21101615 TOP SOIL FURNISH AND PLACE, 4"	
117+50 LT - 123+00 LT	785 SQ YD
117+50 RT - 123+00 RT	1,105 SQ YD

25100115 MULCH METHOD 2	
117+50 LT - 123+00 LT	0.16 ACRES
117+50 RT - 123+00 RT	0.23 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
117+50 LT - 123+00 LT	0.16 ACRES
117+50 RT - 123+00 RT	0.23 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET

28000305
TEMPORARY DITCH CHECK
STA. 117+50, 20.0' LT TO
STA. 118+00, 20.0' LT
DITCH CHECK SPACING = 24'
36 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 118+00, 20.0' LT TO
STA. 119+00, 20.0' LT
DITCH CHECK SPACING = 24'
48 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 119+45, 18.5' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 120+28, 16.0' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 117+50, 25.0' RT TO
STA. 118+00, 25.0' RT
DITCH CHECK SPACING = 14'
48 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 118+00, 20.0' RT TO
STA. 119+00, 20.0' RT
DITCH CHECK SPACING = 24'
48 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 119+45, 18.5' RT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 120+00, 25.0' RT TO
STA. 121+00, 25.0' RT
DITCH CHECK SPACING = 42'
24 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 121+00, 20.0' RT TO
STA. 122+00, 20.0' RT
DITCH CHECK SPACING = 28'
48 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 122+00, 20.0' RT TO
STA. 123+00, 20.0' RT
DITCH CHECK SPACING = 21'
48 FOOT

MATCH LINE 117+50.00

MATCH LINE 123+00.00

(GRAVEL) (OIL MAT) (GRAVEL) (GRAVEL) (OIL MAT)

FILE NAME =	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HART ROAD EROSION CONTROL ROCK CUT STATE PARK
$FILES$		DRAWN - S.D.K.	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 117+50.00 TO STA. 123+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	201
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
123+00 LT - 128+50 LT	1355 SQ YD
123+00 RT - 128+50 RT	1,336 SQ YD

25100115 MULCH METHOD 2	
123+00 LT - 128+50 LT	0.28 ACRES
113+00 RT - 128+50 RT	0.28 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
123+00 LT - 128+50 LT	0.28 ACRES
123+00 RT - 128+50 RT	0.28 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET

MATCH LINE 123+00.00

MATCH LINE 128+50.00

281100105
STONE RIPRAP,
CLASS A3
STA. 123+09, 35.60 LT
39 SQ YD

25100630
EROSION CONTROL BLANKET
STA. 125+00.00, 29.2' LT TO
STA. 126+60.00, 21.5' LT
142 SQ YD

281100105
STONE RIPRAP,
CLASS A3
STA. 126+80, 21.0' LT
5 SQ YD

25100630
EROSION CONTROL BLANKET
STA. 126+93.60, 20.0' LT TO
STA. 128+50.00, 19.6' LT
141 SQ YD

28000500
INLET AND PIPE PROTECTION
STA. 126+92.60, 20.20' LT
1 EACH

28000500
INLET AND PIPE PROTECTION
STA. 123+10.50, 29.80' RT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 123+00, 31.0' RT
12 FOOT

25100900
TURF REINFORCEMENT MAT
STA. 124+50.00, 32.8' RT TO
STA. 126+70.00, 30.5' RT
193 SQ YD

28000500
INLET AND PIPE PROTECTION
STA. 126+94.90, 31.50' RT
1 EACH

281100105
STONE RIPRAP,
CLASS A3
STA. 126+80, 30.7' RT
10 SQ YD

25100900
TURF REINFORCEMENT MAT
STA. 126+94.90, 32.5' RT TO
STA. 128+50.00, 25.0' RT
134 SQ YD

(OIL MAT)
(GRAVEL)

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HART ROAD EROSION CONTROL ROCK CUT STATE PARK
$MODELNAME$		DRAWN - S.D.K.	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 123+00.00 TO STA. 128+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	202
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
128+50 LT - 131+00 LT	440 SQ YD
131+17 LT - 134+00 LT	505 SQ YD
128+50 RT - 134+00 RT	1,159 SQ YD

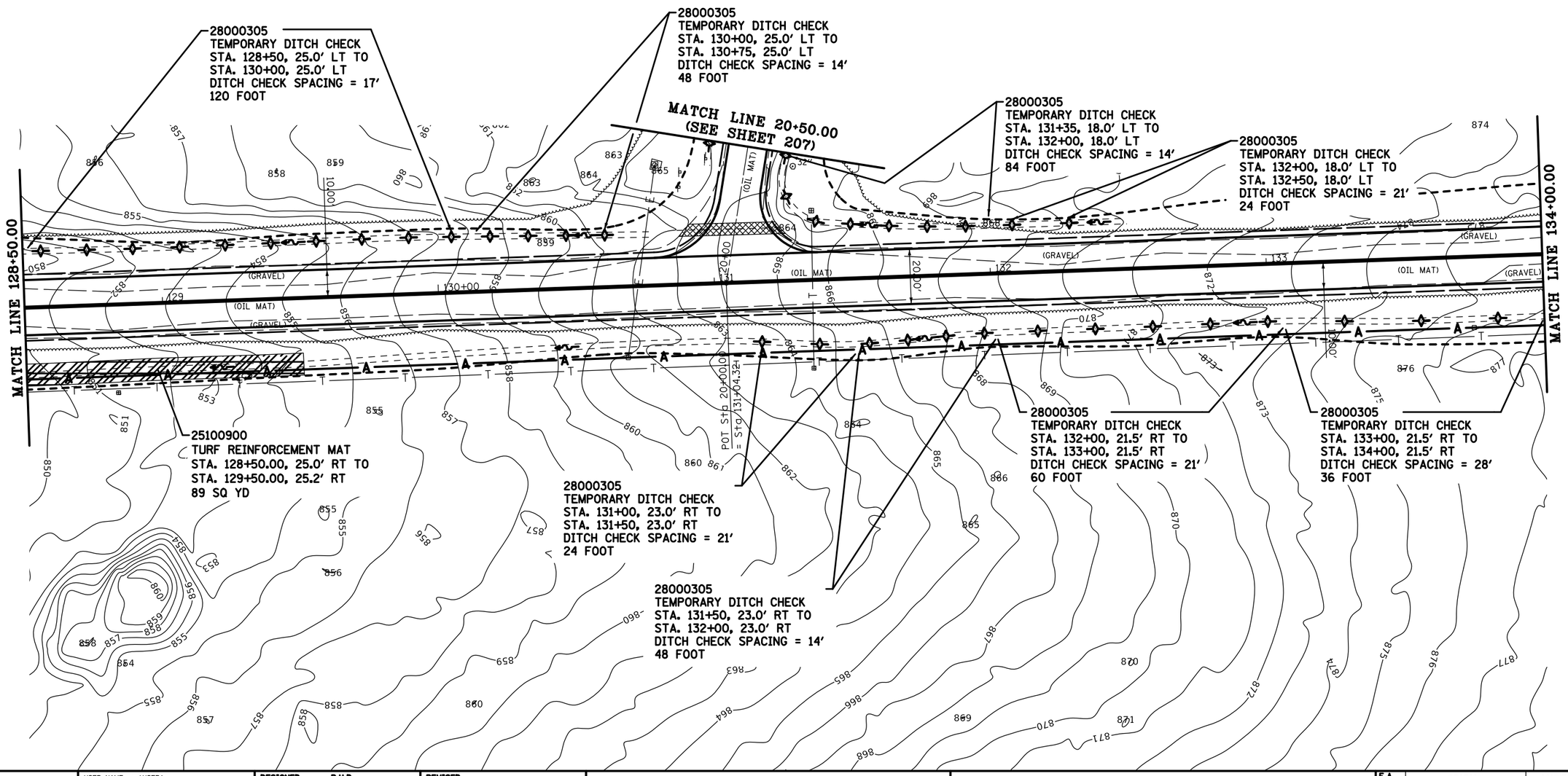
25100115 MULCH METHOD 2	
128+50 LT - 131+00 LT	0.09 ACRES
131+17 LT - 134+00 LT	0.10 ACRES
128+50 RT - 134+00 RT	0.24 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
128+50 LT - 131+00 LT	0.09 ACRES
131+17 LT - 134+00 LT	0.10 ACRES
128+50 RT - 134+00 RT	0.24 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET



FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HART ROAD EROSION CONTROL ROCK CUT STATE PARK
$MODELNAME$		DRAWN - D.R.C.	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 128+50.00 TO STA. 134+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	203
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		

21101615 TOP SOIL FURNISH AND PLACE, 4"	
134+00 LT - 139+50 LT	605 SQ YD
134+00 RT - 139+50 RT	1,197 SQ YD

25100115 MULCH METHOD 2	
134+00 LT - 139+50 LT	0.12 ACRES
134+00 RT - 139+50 RT	0.25 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
134+00 LT - 139+50 LT	0.12 ACRES
134+00 RT - 139+50 RT	0.25 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET

MATCH LINE 134+00.00

MATCH LINE 139+50.00

28000305
TEMPORARY DITCH CHECK
STA. 135+42, 18.0' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 135+50, 25.0' LT TO
STA. 136+50, 25.0' LT
DITCH CHECK SPACING = 18'
48 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 134+00, 21.0' RT TO
STA. 135+00, 21.0' RT
DITCH CHECK SPACING = 42'
24 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 135+00, 25.0' RT TO
STA. 137+00, 25.0' RT
DITCH CHECK SPACING = 28'
84 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 139+09.80, 20.3' RT
1 EACH

25100630
EROSION CONTROL BLANKET
STA. 137+00.00, 24.1' RT TO
STA. 139+00.00, 20.3' RT
187 SQ YD

(GRAVEL) (OIL MAT) (GRAVEL) (OIL MAT) (GRAVEL)

FILE NAME =	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
$FILES$		DRAWN - S.D.K.	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

HART ROAD EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 134+00.00 TO STA. 139+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	204
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
139+50 LT - 145+00 LT	682 SQ YD
139+50 RT - 145+00 RT	912 SQ YD

25100115 MULCH METHOD 2	
139+50 LT - 145+00 LT	0.14 ACRES
139+50 RT - 145+00 RT	0.19 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
139+50 LT - 145+00 LT	0.14 ACRES

K1005421 SEEDING (SPECIAL)	
139+50 RT - 145+00 RT	0.19 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET

MATCH LINE 139+50.00

MATCH LINE 145+00.00

28100105
STONE RIPRAP,
CLASS A3
140+12, 25.96' LT
9 SQ YD

28100105
STONE RIPRAP,
CLASS A3
144+62, 23.00' LT
6 SQ YD

25100630
EROSION CONTROL BLANKET
STA. 139+50.00, 20.1' RT TO
STA. 140+00.00, 21.3' RT
64 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 140+34, 22.0' RT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 140+50, 22.0' RT TO
STA. 142+50, 25.0' RT
DITCH CHECK SPACING = 55'
36 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 143+00, 22.0' RT TO
STA. 143+50, 22.0' RT
DITCH CHECK SPACING = 28'
24 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 143+50, 20.0' RT TO
STA. 144+50, 20.0' RT
DITCH CHECK SPACING = 21'
60 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 140+12.65, 19.00' RT
1 EACH

28000500
INLET AND PIPE PROTECTION
STA. 144+63.60, 26.00' RT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 144+74, 26.4' RT
12 FOOT

(GRAVEL) (OIL MAT) (GRAVEL)

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HART ROAD EROSION CONTROL ROCK CUT STATE PARK
$MODELNAME$	PLOT SCALE = $SCALE$	DRAWN - S.D.K.	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 139+50.00 TO STA. 145+00.00
	PLOT DATE = $DATE$	CHECKED - R.H.D.	REVISED -		
		DATE - 08/31/18	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	205
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
145+00 LT - 150+50 LT	769 SQ YD
145+00 RT - 150+50 RT	969 SQ YD

25100115 MULCH METHOD 2	
145+00 LT - 150+50 LT	0.16 ACRES
145+00 RT - 150+50 RT	0.20 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
145+00 LT - 150+50 LT	0.16 ACRES

K1005421 SEEDING (SPECIAL)	
145+00 RT - 150+50 RT	0.20 ACRES

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

N

0 20 40 60
SCALE IN FEET

28000305
TEMPORARY DITCH CHECK
STA. 145+50, 20.0' LT TO
STA. 146+50, 20.0' LT
DITCH CHECK SPACING = 21'
72 FOOT

28100105
STONE RIPRAP,
CLASS A3
149+04, 21.65' LT
9 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 145+05, 23.0' RT TO
STA. 146+30, 20.0' RT
DITCH CHECK SPACING = 21'
84 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 147+11, 22.0' RT TO
STA. 147+54, 20.0' RT
36 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 147+70.00, 19.80' RT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 148+48, 21.0' RT
12 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 149+04, 19.6' RT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 149+72, 22.5' RT
12 FOOT

25100630
EROSION CONTROL BLANKET
STA. 150+00.00, 21.8' RT TO
STA. 150+50.00, 18.6' RT
44 SQ YD

MATCH LINE 145+00.00

MATCH LINE 150+50.00
(SEE SHEET 189)

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HART ROAD EROSION CONTROL ROCK CUT STATE PARK
$MODELNAME$		DRAWN - S.D.K.	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 145+00.00 TO STA. 150+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	206
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
20+50 LT - 23+58.85 LT	470 SQ YD
20+50 RT - 23+58.85 RT	583 SQ YD

25000115 SEEDING, CLASS 1B	
20+50 LT - 23+58.85 LT	0.10 ACRES

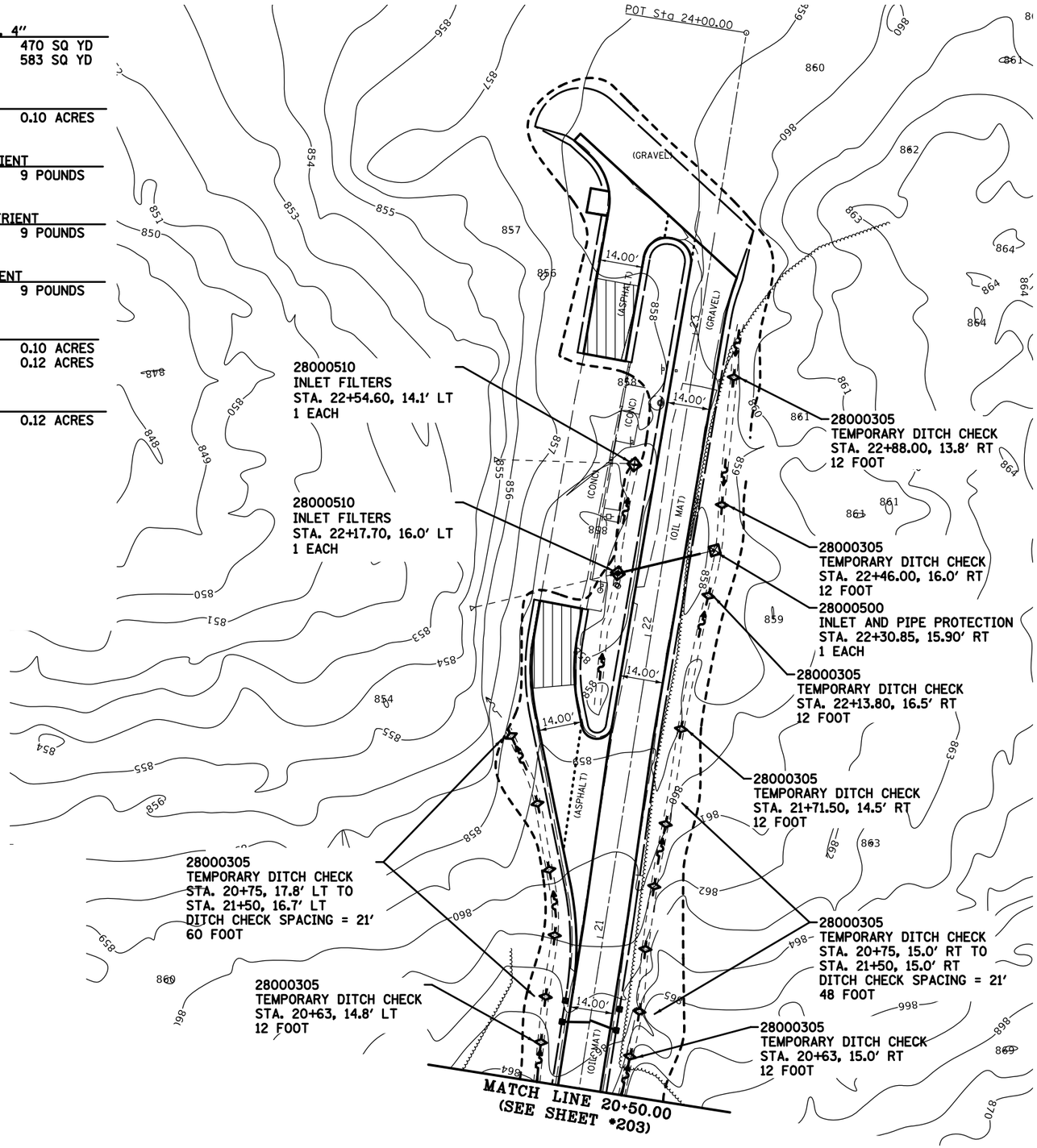
25000400 NITROGEN FERTILIZER NUTRIENT	
20+50 LT - 23+58.85 LT	9 POUNDS

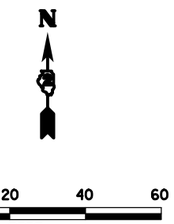
25000500 PHOSPHORUS FERTILIZER NUTRIENT	
20+50 LT - 23+58.85 LT	9 POUNDS

25000600 POTASIUM FERTILIZER NUTRIENT	
20+50 LT - 23+58.85 LT	9 POUNDS

25100115 MULCH METHOD 2	
20+50 LT - 23+58.85 LT	0.10 ACRES
20+50 RT - 23+58.85 RT	0.12 ACRES

K1004572 PRAIRIE SEEDING (SPECIAL)	
20+50 RT - 23+58.85 RT	0.12 ACRES





FILE NAME = *FILES* *MODELNAME*	USER NAME = *USER*	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEET (EQUESTRIAN CAMPGROUND) EROSION CONTROL ROCK CUT STATE PARK
		DRAWN - S.D.K.	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 20+50.00 TO STA. 23+58.85

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	207
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

21101615 TOP SOIL FURNISH AND PLACE, 4"

501+50 LT - 507+50 LT	1,074 SQ YD
501+50 RT - 507+50 RT	1,377 SQ YD

25100115 MULCH METHOD 2

501+50 LT - 507+50 LT	0.22 ACRES
501+50 RT - 507+50 RT	0.28 ACRES

K1005421 SEEDING (SPECIAL)

501+50 LT - 507+50 LT	0.22 ACRES
501+50 RT - 507+50 RT	0.28 ACRES

N

0 20 40 60
SCALE IN FEET

MATCH LINE 501+50.00
(SEE SHEET 173)

25100630
EROSION CONTROL BLANKET
STA. 501+50.00, 28.4' RT TO
STA. 502+50.00, 29.4' RT
76 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 502+50, 20.5' RT TO
STA. 503+00, 20.5' RT
DITCH CHECK SPACING = 17'
36 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 503+28, 15.5' RT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 503+50, 20.5' RT TO
STA. 504+15, 22.1' RT
DITCH CHECK SPACING = 13'
72 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 504+27.87, 22.4' RT
1 EACH

25100630
EROSION CONTROL BLANKET
STA. 501+50.00, 28.4' LT TO
STA. 502+50.00, 29.4' LT
103 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 504+50, 21.0' RT TO
STA. 505+50, 21.0' RT
DITCH CHECK SPACING = 14'
96 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 505+50, 21.0' RT TO
STA. 506+00, 21.0' RT
DITCH CHECK SPACING = 21'
24 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 506+00, 23.0' RT TO
STA. 507+00, 23.0' RT
DITCH CHECK SPACING = 33'
36 FOOT

28100105
STONE RIPRAP,
CLASS A3
507+09, 16.59' RT
30 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 507+23.50, 22.5' RT
12 FOOT

END CONSTRUCTION
507+34.39, 0.00' ℄

28000305
TEMPORARY DITCH CHECK
STA. 507+22, 23' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 506+00, 21.3' LT TO
STA. 507+00, 21.3' LT
DITCH CHECK SPACING = 33'
48 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 507+12+75, 15.50' LT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 505+50, 17.0' LT TO
STA. 506+00, 17.0' LT
DITCH CHECK SPACING = 21'
36 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 503+28, 16.0' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 503+50, 17.0' LT TO
STA. 504+00, 17.0' LT
DITCH CHECK SPACING = 10'
84 FOOT

28000500
INLET AND PIPE PROTECTION
STA. 504+35.77, 21.6' LT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 504+63, 17.0' LT TO
STA. 505+50, 17.0' LT
DITCH CHECK SPACING = 14'
84 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 502+50, 15.0' LT TO
STA. 503+00, 15.0' LT
DITCH CHECK SPACING = 17'
36 FOOT

FILE NAME = ⊕FILES⊕	USER NAME = ⊕USER⊕	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OFFICE ROAD EROSION CONTROL ROCK CUT STATE PARK
		DRAWN - S.D.K.	REVISED -		
⊕MODELNAME⊕	PLOT SCALE = ⊕SCALE⊕	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = ⊕DATE⊕	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 501+50.00 TO STA. 507+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	208
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
601+00 LT - 606+00 LT	472 SQ YD
601+00 RT - 606+00 RT	652 SQ YD

25100115 MULCH METHOD 2	
601+00 LT - 606+00 LT	0.10 ACRES
601+00 RT - 606+00 RT	0.13 ACRES

K1005421 SEEDING (SPECIAL)	
601+00 LT - 606+00 LT	0.10 ACRES
601+00 RT - 606+00 RT	0.13 ACRES

N

0 20 40 60
SCALE IN FEET

NOTE:

SEE EXISTING SHEETS FOR EXISTING CENTERLINE STATIONING AND ALIGNMENT INFORMATION

MATCH LINE 606+00.00

605+90.79
10.00' LT

605+90.79
10.00' RT

12" STEEL

R 175.00'
CL047

R 500.00'
CL046

28000305
TEMPORARY DITCH CHECK
STA. 605+59, 17.7' RT TO
STA. 606+00, 17.6' RT
DITCH CHECK SPACING = 9'
60 FOOT

MATCH LINE 601+00.00
(SEE SHEET #175)

LIMITS OF CONSTRUCTION

BAY VIEW

10.00'

(ASPHALT)

28000305
TEMPORARY DITCH CHECK
STA. 601+44, 19.7' RT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 602+42, 18.2' RT
12 FOOT

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT

FILE NAME = #FILES#	USER NAME = #USER#	DESIGNED - R.H.D.	REVISED -
		DRAWN - D.R.C	REVISED -
#MODELNAME#	PLOT SCALE = #SCALE#	CHECKED - R.H.D.	REVISED -
	PLOT DATE = #DATE#	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAY VIEW PARKING LOT EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 601+00.00 TO STA. 606+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	209
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

21101615 TOP SOIL FURNISH AND PLACE, 4"	
606+00 LT - 609+07 LT	533 SQ YD
606+00 RT - 609+25 RT	575 SQ YD

25000115 SEEDING, CLASS 1B	
606+00 LT - 609+07 LT	0.11 ACRES
607+00 RT - 609+25 RT	0.07 ACRES

25000400 NITROGEN FERTILIZER NUTRIENT	
606+00 LT - 609+07 LT	10 POUNDS
607+00 RT - 609+25 RT	7 POUNDS

25000500 PHOSPHORUS FERTILIZER NUTRIENT	
606+00 LT - 607+00 LT	10 POUNDS
607+00 RT - 609+25 RT	7 POUNDS

25000600 POTASIUM FERTILIZER NUTRIENT	
606+00 LT - 607+00 LT	10 POUNDS
607+00 RT - 609+25 RT	7 POUNDS

25100115 MULCH METHOD 2	
606+00 LT - 609+07 LT	0.11 ACRES
606+00 RT - 609+25 RT	0.12 ACRES

K1005421 SEEDING (SPECIAL)	
606+00 RT - 607+00 RT	0.05 ACRES

NOTE:

SEE EXISTING SHEETS FOR
EXISTING CENTERLINE STATIONING
AND ALIGNMENT INFORMATION

0 20 40 60
SCALE IN FEET

PIERCE LAKE

LIMITS OF CONSTRUCTION

28000400
PERIMETER EROSION BARRIER
STA. 606+50, 36' LT TO
STA. 609+14, 54' RT
448 FOOT

(ASPHALT)

RESTROOM

606+50.79
12.00' LT

606+50.79
12.00' RT

12" STUMP

BAY VIEW

(ASPHALT)

R 50.00'

CLOAD

LIMITS OF CONSTRUCTION

LIMITS OF CONSTRUCTION

MATCH LINE 606+00.00

28000305
TEMPORARY DITCH CHECK
STA. 606+00, 17.8' RT TO
STA. 606+80, 20.3' RT
DITCH CHECK SPACING = 11'
72 FOOT

25100630
EROSION CONTROL BLANKET
STA. 606+74, 22.0' RT TO
STA. 606+86, 85.9' RT
85 SQ YD

25100900
TURF REINFORCEMENT MAT
STA. 608+79, 45.3' RT TO
STA. 608+85, 92.1' RT
61 SQ YD

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT
- EROSION BARRIER

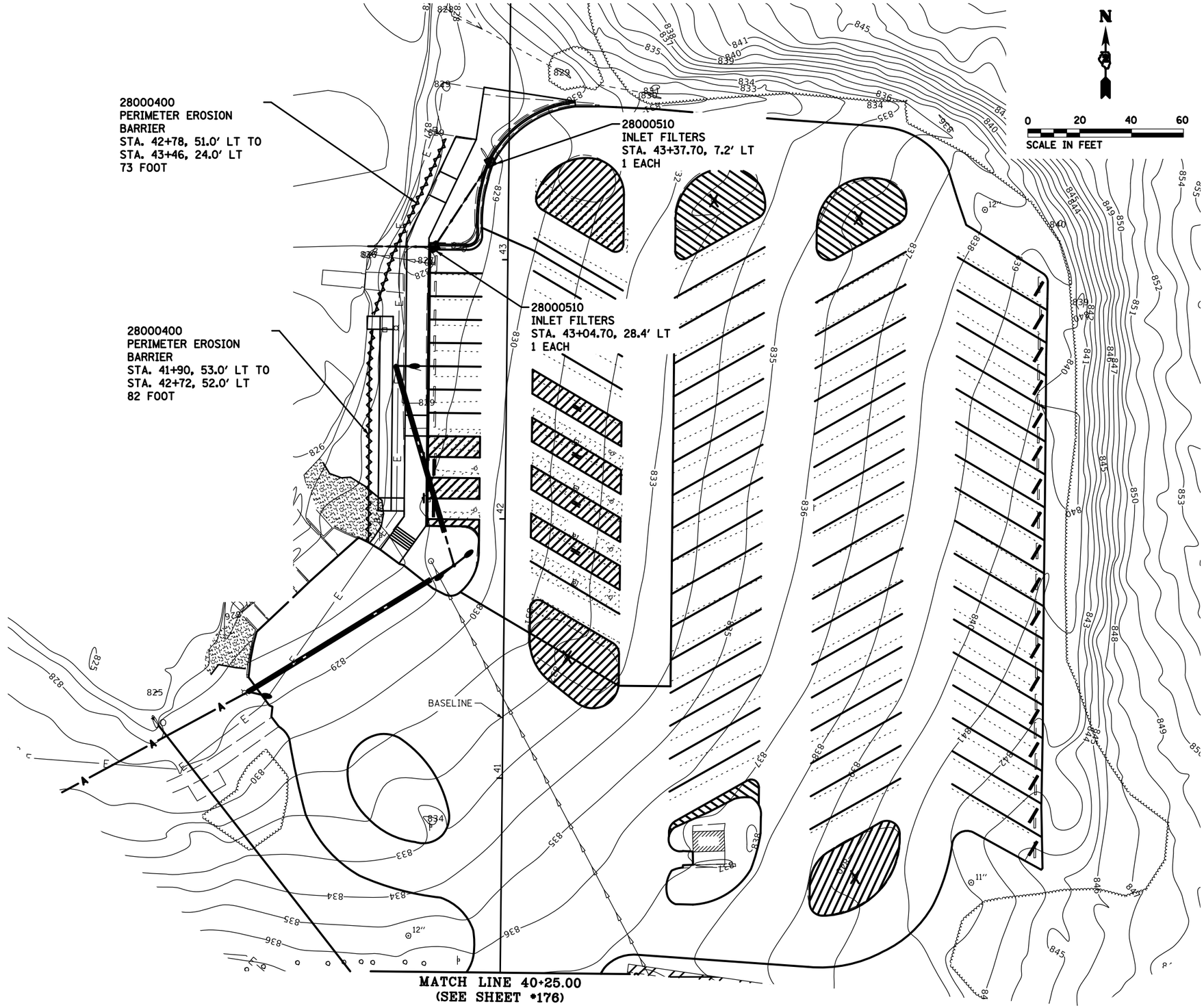
FILE NAME =	USER NAME = $USER$	DESIGNED - R.H.D./D.R.C.	REVISED -
$FILES$		DRAWN - D.R.C	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAY VIEW PARKING LOT EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 606+00.00 TO STA. 612+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	210
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



21101615 TOP SOIL FURNISH AND PLACE, 4"
40+25 RT - 44+00 RT 1,804 SQ YD

25000115 SEEDING, CLASS 1B
40+25 RT - 44+00 RT 0.37 ACRES

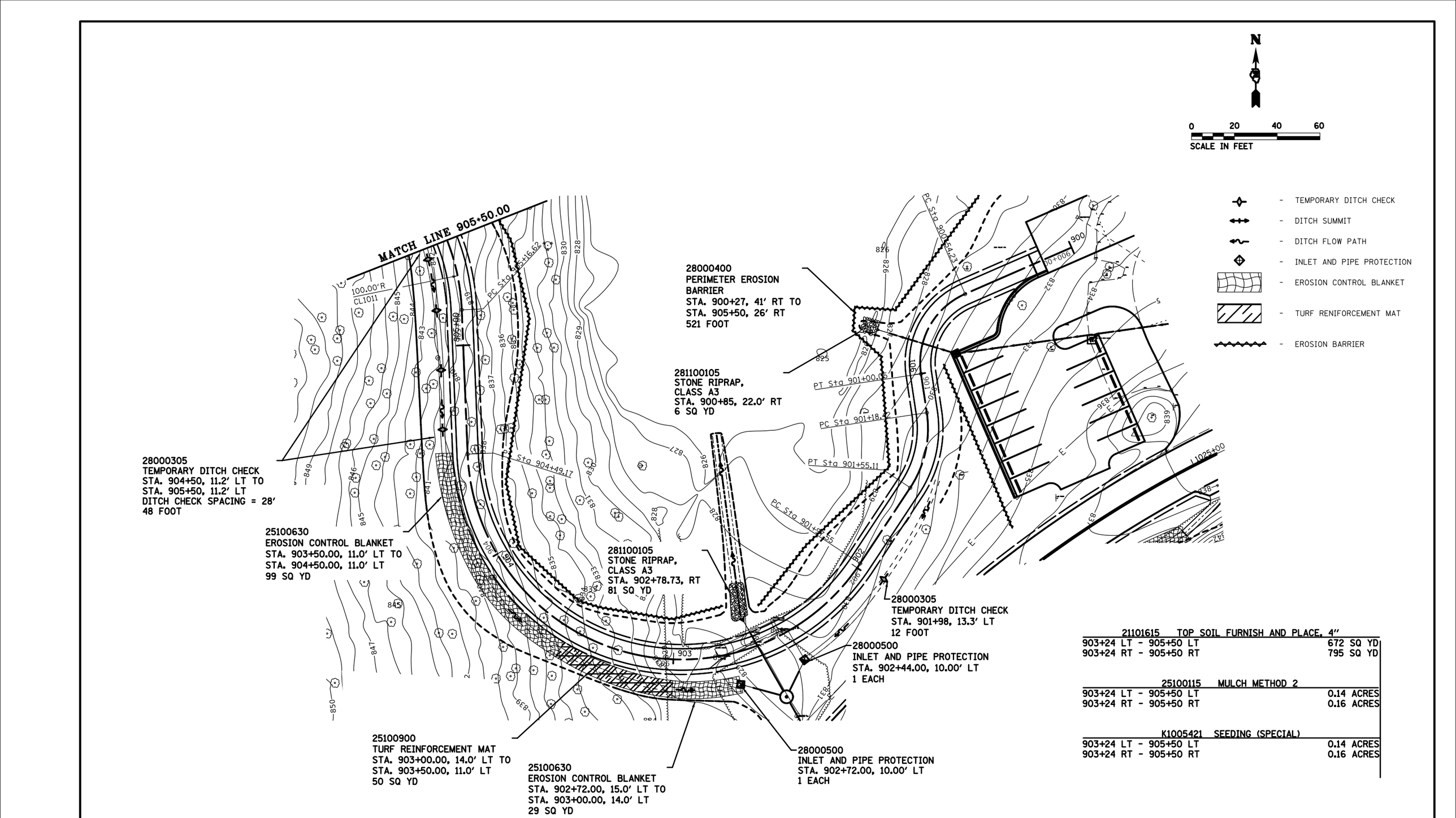
25000400 NITROGEN FERTILIZER NUTRIENT
40+25 RT - 44+00 RT 34 POUNDS

25000500 PHOSPHORUS FERTILIZER NUTRIENT
40+25 RT - 44+00 RT 34 POUNDS

25000600 POTASIUM FERTILIZER NUTRIENT
40+25 RT - 44+00 RT 34 POUNDS

25100115 MULCH METHOD 2
40+25 RT - 44+00 LT 0.37 ACRES

FILE NAME = *FILES* *MODELNAME*	USER NAME = *USER*	DESIGNED - R.H.D./D.R.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOAT RAMP PARKING LOT EROSION CONTROL ROCK CUT STATE PARK				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - S.D.K.	REVISED -							ROCK CUT 2018	WINNEBAGO	406	211
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -		SCALE: 1" = 20'	SHEET OF SHEETS	STA. 40+25.00	TO STA. 44+00.00			CONTRACT NO. 46903		
	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -								ILLINOIS FED. AID PROJECT		



21101615 TOP SOIL FURNISH AND PLACE, 4"	
903+24 LT - 905+50 LT	672 SQ YD
903+24 RT - 905+50 RT	795 SQ YD
25100115 MULCH METHOD 2	
903+24 LT - 905+50 LT	0.14 ACRES
903+24 RT - 905+50 RT	0.16 ACRES
K1005421 SEEDING (SPECIAL)	
903+24 LT - 905+50 LT	0.14 ACRES
903+24 RT - 905+50 RT	0.16 ACRES

FILE NAME = $FILES$ $MODELNAME$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - S.D.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEW SHARED USE PATH EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 900+00.00 TO STA. 905+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	212
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT
- ARTICULATED BLOCK REVETMENT MAT
- EROSION BARRIER

N

0 20 40 60
SCALE IN FEET

28500400
ARTICULATED BLOCK
REVETMENT MAT
STA. 910+50, 15.0' LT
8 SQ YD

MATCH LINE 911+50.00

28000400
PERIMETER EROSION
BARRIER
STA. 905+50, 26' RT TO
STA. 911+50, 17' RT
597 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 910+50, 13.0' LT TO
STA. 911+50, 13.0' LT
DITCH CHECK SPACING = 51'
24 FOOT

XIST. CURVE CL019
I.= STA. 1044+77.11
Δ = 4° 05' 43" (LT)
D = 2° 51' 53"
R = 2,000.00
T = 71.51
L = 142.95'
E = 2.28
e = -----
T.R. = -----

28000500
INLET AND PIPE PROTECTION
STA. 910+50.00, 11.7' LT
1 EACH

25100900
TURF REINFORCEMENT MAT
STA. 909+00.00, 14.0' LT TO
STA. 910+50.00, 11.0' LT
138 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 908+50, 13.3' LT TO
STA. 909+00 15.5' LT
DITCH CHECK SPACING = 21'
24 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 908+00, 13.3' LT TO
STA. 908+50 15.5' LT
DITCH CHECK SPACING = 28'
24 FOOT

PIERCE LAKE

28500400
ARTICULATED BLOCK REVETMENT MAT
STA. 907+20, 25.0' RT
3 SQ YD

28000305
TEMPORARY DITCH CHECK
STA. 907+58.00, 10.5' LT
12 FOOT

25100900
TURF REINFORCEMENT MAT
STA. 907+00.00, 10.8' LT TO
STA. 907+50.36, 11.2' LT
42 SQ YD

28000500
INLET AND PIPE PROTECTION
STA. 907+20.00, 15.0' LT
1 EACH

28000305
TEMPORARY DITCH CHECK
STA. 906+73.20, 10.0' LT
12 FOOT

28000305
TEMPORARY DITCH CHECK
STA. 905+72.40, 10.8' LT
12 FOOT

MATCH LINE 905+50.00

21101615 TOP SOIL FURNISH AND PLACE, 4"	
905+50 LT - 911+50 LT	1,080 SQ YD
905+50 RT - 911+50 RT	729 SQ YD

25100115 MULCH METHOD 2	
905+50 LT - 911+50 LT	0.22 ACRES
905+50 RT - 911+50 RT	0.15 ACRES

K1005421 SEEDING (SPECIAL)	
905+50 LT - 911+50 LT	0.22 ACRES
905+50 RT - 911+50 RT	0.15 ACRES

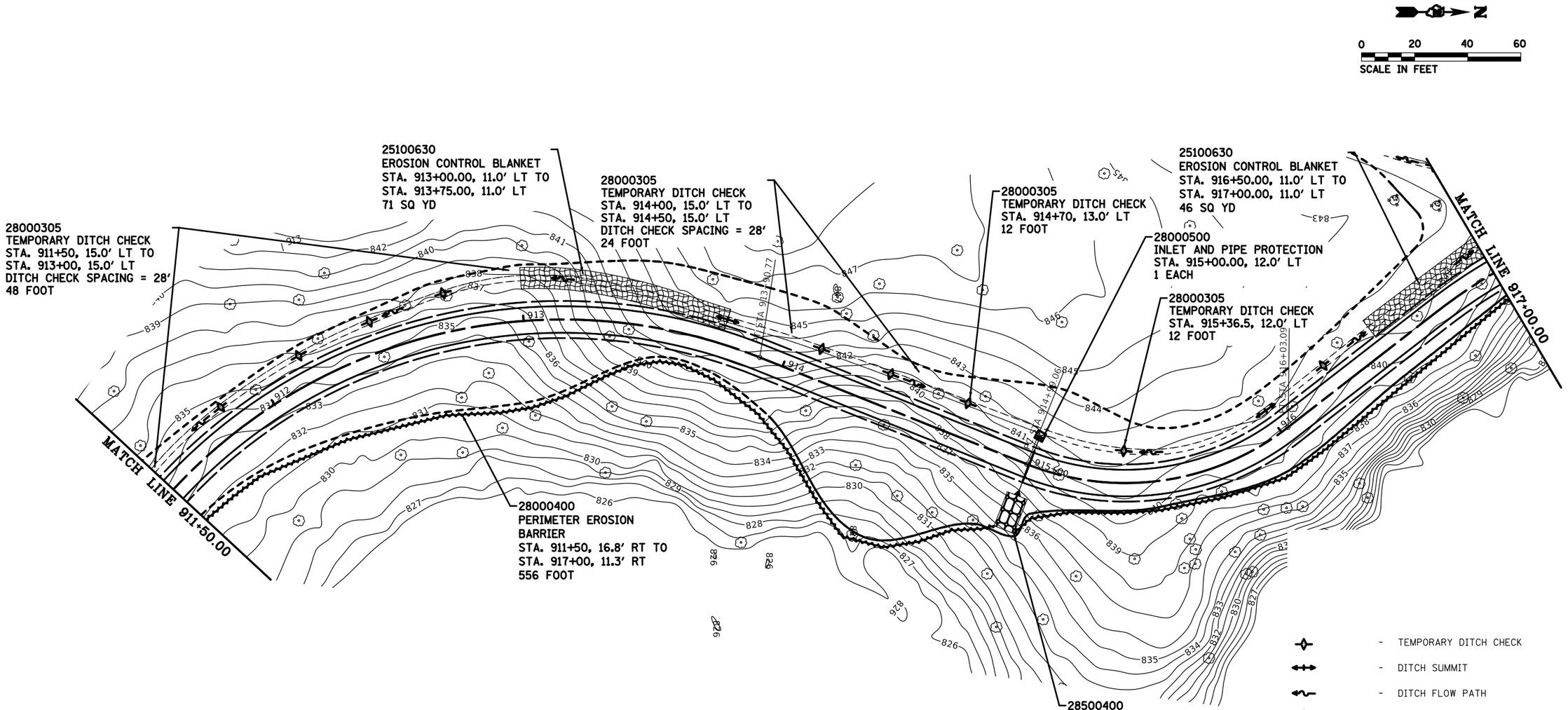
FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - S.D.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEW SHARED USE PATH EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 905+50.00 TO STA. 911+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	213
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



21101615 TOP SOIL FURNISH AND PLACE, 4"	
911+50 LT - 917+00 LT	948 SQ YD
911+50 RT - 917+00 RT	942 SQ YD

25100115 MULCH METHOD 2	
911+50 LT - 917+00 LT	0.20 ACRES
911+50 RT - 917+00 RT	0.19 ACRES

K1005421 SEEDING (SPECIAL)	
911+50 LT - 917+00 LT	0.20 ACRES
911+50 RT - 917+00 RT	0.19 ACRES

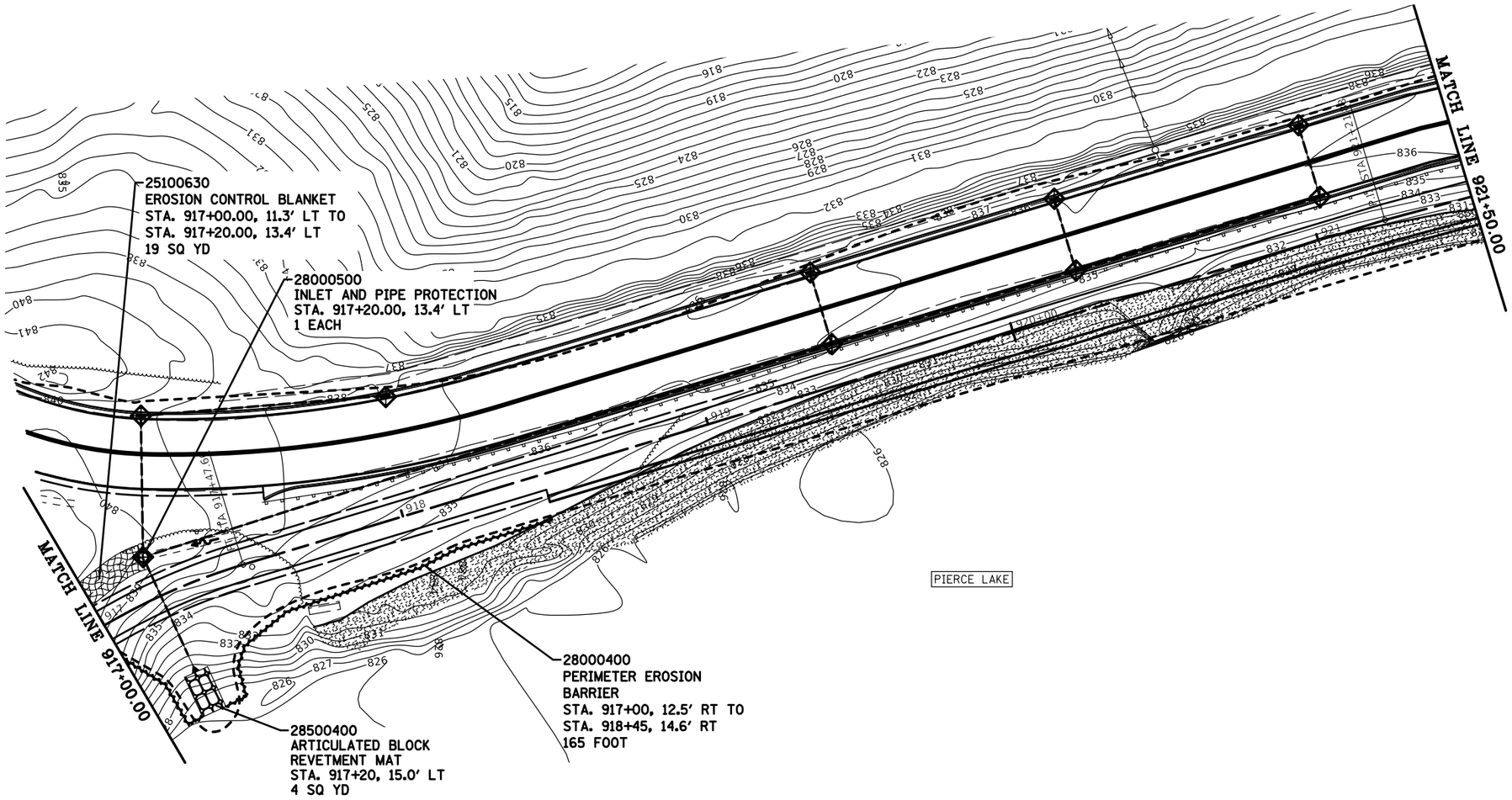
FILE NAME = *FILES*	USER NAME = *USER*	DESIGNED - R.H.D.	REVISED -
		DRAWN - S.D.K.	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -
MODELNAME	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEW SHARED USE PATH EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 911+50.00 TO STA. 917+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	214
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



N

0 20 40 60

SCALE IN FEET

- TEMPORARY DITCH CHECK
- DITCH SUMMIT
- DITCH FLOW PATH
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- TURF RENIFORCEMENT MAT
- ARTICULATED BLOCK REVETMENT MAT
- EROSION BARRIER

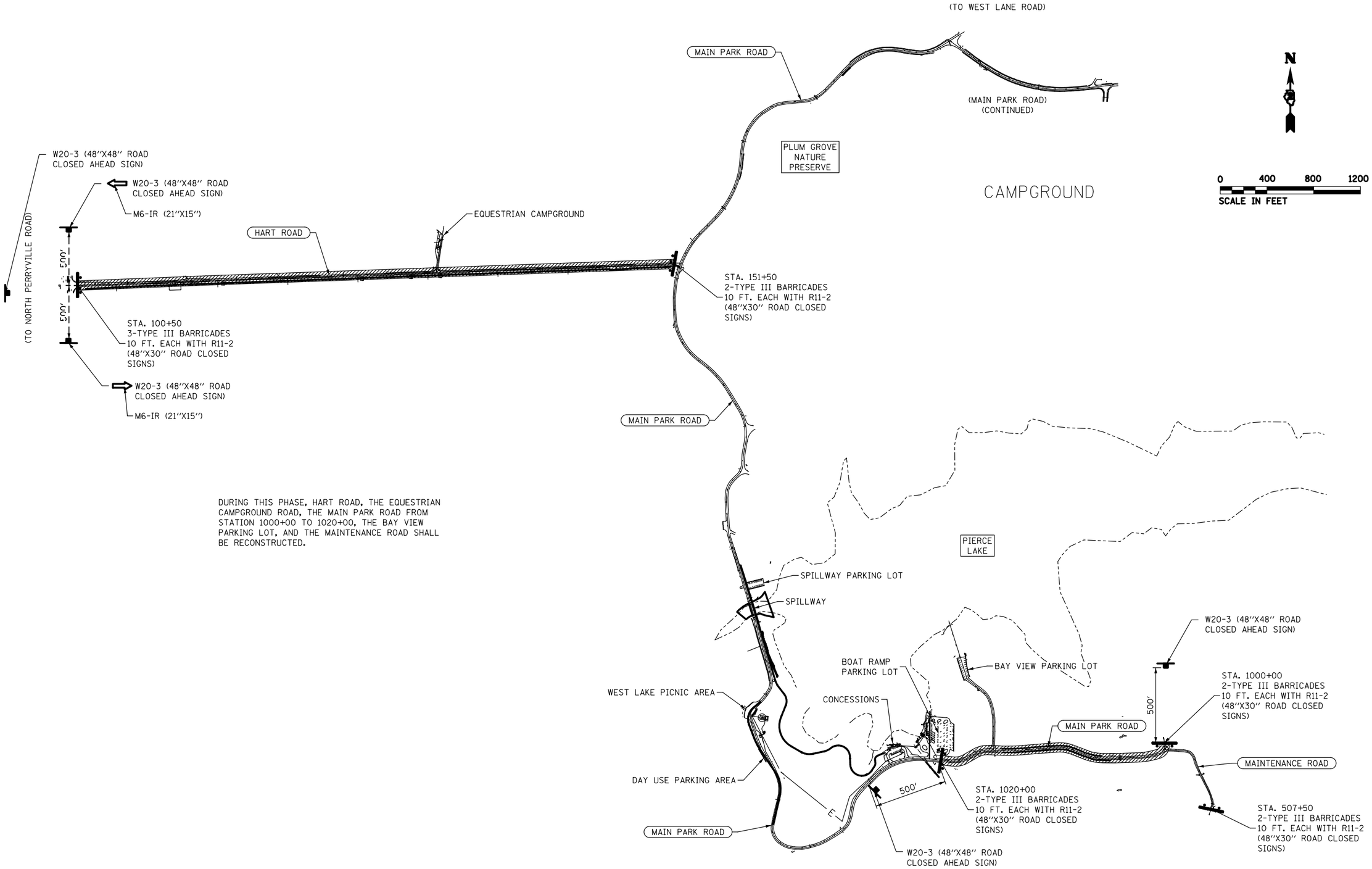
FILE NAME = *FILES* *MODELNAME*	USER NAME = *USER*	DESIGNED - R.H.D.	REVISED -
		DRAWN - S.D.K.	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -
	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NEW SHARED USE PATH EROSION CONTROL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 917+00.00 TO STA. 921+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	215
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		



DURING THIS PHASE, HART ROAD, THE EQUESTRIAN CAMPGROUND ROAD, THE MAIN PARK ROAD FROM STATION 1000+00 TO 1020+00, THE BAY VIEW PARKING LOT, AND THE MAINTENANCE ROAD SHALL BE RECONSTRUCTED.

PHASE 1

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - D.R.C.	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL – PHASE 1
ROCK CUT STATE PARK

SCALE: 1" = 400' | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	216
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

(TO NORTH PERRYVILLE ROAD)

HART ROAD

EQUESTRIAN CAMPGROUND

MAIN PARK ROAD

(TO WEST LANE ROAD)

(MAIN PARK ROAD)
(CONTINUED)

PLUM GROVE
NATURE
PRESERVE

CAMPGROUND

N

0 400 800 1200
SCALE IN FEET

MAIN PARK ROAD

PIERCE
LAKE

SPILLWAY PARKING LOT

SPILLWAY

BOAT RAMP
PARKING LOT

BAY VIEW PARKING LOT

(MAIN PARK ROAD)
(CONTINUED)

WEST LAKE PICNIC AREA

CONCESSIONS

MAIN PARK ROAD

MAINTENANCE ROAD

DAY USE PARKING AREA

MAIN PARK ROAD

STA. 1025+00
2-TYPE II BARRICADES
10 FT. EACH WITH R11-2
(48"X30" ROAD CLOSED
SIGNS)

PARK OFFICE /
MAINTENANCE AREA

(TO HARLEM ROAD)

DURING THIS PHASE, THE CONCESSION AREA AND THE BOAT RAMP PARKING LOTS SHALL BE CLOSED TO TRAFFIC AND RECONSTRUCTED. THE MAIN PARK ROAD FROM STATION 1020+00 TO 1025+00 SHALL BE RECONSTRUCTED UNDER TRAFFIC. THE SHARED USE PATH FROM STATION 900+50 TO 917+00 SHALL BE CONSTRUCTED

PHASE 2

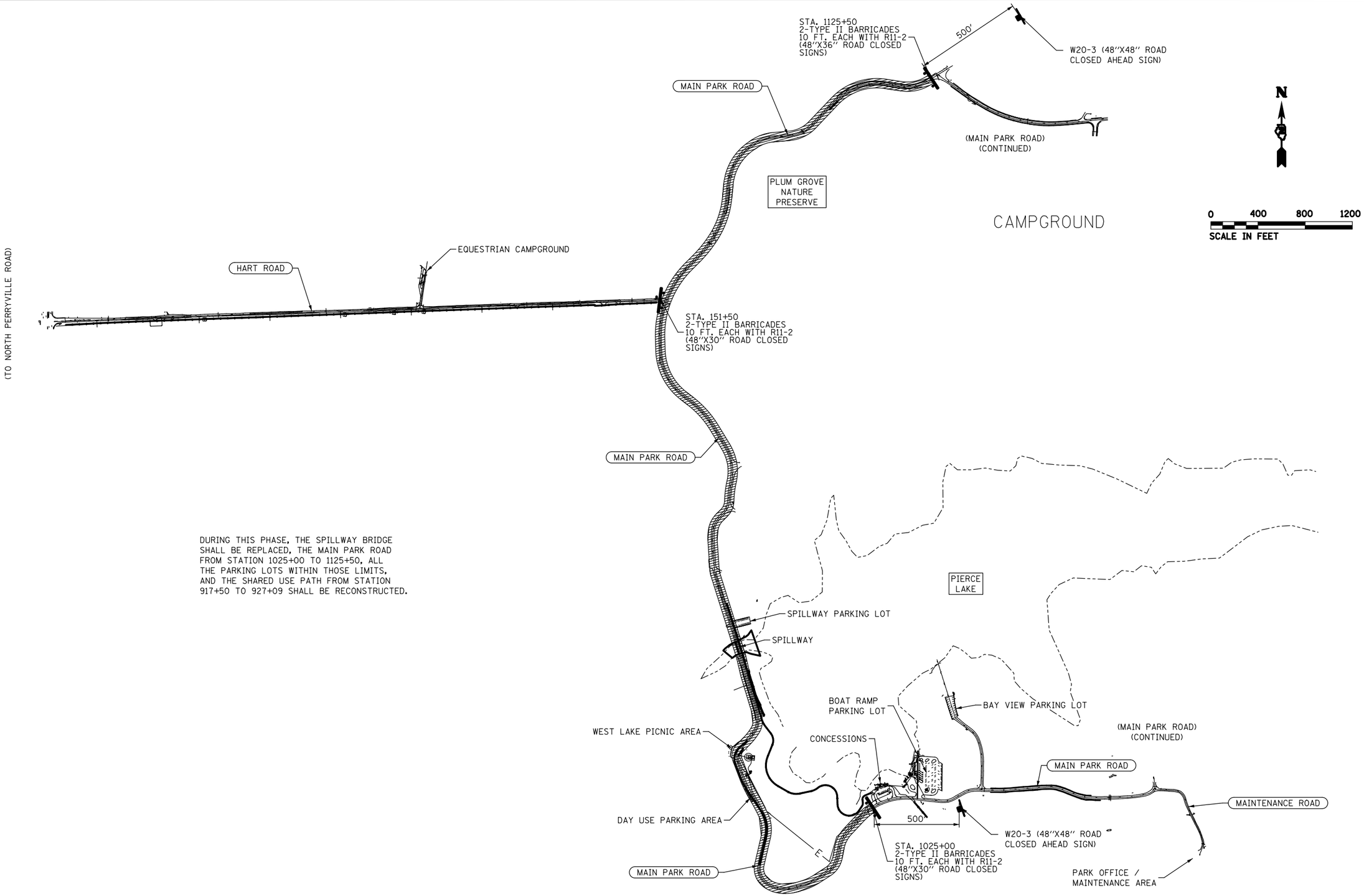
FILE NAME =	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
$FILEL$		DRAWN - D.R.C.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL – PHASE 2
ROCK CUT STATE PARK

SCALE: 1" = 400' | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	217
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



DURING THIS PHASE, THE SPILLWAY BRIDGE SHALL BE REPLACED, THE MAIN PARK ROAD FROM STATION 1025+00 TO 1125+50, ALL THE PARKING LOTS WITHIN THOSE LIMITS, AND THE SHARED USE PATH FROM STATION 917+50 TO 927+09 SHALL BE RECONSTRUCTED.

