

INDEX OF SHEETS

11-06-2020 LETTING ITEM 098

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WOODFORD COUNTY HIGHWAY DEPARTMENT

**PLANS FOR
PROPOSED PROPOSED LOCAL AGENCY IMPROVEMENT
HIGHWAY SAFETY IMPROVEMENT PROJECT (201809112)**

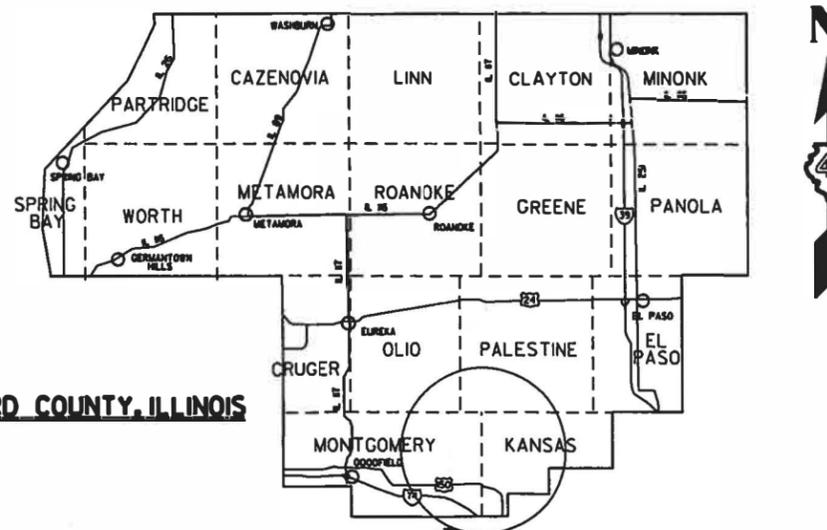
RTE. No.	SECTION	COUNTY	ROAD DISTRICT	TOTAL SHEETS	SHEET NO.
varies	18-00170-00-SP	WOODFORD	COUNTY	7	1

CONTRACT NO. 89754

IDOT STANDARD DRAWINGS

- 630001 STEEL PLATE BEAM GUARDRAIL
- 630301 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635001 DELINEATORS
- 701006 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701101 OFF-RD OPERATIONS, MULTILANE, 2W, 15' TO 24' FROM PAVEMENT EDGE
- 701201 LANE CLOSURE, 2L, 2W, OAY ONLY, FOR SPEEDS >45MPH
- 701301 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701901 TRAFFIC CONTROL DEVICES
- 725001 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL & BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 26.3 STEEL PLATE BEAM GUARDRAIL 29" HEIGHT

**GUARDRAIL REPLACEMENT
WOODFORD COUNTY
SECTION: 18-00170-00-SP
PROJECT: T4G0(666)
JOB: C-94-046-20
CONTRACT 89754**



WOODFORD COUNTY, ILLINOIS

LOCATION MAP (NO SCALE)

DESCRIPTION OF WORK

THE WORK UNDER THIS CONTRACT INCLUDES, BUT NOT LIMITED TO, REMOVAL AND REPLACEMENT OF GUARDRAILS AND ELEMENTS RELATED THERETO, TOGETHER WITH THE NECESSARY SHOULDER RESTORATION NECESSITATED BY SAID GUARDRAIL REMOVAL AND REPLACEMENT.

UTILITIES

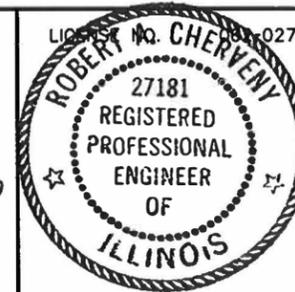
THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE MOST ACCURATE INFORMATION AVAILABLE BUT ARE NOT GUARANTEED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES. CALL J.U.L.I.E. @ 1-800-892-0123

COUNTY: WOODFORD
TOWNSHIP: VARIOUS
SECTION: VARIES.

