### STATE OF ILLINOIS

# WINNEBAGO COUNTY HIGHWAY DEPARTMENT

PLANS FOR HIGHWAY SAFETY IMPROVEMENT PROGRAM

# INDEX OF SHEETS

SHEET NO. SHEET NAME COVER SHEET

SUMMARY OF QUANTITIES & GENERAL NOTES

GUARDRAIL LAYOUTS - 1 GUARDRAIL LAYOUTS - 2

#### **STANDARDS**

720011-01

728001-01

729001-01

#### STD. NO. STD. TITLE

B.L.R. 23-3 TRAFFIC BARRIER TERMINAL TYPE 1 TRAFFIC BARRIER TERMINAL TYPE 5A B.L.R. 27-1 STEEL PLATE BEAM GUARDRAIL 630001-09 **GUARDRAIL MOUNTED ON EXISTING CULVERTS** 630101-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 630301-05 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE 701006-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH 701201-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS 701301-04 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED 701501-06 701901-01 TRAFFIC CONTROL DEVICES

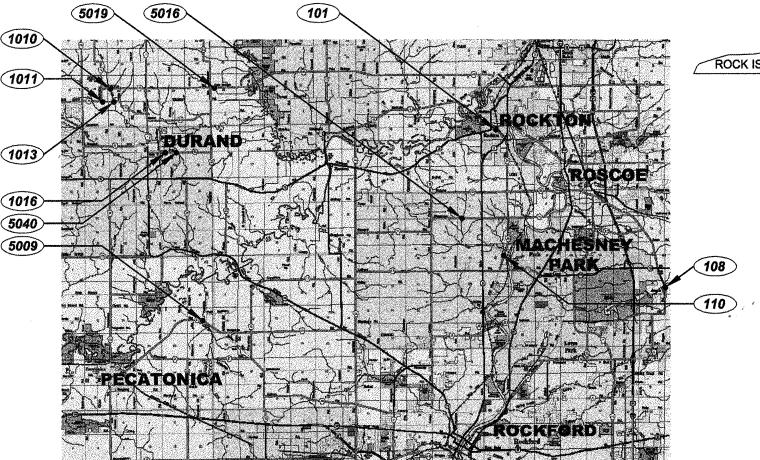
METAL POSTS FOR SIGNS, MARKERS & DELINEATORS

APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

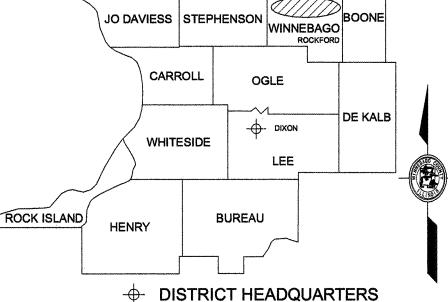
TELESCOPING STEEL SIGN SUPPORT

ROUTE: VARIOUS COUNTY HIGHWAYS SECTION: 10-00473-00-SP PROJECT NO.: HSIP-0201(029)

GUARDRAIL 2011 - COUNTY-WIDE JOB NO.: C-92-035-11 CONTRACT NO.: 85533







PROJECT LOCATIONS

#### SITE LOCATIONS

48 - YALE BRIDGE ROAD

62 - FRITZ ROAD

#### CO. HWY. 64 - OLD RIVER ROAD ROCKTON 25 - ARGYLE ROAD HARLEM 64 - OLD RIVER ROAD OWEN 48 - YALE BRIDGE ROAD 77 - ROCK GROVE ROAD 77 - ROCK GROVE ROAD LAONA 62 - FRITZ ROAD DURAND 28N 10E 21 - TELEGRAPH ROAD PECATONICA 4 27N 10E 71 - GLEASMAN ROAD OWEN 45N 1E 2/11

LAONA

DURAND

29N 11E 31

4 28N 10E 11/14



HESE PLANS PREPARED BY: VINNEBAGO COUNTY HIGHWAY DEPARTMENT
APPROVED 2 16 20 11
Gaenge, le familie of full winnebago county engineer
PASSED
DISTRICT 2 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW FEB 24 20 11 Evic 5. Therefore
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

### CALL J.U.L.I.E.

**BEFORE YOU DIG** 1-800-892-0123

SEE
"SITE LOCATIONS"