PHASE 3

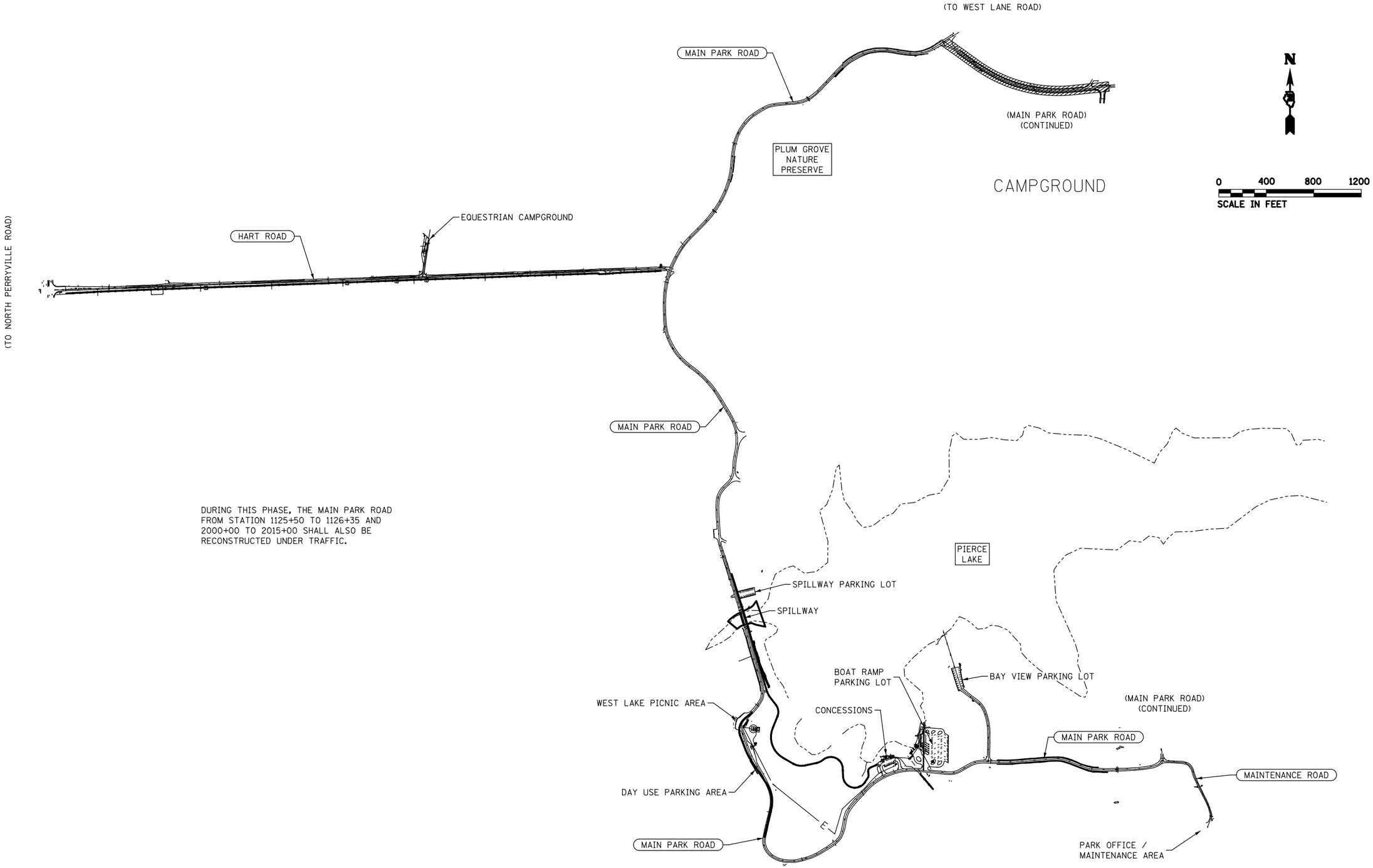
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - D.R.C.	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL – PHASE 3
ROCK CUT STATE PARK

SCALE: 1" = 400' | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	218
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



DURING THIS PHASE, THE MAIN PARK ROAD FROM STATION 1125+50 TO 1126+35 AND 2000+00 TO 2015+00 SHALL ALSO BE RECONSTRUCTED UNDER TRAFFIC.

PHASE 4

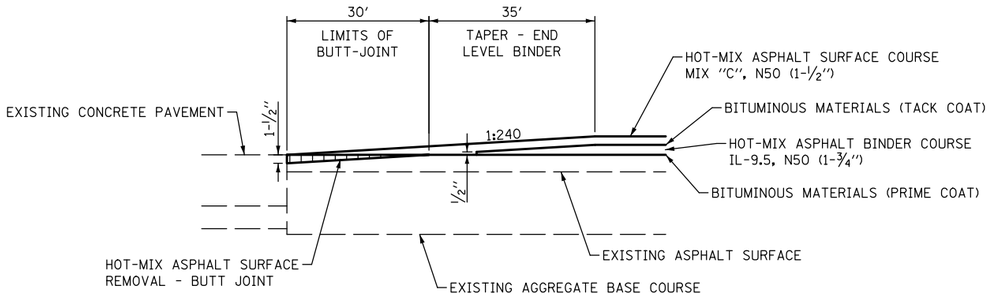
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - D.R.C.	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL – PHASE 4
ROCK CUT STATE PARK

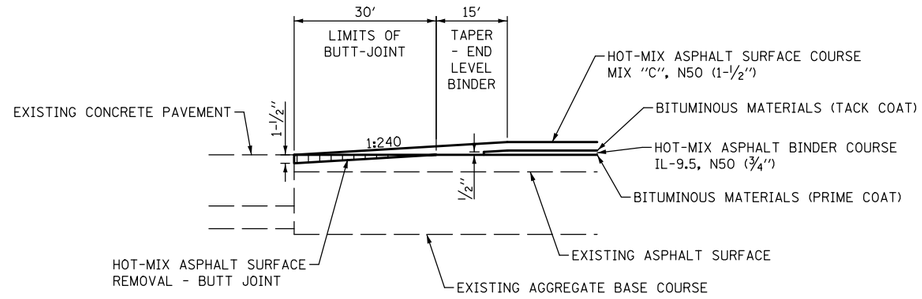
SCALE: 1" = 400' | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	219
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



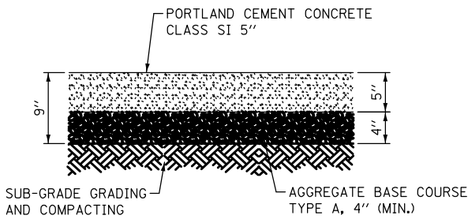
BUTT JOINT DETAIL (HART ROAD & MAINTENANCE ROAD)

NOT TO SCALE



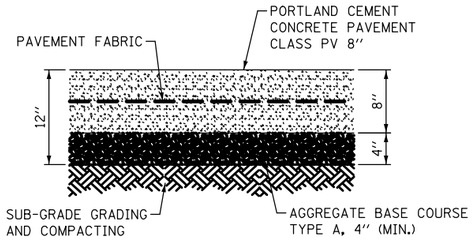
BUTT JOINT DETAIL (MAIN PARK ROAD & EQUESTRIAN AREA)

NOT TO SCALE



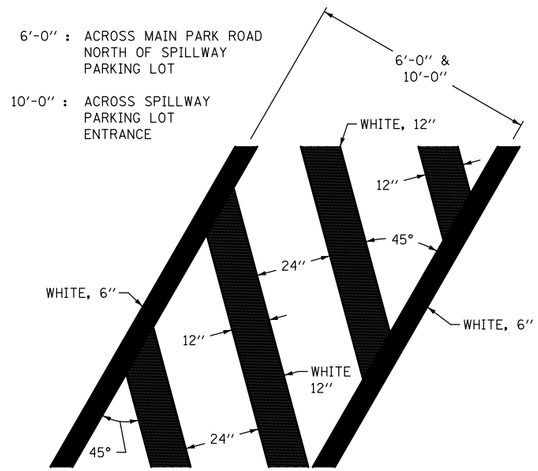
PORTLAND CEMENT CONCRETE SIDEWALK, 5"

NOT TO SCALE



8" CONCRETE DUMPSTER PAD

NOT TO SCALE



STRIPED CROSSWALK

SPILLWAY PARKING LOT

NOT TO SCALE

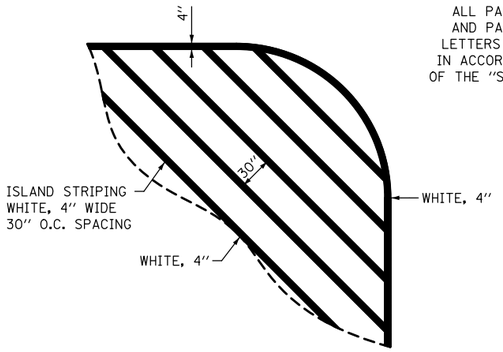
FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - D.R.C.	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS – SITE DETAILS (1 OF 4)
ROCK CUT STATE PARK

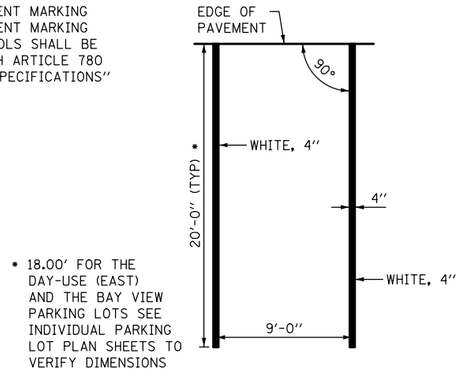
SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	220
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



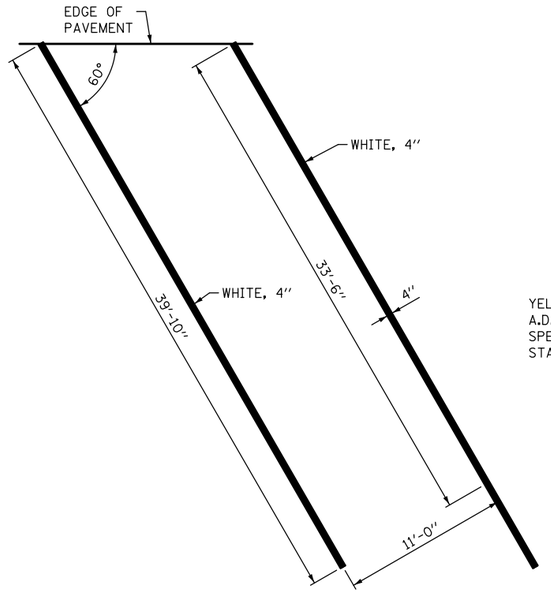
ALL PAINT PAVEMENT MARKING AND PAINT PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE IN ACCORDANCE WITH ARTICLE 780 OF THE "STANDARD SPECIFICATIONS"

ISLAND STRIPING 4", WHITE (30" O.C.)
NOT TO SCALE

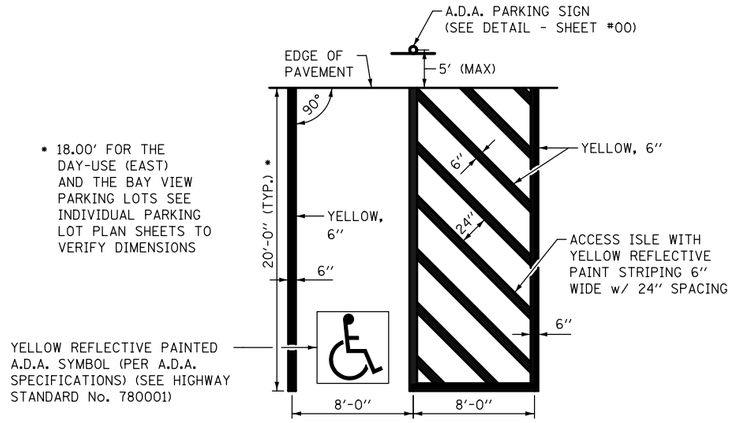


• 18.00' FOR THE DAY-USE (EAST) AND THE BAY VIEW PARKING LOTS SEE INDIVIDUAL PARKING LOT PLAN SHEETS TO VERIFY DIMENSIONS

90° PARKING STRIPING, WHITE (4")
NOT TO SCALE



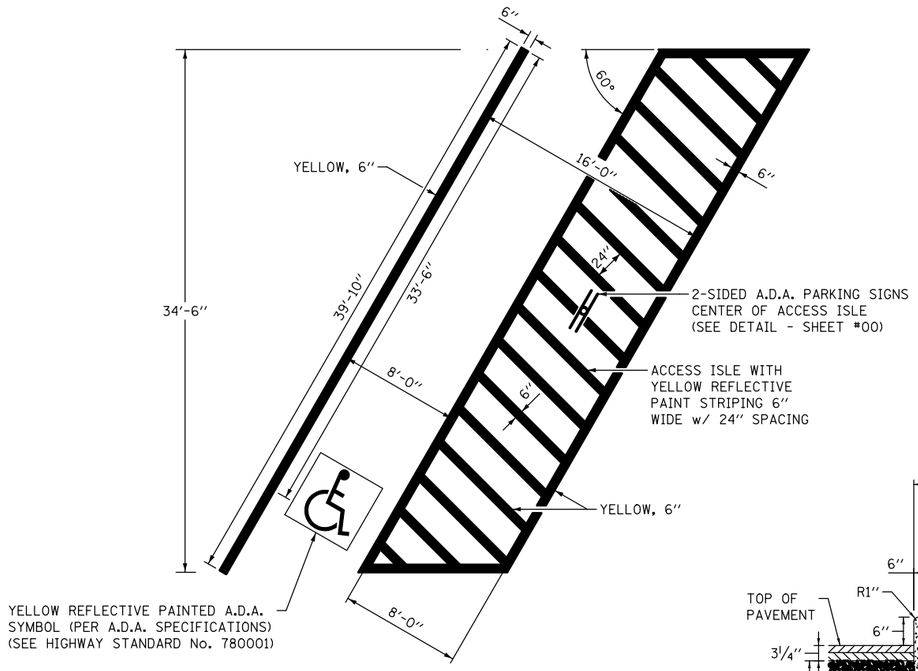
60° PARKING STRIPING, WHITE (4")
(BOAT RAMP PARKING LOT)
NOT TO SCALE



• 18.00' FOR THE DAY-USE (EAST) AND THE BAY VIEW PARKING LOTS SEE INDIVIDUAL PARKING LOT PLAN SHEETS TO VERIFY DIMENSIONS

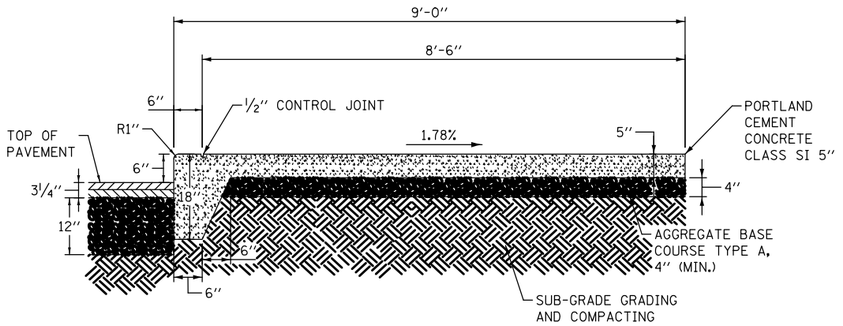
YELLOW REFLECTIVE PAINTED A.D.A. SYMBOL (PER A.D.A. SPECIFICATIONS) (SEE HIGHWAY STANDARD No. 780001)

90° A.D.A. PARKING STRIPING, YELLOW (6")
(BOAT RAMP PARKING LOT)
NOT TO SCALE

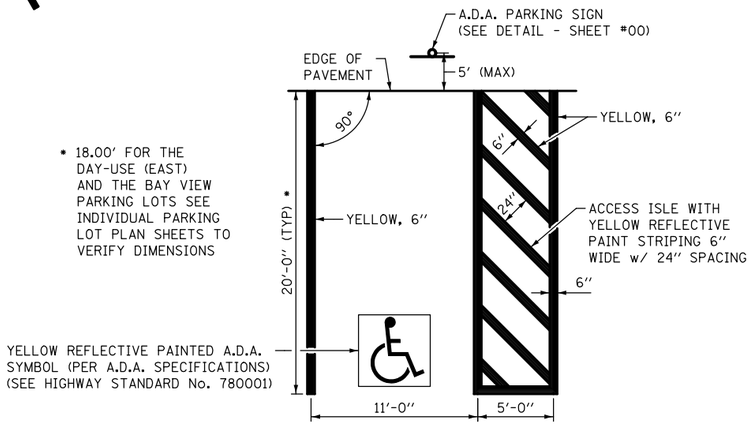


YELLOW REFLECTIVE PAINTED A.D.A. SYMBOL (PER A.D.A. SPECIFICATIONS) (SEE HIGHWAY STANDARD No. 780001)

60° A.D.A. PARKING STRIPING, YELLOW (6")
(BOAT RAMP PARKING LOT)
NOT TO SCALE



INTEGRAL WALK AND CURB
(BOAT RAMP PARKING LOT)
NOT TO SCALE



• 18.00' FOR THE DAY-USE (EAST) AND THE BAY VIEW PARKING LOTS SEE INDIVIDUAL PARKING LOT PLAN SHEETS TO VERIFY DIMENSIONS

YELLOW REFLECTIVE PAINTED A.D.A. SYMBOL (PER A.D.A. SPECIFICATIONS) (SEE HIGHWAY STANDARD No. 780001)

90° A.D.A. PARKING STRIPING, YELLOW (6")
NOT TO SCALE

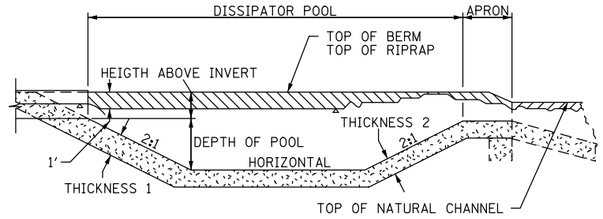
FILE NAME =	USER NAME = $USER$	DESIGNED -	REVISED -
$FILES$		DRAWN - D.R.C.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS – SITE DETAILS (2 of 4)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	221
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

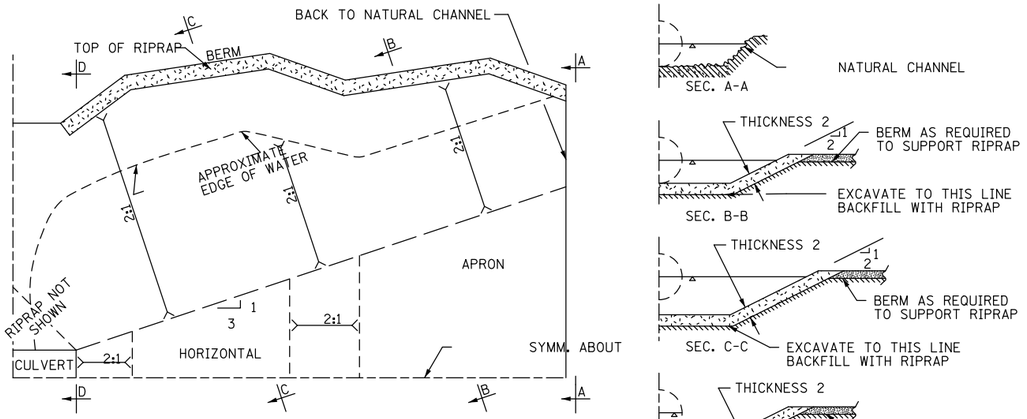


PLUNGE POOL ℄ SECTION

NOT TO SCALE

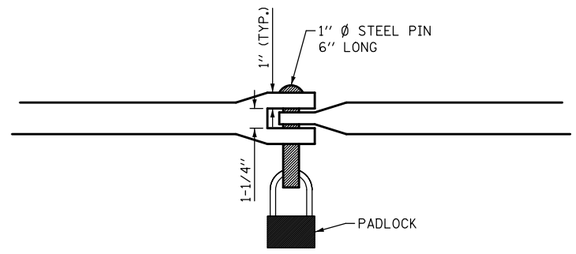
RIPRAP BASIN SIZING

STATION LOCATION	PIPE SIZE	RIPRAP AREA (SQ YD)	POOL LENGTH (FEET)	APRON LENGTH (FEET)	DEPTH OF POOL (FEET)	HEIGHT ABOVE INVERT (FEET)	RIPRAP GRAD.	THICK. 1 (FEET)	THICK. 2 (FEET)
HART ROAD									
LT 104+62	36"	21	9	3	0.42	0.8	RR4	2.5	1.9
LT 113+93	18"	12	5	2	0.25	0.8	RR4	2.5	1.9
LT 123+09	36"	30	9	3	0.43	1.0	RR5	3.3	2.5
LT 126+80	12"	5	3	1	0.09	0.7	RR3	1.7	1.2
RT 126+80	12"	10	3	1	0	0.8	RR3	1.7	1.2
LT 140+12	15"	9	4	2	0.31	0.8	RR3	1.7	1.2
LT 144+62	15"	6	4	1	0.04	0.8	RR3	1.7	1.2
LT 149+04	18"	9	5	2	0.12	0.9	RR3	1.7	1.2
MAINTENANCE ROAD									
RT 507+09	EQV 30"	30	10	3	0	1.0	RR3	1.7	1.2
BIKE PATH									
LT 907+20	12"	5	3	1	0.1	0.6	RR3	1.7	1.2
LT 910+50	12"	5	3	1	0.12	0.7	RR3	1.7	1.2
LT 914+00	12"	7	3	1	0.14	0.7	RR4	2.5	1.9
MAIN ROAD									
RT 1004+79	1'X6'	349	35	12	0	3.2	RR3	1.7	1.2
LT 1021+93	27"	14	7	3	0.64	0.9	RR4	2.5	1.9
LT 1027+25	42"	81	11	19	0.09	1.6	RR3	1.7	1.2
LT 1041+90	15"	9	4	6	0.25	0.7	RR4	2.5	1.9
LT 1051+93	12"	5	3	1	0	0.6	RR3	1.7	1.2
RT 1067+24	12"	6	3	2	0.14	0.7	RR3	1.7	1.2
LT 1086+75	12"	5	3	1	0.07	0.7	RR3	1.7	1.2
LT 1090+77	12"	5	3	1	0	0.8	RR3	1.7	1.2
LT 1094+24	EQV 24"	15	8	3	0	0.9	RR3	1.7	1.2
LT 1098+12	24"	11	6	2	0.09	0.8	RR3	1.7	1.2
LT 805+50	EQV 24"	15	8	3	0	1.0	RR3	1.7	1.2
LT 1111+96	30"	20	8	3	0.33	1.1	RR3	1.7	1.2
LT 1125+12	24"	12	6	2	0.06	1.0	RR3	1.7	1.2



PLUNGE POOL HALF PLAN

NOT TO SCALE

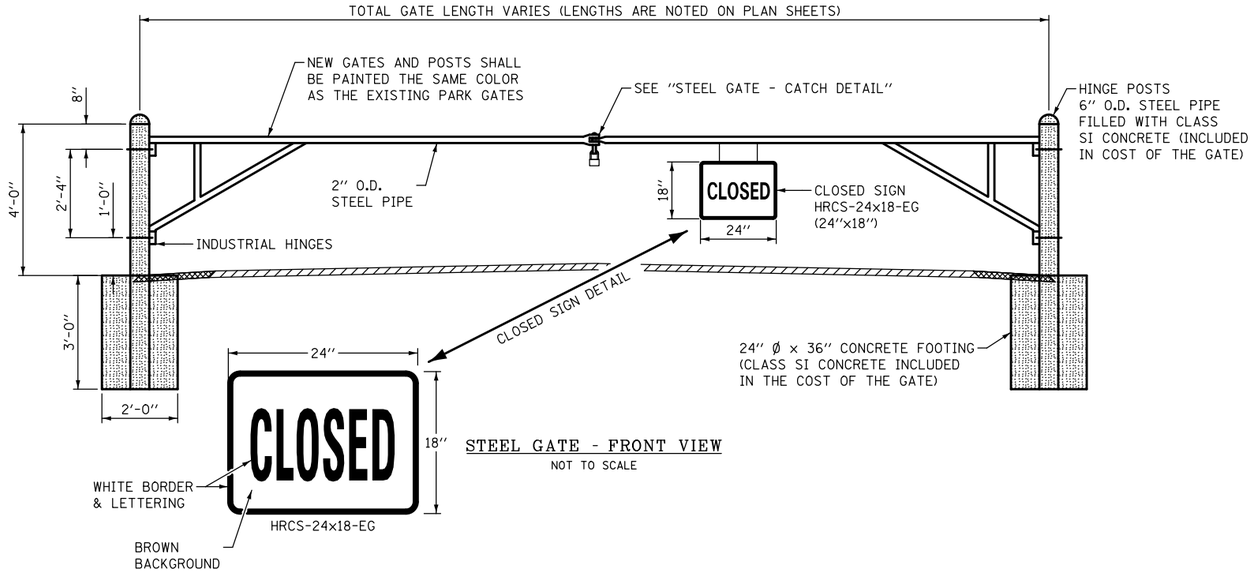


STEEL GATE - CATCH DETAIL

NOT TO SCALE

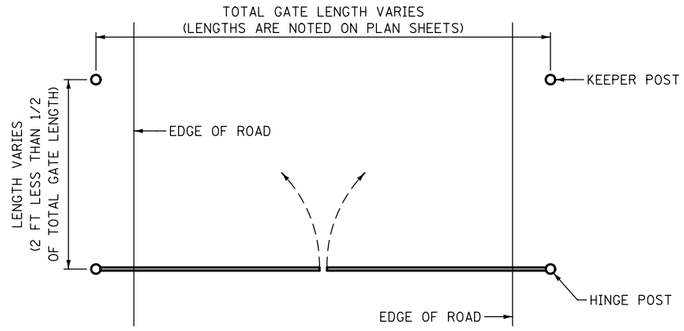
X0323013 TUBULAR STEEL GATE

STATION	ROAD	GATE LENGTH
20+70.70	EQUESTRIAN CAMPGROUND	18'
104+61.17	HART ROAD	22'-2"
151+10.00	HART ROAD	24'
500+54.99	MAINTENANCE ROAD	22'
507+30.00	MAINTENANCE ROAD	22'
1124+00.00	MAIN PARK ROAD	36'
2015+00.00	MAIN PARK ROAD	36'



STEEL GATE - FRONT VIEW

NOT TO SCALE



STEEL GATE - PLAN VIEW

NOT TO SCALE

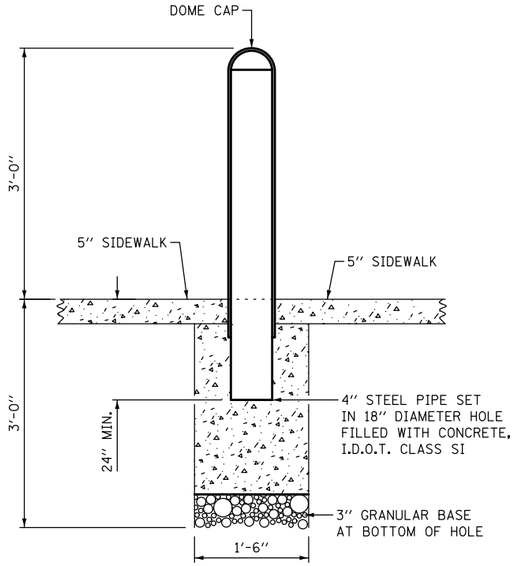
FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - D.R.C.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

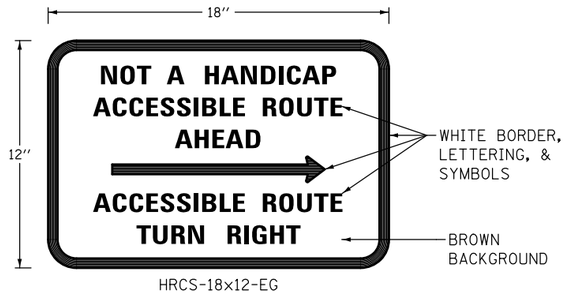
DETAILS - SITE DETAILS (3 OF 4)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	222
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

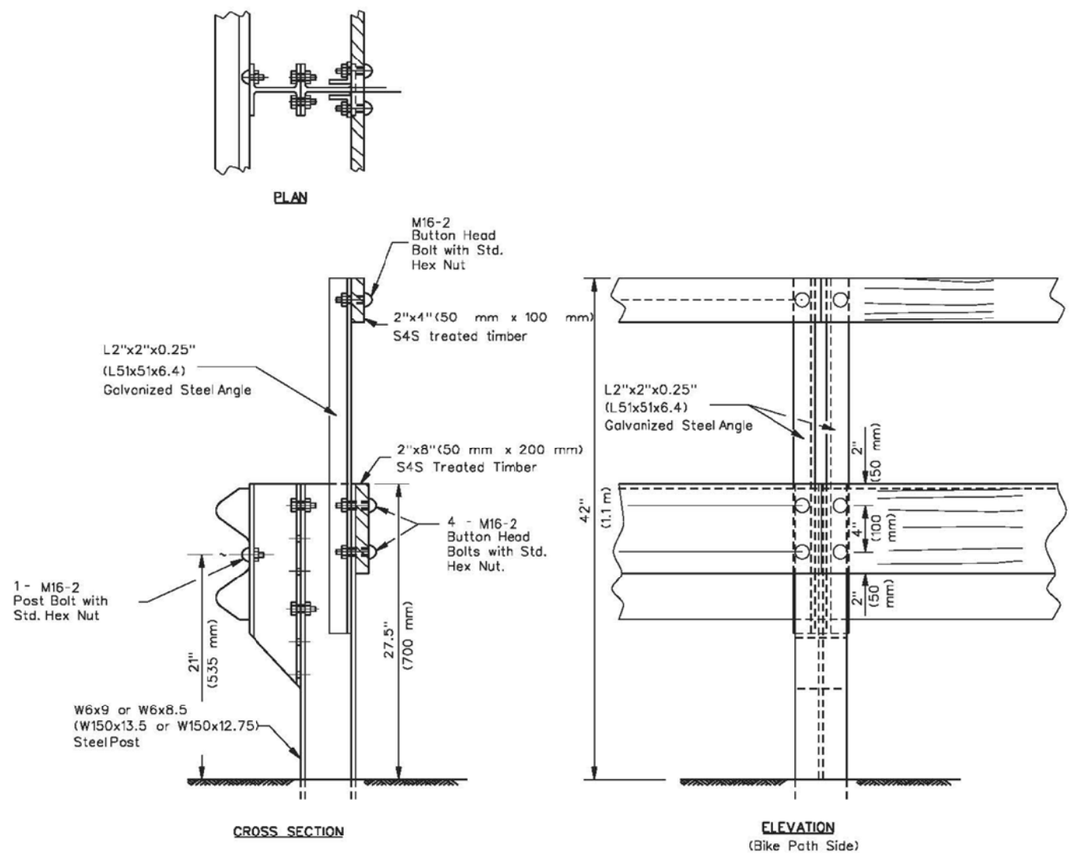


BOLLARD DETAIL (Z0004002)
NOT TO SCALE



HRCS-18x12-EG

HANDICAP ACCESSIBLE ROUTE SIGN
NOT TO SCALE



SHARED USE PATH APPROACH GUARDRAIL RAILING EXTENSION
NOT TO SCALE

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - D.R.C.	REVISED -
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS – SITE DETAILS (4 OF 4)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	223
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		

C2011600
SHRUB, VIBURNUM DENTATUM BLUE MUFFIN (BLUE MUFFIN ARROWHEAD), 3' HEIGHT, BALLED AND BURLAPPED
STA. 1024+63, 137.0' RT TO
STA. 1025+18, 128.5' RT
17 EACH

X054000
BRICK PAVERS
STA. 1024+60, 140' RT TO
STA. 1025+20, 123.5' RT
16 SQ FT

A2002316
TREE, BETULA NIGRA (RIVER BIRCH), 2" CALIPER, BALLED AND BURLAPPED
STA. 1025+47, 108' RT &
STA. 1025+59, 107' RT
2 EACH

PIERCE LAKE

CONCESSION AREA

0 10 20 30
SCALE IN FEET

N

C2C10218
SHRUB, SPIREA JAPONICA LITTLE PRINCESS (LITTLE PRINCESS JAPANESE SPIREA), 18" HEIGHT, CONTAINER
STA. 1024+58, 136' RT TO
STA. 1024+62, 143' RT
7 EACH

K1005481
SHREDDED BARK MULCH 3"
STA. 1024+56, 134' RT TO
STA. 1025+20, 123.5' RT
64 SQ YD

ALL DESIGNATED AREAS SHALL BE COVERED WITH APPROVED MULCH 3" DEEP

C2011600
SHRUB, VIBURNUM DENTATUM BLUE MUFFIN (BLUE MUFFIN ARROWHEAD), 3' HEIGHT, BALLED AND BURLAPPED
STA. 1024+97, 74.5' RT TO
STA. 1025+24, 81.5' RT
9 EACH

A2002227
TREE, ALNUS GLUTINOSA (COMMON EUROPEAN ADLER), 3" CALIPER, BALLED AND BURLAPPED
STA. 1023+63, 78.0' RT &
STA. 1023+73, 84.0' RT
2 EACH

A2006522
TREE, ULMUS PARVIFOLIA ALLEE (ALLEE LACEBARK ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED
STA. 1025+02, 64.5' RT
1 EACH

A2006522
TREE, ULMUS PARVIFOLIA ALLEE (ALLEE LACEBARK ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED
STA. 1025+04, 41.5' RT
1 EACH

C2012136
SHRUB, VIBURNUM X JUDDII (JUDD VIBURNUM), 3' HEIGHT, BALLED AND BURLAPPED
STA. 1023+61, 66.5' RT TO
STA. 1023+76, 50.0' RT
5 EACH

A2006606
TREE, QUERCUS COCCINEA (SCARLET OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED
STA. 1025+76, 77' RT
STA. 1025+87, 26' RT
STA. 1025+90, 57' RT
3 EACH

A2000220
TREE, ACER X FREEMANII MARMO (MARMO FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED
STA. 1023+92, 47.5' RT TO
STA. 1024+62, 70.5' RT
5 EACH

1025+00

1024

MAIN PARK ROAD

BRICK PAVERS - HOLLAND TYPE
4"X8"X2" DEPTH ON EDGE
WITH A MIN. 1/2" EXPOSURE

SHREDDED BARK MULCH, 3"

EXISTING SUB SOIL

BRICK PAVER DETAIL

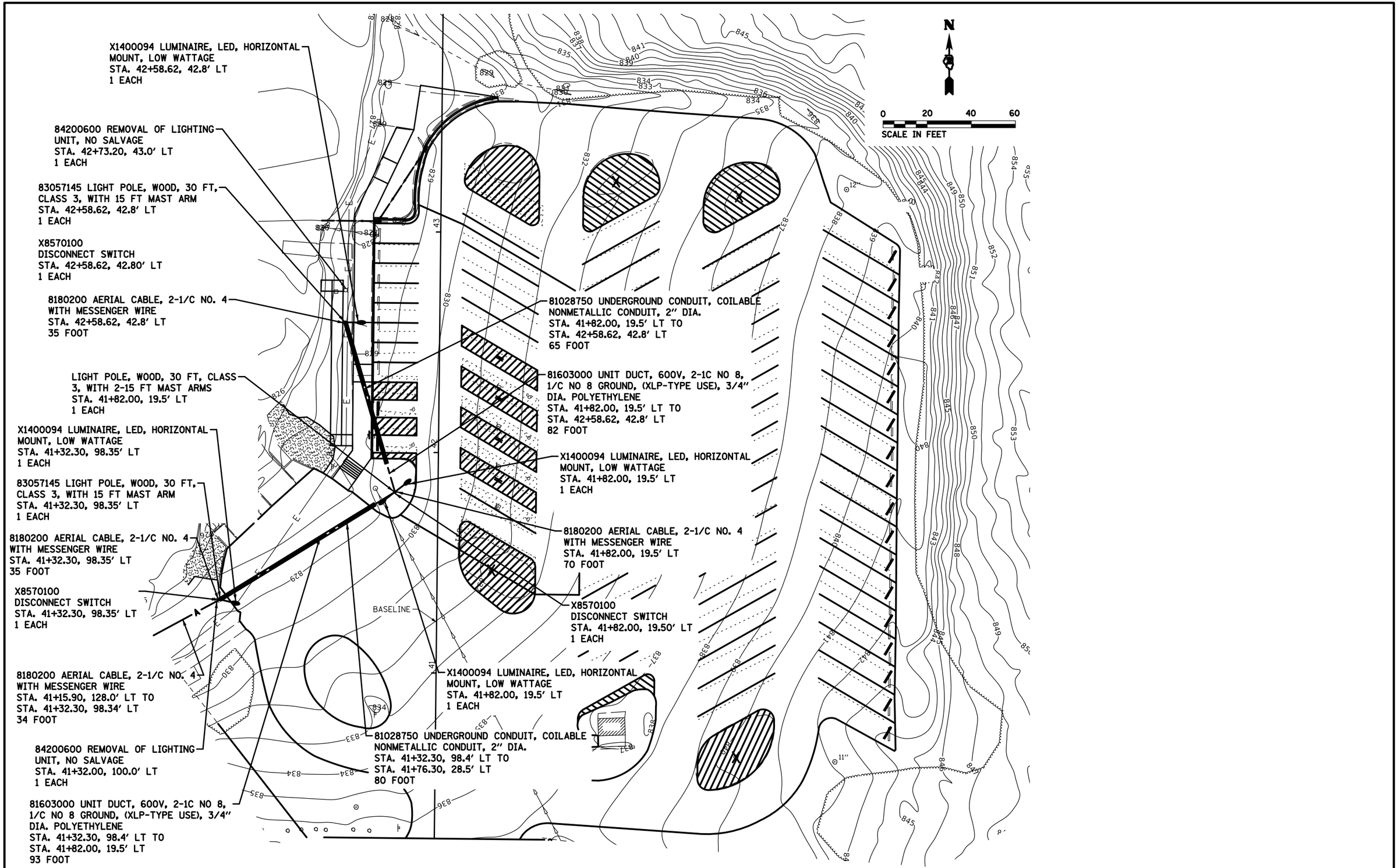
NOT TO SCALE

FILE NAME =	USER NAME = *USER*	DESIGNED -	R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
FILES		DRAWN -	S.D.K.	REVISED -	
	PLOT SCALE = *SCALE*	CHECKED -	R.H.D.	REVISED -	
MODELNAME	PLOT DATE = *DATE*	DATE -	08/31/18	REVISED -	

CONCESSION PARKING LOT LANDSCAPE PLAN
ROCK CUT STATE PARK

SCALE: 1" = 10' | SHEET OF SHEETS | STA. 1023+61.00 TO STA. 1025+90.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	224
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



FILE NAME =	USER NAME = *USER*	DESIGNED - R.H.D./D.R.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BOAT RAMP PARKING LOT – ELECTRICAL ROCK CUT STATE PARK
FILES		DRAWN - S.D.K.	REVISED -		
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -		
MODELNAME	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 40+25.00 TO STA. 44+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	225
		CONTRACT NO. 46903		
		ILLINOIS FED. AID PROJECT		

8180200 AERIAL CABLE, 2-1/C NO. 4
WITH MESSENGER WIRE
STA. 1022+50.00, 112.0' RT TO
STA. 1023+74.00, 69.0' RT
126 FOOT

X1400094 LUMINAIRE, LED, HORIZONTAL
MOUNT, LOW WATTAGE
STA. 1023+74.00, 69.0' RT
1 EACH

83057145 LIGHT POLE, WOOD, 30 FT,
CLASS 3, WITH 15 FT MAST ARM
STA. 1023+74.00, 69.0'
1 EACH

84200600 REMOVAL OF LIGHTING
UNIT, NO SALVAGE
STA. 1023+83.20, 70.50' RT
1 EACH

EXISTING UTILITY POLE

EXISTING UNDERGROUND
SERVICE CABLE

X8570100
DISCONNECT SWITCH
STA. 1023+74, 69' LT
1 EACH

EXISTING TRANSFORMER

PIERCE
LAKE

BIKE LANE MARKINGS
(SEE DETAIL 00 - SHEET 00)

MATCH LINE 1022+50.00
(SEE SHEET 00)

MATCH LINE 1027+50.00
(SEE SHEET 00)

N

0 20 40 60
SCALE IN FEET

FILE NAME = $FILES$ / $MODELNAME$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
		DRAWN - S.D.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN PARK ROAD (CONCESSION AREA) – ELECTRICAL
ROCK CUT STATE PARK

SCALE: 1" = 20' | SHEET OF SHEETS | STA. 1022+50.00 TO STA. 1027+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	226
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

0 20 40 60
SCALE IN FEET

81603000 UNIT DUCT, 600V, 2-1C NO 8, 1/C NO 8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
STA. 705+75, 29.5' RT TO
STA. 706+15, 33.0' RT
35 FOOT

83057145 LIGHT POLE, WOOD, 30 FT, CLASS 3, WITH 15 FT MAST ARM
STA. 706+15, 33.0' RT
1 EACH

84200600 REMOVAL OF LIGHTING UNIT, NO SALVAGE
STA. 706+70, 27.25' RT
1 EACH

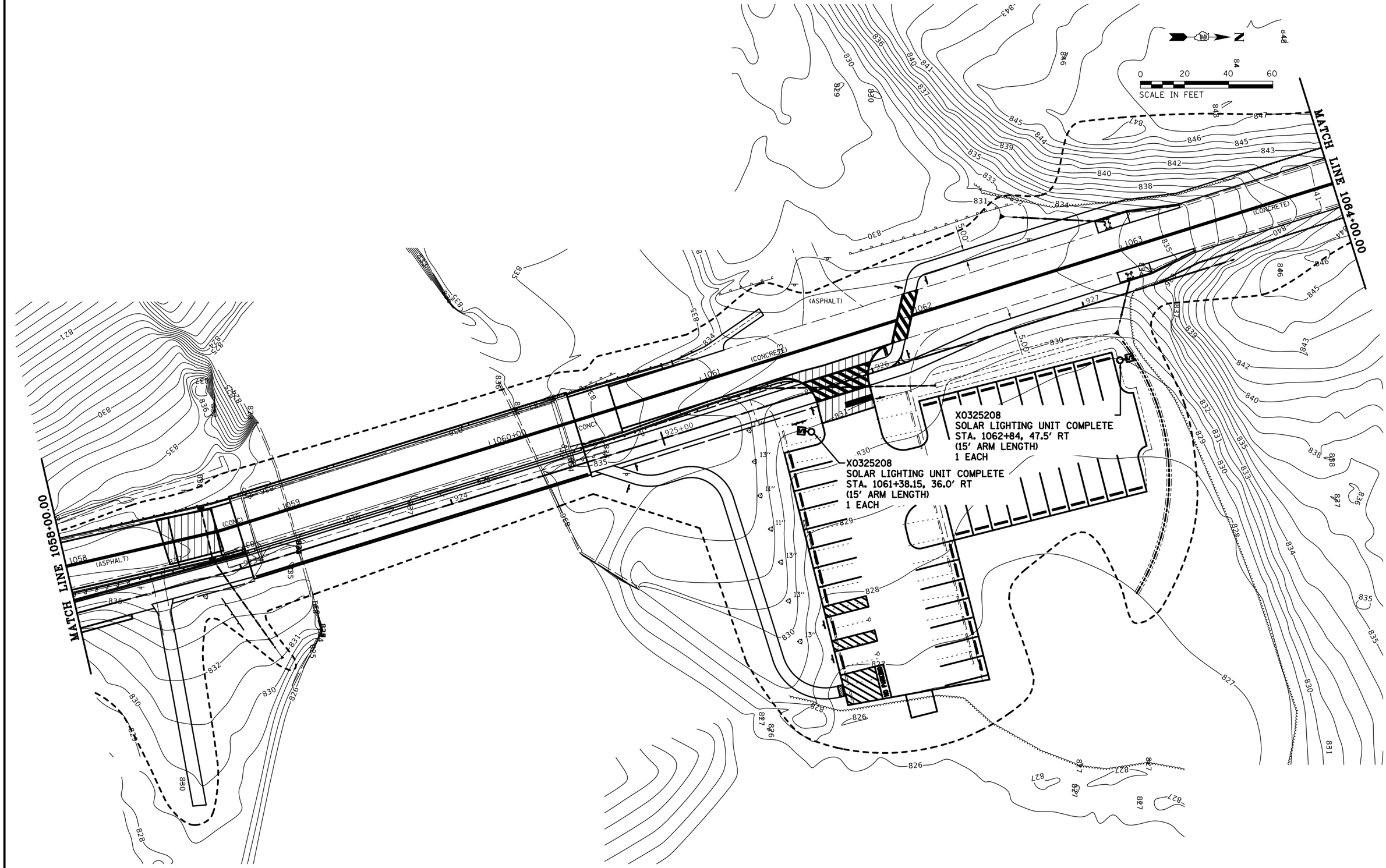
X1400094 LUMINAIRE, LED, HORIZONTAL MOUNT, LOW WATTAGE
STA. 706+15, 33.0' RT
1 EACH

X8570100 DISCONNECT SWITCH
STA. 706+15, 33.0' RT
1 EACH

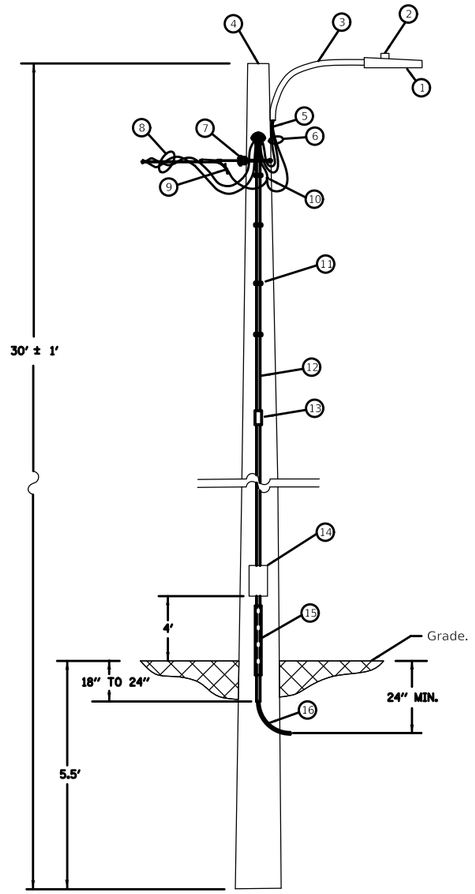
RESTROOMS
SHELTER
(ASPHALT)
25" STUMP

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN PARK ROAD (DAY USE/WEST LAKE PICNIC AREA) – ELECTRICAL ROCK CUT STATE PARK
		DRAWN - S.D.K.	REVISED -		SCALE: 1" = 20' SHEET OF SHEETS STA. 702+00.00 TO STA. 1052+00.00
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PARK ROADS 2017-01	WINNEBAGO	406	227
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



FILE NAME = ⊕FILES⊕ ⊕MODELNAME⊕	USER NAME = ⊕USER⊕	DESIGNED – R.H.D.	REVISED –	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN PARK ROAD & SPILLWAY PARKING LOT – ELECTRICAL ROCK CUT STATE PARK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN – D.R.C.	REVISED –				PARK ROADS 2017-01	WINNEBAGO	406	228
	PLOT SCALE = ⊕SCALE⊕	CHECKED – R.H.D.	REVISED –					CONTRACT NO. 46903		
	PLOT DATE = ⊕DATE⊕	DATE – 08/31/18	REVISED –		SCALE: 1" = 20' SHEET OF SHEETS STA. 1058+00.00 TO STA. 1064+00.00			ILLINOIS FED. AID PROJECT		



SECURITY LIGHT POLE DETAIL
(NOT TO SCALE)
SINGLE LUMINAIRE AND ARM WITH UNDERGROUND CONNECTION SHOWN
SOME LOCATIONS HAVE MULTIPLE ARMS AND LUMINAIRES
ORIENTED AS SHOWN ON THE LIGHTING PLANS

1. LED Luminaire, Low Wattage, Type IV
2. Photocell
3. Arm, length as noted on lighting plans
4. Wood light pole, 30', class 3 (typ.) *
5. Cable clamps on 24 (600) centers
6. Three #10 XLP-USE cable
7. Heavy duty insulated pulley clevis with mounting bolt and hardware
8. Aerial Cable #6 with messenger wire
9. Ground clamp
10. Waterproof insulation piercing tap connector
11. Malleable iron conduit clamps, 5' intervals
12. 1" DIA. PVC sch 80 conduit
13. Typ. coupler
14. Fused disconnect switch with surge protection enclosed in NEMA 4x lockable enclosure
15. Galvanized Steel U-Guard
16. Unit duct, size as noted on lighting plans

* Size larger as needed

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDTIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

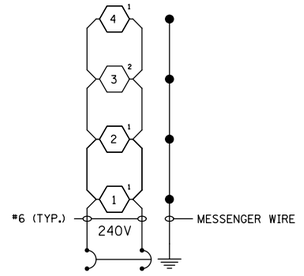
A — SOLAR LIGHTING UNIT COMPLETE

A^B — LED LIGHTING UNIT

GROUND ROD

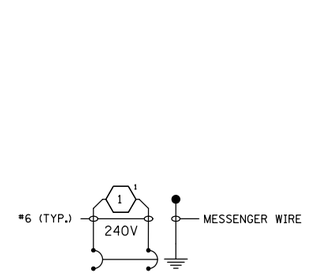
A = LIGHT POLE DESIGNATION

B = NUMBER OF LUMINARIES INSTALLED ON LIGHT POLE



2 POLE 15 AMP BREAKER
CKT #1

CONCESSIONS
AND
BOAT RAMP
PARKING LOTS



2 POLE 15 AMP BREAKER
CKT #1

DAY PARKING LOT

1 2

SPILLWAY PARKING LOT

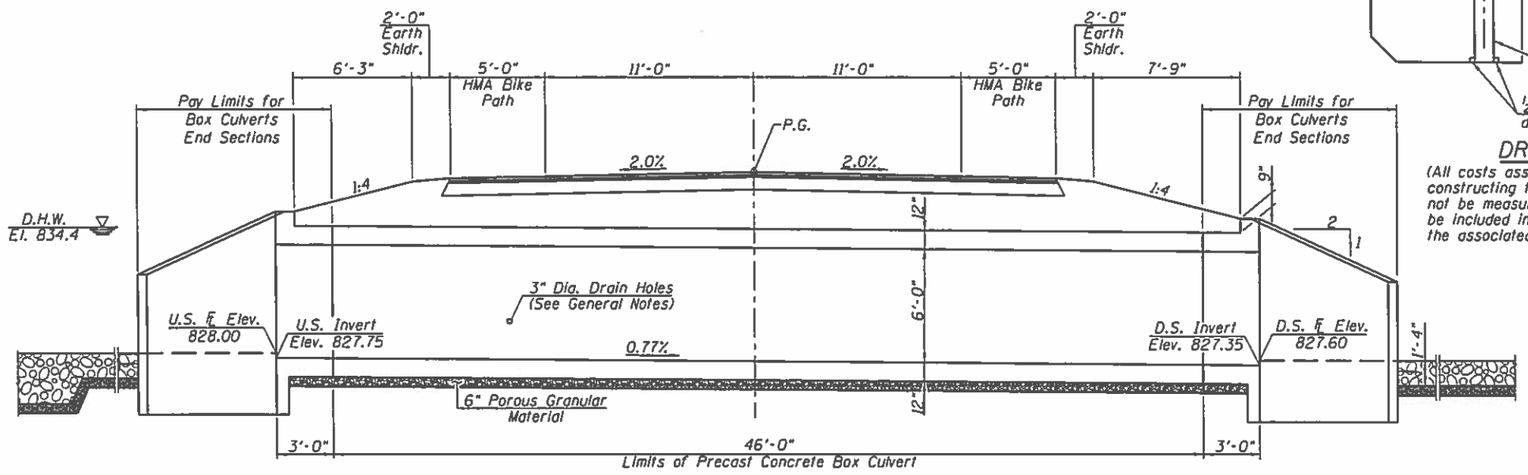
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIRING & DETAIL ROCK CUT STATE PARK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - S.D.K.	REVISED -				ROCK CUT 2018	WINNEBAGO	406	229
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -					CONTRACT NO. 46903		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

Benchmark: IDNR Tablet west-southwest of concession building.
134.0' Rt. Sta. 1025+29 Elev. 829.133

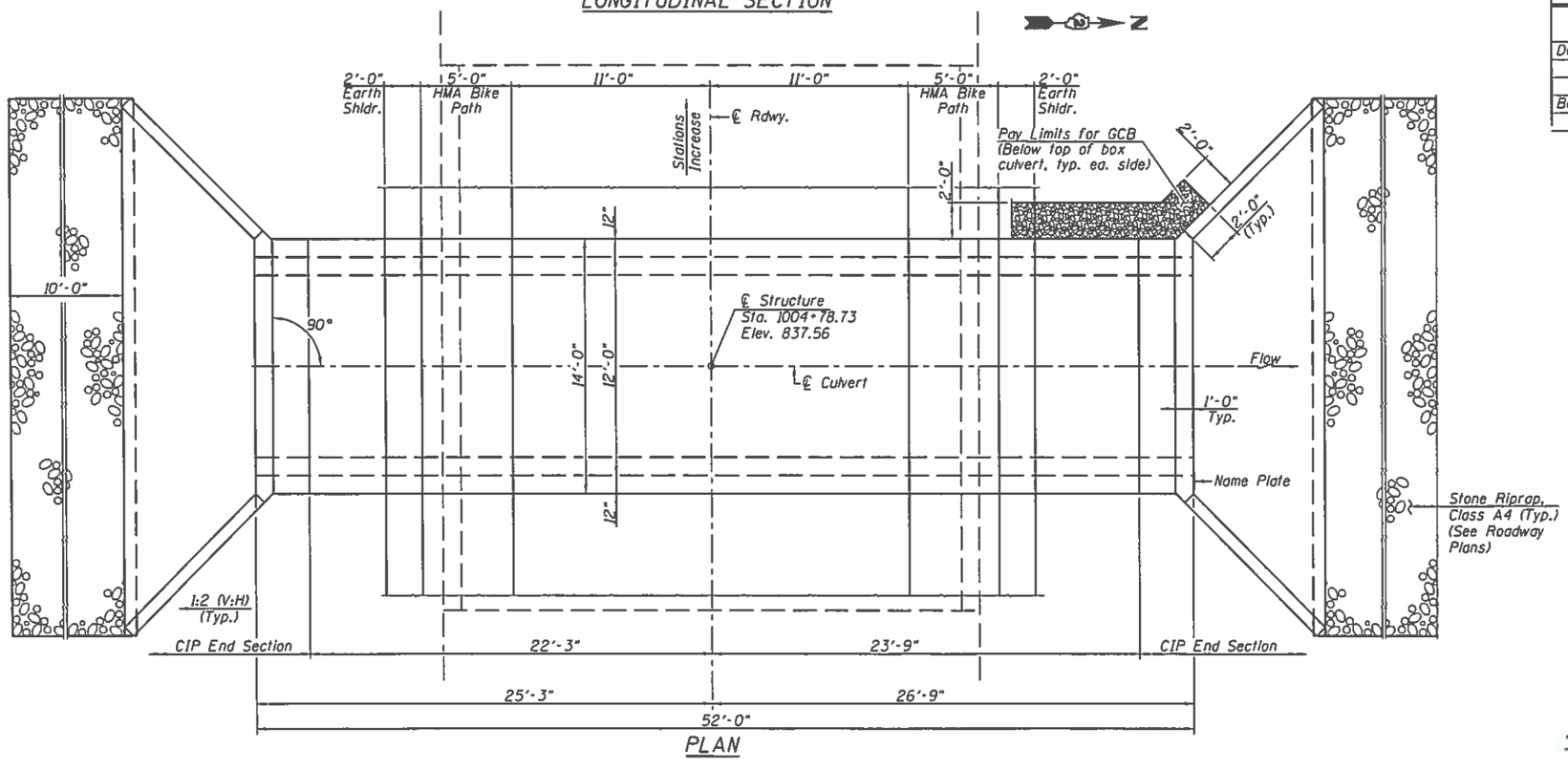
Existing Structure: Three corrugated metal pipe culverts. Two are 60" diameter and one is 84" diameter. Traffic to be detoured. Project will be built under road closure.

