

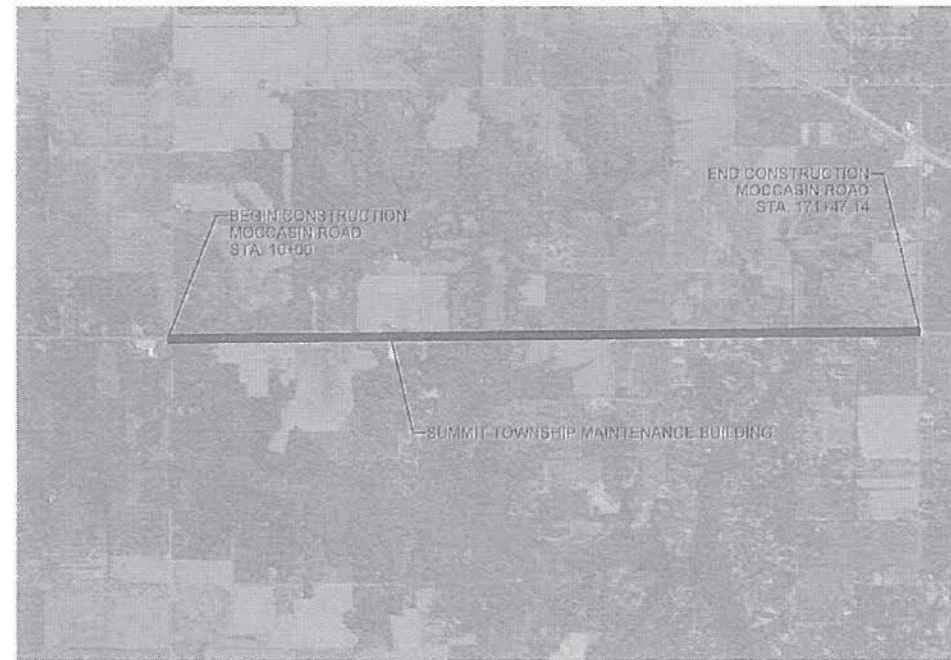
06-16-2023 LETTING ITEM 196

MOCCASIN ROAD INFRASTRUCTURE IMPROVEMENTS

SECTION 11-00094-00-RS
FEDERAL STR FUNDS
EFFINGHAM COUNTY, ILLINOIS
FAS 1706
JOB# C-97-062-22
PROJECT# H3W1(465)

County Engineer - Greg Koester, P.E. - Effingham County

217-342-6550



DESIGN STAGE J.U.L.I.E. DIG NUMBER

DIG # X3470519

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 OR 811

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR MUST CONTACT J.U.L.I.E. 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.



Know what's below.
Call before you dig.

LOCATION MAP
EFFINGHAM COUNTY

LENGTH OF PROJECT
MOCCASIN ROAD = 16,147.14 Feet (3.06 Miles)
TOTAL = 16,147.14 Feet (3.06 Mile)

MOCCASIN ROAD
FUNCTIONAL CLASSIFICATION - ARTERIAL
ADT (2018) - 2000 vpd
DESIGN SPEED - 50 MPH



DATE 04/04/2023

Michael A. Tappendorf
P.E. No. 69073
My License Expires 11-30-23



FIELD BOOK	782 778 828 817.819
DESIGNED BY	CHP
CHECKED BY	XXX JXX
FILE LOCATION	S:\2021\11-00094-00\TITLE SHEET.DWG
DATE	4/4/2023 10:54
ROUTE NO.	FAS 1706
SECTION	11-00094-00-RS
COUNTY	EFFINGHAM
STATE	ILLINOIS
CONTRACT #	465

MILANO & GRUNLOH ENGINEERS, LLC
114 W. WASHINGTON AVE. | PO BOX 687
EFFINGHAM, IL 62401
Phone: (217) 347-7262 | (800) 677-2714
Email: mce@milanoandgrunloh.com
Web: www.milanoandgrunloh.com
Design Firm #184-003198



Released For
Bid 202301
Limited Review

TITLE SHEET
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS

SHEET #
1 OF 40
JOB #
17300 BG4

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS AND STANDARDS
3	GENERAL NOTES AND DETAIL SHEET
4	SUMMARY OF QUANTITIES SHEET
5	TYPICAL SECTION
6	SCHEDULE OF QUANTITIES
7-23	REMOVAL SHEETS
24-40	STREET PLAN SHEETS

STANDARDS

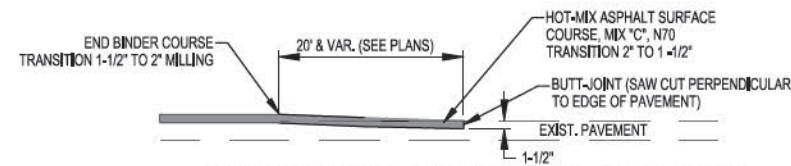
630001-12	Steel Plate Beam Guardrail
630301-09	Shoulder Widening For Type 1 (Special) Guardrail Terminals
631032-10	Traffic Barrier Terminal, Type 6A
701001-02	Off-Road Operations, 2L, 2W, More Than 15' (4.5 m) Away
701006-05	Off-Road Operations, 2L, 2W, 15' (4.5 m) to 24" (600 mm) from Pavement Edge
701301-04	Lane Closure, 2L, 2W, Short Time Operations
701306-04	Lane Closure, 2L, 2W, Slow Moving Operations Day Only, For Speeds ≥ 45 MPH Lane
701311-03	Closure, 2L, 2W, Moving Operations - Day Only
701901-08	Traffic Control Devices
725001-01	Object and Terminal Markers
780001-05	Typical Pavement Markings
BLR 23-4	Traffic Barrier Terminal Type 1

<p>MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgen@engr.com www.mgen.com Design Firm # 184-003108</p>		<p>FIELD BOOK: 782,775,808,817,819</p>	<p>ROUTE NO.: FAS 1706</p>	<p>SECTION: 11-00094 -00-RS</p>	<p>COUNTY: EFFINGHAM</p>	<p>DATE: [REDACTED]</p>
<p>INDEX & STANDARDS SHEET</p>		<p>DRAWN BY: CWP</p>	<p>FILE LOCATION: S:\2017\17300BG4\INDEX & STANDARDS SHEET.DWG</p>	<p>CONTRACT # 65935</p>		
<p>INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS</p>		<p>CHECKED BY: XXX,XXX</p>	<p>SAVE DATE: 4/4/2023 10:54</p>			
<p>SHEET # 2 OF 40</p>						
<p>JOB # 17300 BG4</p>						

- Pavement grades shown are at the top of pavement surfaces, unless otherwise noted in the plans.
- All elevations refer to U.S.G.S. mean sea level datum.
- Any reference to a standard in the plans shall be interpreted to mean the edition as indicated by the sub-number listed on Sheet 2.
- The following rates of application or units were used for calculating plan quantities:
 Aggregate Base & Surface Course: 2.05 TON/CY
 Asphalt Binder or Surface: 2.07 TON/CY
 Bituminous Materials Prime Coat: 0.26 LB/SQ FT
 Bituminous Materials Tack Coat: 2 x 0.025 LB/SQ FT = 0.05 LB/SQ FT
 Traffic Barrier Terminal, Type 1 (Special) Tangent & Flared- The total length of this pay item was used as 50 LF - Each. Field Measurements shall correspond to this length. Contractor to adjust his quantity accordingly.
- Removal of existing terminals shall be included guardrail removal.

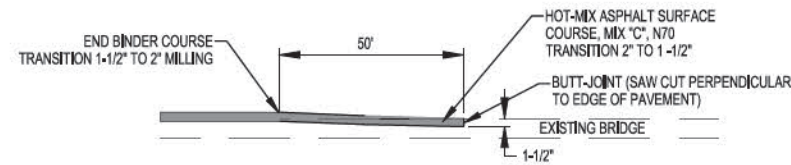
THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT

LOCATIONS	MIXTURE USE(S)	PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	MIXTURE WEIGHT	QUALITY MANAGEMENT PROGRAM
MAINLINE	HMA SURFACE COURSE, IL-9.5, MIX "C", N70 (1.5")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	N70	QC/QA
MAINLINE	HMA BINDER COURSE, IL-19.0, N70 (2.5")	PG 64-23	4.0% @ N=70	IL - 19.0	N/A	N71	QC/QA
INCIDENTAL	HMA SURFACE COURSE, IL-9.5, MIX "C", N70	PG 64-24	4.0% @ N=72	IL - 9.7	MIXTURE C	N72	QC/QA



RESURFACING DETAIL - END BUTT JOINT
(TYPICAL EACH END OF PROJECT)

NOTE: AGGREGATE DRIVEWAYS SHALL ALSO MEET THIS CONCEPT.
AGGREGATE SHALL REPLACE HMA FROM EOP TO TIE-IN POINT.



RESURFACING DETAIL - END BUTT JOINT
(TYPICAL EACH END OF BRIDGE)
STATION 80+30 TO 80+91 ±

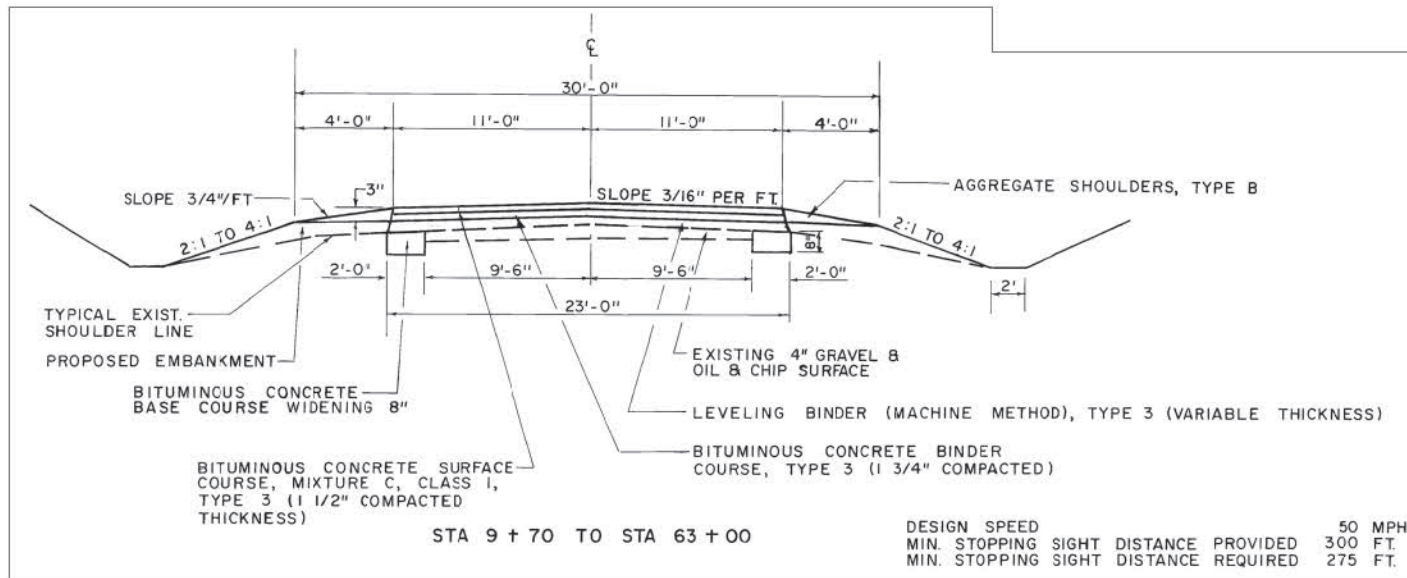
LEGEND	
○	IRON PIN FOUND
○ 1/4	1/4" IRON PIN FOUND
○ IP	IRON PIPE FOUND
○ N&W	NAIL & WASHER FOUND
○ N	NAIL FOUND
○ PK	PK NAIL FOUND
○ RR	RAILROAD SPIKE FOUND
○ T	"T" FENCE POST FOUND
○ X	CHISELED "X" IN CONCRETE FOUND
○ DH	DRILLED HOLE IN CONCRETE FOUND
⊙	SURVEY DISC FOUND
⊕	STONE FOUND
☀	TREE (DECIDUOUS)
☀*	TREE (EVERGREEN)
⊕	FIRE HYDRANT
⊕	WATER METER
— v —	WATER MAIN (EXISTING)
— w —	WATER SERVICE LINE (EXISTING)
⊗	VALVE (GAS OR WATER)
⊕	GAS METER
— g —	GAS MAIN (EXISTING)
— g —	GAS SERVICE LINE (EXISTING)
⊕ C	CABLE TV PEDESTAL
— CT —	UNDERGROUND CABLE TV (EXISTING)
⊕ T	TELEPHONE PEDESTAL
⊕ T	TELEPHONE MANHOLE
— T —	TELEPHONE CABLE (EXISTING)
— + —	TELEPHONE SERVICE WIRE (EXISTING)
⊕	POWER POLE
⊕	POWER POLE w/LIGHT
⊕	GUY ANCHOR
⊕	LIGHTPOLE (EXISTING)
⊕	SIDEWALK LIGHT (EXISTING)
⊕ E	ELECTRIC PEDESTAL
— DHE —	OVERHEAD ELECTRIC (EXISTING)
— E —	UNDERGROUND ELECTRIC (EXISTING)
L/S	LANDSCAPING
+	STREET SIGN (EXISTING)
⊕	SIGN (EXISTING)
⊕	FENCE POST
— * —	FENCE

DATE	DESIGN/ISSUED
BY	
COUNTY	EFFINGHAM
SECTION	11-00084
ROUTE NO.	FAS 1706
FIELD NO.	XXX XXX
CONTRACT #	66935
FIELD BOOK	782.775.808.817.819
DRAWN BY	CMP
CHECKED BY	S2071730864/ENGINEER
FILE LOCATION	44/2023 10/24
SAVE DATE	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 887 EFFINGHAM, IL 62401 Phone: (217) 947-7262 (800) 677-2714 Email: mgen@milanoandgrunloh.com Web: www.milanoandgrunloh.com Design Firm #164-003108	
GENERAL NOTES & DETAILS INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS	
SHEET #	3 OF 40
JOB #	17300 BG4

SUMMARY OF QUANTITIES			
ITEM No.	ITEM	UNIT	QUANTITY
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	57
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27,014
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	5,688
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	3,557
40600982	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	SQ YD	2,198
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	443
44000157	HOT MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	38,691
48101200	AGGREGATE SHOULDERS, TYPE B	TON	1,509
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	3,199
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	15
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1
63200310	GUARDRAIL REMOVAL	FOOT	3,054
67100100	MOBILIZATION	L SUM	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,612
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	532
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	16
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	33,230
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	56
X0300037	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	38,691
X4810200	AGGREGATE SHOULDER REMOVAL	CU YD	376
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
* Z0053210	REPAIR TRAFFIC TERMINAL BARRIER, TYPE 6A	EACH	3
Z0070202	SURVEY MARKER VAULT	EACH	4