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



DATE: 9/28/2020
BY: Robert H. Cherven
LICENSE EXPIRES: 11/30/2021



SEAL:

APPROVED 09/28 20 20
Case
WOODFORD COUNTY ENGINEER

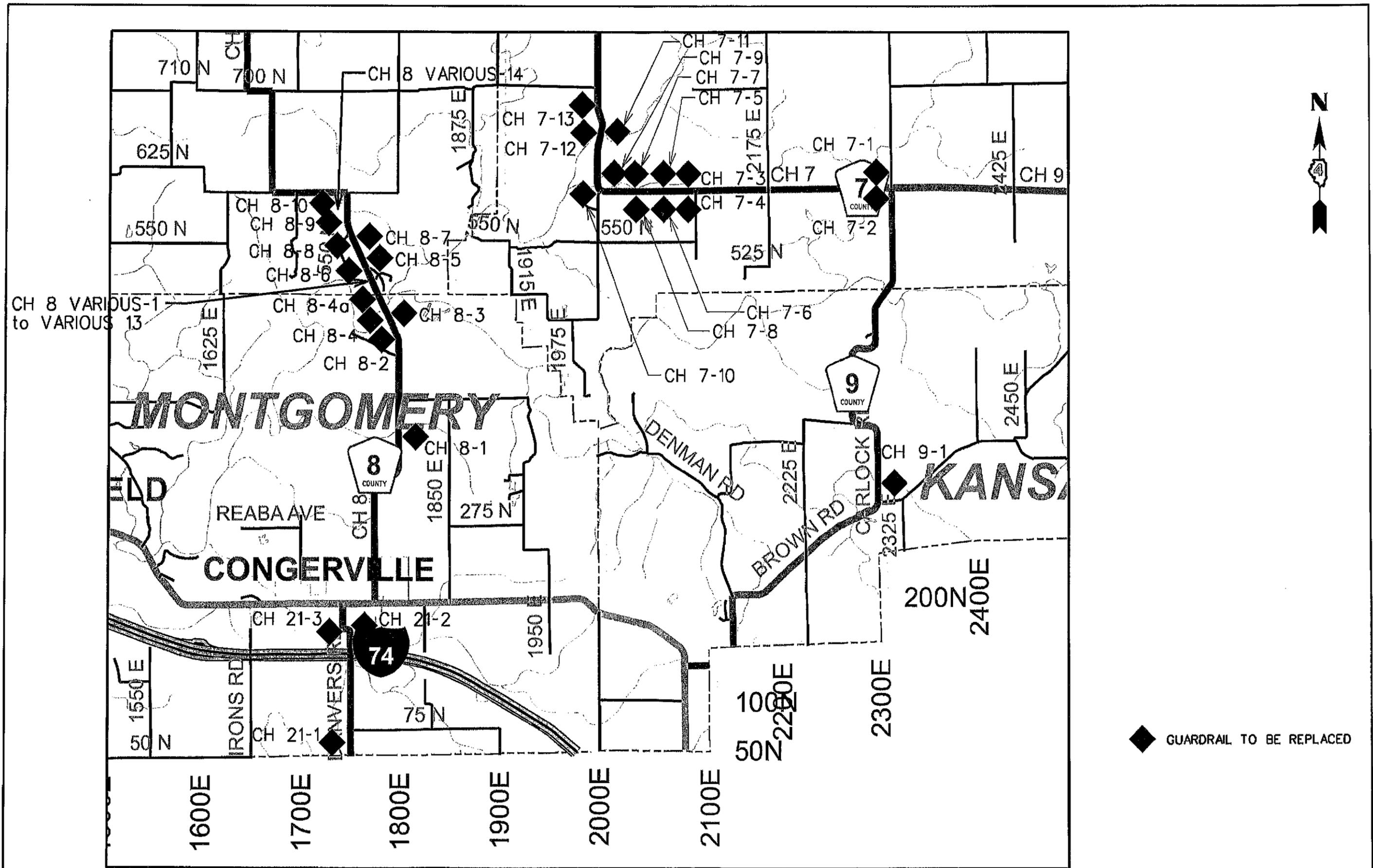
PASSED 10-10 20 20
Robert H. Cherven
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Released For Bid Based on Limited Review
October 10 20 20
Robert H. Cherven
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**WOODFORD COUNTY
HIGHWAY DEPARTMENT**
CONRAD MOORE, P.E.
COUNTY ENGINEER
301 S. Main St.
Roanoke, IL 61561-0467
TEL: 309-923-2891
FAX: 309-467-7220