No salvage

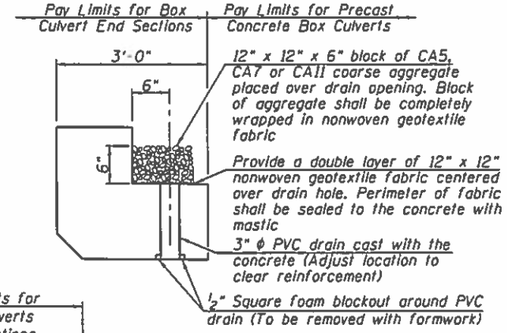
INDEX OF SHEETS



LONGITUDINAL SECTION



PLAN



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

GENERAL NOTES

The design fill height for this box is 3 ft. This precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Granular Culvert Backfill as shown on sheet 4 of 5. Granular Culvert Backfill shall extend 2 ft. beyond the headwalls.

TOTAL BILL OF MATERIAL

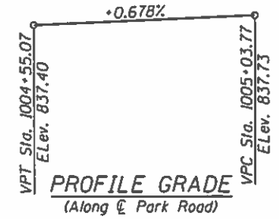
Item	Unit	Quantity
Removal of Existing Structures	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 12' x 6'	Foot	46
Granular Culvert Backfill	Cu. Yd.	64
Membrane Waterproofing System for Buried Structures	Sq. Yd.	89
Stone Riprap, Class A4	Sq. Yd.	34
Filter Fabric	Sq. Yd.	34
Rock Fill - Foundation	Cu. Yd.	49
Name Plates	Each	1

WATERWAY INFORMATION

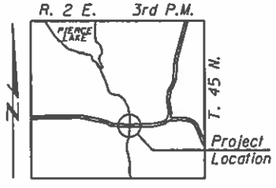
Drainage Area = 0.83 mi² — Exist. Low Grade Elev. 836.7 @ Sta. 1004+85; Prop. Low Grade Elev. 836.8 @ Sta. 1004+85

Flood	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	10	381	78	72	834.4	1.0	0.0	835.4	834.4
	25	524	78	72	834.9	1.8	0.5	836.7	835.4
	50	640	78	72	835.3	1.8	1.0	837.1	836.3
Base	100	762	78	72	835.6	1.7	1.7	837.3	837.3

10 year velocity through exist. 84" culvert = 5.9 fps
10 year velocity through prop. box culvert = 5.4 fps



PROFILE GRADE
(Along ℄ Park Road)



LOCATION SKETCH

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims.

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)

TRIBUTARY OF WILLOW CREEK
BUILT 20 By
STATE OF ILLINOIS
SECTION ROCK CUT 2018
STATION 1004+78.73
STR. NO. 101-9975
LOADING HL-93

NAME PLATE

See Std. 515001

MARK A. HENDERSON 513 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS

Mark A Henderson 9/31/2018

Exp. Date: 11/30/2018

GENERAL PLAN & ELEVATION
PARK ACCESS ROAD OVER TRIBUTARY OF WILLOW CREEK
SEC PARK ROAD 2017-01
WINNEBAGO COUNTY
STA. 1004+78.73
STRUCTURE NO. 101-9975

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = ___ | DESIGNED - ___ | REVISED - ___
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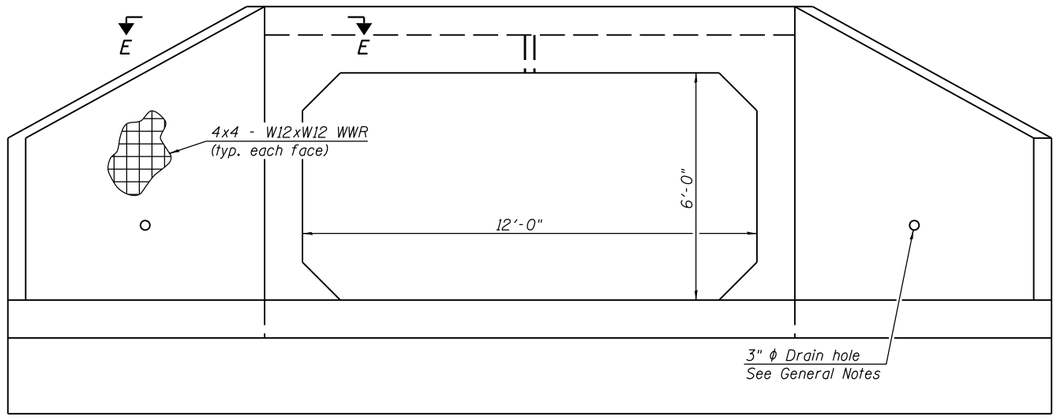
PLOT SCALE = ___ | DRAWN - ___ | REVISED - ___
PLOT DATE = ___ | CHECKED - ___ | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

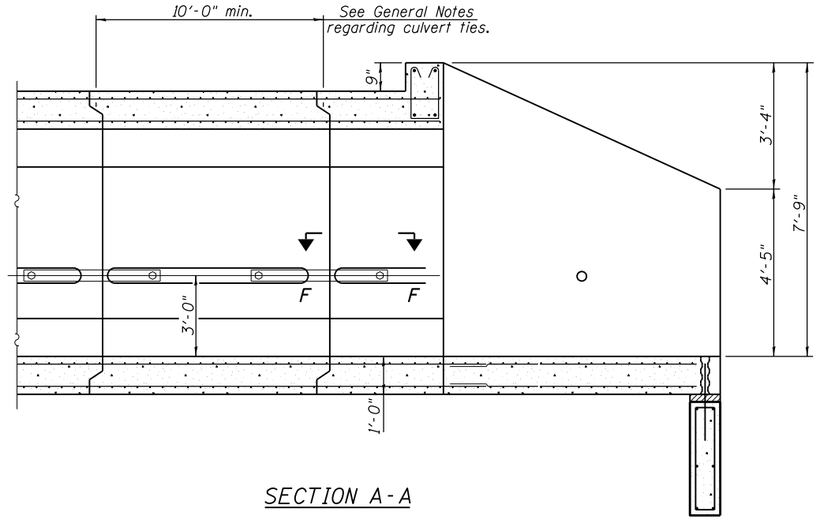
GENERAL PLAN & ELEVATION

SHEET NO. 1 OF 5 SHEETS

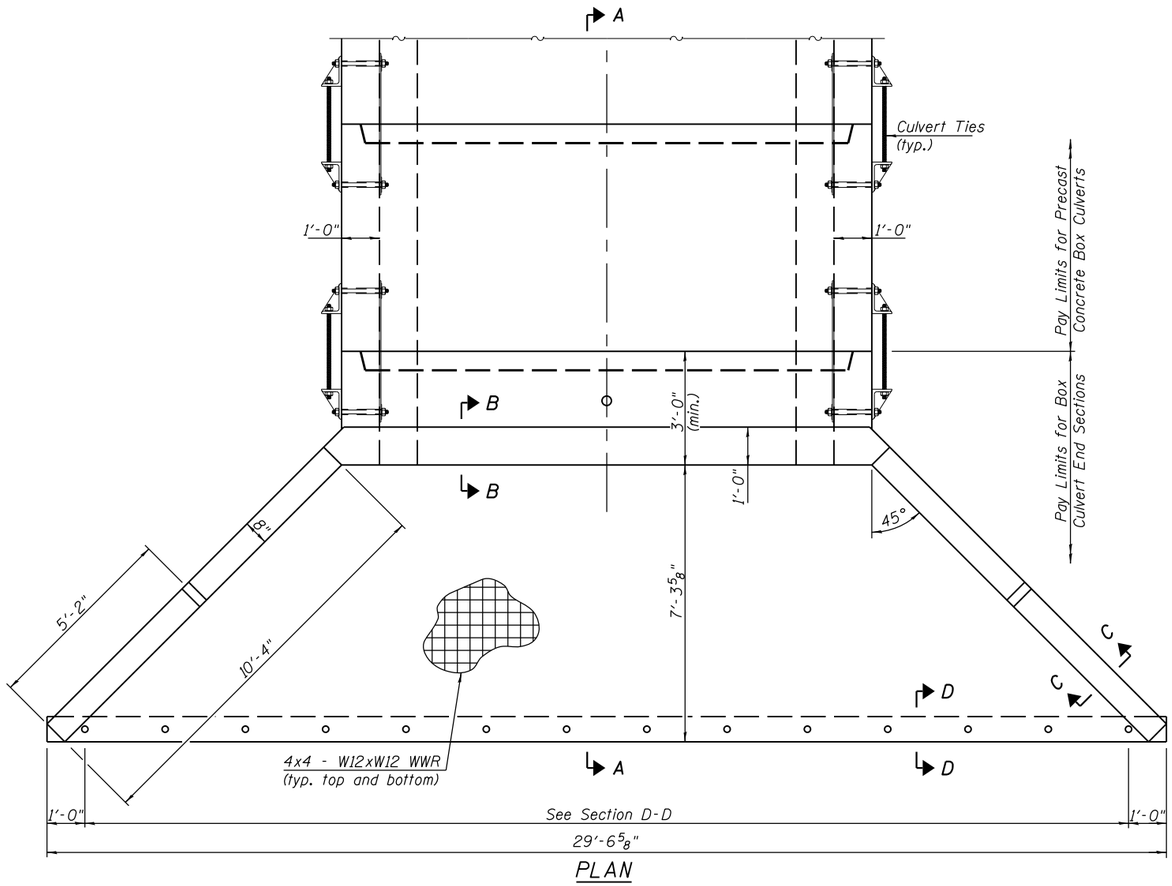
I.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	230
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



END VIEW



SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than $\frac{1}{2}$" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

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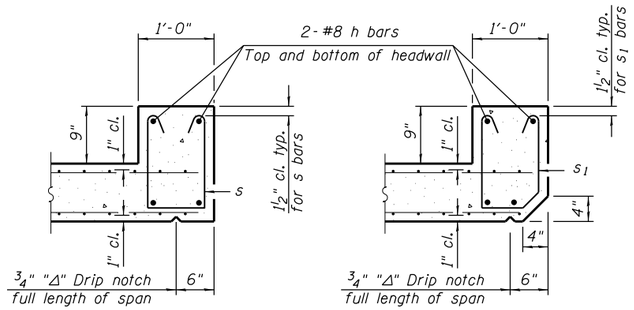
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS

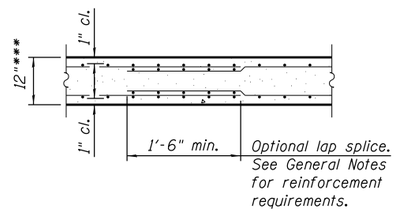
SHEET NO. 2 OF 5 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	231
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

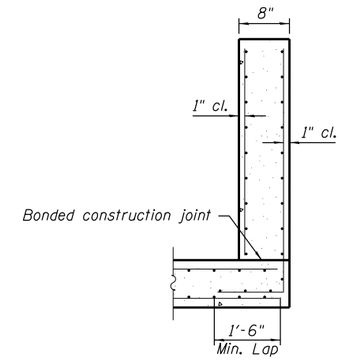


SECTION B-B
(Top slab at downstream end)

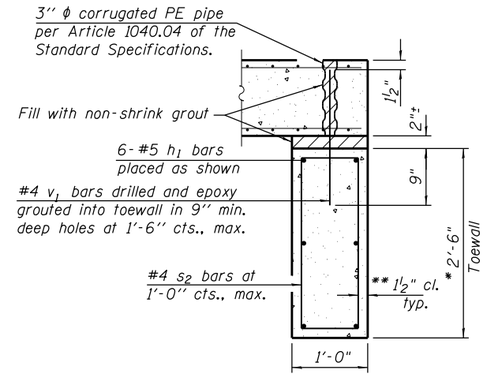
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

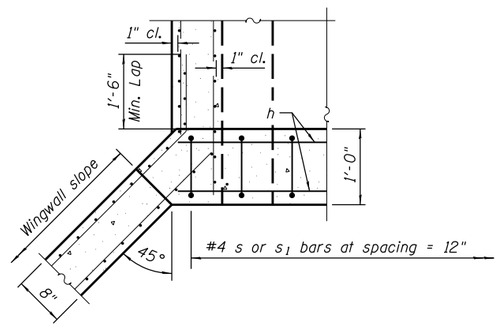


SECTION C-C

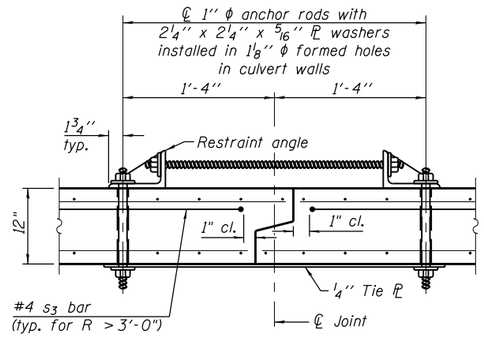


SECTION D-D

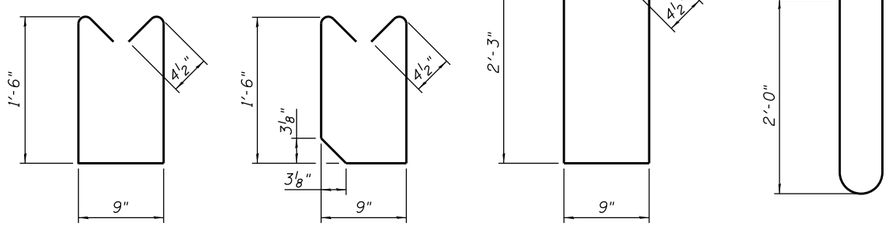
*** This dimension shall be increased by 2" for CIP construction.



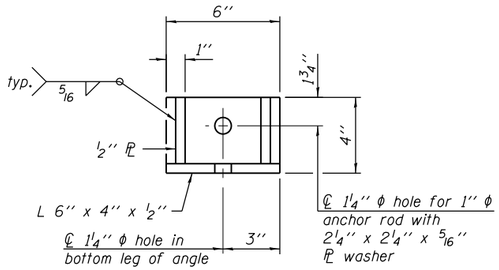
SECTION E-E



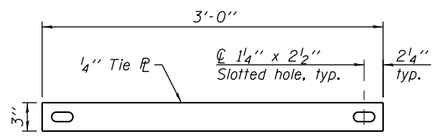
SECTION F-F
(Showing culvert tie details)



BAR s BAR s1 BAR s2 BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

1" ϕ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

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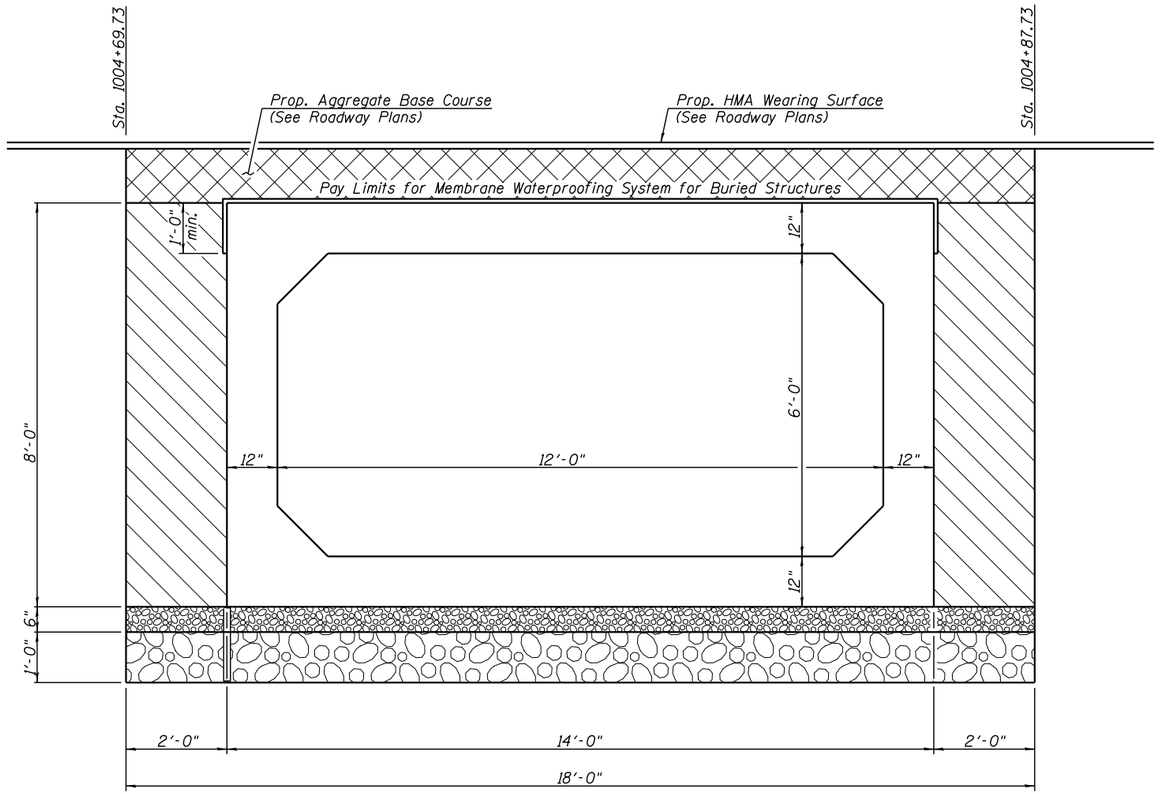
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS
SHEET NO. 3 OF 5 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	232
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



SECTION THRU BARREL

GENERAL NOTES

Work shown in the detail shall be performed in accordance with applicable portions of Section 207 and Section 540 of the Standard Specifications.

Granular Culvert Backfill shall extend 2 ft. beyond the headwalls.

The area to be excavated for the proposed box culvert shall not be measured for payment. The cost of the excavation shall be included in the cost of Precast Concrete Box Culverts.

LEGEND

- Pay limits of Granular Culvert Backfill
- Porous Granular Material - CA-7 (6") Included in Precast Concrete Box Culverts, 12' x 6'
- Rockfill Foundation (12")
- Aggregate Base Course (See Roadway Plans)

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PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF GRANULAR CULVERT BACKFILL PAY LIMITS

SHEET NO. 4 OF 5 SHEETS

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	233
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/14/17

ROUTE SPR DESCRIPTION C92-007-92 Culvert in Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station 157+99

Latitude 42° 20' 37.04"
Longitude -88° 58' 33.03"

Northing 2,069,994.3423
Easting 2,618,509.0836

BORING NO. B-1
Station 158+04
Offset 9.50ft Rt CL
Ground Surface Elev. 100.30 ft

Surface Water Elev. 92.00 ft
Stream Bed Elev. 91.50 ft

Groundwater Elev.:
First Encounter 90.3 ft
Upon Completion 85.8 ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.5" Asphalt MEDIUM gray SILTY CLAY LOAM			0.8 P	15.0
	98.30			
MEDIUM gray SILTY LOAM		1 3 4	0.8 B	16.0
	96.80			
MEDIUM/STIFF gray SILTY CLAY LOAM	-5	2 3 4	1.0 B	18.0
	94.30			
MEDIUM dark gray SILTY LOAM with SAND lens and 11% ORGANICS		1 1 2	0.6 B	45.0
	91.30			
MEDIUM gray dirty SAND with medium GRAVEL	-10 ▼	1 11 14		
	88.80			
VERY SOFT tan SILT/very fine SAND		4 3 7	0.0 P	21.0
	86.80			
HARD tan CLAY LOAM	-15 ▽	32 7 11	4.3 B	15.0
	83.80			
MEDIUM gray medium SAND		14 13 13		
	81.30			
	-20	5		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SOFT gray SILTY LOAM with SAND lens *(continued)*	79.30	7 7	0.5 B	23.0
VERY STIFF gray CLAY LOAM	76.80	1 4 8	3.3 B	20.0
MEDIUM gray CLAY LOAM with SAND lens	-25	3 2 4	0.8 P	24.0
End of Boring	74.30			
	-30			
	-35			
	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/14/17

ROUTE SPR DESCRIPTION C92-007-92 Culvert in Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station 157+99

Latitude 42° 20' 37.40"
Longitude -88° 58' 34.95"

Northing 2,070,029.4922
Easting 2,618,364.2009

BORING NO. B-2
Station 157+74
Offset 9.00ft Lt CL
Ground Surface Elev. 100.10 ft

Surface Water Elev. 92.00 ft
Stream Bed Elev. 91.50 ft

Groundwater Elev.:
First Encounter 90.6 ft
Upon Completion 98.6 ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4" Asphalt with CA06 8"				
	98.10			
STIFF gray SILTY LOAM		1 2 4	1.8 P	14.0
	96.60			
MEDIUM gray SILTY LOAM	-5	1 2 2	0.8 P	19.0
	94.10			
LOOSE dark gray dirty SAND with 8% ORGANICS		0 1 5		53.0
	91.10			
LOOSE/MEDIUM tan fine SAND with medium GRAVEL	-10 ▼	2 4 6		
	89.10			
MEDIUM tan SAND		10 9 10		
	86.10			
STIFF gray CLAY LOAM	-15	6 8 7	1.4 B	19.0
	84.10			
No Recovery (CLAY LOAM?)		4 6 9		
	81.60			
	-20	3		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DENSE gray CLAY LOAM with SAND & GRAVEL lens with LIMESTONE fragments *(continued)*	78.60	3 9	4.1 P	15.0
VERY DENSE tan weathered LIMESTONE	77.60	100/5"		
End of Boring				
	-25			
	-30			
	-35			
	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

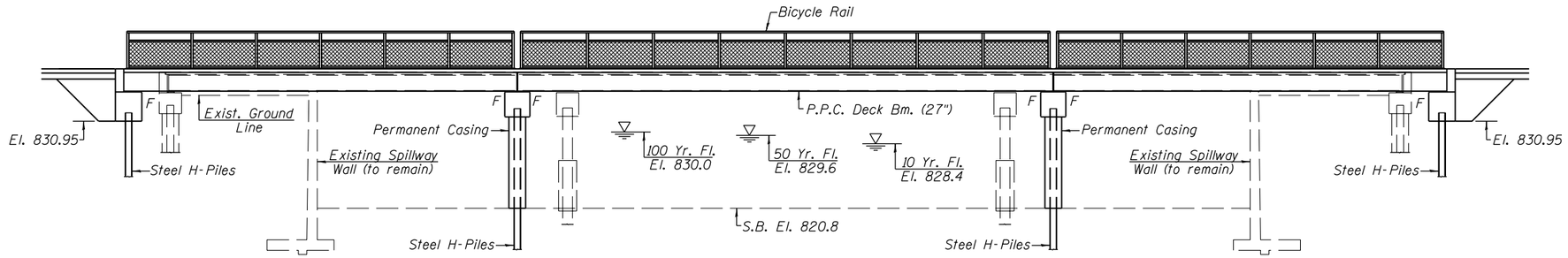
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Benchmark: IDNR Water Resources Tablet on S.W. Wingwall, 12.6' Lt. Sta. 1058+85.6 El. 836.63

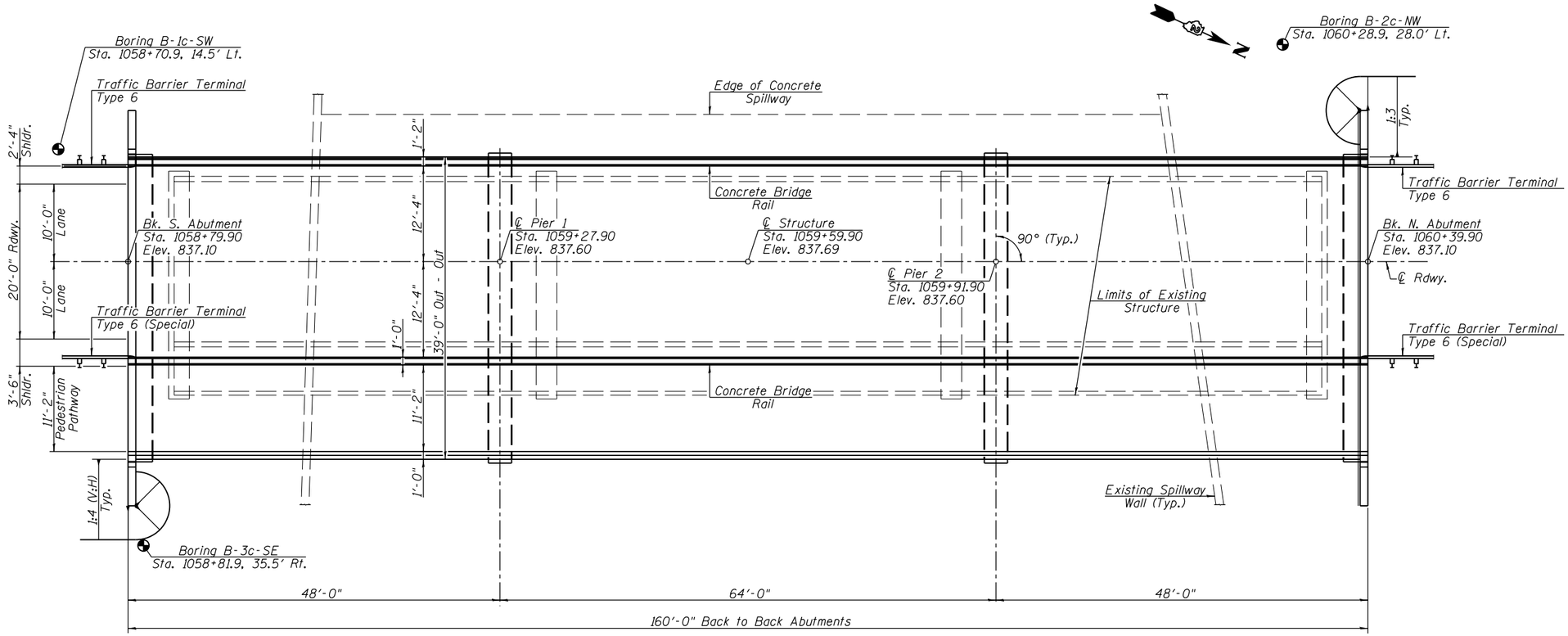
Existing Structure: SN 101-9960 built in 1963 as a three span bridge with timber deck on steel stringers on open concrete abutments and pile bent piers. 149'-6" back to back abutments. ±22'-0" out.-out. deck, ±21'-0" face-face curb. Project will be built under road closure.

Salvage: None



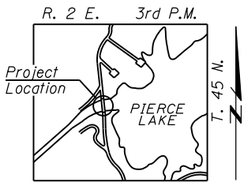
ELEVATION
(Looking West)

INDEX OF SHEETS



PLAN

PROFILE GRADE



LOCATION SKETCH

GENERAL PLAN & ELEVATION
PARK ACCESS ROAD OVER
ROCK CUT SPILLWAY
WINNEBAGO COUNTY
STA. 1059+59.90
STRUCTURE NO. 101-9974

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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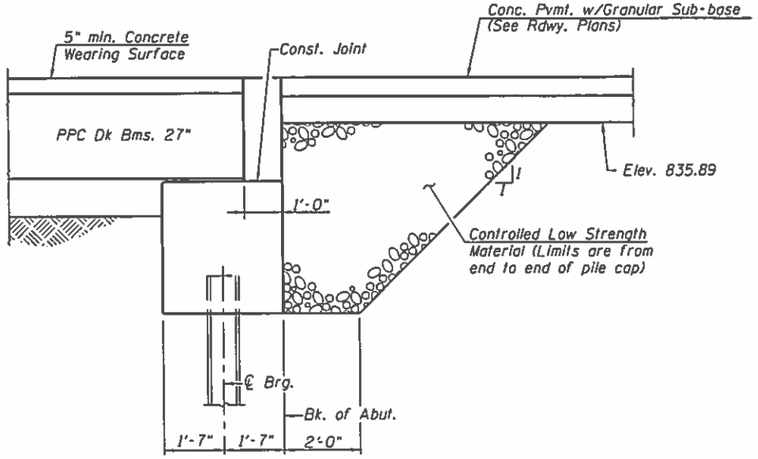
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 101-9974
SHEET NO. 1 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	235
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



SECTION THRU ABUTMENT

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications.
7th Edition with 2015 & 2016 Interim Specifications.

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi ($\frac{1}{2}$" ϕ low lax strands)
fpbt = 201,960 psi ($\frac{1}{2}$" ϕ low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.057 g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.128 g
Soil Site Class = D

WILLOW CREEK
BUILT 20 BY
STATE OF ILLINOIS
SECTION ROCK CUT 2018
STATION 1059+59.90
STR. NO. 101-9974
LOADING HL-93

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		128	128
Concrete Structures	Cu. Yd.		71.6	71.6
Concrete Bridge Railing	Foot	316		316
Bridge Deck Grooving	Sq. Yd.	398		398
Concrete Encasement	Cu. Yd.		17.4	17.4
Protective Coat	Sq. Yd.	877		877
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	6156		6156
Concrete Wearing Surface, 5"	Sq. Yd.	685		685
Reinforcement Bars, Epoxy Coated	Pound	10320	8120	18440
Bicycle Railing	Foot	157		157
Furnishing Steel Piles HP 12 x 53	Foot		440	440
Furnishing Steel Piles HP 12 x 63	Foot		582	582
Driving Piles	Foot		1022	1022
Test Pile Steel HP 12 x 53	Each		2	2
Test Pile Steel HP 12 x 63	Each		2	2
Name Plates	Each		1	1
Concrete Removal	Cu. Yd.		2.8	2.8
Permanent Casing	Foot		150	150
Controlled Low-Strength Material	Cu. Yd.		66.0	66.0
Painting Steel Railing	Foot	157		157

WATERWAY INFORMATION

Drainage Area = 13.1 sq. mi.

Existing Overtopping Elev. 832.8 ℄ Sta. 1061+85
Proposed Overtopping Elev. 832.8 ℄ Sta. 1061+85

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1249	831	834	828.4	0.0	0.0	828.4	828.4
Design	20	1750	906	909	829.1	0.0	0.0	829.1	829.1
	50	2162	962	965	829.6	0.0	0.0	829.6	829.6
Base	100	2571	1013	1016	830.0	0.0	0.0	830.0	830.0
	200	2969	1060	1063	830.5	0.0	0.0	830.5	830.5

10 Year Velocity through existing bridge = 1.5 ft/s
10 Year Velocity through proposed bridge = 1.5 ft/s

DESIGN SCOUR ELEVATION TABLE

	Design Scour Elevations (ft.) S. Abut.	Pier 1	Pier 2	N. Abut.	Item 113
0100	830.96	813.7	814.2	830.96	5
0200	830.96	813.3	813.8	830.96	
Design	830.96	814.5	815.0	830.96	
Check	830.96	813.3	813.8	830.96	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.

2. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

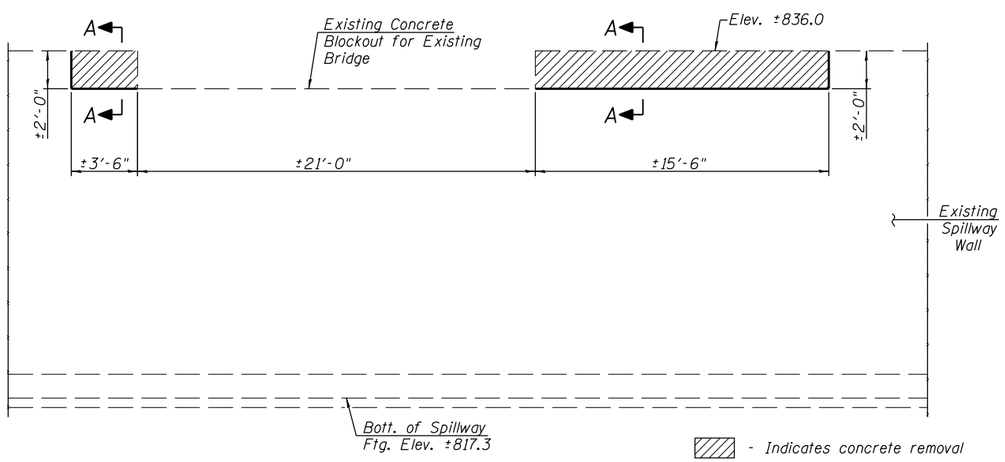
3. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

MARK A. HENDERSON
593
LICENSED
STRUCTURAL
ENGINEER
STATE OF ILLINOIS

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. LRFD Bridge Design Specifications".

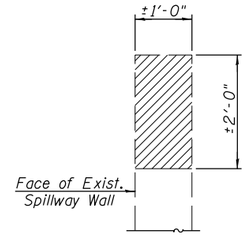
Mark A Henderson 8/31/2018
Expiration 11/30/2018

V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA STRUCTURE NO. 101-9974	F.A. RTE.	SECTION: ROCK CUT 2018
		CHECKED -	REVISED -				COUNTY: WINNEBAGO
	PLOT SCALE =	DRAWN -	REVISED -				TOTAL SHEETS: 406
	PLOT DATE =	CHECKED -	REVISED -		SHEET NO. 2 OF 22 SHEETS		SHEET NO.: 236
							CONTRACT NO. 46903
							ILLINOIS FED. AID PROJECT

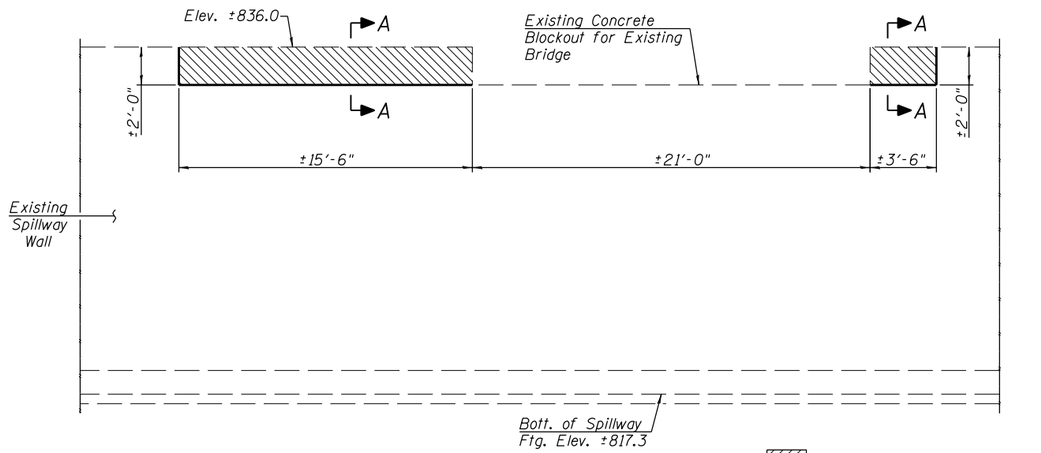


SPILLWAY WALL CONCRETE REMOVAL

(North Spillway Wall Shown - Looking North)



SECTION A-A

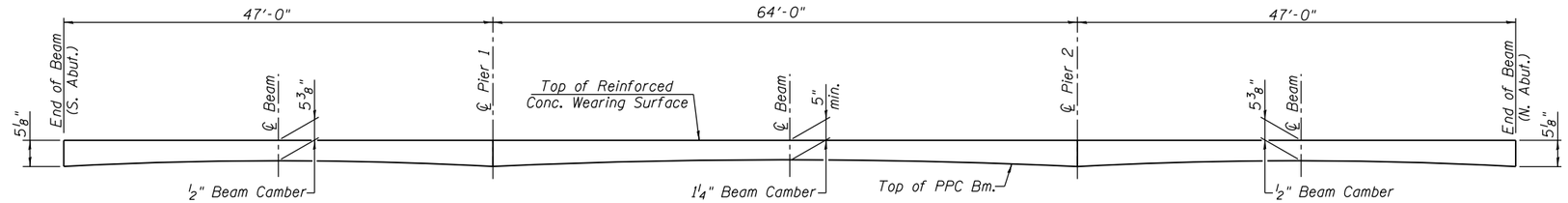


SPILLWAY WALL CONCRETE REMOVAL

(South Spillway Wall Shown - Looking South)

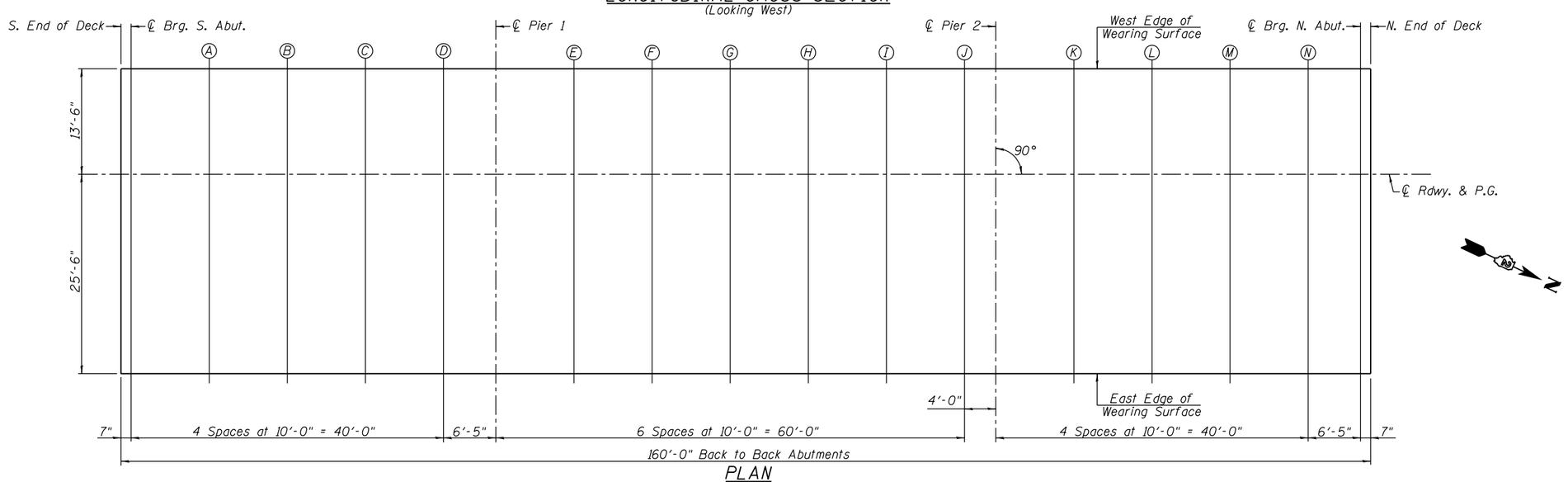
BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.8



CONCRETE WEARING SURFACE LONGITUDINAL CROSS SECTION

(Looking West)



PLAN

WEST EDGE OF WEARING SURFACE

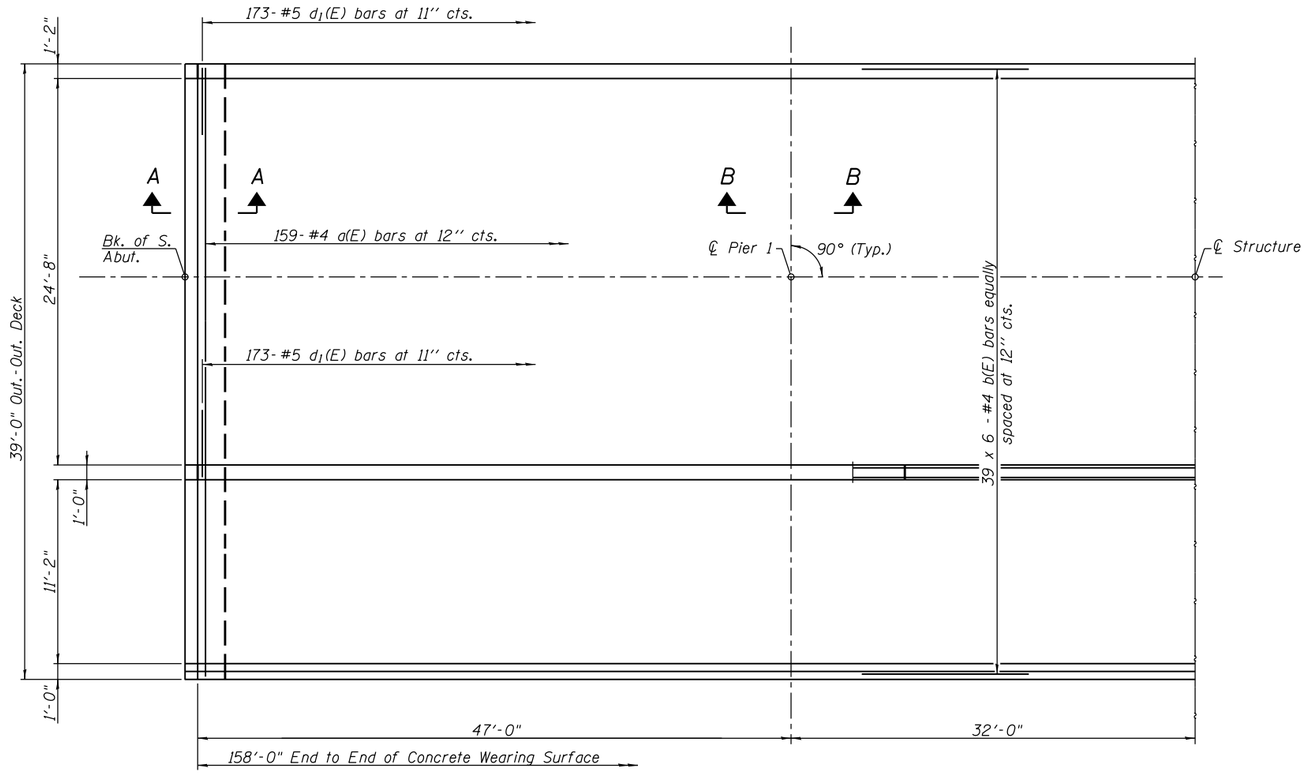
Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	1058+80.90	-13.50	836.91
℄ Brg. S. Abut.	1058+81.48	-13.50	836.92
A	1058+91.48	-13.50	837.06
B	1059+01.48	-13.50	837.17
C	1059+11.48	-13.50	837.27
D	1059+21.48	-13.50	837.35
℄ Pier 1	1059+27.90	-13.50	837.40
E	1059+37.90	-13.50	837.45
F	1059+47.90	-13.50	837.48
G	1059+57.90	-13.50	837.49
H	1059+67.90	-13.50	837.48
I	1059+77.90	-13.50	837.46
J	1059+87.90	-13.50	837.42
℄ Pier 2	1059+91.90	-13.50	837.40
K	1060+01.90	-13.50	837.33
L	1060+11.90	-13.50	837.24
M	1060+21.90	-13.50	837.13
N	1060+31.90	-13.50	837.01
℄ Brg. N. Abut.	1060+38.32	-13.50	836.92
N. End of Deck	1060+38.90	-13.50	836.91

℄ ROADWAY & P.G.

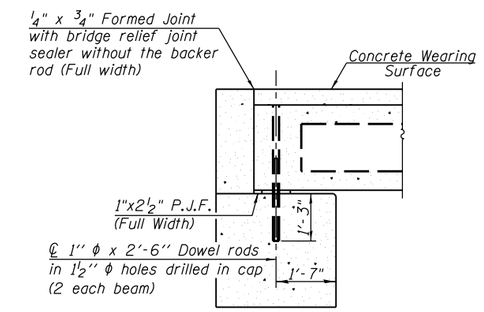
Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	1058+80.90	0.00	837.11
℄ Brg. S. Abut.	1058+81.48	0.00	837.12
A	1058+91.48	0.00	837.26
B	1059+01.48	0.00	837.38
C	1059+11.48	0.00	837.48
D	1059+21.48	0.00	837.56
℄ Pier 1	1059+27.90	0.00	837.60
E	1059+37.90	0.00	837.65
F	1059+47.90	0.00	837.68
G	1059+57.90	0.00	837.69
H	1059+67.90	0.00	837.69
I	1059+77.90	0.00	837.66
J	1059+87.90	0.00	837.62
℄ Pier 2	1059+91.90	0.00	837.60
K	1060+01.90	0.00	837.53
L	1060+11.90	0.00	837.44
M	1060+21.90	0.00	837.34
N	1060+31.90	0.00	837.21
℄ Brg. N. Abut.	1060+38.32	0.00	837.12
N. End of Deck	1060+38.90	0.00	837.11

EAST EDGE OF WEARING SURFACE

Location	Station	Offset	Theoretical Grade Elevations
S. End of Deck	1058+80.90	25.50	836.73
℄ Brg. S. Abut.	1058+81.48	25.50	836.74
A	1058+91.48	25.50	836.88
B	1059+01.48	25.50	836.99
C	1059+11.48	25.50	837.09
D	1059+21.48	25.50	837.17
℄ Pier 1	1059+27.90	25.50	837.21
E	1059+37.90	25.50	837.26
F	1059+47.90	25.50	837.30
G	1059+57.90	25.50	837.31
H	1059+67.90	25.50	837.30
I	1059+77.90	25.50	837.28
J	1059+87.90	25.50	837.24
℄ Pier 2	1059+91.90	25.50	837.21
K	1060+01.90	25.50	837.15
L	1060+11.90	25.50	837.06
M	1060+21.90	25.50	836.95
N	1060+31.90	25.50	836.83
℄ Brg. N. Abut.	1060+38.32	25.50	836.74
N. End of Deck	1060+38.90	25.50	836.73



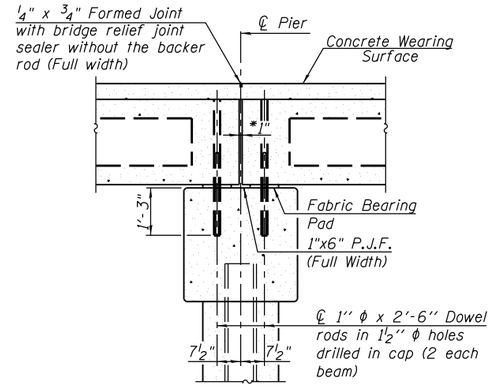
PLAN



SECTION A-A

(Dimensions are at Rt. L's)

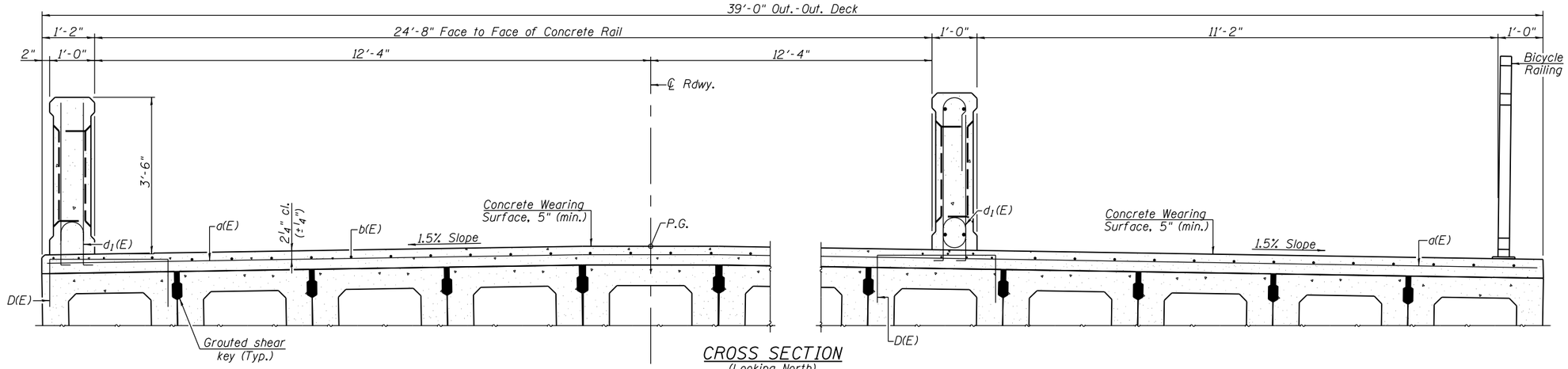
Notes:
See sheet 11 & 13 of 22 for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

*1'' Jt. shall be filled with non-shrink grout. 1'' dimension may vary to accommodate tolerance in beam lengths.



CROSS SECTION

(Looking North)

MIN. BAR LAP

#4 bar = 2'-7"

Notes:
See Sheet 6 & 7 of 22 for Superstructure Details and Bill of Material.
Bars indicated thus 39 x 6-#4 etc. indicates 39 lines of bars with 6 lengths per line.

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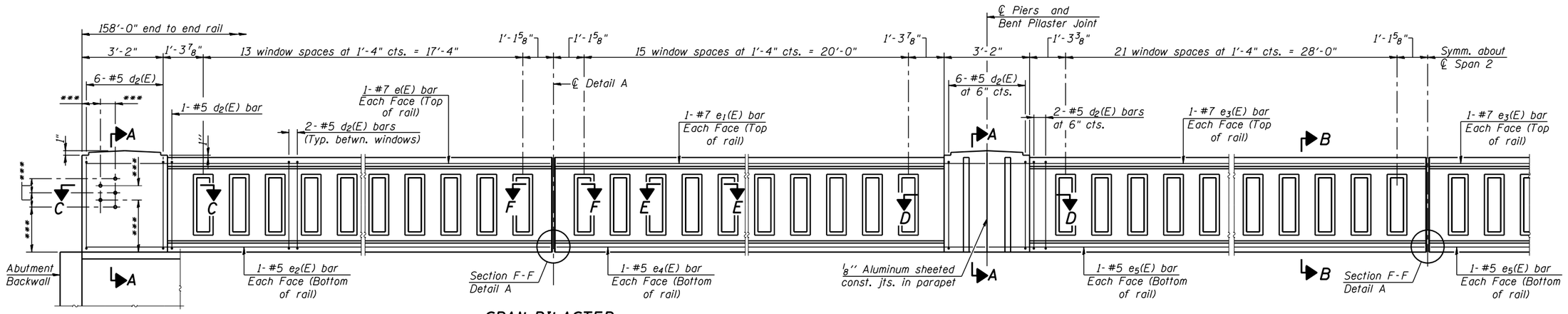
Springfield, IL. Phone: (217)544-8033

USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 101-9974
SHEET NO. 5 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	239
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



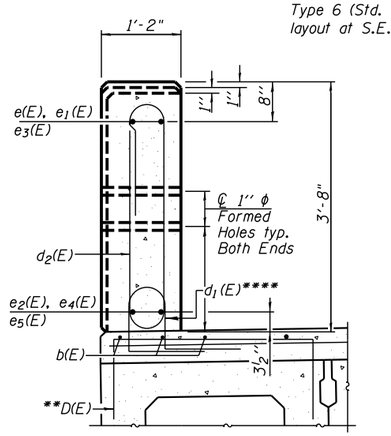
SPAN PILASTER

PIER PILASTER

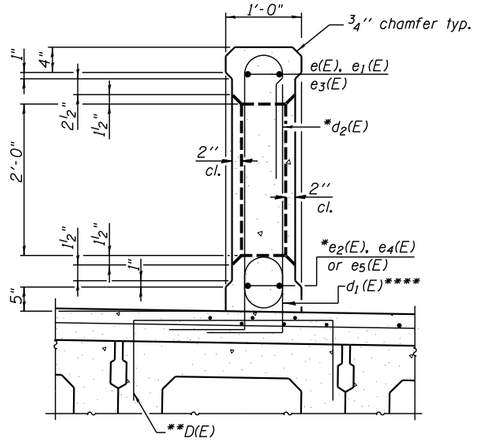
INSIDE ELEVATION OF RAIL

*** See Traffic Barrier Terminal Type 10 (Std. 631046-04) for hole layout at N.E. & N.W. corners

See Traffic Barrier Terminal Type 6 (Std. 631032) for hole layout at S.E. corner



SECTION A-A

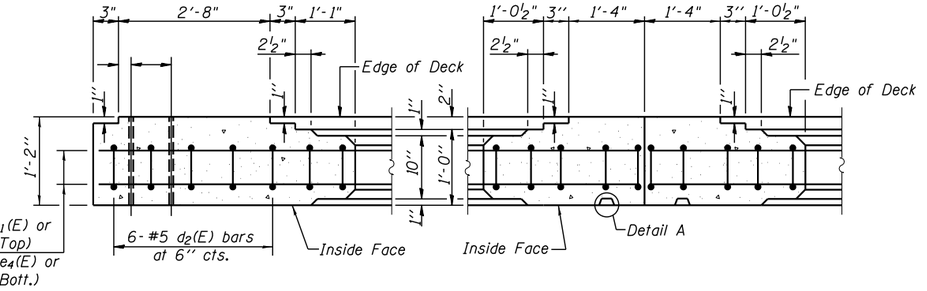


SECTION B-B

*Bars e(E) thru e3(E) and d2(E) are included in the cost of Concrete Bridge Railing.