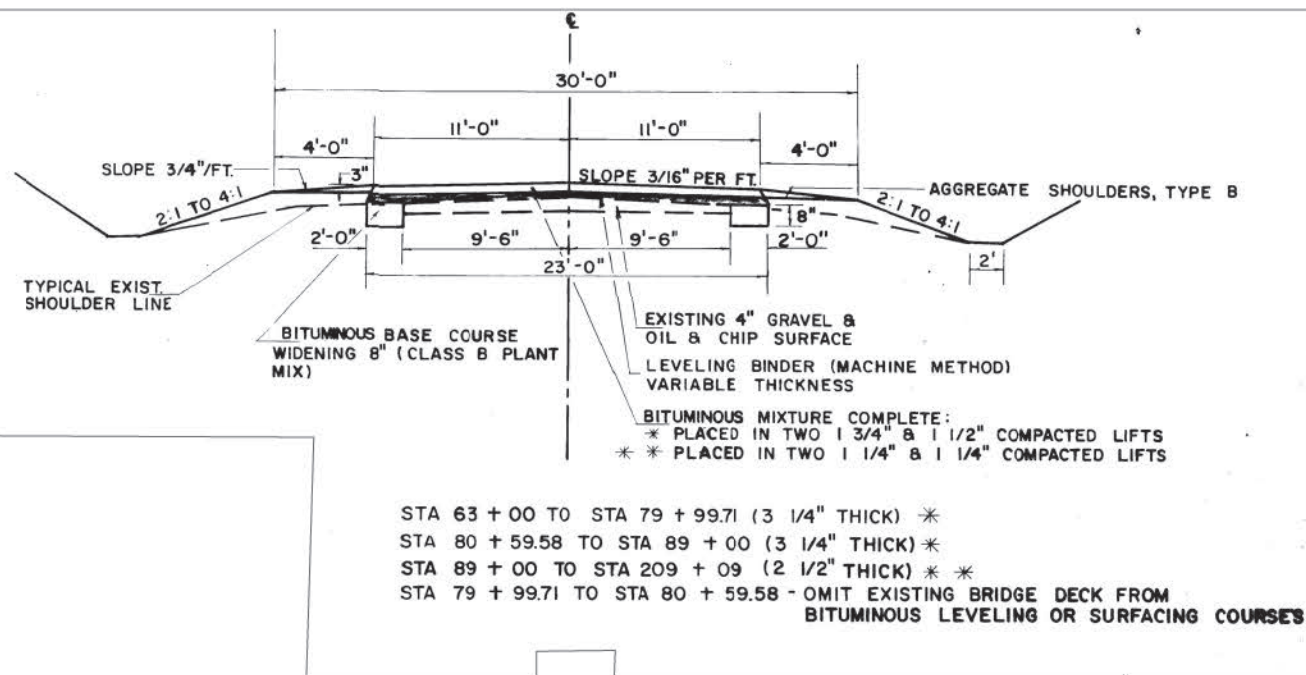
* SPECIALTY ITEMS

SUMMARY OF QUANTITIES		BY DATE DESIGNED/ISSUED	
INFRASTRUCTURE IMPROVEMENTS			
MOCCASIN ROAD			
EFFINGHAM COUNTY, ILLINOIS			
SHEET #		COUNTY	
4 OF 40		EFFINGHAM	
JOB #		SECTION	
17300 BG4		11-0084	
		FAS	
		1706	
		FEED NUMBER NO. 7	
		E.L.F.#8	
		CONTRACT #66935	
FIELD BOOK		ROUTE NO.	
782.775.808.817.819		FAS	
DRAWN BY		1706	
CMP		FEED NUMBER NO. 7	
CHECKED BY		FILE #/PROJECT	
XXX.XXX		S12071730854/NO TITLE SHEET/DWG	
SAVE DATE		4/4/2023 10:54	
<p>MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 887 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgen@milanoandgrunloh.com Web: www.milanoandgrunloh.com Design Firm #164-003108</p>			



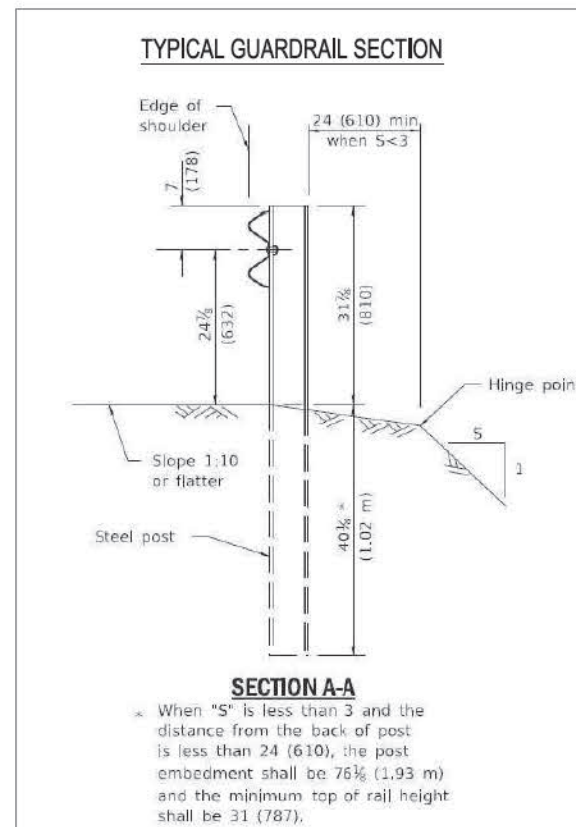
EXISTING TYPICAL - MOCCASIN ROAD (TAKEN FROM PREVIOUS PLANS)
STA. 9+70 - 63+00

DESIGN SPEED 50 MPH
MIN. STOPPING SIGHT DISTANCE PROVIDED 300 FT.
MIN. STOPPING SIGHT DISTANCE REQUIRED 275 FT.



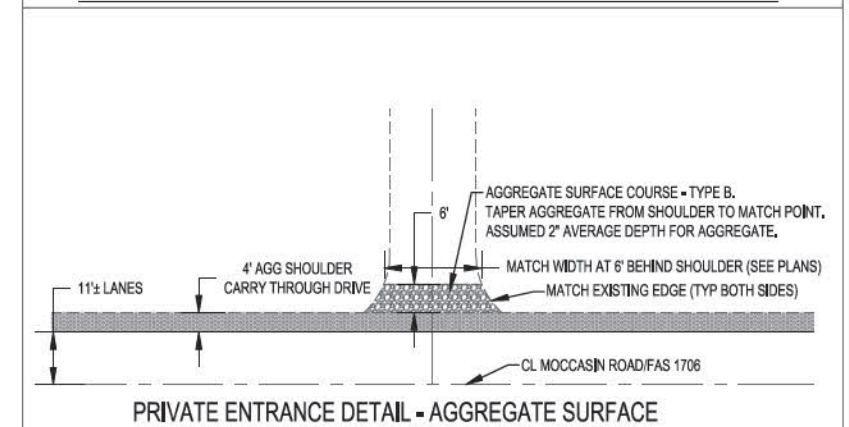
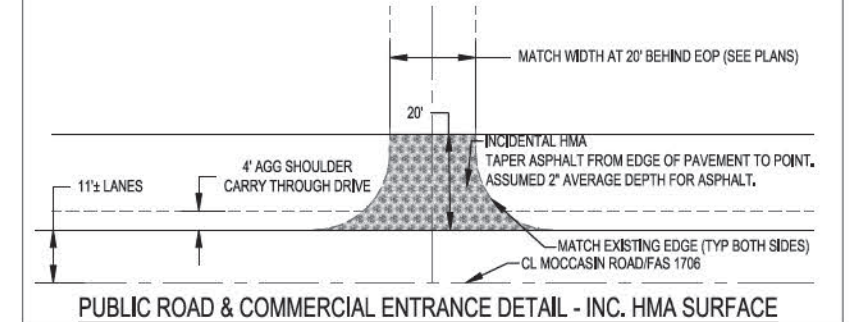
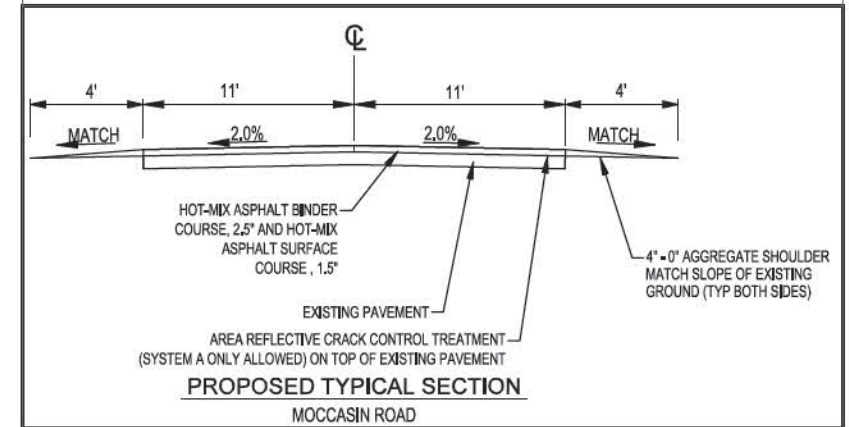
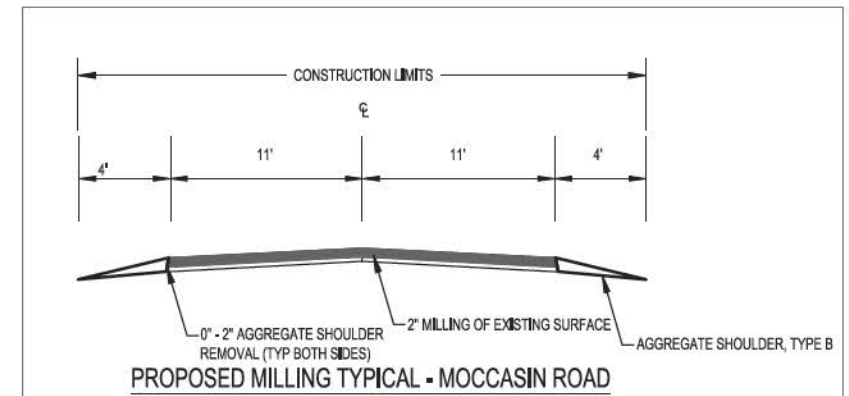
EXISTING TYPICAL - MOCCASIN ROAD (TAKEN FROM PREVIOUS PLANS)
STA. 63+00 - 209+09

STA 63 + 00 TO STA 79 + 99.71 (3 1/4" THICK) *
STA 80 + 59.58 TO STA 89 + 00 (3 1/4" THICK) *
STA 89 + 00 TO STA 209 + 09 (2 1/2" THICK) *
STA 79 + 99.71 TO STA 80 + 59.58 - OMIT EXISTING BRIDGE DECK FROM BITUMINOUS LEVELING OR SURFACING COURSES



SECTION A-A

* When "S" is less than 3 and the distance from the back of post is less than 24 (610), the post embedment shall be 76 3/8 (1.93 m) and the minimum top of rail height shall be 31 (787).



BY	DATE	REVISION/ISSUED
COUNTY	EFFINGHAM	
SECTION	11-00084	
ROUTE NO.	FAS 1706	
FILE NO.	XXX,XXX	
FILE LOCATION	S:\2017\17300BG4\DWG\TYPICAL.DWG	
SAVE DATE	4/2/23 11:04	
FIELD BOOK	782.775.808.817.819	
DRAWN BY	CMP	
CHECKED BY	XXX,XXX	
MILANO & GRUNLOH ENGINEERS, LLC	114 W. WASHINGTON AVE. PO BOX 897	
EFFINGHAM, IL 62001	Phone: (217) 947-7262 (800) 677-2714	
	Email: mgeengineers@mgeengineers.com	
	Web: www.mgeengineers.com	
	Design Firm # 181-003108	
TYPICAL SHEET	INFRASTRUCTURE IMPROVEMENTS	
	MOCCASIN ROAD	
	EFFINGHAM COUNTY, ILLINOIS	
SHEET #	5 OF 40	
JOB #	17300 BG4	

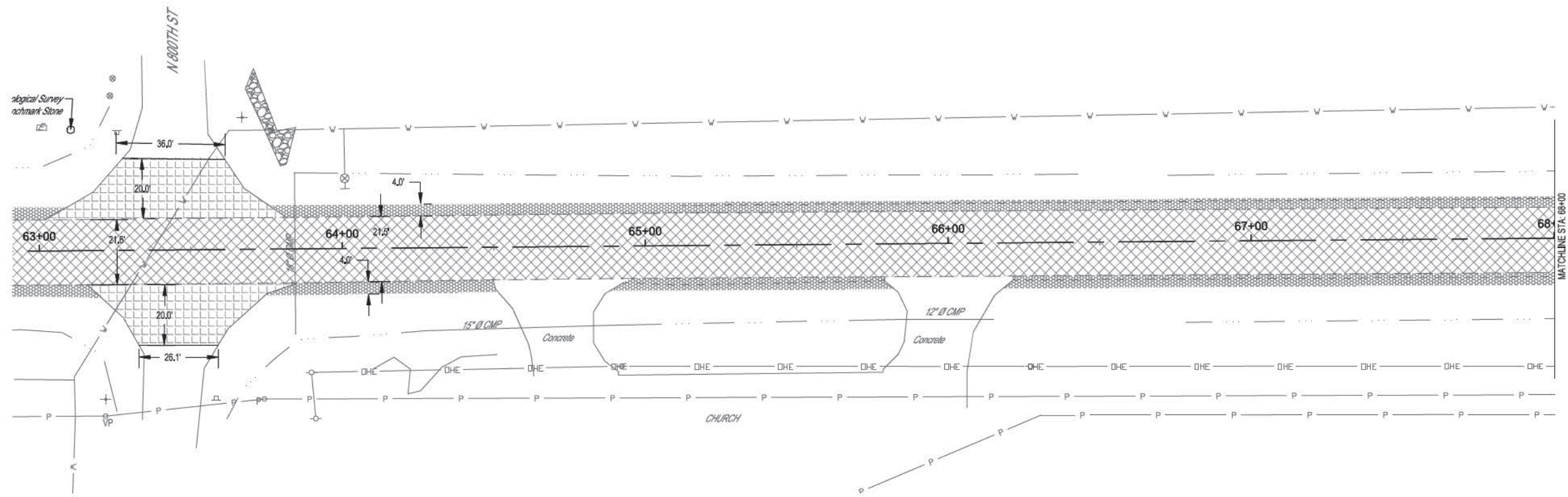
STREET											
			BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	HOT MIX ASPHALT SURFACE REMOVAL, 2"	AGGREGATE SHOULDERS, TYPE B	AREA REFLECTIVE CRACK CONTROL TREATMENT	AGGREGATE SHOULDER REMOVAL	SURVEY MARKER VAULT
			40600290	40603085	40604052	40600982	44000157	48101200	X0300037	X4810200	Z0070202
STATION	STATION	OFFSET	POUND	TON	TON	SQ YD	SQ YD	TON	SQ YD	CU YD	EACH
10+00.0	80+29.84		11,452	2,494	1,544		16,966		16,966		
80+91.13	171+47.14		14,665	3,194	1,977		21,725		21,725		
10+00.00	10+21.38	RT						2		1	
10+00.00	10+26.67	LT						2		1	
10+00.00	10+59.16				5	49					
10+30.81											1
10+41.47	63+20.81	RT						260		64	
10+41.21	43+57.53	LT						155		38	
36+87.05											1
44+12.93	46+87.45	LT						15		4	
47+27.51	63+08.66	LT						82		20	
63+43.15											1
63+74.62	64+51.45	RT						4		1	
63+75.07	79+57.33	LT						72		18	
64+49.75	64+95.10	RT									
64+87.61	65+82.15	RT						5		2	
66+17.94	79+56.23	RT						66		17	
79+79.87	80+29.87				12	120					
80+91.27	81+41.27				12	120					
81+60.37	90+16.63	LT						42		11	
81+60.37	83+74.41	RT						11		3	
84+32.61	103+30.55	RT						94		23	
90+70.56	137+62.09	LT						224		55	
103+90.09	117+29.19	RT						67		17	
117+52.22											1
117+91.90	123+97.99	RT						30		8	
124+35.44	132+52.09	RT						40		10	
133+08.91	137+62.73	RT						22		6	
137+91.53	144+75.03	LT						32		8	
138+15.83	153+70.51	RT						76		19	
145+45.30	170+78.58	LT						121		30	
154+32.26	170+84.00	RT						82		20	
170+51.23	171+47.18				7	71					
170+96.67											1
171+06.10	171+47.14	RT						3		1	
171+09.03	171+47.14	LT						2		1	
TOTALS			26,117.0	5,688.0	3,557.0	360.0	38,691.0	1,509.0	38,691.0	376.0	4.0

GUARDRAIL									
				STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL REMOVAL	TERMINAL MARKER - DIRECT APPLIED	REPAIR TRAFFIC TERMINAL BARRIER, TYPE 6A
				63000003	63100167	63100169	63200310	72501000	Z0053210
STATION	OFFSET	STATION	OFFSET	FOOT	EACH	EACH	FOOT	EACH	EACH
74+51.74	RT	80+29.72	RT	542	1		502	1	1
76+26.30	LT	80+29.90	LT	367	1		427	1	1
80+91.39	LT	83+05.30	LT	276	1		190	1	1
80+91.40	RT	82+64.29	RT	122	1		190	1	
139+92.07	RT	143+49.92	RT	333	2		328	2	
139+82.02	LT	143+01.56	LT	288	2		308	2	
146+17.45	RT	150+48.54	RT	546	2		404	2	
146+51.18	LT	150+38.05	LT	396	2		329	2	
152+79.41	LT	154+66.39	LT	167	2		197	2	
151+68.60	RT	153+70.65	RT	162	1	1	179	2	
TOTALS				3,199.0	15.0	1.0	3,054.0	16.0	3.0