◆ GUARDRAIL TO BE REPLACED

FILE NAME * V:\County\18-00170-00-SP MSP Board\18-00170-00-SP D3.WAP.dgn	USER NAME * RUSERNAME	DESIGNED -	REVISD -	WOODFORD COUNTY HIGHWAY DEPARTMENT	HIGHWAY SAFETY IMPROVEMENT PROJECT GUARDRAIL REPLACEMENT	RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE * 1:1	DRAWN - SPN	CHECKED -	REVISD -			VARIES	18-00170-00-SP	WOODFORD	1	3	
PLOT DATE * 5/4/2020	CHECKED - RAC	REVISD -	REVISD -			CONTRACT NO. 89754					
ILLINOIS FED. AID PROJECT											

9/24/2020

SCHEDULE OF QUANTITIES

NOTE: "BEGIN" AND "END" REFER TO LIN. FT. FROM "REFERENCE: ZERO(0)" AT ALL LOCATIONS

LOCATION	SHOULDER WIDTH	REMOVAL L.F.	GUARDRAIL TY. B L.F.	GUARDRAIL TY. A L.F.	REFLECTOR EACH	TERM. TY. 1 EACH	TERM. MARKER EACH	END SECTION EACH	TERM. TY. 6 EACH	R & R PANEL ONLY	C&G, TY. B6.12 L.F.	R&R RAIL ELEMENT EACH	LEVELING BINDER TON	GRADE & SHAPE L.F.	AGG SHOULDER TY B TON
CH 7-1 & CH 7-2	4	675	200	325	10	3	3	1						675	20
CH 7-3 & CH 7-4	6	400		200	7	4	4							400	40
CH 7-5 & CH 7-6	6	375		175	6	4	4							375	11
CH 7-7 & CH 7-8	6	750		550	14	4	4						30	750	125
CH 7-9 & CH 7-10	6	800		600	16	4	4						10	800	23
CH 7-11 & CH 7-12	6	725		575	10	3	3	1						725	22
CH 7-13	6	200		100	4	2	2							200	6
CH 8-1	N/A										2		2		0
CH 8-2	N/A										8		8		0
CH 8-3	4	1225		1187.5	25			1	1		15			1225	37
CH 8-4	4	925		875	18	1	1	1						925	26
CH 8-4a	4	275		237.5	6			1	1		15			275	8
CH 8-VARIOUS	N/A	525				9	9		2	10	30	10		525	20
CH 8-5 & CH 8-6	4	450		250	10	4	4							450	12
CH 8-7 & CH 8-8	4	1025		825	20	4	4							1025	31
CH 8-9	4	275		175	5	2	2							275	8
CH 8-10	6	450		350	9	2	2							450	30
CH 9-1	6	325		225	5	2	2							325	10
CH 21-1	4	250		150	6	2	2							250	8
CH 21-2 & CH 21-3	4									15		15			0
TOTALS		9650	200	6800	171	50	50	5	4	35	60	35	40	9650	437

CH 7-1 AND CH 7-2
REFERENCE: ZERO (0) AT 600N-2300E
TWO LOCATIONS - RIGHT AND LEFT SIDES
LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 7-1

BEGIN	END	TOTAL LENGTH (FT)
1275	1650	375
1 TERMINALS		-50
ADJUSTED LENGTH		325

ADJUSTED LENGTH INCLUDES 100 LIN. FT. OF STEEL PLATE BEAM GUARDRAIL, TYPE B AND 225 LIN. FT. OF STEEL PLATE BEAM GUARDRAIL, TYPE A. TYPE B GUARDRAIL TO BE POSITIONED AS DIRECTED BY THE ENGINEER IN THE FIELD.