**Place #4 D(E) bars at 9" cts. in beams directly under each concrete bridge railing. D(E) bar included in cost of beam.

****Cast d1(E) bars in Concrete Wearing Surface.



SECTION C-C

SECTION D-D

MIN. BAR LAP

#5 bars = 3'-1"
#7 bars = 5'-10"

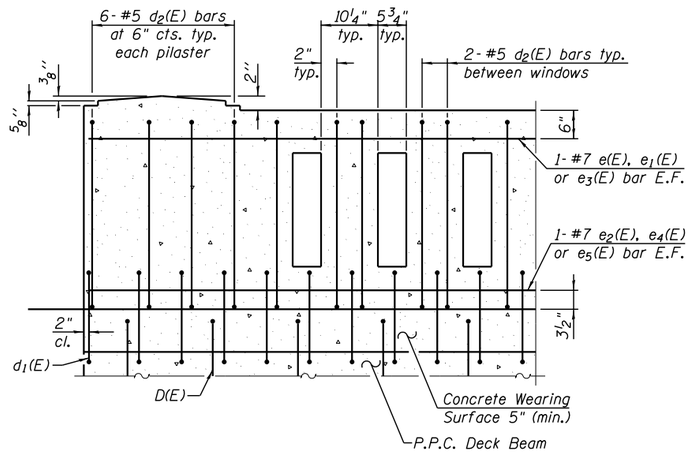
Notes:

All concrete for railing wall shall be Class BS according to Article 1020.04 of the Standard Specifications. Surface of railing shall receive a rubbed finish according to Article 503.15(b) of the Standard Specifications.

All parts of the railing including concrete and reinforcing will be paid for at the contract unit price per foot for Concrete Bridge Railing.

Holes and recesses must be formed or cored. Drilling is not permitted.

Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.



TYPICAL REINFORCEMENT PLACEMENT

(Inside Face)

CONCRETE BRIDGE RAILING BAR LIST

Bar	No.	Size	Length	Shape
$d_2(E)$	484	#5	8'-8"	⬭
$e(E)$	8	#7	22'-7"	—
$e_1(E)$	8	#7	23'-8"	—
$e_2(E)$	8	#5	22'-7"	—
$e_3(E)$	8	#7	31'-8"	—
$e_4(E)$	8	#5	23'-8"	—
$e_5(E)$	8	#5	31'-8"	—

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 101-9974
SHEET NO. 6 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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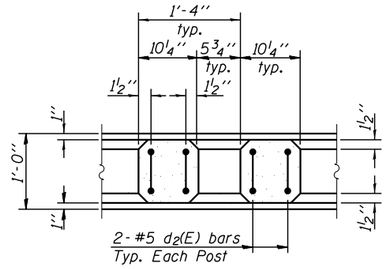
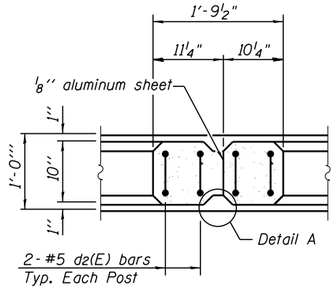
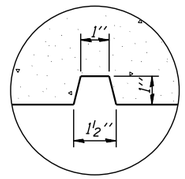
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		



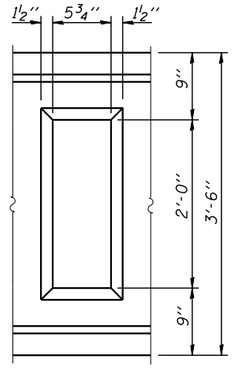
SECTION E-E



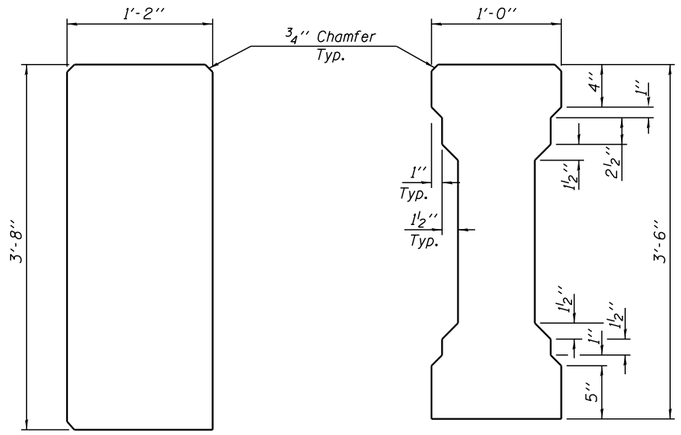
SECTION F-F



DETAIL A



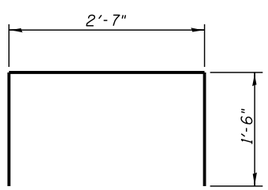
WINDOW DETAIL



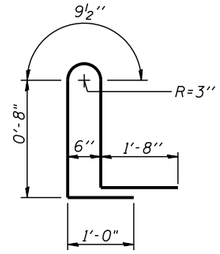
PIER PILASTER JOINT

SPAN PILASTER JOINT

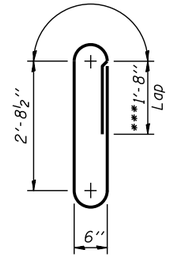
ALUMINUM JOINT DETAILS



BAR D(E)



BAR d_1(E)



BAR d_2(E)

*** Place lap on back side of railing.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	159	#4	38'-8"	———
b(E)	234	#4	28'-7"	———
d_1(E)	346	#5	4'-10"	L
Reinforcement Bars, Epoxy Coated			Pound	10320
Concrete Wearing Surface, 5"			Sq. Yd.	685
Concrete Bridge Railing			Foot	316

Bars indicated thus 2 x 6-#5 etc. indicates 2 lines of bars with 6 lengths per line.

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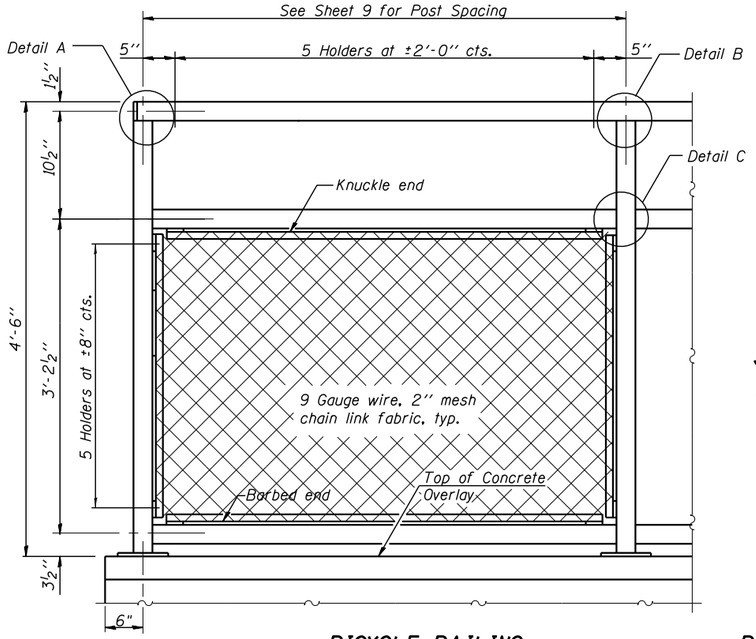
Springfield, IL. Phone: (217)544-8033

USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

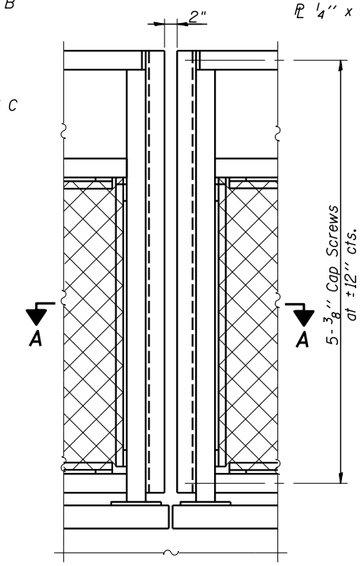
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 101-9974
SHEET NO. 7 OF 22 SHEETS

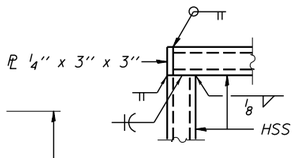
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	241
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



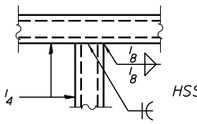
BICYCLE RAILING



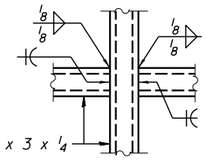
BICYCLE RAILING AT PIERS



DETAIL A



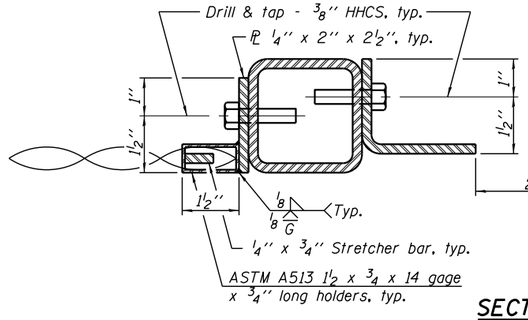
DETAIL B

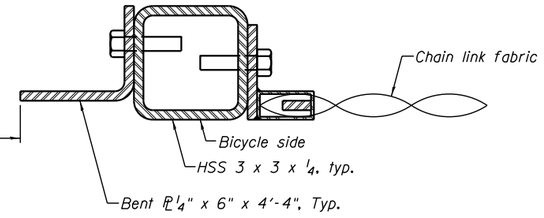


DETAIL C

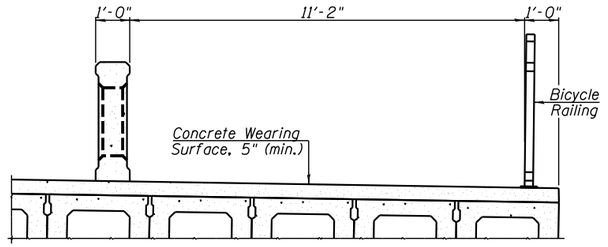
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

See Special Provisions for "Painting Steel Railing."

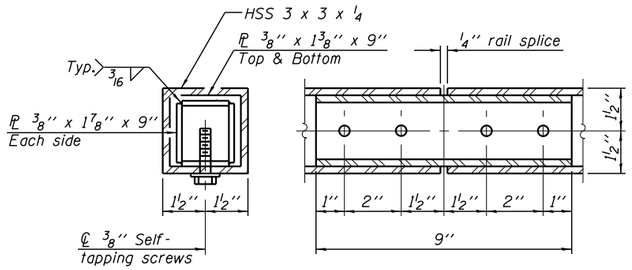




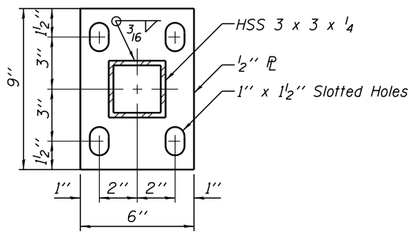
SECTION A-A



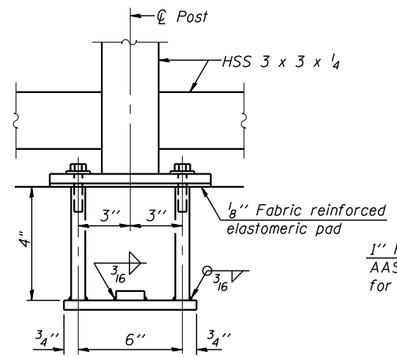
SECTION THRU DECK

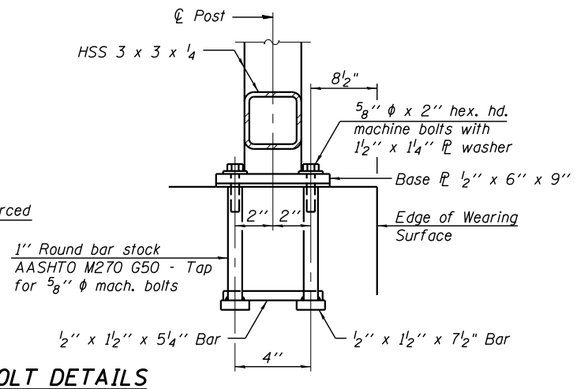


RAIL SPLICE



BASE PL





ANCHOR BOLT DETAILS

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	157
Painting Steel Railing	Foot	157

(10'-0'' Maximum Post Spacing)

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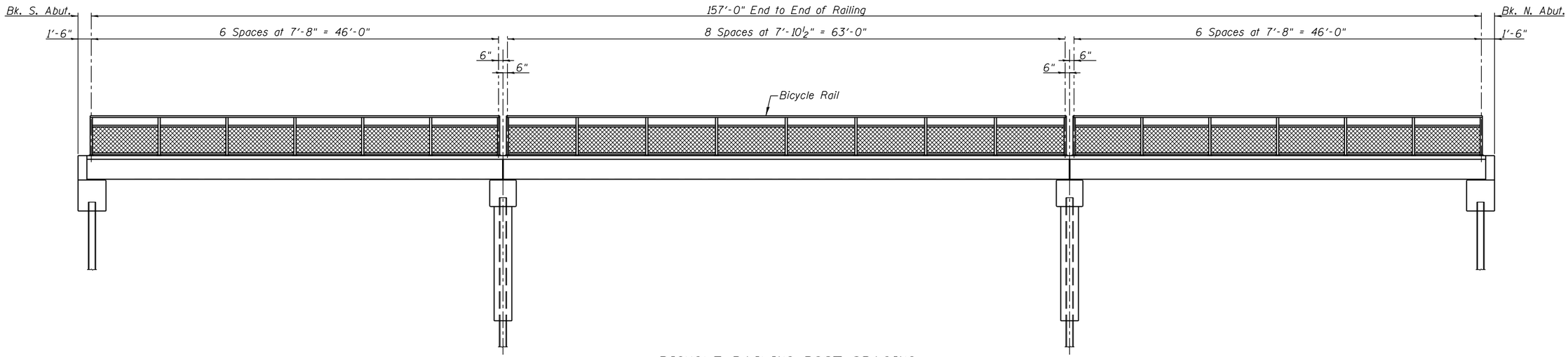
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING
STRUCTURE NO. 101-9974
SHEET NO. 8 OF 22 SHEETS

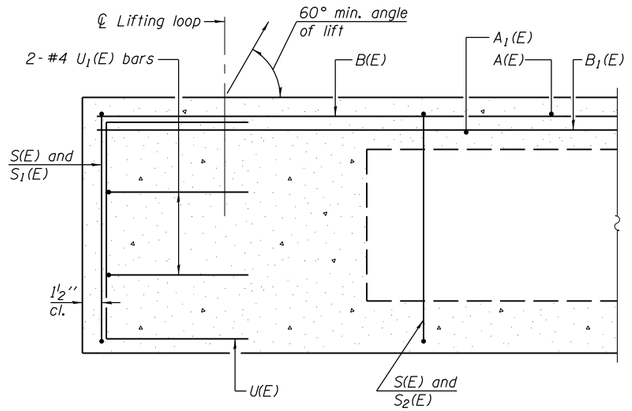
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	242
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



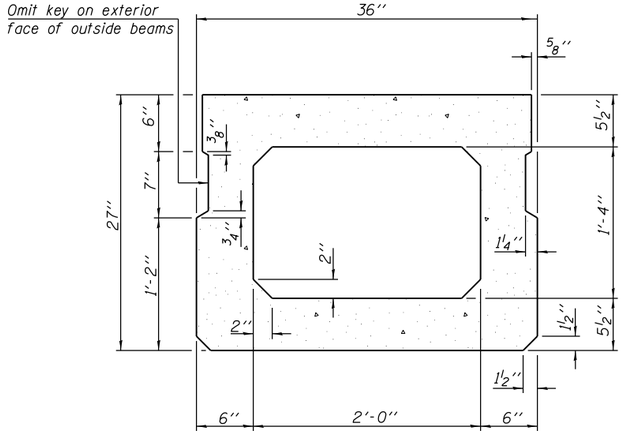
BICYCLE RAILING POST SPACING
(Looking West)

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BICYCLE RAILING DETAILS STRUCTURE NO. 101-9974
		CHECKED - ___	REVISED - ___		
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___		SHEET NO. 9 OF 22 SHEETS
	PLOT DATE = ___	CHECKED - ___	REVISED - ___		

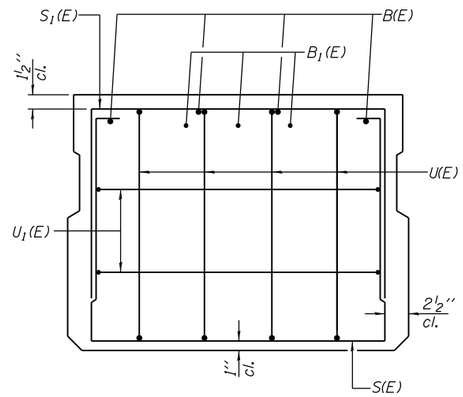
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	243
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



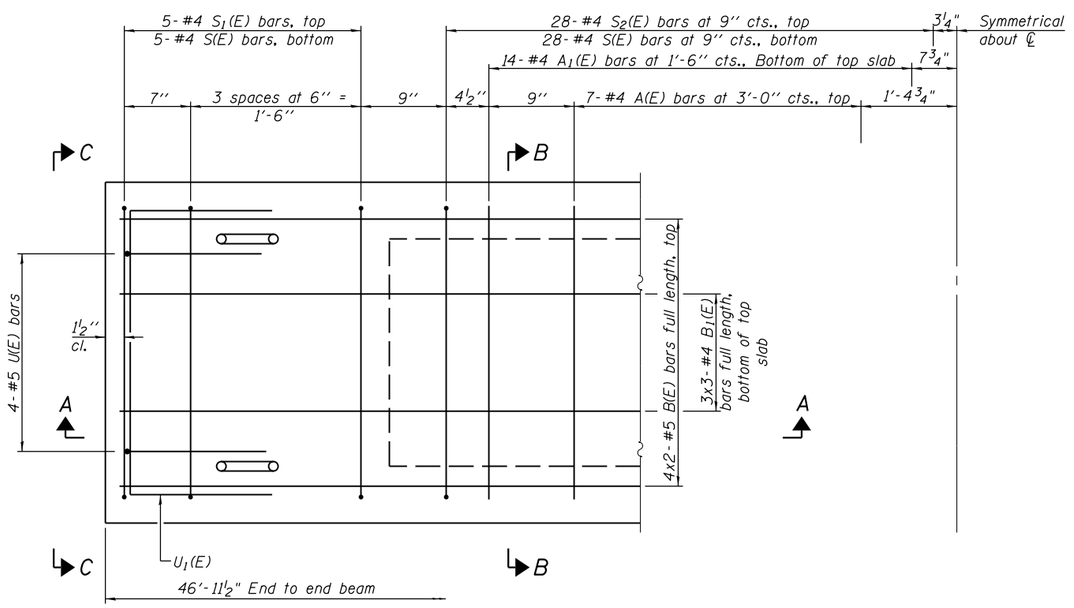
SECTION A-A



SECTION B-B
(Showing dimensions)

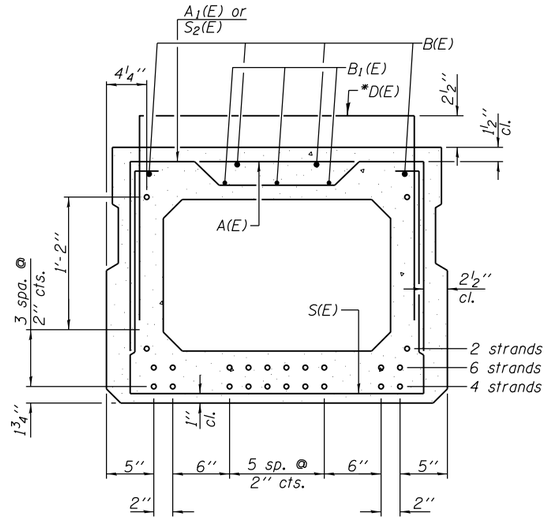


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S_2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

* For dimensions of D(E) bar, see Sheet 7 of 22.
Provide 63-#5 D(E) bars at 9" cts. at beams under Concrete Bridge Rail.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	14	#4	2'-7"	—
A_1(E)	28	#4	2'-10"	~
B(E)	8	#5	24-8"	—
B_1(E)	9	#4	16'-11"	—
* D(E)	63	#5	5'-7"	⌐ ¬
S(E)	66	#4	7'-5"	⌐ ¬
S_1(E)	10	#4	5'-11"	⌐ ¬
S_2(E)	56	#4	6'-2"	⌐ ¬
U(E)	8	#5	4'-6"	⊏
U_1(E)	4	#4	5'-0"	⌐ ¬

Notes: See sheet 11 of 22 for additional details and Bill of Material.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

PD-2736-0 2-17-2017

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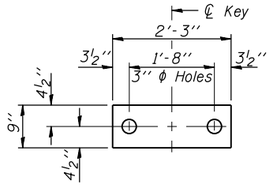
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

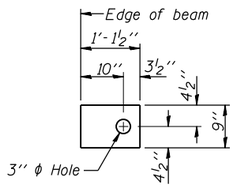
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM (SPANS 1 & 3)
STRUCTURE NO. 101-9974
SHEET NO. 10 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	244
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



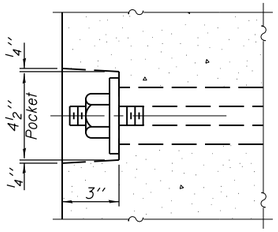
FABRIC BEARING PAD
(Interior)



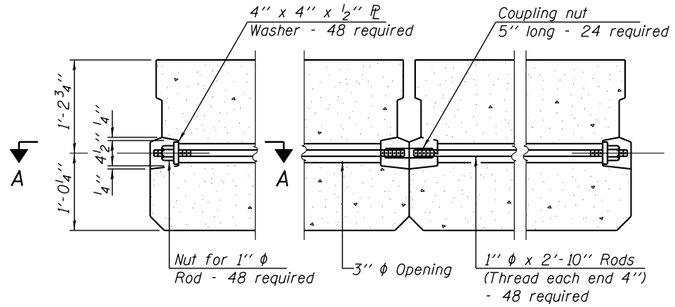
FABRIC BEARING PAD
(Exterior)

FIXED

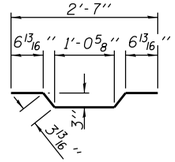
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



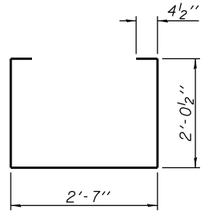
SECTION A-A



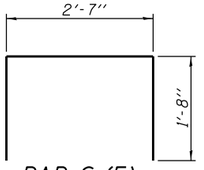
TYPICAL TRANSVERSE TIE ASSEMBLY



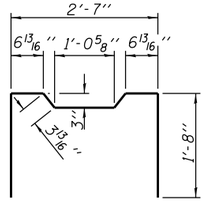
BAR A_1(E)



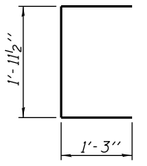
BAR S(E)



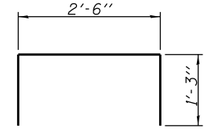
BAR S_1(E)



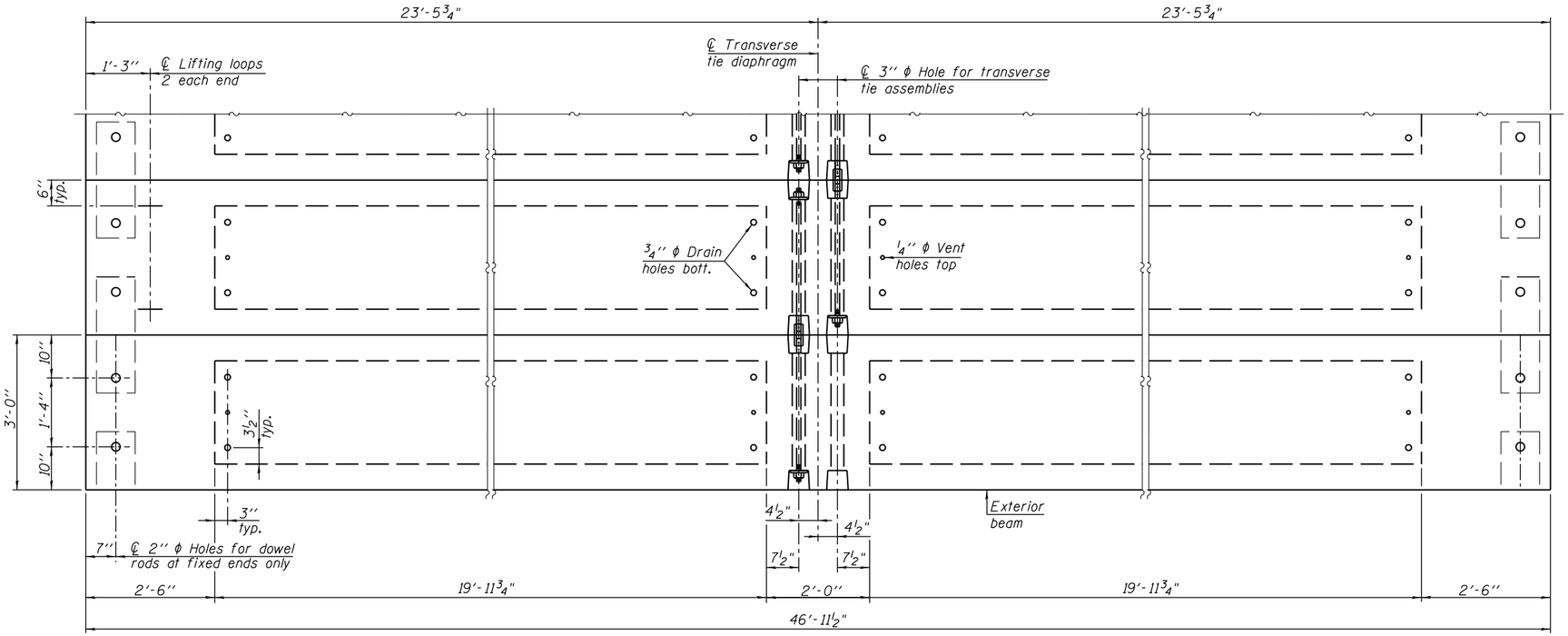
BAR S_2(E)



BAR U(E)



BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

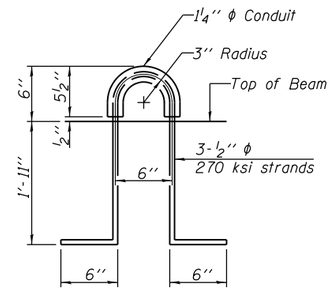
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	3663

PD-2736-0D 2-17-2017

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Springfield, IL. Phone: (217)544-8033

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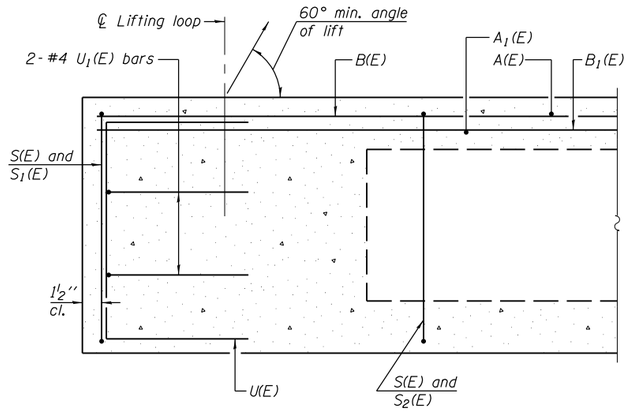
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

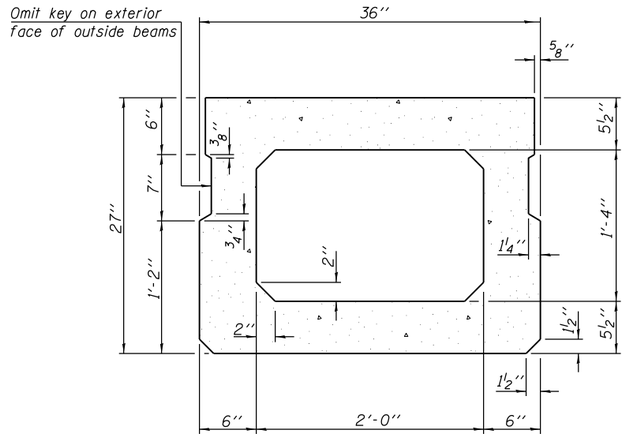
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM DETAILS (SPANS 1 & 3)
STRUCTURE NO. 101-9974
SHEET NO. 11 OF 22 SHEETS

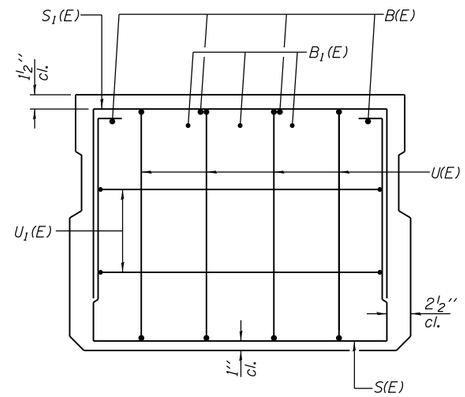
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	245
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



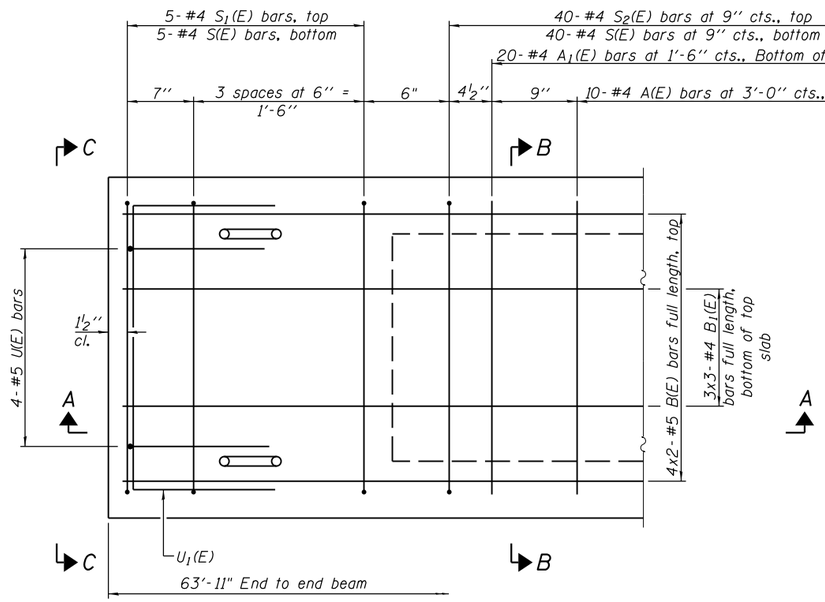
SECTION A-A



SECTION B-B
(Showing dimensions)



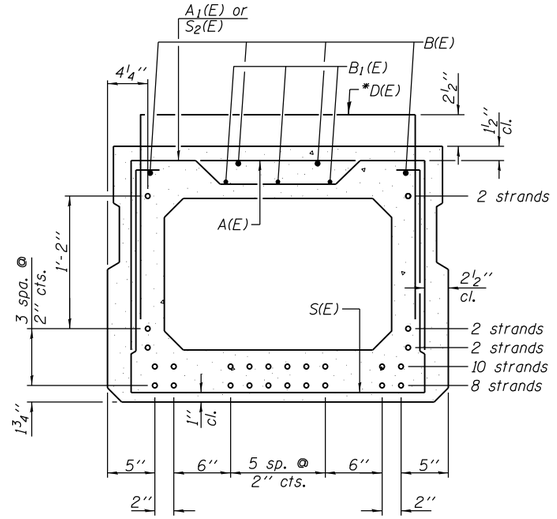
VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S_2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

* Provide 85-#5 D(E) bars at 9" cts. at beams under Concrete Bridge Rail. For dimensions of D(E) bar, see Sheet 7 of 22.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	20	#4	2'-7"	—
A_1(E)	40	#4	2'-10"	~
B(E)	8	#5	33'-2"	—
B_1(E)	9	#4	22'-7"	—
* D(E)	85	#5	5'-7"	⊓
S(E)	90	#4	7'-5"	⊔
S_1(E)	10	#4	5'-11"	⊓
S_2(E)	80	#4	6'-2"	⊓
U(E)	8	#5	4'-6"	⊏
U_1(E)	4	#4	5'-0"	⊓

Note: See sheet 13 of 22 for additional details and Bill of Material.

PD-2736-0 2-17-2017

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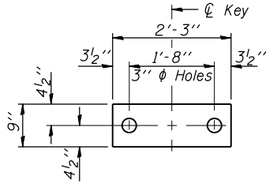
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

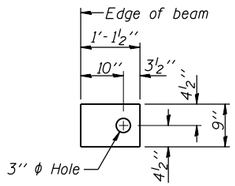
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 36" PPC DECK BEAM (SPAN 2)
STRUCTURE NO. 101-9974
SHEET NO. 12 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	246
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



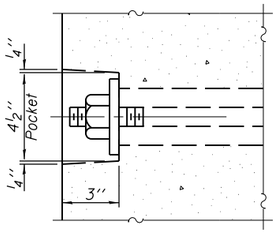
FABRIC BEARING PAD
(Interior)



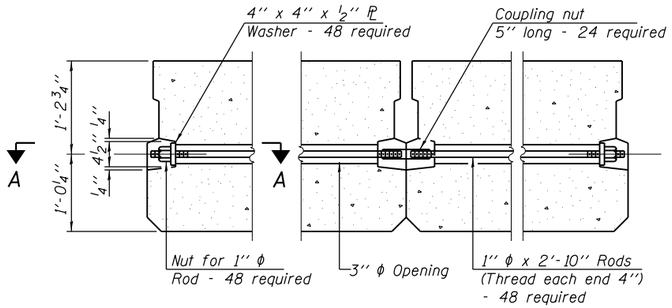
FABRIC BEARING PAD
(Exterior)

FIXED

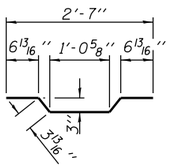
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



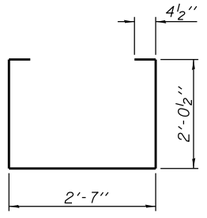
SECTION A-A



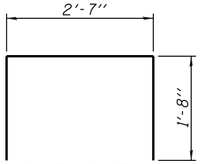
TYPICAL TRANSVERSE TIE ASSEMBLY



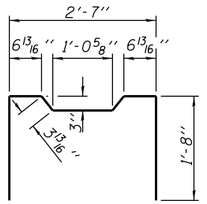
BAR A_1(E)



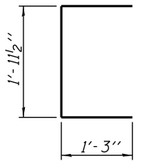
BAR S(E)



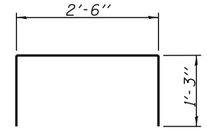
BAR S_1(E)



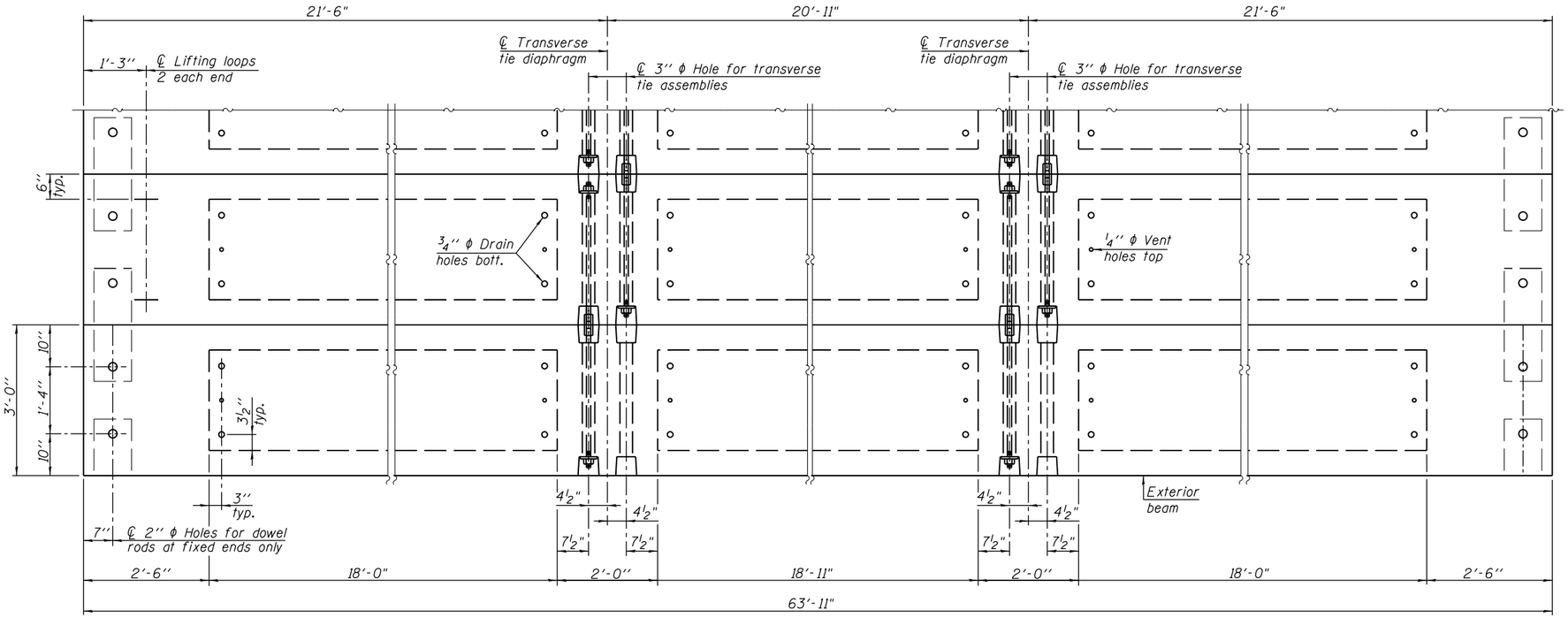
BAR S_2(E)



BAR U(E)

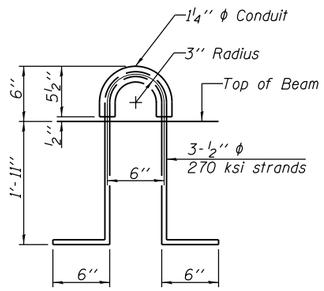


BAR U_1(E)



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2493

PD-2736-0D 2-17-2017

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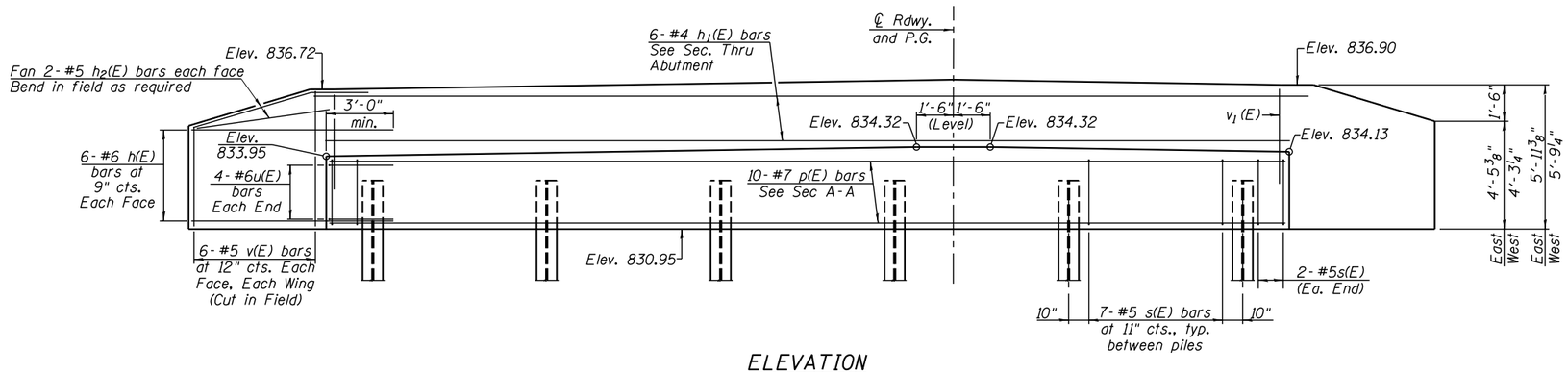
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

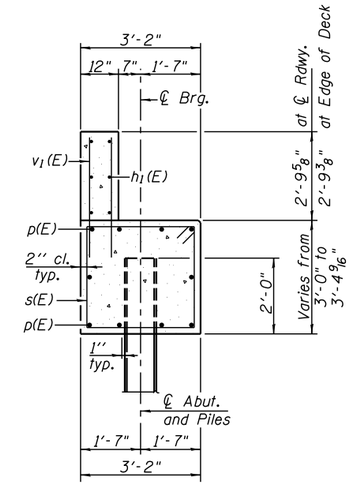
27" x 36" PPC DECK BEAM DETAILS (SPAN 2)
STRUCTURE NO. 101-9974
SHEET NO. 13 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	247
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

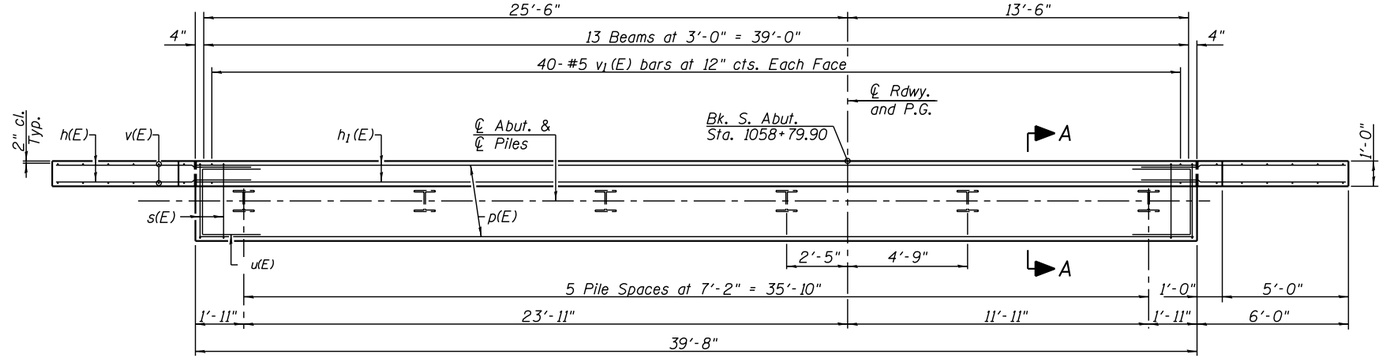
* Cast top of wingwall flush top of backwall



ELEVATION
(Looking South)



SECTION A-A



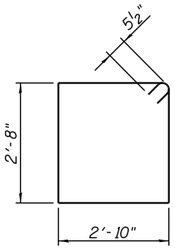
PLAN

BILL OF MATERIAL

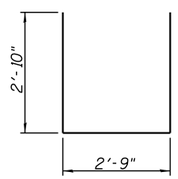
Bar	No.	Size	Length	Shape
h(E)	24	#6	8'-10"	——
h_1(E)	6	#4	40'-8"	——
h_2(E)	8	#5	7'-6"	——
p(E)	10	#7	39'-4"	——
s(E)	39	#5	11'-11"	□
u(E)	8	#6	8'-5"	▭
v(E)	24	#5	5'-8"	——
v_1(E)	80	#5	4'-0"	——
Structure Excavation			Cu. Yd.	64.0
Concrete Structures			Cu. Yd.	21.4
Reinforcement Bars, Epoxy Coated			Pound	2410
Furnishing Steel Piles, HP12x53			Foot	190
Driving Piles			Foot	190
Test Pile, Steel HP12x53			Each	1

PILE DATA

Type: HP12X53
Nominal Required Bearing: 418 kips
Factored Resistance Available: 230 kips
Est. Length: 38'
No. Production Piles: 5
No. Test Piles: 1



BAR s(E)



BAR u(E)

Notes:
For details of piles, see sheet 17 of 22.
Cast backwall after beams have been erected and concrete wearing has been placed.
Space reinforcement in cap to miss beam anchor dowels.
All exposed edges shall have a standard 3/4" chamfer.

AD-2742-0 7-1-10

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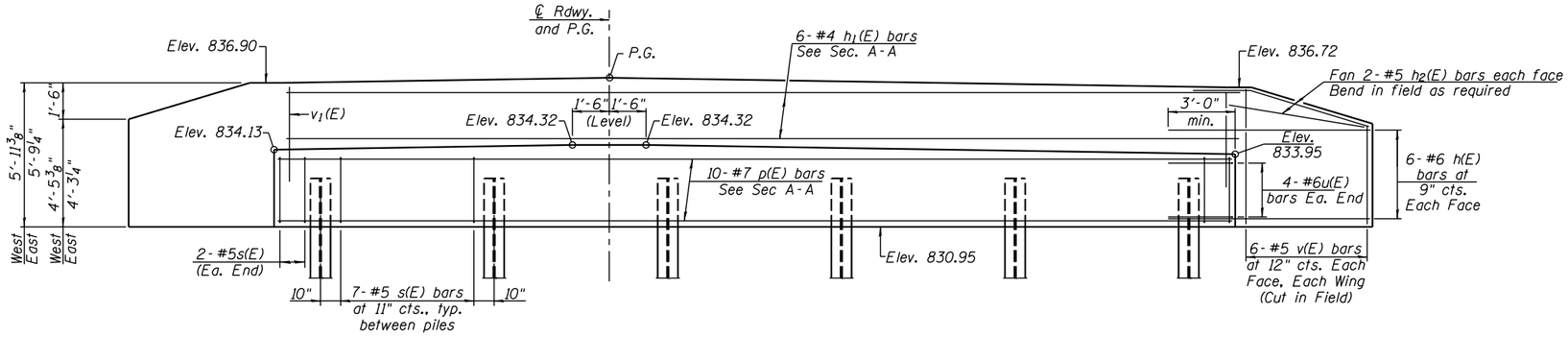
PLOT DATE = ___	CHECKED - ___	REVISED - ___	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

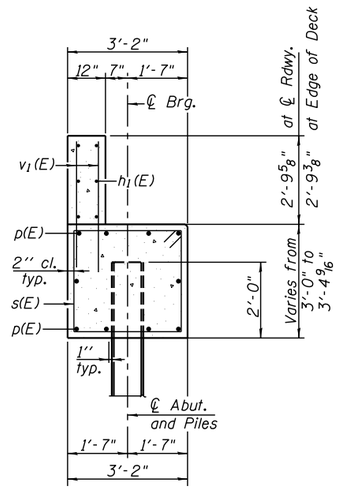
SOUTH ABUTMENT
STRUCTURE NO. 101-9974
SHEET NO. 14 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	248
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

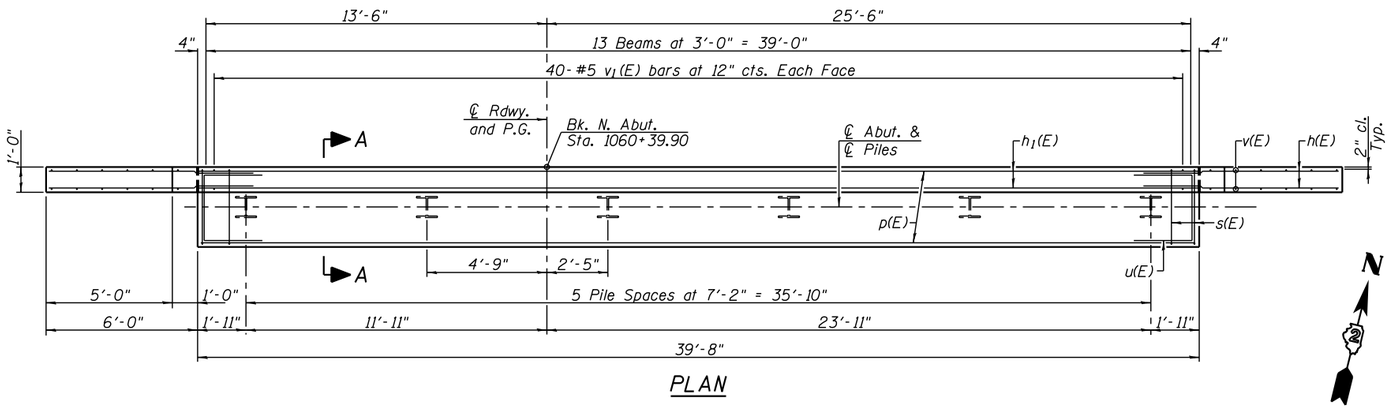
* Cast top of wingwall flush with top of backwall.



ELEVATION
(Looking North)



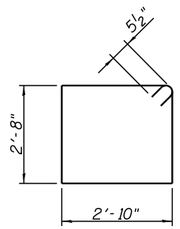
SECTION A-A



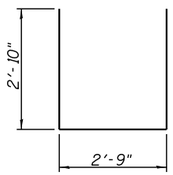
PLAN

PILE DATA

Type: HP12X53
Nominal Required Bearing: 399 kips
Factored Resistance Available: 220 kips
Est. Length: 50'
No. Production Piles: 5
No. Test Piles: 1



BAR s(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#6	8'-10"	
h_1(E)	6	#4	40'-8"	
h_2(E)	8	#5	7'-6"	
p(E)	10	#7	39'-4"	
s(E)	39	#5	11'-11"	
u(E)	8	#6	8'-5"	
v(E)	24	#5	5'-8"	
v_1(E)	80	#5	4'-0"	
Structure Excavation		Cu. Yd.	64.0	
Concrete Structures		Cu. Yd.	21.4	
Reinforcement Bars, Epoxy Coated		Pound	2410	
Furnishing Steel Piles, HP12X53		Foot	250	
Driving Piles		Foot	250	
Test Pile, Steel HP12X53		Each	1	

Notes:
For details of piles, see sheet 17 of 22.
Cast backwall after beams have been erected and concrete wearing surface has been placed.
Space reinforcement in cap to miss beam anchor dowels.
All exposed edges shall have a standard ¾" chamfer.

AD-2742-0 7-1-10

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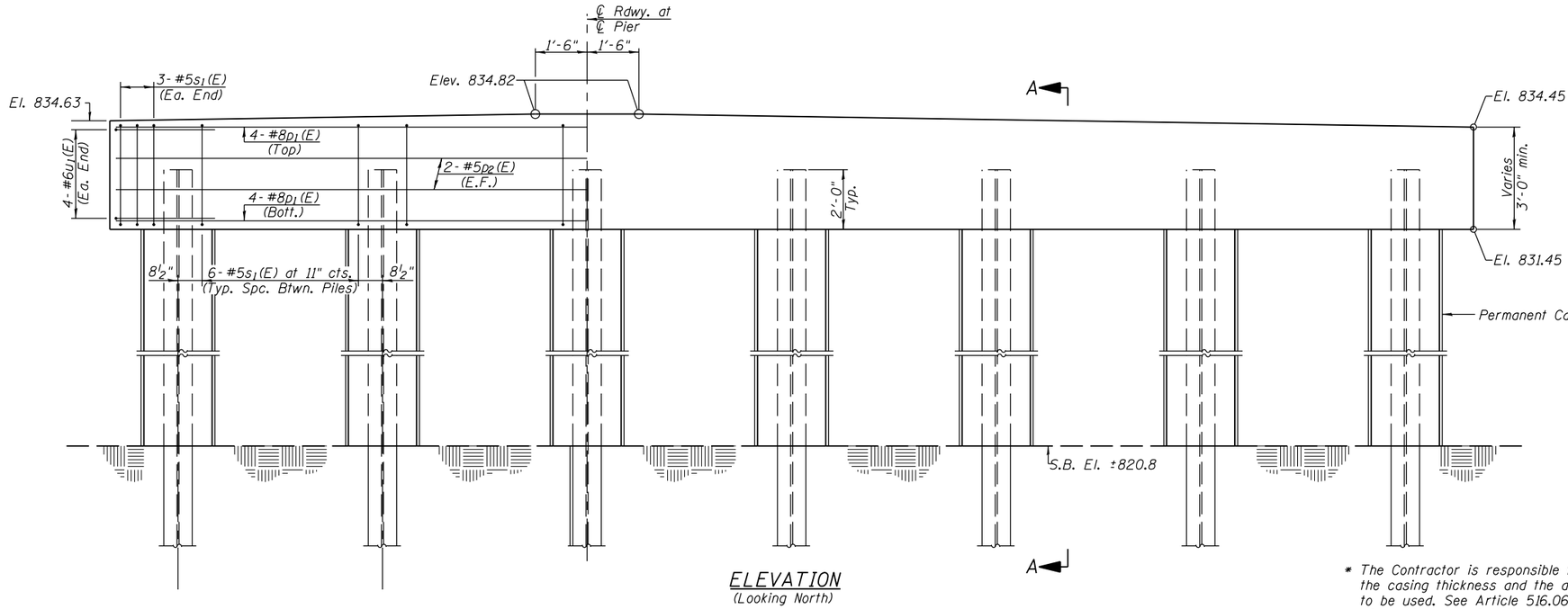
PLOT DATE = ___	CHECKED - ___	REVISED - ___

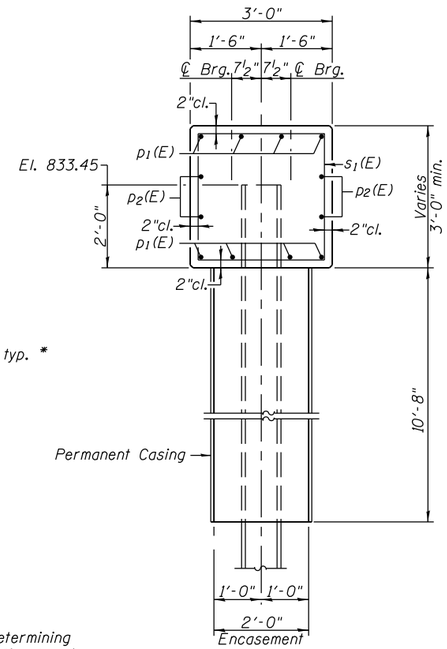
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT
STRUCTURE NO. 101-9974
SHEET NO. 15 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	249
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

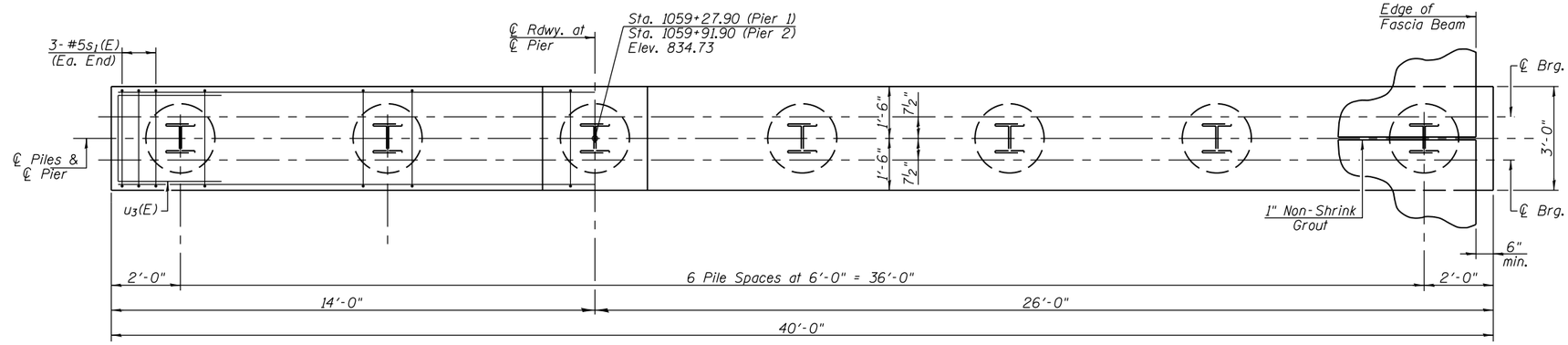


ELEVATION
(Looking North)

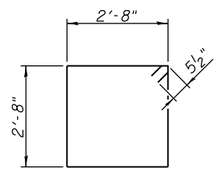


SECTION A-A

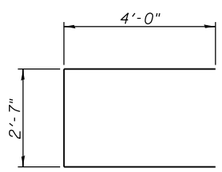
* The Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) and 1006.05(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.