ENTRANCE & SIDE ROAD SCHEDULE											
				AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT	INCIDENTAL HOT-MIX ASPHALT SURFACING				
				40200800	40600290	40600982	40800050				
STATION	STATION	TYPE	OFFSET	TON	POUND	SQ YD	TON				
10+00.00	10+59.72	ROAD	LT		26	57	13				
10+00.00	10+67.14	ROAD	RT		38	83	19				
16+31.17	16+74.84	PE	RT	3							
41+04.70	41+35.30	PE	LT	2							
43+63.28	44+08.92	PE	LT	3							
46+63.35	46+67.96	PE	LT	1							
46+90.79	47+21.82	PE	LT	2							
47+86.30	48+24.75	PE	LT	3							
49+90.06	50+19.43	PE	RT	2							
51+09.62	51+45.16	PE	RT	3							
56+94.26	57+51.27	PE	RT		27		7				
59+72.05	59+93.39	PE	LT	2							
63+23.92	63+69.66	ROAD	RT		54	118	27				
63+24.97	63+63.57	ROAD	LT		53	117	27				
64+49.75	64+94.40	PE	RT		18		5				
65+78.87	66+21.33	PE	RT		18		5				
71+31.17	72+00.55	PE	RT	5							
73+11.78	73+26.85	PE	LT	1							
75+20.61	75+43.83	PE	LT	2							
66+17.94	79+56.23	PE	RT	1							
79+79.87	80+29.87	ROAD			54	120	28				
80+91.27	81+41.27	ROAD			54	120	28				
83+67.99	84+39.76	ROAD	RT		43	95	22				
90+10.17	90+76.71	ROAD	LT		45	99	23				
93+05.37	93+32.04	PE	RT	2							
103+30.55	103+95.55	ROAD	RT		41	91	21				
104+00.77	104+27.27	PE	LT	2							
117+24.33	117+97.98	ROAD	RT		49	107	25				
117+36.89	117+70.90	PE	LT	2							
123+93.45	124+36.91	ROAD	RT		26	57	13				
124+28.31	124+48.97	PE	LT	2							
132+48.93	133+11.79	ROAD	RT		44	96	22				
137+62.09	137+92.91	ROAD	LT		19	41	10				
137+58.64	138+23.30	ROAD	RT		41	91	21				
144+17.84	144+56.51	PE	RT	2							
144+73.50	145+45.30	ROAD	LT		50	110	26				
150+37.47	151+01.19	PE	LT	7							
153+62.40	154+42.94	ROAD	RT		47	104	24				
154+68.62	154+95.93	PE	LT	2							
155+86.79	156+17.38	PE	RT	2							
159+46.31	159+91.60	PE	RT	3							
161+49.97	161+94.54	PE	RT	3							
170+25.36	171+36.80	ROAD	LT		105	233	54				
170+51.23	171+34.18	ROAD	RT		45	99	23				
TOTALS				57.0	897.0	1,838.0	443.0				

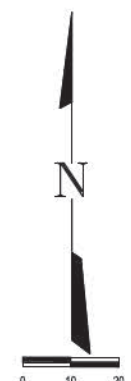
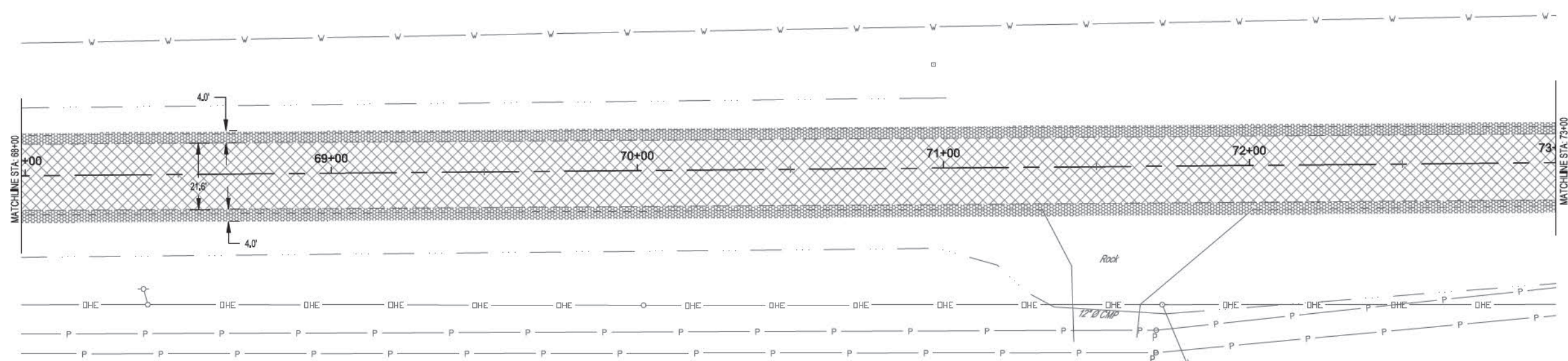
PAVEMENT MARKING						
		PAINT PAVEMENT MARKING - LINE 4" (YELLOW)	PAINT PAVEMENT MARKING - LINE 4" (WHITE)	PAINT PAVEMENT MARKING - LINE 24"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
		78001110	78001110	78001180	70300100	70300150
LOCATION	OFFSET	FOOT	FOOT	FOOT	FOOT	SQ FT
10+00 - 171+47.14		10,202	23,028		1612	532
170+63.12	RT			14		
170+95.72	RT			14		
170+97.58	LT			14		
171+33.91	LT			14		
TOTAL		33,230		56	1612	532

BY	DATE	REVISED/ISSUED
COUNTY	EFFINGHAM	
SECTION	11-00084	
ROUTE NO.	FAS 1706	
FILE # PROJECT	3/20/17/1730654/06/01/17 SHEETING	CONTRACT #6695
FIELD BOOK	782.775.808.817.819	
DRAWN BY	CMP	
CHECKED BY	XXX.XXX	
FILE LOCATION	S:\2017\1730654\06\01\17 SHEETING	
SAVE DATE	4/2/23 10:54	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 687 EFFINGHAM, IL 62401 Phone: (217) 947-7262 (800) 677-2714 Email: mgenr@mgengr.com Website: www.mgenr.com Design Firm #164-003108		
INDEX SHEET INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS		
SHEET # 6 OF 40		
JOB # 17300 BG4		



LEGEND

	HOT-MIX ASPHALT REMOVAL, 2"
	AGGREGATE SHOULDER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

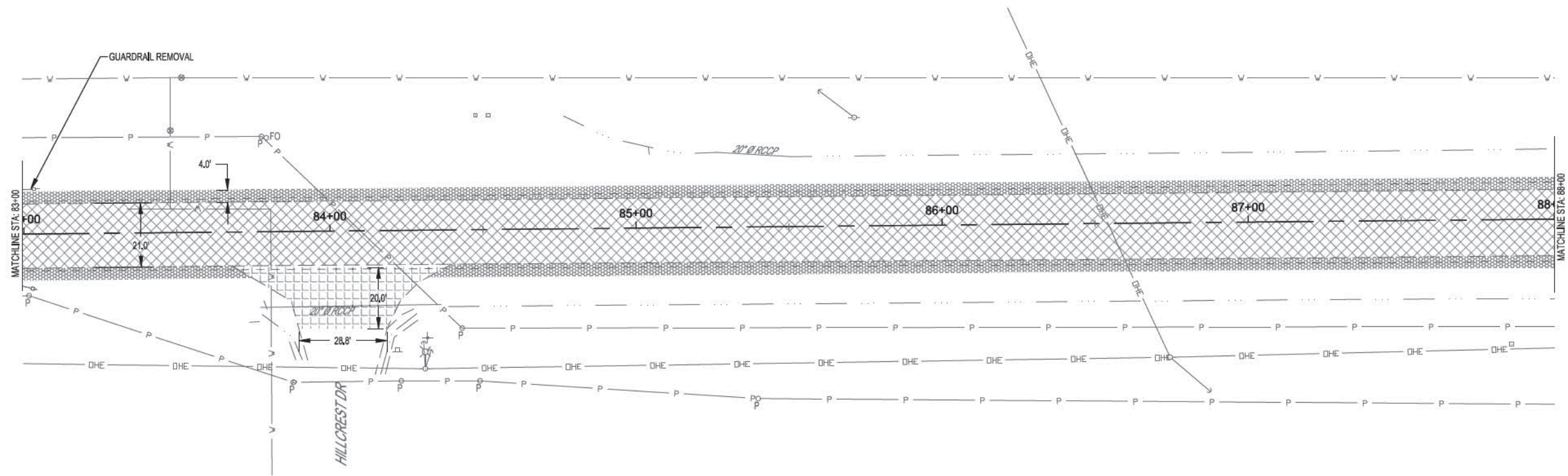


BY	DATE	DESIGN ISSUED
COUNTY	EFFINGHAM	
SECTION	11-0004	
ROUTE NO.	FAS 1706	
FILE # PROJECT	S20717306SUNWERSROAD/ADJWG	
FIELD BOOK	782.775.809.817.819	
DRAWN BY	CMP	
CHECKED BY	XXX.XXX	
FILE LOCATION	S20717306SUNWERSROAD/ADJWG	
SAVE DATE	4/2/23 10:01	
CONTRACT #	#6935	

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 114 W. WASHINGTON AVE. | PO BOX 897
 EFFINGHAM, IL 62401
 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108

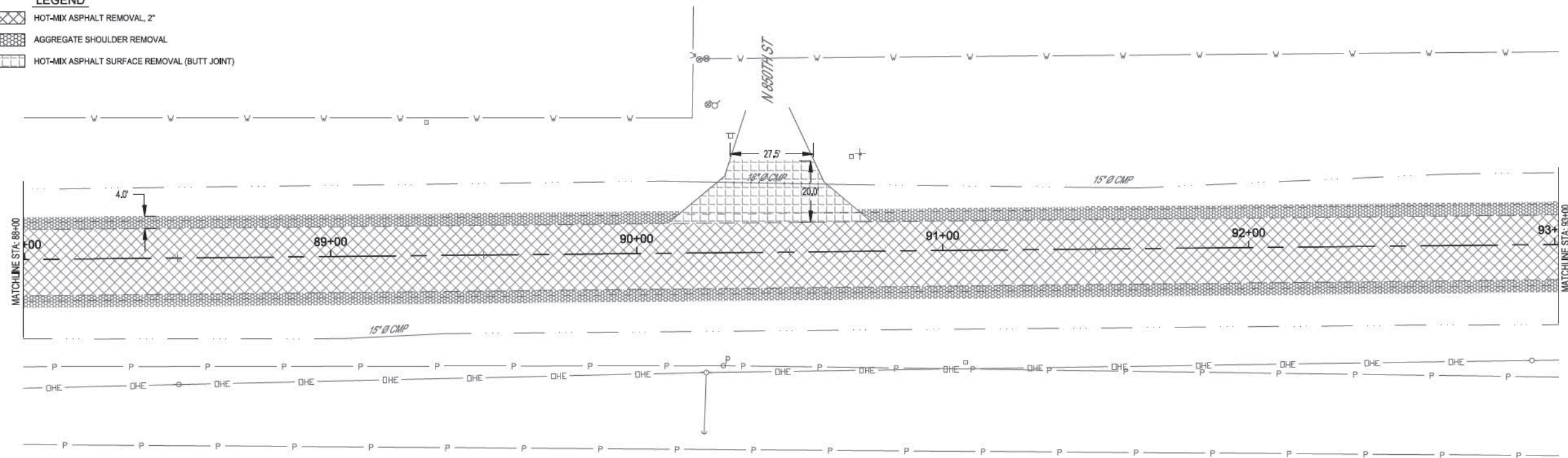


REMOVAL PLAN
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS
SHEET #
13 OF 40
JOB #
17300 BG4



LEGEND

- HOT-MIX ASPHALT REMOVAL, 2"
- AGGREGATE SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

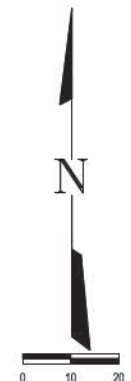
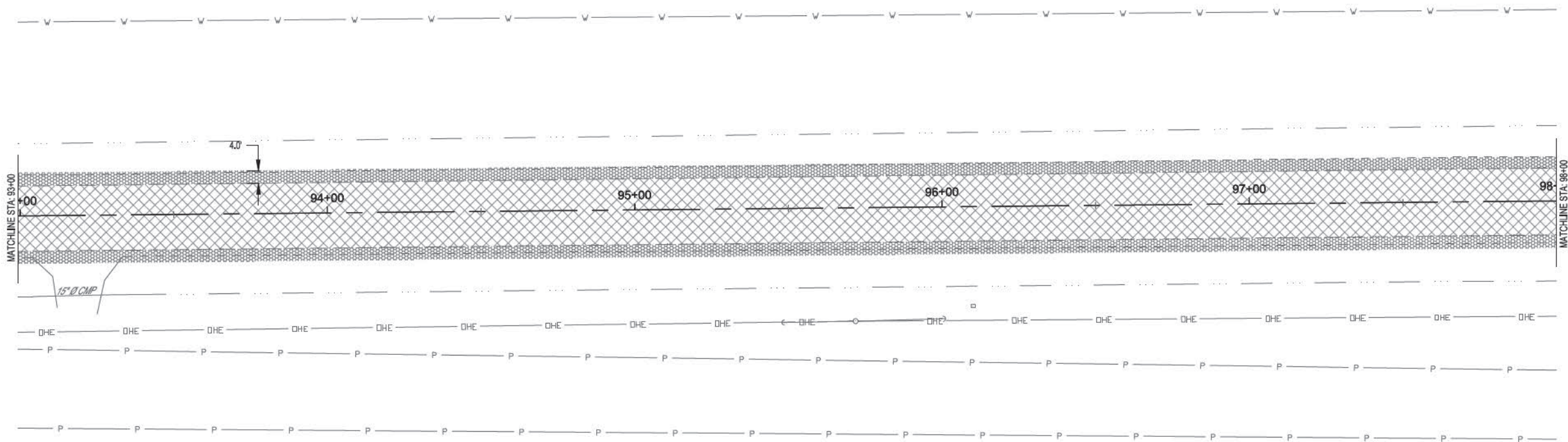


MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
 EFFINGHAM, IL 62001
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 Web: www.milanoandgrunloh.com
 Design Firm # 181-003108

REMOVAL PLAN
 INFRASTRUCTURE IMPROVEMENTS
 MOCCASIN ROAD
 EFFINGHAM COUNTY, ILLINOIS

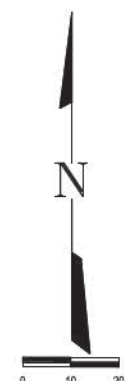
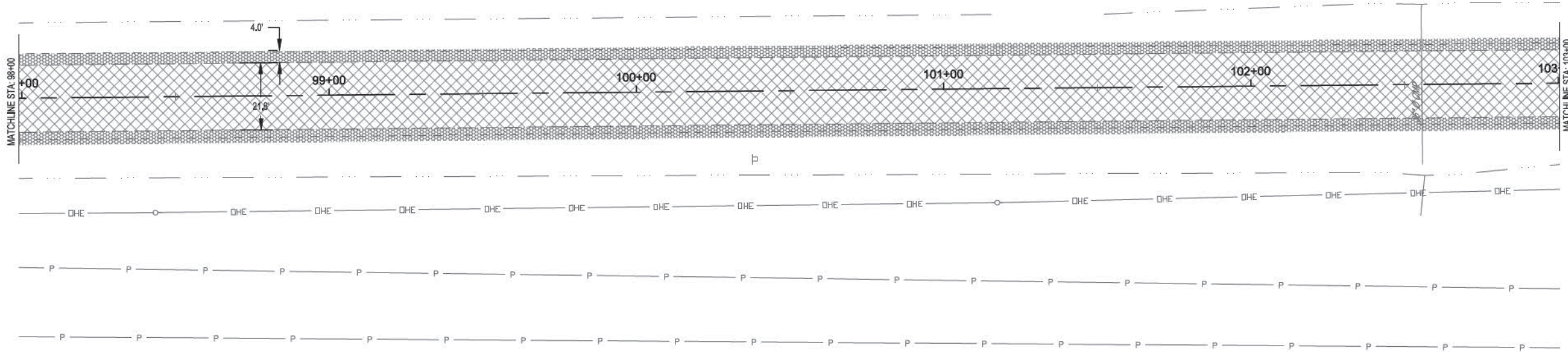
SHEET #
 15 OF 40
 JOB #
 17300 BG4