SUMMARY OF QUANTITIES:  CONSTRUCTION TYPE CODE: 0021								
Item	Pay Item Number	Pay Item Description	Unit of Measure	Quantity				
1	63000001	STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT POSTS	FOOT	4137.5				
2	63000025	STEEL PLATE BEAM GUARDRAIL, ATTACH TO STR	FOOT	475				
3	LR631020	TRAFFIC BARRIER TERMINAL, TY 1	EACH	7				
4	63100167	TRAFFIC BARRIER TERMINAL, TY 1 (SP) TANGENT	EACH	33				
5	63100075	TRAFFIC BARRIER TERMINAL, TY 5A	EACH	8				
6*	63200310	GUARDRAIL REMOVAL	FOOT	1340				
7	63500105	DELINEATORS	EACH	40				
8	67100100	MOBILIZATION	LSUM	1				
9*	X7010216	TRAFFIC CONTROL AND PROTECTION SPECIAL	LSUM	1				
10	78200410	GUARDRAIL MARKER, TY A	EACH	108				
11	78201000	TERMINAL MARKER, DIRECT APPLIED	EACH	40				

<sup>\*</sup> SEE SPECIAL PROVISIONS

SCHEDULE OF WORK:												THE STATE OF THE S
1. Install SPBGR	112.5	37.5	475	450	150	387.5	250	700	687.5	425	462.5	4137.5
2. Install SPBGR (ATS)		***	****	NAME (C.42)	25		200	100	50	50	50	475
3. Install TBT—TY1	1	2			1		Maria Mais		Janua Villani	1	2	7
4. Install TBT—TY1(SP)TAN	1		4	4	3	4	4	4	4	3	2	33
5. Install TBT—TY5A				4	*****	4	******	STORES VANA	avenu menu	FROM DAMA	Milate Months	8 .
6. Remove GR	180	70	410	210	30	180	260					1340
7. Install Delineator	2	2	4	4	4	4	4	4	4	4	4	40
10. Install GR MRKR, TY A	3		12	12	5	10	10	16	17	11	12	108
11. Install Terminal MRKR, DA	2	2	4	4	4	4	4	4	4	4	4	40

ATS - Attached to Structure

DA - Direct Applied

GR - Guardrail

MRKR - Marker

SPBGR - Steel Plate Beam Guardrail

TBT - Traffic Barrier Terminal



ROUTE VARIOUS

SECTION 10-00473-00-SP SHEET 2 OF 4

GUARDRAIL 2011 - COUNTY-WIDE

## **GENERAL NOTES:**

- 1. GUARDRAIL REMOVAL SHALL INCLUDE DISMANTLING, LOADING, HAULING, DISPOSAL, AND RESTORATION OF THE SITE IN PREPARATION FOR INSTALLATION OF NEW GUARDRAIL.
- 2. PRIOR TO THE COMMENCEMENT OF WORK BY THE CONTRACTOR AT EACH SITE, ALL REQUIRED GRADING OF SHOULDERS, FRONT SLOPES, AND GUARDRAIL TERMINATION POINTS WILL HAVE BEEN COMPLETED BY WINNEBAGO COUNTY. THE FURNISHING OF MATERIALS AND PERFORMANCE OF GRADING IS NOT INCLUDED WITH THE WORK ON THIS CONTRACT.
- 3. THE COST OF REMOVING AND REPLACING EARTH AND SHOULDER MATERIAL NECESSARY FOR INSTALLATION OF STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURE, WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THIS ITEM. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL FIELD CONDITIONS WHICH RELATE TO THIS ITEM AS WELL AS TO ALL ITEMS ASSOCIATED WITH THIS CONTRACT.
- 4. ANY COST ASSOCIATED WITH FURNISHING AND INSTALLING SHORT RADIUS GUARDRAIL AT SITE 108, AS INDICATED IN THE GUARDRAIL LAYOUTS, WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS. THE GUARDRAIL ELEMENT PLATES SHALL BE FACTORY-FABRICATED TO THE INDICATED RADIUS OF CURVATURE OR TO THE RADIUS NECESSARY TO MATCH THE GUARDRAIL CONFIGURATION SPECIFIED BY THE ENGINEER.
- 5. ONCE WORK IS BEGUN ON A CONTINUOUS RUN OF GUARDRAIL, ALL OF THE GUARDRAIL THAT IS REMOVED IN THAT RUN MUST BE REPLACED WITH NEW GUARDRAIL IN THE SAME DAY AND THE NEW GUARDRAIL SHALL BE TEMPORARILY CONNECTED TO ANY REMAINING OLD GUARDRAIL IN A MANNER APPROVED BY THE ENGINEER.
- 6. WORK AREAS SHALL BE LEFT IN SAFE AND ORDERLY CONDITION. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROAD OR SHOULDERS DURING NON-WORKING HOURS.
- 7. ALL GUARDRAIL AND TERMINAL MARKERS SHALL BE INSTALLED IN THE SAME DAY THAT THE GUARDRAIL AND TERMINAL SECTIONS TO WHICH THEY ARE TO BE ATTACHED ARE INSTALLED. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS.
- 8. WHERE GUARDRAIL IS TO BE REMOVED ON BOTH SIDES OF THE ROAD, REPLACEMENT ON ONE SIDE SHALL BE COMPLETE BEFORE REMOVAL ON THE SECOND SIDE SHALL BEGIN.
- 9. AT BRIDGE LOCATIONS, FLAGGERS WILL NOT BE ALLOWED TO STAND ON THE BRIDGE TO PERFORM FLAGGING OPERATIONS. FLAGGERS WILL BE REQUIRED TO OPERATE AT OR NEAR THE BRIDGE APPROACHES IN ORDER TO PROVIDE AN ACCEPTABLE ESCAPE ROUTE.