PLAN



BAR s1(E)



BAR u3(E)

PILE DATA

	Pier 1	Pier 2
Type:	HP12X63	HP12X63
Nominal Required Bearing:	431 kips	431 kips
Factored Resistance Available:	237 kips	237 kips
Est. Length:	42′	55′
No. Production Piles:	6	6
** No. Test Piles:	1	1

** Drive test piles at west end of piers.

TWO PIERS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p1(E)	16	#8	39′-8"	——
p2(E)	8	#5	39′-8"	——
s1(E)	84	#5	11′-7"	□
u1(E)	16	#6	10′-7"	⊐
Concrete Structures			Cu. Yd.	28.8
Reinforcement Bars, Epoxy Coated			Pound	3300
Furnishing Steel Piles, HP12X63			Foot	582
Driving Piles			Foot	582
Test Pile, Steel HP12X63			Each	2
Concrete Encasement			Cu. Yd.	17.4
Permanent Casing			Foot	150

Notes:
All exposed edges shall have standard ¾" chamfer.
Space reinforcement in cap to miss beam anchor dowels.
For details of Piles and Concrete Encasement, see Sheet 17 of 22.

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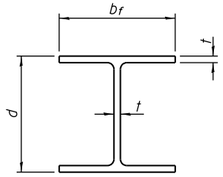
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

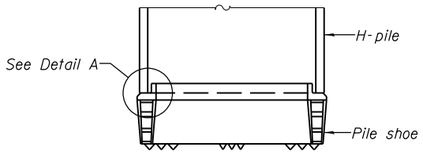
PIERS
STRUCTURE NO. 101-9974
SHEET NO. 16 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	250
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

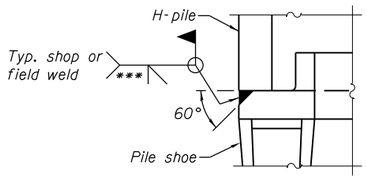


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	$14\frac{1}{4}''$	$14\frac{7}{8}''$	$\frac{13}{16}''$	30''
x102	14''	$14\frac{3}{4}''$	$\frac{11}{16}''$	30''
x89	$13\frac{7}{8}''$	$14\frac{3}{4}''$	$\frac{5}{8}''$	30''
x73	$13\frac{5}{8}''$	$14\frac{5}{8}''$	$\frac{1}{2}''$	30''
HP 12x84	$12\frac{1}{4}''$	$12\frac{1}{4}''$	$\frac{11}{16}''$	24''
x74	$12\frac{1}{8}''$	$12\frac{1}{4}''$	$\frac{5}{8}''$	24''
x63	12''	$12\frac{1}{8}''$	$\frac{1}{2}''$	24''
x53	$11\frac{3}{4}''$	12''	$\frac{7}{16}''$	24''
HP 10x57	10''	$10\frac{1}{4}''$	$\frac{9}{16}''$	24''
x42	$9\frac{3}{4}''$	$10\frac{1}{8}''$	$\frac{7}{16}''$	24''
HP 8x36	8''	$8\frac{1}{8}''$	$\frac{7}{16}''$	18''



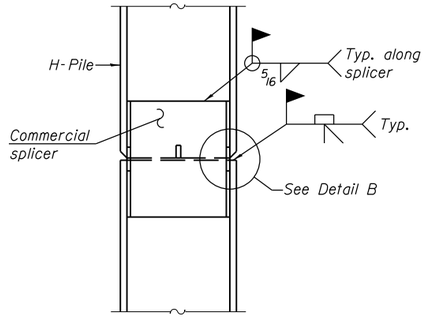
ELEVATION



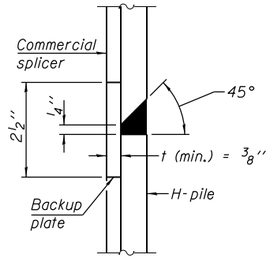
DETAIL A

SHOE ATTACHMENT

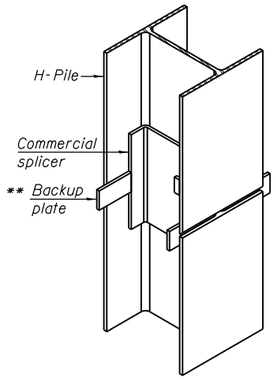
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

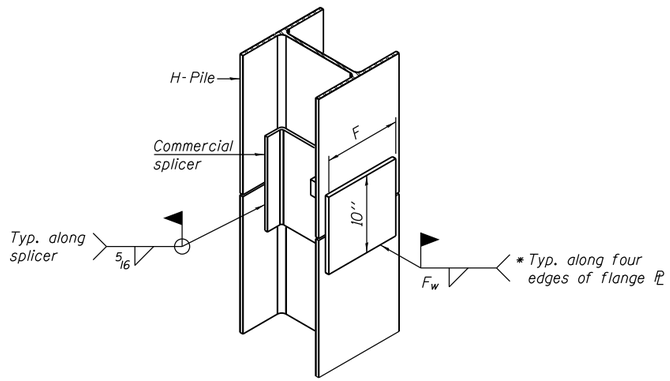


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



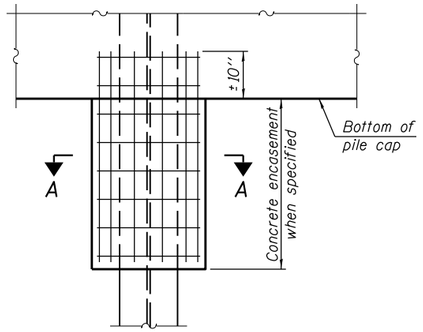
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

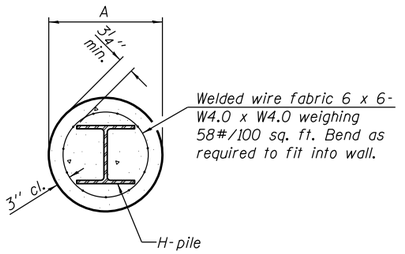
* Interrupt welds ¼'' from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer ($\frac{5}{16}''$ min.).



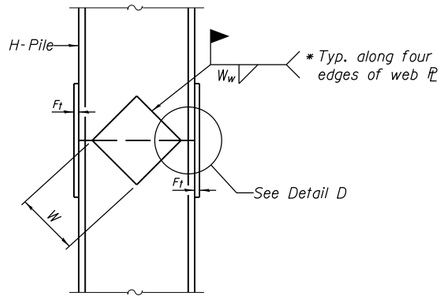
ELEVATION



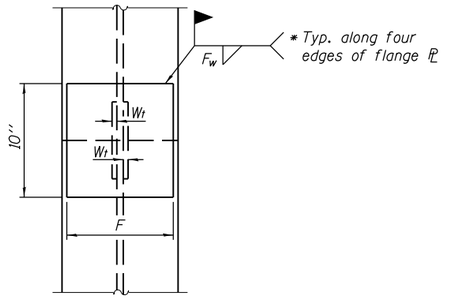
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASEMENT

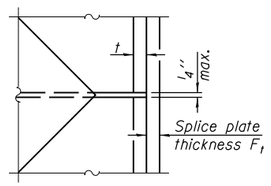
(Forms for encasement may be omitted when soil conditions permit).



ELEVATION



END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_f	W_w
HP 14x117	$12\frac{1}{2}''$	1''	$\frac{7}{8}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x102	$12\frac{1}{2}''$	$\frac{7}{8}''$	$\frac{3}{4}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x89	$12\frac{1}{2}''$	$\frac{3}{4}''$	$\frac{11}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x73	$12\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{9}{16}''$	$7\frac{3}{4}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
HP 12x84	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x74	10''	$\frac{7}{8}''$	$\frac{11}{16}''$	$6\frac{1}{2}''$	$\frac{5}{8}''$	$\frac{1}{2}''$
x63	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x53	10''	$\frac{5}{8}''$	$\frac{1}{2}''$	$6\frac{1}{2}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 10x57	8''	$\frac{3}{4}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
x42	8''	$\frac{5}{8}''$	$\frac{9}{16}''$	$5\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$
HP 8x36	7''	$\frac{5}{8}''$	$\frac{7}{16}''$	$4\frac{1}{4}''$	$\frac{1}{2}''$	$\frac{3}{8}''$

WELDED PLATE FIELD SPLICE

F-HP

2-17-2017

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 101-9974
SHEET NO. 17 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	251
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/29/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55

STRUCT. NO. ____ Latitude 42° 20' 47.65" Northing 2,071,023.3233
Station ____ Longitude -88° 59' 16.71" Easting 2,615,214.1336

BORING NO. B-1c - SW
Station 103+90
Offset 14.50ft Rt CL
Ground Surface Elev. 836.93 ft

Surface Water Elev. 825.70 ft
Stream Bed Elev. 820.65 ft

Groundwater Elev.:
First Encounter 802.9 ft ▼
Upon Completion ____ ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Road Rock				
				9.0
DRY tan SANDY LOAM				
	833.93			
VERY STIFF tan/gray SANDY LOAM TILL	-5	8		
		9	2.0	7.0
	831.43	12	S	
VERY STIFF tan SANDY LOAM TILL		5		
		6	2.3	9.0
	828.93	7	P	
VERY STIFF gray LOAM TILL	-10	3		
		4	2.3	14.0
	826.43	8	B	
VERY STIFF tan SANDY LOAM TILL		4		
		8	3.1	9.0
	823.93	9	P	
STIFF tan SANDY LOAM TILL	-15	4		
		3	1.1	9.0
	821.43	4	S	
SOFT/MEDIUM tan SANDY LOAM TILL		1		
		3	0.5	9.0
	818.93	5	B	
No Recovery	-20	18		
		14		
No Recovery *(continued)*	816.43			
MEDIUM tan SANDY LOAM TILL, very little recovery				
	813.93			
No Recovery	-25			
	811.43			
VERY SOFT tan SANDY LOAM				
	808.93			
VERY SOFT gray SANDY LOAM TILL	-30			
	806.43			
MEDIUM/STIFF tan SILTY LOAM with dirty SAND lens				
	803.43			
VERY DENSE tan weathered LIMESTONE	-35			
	801.43			
VERY DENSE tan weathered LIMESTONE				
Auger Refusal @ 39'	797.93			
Borehole continued with rock coring.	-40			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
816.43	7		
	2		
	2	0.5	9.0
813.93	4	P	
-25	0		
	1		
811.43	2		
	0		
	0	0.0	14.0
808.93	1	P	
-30	0		
	0	0.0	14.0
806.43	1	P	
	1		
	2	1.0	21.0
803.43	2	P	
	100/2"		
-35			
801.43			
	100/2"		
797.93			
-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Page 1 of 1

Date 6/29/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago CORING METHOD ____

CORING BARREL TYPE & SIZE ____

STRUCT. NO. ____ Core Diameter ____ in
Station ____ Top of Rock Elev. 797.93 ft
Begin Core Elev. 797.93 ft

BORING NO. B-1c - SW Latitude 42° 20' 47.65"
Station 103+90 Longitude -88° 59' 16.71"
Offset 14.50ft Rt CL Northing 2,071,023.3233
Ground Surface Elev. 836.93 ft Easting 2,615,214.1336

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Run #1 Time 14 minutes FAIR tan LIMESTONE 100% Recovery RQD 28.5" = 48%	797.93	1	100	48	14	48.0
	-40					
	792.93					
Run #2 Time 11 minutes FAIR tan LIMESTONE 100% Recovery RQD 9.5" = 16%		2	100	16	11	16.0
	-45					
	787.93					
Run #3 Time 12 minutes VERY POOR tan LIMESTONE 90% Recovery RQD 4" = 7%		3	90	7	12	7.0
	-50					
	782.93					
End of Boring	-55					

Northing and Easting were calculated using the ILHP-WF coordinate system

Color pictures of the cores ____
Cores will be stored for examination until ____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

Sta. 103+90 (Borings) = Sta. 1058+70.90 (℄ Park Road)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 7/17/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55

STRUCT. NO.
Station

Latitude 42° 20' 51.01" Northing 2,071,361.5370
Longitude -88° 59' 18.43" Easting 2,615,080.2059

BORING NO. B-2c - NW
Station 102+32
Offset 28.00R Rt CL
Ground Surface Elev. 834.63 ft

Surface Water Elev. 825.70 ft
Stream Bed Elev. 820.65 ft

Groundwater Elev.:
First Encounter 810.6 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM light brown LOAM					
	833.13			0.5	11.0
VERY STIFF tan SANDY LOAM			4		
			3	2.3	14.0
	831.63		6	B	
VERY STIFF tan SANDY LOAM TILL			1		
		-5	3	2.6	9.0
	829.13		5	P	
MEDIUM tan SANDY LOAM TILL			0		
			1	0.7	10.0
	826.63		3	B	
SOFT tan SANDY LOAM TILL			1		
		-10	1	0.4	12.0
	824.13		2	P	
SOFT tan SANDY LOAM			0		
			0	0.3	11.0
	821.63		2	B	
SOFT tan SANDY LOAM TILL			0		
		-15	0	0.3	11.0
	819.13		1	B	
STIFF tan SANDY LOAM TILL			8		
			8	1.9	10.0
	816.63		9	P	
STIFF tan SANDY LOAM TILL			8		
		-20	9	1.0	11.0
STIFF tan SANDY LOAM TILL (continued)	813.63		10	B	
VERY DENSE tan weathered LIMESTONE with dirty SAND top 6"	811.63		13 14 90		
VERY DENSE tan SANDY GRAVEL	809.13	-25	60 42 56		
VERY DENSE tan SANDY GRAVEL	806.63		25 39 32		
VERY DENSE tan SANDY GRAVEL	804.13	-30	27 38 49		
MEDIUM tan clean coarse SAND	801.13		11 12 14		
DENSE light gray medium SAND	799.13	-35	14 17 21		
Wash DENSE light gray medium SAND	796.63		21 23 26		
VERY DENSE gray fine SAND		-40	19 26		

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 7/17/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55

STRUCT. NO.
Station

Latitude 42° 20' 51.01" Northing 2,071,361.5370
Longitude -88° 59' 18.43" Easting 2,615,080.2059

BORING NO. B-2c - NW
Station 102+32
Offset 28.00R Rt CL
Ground Surface Elev. 834.63 ft

Surface Water Elev. 825.70 ft
Stream Bed Elev. 820.65 ft

Groundwater Elev.:
First Encounter 810.6 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

		DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY DENSE gray fine SAND (continued)	794.13		35		
DENSE light gray fine SAND			8 16 25		
	791.13				
HARD tan CLAY LOAM TILL			19		
		-45	23	4.5	11.0
	789.13		23	P	
Wash HARD tan CLAY LOAM TILL	786.63		10 16 25	4.5 B	12.0
VERY STIFF gray SILTY CLAY LOAM TILL		-50	9 12	2.9	16.0
	784.13		20	B	
HARD gray SILTY CLAY LOAM TILL			12 13	4.1	12.0
	781.63		21	B	
HARD gray CLAY LOAM TILL		-55	9 16	7.4	14.0
	779.13		22	B	
HARD dark gray CLAY LOAM			12 18	6.8	19.0
	776.63		22	B	
VERY STIFF gray SILTY CLAY		-60	16 23	2.5	17.0
VERY STIFF gray SILTY CLAY (continued)	773.63		26	P	
VERY DENSE light gray very fine SILTY SAND (shale?)	771.13		55 47 40		13.0
VERY STIFF gray SILTY LOAM with fine SAND lens	769.13	-65	10 14 18	2.1 S	15.0
VERY STIFF gray SANDY LOAM TILL	766.63		8 13 28	2.3 S	12.0
STIFF gray SANDY LOAM TILL with SAND lens	764.13	-70	9 11 13	1.4 B	12.0
VERY STIFF gray/tan SANDY LOAM TILL with SAND lens	761.63		12 18 29	3.8 P	12.0
End of Boring		-76			

Northing and Easting were calculated using the ILHP-WF coordinate system

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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 102+32 (Borings) = Sta. 1060+28.90 (℄ Park Road)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 7/18/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55

STRUCT. NO.
Station

Latitude 42° 20' 48.30" Longitude -88° 59' 15.34" Northing 2,071,090.7112 Easting 2,615,316.2145

BORING NO. B-3c - SE
Station 103+79
Offset 35.50ft Lt CL
Ground Surface Elev. 833.83 ft

Surface Water Elev. 825.70 ft
Stream Bed Elev. 820.65 ft

Groundwater Elev.:
First Encounter 812.3 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM light brown SILTY CLAY LOAM	832.33		0.5 P	15.0
Rock	830.83			
STIFF light brown SANDY CLAY LOAM	-5 828.33	7 5 7	1.7 B	15.0
STIFF tan SANDY LOAM	825.83	5 3 2	1.5 P	10.0
SOFT tan SANDY LOAM	-10 823.33	0 1 5	0.4 B	11.0
MEDIUM tan SANDY LOAM TILL	820.83	10 9 13	0.8 S	8.0
STIFF tan SANDY LOAM TILL	-15 818.33	11 13 13	1.1 S	8.0
HARD tan SANDY LOAM TILL	815.33	14 18 23	4.1 B	9.0
VERY DENSE tan SANDY GRAVEL, Dry	-20	15 16		
VERY DENSE tan SANDY GRAVEL, Dry *(continued)*	812.83	43		
VERY DENSE tan SAND and medium GRAVEL	810.83	17 33 41		
DENSE tan SANDY GRAVEL	-25 808.33	11 21 23		
VERY DENSE tan SAND and medium GRAVEL	805.83	19 23 32		
VERY DENSE tan SANDY GRAVEL	-30 802.83	17 26 26		
Wash HARD tan SANDY CLAY LOAM TILL	800.33	10 17 25	5.6 S	11.0
HARD tan SANDY CLAY LOAM TILL	-35 798.33	10 17 27	6.6 B	12.0
HARD redish brown CLAY LOAM TILL with bottom 5.5" weathered LIMESTONE	795.33	13 100/11.5"	5.5 S	20.0
VERY DENSE tan weathered LIMESTONE	-40	33 30		

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Date 7/18/17

ROUTE SPR DESCRIPTION C92-007-92 Bridge in Rock Cut State Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-55

STRUCT. NO.
Station

Latitude 42° 20' 48.30" Longitude -88° 59' 15.34" Northing 2,071,090.7112 Easting 2,615,316.2145

BORING NO. B-3c - SE
Station 103+79
Offset 35.50ft Lt CL
Ground Surface Elev. 833.83 ft

Surface Water Elev. 825.70 ft
Stream Bed Elev. 820.65 ft

Groundwater Elev.:
First Encounter 812.3 ft ▼
Upon Completion Wash ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
VERY DENSE tan weathered LIMESTONE	793.33	36		
VERY DENSE tan weathered LIMESTONE	790.33	27 33 35		
MEDIUM tan weathered LIMESTONE	-45 787.83	13 12 13		
VERY DENSE tan weathered LIMESTONE, top 6" LOAM TILL	785.33	17 100/9"	4.5 P	9.0
VERY DENSE tan weathered LIMESTONE	-50 783.33	100/6"		
VERY DENSE tan weathered LIMESTONE	780.83	100/4"		
VERY DENSE tan weathered LIMESTONE	-55 778.33	100/9"		
VERY DENSE tan weathered LIMESTONE	775.83	100/11"		
VERY DENSE tan weathered LIMESTONE *(continued)*	772.83			
End of Boring				

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 103+79 (Borings) = Sta. 1058+81.90 (℄ Park Road)

PROJECT Pedestrian Path / Footbridge, Rock Cut State Park, Winnebago County, IL

CLIENT IDNR, 1 Natural Resource Way, Springfield, Illinois

BORING 1 DATE STARTED 10-4-10 DATE COMPLETED 10-4-10 JOB L-75,864

ELEVATIONS

GROUND SURFACE 834.0

END OF BORING 779.0

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING 23.0 '

▽ AT END OF BORING 23.5 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
0								0.2	833.8	FILL - Dark brown clayey TOPSOIL A-8
		1	SS	20	9.6					FILL - Brown SILTY LOAM, moist A-4
5		2	SS	15	7.5			5.3	828.7	
		3	SS	9	8.9	1.86 2.75*	134.7			FILL - Brown CLAY LOAM, trace gravel, damp A-4
		4	SS	100/5"	5.0			8.0	826.0	FILL - Brown fractured Rock pieces, moist
10		5	SS	34	7.9	4.5+*	138.9	10.5	823.5	
		6	SS	16	8.8	2.26 3.5*	136.1			FILL - Brown CLAY LOAM, trace gravel, moist A-4
15		7	SS	22	9.9	2.5*	132.9			
		8	SS	16	11.3	1.75 2.0*	129.1			
20		9	SS	22	10.5	2.0*	131.3			
								23.0	811.0	▽
25		10	SS	62						Very dense to dense brown SAND and GRAVEL, occasional Cobbles, saturated A-1
		11	SS	47						
30		12	SS	48						
		13	SS	45						
35								37.0	797.0	
		14	SS	25						Firm to dense brown SAND and GRAVEL, occasional Cobbles, saturated A-1
40										

TSC 7/9/10 SPJ TSC_ALL.GDT 10/18/10

DRILL RIG NO. 315

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT Pedestrian Path / Footbridge, Rock Cut State Park, Winnebago County, IL

CLIENT IDNR, 1 Natural Resource Way, Springfield, Illinois

BORING 1 DATE STARTED 10-4-10 DATE COMPLETED 10-4-10 JOB L-75,864

ELEVATIONS

GROUND SURFACE 834.0

END OF BORING 779.0

WATER LEVEL OBSERVATIONS

▼ WHILE DRILLING 23.0 '

▽ AT END OF BORING 23.5 '

▼ 24 HOURS

DISTANCE BELOW SURFACE IN FEET	RECOVERY	SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
40								40.0	794.0	
		15	SS	38						Firm to dense brown SAND and GRAVEL, occasional Cobbles, saturated A-1
45								47.0	787.0	
		16	SS	35	12.0	4.5+*				Hard to very tough brown SANDY LOAM, trace gravel, moist A-4
50										
		17	SS	32	14.2	3.21 3.5*				
55										End of Boring at 55.0'
60										* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
65										
70										
75										
80										

TSC 7/9/10 SPJ TSC_ALL.GDT 10/18/10

DRILL RIG NO. 315

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = ___ | DESIGNED - ___ | REVISED - ___

CHECKED - ___ | REVISED - ___

PLOT SCALE = ___ | DRAWN - ___ | REVISED - ___

PLOT DATE = ___ | CHECKED - ___ | REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 101-9974

SHEET NO. 21 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	255
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

PROJECT **Pedestrian Path / Footbridge, Rock Cut State Park, Winnebago County, IL**

CLIENT **IDNR, 1 Natural Resource Way, Springfield, Illinois**

BORING **2** DATE STARTED **10-1-10** DATE COMPLETED **10-1-10** JOB **L-75,864**

ELEVATIONS
GROUND SURFACE **834.2**
END OF BORING **755.2**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **24.0 '**
▽ AT END OF BORING **27.0 '**
▼ 24 HOURS

SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
						0.5	833.7	FILL - Brown clayey TOPSOIL
1	SS	8	7.4		123.0			FILL - Brown CLAY LOAM, trace gravel, moist A-6
2	SS	100/5"				3.0	831.2	FILL - Boulders and Plastic
3	SS	12	8.3	3.25*	131.6	5.5	828.7	FILL - Brown CLAY LOAM, trace gravel, moist A-6
4	SS	11	16.9	3.5*	115.7	8.0	826.2	FILL - Brown and gray CLAY LOAM, trace gravel, moist A-6
5	SS	19	10.1	2.0*	126.4			
6	SS	30	8.2	4.5+*		13.0	821.2	FILL - Brown CLAY LOAM, trace gravel, moist A-6
7	SS	34	7.9			15.5	818.7	Dense brown SANDY LOAM, trace gravel, moist A-2
8	SS	40	8.7	4.5+* N.P.		18.0	816.2	
9	SS	48	9.2	4.5+* N.P.				Hard brown CLAY, trace gravel, damp A-6
10	SS	37	9.8	3.78 4.25*				▼
A 11 B	SS	32	9.3	4.25* N.P.		22.0		
12	SS	38	8.5			27.0	807.2	▽
13	SS	78	9.1					Dense gray SANDY LOAM and GRAVEL, occasional Cobbles, saturated A-2-4
						33.0	801.2	
14	SS	56	11.6					Very dense brown GRAVEL and SAND, some Cobbles, saturated A-1

DISTANCE BELOW SURFACE IN FEET

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. **315**

PROJECT **Pedestrian Path / Footbridge, Rock Cut State Park, Winnebago County, IL**

CLIENT **IDNR, 1 Natural Resource Way, Springfield, Illinois**

BORING **2** DATE STARTED **10-1-10** DATE COMPLETED **10-1-10** JOB **L-75,864**

ELEVATIONS
GROUND SURFACE **834.2**
END OF BORING **755.2**

WATER LEVEL OBSERVATIONS
▼ WHILE DRILLING **24.0 '**
▽ AT END OF BORING **27.0 '**
▼ 24 HOURS

SAMPLE NO.	SAMPLE TYPE	N	WC	Qu	γ_{DRY}	DEPTH	ELEV.	SOIL DESCRIPTIONS
								Very dense brown GRAVEL and SAND, some Cobbles, saturated A-1
15	SS	100/5"	10.5			43.0	791.2	
								Very dense brown SAND and fractured Rock pieces, occasional Boulders, wet A-1
16	SS	50	11.8			48.0	786.2	
17	SS	61	11.7					Very dense brown SANDY LOAM and fractured GRAVEL, occasional Cobbles, moist A-2
18	SS	87	12.9					
								* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.
19	SS	43/6" 50/5"	16.2			63.0	771.2	Very dense brown SILTY LOAM, trace gravel occasional Cobbles, moist A-4
20	SS	42/6" 50/1"	15.7	2.5*		68.0	766.2	Very dense brown SANDY LOAM, trace gravel, seams of clay, occasional Cobbles, moist A-2/A-4
						70.0	764.2	Veery dense brown SANDY LOAM, occasional Cobbles, moist A-2
21	SS	32/5" 50/4"	14.2			72.0	762.2	
								Very dense brown fine SAND and Rock flour, occasional Cobbles, moist A-2
22	SS	100/4"	13.2					End of Boring at 79.0'

DISTANCE BELOW SURFACE IN FEET

Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

DRILL RIG NO. **315**

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

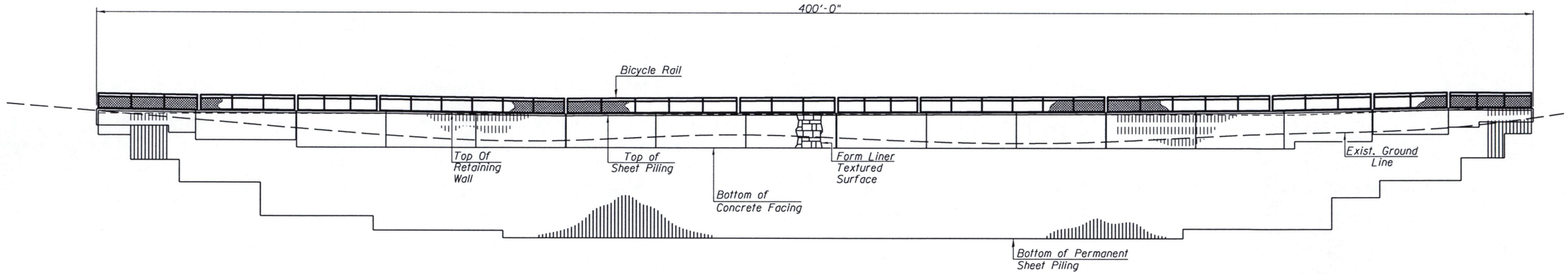
USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

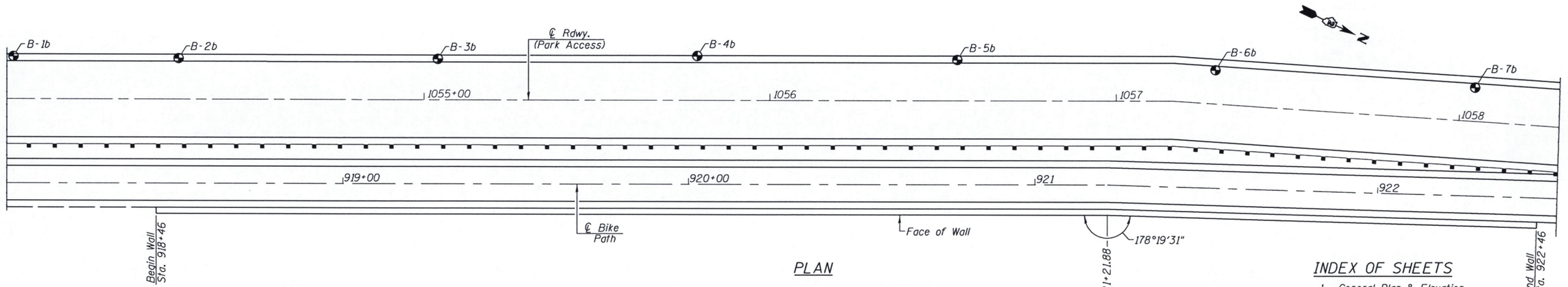
BORING LOGS
STRUCTURE NO. 101-9974
SHEET NO. 22 OF 22 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	256
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

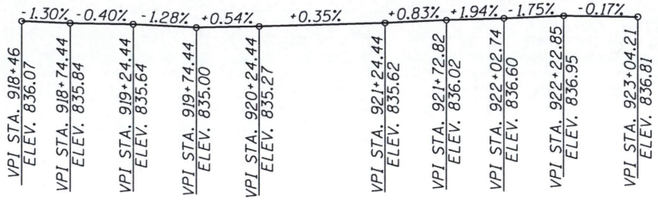
Benchmark: IDNR Water Resources Tablet on S.W. Wingwall, 12.6' Lt. Sta. 1058+85.6 El. 836.63



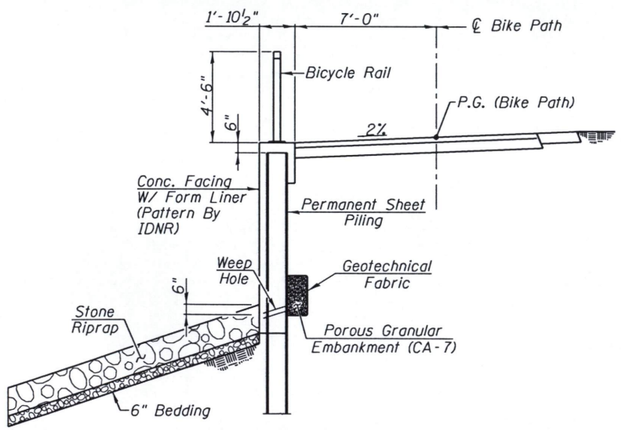
ELEVATION



PLAN



PROFILE GRADE
(Along Bike Path)



SECTION THRU PERMANENT SHEET PILING RETAINING WALL

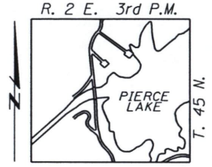
GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
The Contractor may lower the water elevation of the lake in order to facilitate construction of the permanent sheet pile retaining wall. See Special Provisions for Traffic Control Plan for requirements.
Permanent sheet piling shall consist of steel sheet piling with minimum section properties equal to that of PZ27. The contractor may use an equivalent steel sheet pile size at no additional cost to IDNR and without delaying the construction schedule so long as the equivalent sheet pile size meets the minimum effective section modulus and moment of inertia as noted below.

Permanent Sheet Piling Section Property Requirements:
Minimum Sheet Pile Section Modulus = 30.2 $in^3/ft.$ of wall
Minimum Sheet Pile Moment of Inertia = 184.2 $in^4/ft.$ of wall

Sheet pile retaining wall dimensions based on PZ27 sheet piling. If the contractor uses a different sheet pile section, dimensions and reinforcement must change as required to maintain minimum clearance. Modifications must be approved by the Engineer and must be provided at no additional cost to IDNR and without delaying construction schedule.

INDEX OF SHEETS



LOCATION SKETCH

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (ASTM A 72 Grade 50 Sheet Piling)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

MARK A. HENDERSON
931
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS

Mark A Henderson 8/31/2018
Exp. Date: 11 / 30 /2018

GENERAL PLAN & ELEVATION
RETAINING WALL ALONG
PARK ACCESS ROAD
SEC ROCK CUT 2018
WINNEBAGO COUNTY
STA. 918+46 TO 922+46

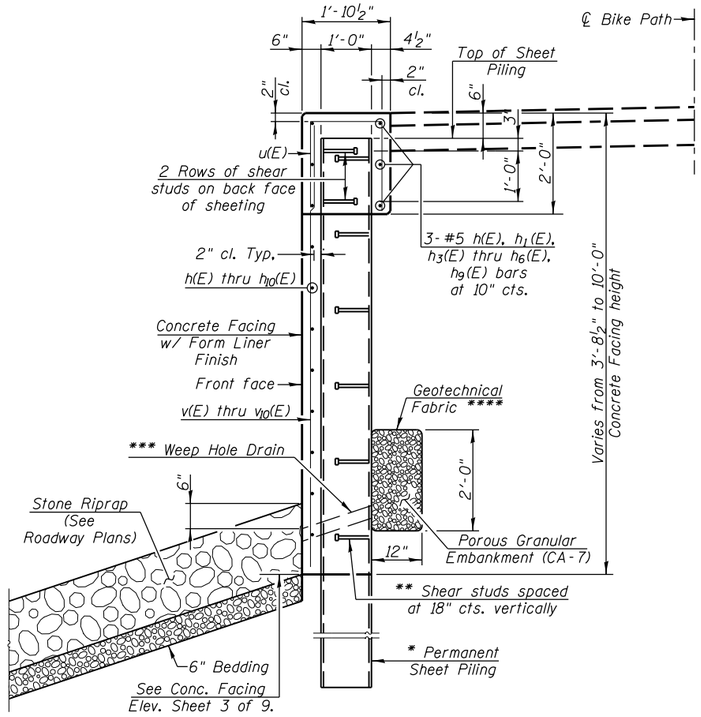
V&K Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___
		CHECKED - ___	REVISED - ___
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___
	PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

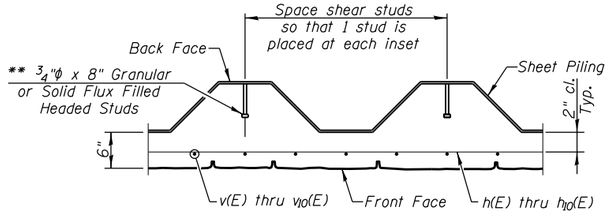
GENERAL PLAN AND ELEVATION

SHEET NO. 1 OF 9 SHEETS

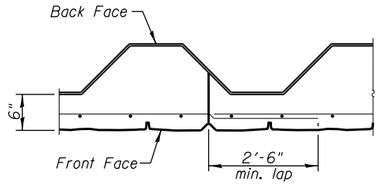
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	257
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



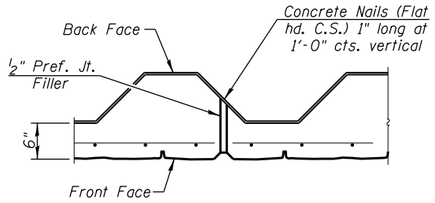
SECTION THRU WALL
Sta. 918+46.5 to Sta. 922+45.5



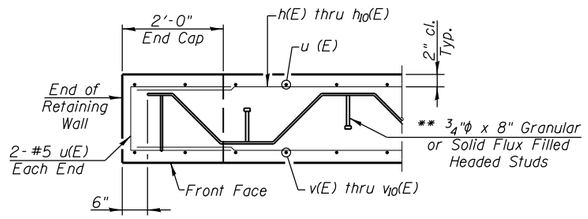
TYPICAL SECTION THRU WALL



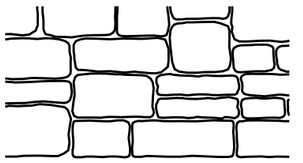
CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL



SECTION THRU CAP



FORMLINER ELEVATION
(See Special Provision for "Form Liner Textured Surface" for pre-approved form liner patterns)

FORMLINER SECTION

BILL OF MATERIAL

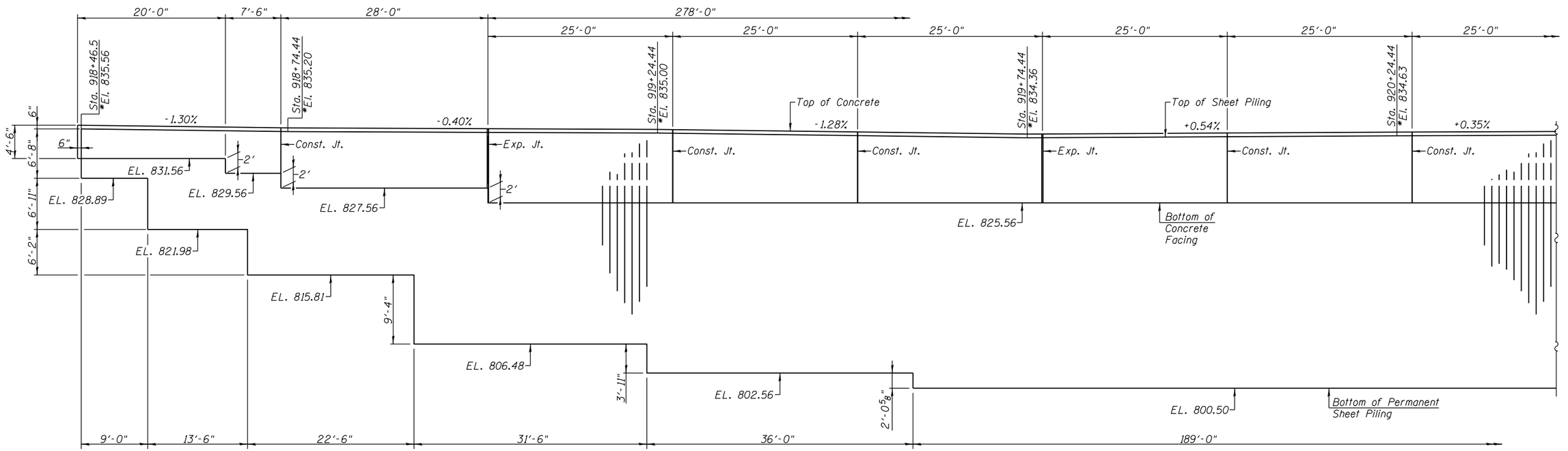
Item	Unit	Quantity
Concrete Structures	Cu. Yd.	156.1
Reinforcement Bars, Epoxy Coated	Pound	11330
Structure Excavation	Cu. Yd.	81
Permanent Sheet Piling	Sq. Ft.	11528
Form Liner Textured Surface	Sq. Ft.	3517
Bicycle Railing	Foot	399
Painting Steel Railing	Foot	399
Porous Granular Embankment	Cu. Yd.	45

* Permanent Sheet Piling shall be PZ27.

** Shear studs shall be ¾" dia. x 8" Granular or solid Flux Filled Headed Studs conforming to 505.08 of the Standard Specifications automatically end welded in the field to Sheet Piling. The cost of the studs is included in the cost of Permanent Sheet Piling.

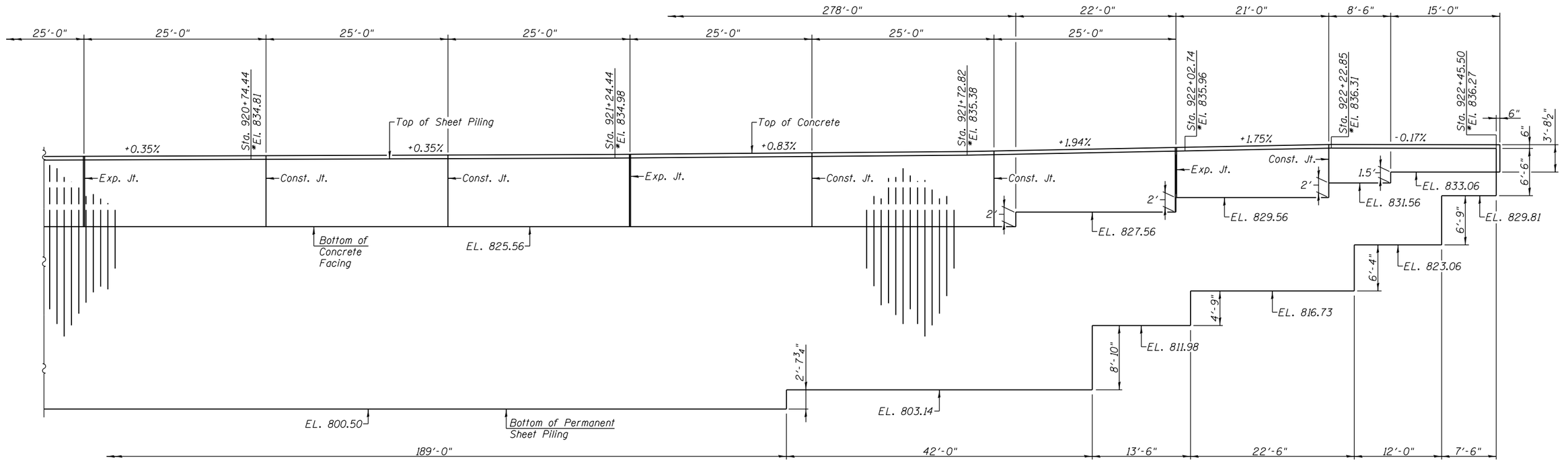
*** Weep holes spacing shall be at ±8'-0" horizontally. Cost included with Permanent Sheet Piling.

**** Cost included with Porous Granular Embankment.



SHEET PILE ELEVATION

*Elevations given at top of sheet piling



SHEET PILE ELEVATION

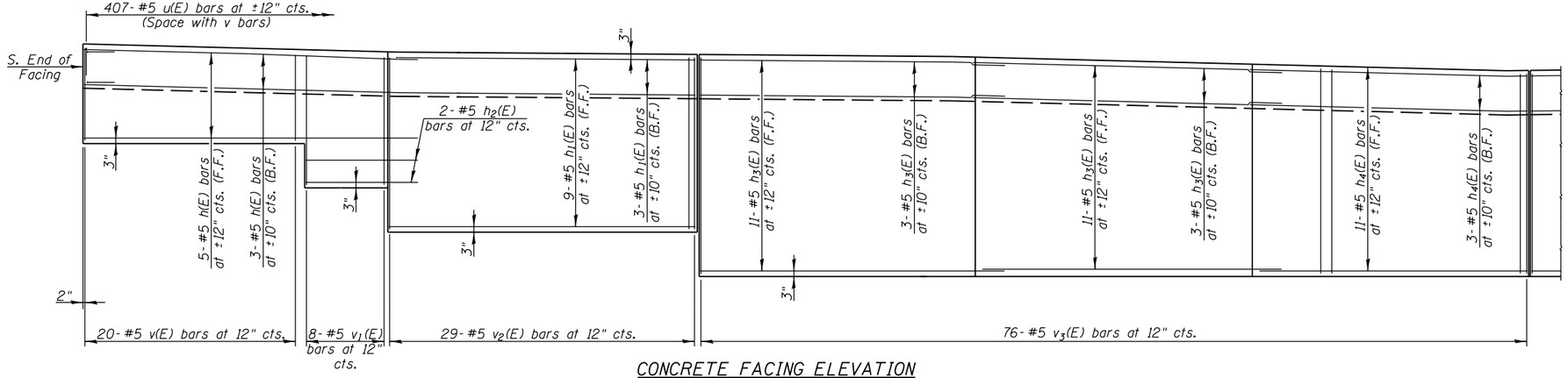
*Elevations given at top of sheet piling

Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___
		CHECKED - ___	REVISED - ___
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___
	PLOT DATE = ___	CHECKED - ___	REVISED - ___

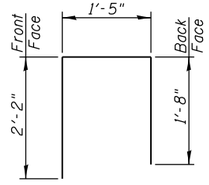
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL
PERMANENT SHEET PILING DETAILS
SHEET NO. 3 OF 9 SHEETS

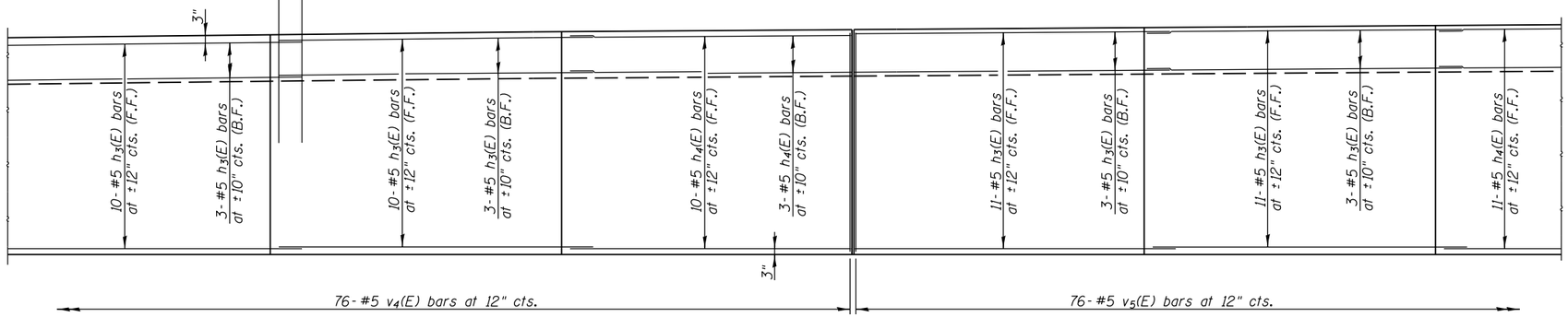
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	259
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



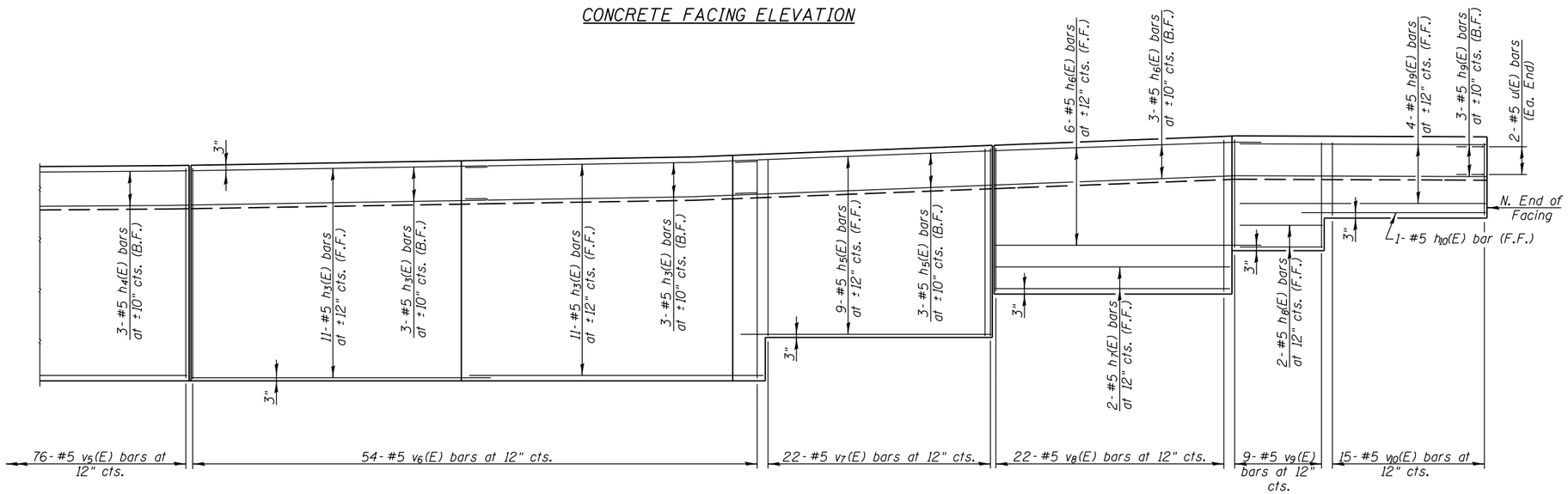
CONCRETE FACING ELEVATION



BAR u(E)



CONCRETE FACING ELEVATION



CONCRETE FACING ELEVATION

MIN. HORIZONTAL BAR LAP

#5 bar = 2'-6"

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	8	#5	30'-0"	——
h_1(E)	12	#5	27'-8"	——
h_2(E)	2	#5	10'-0"	——
h_3(E)	110	#5	27'-6"	——
h_4(E)	41	#5	24'-8"	——
h_5(E)	12	#5	24'-8"	——
h_6(E)	9	#5	23'-6"	——
h_7(E)	2	#5	20'-8"	——
h_8(E)	2	#5	8'-2"	——
h_9(E)	7	#5	23'-2"	——
h_{10}(E)	1	#5	17'-0"	——
u(E)	411	#5	5'-3"	⌐
v(E)	20	#5	3'-10"	——
v_1(E)	8	#5	5'-9"	——
v_2(E)	29	#5	7'-8"	——
v_3(E)	76	#5	8'-11"	——
v_4(E)	76	#5	9'-0"	——
v_5(E)	76	#5	9'-3"	——
v_6(E)	54	#5	9'-6"	——
v_7(E)	22	#5	8'-0"	——
v_8(E)	22	#5	6'-6"	——
v_9(E)	9	#5	4'-9"	——
v_{10}(E)	15	#5	3'-3"	——
Reinforcement Bars, Epoxy Coated			Pound	11,330
Concrete Structures			Cu. Yd.	156.1

See Sheet 2 of 9 for Section Thru Sheet Pile Retaining Wall and Details.

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

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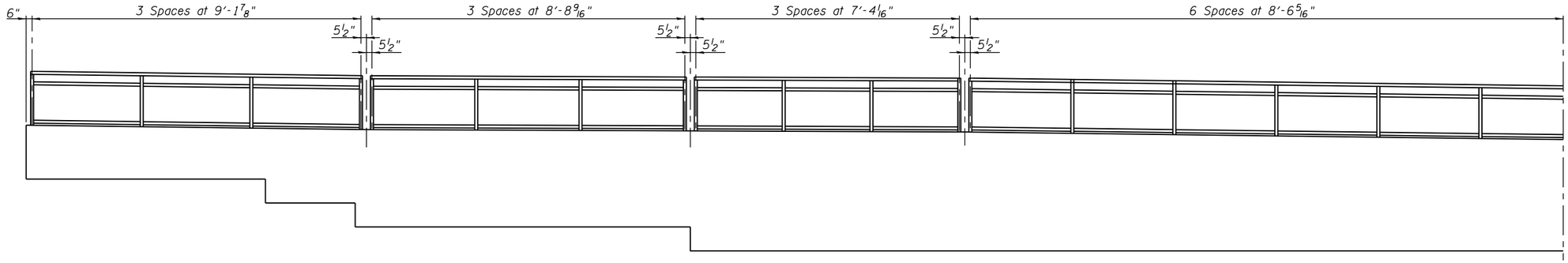
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

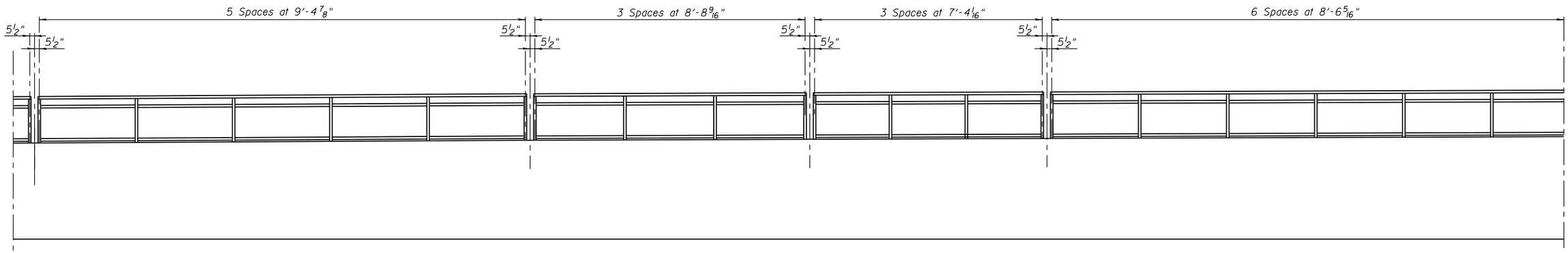
REINFORCEMENT DETAILS

SHEET NO. 4 OF 9 SHEETS

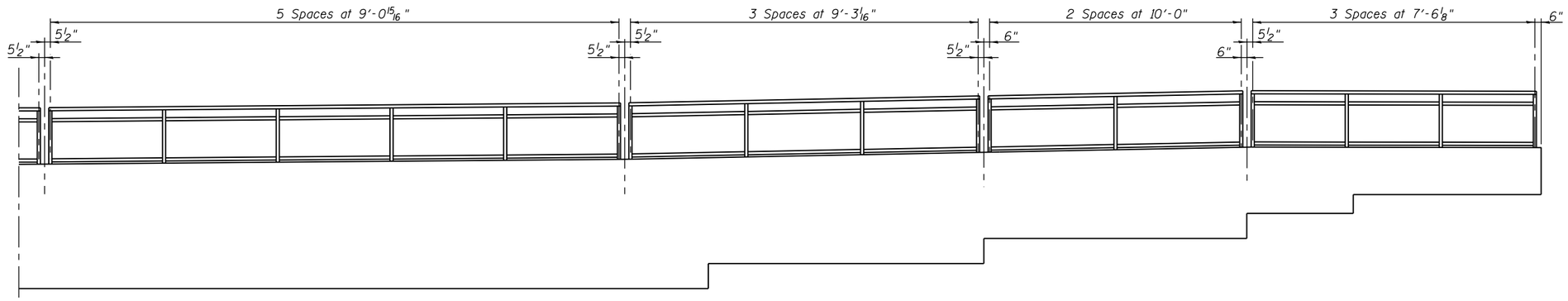
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	260
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



ELEVATION



ELEVATION



ELEVATION

See Sheet 6 of 9 for Bicycle Railing Details.