FIELD BOOK	782.775.800.817.819	ROUTE NO.	FAS 1706	SECTION	11-0004-00RS	COUNTY	EFFINGHAM
DRAWN BY	CMP	FILE LOCATION	S:\2017\17300\DWG\REMOVAL\DWG	CONTRACT	#6995	BY	DATE
CHECKED BY	XXX.XXX	DATE	4/2/23 10:01	PROJECT		DATE	



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- HOT-MIX ASPHALT REMOVAL, 2"
- AGGREGATE SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)

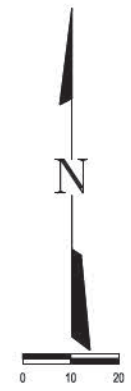
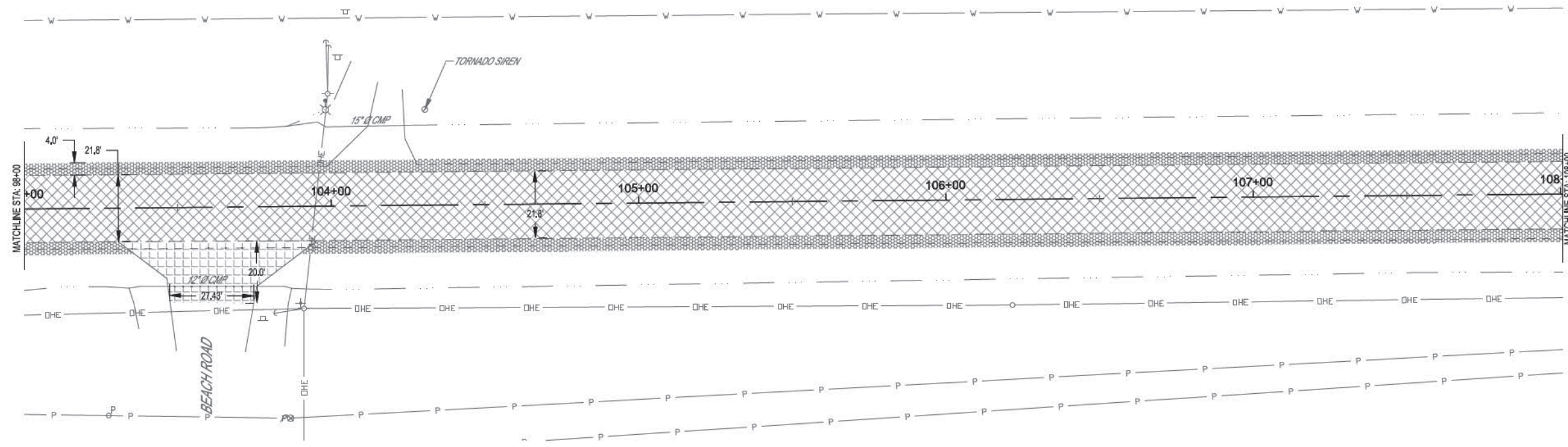


BY	DATE	REVISION/ISSUED

SECTION	ROUTE NO.	FIELD BOOK
11-0084	FAS 1706	782.775.809.817.819
PROJECT	CHECKED BY	DRAWN BY
CONTRACT #6995	XXX.XXX	CMP
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MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
 EFFINGHAM, IL 62401
 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108

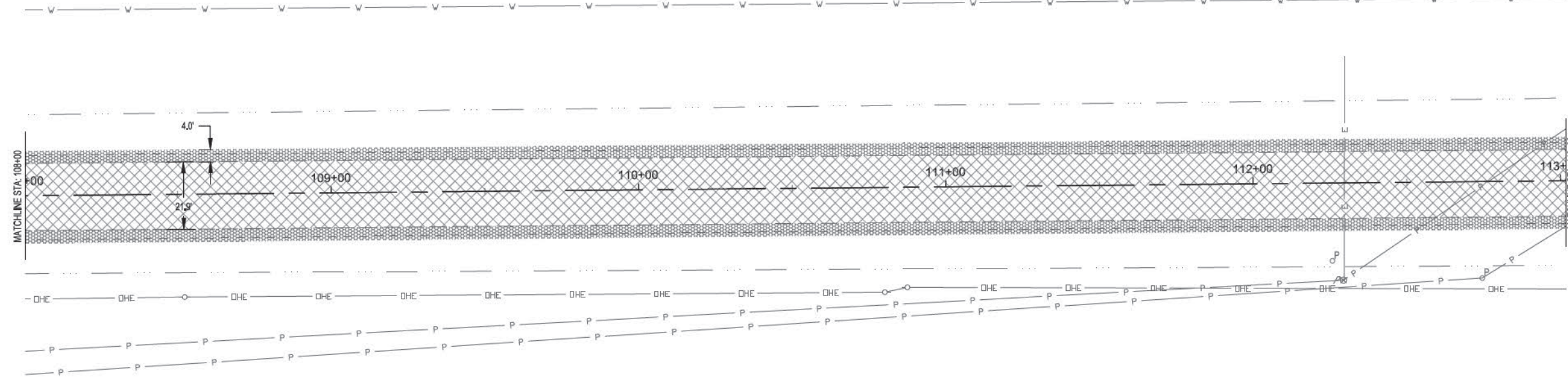
REMOVAL PLAN	SHEET #
INFRASTRUCTURE IMPROVEMENTS	16 OF 40
MOCCASIN ROAD	JOB #
EFFINGHAM COUNTY, ILLINOIS	17300 BG4



BY	DATE	REVISION/ISSUED
ROUTE NO.	FAS 1706	SECTION 11-00084
FILE NO.	XXX.XXX	CONTRACT #66935
FIELD BOOK	782.775.809.817.819	
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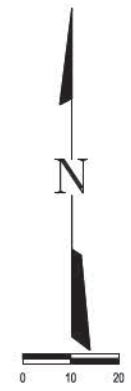
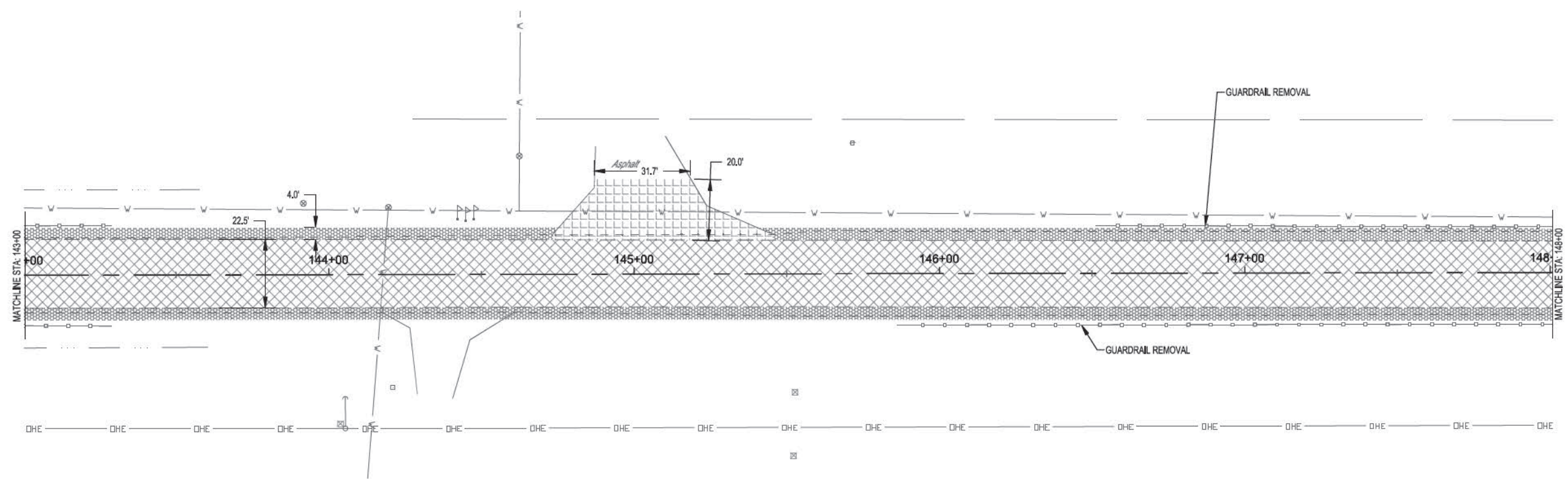
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- HOT-MIX ASPHALT REMOVAL, 2"
- AGGREGATE SHOULDER REMOVAL
- HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)



MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
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 Web: www.mgeengineers.com
 Design Firm # 181-003108

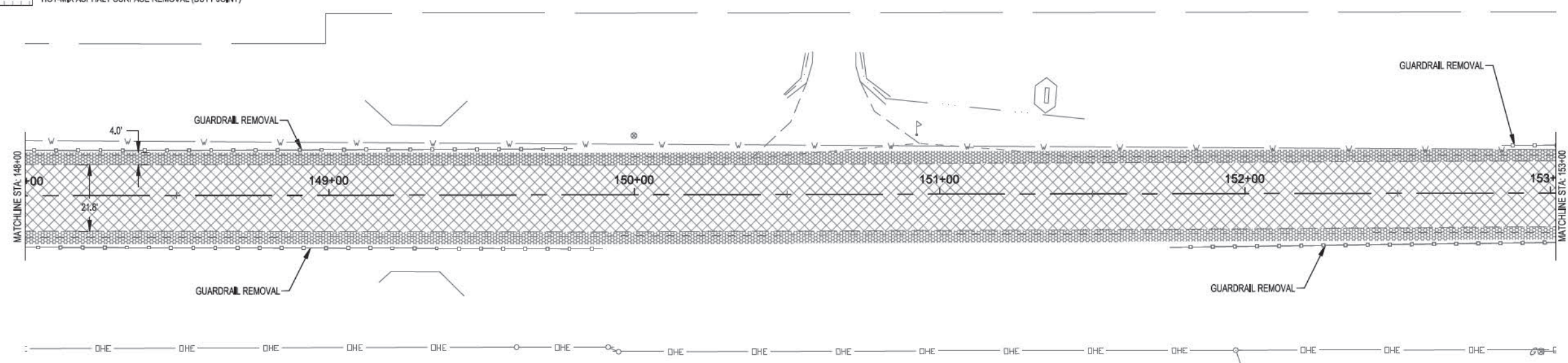
REMOVAL PLAN
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS
SHEET #
17 OF 40
JOB #
17300 BG4



BY	DATE	REVISION/ISSUED
ROUTE NO.	FAS 1706	SECTION 11-0084 -0HS
FILE NO.	XXX,XXX	PROJECT # S201717300BG4
FIELD BOOK	782.775.809.817.819	CONTRACT #69935
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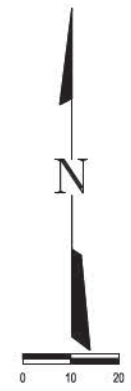
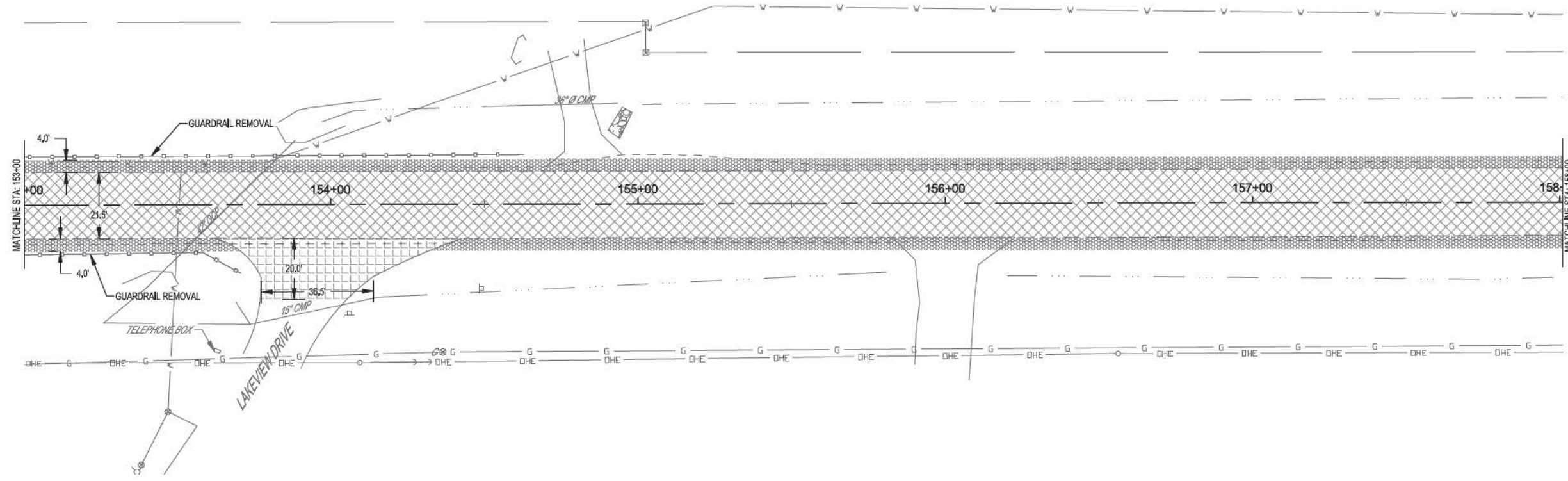
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	HOT-MIX ASPHALT REMOVAL, 2"
	AGGREGATE SHOULDER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)



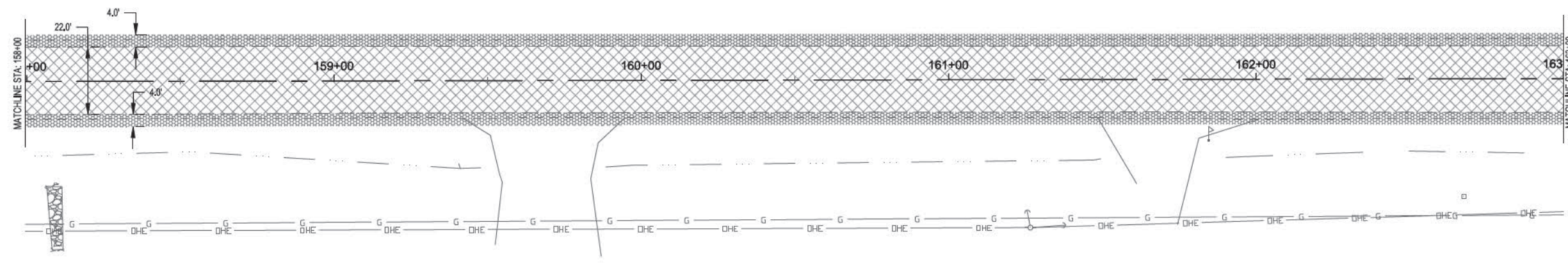
MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
 EFFINGHAM, IL 62401
 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108

REMOVAL PLAN
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS
SHEET # 21 OF 40
JOB # 17300 BG4