NOTE: LOCATION CH 7-1 INCLUDES TWO (2) RADIUS PANELS (±14' RAD) & ONE END SECTION PER 630001-12.

LEFT SIDE---CH 7-2

BEGIN	END	TOTAL LENGTH (FT)
1350	1650	300
2 TERMINALS		-100
ADJUSTED LENGTH		200

ADJUSTED LENGTH INCLUDES 100 LIN. FT. OF STEEL PLATE BEAM GUARDRAIL, TYPE B AND 100 LIN. FT. OF STEEL PLATE BEAM GUARDRAIL, TYPE A. TYPE B GUARDRAIL TO BE POSITIONED AS DIRECTED BY THE ENGINEER IN THE FIELD.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	675
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	325
STEEL PLATE BEAM GUARDRAIL TYPE B, 9 FOOT POSTS	LIN FT	200
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
REFLECTORS	EACH	10
TERMINAL MARKERS	EACH	3
GRADING AND SHAPING SHOULDERS	UNIT	675
AGGREGATE SHOULDERS TYPE B	TON	20

NOTE: TERMINAL MARKER AND END SECTION QUANTITIES HAVE BEEN SHOWN FOR INFORMATION ONLY AND WILL NOT BE MEASURED FOR PAYMENT. THESE ITEMS WILL BE CONSIDERED INCIDENTAL IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

1 GUARDRAIL INSTALLED IN ACCORDANCE WITH STD 630001.

2 RAIL ELEMENTS INSTALLED IN ACCORDANCE WITH STD 26-3.

CH 7-3 AND CH 7-4
REFERENCE: ZERO (0) AT 600N-2100E
TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 7-3

BEGIN	END	TOTAL LENGTH (FT)
2400	2600	200
2 TERMINALS		-100
ADJUSTED LENGTH		100

LEFT SIDE---CH 7-4

BEGIN	END	TOTAL LENGTH (FT)
2375	2575	200
2 TERMINALS		-100
ADJUSTED LENGTH		100

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	400
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	200
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	7
TERMINAL MARKERS	EACH	4
GRADING AND SHAPING SHOULDERS	UNIT	400
AGGREGATE SHOULDERS TYPE B	TON	40

CH 7-5 AND CH 7-6
REFERENCE: ZERO (0) AT 600N-2100E
TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 7-5

BEGIN	END	TOTAL LENGTH (FT)
3100	3300	200
2 TERMINALS		-100
ADJUSTED LENGTH		100

LEFT SIDE---CH 7-6

BEGIN	END	TOTAL LENGTH (FT)
3100	3275	175
2 TERMINALS		-100
ADJUSTED LENGTH		75

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	375
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	175
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	6
TERMINAL MARKERS	EACH	4
GRADING AND SHAPING SHOULDERS	UNIT	375
AGGREGATE SHOULDERS TYPE B	TON	11

FILE NAME : \\N:\County\18-00170-00-SP (HSP) Guardrail\A02 Design\cgr\18-00170-00-SP 02_04-END TABLES.dgn
USER NAME : BUSERNAME
DESIGNED : RAC
CHECKED : CSM
PLOT SCALE : 105
PLOT DATE : 9/28/2020

REVISED : ---
REVISED : ---
DRAWN : SPN
CHECKED : RAC

WOODFORD COUNTY
HIGHWAY DEPARTMENT

HIGHWAY SAFETY IMPROVEMENT PROJECT
SCHEDULE OF QUANTITIES /
CH 7 LOCATION CHARTS

RTE. No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	18-00170-00-SP	WOODFORD	7	4
			CONTRACT NO. 89754	
ILLINOIS FED. AID PROJECT				

CH 7-7 AND CH 7-8
 REFERENCE: ZERO (0) AT 600N-2100E
 TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 7-7

BEGIN	END	TOTAL LENGTH (FT)
4020	4320	300
2 TERMINALS		-100
ADJUSTED LENGTH		200

LEFT SIDE---CH 7-8

BEGIN	END	TOTAL LENGTH (FT)
3930	4380	450
2 TERMINALS		-100
ADJUSTED LENGTH		350

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	750
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	550
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	14
TERMINAL MARKERS	EACH	4
LEVELING BINDER	TON	30
GRADING AND SHAPING SHOULDERS	UNIT	750
AGGREGATE SHOULDERS TYPE B	TON	125