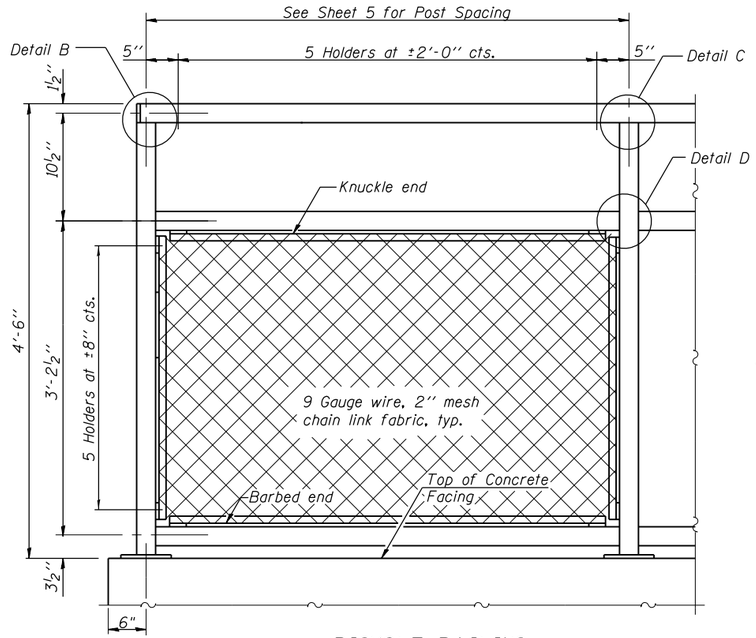
Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033	USER NAME = ___	DESIGNED - ___	REVISED - ___
		CHECKED - ___	REVISED - ___
	PLOT SCALE = ___	DRAWN - ___	REVISED - ___
	PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

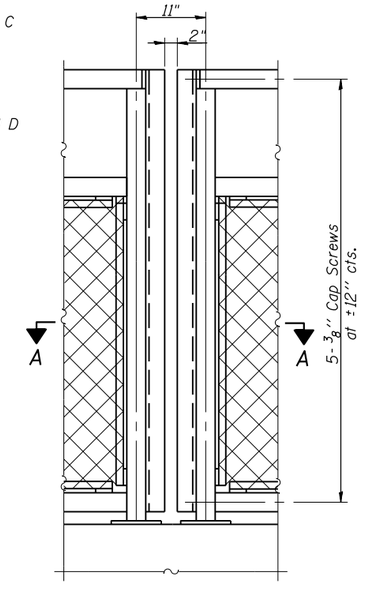
BICYCLE RAILING

SHEET NO. 5 OF 9 SHEETS

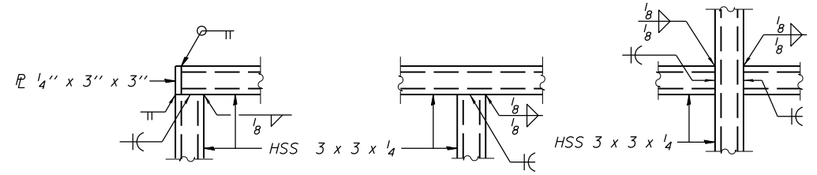
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	ROCK CUT 2018	WINNEBAGO	406	261
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		



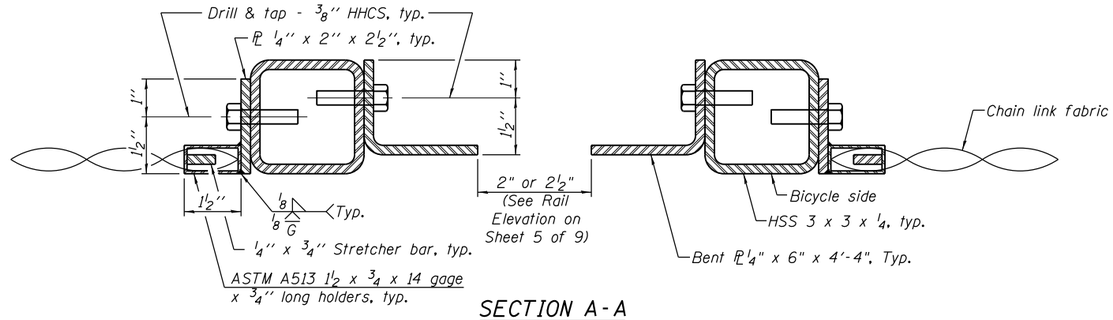
BICYCLE RAILING



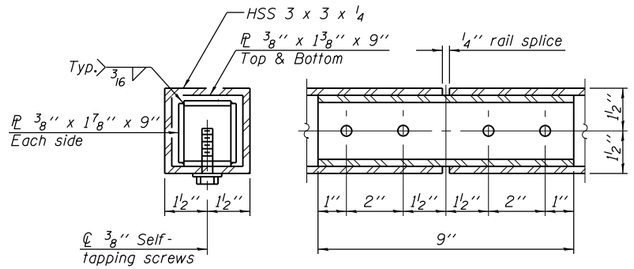
DETAIL A



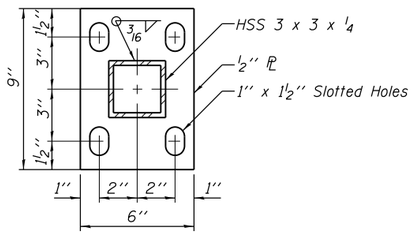
DETAIL B DETAIL C DETAIL D



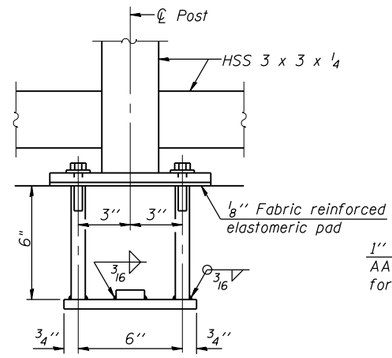
SECTION A-A

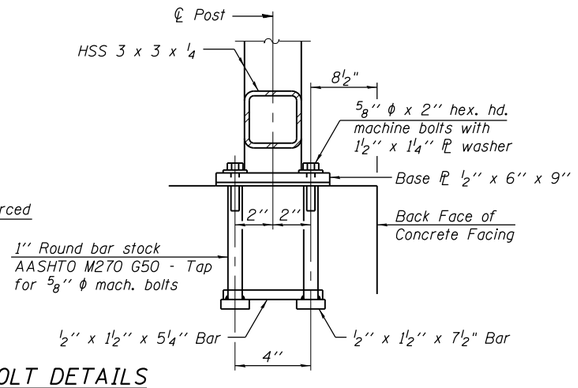


RAIL SPLICE



BASE ℄





ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting ⅝" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

Notes:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

See Special Provisions for "Painting Steel Railing."

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	399.0
Painting Steel Railing	Foot	399.0

R-29

(10'-0" Maximum Post Spacing)

Veenstra & Kimm, Inc.
Springfield, IL. Phone: (217)544-8033

USER NAME = ___	DESIGNED - ___	REVISED - ___
	CHECKED - ___	REVISED - ___
PLOT SCALE = ___	DRAWN - ___	REVISED - ___
PLOT DATE = ___	CHECKED - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING DETAILS

SHEET NO. 6 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
___	ROCK CUT 2018	WINNEBAGO	406	262
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/8/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 41.11" Northing 2,070,366.2105
Longitude -88° 59' 12.22" Easting 2,615,560.4156

BORING NO. B-1b
Station 109+12
Offset 11.50ft Rt CL
Ground Surface Elev. 837.80 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft

Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown LOAM			0.8 P	
836.30				
MEDIUM tan weathered LIMESTONE		3 6 11		10.0
834.30				
MEDIUM tan weathered LIMESTONE	-5-	10 12 14		
831.80				
VERY DENSE tan weathered LIMESTONE Auger Refusal @ 8.5'		100/10"		
829.30				
End of Boring				

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 109+12 (Borings) = Sta. 917+66.38 (℄ Bike Path)
12.8' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/8/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 43.09" Northing 2,070,565.8879
Longitude -88° 59' 12.94" Easting 2,615,503.2976

BORING NO. B-2b
Station 108+25
Offset 12.00ft Rt CL
Ground Surface Elev. 836.70 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft

Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
MEDIUM brown SILTY CLAY LOAM			0.5 P	11.0
834.70				
VERY STIFF tan SILTY CLAY LOAM		3 4 8	2.5 B	8.0
833.20				
VERY STIFF tan/gray SILTY LOAM	-5-	7 9 8	2.8 S	9.0
830.70				
STIFF gray SANDY LOAM TILL		7 6 9	1.9 B	11.0
828.20				
VERY STIFF tan SANDY LOAM TILL	-10-	8 11 13	3.3 S	7.0
825.70				
SOFT tan SANDY LOAM TILL		4 5 6	0.4 P	11.0
823.20				
No Recovery	-15-	13 14 11		
820.70				
STIFF tan SANDY LOAM TILL		4 4 6	1.4 P	10.0
818.20				
STIFF tan SANDY LOAM TILL	-20-	5		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF tan SANDY LOAM TILL *(continued)*		4 6	1.0 P	12.0
815.20				
DENSE tan weathered LIMESTONE		1 17 21		
813.20				
VERY DENSE tan weathered LIMESTONE	-25-	12 24 26		
810.70				
VERY DENSE tan weathered LIMESTONE Auger Refusal @ 27.5'	809.20	100/3"		
End of Boring				

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 108+25 (Borings) = Sta. 918+53.38 (℄ Bike Path)
12.4' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/12/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 44.73" Northing 2,070,730.0524
Longitude -88° 59' 14.18" Easting 2,615,408.5488

BORING NO. B-3b
Station 107+50
Offset 12.00ft Rt CL
Ground Surface Elev. 836.40 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft

Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DRY brown LOAM				4.0
834.40				
VERY STIFF brown SILTY CLAY LOAM		5 6 7	3.9 P	9.0
832.90				
STIFF tan SANDY LOAM	-5-	5 6 11	1.9 S	14.0
830.40				
DENSE tan SANDY LOAM TILL		17 24 23		10.0
827.90				
VERY STIFF tan SANDY LOAM TILL	-10-	12 14 21	2.5 P	9.0
825.40				
VERY STIFF tan SANDY LOAM TILL		7 9 11	2.5 S	8.0
822.90				
MEDIUM tan SANDY LOAM TILL	-15-	3 5 8	0.6 P	10.0
820.40				
VERY STIFF tan SANDY LOAM TILL		8 11 14	2.3 S	8.0
817.90				
	-20-	20		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
STIFF light gray SANDY LOAM TILL *(continued)*		7 8	1.4 B	12.0
815.40				
STIFF tan SANDY LOAM TILL		9 8 13	1.6 P	12.0
812.90				
VERY STIFF light gray SANDY LOAM TILL	-25-	6 9 15	2.3 P	11.0
810.40				
VERY STIFF tan SANDY LOAM TILL		6 7 8	2.0 B	11.0
807.90				
No Recovery MEDIUM tan SANDY LOAM TILL	-30-	7 7 11		
805.40				
End of Boring				

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 107+50 (Borings) = Sta. 919+28.38 (℄ Bike Path)
12.5' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/12/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 21' 51.19" Northing 2,077,457.9946
Longitude -88° 59' 14.18" Easting 2,615,315.2313

BORING NO. B-4b
Station 106+75
Offset 11.00ft Rt CL
Ground Surface Elev. 836.10 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft
Groundwater Elev.:
First Encounter None ft
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DRY brown SILTY CLAY LOAM				7.0
	834.10			
VERY STIFF tan SANDY LOAM		6 7 8	2.5 S	8.0
	832.60			
VERY STIFF tan SILTY CLAY LOAM	-5	5 6 8	2.3 P	11.0
	830.10			
STIFF tan SANDY LOAM TILL		42 8 12	1.2 B	9.0
	827.60			
VERY STIFF tan SANDY LOAM TILL	-10	30 11 13	2.8 P	9.0
	825.10			
VERY STIFF tan SANDY LOAM TILL		17 11 14	3.5 S	8.0
	822.60			
SOFT tan SANDY LOAM TILL	-15	2 6 6	0.3 P	11.0
	820.10			
VERY STIFF tan SANDY LOAM TILL		31 25 11	3.0 P	8.0
	817.60			
No Recovery	-20	19		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
No Recovery *(continued)*	815.10	14 18		
STIFF tan SANDY LOAM TILL	812.60	7 13 17	1.8 S	9.0
STIFF tan SANDY LOAM TILL	-25	13 13 14	1.8 P	9.0
	810.10			
	807.60			
VERY STIFF light gray SANDY LOAM TILL	-30	10 19 21	3.3 P	9.0
	805.10			
End of Boring	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 106+75 (Borings) = Sta. 920+03.38 (℄ Bike Path)
13.3' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 5/22/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 48.06" Northing 2,071,066.8086
Longitude -88° 59' 14.85" Easting 2,615,353.5880

BORING NO. B-5b
Station 106+00
Offset 12.00ft Rt CL
Ground Surface Elev. 835.90 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft
Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
DRY brown LOAM				9.0
	833.90			
VERY STIFF tan SANDY LOAM with GRAVEL		4 5 7	2.3 S	8.0
	832.40			
VERY STIFF tan SANDY LOAM with TILL	-5	3 8 9	2.8 P	11.0
	829.90			
VERY STIFF light gray SANDY LOAM with TILL		6 7 8	2.4 P	9.0
	827.40			
STIFF tan LOAM with GRAVEL	-10	5 7 7	1.4 B	12.0
	824.90			
STIFF tan SANDY LOAM TILL		11 11 13	1.7 S	7.0
	822.40			
MEDIUM light gray SANDY LOAM TILL	-15	6 9 14	0.9 B	11.0
	819.90			
HARD tan SANDY LOAM TILL		11 12 12	4.0 P	9.0
	817.40			
HARD tan SANDY LOAM TILL	-20	9		

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
HARD tan SANDY LOAM TILL *(continued)*	814.90	11 17	4.5 P	8.0
SOFT tan SANDY LOAM TILL		4 4 6	0.3 B	12.0
	812.40			
No Recovery	-25	19 20 16		
	809.90			
HARD tan SANDY LOAM TILL		13 13 26	4.4 S	8.0
	807.40			
VERY STIFF tan SANDY LOAM TILL	-30	8 15 12	3.5 P	9.0
	804.90			
End of Boring	-40			

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 106+00 (Borings) = Sta. 920+78.38 (℄ Bike Path)
12.3' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/26/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 49.69" Northing 2,071,230.9682
Longitude -88° 59' 15.38" Easting 2,615,311.0254

BORING NO. B-6b
Station 105+25
Offset 12.00ft Rt CL
Ground Surface Elev. 836.20 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft
Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	1 1/2" Asphalt MEDIUM brown SILTY CLAY LOAM		0.5 P	11.0
834.20				
	MEDIUM brown LOAM	7 10 9	0.8 P	9.0
832.70				
-5	STIFF tan SANDY LOAM TILL	6 8 9	1.9 S	8.0
830.20				
	STIFF/VERY STIFF gray SANDY LOAM TILL	5 7 10	2.0 P	20.0
827.70				
-10	VERY STIFF tan SANDY LOAM TILL	5 7 10	2.5 S	7.0
825.20				
	MEDIUM tan SANDY LOAM TILL	11 4 10	0.6 B	10.0
822.70				
-15	STIFF tan SANDY LOAM TILL	6 8 10	1.8 S	7.0
820.20				
	STIFF tan SANDY LOAM TILL	3 6 10	1.7 B	8.0
817.70				
-20	STIFF tan SANDY LOAM TILL	4		

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	STIFF tan SANDY LOAM TILL *(continued)*	4 7	1.7 B	10.0
815.20				
	VERY STIFF tan SANDY LOAM TILL	2 6 10	2.3 P	6.0
812.70				
-25	MEDIUM/STIFF tan SANDY LOAM TILL	3 4 9	1.0 B	11.0
810.20				
	MEDIUM/STIFF tan/gray SANDY LOAM TILL	2 4 4	1.0 P	21.0
807.70				
-30	STIFF gray LOAM	4 5 10	1.3 S	17.0
805.20	End of Boring			
-40				

Northing and Easting were calculated using the ILHP-WF coordinate system

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 105+25 (Borings) = Sta. 921+53.38 (℄ Bike Path)
10.4' Lt. of ℄ Park Access

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 6/27/17

ROUTE SPR DESCRIPTION C92-007-92 Retaining Wall, Rock Cut Park LOGGED BY W. Garza

SECTION 1992-6 LOCATION Harlem Twp. - SE 27, SEC. , TWP. 45N, RNG. 1 - 2E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME-45

STRUCT. NO.
Station

Latitude 42° 20' 51.37" Northing 2,071,400.2260
Longitude -88° 59' 15.92" Easting 2,615,268.1223

BORING NO B-7b
Station 104+50
Offset 14.00ft Rt CL
Ground Surface Elev. 836.80 ft

Surface Water Elev. 786.10 ft
Stream Bed Elev. 780.20 ft
Groundwater Elev.:
First Encounter None ft
Upon Completion Dry ft
After ____ Hrs. ____ ft

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	SOFT brown LOAM		0.3 P	11.0
834.80				
	HARD tan SANDY LOAM with GRAVEL	9 10 9	4.1 P	10.0
833.30				
-5	VERY STIFF tan SANDY LOAM TILL	5 11 9	3.0 P	8.0
830.80				
	VERY STIFF tan SANDY LOAM TILL	12 11 13	3.9 P	8.0
828.30				
-10	STIFF tan CLAY LOAM TILL	4 6 12	1.7 B	17.0
825.80				
	VERY STIFF tan SANDY LOAM TILL	7 9 10	3.3 S	8.0
823.30				
-15	STIFF dark gray LOAM	7 8 8	1.5 B	18.0
820.80				
	MEDIUM/STIFF tan SANDY LOAM TILL	7 7 6	1.0 P	9.0
818.30				
-20	MEDIUM tan SANDY LOAM TILL	1		

DEPTH (ft)		BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	MEDIUM tan SANDY LOAM TILL *(continued)*	2 4	0.8 P	10.0
815.80				
	MEDIUM tan SANDY LOAM TILL	0 2 5	0.7 B	13.0
813.30				
-25	MEDIUM tan SANDY LOAM TILL with LIMESTONE bottom 6"	1 6 27	0.8 P	10.0
810.30				
	VERY DENSE tan weathered LIMESTONE	100/1.5"		
808.30	End of Boring			
-40				

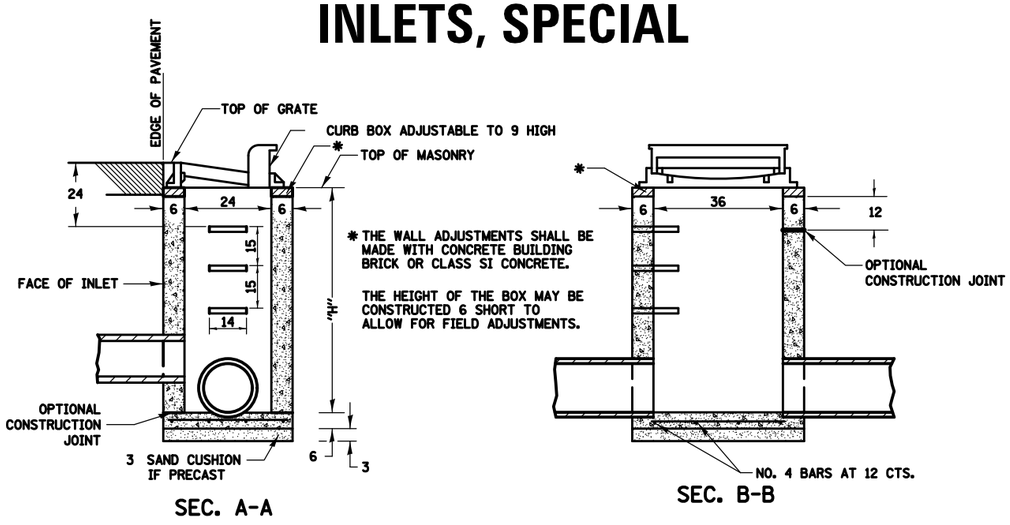
Northing and Easting were calculated using the ILHP-WF coordinate system

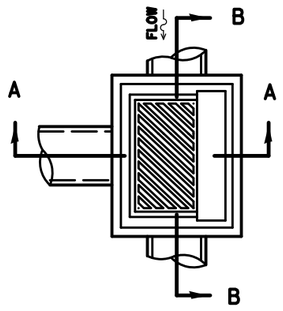
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Sta. 104+50 (Borings) = Sta. 922+28.38 (℄ Bike Path)
7.6' Lt. of ℄ Park Access

INLETS, SPECIAL



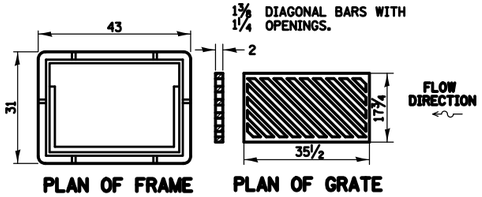


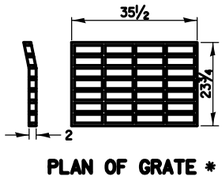
DETAIL OF FRAME & GRATE

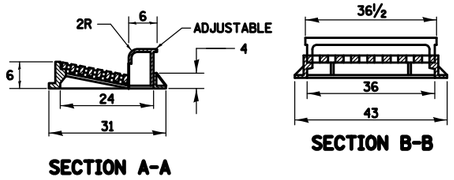
NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.







* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

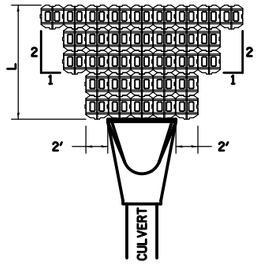
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 ft.

REVISED - 6-27-14
10-13-11

INLETS, SPECIAL 10.2

CONCRETE REVETMENT MAT AT END SECTIONS

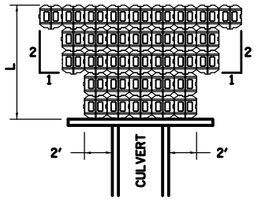


FLARED END SECTION

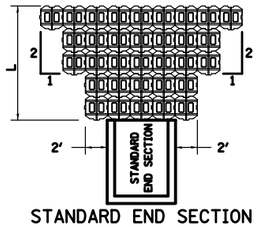
THE LENGTH OF BLOCK MAT (L) IS TO BE THREE (3) TIMES THE 10 YEAR CULVERT OUTLET VELOCITY, FROM THE WATERWAY INFORMATION TABLE (WIT).

IF THE CULVERT OUTLETS INTO A DEFINED CHANNEL, INSTALL BLOCK BANK TO BANK FOR LENGTH (L).

STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).

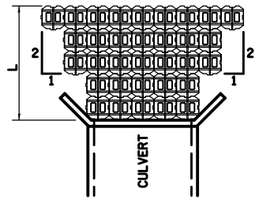


CULVERT WITH HEADWALL



STANDARD END SECTION

Station	Length (feet)	Area (sq yd)
907+50	4	3
910+50	8	8
915+00	4	3
917+20	5	4

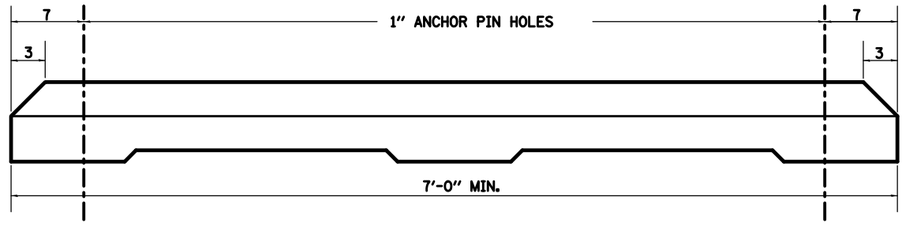


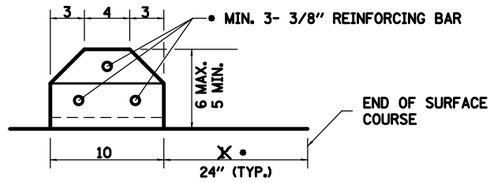
CULVERT WITH WING WALLS

REVISED - 11-12-14

CONCRETE REVETMENT MAT AT END SECTIONS 19.4a

PARKING BLOCKS





• OR AS DIRECTED BY THE ENGINEER.

GENERAL NOTES

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

ANCHOR PINS SHALL BE 3/4 DIAMETER, 36 LONG.

THE COST OF THE MATERIAL, LABOR AND EQUIPMENT NECESSARY TO INSTALL THE PARKING BLOCKS WITH ANCHOR PINS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR PARKING BLOCKS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 10-03-11

PARKING BLOCKS 31.4

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -		REVISED -	
		DRAWN -	D.R.C.	REVISED -	
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED -	R.H.D.	REVISED -	
	PLOT DATE = $DATE$	DATE -	08/31/18	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

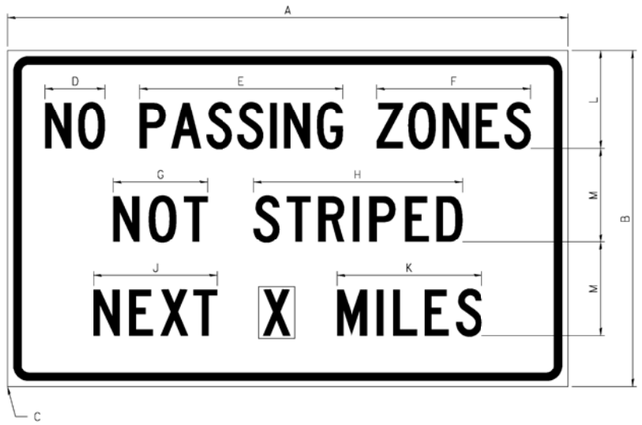
DETAILS – DISTRICT 2 DETAILS (1 OF 12)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	266
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20–I100



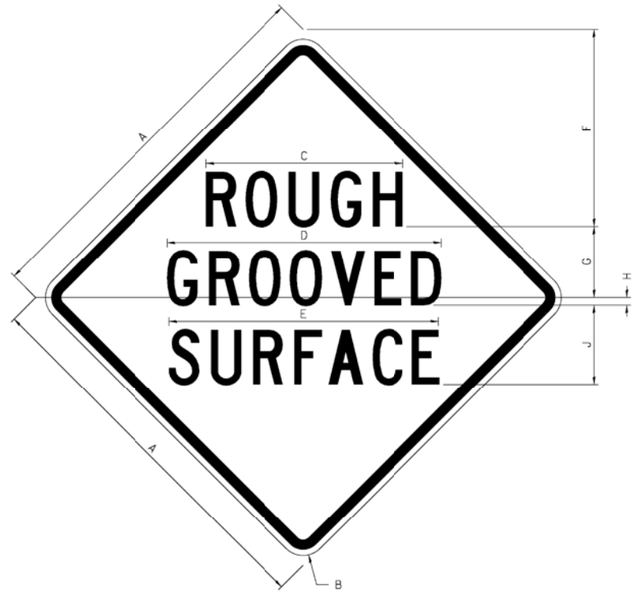
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8–I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

REVISED - 3-02-16

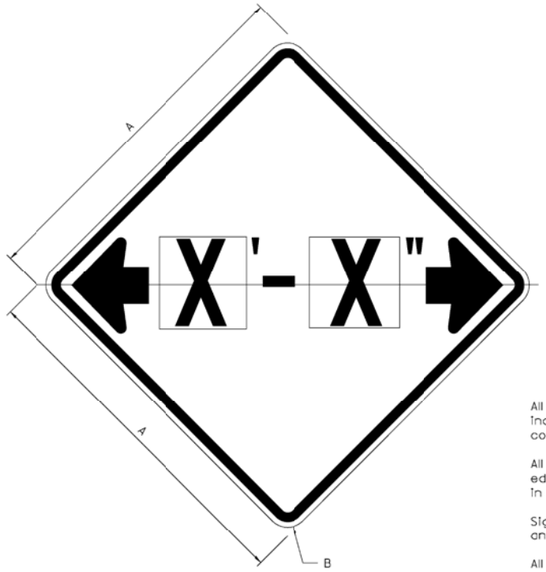
WORK ZONE SIGN DETAILS SHEET 1 OF 4 34.1

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (3 OF 12) ROCK CUT STATE PARK			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILES		DRAWN - D.R.C.	REVISED -						ROCK CUT 2018	WINNEBAGO	406	267
	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -							CONTRACT NO. 46903		
MODELNAME	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -		SCALE:	SHEET ** OF SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12–I102

(1)



COLOR — LEGEND AND BORDER: BLACK; BACKGROUND: FL ORANGE; REFLECTORIZED: NON-REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

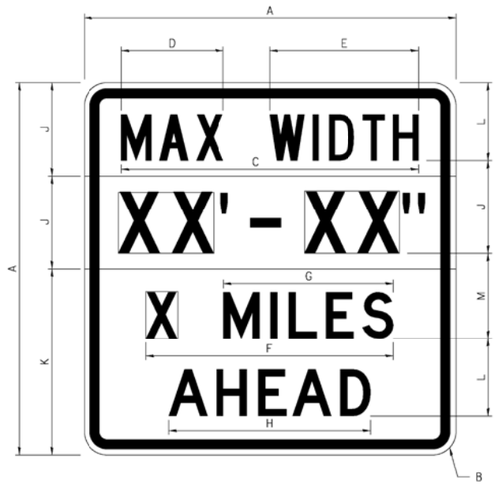
All dimensions are in inches unless otherwise noted.

(1) Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

REVISED - 3-02-16

ILLINOIS STANDARD W12–I103

(1)



COLOR — LEGEND AND BORDER: BLACK; BACKGROUND: WHITE; BACKGROUND (WIDTH): FL ORANGE; REFLECTORIZED: NON-REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

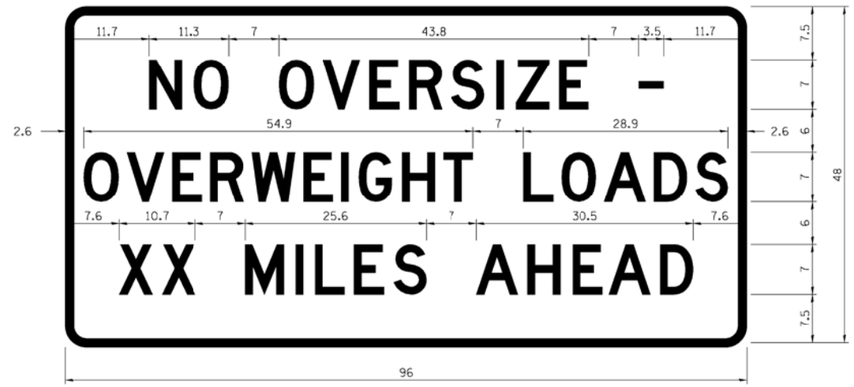
XX'-XX" WIDTH AND X MILES ARE VARIABLE
TOP AND BOTTOM OF BACKGROUND WHITE

WORK ZONE SIGN DETAILS SHEET 2 OF 4 34.1

FILE NAME = $FILES$ / $MODELNAME$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (4 OF 12) ROCK CUT STATE PARK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.R.C.	REVISED -				ROCK CUT 2018	WINNEBAGO	406	268
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -					CONTRACT NO. 46903		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: SHEET ** OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR LEGEND AND BORDER — BLACK — NON-REFLECTORIZED
BACKGROUND — ORANGE — REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
[NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
Table of letter and object lefts.

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS

COLOR LEGEND AND BORDER — BLACK — NON-REFLECTORIZED
BACKGROUND — WHITE — REFLECTORIZED

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

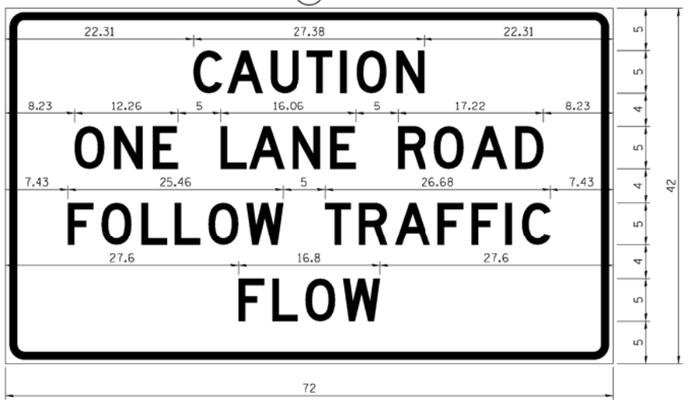
REVISED - 3-02-16

WORK ZONE SIGN DETAILS SHEET 3 OF 4 34.1

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (5 OF 12) ROCK CUT STATE PARK				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.R.C.	REVISED -							ROCK CUT 2018	WINNEBAGO	406	269
$MODELNAME$	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -								CONTRACT NO. 46903		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE:	SHEET ** OF SHEETS	STA.	TO STA.			ILLINOIS FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS (2)



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

(2) This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31

8.23	O 3.51	1.17	N 3.36	1.18	E 3.04

5.00	L 3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05

5.00	R 3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23

7.43	F 3.04	0.94	O 3.52	1.17	L 3.04	0.94	L 3.05	0.94	O 3.51	0.94	W 4.37

5.00	T 3.05	0.94	R 3.36	0.94	A 4.18	0.93	F 3.05	0.94	F 3.04	0.94	I 0.78	1.18	C 3.35	7.43

27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60

Sign not to scale

REVISED - 3-02-16

GENERAL NOTES

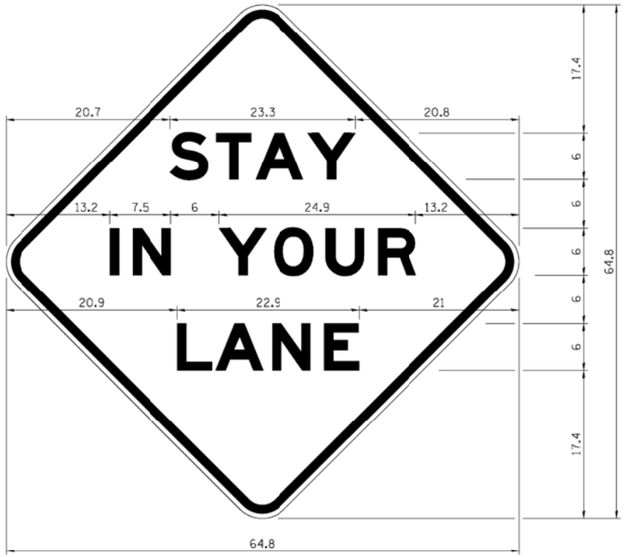
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR	LEGEND AND BORDER	BLACK	NON-REFLECTORIZED
	BACKGROUND	ORANGE	REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S 20.7	T 26.8	A 31.6	Y 38.0

I 13.2	N 15.9	Y 26.7	O 33.9	U 40.5	R 46.8

L 20.9	A 25.8	N 33.1	E 39.4

Sign not to scale

WORK ZONE SIGN DETAILS SHEET 4 OF 4 34.1

FILE NAME = $FILES$ $MODELNAME$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - D.R.C.	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

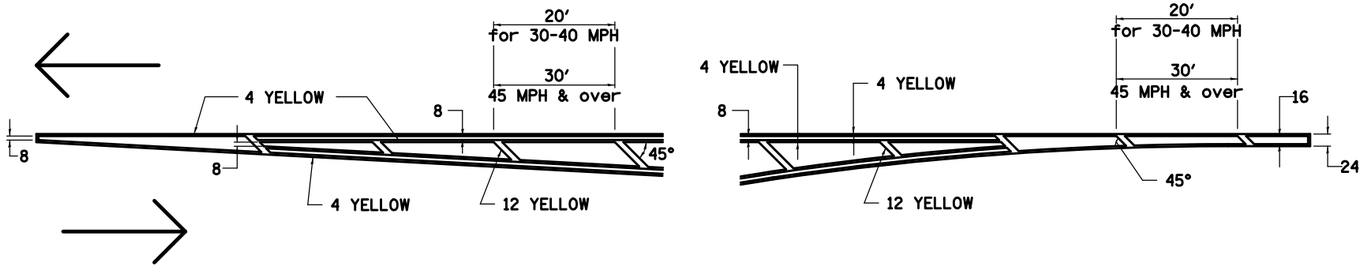
DETAILS – DISTRICT 2 DETAILS (6 OF 12)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

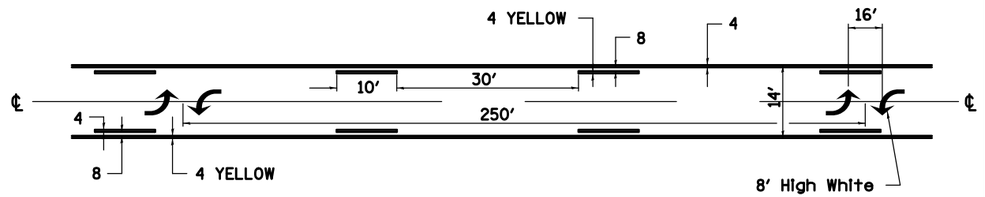
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	270
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

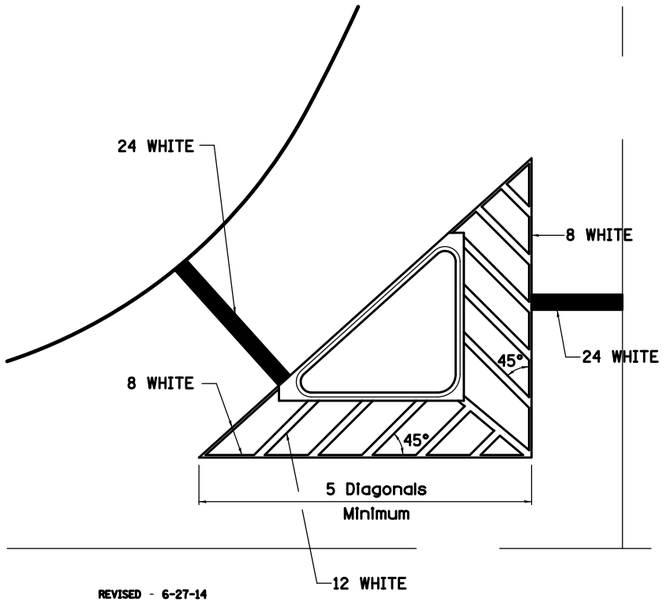


MEDIAN PAVEMENT MARKING



** ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

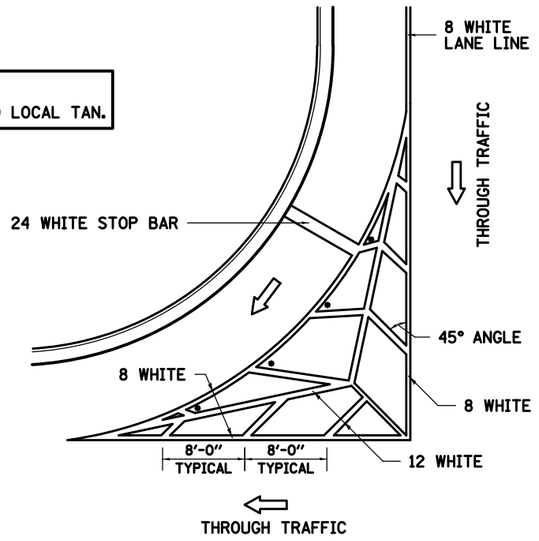
TYPICAL ISLAND OFFSET SHOULDER WIDTH



REVISED - 6-27-14
3-05-12

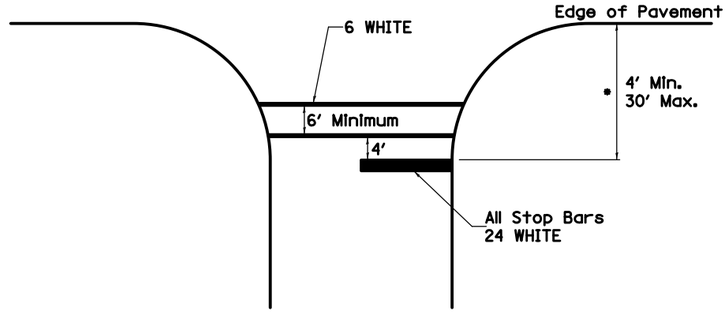
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



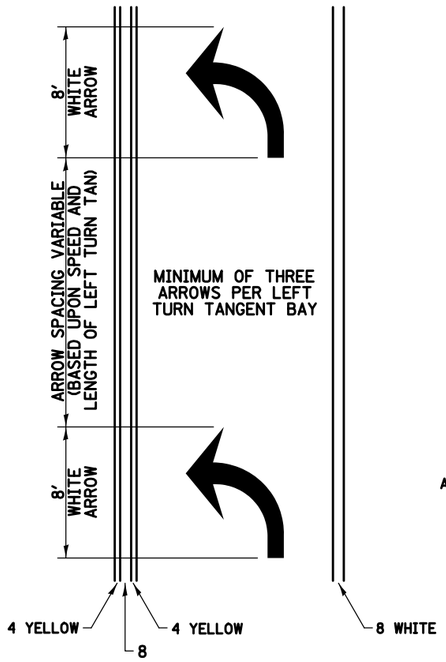
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

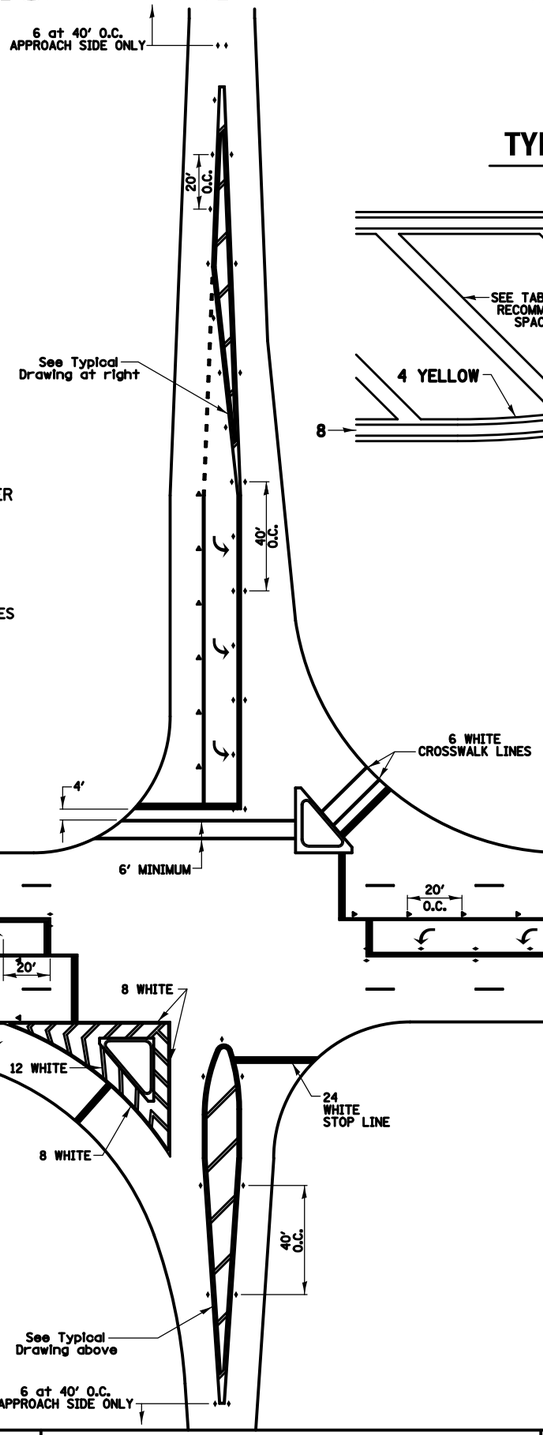
TYPICAL PAVEMENT MARKINGS SHEET 1 OF 3 41.1

FILE NAME = ⊕FILES⊕	USER NAME = ⊕USER⊕	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (7 OF 12) ROCK CUT STATE PARK	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.R.C.	REVISED -				ROCK CUT 2018	WINNEBAGO	406	271
	PLOT SCALE = ⊕SCALE⊕	CHECKED - R.H.D.	REVISED -					CONTRACT NO. 46903		
⊕MODELNAME⊕	PLOT DATE = ⊕DATE⊕	DATE - 08/31/18	REVISED -		SCALE: SHEET ** OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT





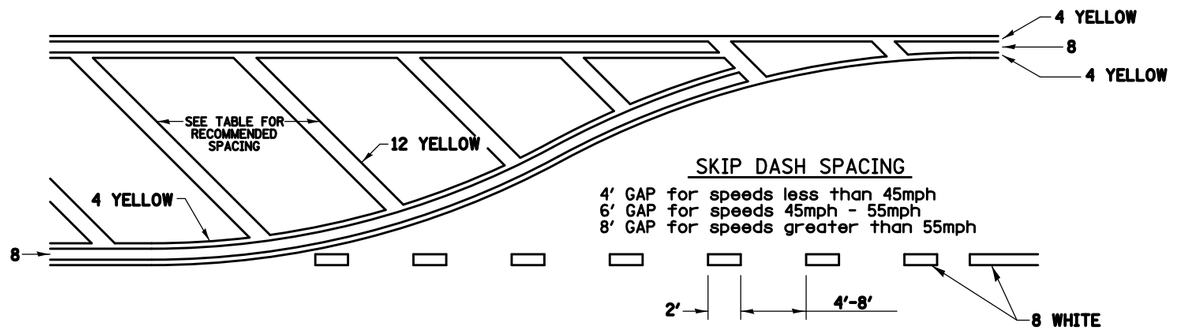
◀ ONE-WAY AMBER MARKER

◁ ONE-WAY CRYSTAL MARKER

◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



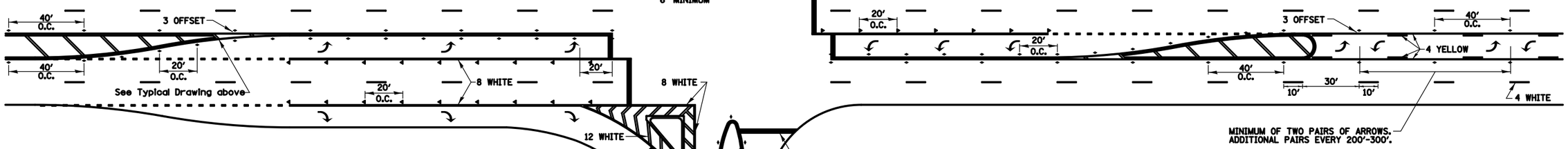
SKIP DASH SPACING

4' GAP for speeds less than 45mph
6' GAP for speeds 45mph - 55mph
8' GAP for speeds greater than 55mph

RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



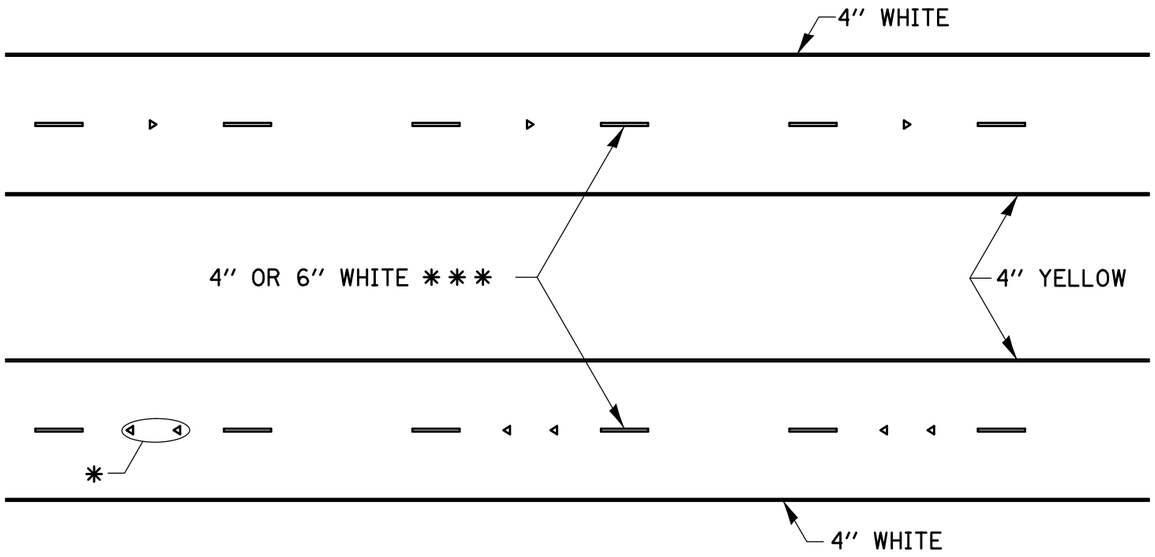
REVISED - 6-27-14
3-05-12

TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

FILE NAME = $FILES$ $MODELNAME$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (8 OF 12) ROCK CUT STATE PARK
		DRAWN - D.R.C.	REVISED -		
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -		
	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: SHEET ** OF SHEETS STA. TO STA.

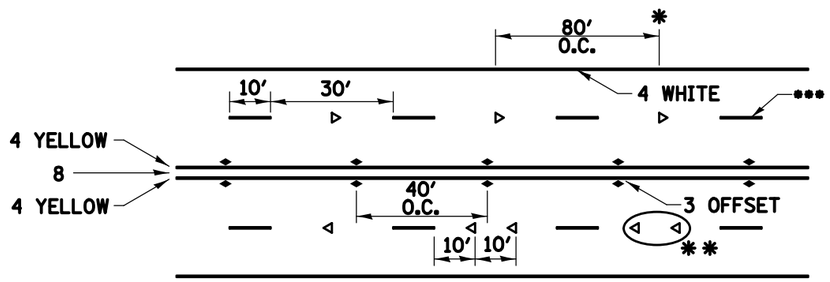
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	272
		CONTRACT NO. 46903		
		ILLINOIS FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
  USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI–LANE / DIVIDED



SYMBOLS

* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

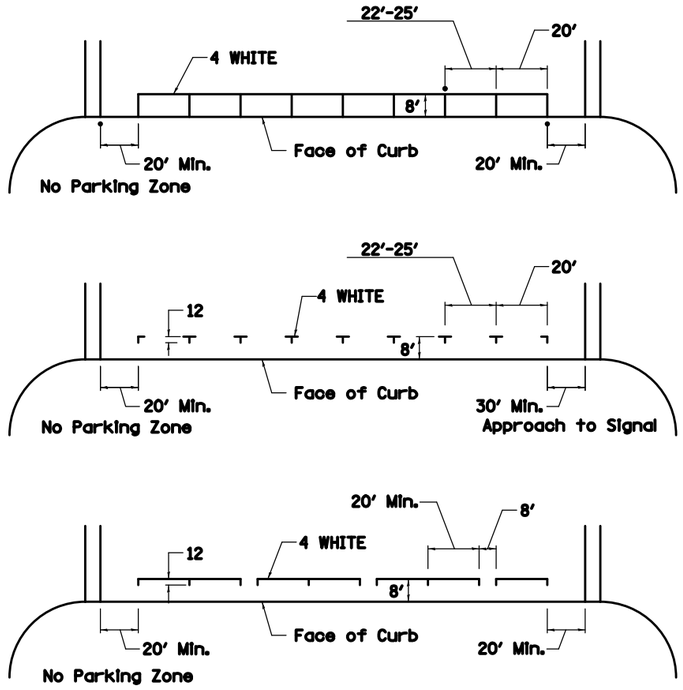
*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4'' LINE. SPEED LIMIT 40 MPH AND OVER USE 6'' LINE.

MULTI–LANE / UNDIVIDED & ONE WAY

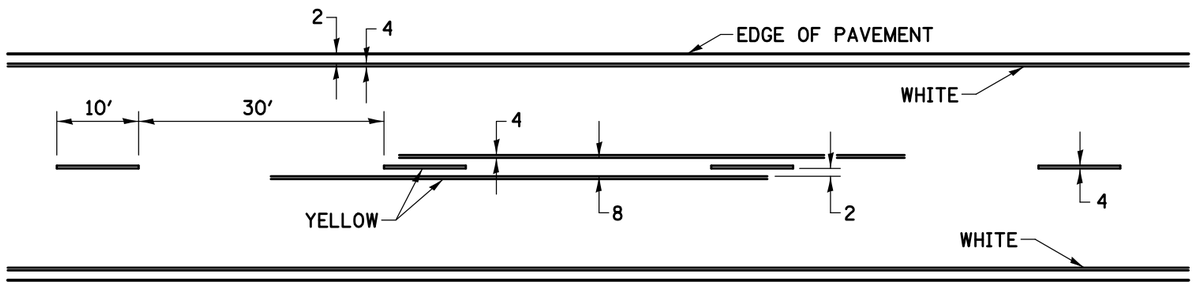
(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

REVISED - 6-27-14
8-27-13
11-28-12

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



TYPICAL PAVEMENT MARKINGS SHEET 3 OF 3 41.1

FILE NAME = *FILES*	USER NAME = *USER*	DESIGNED -	REVISED -
		DRAWN - D.R.C.	REVISED -
MODELNAME	PLOT SCALE = *SCALE*	CHECKED - R.H.D.	REVISED -
	PLOT DATE = *DATE*	DATE - 08/31/18	REVISED -

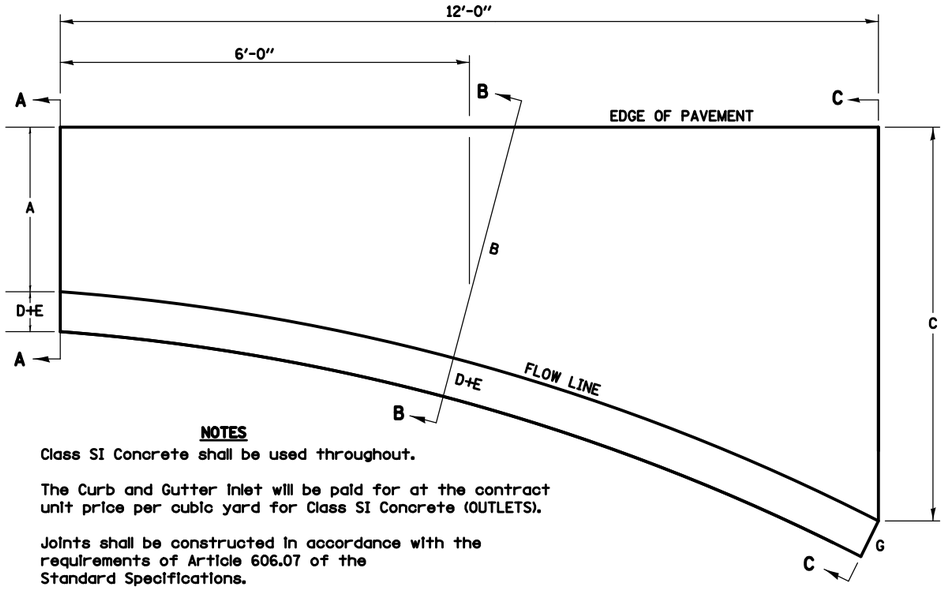
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS – DISTRICT 2 DETAILS (9 OF 12)
ROCK CUT STATE PARK

SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	273
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

STANDARD INLET FOR CURB & GUTTER



NOTES

Class SI Concrete shall be used throughout.

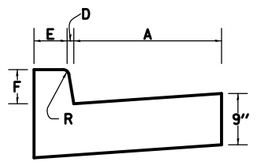
The Curb and Gutter inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.