LEGEND

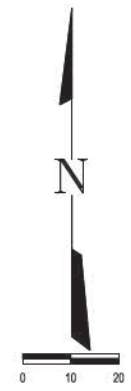
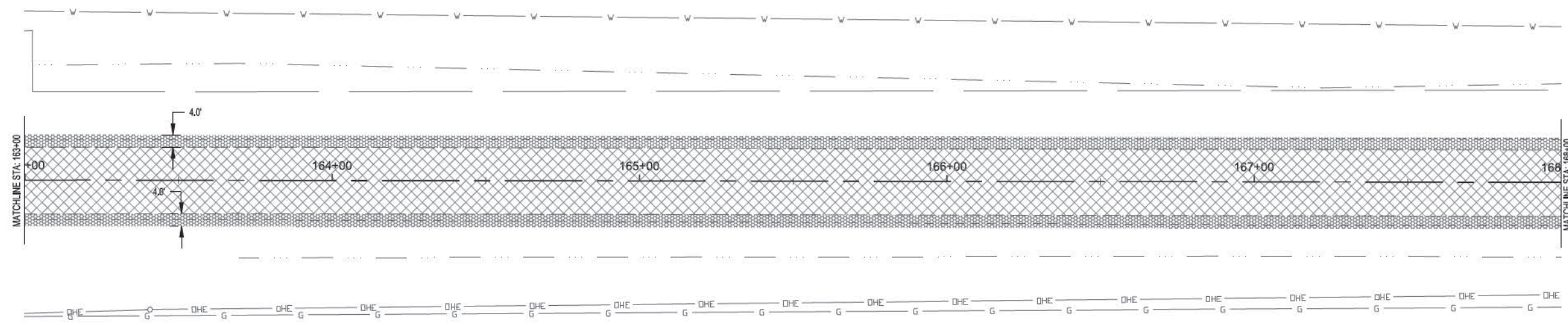
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	AGGREGATE SHOULDER REMOVAL
	HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)



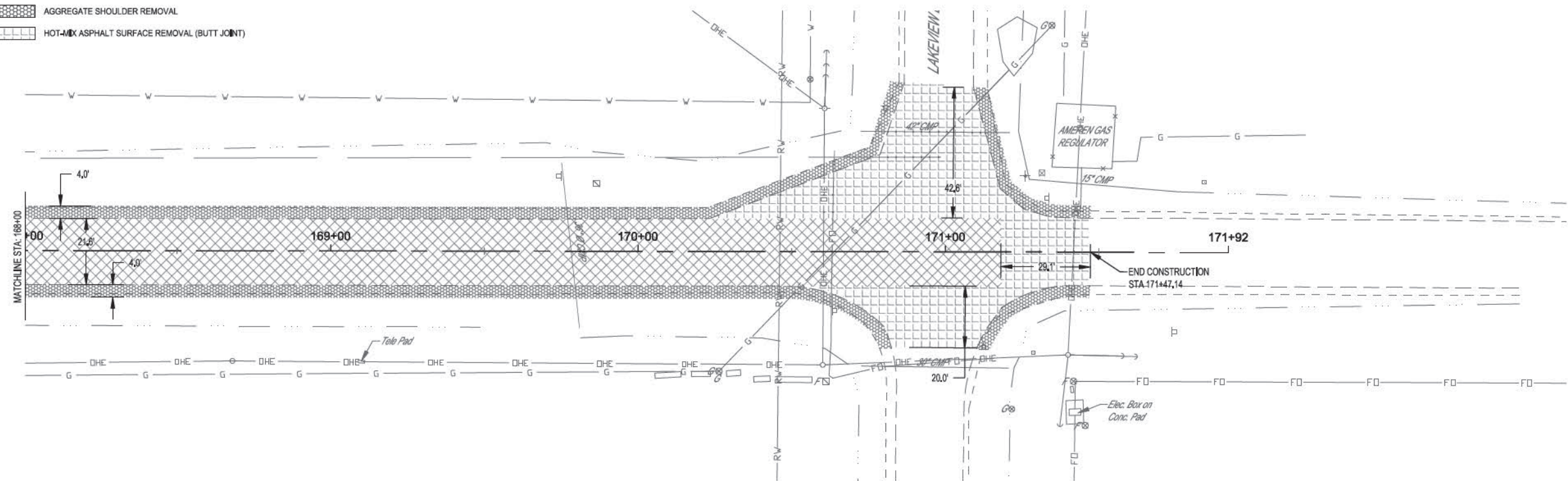
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ROUTE NO.	XXX XXX	FEED NUMBER NO.7
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FIELD BOOK	782.775.809.817.819	
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CHECKED BY	XXX XXX	
SAVE DATE	4/2/23 10:01	

MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
 EFFINGHAM, IL 62001
 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108

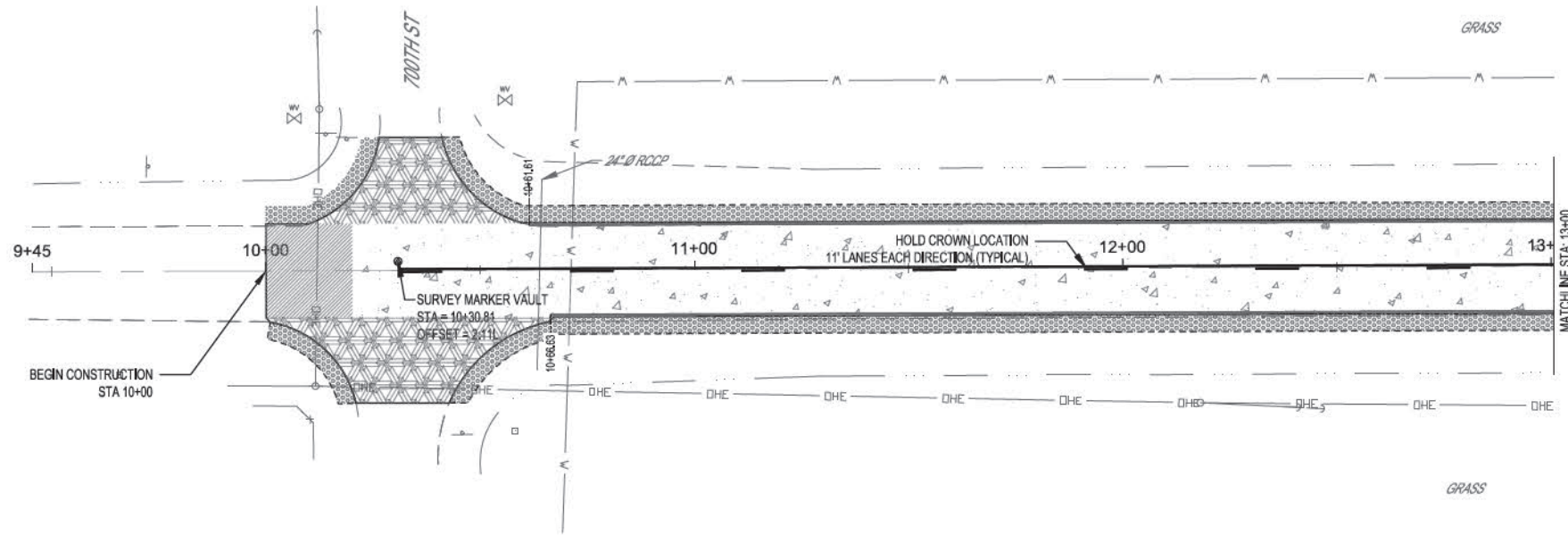
REMOVAL PLAN
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS
SHEET #
22 OF 40
JOB #
17300 BG4








- LEGEND**
- HOT-MIX ASPHALT REMOVAL, 2"
 - AGGREGATE SHOULDER REMOVAL
 - HOT-MIX ASPHALT SURFACE REMOVAL (BUTT JOINT)



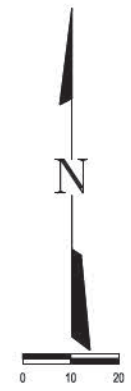
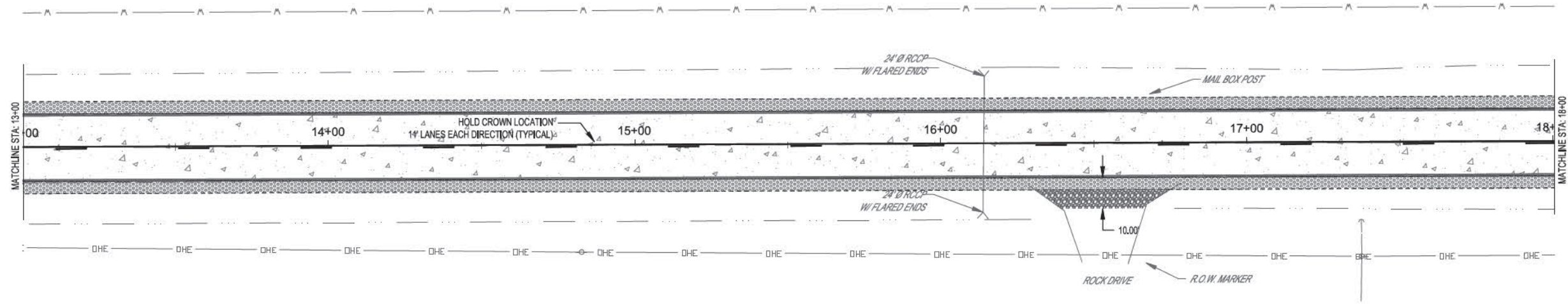
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PROJECT INFORMATION		COUNTY	EFFINGHAM	
SECTION		ROUTE NO.	FAS 1706	
ROUTE NO.		FED. ROADERS NO. 7	XXX XXX	
FIELD BOOK		782.775.800.817.819		
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SAVE DATE		4/4/2023 10:01		
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108				
REMOVAL PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS				
SHEET #				
23 OF 40				
JOB #				
17300 BG4				

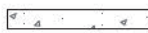





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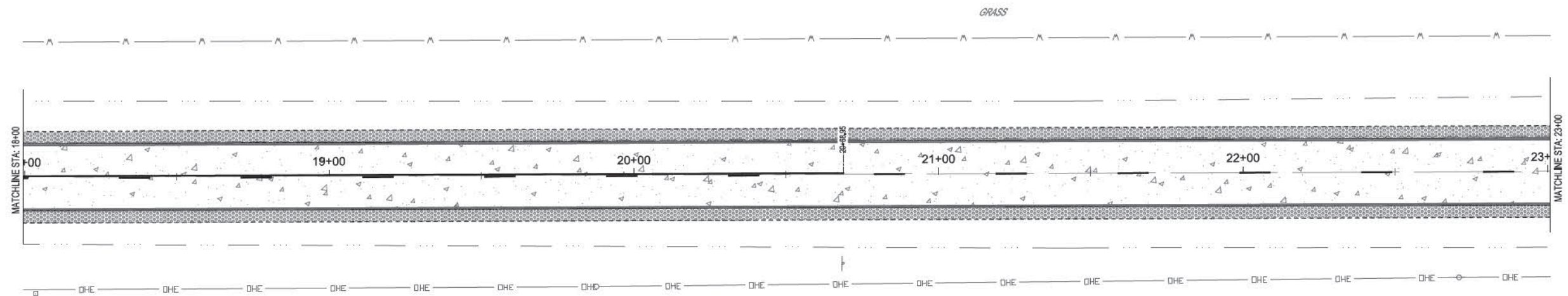
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
-  AGGREGATE SHOULDER, TYPE B, 4"
-  INCIDENTAL HOT MIX ASPHALT
-  AGGREGATE SURFACE COURSE, TYPE B
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 1.5"





STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS	SHEET # 24 OF 40	JOB # 17300 BG4
	MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108	
FIELD BOOK 782.775.809.817.819	DRAWN BY CMP	DATE 4/4/2023 10:43
ROUTE NO. FAS 1706	SECTION 11-00084 -00RS	COUNTY EFFINGHAM
FILE LOCATION S:\2017\17300\BG4\MOCCASIN STREET.DWG	CHECKED BY XXX.XXX	CONTRACT # #6935
BY	DATE	REVISION/ISSUED



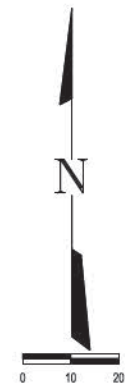
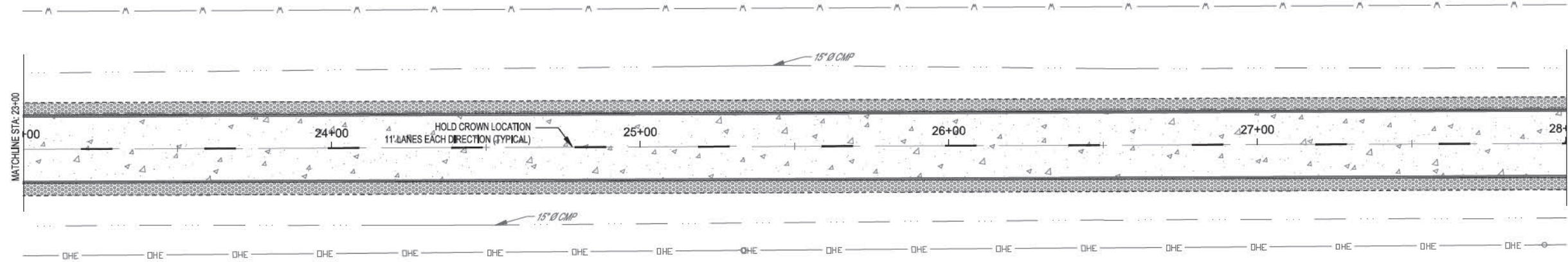
- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 -  AGGREGATE SHOULDER, TYPE A, 4'
 -  INCIDENTAL HOT MIX ASPHALT
 -  AGGREGATE SURFACE COURSE, TYPE B





DATE	DESIGN ISSUED
BY	
COUNTY	EFFINGHAM
SECTION	11-0084
ROUTE NO.	FAS 1706
FILE NO.	1706
FILE LOCATION	S:\2017\17300\BG4\DWG\STREET PLAN
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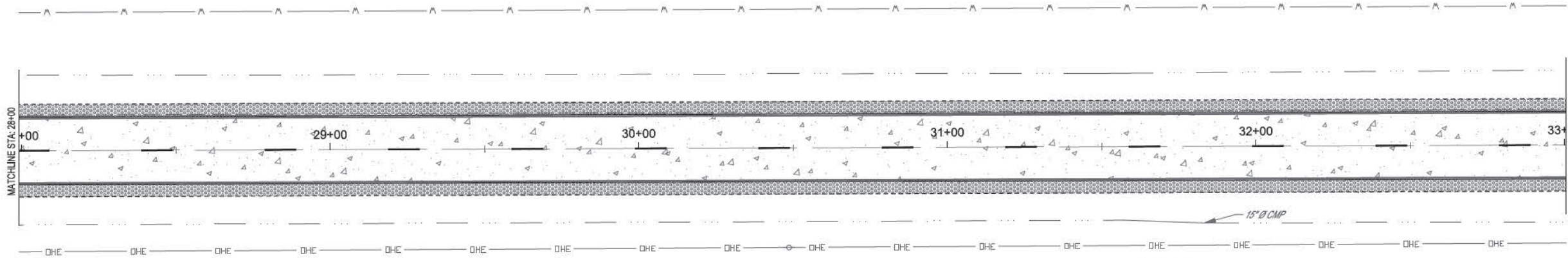






- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 -  AGGREGATE SHOULDER, TYPE A, 4'
 -  INCIDENTAL HOT MIX ASPHALT
 -  AGGREGATE SURFACE COURSE, TYPE B

STREET PLAN	MILANO & GRUNLOH ENGINEERS, LLC
	114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108
INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS	
SHEET #	25 OF 40
JOB #	17300 BG4



- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 -  AGGREGATE SHOULDER, TYPE A, 4"
 -  INCIDENTAL HOT MIX ASPHALT
 -  AGGREGATE SURFACE COURSE, TYPE B



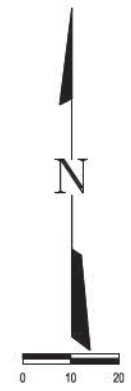
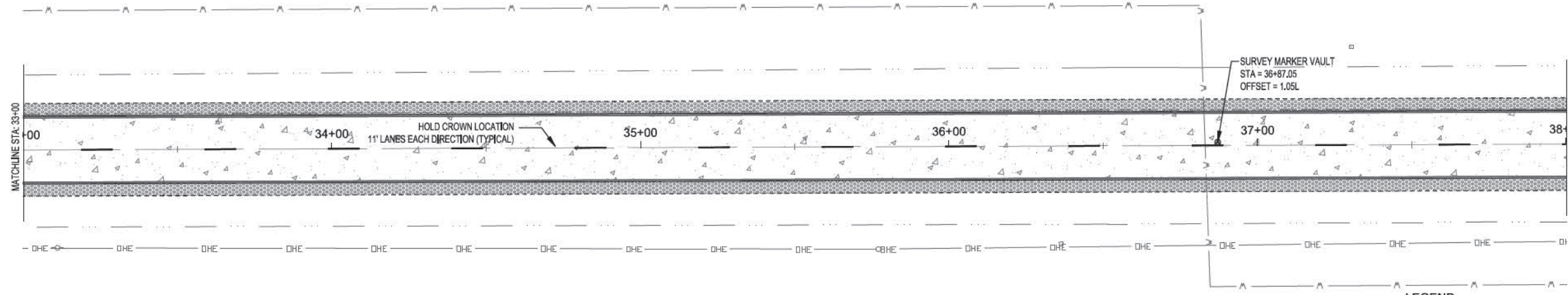
- LEGEND**
-  HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 -  AGGREGATE SHOULDER, TYPE A, 4"
 -  INCIDENTAL HOT MIX ASPHALT
 -  AGGREGATE SURFACE COURSE, TYPE B