NOTE: "BEGIN" AND "END"
 REFER TO LIN. FT.
 FROM "REFERENCE: ZERO(0)"
 AT ALL LOCATIONS

CH 7-9 AND CH 7-10
 REFERENCE: ZERO (0) AT 600N-2100E
 TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 7-9

BEGIN	END	TOTAL LENGTH (FT)
5200	5650	450
2 TERMINALS		-100
ADJUSTED LENGTH		350

LEFT SIDE---CH 7-10

BEGIN	END	TOTAL LENGTH (FT)
5250	5600	350
2 TERMINALS		-100
ADJUSTED LENGTH		250

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	800
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	600
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	16
TERMINAL MARKERS	EACH	4
LEVELING BINDER	TON	10
GRADING AND SHAPING SHOULDERS	UNIT	800
AGGREGATE SHOULDERS TYPE B	TON	23

CH 7-13
 REFERENCE: ZERO (0) AT 600N-2100E
 ONE LOCATION - LEFT SIDE

LENGTH OF TERMINALS = 50 FEET

LEFT SIDE

BEGIN	END	TOTAL LENGTH (FT)
9800	10000	200
2 TERMINALS		-100
ADJUSTED LENGTH		100

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	200
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	100
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
REFLECTORS	EACH	4
TERMINAL MARKERS	EACH	2
GRADING AND SHAPING SHOULDERS	UNIT	200
AGGREGATE SHOULDERS TYPE B	TON	6

CH 7-11 AND CH 7-12
 REFERENCE: ZERO (0) AT 600N-2100E
 TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE--CH 7-11

BEGIN	END	TOTAL LENGTH (FT)
8520	8995	475
2 TERMINALS		-100
ADJUSTED LENGTH		375

LEFT SIDE--CH 7-12

BEGIN	END	TOTAL LENGTH (FT)
8725	8975	250
1 TERM.-TANGENT		-50
ADJUSTED LENGTH		200

NOTE: LOCATION CH 7-12 INCLUDES TWO (2) RADIUS PANELS (+14' RAD) & ONE END SECTION PER 630001-12.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	725
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	575
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
END SECTION	EACH	1
REFLECTORS	EACH	10
TERMINAL MARKERS	EACH	3
GRADING AND SHAPING SHOULDERS	UNIT	725
AGGREGATE SHOULDERS TYPE B	TON	22

NOTE: "BEGIN" AND "END" REFER TO LIN. FT.
FROM "REFERENCE: ZERO(0)" AT ALL LOCATIONS

CH 8-1
REFERENCE: 1,485 FEET SOUTH OF 400 N
ONE LOCATION - LEFT (EAST) SIDE

BEGINNING AT ±1,485 FEET REMOVE AND REPLACE 2 RAIL PANELS ON THE EAST SIDE AS DIRECTED BY THE ENGINEER.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
RAIL ELEMENT PLATE	EACH	2

CH 8-2
REFERENCE: ZERO AT 450 N
ONE LOCATION - LEFT SIDE

BETWEEN 75 FEET AND 480 FEET REMOVE AND REPLACE 8 RAIL PANELS AT 3 SEPARATE LOCATIONS WITHIN THAT LENGTH AS DIRECTED BY THE ENGINEER.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
RAIL ELEMENT PLATE	EACH	8

CH 8-4a
REFERENCE: ZERO (0) AT 450 N
ONE LOCATION - LEFT SIDE

LENGTH OF TERMINAL = 37.5 FEET

BEGIN	END	TOTAL LENGTH (FT)
2225	2500	275
1 TERM. TY. 6		-37.5
ADJUSTED LENGTH		237.5

NOTE: THIS LOCATION INCLUDES TWO (2) RADIUS PANELS (±14' RAD) AND ONE END SECTION PER 630001-12.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	275
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	237.5
CURB & GUTTER, TYPE B6.12	LIN FT	15
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1
END SECTION	EACH	1
REFLECTORS	EACH	6
GRADING AND SHAPING SHOULDERS	UNIT	275
AGGREGATE SHOULDERS TYPE B	TON	8