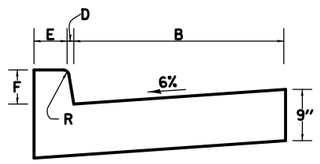
When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise noted.

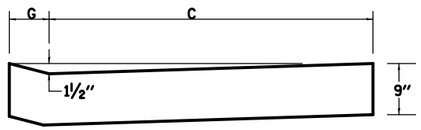
TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS								CONCRETE QUANTITY A-A TO C-C (CU YDS)
	A	B	C	D	E	F	G	R	
B-6.06	6	15	4'	1	6	6	7	1	0.87
B-6.12	12	18.25	4'	1	6	6	7	1	0.95
B-6.18	18	27.25	4' 9"	1	6	6	7	1	1.18
B-6.24	24	32.4	4' 9"	1	6	6	7	1	1.30
M-4.06	6	17.8	3' 9"	4	3	4	7	3	0.75
M-4.12	12	18.25	4'	4	3	4	7	3	0.91
M-4.18	18	27.25	4' 9"	4	3	4	7	3	1.14
M-4.24	24	32.4	4' 9"	4	3	4	7	3	1.25
M-6.06	6	17.8	3' 9"	6	2	6	8	3	0.86
M-6.12	12	18.25	4'	6	2	6	8	2	0.96
M-6.18	18	27.25	4' 9"	6	2	6	8	2	1.20
M-6.24	24	32.4	4' 9"	6	2	6	8	2	1.30



SECTION A-A



SECTION B-B

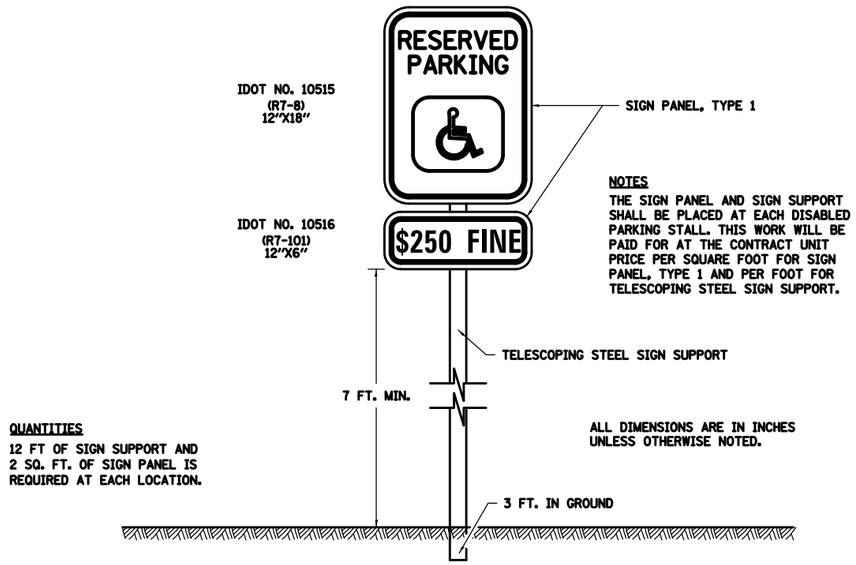


SECTION C-C

REVISED - 11-12-14
REVISED - 8-27-13
10-10-06

STANDARD INLET FOR CURB & GUTTER 21.2

RESERVED PARKING SIGN DETAIL



NOTES

THE SIGN PANEL AND SIGN SUPPORT SHALL BE PLACED AT EACH DISABLED PARKING STALL. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR SIGN PANEL, TYPE 1 AND PER FOOT FOR TELESCOPING STEEL SIGN SUPPORT.

QUANTITIES

12 FT OF SIGN SUPPORT AND 2 SQ. FT. OF SIGN PANEL IS REQUIRED AT EACH LOCATION.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

SEE PARKING STRIPING DETAILS - SHEET 00 AND INDIVIDUAL PARKING LOT PLAN SHEETS TO VERIFY DIMENSIONS

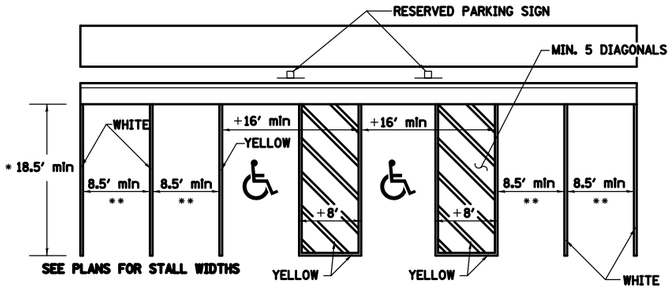
* 20.00' TYPICAL (18.00' FOR THE DAY-USE (EAST) AND THE BAY VIEW PARKING LOTS)

** 9.00' TYPICAL

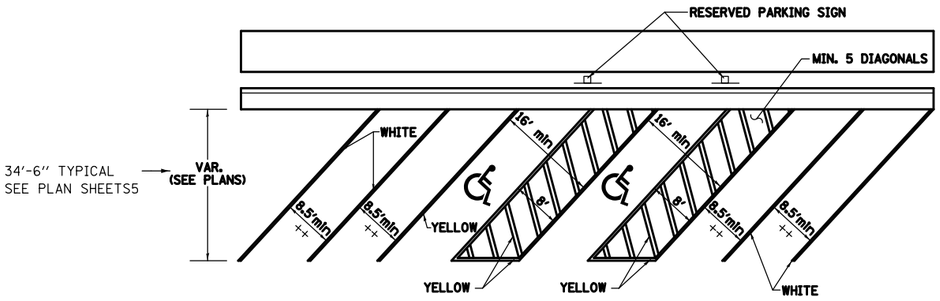
\+ 16.00' TYP. (ADA SPACES) 8' STALLS w/ 8' ISLES & 11' STALLS w/ 5' ISLES

++ 11.00' TYPICAL

DISABLED PARKING STRIPING



PARKING ANGLE = 90°



LESS THAN 90° PARKING ANGLE

REVISED - 6-27-14
10-14-11

RESERVED PARKING SIGN DETAIL 44.2

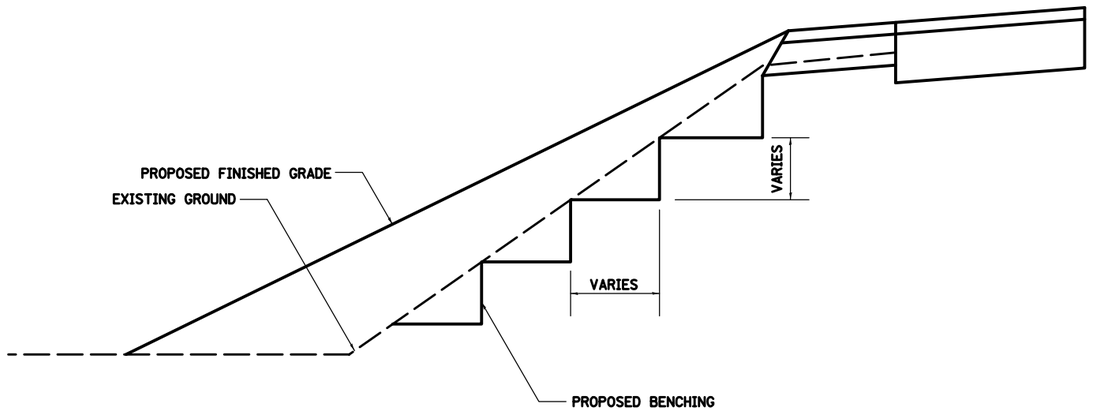
FILE NAME = ⊕FILES⊕	USER NAME = ⊕USER⊕	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - D.R.C.	REVISED -	
⊕MODELNAME⊕	PLOT SCALE = ⊕SCALE⊕	CHECKED - R.H.D.	REVISED -	
	PLOT DATE = ⊕DATE⊕	DATE - 08/31/18	REVISED -	

DETAILS – DISTRICT 2 DETAILS (2 OF 12)
ROCK CUT STATE PARK

SCALE: | SHEET ⊕⊕ OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	274
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

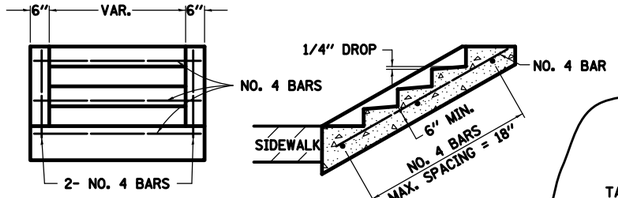
TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

DETAIL OF CONCRETE STEPS



* TABLE OF TREADS & RISERS

SLOPE	TREAD	RISER
1:2	12"	6"
1:3	15"	5"
1:4	17"	4 1/4"

WHERE SLOPES FALL BETWEEN THOSE SHOWN IN THE TABLE ABOVE, THE STAIR RAIL SHOULD FIT THE SLOPE AND THE TREAD IN INCHES x THE RISER IN INCHES SHOULD BE BETWEEN 72 AND 78.

EXAMPLE:

FOR A 1:4 SLOPE USE y = RISER HEIGHT $4y^2 = 75$".
SOLVING $y^2 = \frac{75}{4}$", y= 4.3" (USE 4 1/4" FOR CONVENIENCE.)

TREAD WOULD THEN BE 4 1/4" x 4 = 17"

COST OF REINFORCEMENT BARS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LBS FOR REINFORCEMENT BARS.

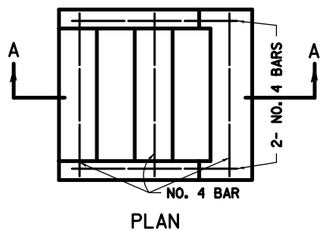
CLASS SI CONCRETE SHALL BE USED THROUGHTOUT, WHICH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE STEPS

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

• BOAT RAMP PARKING LOT STEP DESIGN
(SEE PLAN SHEET - SHEET 00)

SLOPE	TREAD	RISER
1:1.85	12"	6-1/2"

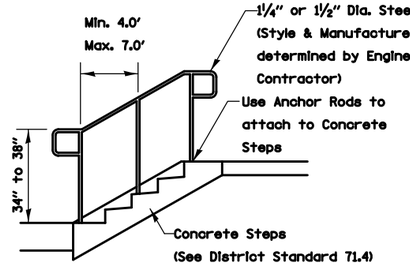
(TREAD x RISER = 78)



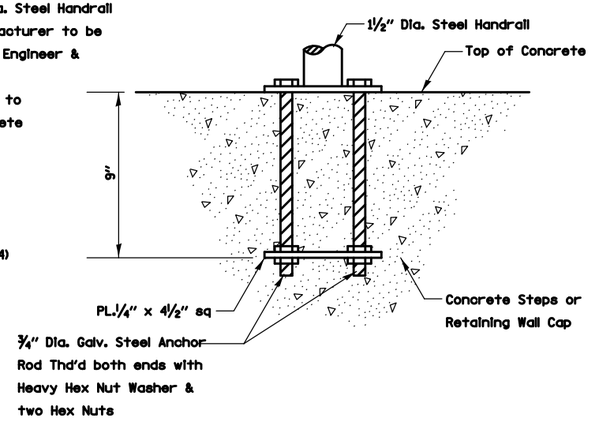
REVISED - 8-27-13
10-03-11

DETAIL OF CONCRETE STEPS 71.4

PIPE HANDRAILS FOR STEPS

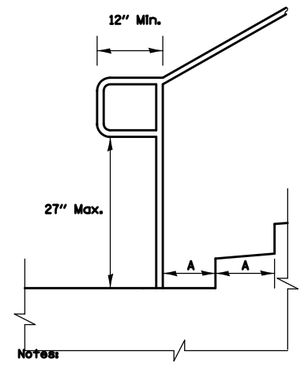


HANDRAIL FOR CONCRETE STEPS



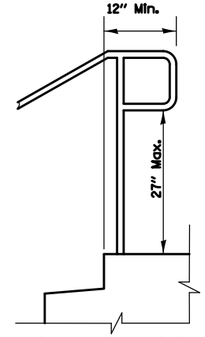
ANCHOR ROD DETAIL

(Included in the cost of Hand or Safety Rail)



Notes:

Extension at Bottom of Run Detail



Extension at Top of Run Detail

Stairways shall have continuous handrails both sides of all stairs.

The inside handrail on switchback or dogleg stairs shall always be continuous.

Gripping surfaces shall be uninterrupted by newel posts, other construction elements, or obstructions.

Ends of handrail shall be either rounded or returned smoothly to floor, wall, or post.

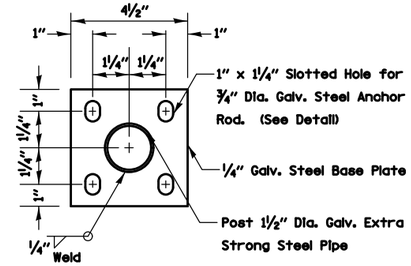
Hand & safety rails shall not rotate within their fittings.

The clear space between hanrails and any wall shall be 1½"

Handrail shall conform to Section 509 with the exception that all pipe and connections shall be welded galvanized or aluminum according to Article 1006.30, or 1006.34.

The diameter of the gripping surface of the handrail shall be 1-1/4" to 1-1/2"

This work shall be paid for at the contract unit price per FOOT for PIPE HANDRAIL.



POST BASE PLATE DETAIL

(Included in the cost of Hand or Safety Rail)

REVISED - 10-14-11

PIPE HANDRAILS FOR STEPS 63.2

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - D.R.C.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
$MODELNAME$	PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

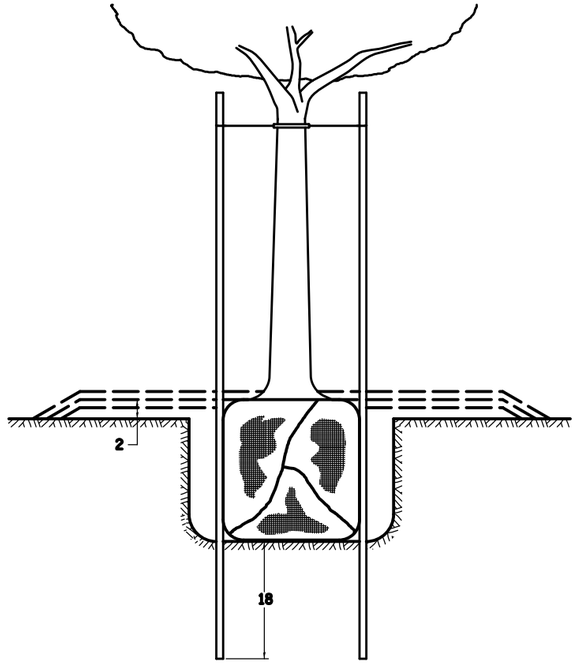
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS – DISTRICT 2 DETAILS (10 OF 12)
ROCK CUT STATE PARK

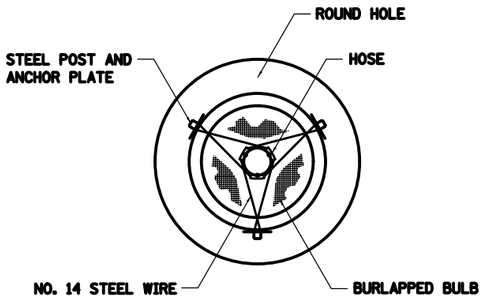
SCALE: | SHEET ** OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	275
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

DETAILS OF PLANTING AND BRACING TREES

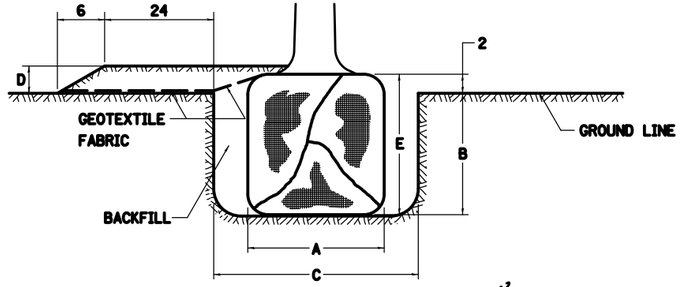


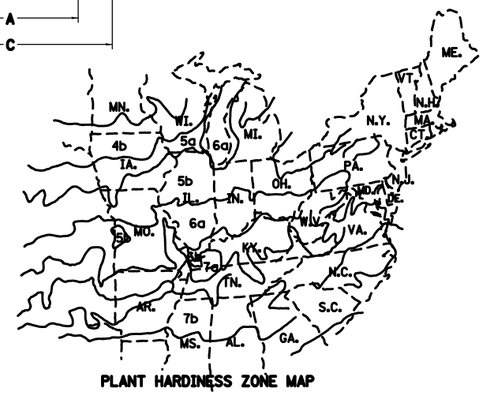
TREES SMALLER THAN 4½ IN DIAMETER



SMALL TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
5'-6'	16	10	30	4	12	0.54
5'-6' BB	16	10	30	4	12	0.54
6'-7' BB	18	12	30	4	14	0.54
7'-8' BB	20	11	30	4	13	0.54
8'-10' BB	24	14	36	4	16	0.61
10'-12' BB	26	15	36	4	17	0.61

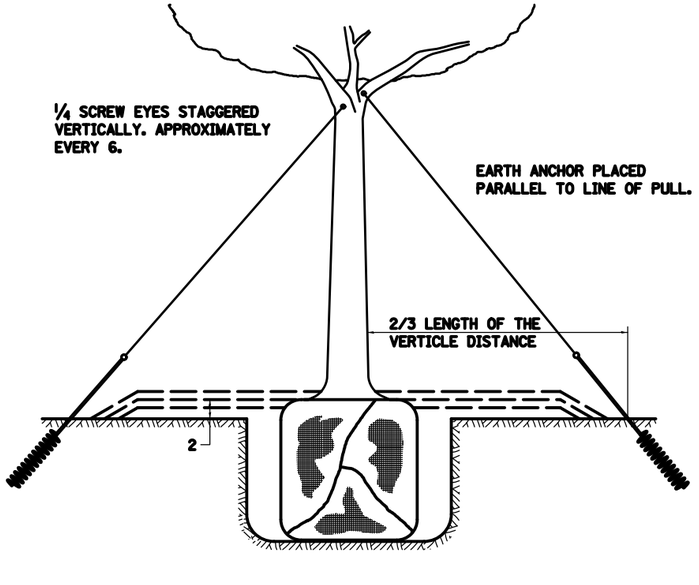
LARGE TREE SIZE	A DIAMETER OF BALL OR ROOT SYS.	B DEPTH OF HOLE EXCAVATION	C WIDTH OF HOLE EXCAVATION	D THICKNESS OF MULCH COVER	E DEPTH OF BALL OR ROOT SYS.	F VOLUME OF MULCH COVER CU. YDS.
0-2	20	11	36	4	13	0.61
2-2½ BB	24	14	48	4	16	0.78
2½-3 BB	28	17	48	4	19	0.78
3-3½ BB	32	17	60	4	19	0.96
3½-4 BB	36	20	60	4	22	0.96
4-4½ BB	40	22	72	4	24	1.16
4½-5 BB	44	24	72	4	26	1.16
5-5½ BB	48	27	84	4	29	1.38



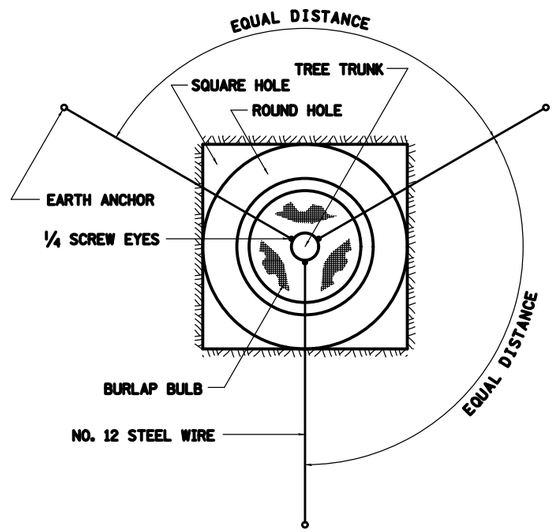


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 4½ IN DIAMETER



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED.

REVISED - 10-18-11

DETAILS OF PLANTING AND BRACING TREES 92.1

FILE NAME = $FILES$	USER NAME = $USER$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS – DISTRICT 2 DETAILS (12 OF 12) ROCK CUT STATE PARK			
		DRAWN - D.R.C.	REVISED -			F.A. RTE.	SECTION	COUNTY / TOTAL SHEETS / SHEET NO.
	PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -				ROCK CUT 2018	WINNEBAGO / 406 / 276
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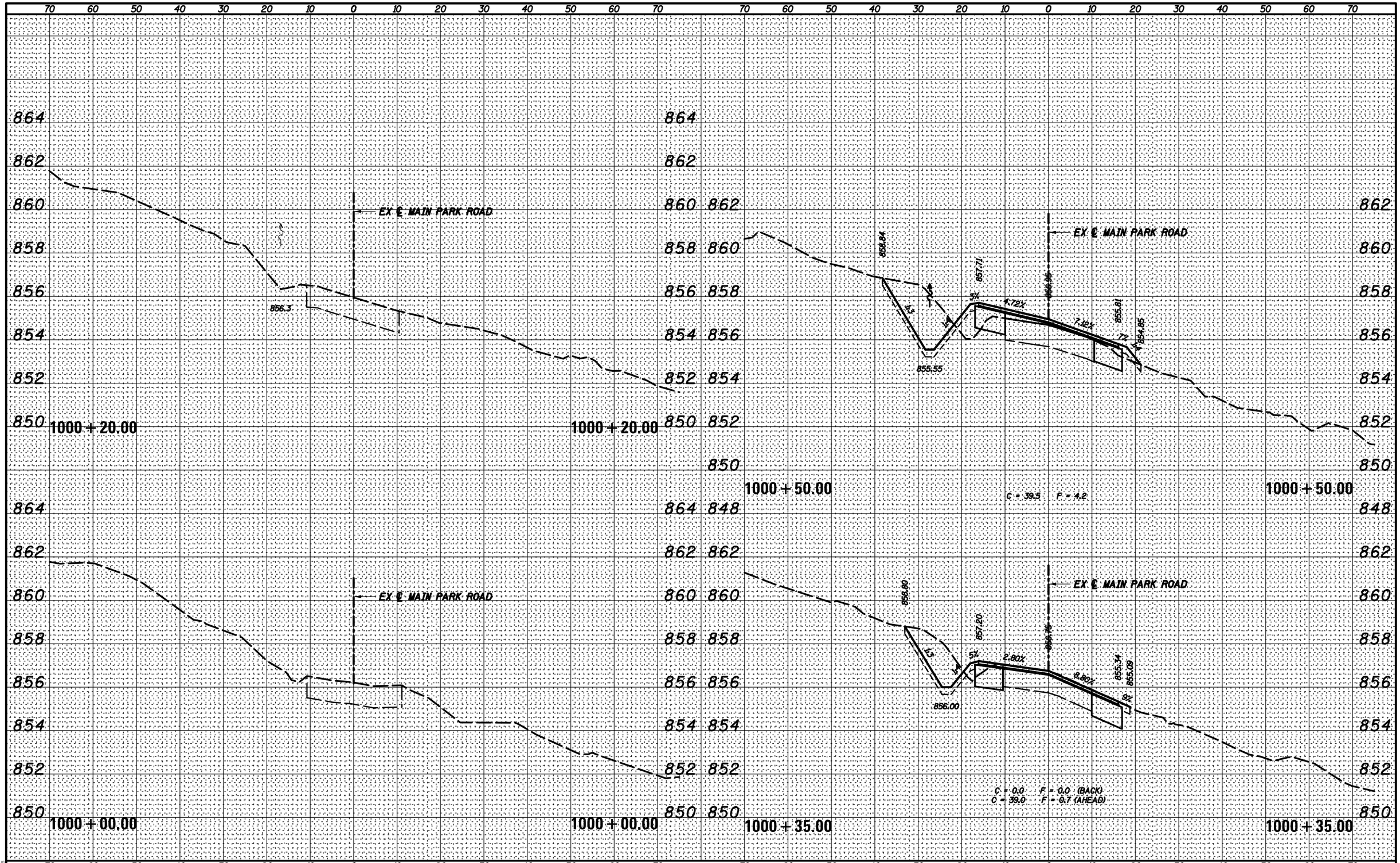
							ILLINOIS FED. AID PROJECT	



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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

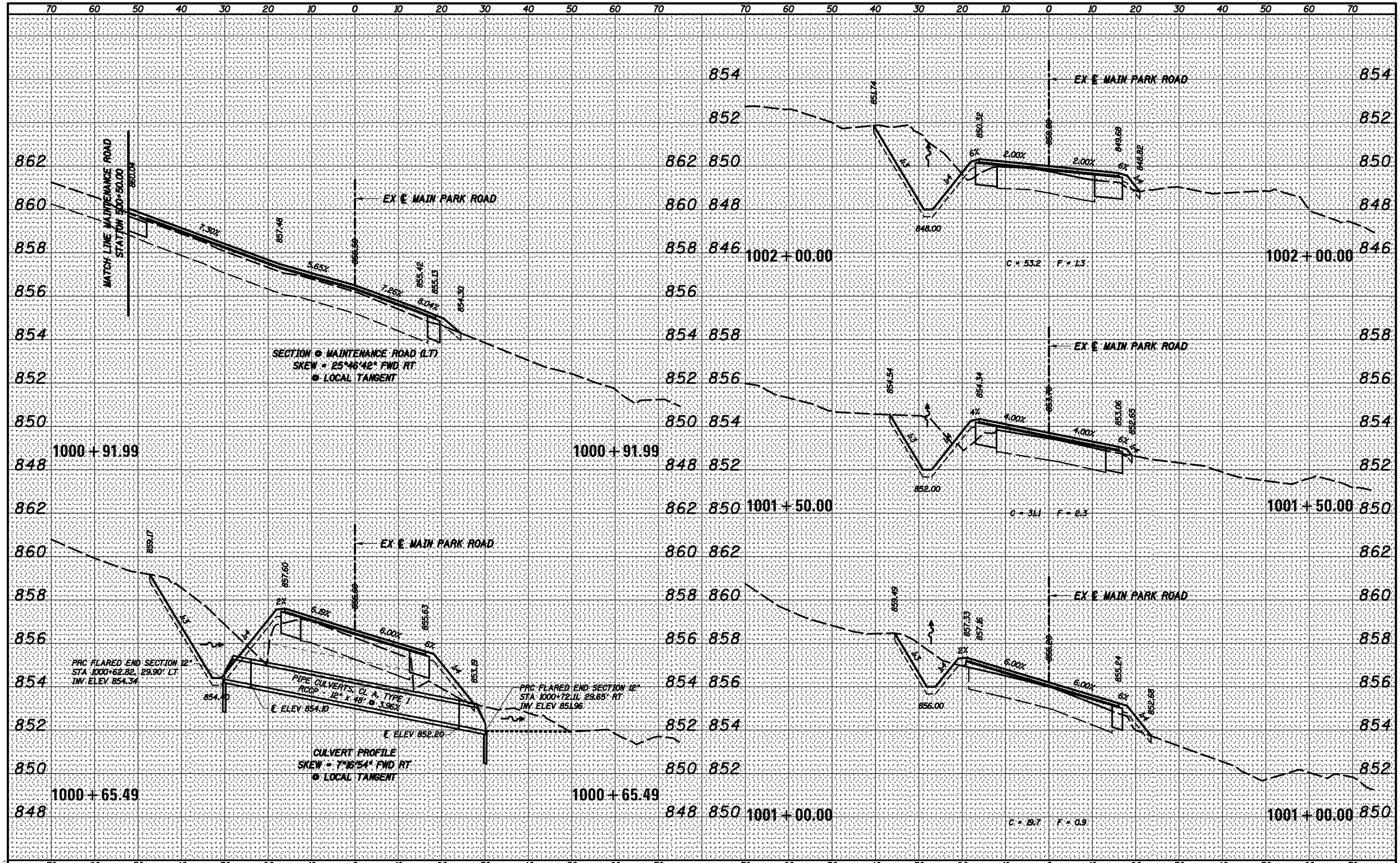
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1000+00.00 | TO STA. 1000+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	277
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

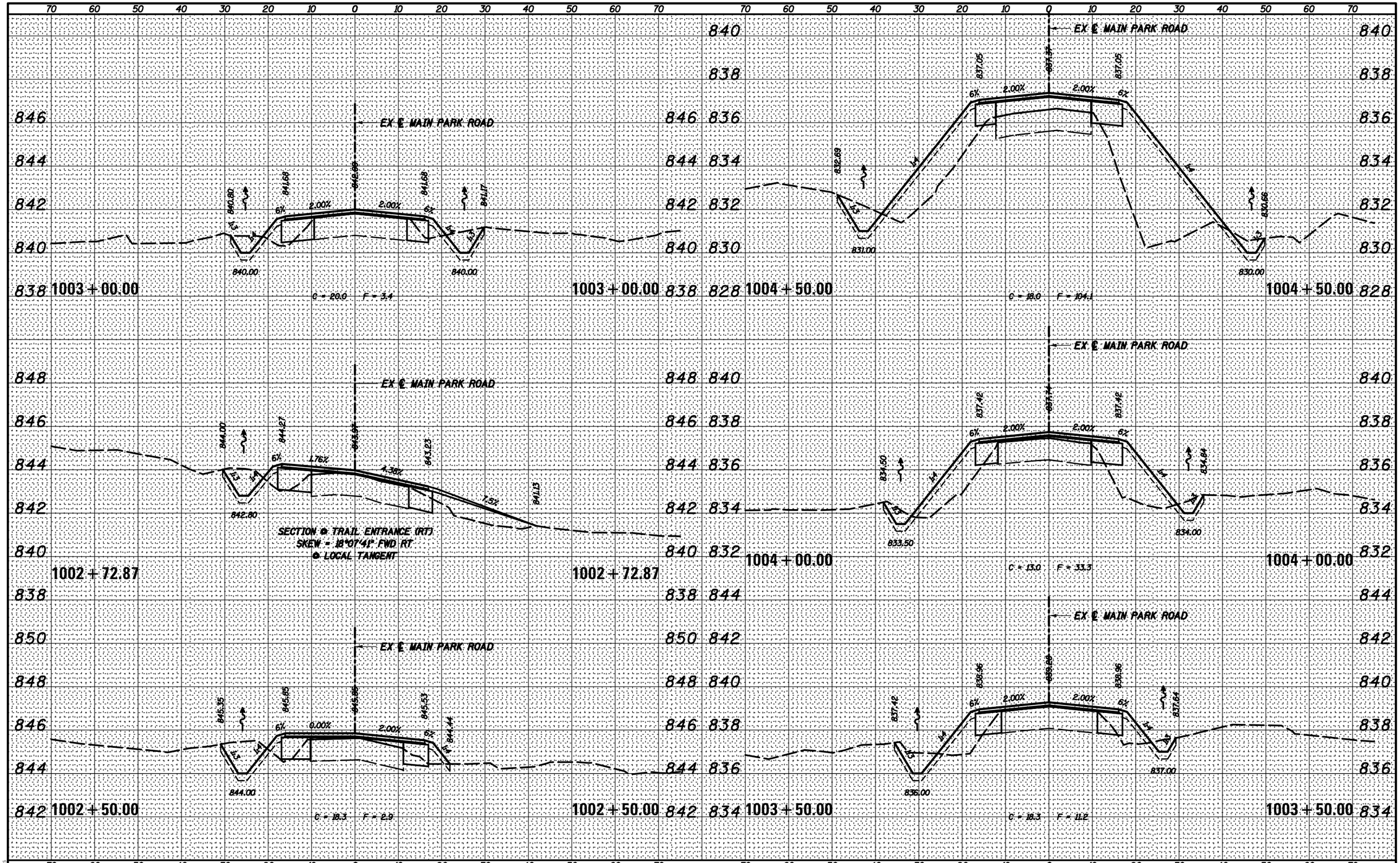
SCALE: | SHEET OF SHEETS | STA. 1000+65.49 | TO STA. 1002+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	278
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

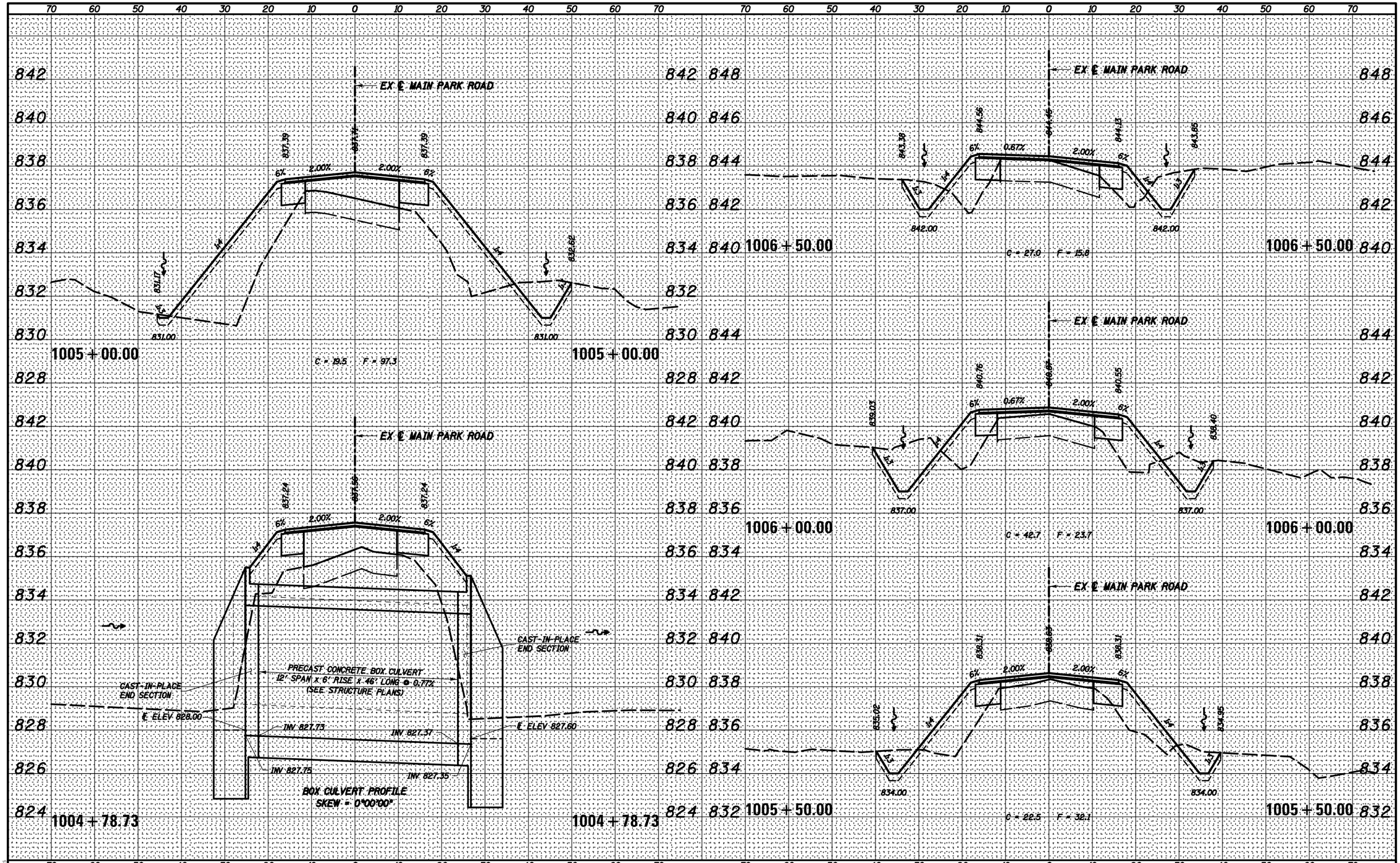
CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1002+50.00 TO STA. 1004+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	279
			CONTRACT NO. 46903	
		ILLINOIS	FED. AID PROJECT	

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1004+78.73 | TO STA. 1006+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	280
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	

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

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

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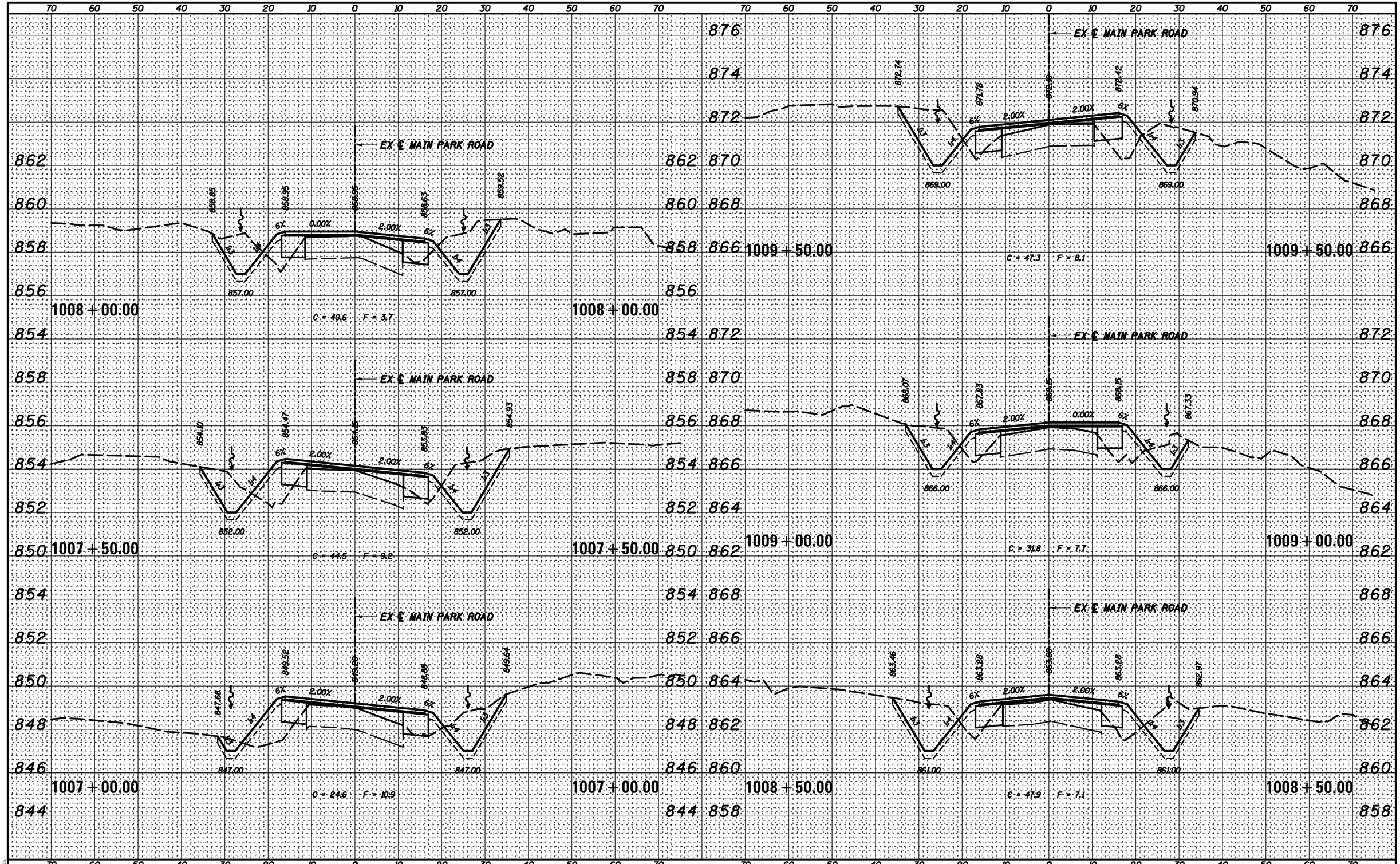

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PLOT SCALE = $SCALES	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATES	DATE - 08/31/18	REVISED -	

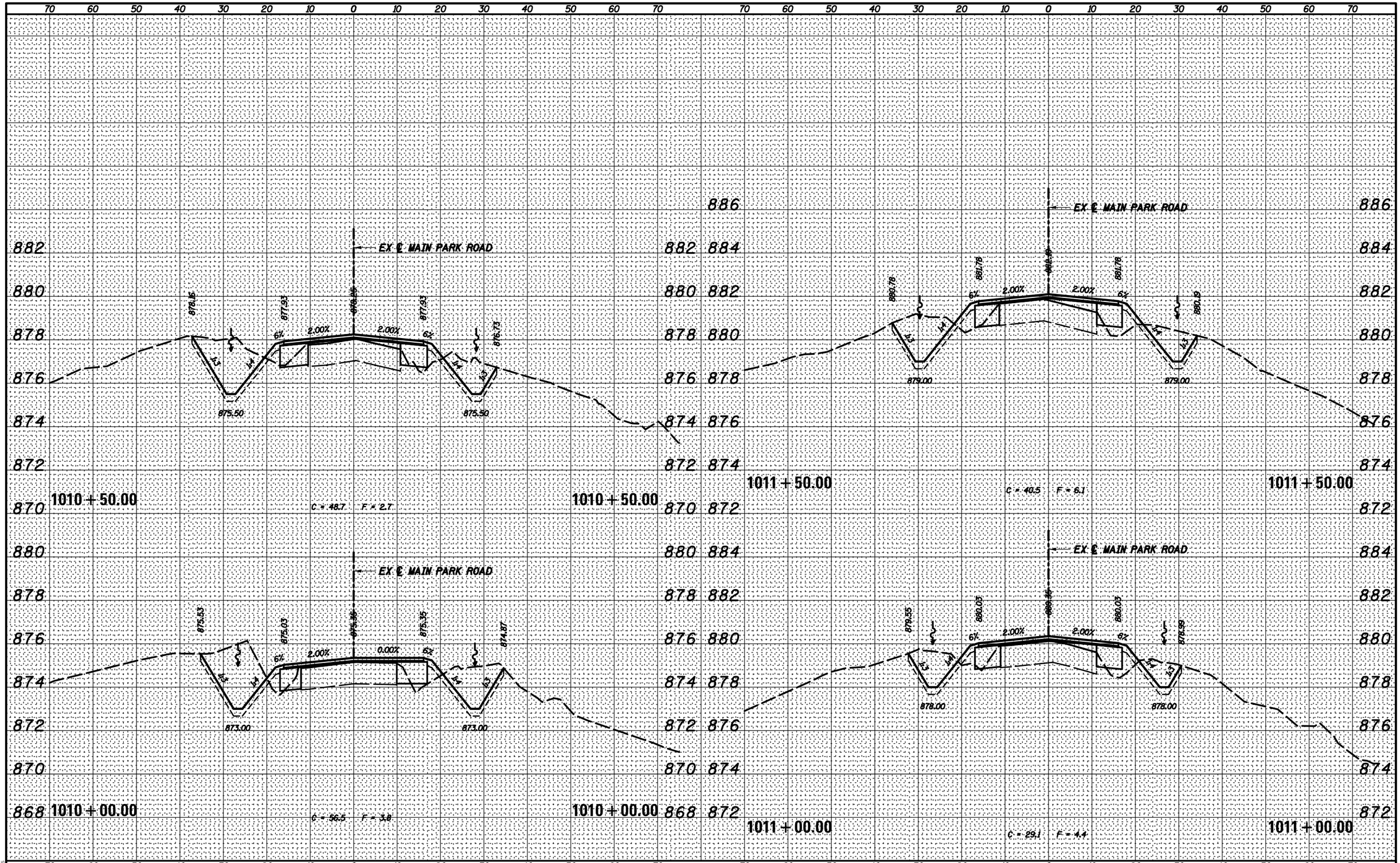
CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1007+00.00 | TO STA. 1009+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	281
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

MODEL: SMODELNAMES
FILE NAME: $FILEL$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

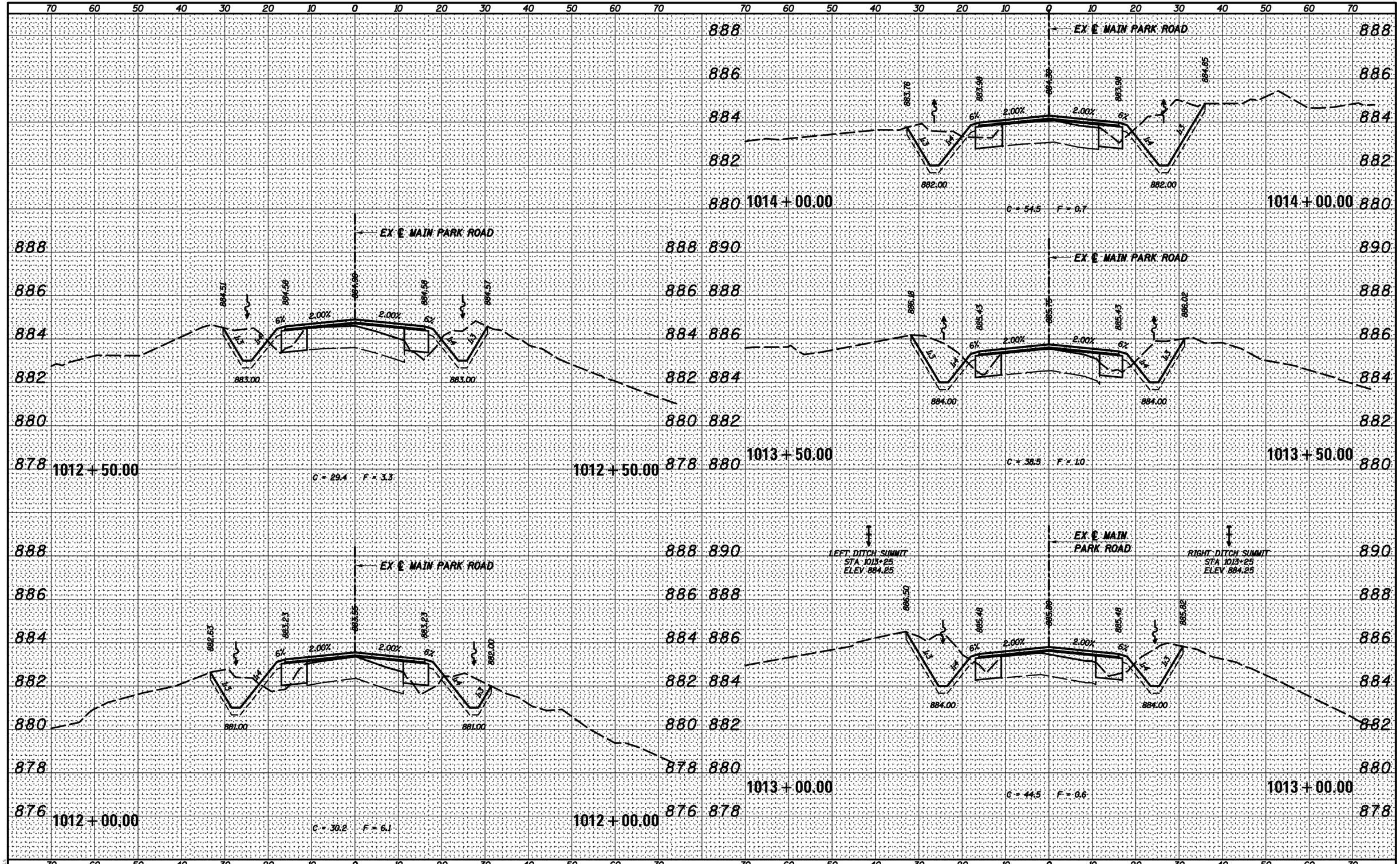
SCALE: | SHEET OF SHEETS | STA. 1010+00.00 | TO STA. 1011+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	282
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USERS	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	CROSS SECTIONS – MAIN PARK ROAD
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	SCALE: SHEET OF SHEETS STA. 1012+00.00 TO STA. 1014+00.00
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	283
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

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

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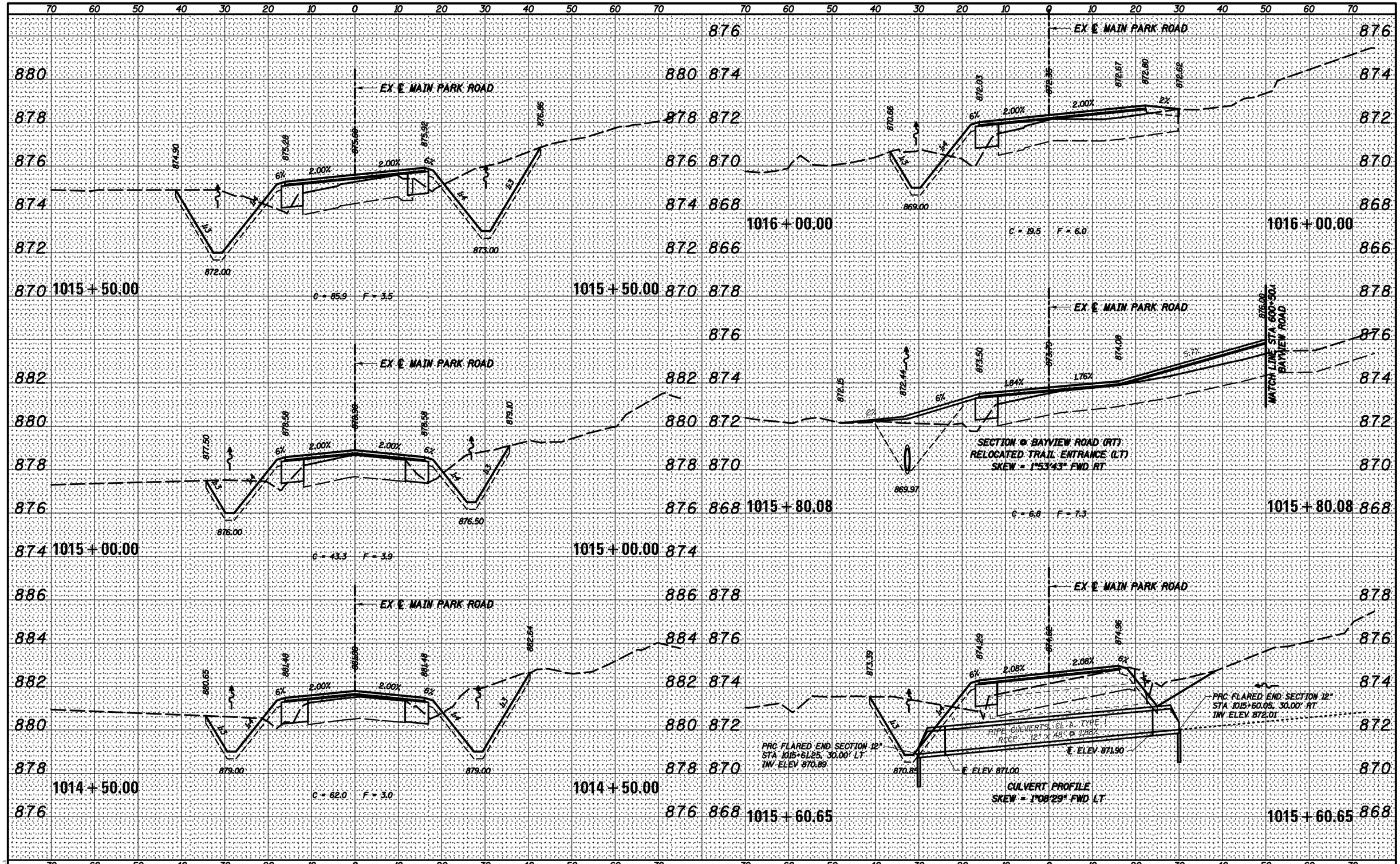


USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

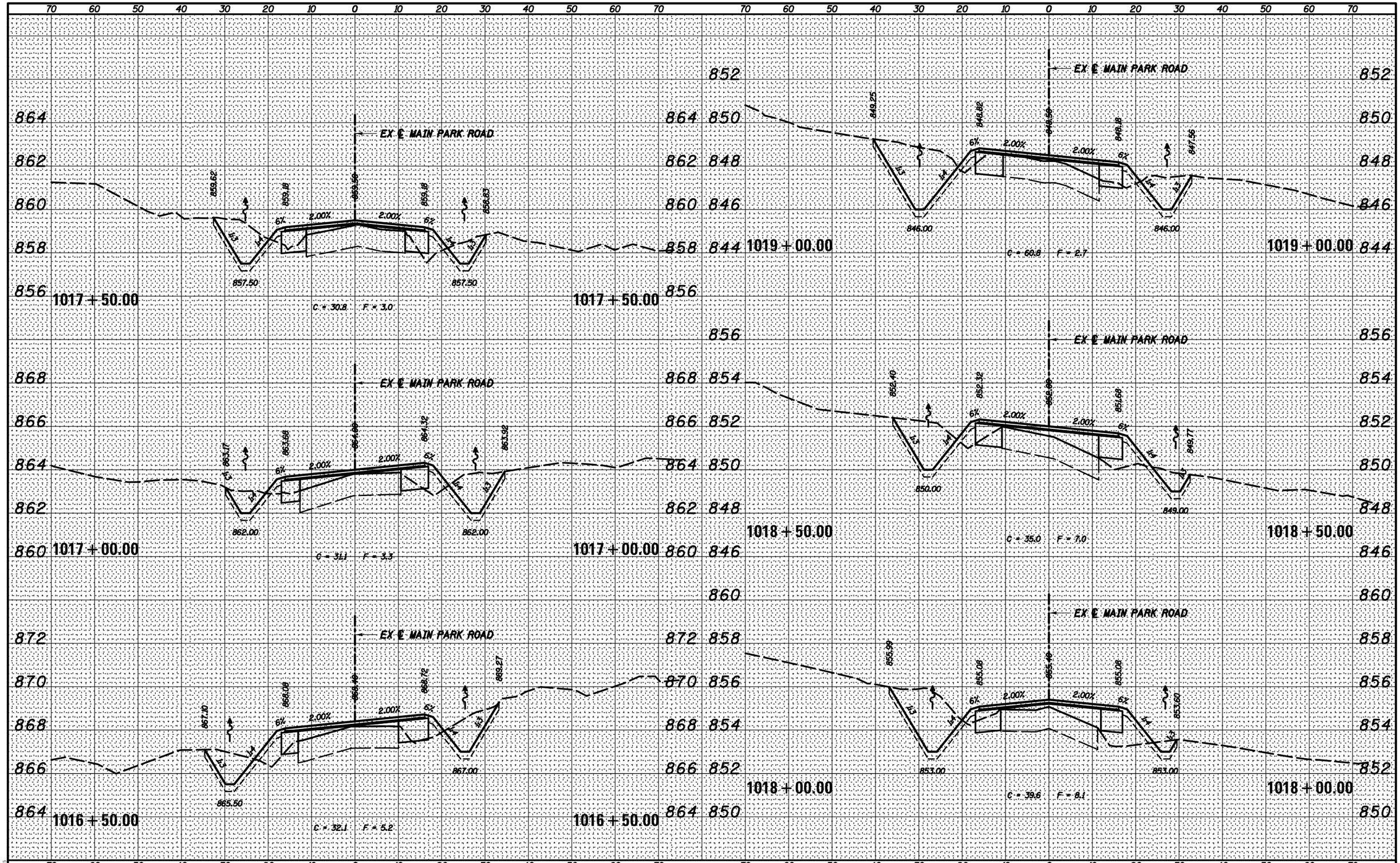
CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1014+50.00 | TO STA. 1016+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	284
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