BY	DATE	REVISION/ISSUED
SECTION	COUNTY	
ROUTE NO.		
FAS	EFFINGHAM	
1706		
FEED NUMBER, VOL. 7	BLANKS	
FILE # PROJECT		
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MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
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 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108



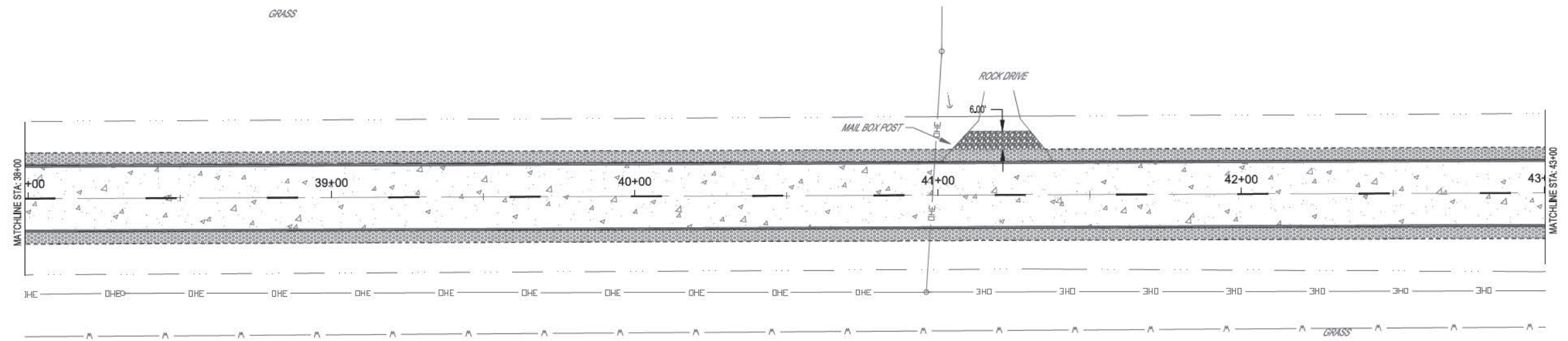
STREET PLAN
 INFRASTRUCTURE IMPROVEMENTS
 MOCCASIN ROAD
 EFFINGHAM COUNTY, ILLINOIS



LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4'
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B

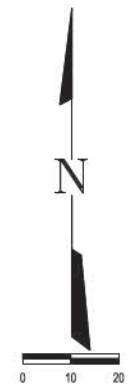
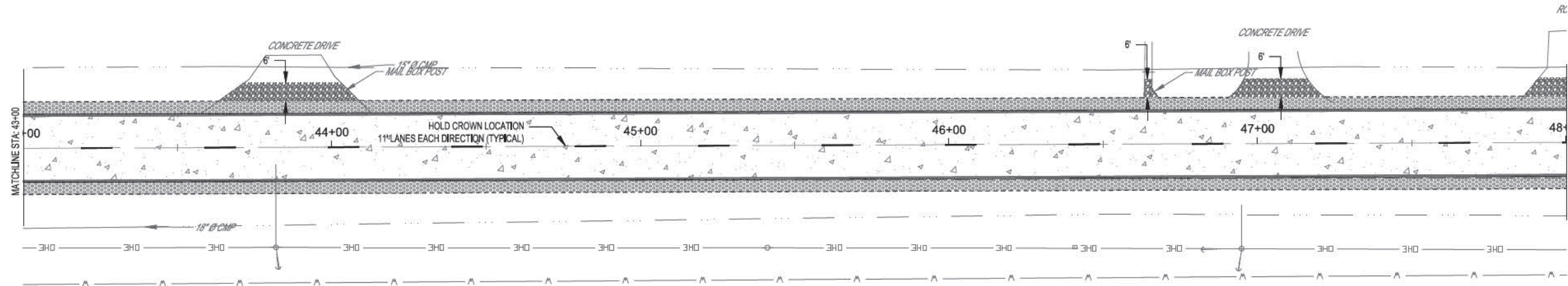
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SECTION	COUNTY	PROJECT
11-0084	EFFINGHAM	
ROUTE NO.	FAS	FILE NO.
1706		1706
FIELD BOOK	782.775.800.817.819	DATE
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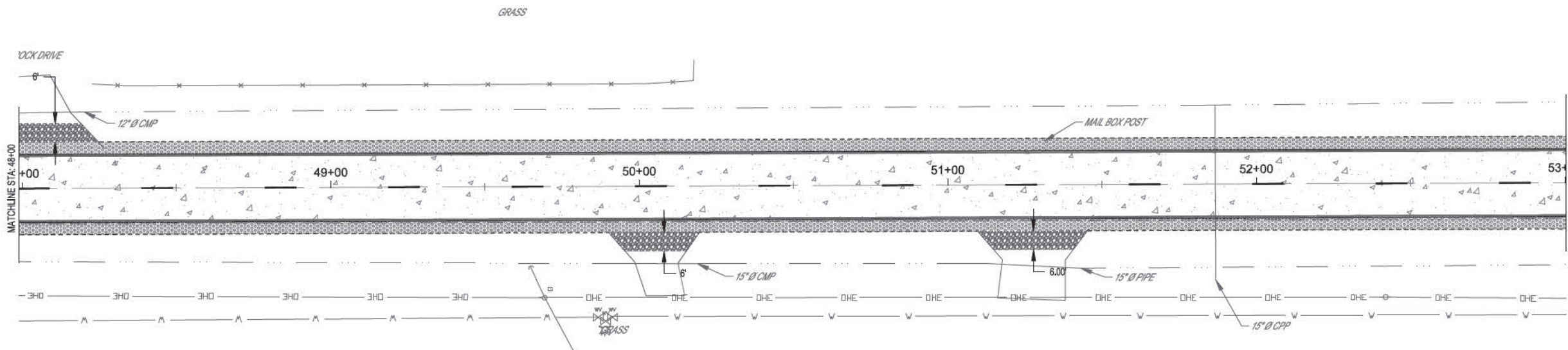
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4'
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B

FIELD BOOK	782.775.800.817.819	DATE
DRAWN BY	CMP	DATE
CHECKED BY	XXX.XXX	DATE
FILE LOCATION	S:\2017\17300BG4\DWG\STREET PLAN	DATE
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MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108		
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS		
SHEET #		
27 OF 40		
JOB #		
17300 BG4		



LEGEND

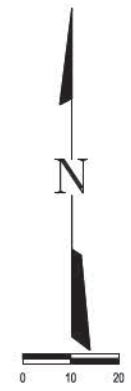
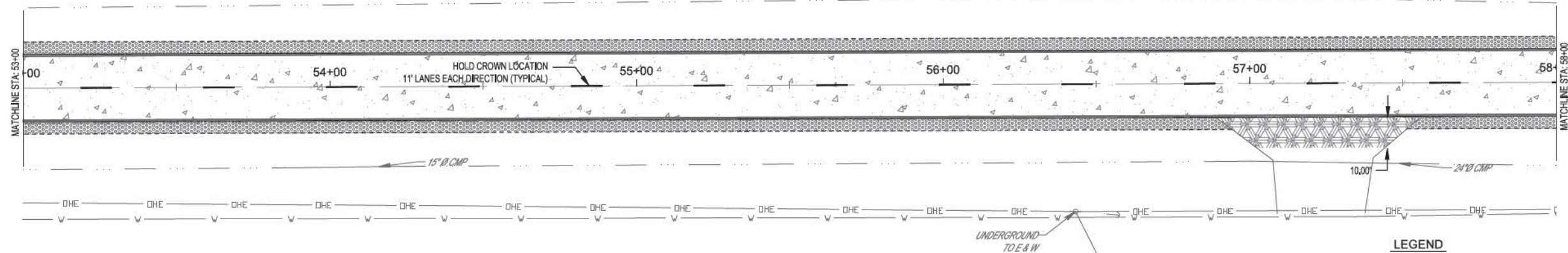
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4"
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B



LEGEND

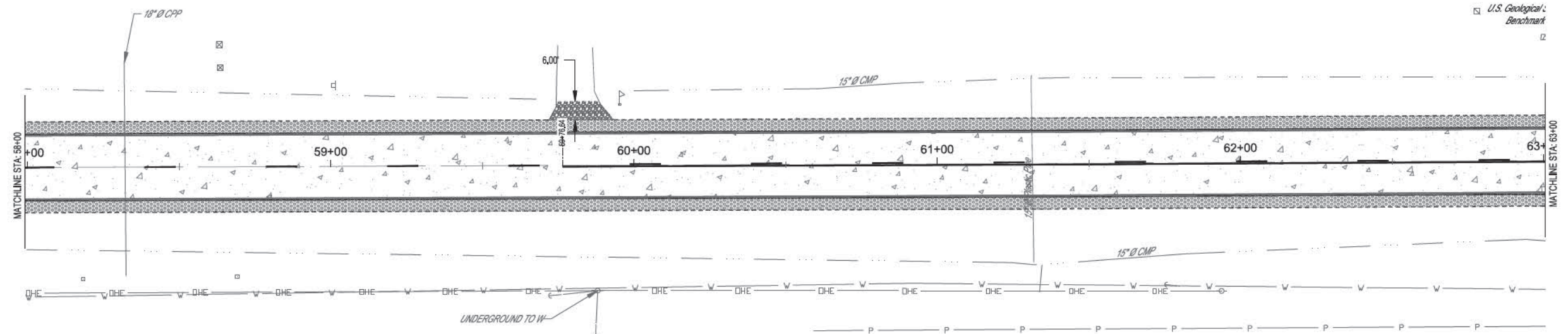
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4"
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B

DATE	ISSUED	BY	REVISION
ROUTE NO.	FAS 1706	SECTION	11-0004 -0RS
FILE NO.	XXX.XXX	PROJECT	S20171730054UNW/STREET.DWG
FIELD BOOK	782.775.800.817.819	COUNTY	EFFINGHAM
DRAWN BY	CMP	BLANKS	
CHECKED BY	XXX.XXX	CONTRACT #	#6935
FILE LOCATION	S:\2017\1730054UNW\STREET.DWG		
SAVE DATE	4/2/23 10:43		
<p>MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62001 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108</p>			
<p>STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS</p>			
<p>SHEET # 28 OF 40</p>			
<p>JOB # 17300 BG4</p>			



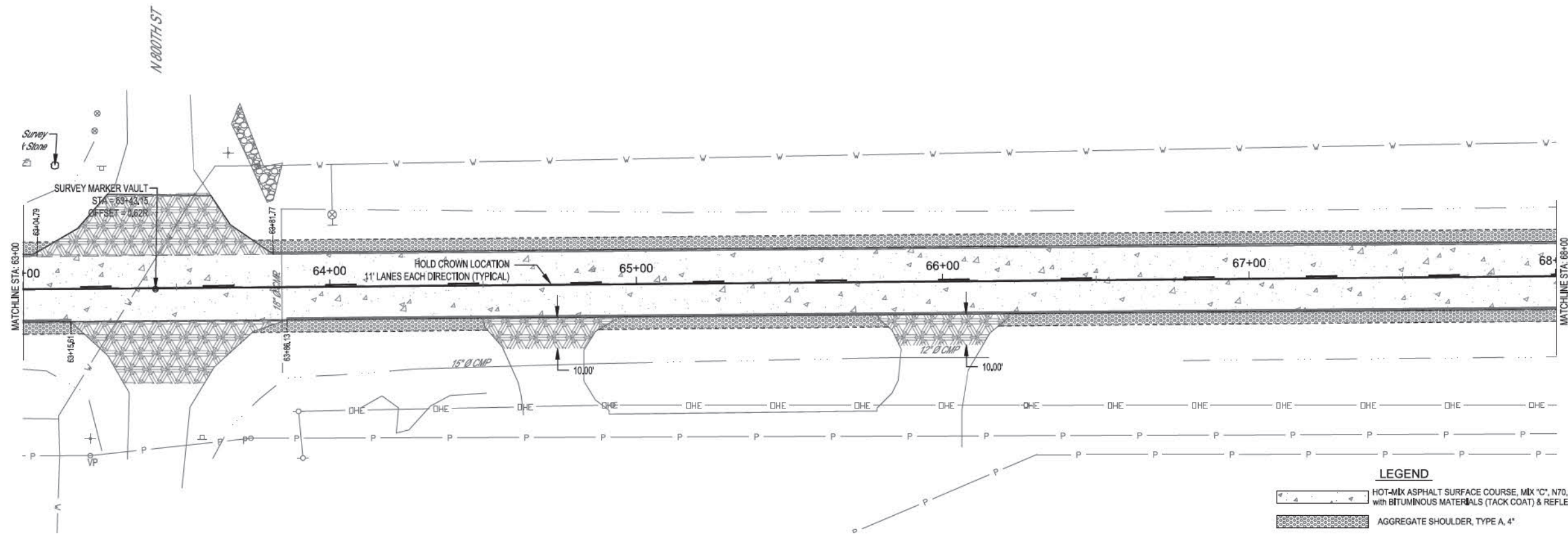
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

BY	DATE	REVISION/ISSUED
COUNTY	EFFINGHAM	
SECTION	11-0004	
ROUTE NO.	FAS 1706	
FILE NO.	1706-00RS	
FILE PROJECT	S12071730064UNWKS STREET DNG	
SAVE DATE	4/2/23 10:43	
FIELD BOOK	782.775.800.817.819	
DRAWN BY	CMP	
CHECKED BY	XXX.XXX	
FILE LOCATION	S:\2021\1730064\UNWKS STREET DNG	
	CONTRACT #6995	



- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

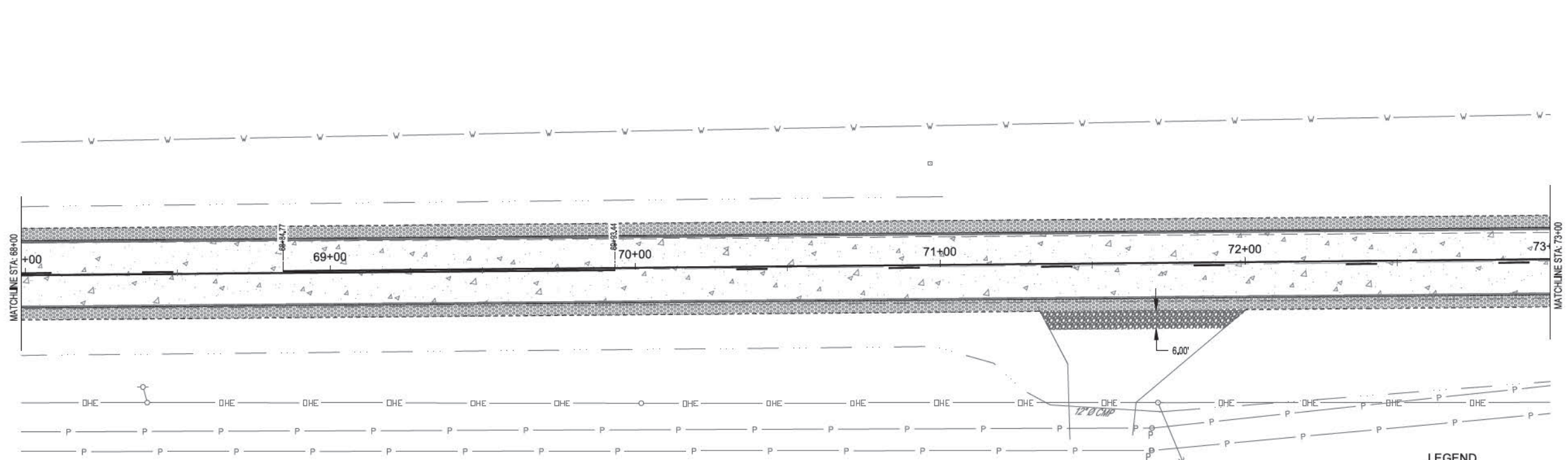
STREET PLAN	MILANO & GRUNLOH ENGINEERS, LLC	
	114 W. WASHINGTON AVE. PO BOX 897	
	EFFINGHAM, IL 62401	
	Phone: (217) 347-7262 (800) 677-2714	
INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS	Email: mgeengineers@mgeengineers.com	
	Web: www.mgeengineers.com	
	Design Firm # 181-003108	
SHEET #	28 OF 40	
JOB #	17300 BG4	