CH 8-3
REFERENCE: ZERO (0) AT 450 N
ONE LOCATION - RIGHT SIDE

LENGTH OF TERMINAL = 37.5 FEET

BEGIN	END	TOTAL LENGTH (FT)
1270	2495	1225
1 TERM. TY. 6		-37.5
ADJUSTED LENGTH		1187.5

NOTE: THIS LOCATION INCLUDES TWO (2) RADIUS PANELS (±14' RAD) AND ONE END SECTION PER 630001-12.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	1225
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	1187.5
CURB & GUTTER, TYPE B6.12	LIN FT	15
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1
END SECTION	EACH	1
REFLECTORS	EACH	25
GRADING AND SHAPING SHOULDERS	UNIT	1225
AGGREGATE SHOULDERS TYPE B	TON	37

CH 8-5 AND CH 8-6
REFERENCE: ZERO (0) AT 450 N
TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 8-5

BEGIN	END	TOTAL LENGTH (FT)
5560	5810	250
2 TERMINALS		-100
ADJUSTED LENGTH		150

LEFT SIDE---CH 8-6

BEGIN	END	TOTAL LENGTH (FT)
5585	5785	200
2 TERMINALS		-100
ADJUSTED LENGTH		100

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	450
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	250
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	10
TERMINAL MARKERS	EACH	4
GRADING AND SHAPING SHOULDERS	UNIT	450
AGGREGATE SHOULDERS TYPE B	TON	12

CH 8-4
REFERENCE: ZERO (0) AT 450 N
ONE LOCATION - LEFT SIDE ONLY

LENGTH OF TERMINALS = 50 FEET

BEGIN	END	TOTAL LENGTH (FT)
1280	2205	925
1 TERM.-TANGENT		-50
ADJUSTED LENGTH		875

NOTE: THIS LOCATION INCLUDES TWO (2) RADIUS PANELS (±14' RAD) AND ONE END SECTION PER 630001-12.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	925
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	875
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1
END SECTION	EACH	1
REFLECTORS	EACH	18
TERMINAL MARKERS	EACH	1
GRADING AND SHAPING SHOULDERS	UNIT	925
AGGREGATE SHOULDERS TYPE B	TON	26

CH 8-7 AND CH 8-8
REFERENCE: ZERO (0) AT 450 N
TWO LOCATIONS - RIGHT AND LEFT SIDES

LENGTH OF TERMINALS = 50 FEET

RIGHT SIDE---CH 8-7

BEGIN	END	TOTAL LENGTH (FT)
6145	6670	525
2 TERMINALS		-100
ADJUSTED LENGTH		425

LEFT SIDE---CH 8-8

BEGIN	END	TOTAL LENGTH (FT)
6175	6675	500
2 TERMINALS		-100
ADJUSTED LENGTH		400

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	1025
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	825
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
REFLECTORS	EACH	20
TERMINAL MARKERS	EACH	4
GRADING AND SHAPING SHOULDERS	UNIT	1025
AGGREGATE SHOULDERS TYPE B	TON	31

NOTE: "BEGIN" AND "END"
REFER TO LIN. FT.
FROM "REFERENCE: ZERO(0)"
AT ALL LOCATIONS

CH 8-9
REFERENCE: ZERO (0) AT 450 N

ONE LOCATION - LEFT SIDE ONLY

LENGTH OF TERMINALS = 50 FEET

BEGIN	END	TOTAL LENGTH (FT)
7045	7320	275
2 TERMINALS		-100
ADJUSTED LENGTH		175

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	275
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	175
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
REFLECTORS	EACH	5
TERMINAL MARKERS	EACH	2
GRADING AND SHAPING SHOULDERS	UNIT	275
AGGREGATE SHOULDERS TYPE B	TON	8