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

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

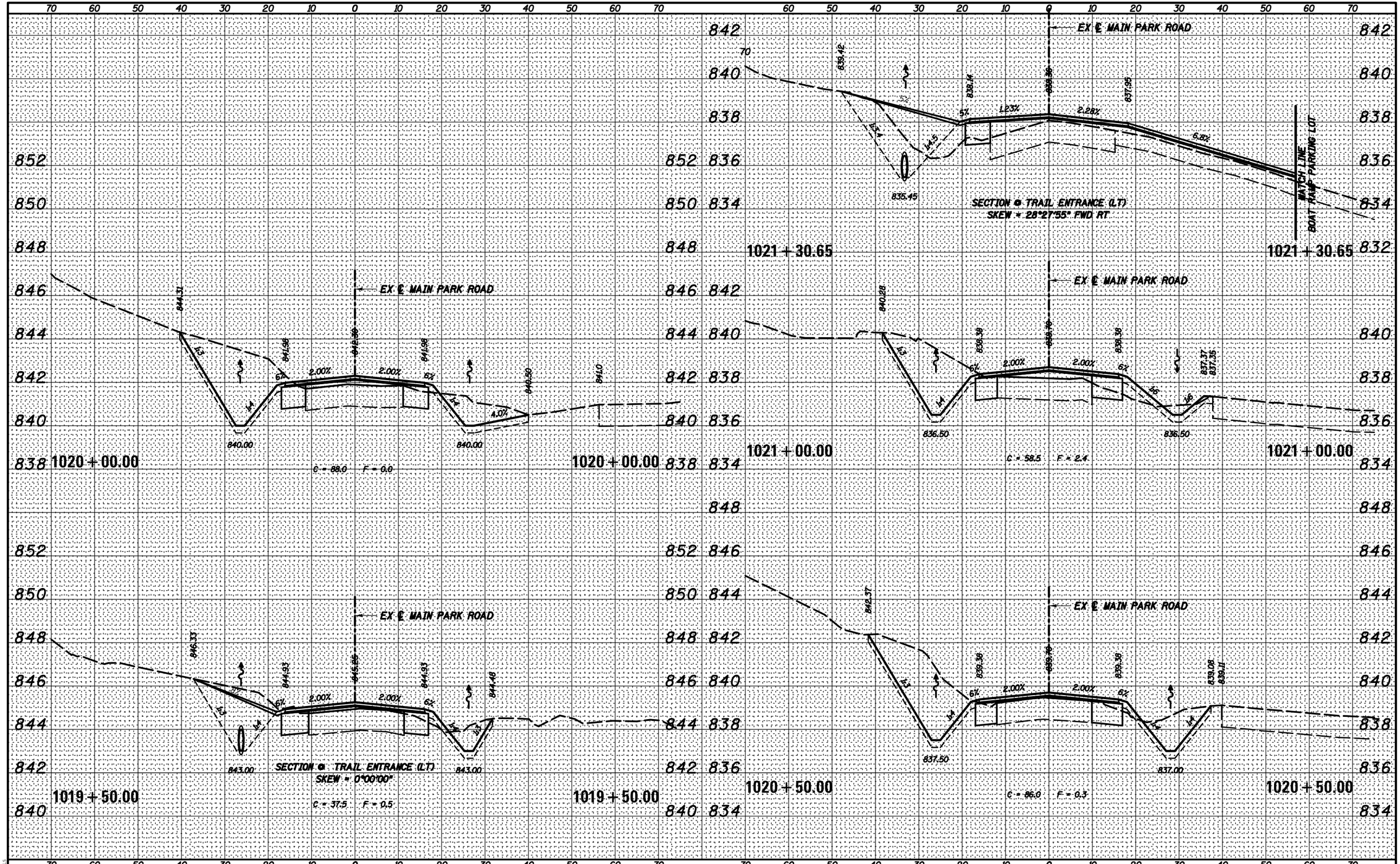
MODEL: SMODELNAME$
FILE NAME: $FILE$

USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1016+50.00 | TO STA. 1019+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	285
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



USER NAME = $USERS	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALES	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATES	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

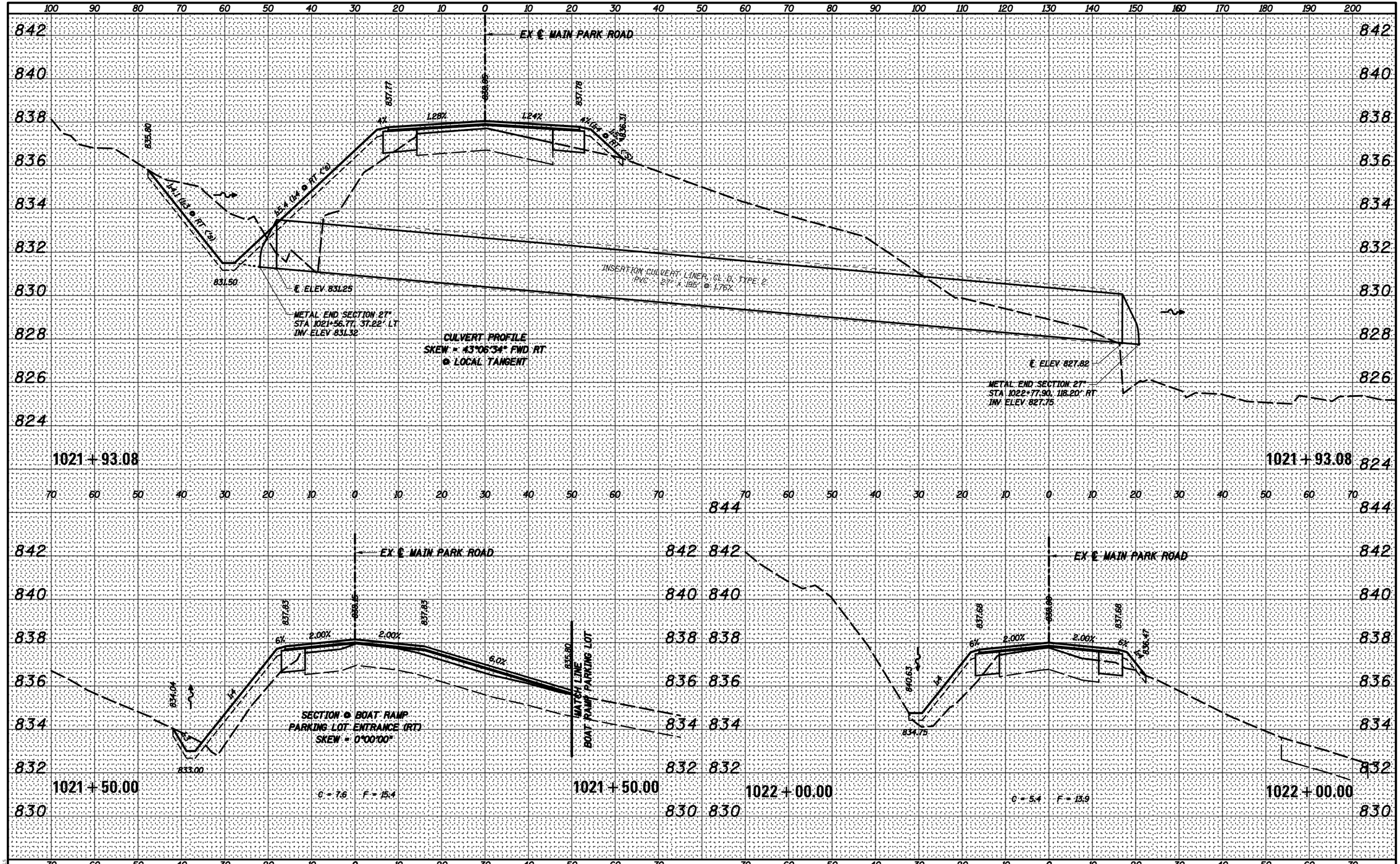
SCALE: | SHEET OF SHEETS | STA. 1019+50.00 | TO STA. 1021+30.65

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	286
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL: SMODELNAMES
FILE NAME: $FILEIL



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1021+50.00 | TO STA. 1022+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	287
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

MODEL: SMODELNAMES
FILE NAME: $FILE$

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 | 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

852 850 848 846 844 842 840 838 836 834 832 830 828

EX ℄ MAIN PARK ROAD

839.20 6% 838.36 2.00% 838.66 2.00% 838.36 6% 836.97

1022+50.00

C = 7.0 F = 21.2

1022+50.00

EX ℄ MAIN PARK ROAD

840.57 6% 839.33 2.00% 839.66 2.00% 839.33 6% 838.41

1023+00.00

C = 9.6 F = 12.6

1023+00.00

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 | 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

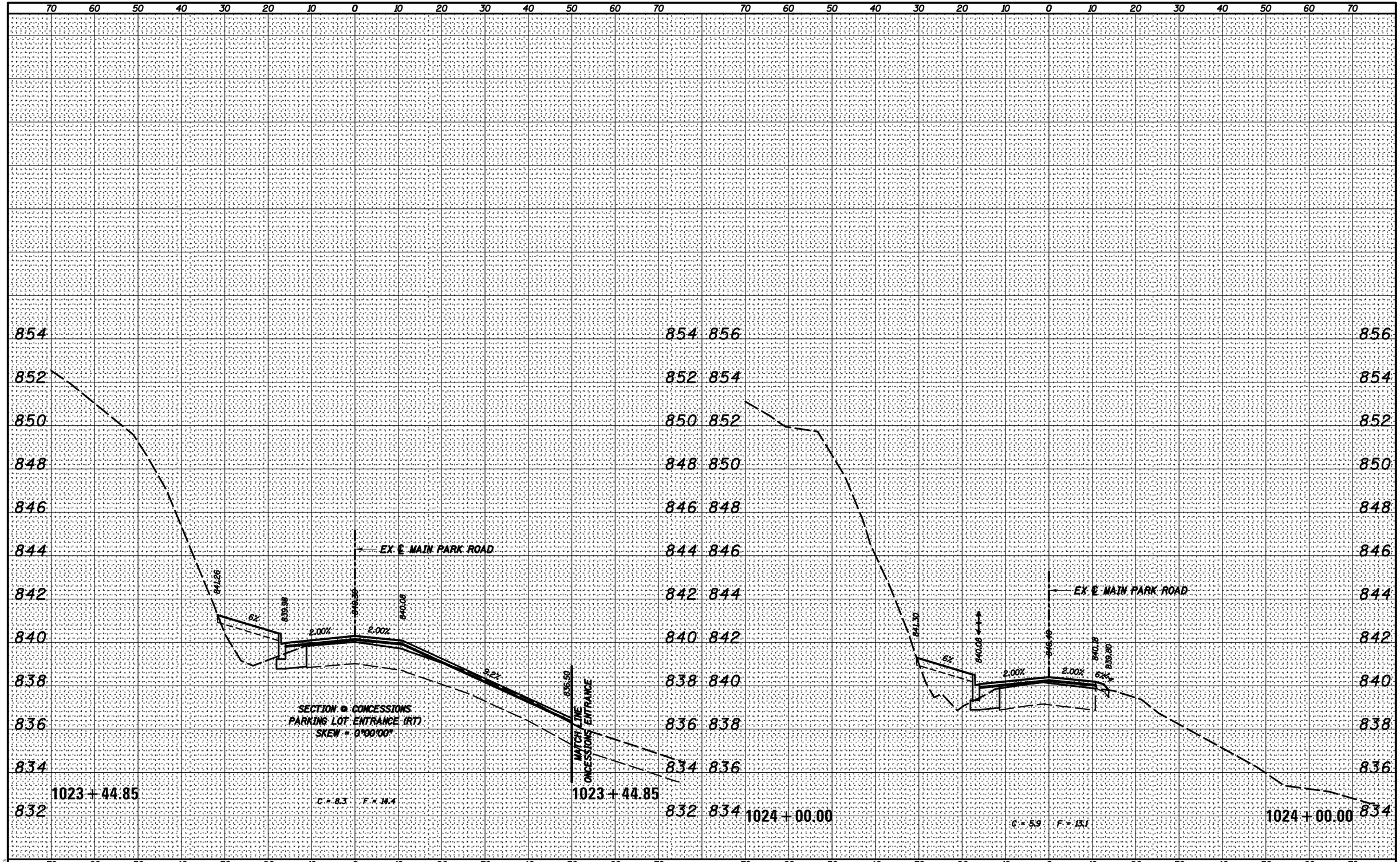
USER NAME = $USER$	DESIGNED - R,H,D.	REVISED -	
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R,H,D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1022+50.00 | TO STA. 1023+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	288
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY

SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NOTE BOOK	
NO.	

BY | DATE

ORIGINAL SURVEY

SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NOTE BOOK	
NO.	

BY | DATE

MODEL: $MODELNAME$
FILE NAME: $FILE$

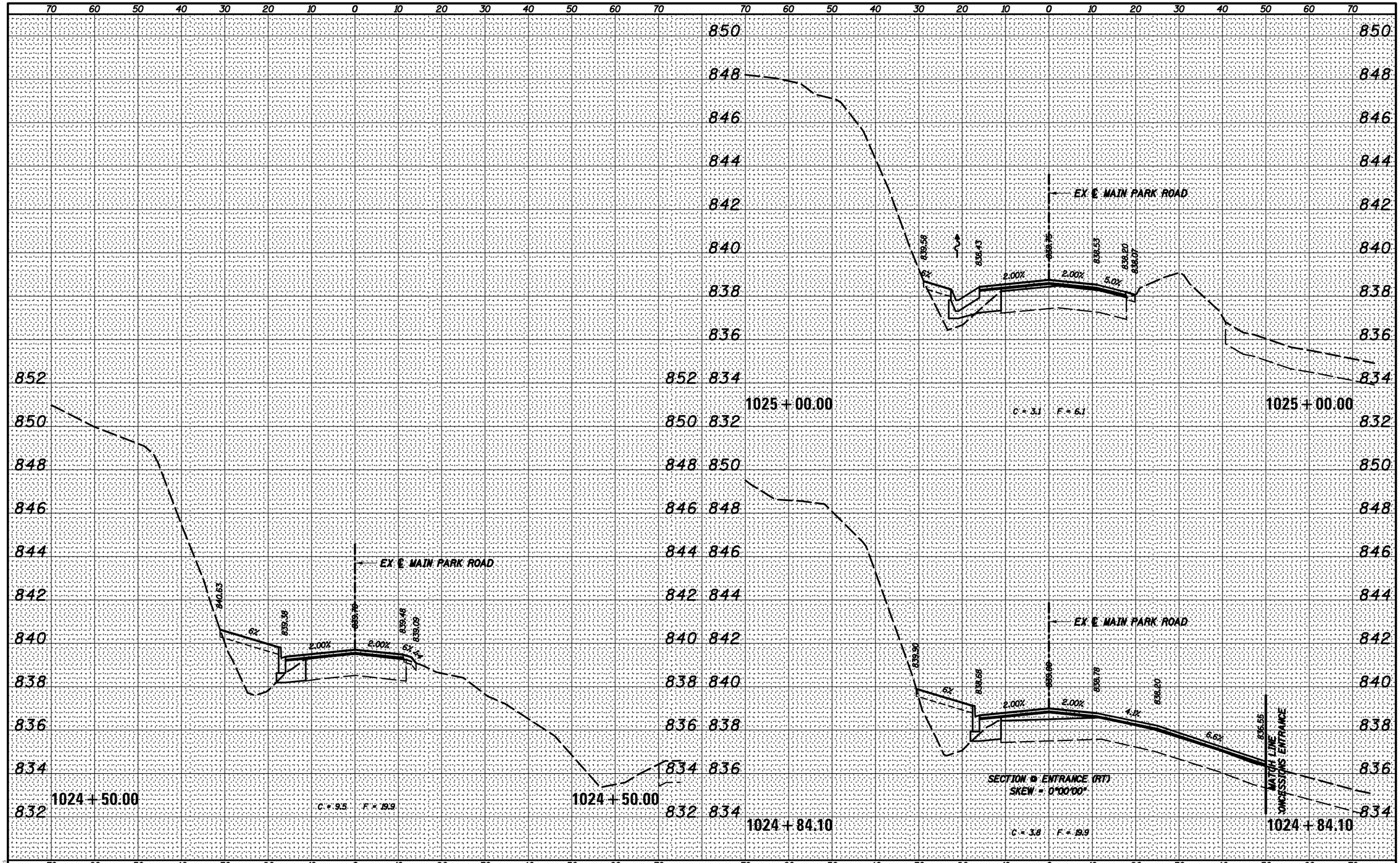
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1023+44.85 | TO STA. 1024+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	289
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	



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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

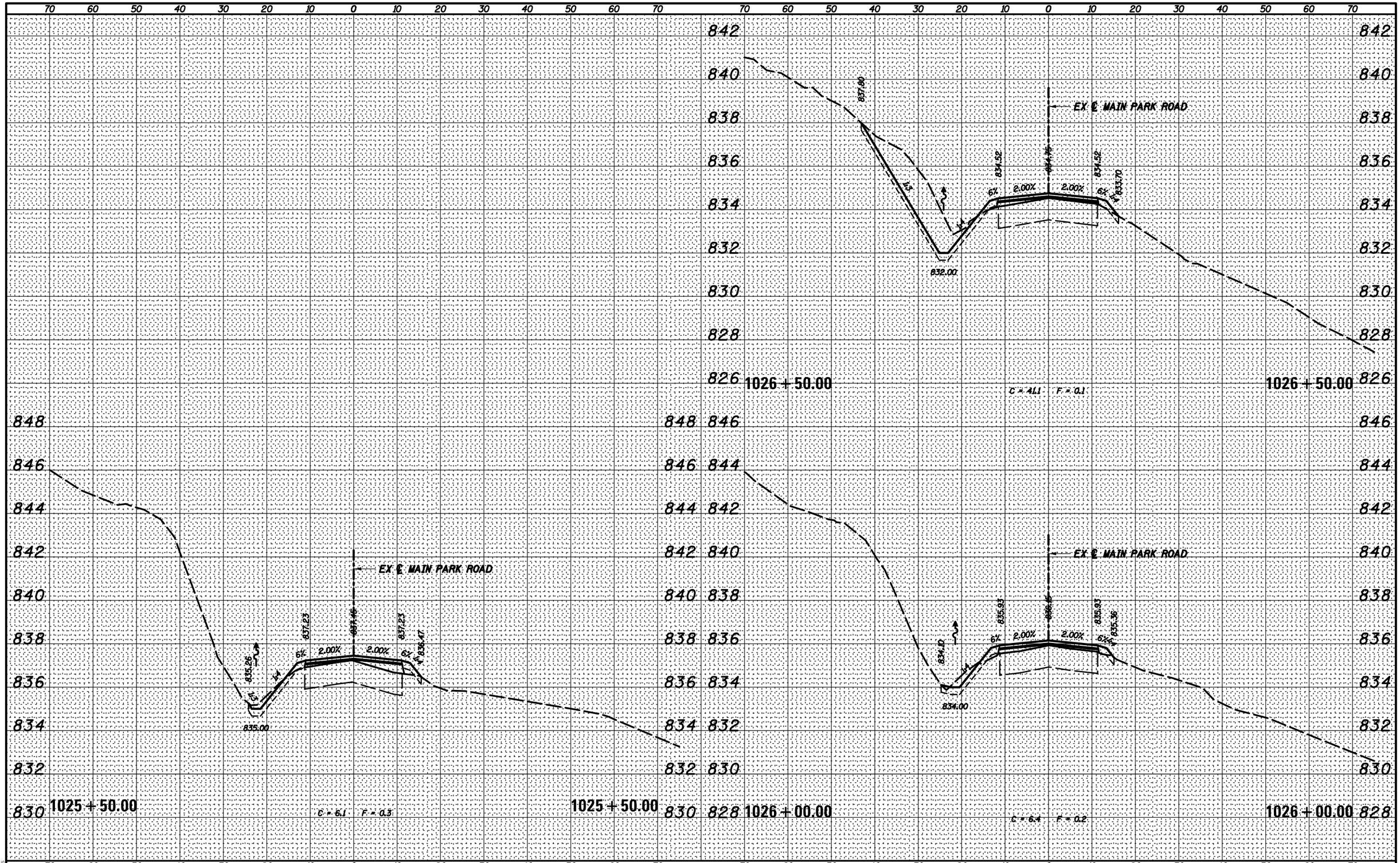
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1024+50.00 | TO STA. 1025+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	290
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

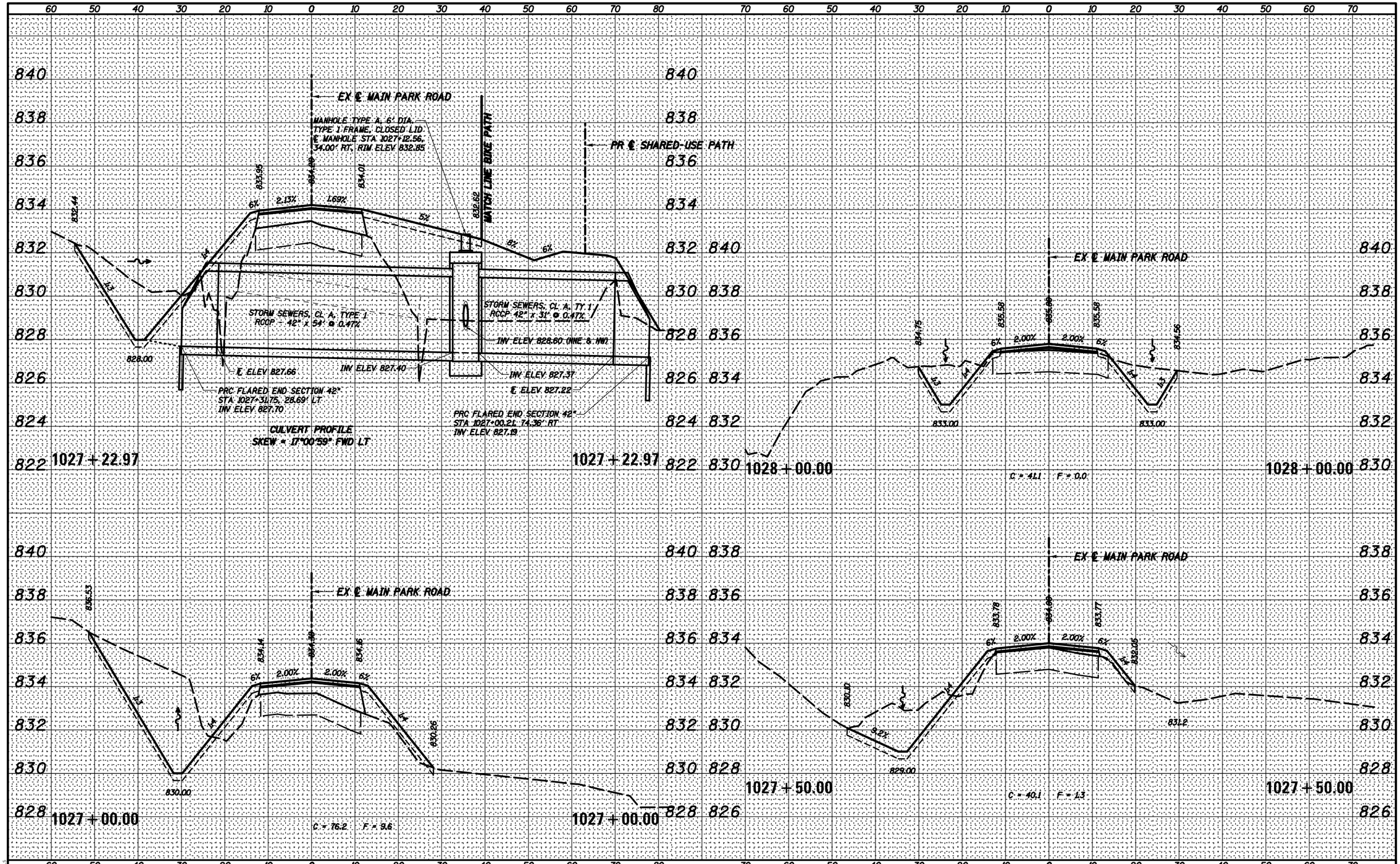
SCALE: | SHEET OF SHEETS | STA. 1025+50.00 | TO STA. 1026+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	291
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

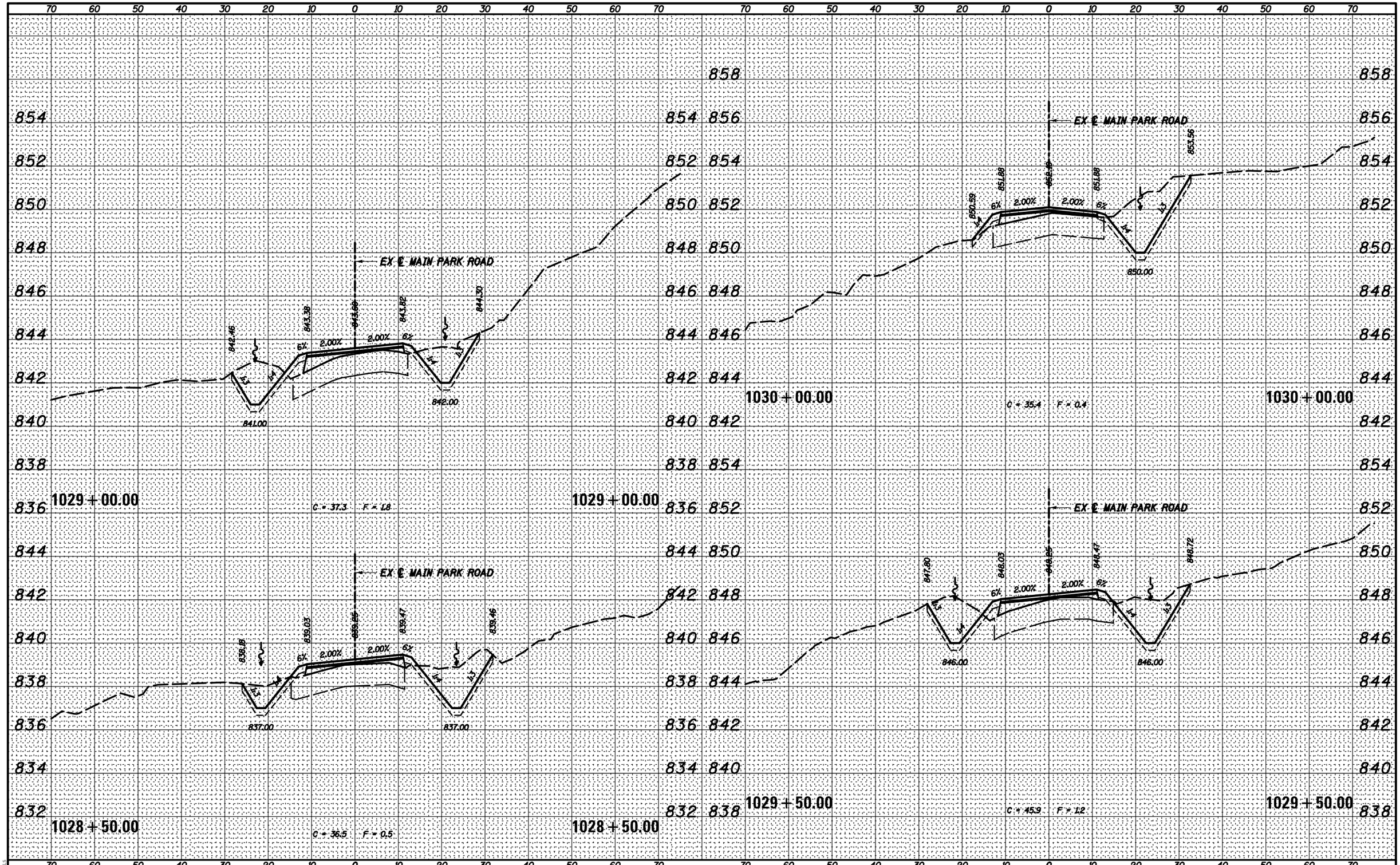
SCALE: | SHEET OF SHEETS | STA. 1027+00.00 TO STA. 1028+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	292
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1028+50.00 | TO STA. 1030+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	293
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	

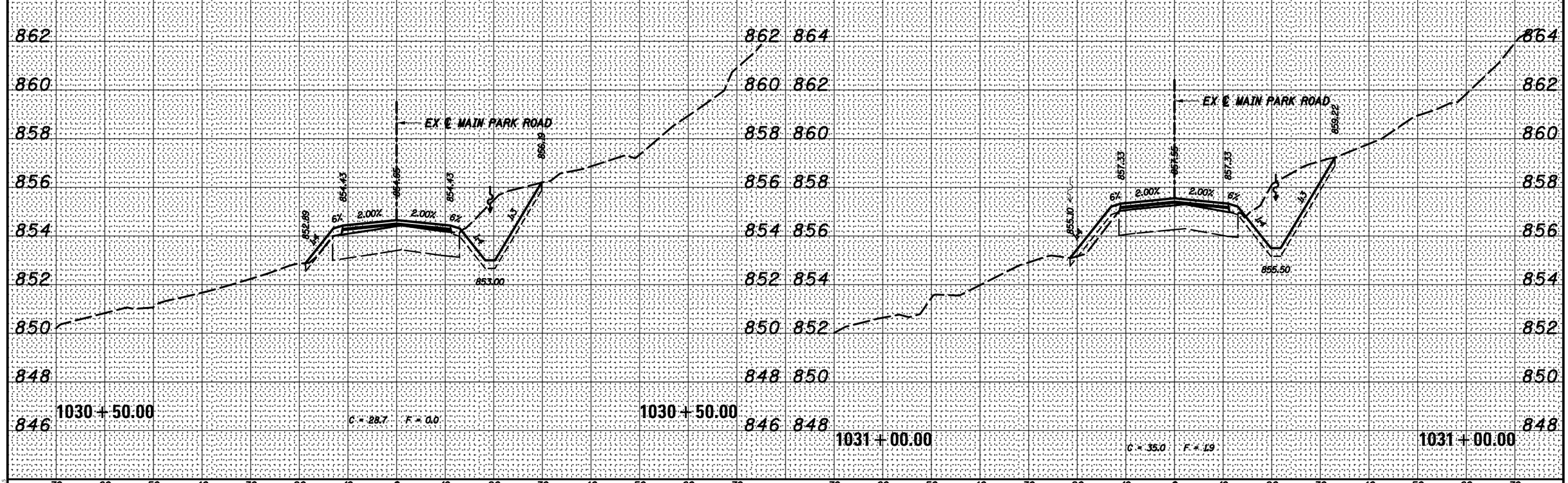
ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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

MODEL: $MODEL$NAMES
FILE NAME: $FILE$

70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 | 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

868 | 868
864 | 866 | 866
862 | 864 | 864
860 | 862 | 862
858 | 860 | 860
856 | 858 | 858
854 | 856 | 856
852 | 854 | 854
850 | 852 | 852
848 | 850 | 850
846 | 848 | 848



70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 | 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$

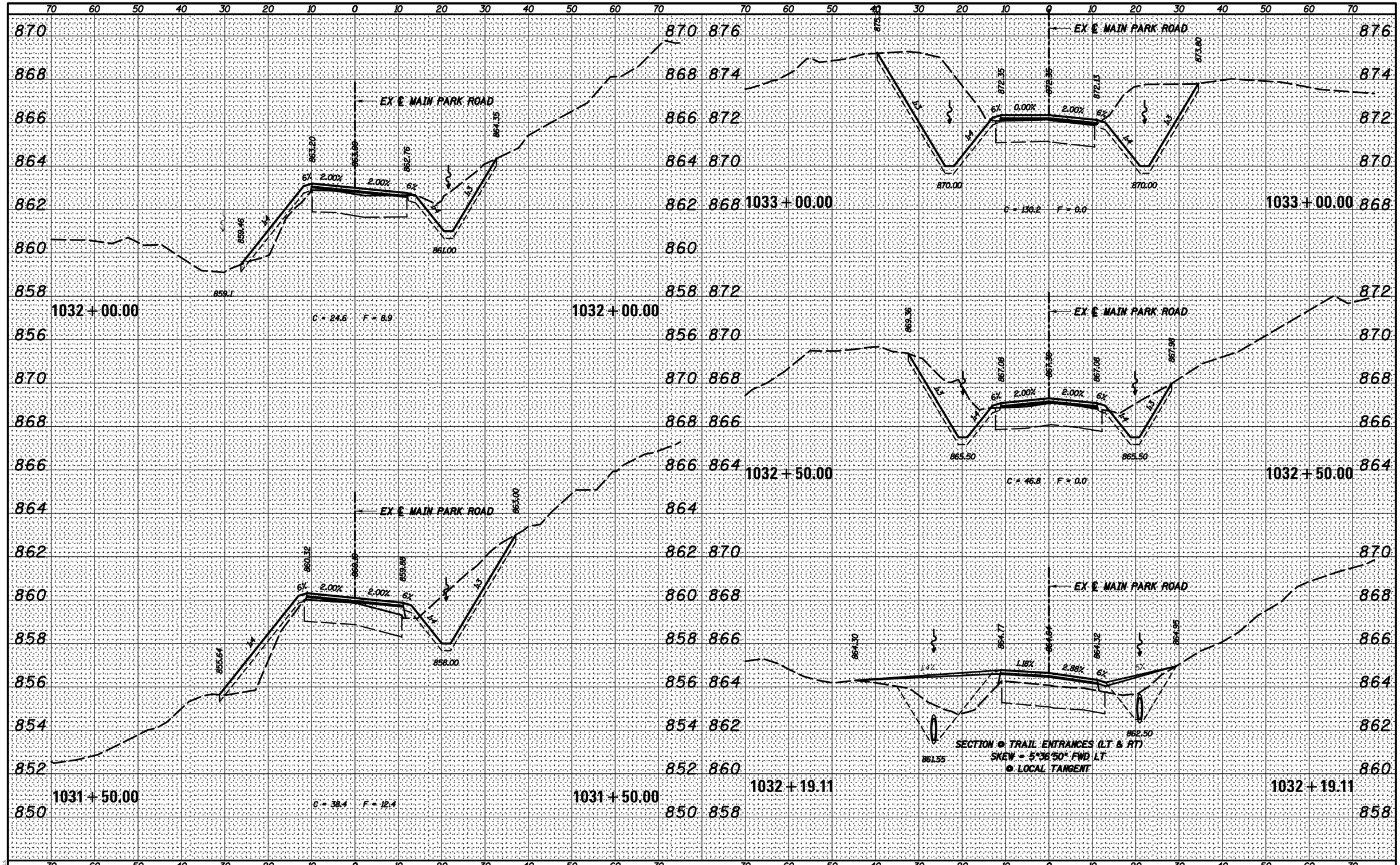
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -
	DRAWN - J.E.B.	REVISED -
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1030+50.00 | TO STA. 1031+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	294
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

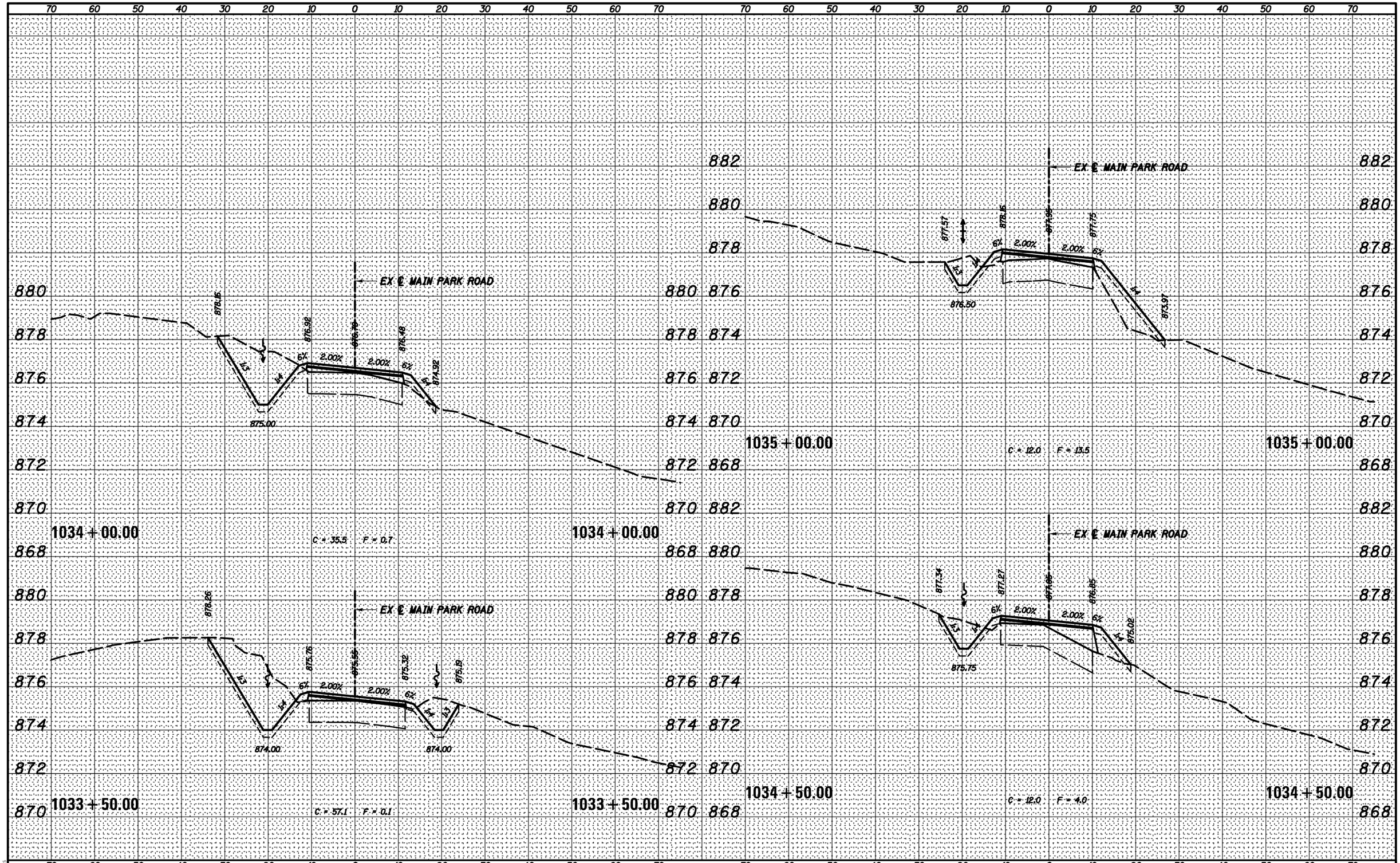
CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1031+50.00 | TO STA. 1033+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	295
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



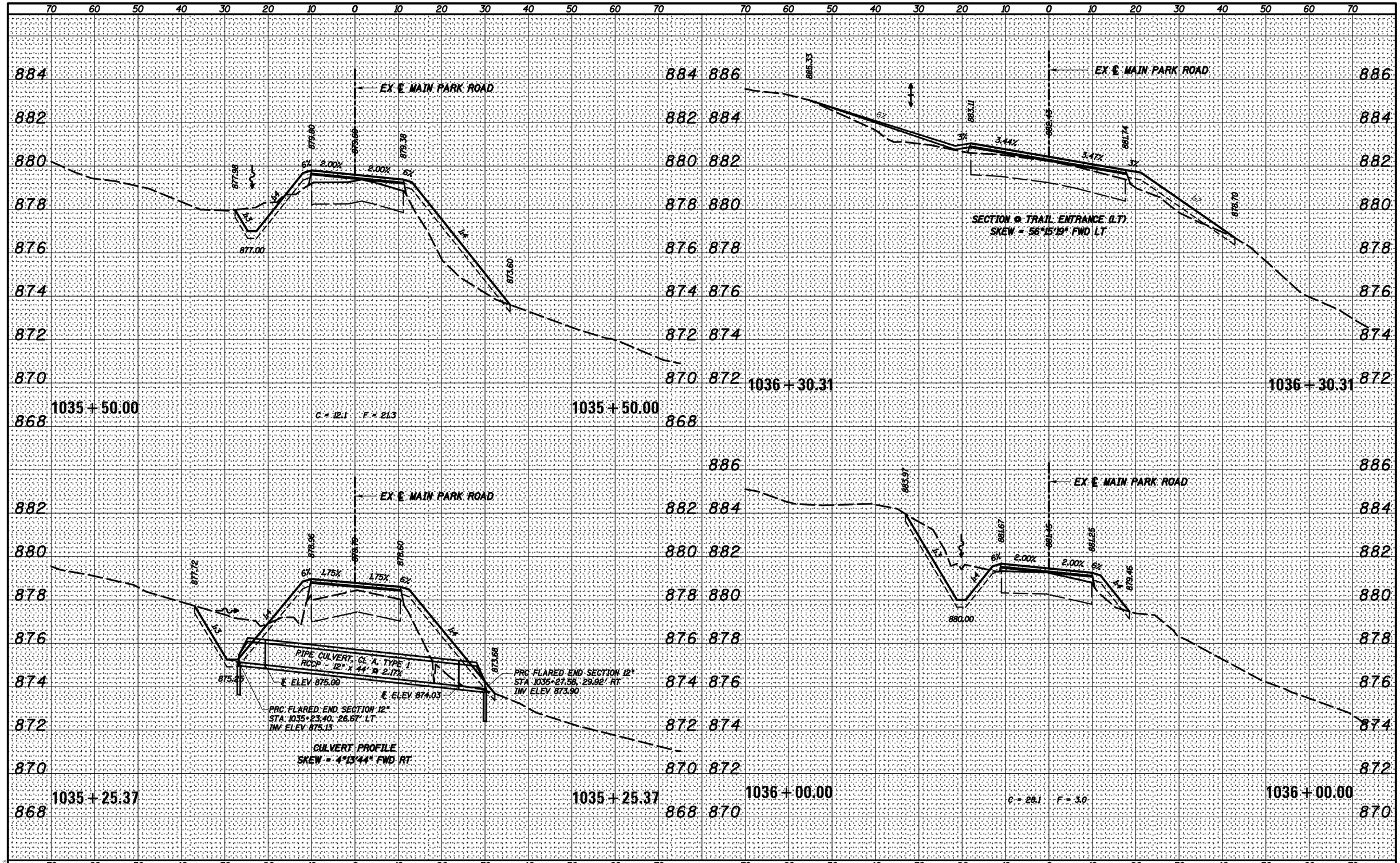
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	CROSS SECTIONS – MAIN PARK ROAD
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	SCALE: SHEET OF SHEETS STA. 1033+50.00 TO STA. 1035+00.00
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	296
			CONTRACT NO. 46903	
		ILLINOIS	FED. AID PROJECT	

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

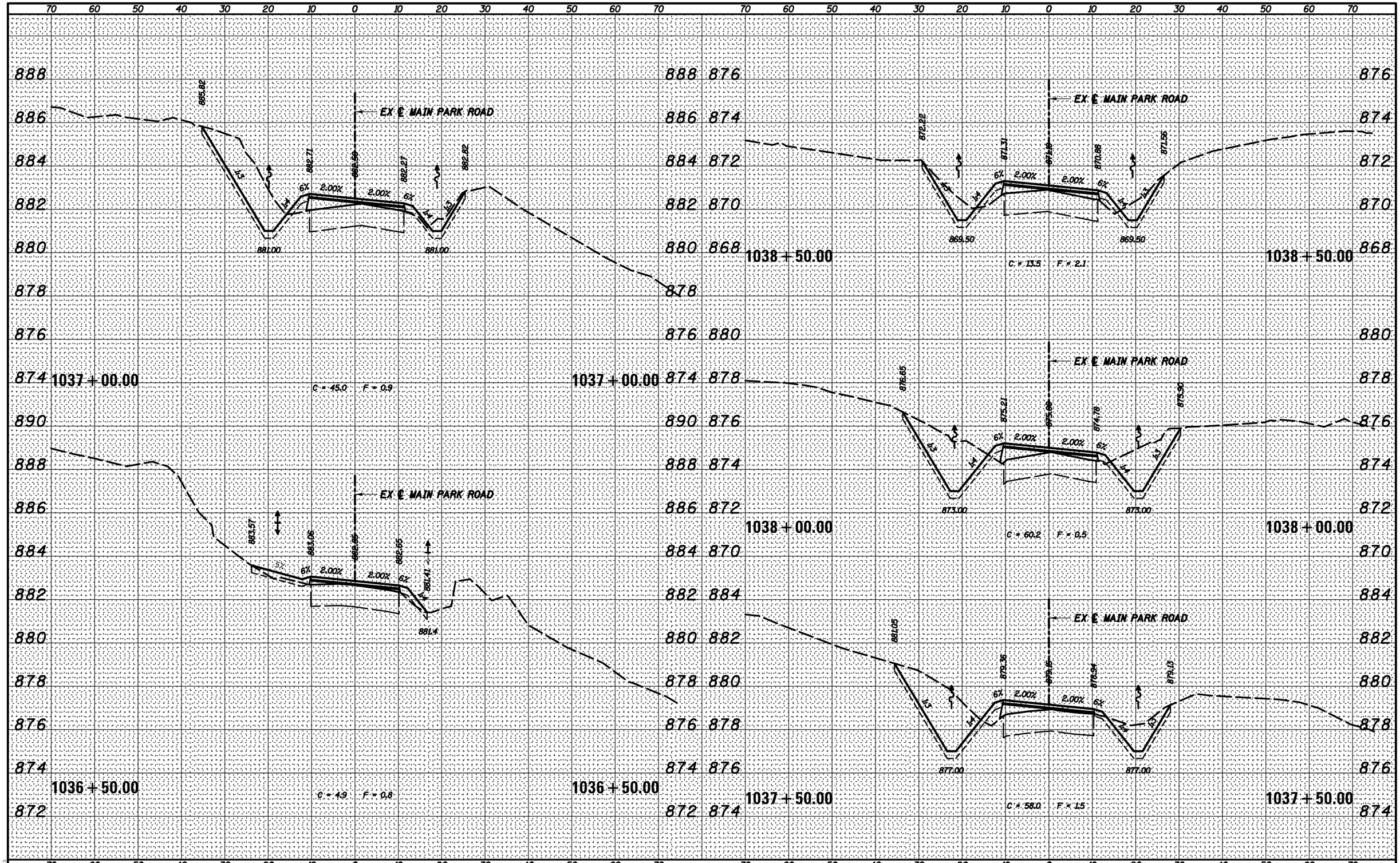
CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1035+25.37 | TO STA. 1036+30.31

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	297
		CONTRACT NO. 46903		
		ILLINOIS	FED. AID PROJECT	

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

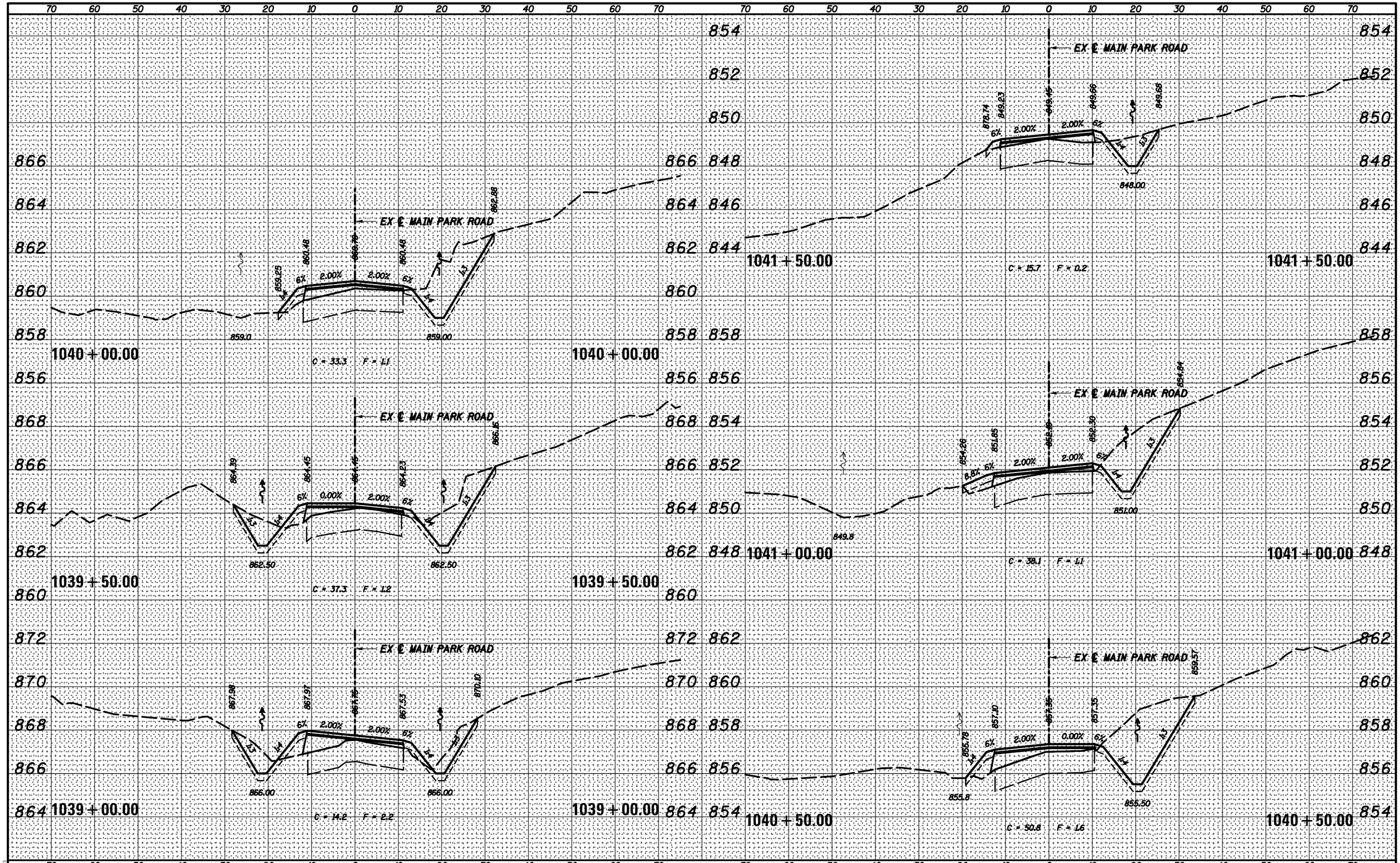
SCALE: | SHEET OF SHEETS | STA. 1036+50.00 | TO STA. 1038+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	298
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



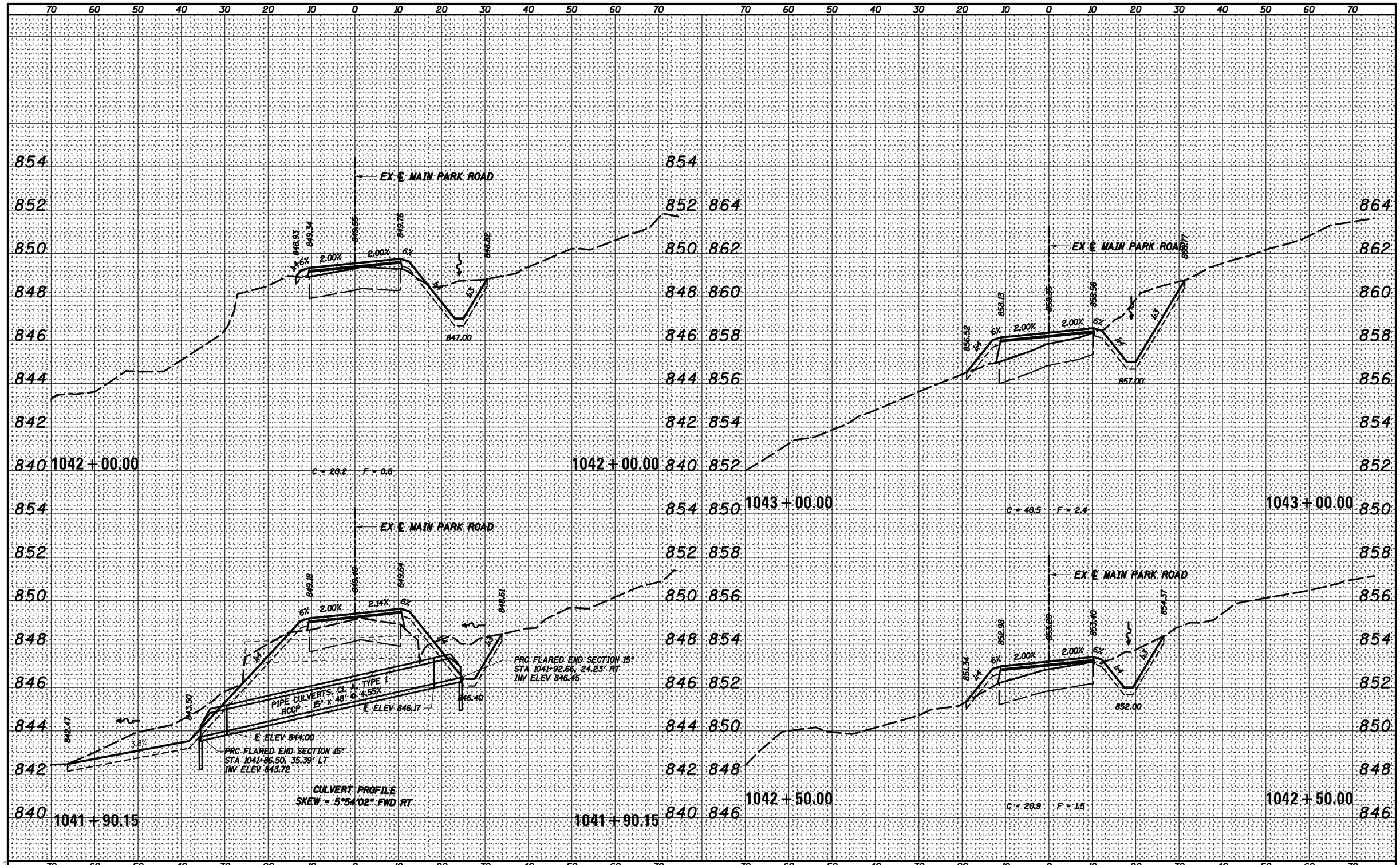
USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS – MAIN PARK ROAD	
	DRAWN - J.E.B.	REVISED -			
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -			
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -		SCALE: SHEET OF SHEETS STA. 1039+00.00 TO STA. 1041+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	299
		CONTRACT NO. 46903		
	ILLINOIS FED. AID PROJECT			

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

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

MODEL: $MODELNAME$
FILE NAME: $FILE$



USER NAME = $USER$	DESIGNED - R.H.D.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - J.E.B.	REVISED -	
PLOT SCALE = $SCALE$	CHECKED - R.H.D.	REVISED -	
PLOT DATE = $DATE$	DATE - 08/31/18	REVISED -	

CROSS SECTIONS – MAIN PARK ROAD

SCALE: | SHEET OF SHEETS | STA. 1041+90.15 | TO STA. 1043+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	ROCK CUT 2018	WINNEBAGO	406	300
		CONTRACT NO. 46903		
	ILLINOIS	FED. AID PROJECT		

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

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

MODEL: $MODELNAME$
FILE NAME: $FILEN$