LEGEND

	HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
	AGGREGATE SHOULDER, TYPE A, 4"
	INCIDENTAL HOT MIX ASPHALT
	AGGREGATE SURFACE COURSE, TYPE B

DATE	ISSUED
BY	DATE
COUNTY	EFFINGHAM
SECTION	11-0084
ROUTE NO.	FAS 1706
FILE NO.	XXX,XXX
FILE LOCATION	S:\2017\17300BG4\DWG\STREET PLAN
SAVE DATE	4/2/23 10:43
FIELD BOOK	782.775.800.817.819
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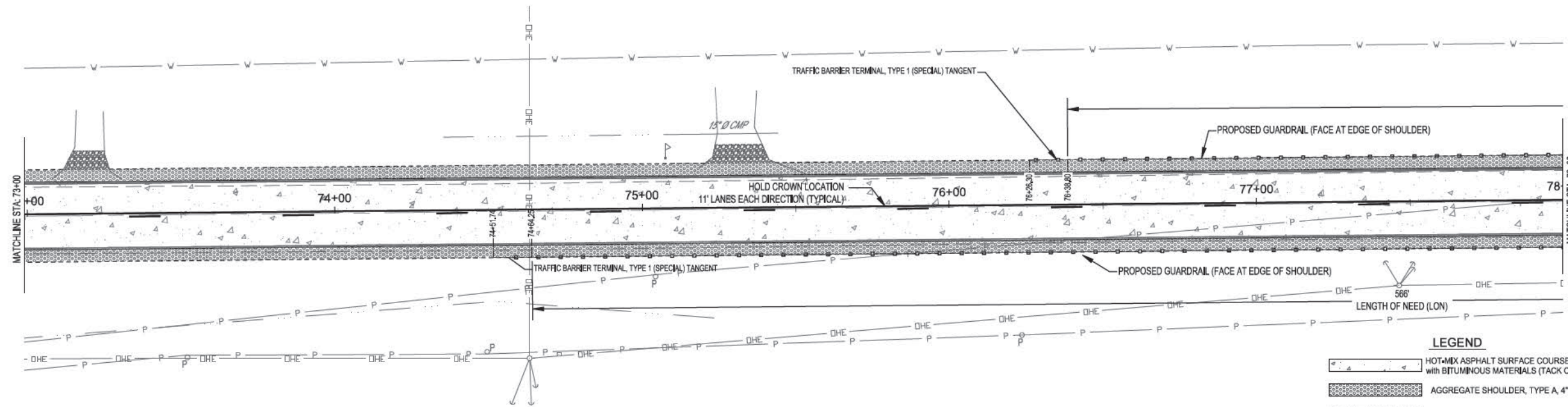
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	AGGREGATE SHOULDER, TYPE A, 4"
	INCIDENTAL HOT MIX ASPHALT
	AGGREGATE SURFACE COURSE, TYPE B

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 Phone: (217) 347-7262 | (800) 677-2714
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 Web: www.mgeengineers.com
 Design Firm # 181-003108

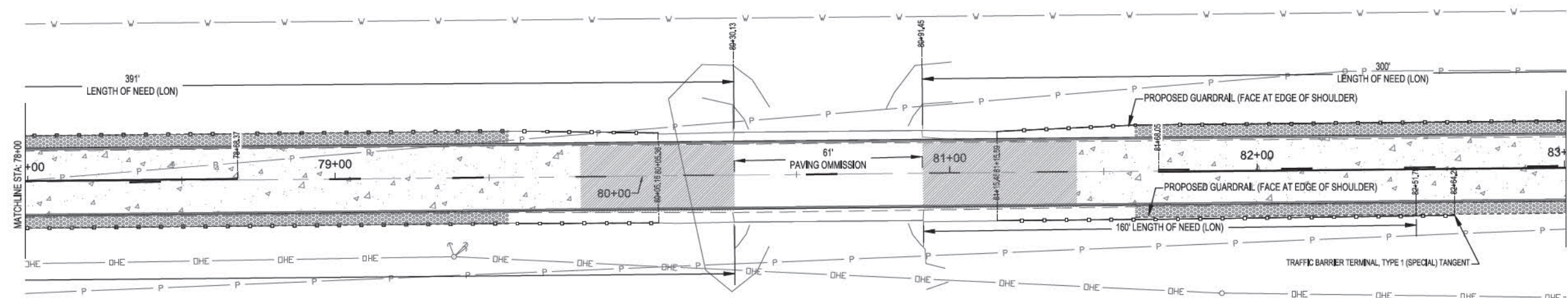
STREET PLAN
 INFRASTRUCTURE IMPROVEMENTS
 MOCCASIN ROAD
 EFFINGHAM COUNTY, ILLINOIS

SHEET #
 30 OF 40

JOB #
 17300 BG4



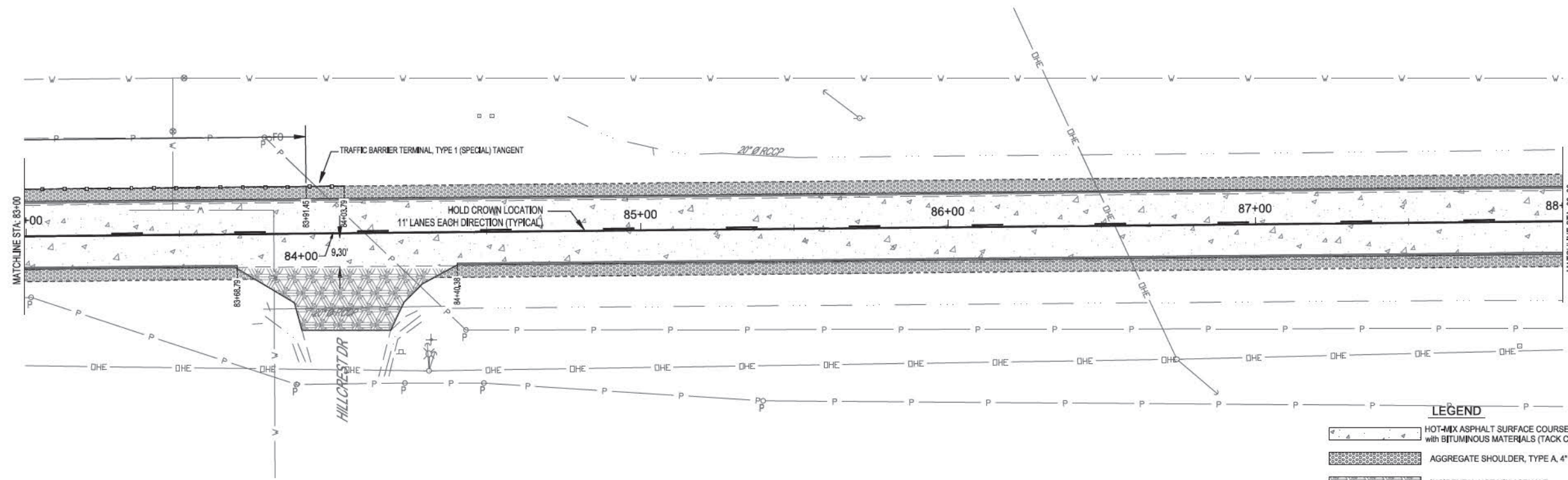
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B
 - PROPOSED GUARDRAIL



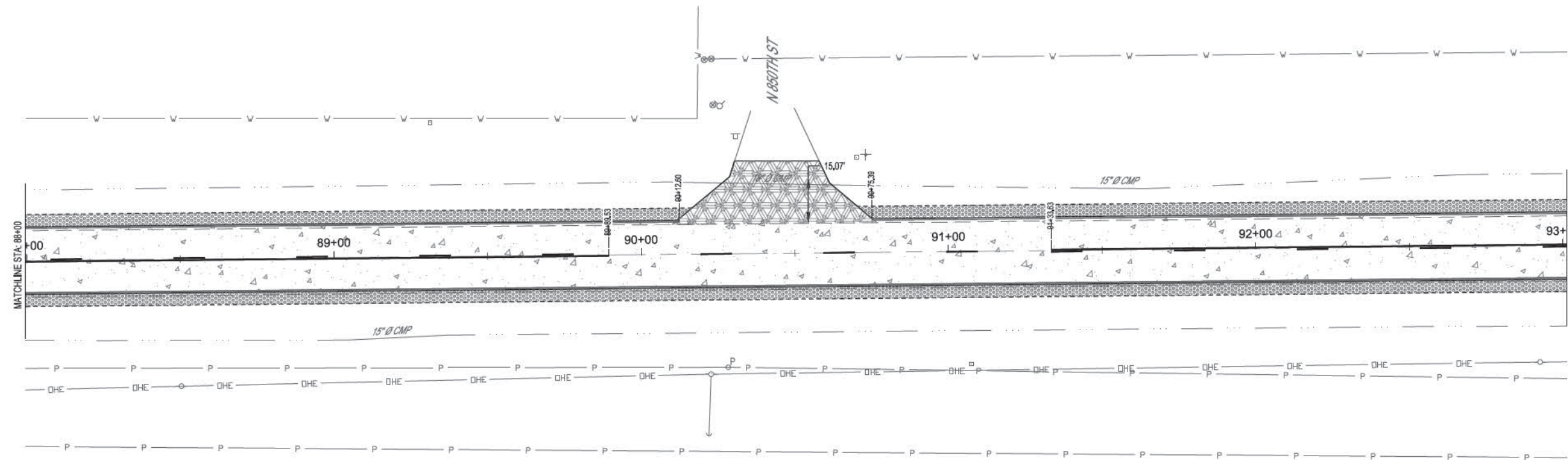
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B
 - PROPOSED GUARDRAIL
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 1.5"



BY	DATE	REVISION	ISSUED
SECTION	COUNTY		
11-0004	EFFINGHAM		
FAS	1706	00-RS	
ROUTE NO.	782.775.800.817.819	CMP	
DESIGNER NO. 7	XXX.XXX	FILE LOCATION	S:\2017\17300BG4\DWG\STREET\DWG
FILE NO.	44223 10-43	SAVE DATE	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgenr@milengr.com Web: www.milengr.com Design Firm # 181-003108			
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS			
SHEET # 31 OF 40			
JOB # 17300 BG4			
CONTRACT #69935			



- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B
 - PROPOSED GUARDRAIL



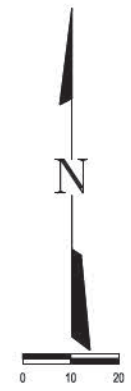
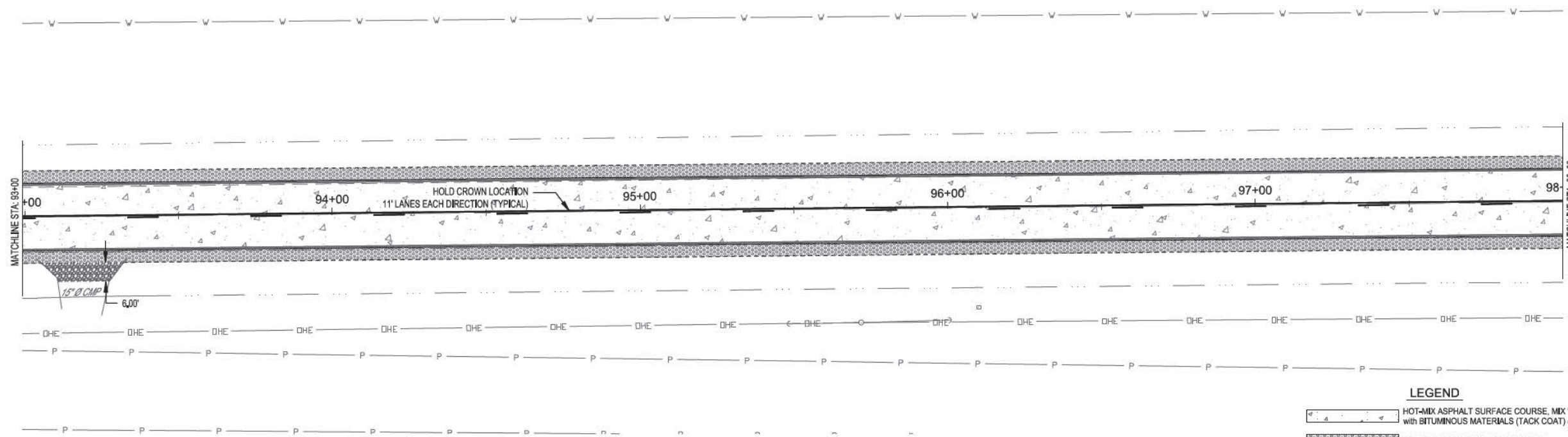
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

DATE	DESIGN/ISSUED
BY	
COUNTY	EFFINGHAM
SECTION	11-0084
ROUTE NO.	FAS 1706
FILE NO.	XXX,XXX
FILE PROJECT	S:20171730854UNGS STREET.DWG
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CONTRACT #	#6935

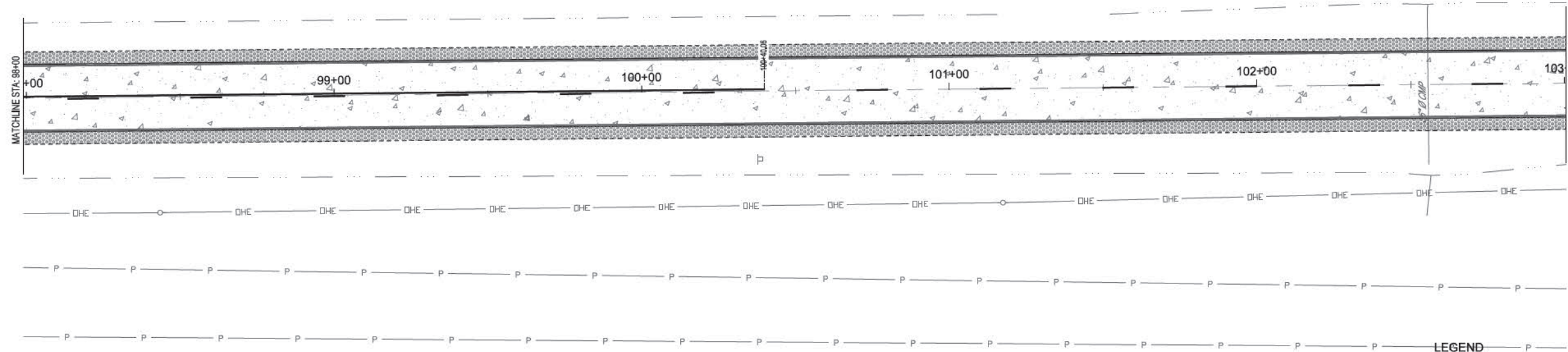
STREET PLAN
INFRASTRUCTURE IMPROVEMENTS
MOCCASIN ROAD
EFFINGHAM COUNTY, ILLINOIS

SHEET #	32 OF 40
JOB #	17300 BG4

MILANO & GRUNLOH ENGINEERS, LLC
 114 W. WASHINGTON AVE. | PO BOX 897
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 Phone: (217) 347-7262 | (800) 677-2714
 Email: mgeengineers@mgeengineers.com
 Web: www.mgeengineers.com
 Design Firm # 181-003108