CH 8-10
REFERENCE: ZERO (0) AT 450 N
ONE LOCATION - LEFT SIDE

LENGTH OF TERMINALS = 50 FEET

BEGIN	END	TOTAL LENGTH (FT)
8025	8475	450
2 TERMINALS		-100
ADJUSTED LENGTH		350

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	450
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	350
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
REFLECTORS	EACH	9
TERMINAL MARKERS	EACH	2
GRADING AND SHAPING SHOULDERS	UNIT	450
AGGREGATE SHOULDERS TYPE B	TON	30

CH 8-VARIOUS
REFERENCE: ZERO (0) AT 450 N
REPLACE TERMINALS AND/OR RAIL PANELS (ELEMENTS) ONLY

LOC. NO.	PANELS (ELEMENTS) ONLY
CH 8 V-1	RIGHT AT 3,070 FEET RAIL ELEMENT PLATES
CH 8 V-2	RIGHT AT 3,240 FEET RAIL ELEMENT PLATES
CH 8 V-3	RIGHT AT 3,475 FEET RAIL ELEMENT PLATES

LENGTH OF TERMINAL TYPE 6 = 37.5 FEET

CH 8 V-4	RIGHT AT 2933 TRAFFIC BARRIER TERMINAL TY. 6
CH 8 V-5	LEFT AT 2933 TRAFFIC BARRIER TERMINAL TY. 6

LENGTH OF TERMINAL TYPE 1 = 25 FEET

CH 8 V-6	RIGHT AT 3310 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-7	LEFT AT 3,310 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-8	RIGHT AT 3,550 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-9	RIGHT AT 3,910 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-10	RIGHT AT 4,220 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-11	RIGHT AT 4,390 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-12	LEFT AT 4,260 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-13	LEFT AT 4,430 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT
CH 8 V-14	RIGHT AT 7,920 FEET TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	525
RAIL ELEMENT PLATES	EACH	10
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	9
TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
TERMINAL MARKERS	EACH	9
GRADING AND SHAPING SHOULDERS	UNIT	525
AGGREGATE SHOULDERS TYPE B	TON	20
CURB & GUTTER, TYPE B6.12	LIN FT	30
VERTICAL ADJUSTMENT OF GUARDRAIL	LIN FT	220

NOTE: TERMINAL REMOVAL WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR GUARDRAIL REMOVAL.

CH 9-1
REFERENCE: ZERO (0) AT 375 N

ONE LOCATION - RIGHT SIDE ONLY

LENGTH OF TERMINALS = 50 FEET

BEGIN	END	TOTAL LENGTH (FT)
350	675	325
2 TERMINALS		-100
ADJUSTED LENGTH		225

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	325
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	225
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
REFLECTORS	EACH	5
TERMINAL MARKERS	EACH	2
GRADING AND SHAPING SHOULDERS	UNIT	325
AGGREGATE SHOULDERS TYPE B	TON	10

CH 21-1
REFERENCE: ZERO (0) AT THE COUNTY LINE

ONE LOCATION - LEFT SIDE ONLY

LENGTH OF TERMINALS = 50 FEET

BEGIN	END	TOTAL LENGTH (FT)
900	1150	250
2 TERMINALS		-100
ADJUSTED LENGTH		150

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
GUARDRAIL REMOVAL	LIN FT	250
STEEL PLATE BEAM GUARDRAIL TYPE A, 9 FOOT POSTS	LIN FT	150
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
REFLECTORS	EACH	6
TERMINAL MARKERS	EACH	2
GRADING AND SHAPING SHOULDERS	UNIT	250
AGGREGATE SHOULDERS TYPE B	TON	8

CH 21-2 AND 21-3
REFERENCE: ZERO AT COUNTY LINE

BEGINNING AT ±5,300: REPLACE 5 RAIL PANELS ON THE RIGHT SIDE AND 10 RAIL PANELS ON THE LEFT SIDE.

BILL OF MATERIALS FOR THIS LOCATION

ITEM	UNIT	QUANTITY
RAIL ELEMENT PLATES	EACH	15