# **GUARDRAIL LAYOUTS**

#### LEGEND:

ATS - Attached to Structure GR - Guardrail GRMB — Guardrail Marker—Bidirectional (�)
GRMM — Guardrail Marker—Monodirectional (▶)
Install Guardrail (all components)

Remove Guardrail (all components)

SN - Structure Number

SPBGR - Steel Plate Beam Guardrail

SR - Short Radius

TBT - Traffic Barrier Terminal

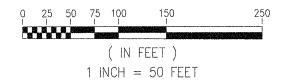
### **GUARDRAIL OFFSETS:**

SITE	DISTANCE	(EDGE	OF	PAVEMENT	ТО	GR	FACE)
101	10'						
108	4'						
110	7'						
1010	3'						
1011	7'N;	3'S					
1013	3'						
1016	5'						
5009	5'N;	4'S					
5016	3'N;	2'S					
5019	3'						
5040	5'						

#### NOTE:

Indicated dimensions are approximate. Layout points are to be determined by the Engineer at the site locations.

#### **GRAPHIC SCALE:**



# SITE 101 - OLD RIVER ROAD (CH 64) 0.25 MI E OF S BLACKHAWK BLVD



SCALE: 1"=50"

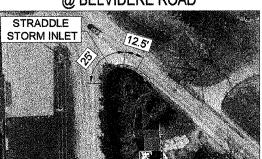
SCALE: 1"=50"

112.5' SPBGR 1 - TBT-TY1

1 - TBT-TY1(SP)TAN

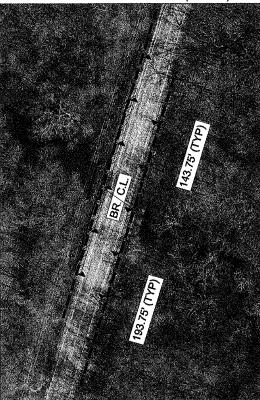
3 - GRMM

SITE 108 - ARGYLE ROAD (CH 25) @ BELVIDERE ROAD



25' SPBGR (15' SR) 12.5' SPBGR (30' SR) 2 - TBT-TY1

SITE 110 - OLD RIVER ROAD (CH 64) 0.62 MI N OF LATHAM ROAD (CH 17)



475' SPBGR 4 - TBT-TY1(SP)TAN 12 - GRMM

SN 101-5042 SCALE: 1"=50"



ROUTE. **VARIOUS** 

SECTION 10-00473-00-SP

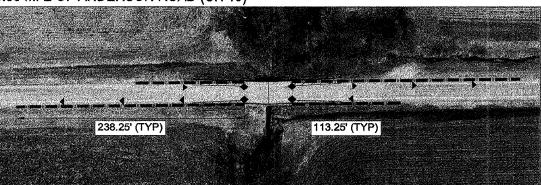
SHEET 3 OF 4

GUARDRAIL 2011 - COUNTY-WIDE

SN 101-3076

SCALE: 1"=50"

SITE 1010 - YALE BRIDGE ROAD (CH 48) 0.30 MI E OF ANDERSON ROAD (CH 19)



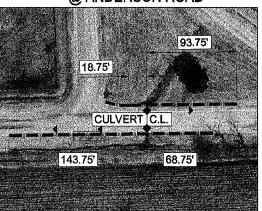
450' SPBGR

4 - TBT-TY1(SP)TAN

4 - TBT-TY5À

4 - GRMB 8 - GRMM

SITE 1011 - ROCK GROVE ROAD (CH 77) @ ANDERSON ROAD



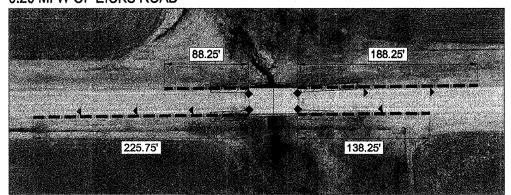
150' SPBGR 25' SPBGR-ATS (CASE I) SCALE: 1"=50'