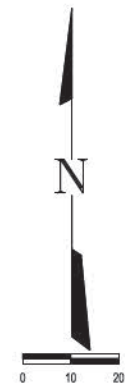
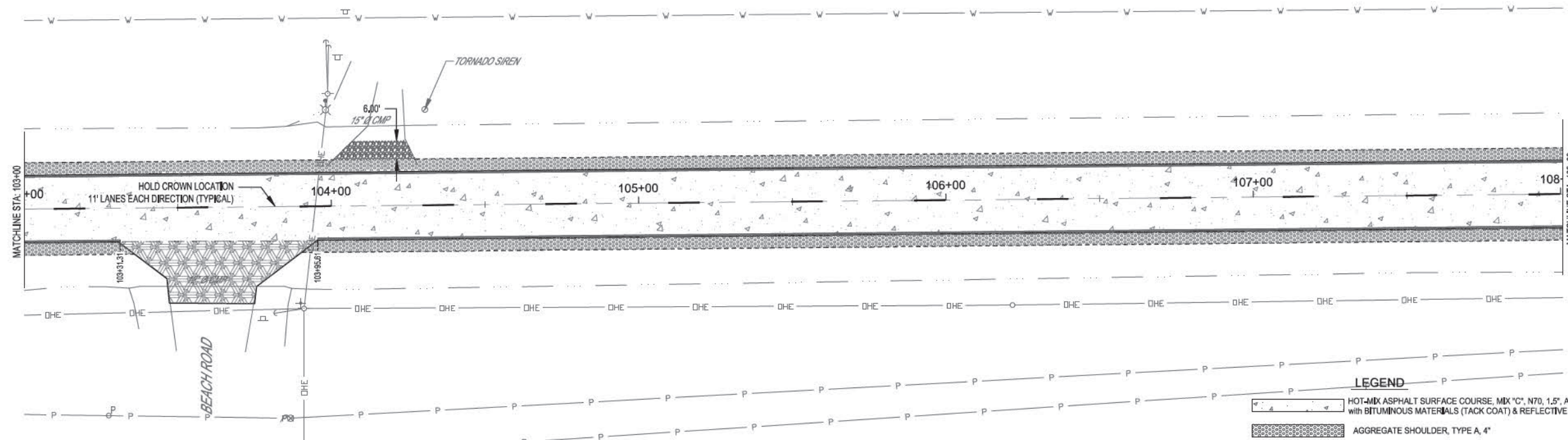


- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

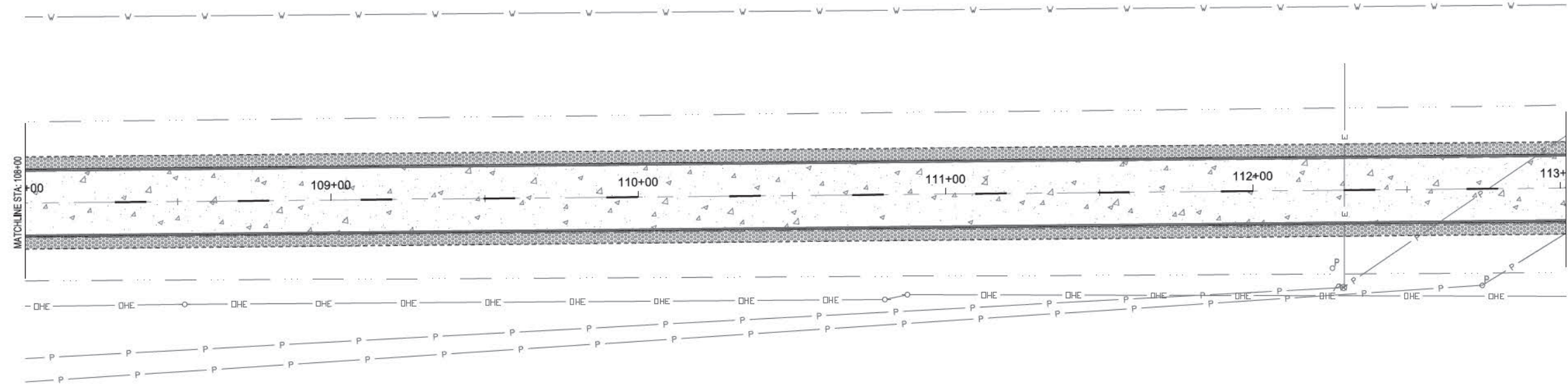


- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

BY	DATE	REVISED/ISSUED
COUNTY	EFFINGHAM	
SECTION	11-0084	
ROUTE NO.	FAS 1706	
FILE NO.	1706	
FILE NO.	XXX,XXX	
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FILE NO.	4/4/2023 10:43	
FIELD BOOK	782.775.800.817.819	
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CHECKED BY	XXX,XXX	
FILE LOCATION	S:\2017\17300BG4\WORKSHEET.DWG	
SAVE DATE	4/4/2023 10:43	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62001 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108		
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS		
SHEET #		
33 OF 40		
JOB #		
17300 BG4		

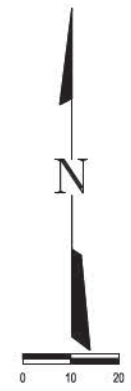
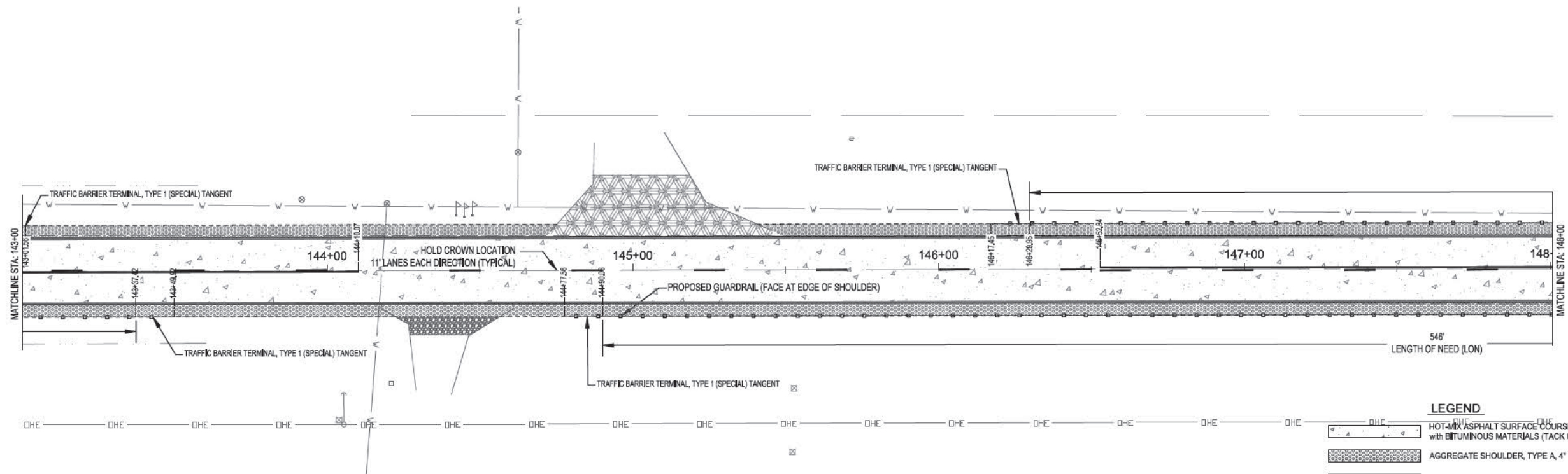


- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B



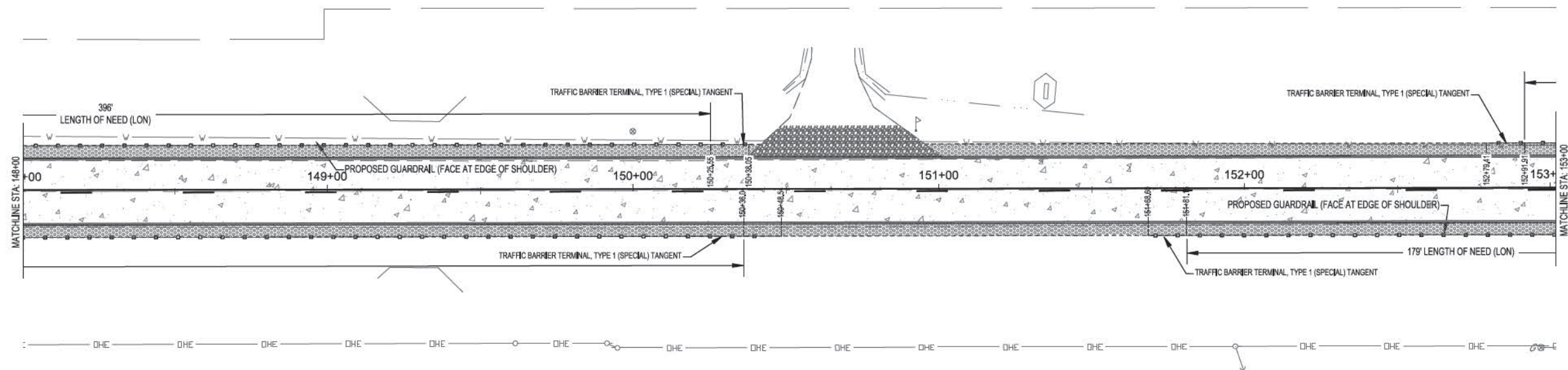
- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B

DATE	DESIGN ISSUED
BY	
COUNTY	EFFINGHAM
SECTION	11-0084
ROUTE NO.	FAS 1706
FEED NUMBER, VOL. 1	XXX, XXX
FILE LOCATION	S:\2017\17300BG4\MOCCASIN STREET.DWG
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MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62001 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108	
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS	
SHEET # 34 OF 40	
JOB # 17300 BG4	
CONTRACT #69935	



LEGEND

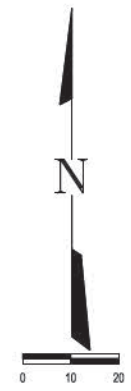
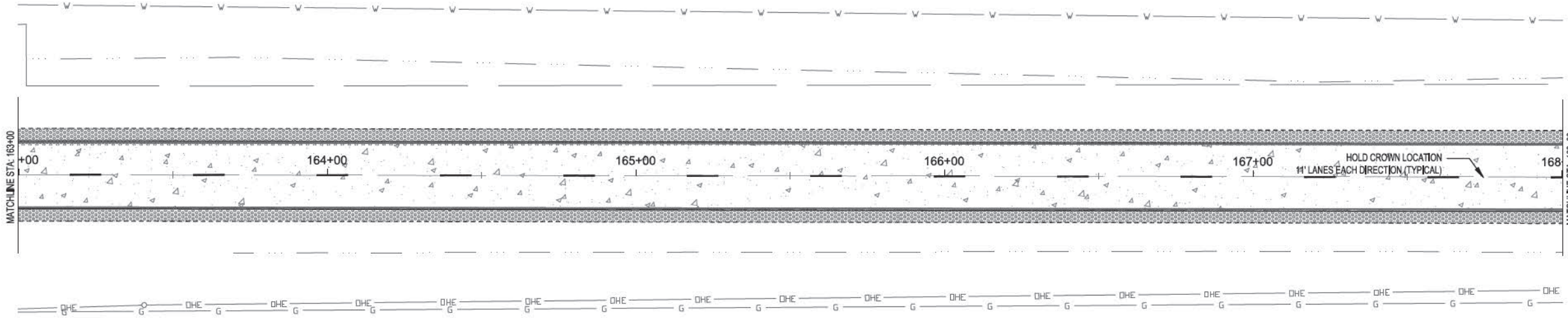
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4"
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B
- PROPOSED GUARDRAIL



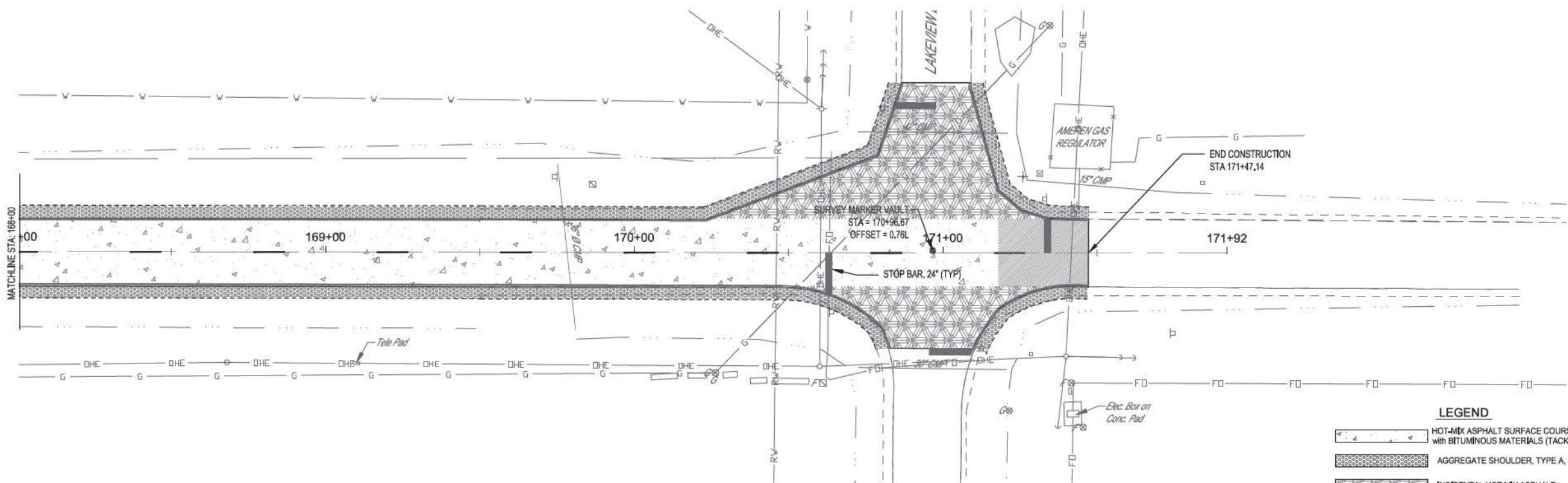
LEGEND

- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
- AGGREGATE SHOULDER, TYPE A, 4"
- INCIDENTAL HOT MIX ASPHALT
- AGGREGATE SURFACE COURSE, TYPE B
- PROPOSED GUARDRAIL

BY	DATE	REVISION/ISSUED
COUNTY	EFFINGHAM	
SECTION	11-00084	
ROUTE NO.	FAS 1706	
REV. NUMBER NO.7		
FILE # PROJECT		CONTRACT #69935
FIELD BOOK	782.775.808.817.819	
DRAWN BY	CMP	
CHECKED BY	XXX.XXX	
FILE LOCATION	S:\2017\17300BG4\DWGS\STREET PLAN	
SAVE DATE	4/2/23 10:43	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgenr@milengr.com Web: www.milengr.com Design Firm # 181-003108		
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS		
SHEET # 38 OF 40		
JOB # 17300 BG4		



- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B



- LEGEND**
- HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1.5", AND HOT-MIX ASPHALT BINDER, 2.5", with BITUMINOUS MATERIALS (TACK COAT) & REFLECTIVE CRACK CONTROL TREATMENT
 - AGGREGATE SHOULDER, TYPE A, 4"
 - INCIDENTAL HOT MIX ASPHALT
 - AGGREGATE SURFACE COURSE, TYPE B
 - HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 1.5"

BY DATE		REG/ISSUED
COUNTY		EFFINGHAM
ROUTE NO.	FAS 1706	FEED NUMBER NO. 7
SECTION	11-0004	FILE # PROJECT
FIELD BOOK	782.775.800.817.819	442223 10-43
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CHECKED BY	XXX.XXX	
FILE LOCATION	S:\2017\17300BG4\DWGS\STREET PLAN	CONTRACT #6935
SAVE DATE	4/4/2023 10:43	
MILANO & GRUNLOH ENGINEERS, LLC 114 W. WASHINGTON AVE. PO BOX 897 EFFINGHAM, IL 62401 Phone: (217) 347-7262 (800) 677-2714 Email: mgeengineers@mgeengineers.com Web: www.mgeengineers.com Design Firm # 181-003108		
STREET PLAN INFRASTRUCTURE IMPROVEMENTS MOCCASIN ROAD EFFINGHAM COUNTY, ILLINOIS		
SHEET #		
40 OF 40		
JOB #		
17300 BG4		