1 - TBT-TY1

3 - TBT-TY1(SP)TAN

2 - GRMB 3 - GRMM

SITE 1013 - ROCK GROVE ROAD (CH 77) 0.20 MI W OF EICKS ROAD



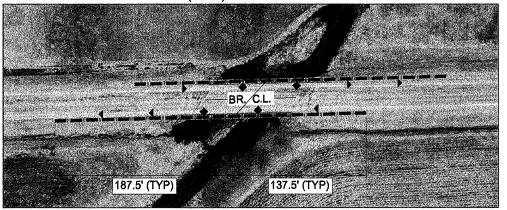
387.5' SPBGR 4 - TBT-TY1(SP)TAN 4 - TBT-TY5A

4 - GRMB 6 - GRMM

SN 101-3073 SCALE: 1"=50"

REV. 2/23/2011 - DLK

# SITE 1016 - FRITZ ROAD (CH 62) 0.70 MI E OF CENTER ROAD (IL 70)

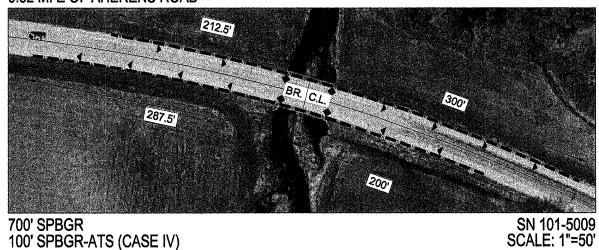


**250' SPBGR** 200' SPBGR-ATS (CASE IV) 4 - TBT-TY1(SP)TAN

SN 101-5039 SCALE: 1"=50'

- 4 GRMB 6 - GRMM

# SITE 5009 - TELEGRAPH ROAD (CH 21) 0.32 MI E OF AHERENS ROAD

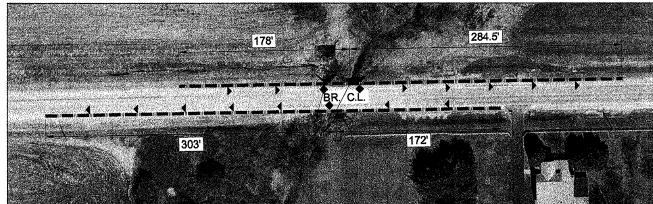


700' SPBGR 100' SPBGR-ATS (CASE IV)

- 4 TBT-TY1(SP)TÀN
- 4 GRMB

12 - GRMM

# SITE 5016 - GLEASMAN ROAD (CH 71) 0.20 MI E OF ROCKTON AVENUE



687.5' SPBGR 50' SPBGR-ATS (CASE IV) 4 - TBT-TY1(SP)TAN 3 - GRMB

14 - GRMM

### **GRAPHIC SCALE:**



ROUTE VARIOUS

SECTION 10-00473-00-SP

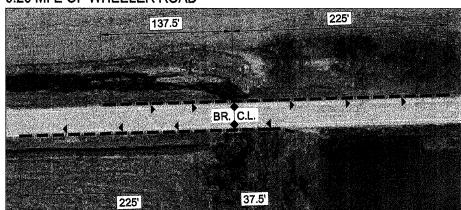
SHEET 4 OF 4

GUARDRAIL 2011 - COUNTY-WIDE

### 0 25 50 75 100 150 ( IN FEET )

1 INCH = 50 FEET

#### SITE 5019 - YALE BRIDGE ROAD (CH 48) 0.20 MI E OF WHEELER ROAD

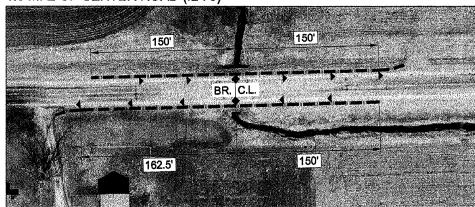


425' SPBGR 50' SPBGR-ATS (CASE IV)

- 1 TBT-TY1
- 3 TBT-TY1(SP)TAN 2 GRMB
- 9 GRMM

SN 101-5019 SCALE: 1"=50'

SITE 5040 - FRITZ ROAD (CH 62) 1.0 MI E OF CENTER ROAD (IL 70)



462.5' SPBGR 50' SPBGR-ATS (CASE IV) 2 - TBT-TY1

2 - TBT-TY1(SP)TAN 2 - GRMB 10 - GRMM

SN 101-5016

SCALE: 1"=50'

SN 101-5040 SCALE: 1"=50'