SUMMARY OF QUANTITIES:

CONSTRUCTION TYPE CODE: 0021

	Item	Pay Item Number	Pay Item Description	Unit of Measure	Quantity
Δ	1	35101400	AGGREGATE BASE COURSE, TY B	TON	6,300
Δ	2	48203029	HMA SHOULDERS, 8"	SY	8,850
	3*	50104000	BRIDGE RAIL REMOVAL	FOOT	225
Δ	4*	60600605	CONCRETE CURB, TY B	FOOT	64
	5	63000001	STEEL PLATE BEAM GUARDRAIL, TY A, 6 FT POSTS	FOOT	6,375
	6	63000030	STRONG POST GUARDRAIL, ATTACH TO STRUCTURE	FOOT	825
	7	63100041	TRAFFIC BARRIER TERMINAL, TY 1B	EACH	1
	8	63100089	TRAFFIC BARRIER TERMINAL, TY 6B	EACH	8
	9	63100167	TRAFFIC BARRIER TERMINAL, TY 1 (SP) TANGENT	EACH	57
	10*	63200310	GUARDRAIL REMOVAL	FOOT	6,287.5
	11	67100100	MOBILIZATION	LSUM	1
	12	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1
Δ	13*	X0327584	GRADING AND SHAPING SHOULDERS, SPECIAL	FOOT	10,000
	14*	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	187.5
	15*	X7010216	TRAFFIC CONTROL & PROTECTION, SPECIAL	LSUM	1

* SEE SPECIAL PROVISIONS A SPECIALTY ITEMS

SCHEDULE OF WORK:			100	10	7× /2	12/	10	12	100	10 10 m	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
1. Install ABC, TYB		580	760	335	465	425	160	425	1,240	500	510	670	85		145	6,300
2. Install HMA Shoulders		870	1,140	500	700	640		640	1,850	750	760	1,000				8,850
3. Remove BR							225									225
4. Install CONC CURB, TYB					64											64
5. Install SPBGR	37.5	500	725	287.5	312.5	312.5	362.5	287.5	1,775	212.5	225	600	50	337.5	375	6,375
6. Install SPGR—ATS	25	25	50		50		225	25		25		75	125	75	125	825
7. Install TBT—TY1B										1						1
8. Install TBT—TY6B										4	4					8
9. Install TBT-TY1(SP)TAN	2	4	4	2	4	4	4	4	6	3	4	4	4	4	4	57
10. Remove GR	100	625	750	200	412.5	375		275	1,650		337.5	625	125	712.5	100	6,287.5
13. Grade & Shape Shid., SP		780	1,100	465	590	590	690	565	2,150	665	650	875	330		650	10,000
14. Install SPBGR—SR							50			37.5				75		187.5

ABC - Aggregate Base Course ATS — Attached to Structure

BR - Bridge Rail

DA - Direct Applied DEL — Delineator GR - Guardrail

MRKR - Marker

SP - Special SPBGR - Steel Plate Beam Guardrail SPBGR-SR - Steel Plate Beam Guardrail (Short Radius) TBT - Traffic Barrier Terminal

WCHD - Winnebago County Highway Department

GENERAL NOTES:

ROUTE **VARIOUS**

SECTION 17-00637-00-GR

SHEET 2 OF 6

GUARDRAIL HSIP - COUNTY-WIDE

- 1. GUARDRAIL REMOVAL SHALL INCLUDE DISMANTLING, DISPOSAL AND RESTORATION OF THE SITE IN PREPARATION FOR INSTALLATION OF NEW GUARDRAIL.
- 2. PRIOR TO THE COMMENCEMENT OF WORK BY THE CONTRACTOR, ALL REQUIRED TREE REMOVAL AT WCHD SN 07-01 WILL BE COMPLETED BY WINNEBAGO COUNTY. TREE REMOVAL IS NOT INCLUDED IN 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. ALL COST ASSOCIATED WITH FURNISHING AND INSTALLING SHORT RADIUS GUARDRAIL, AS INDICATED IN THE GUARDRAIL LAYOUTS AT WCHD SN 48-35, 71A-29 AND 88-04, SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS). 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.
- ANY COST ASSOCIATED WITH FURNISHING AND INSTALLING SHORTER OR LONGER POSTS FOR THE GUARDRAIL ATTACHED TO STRUCTURES WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STRONG POST GUARDRAIL, ATTACHED TO STRUCTURES.
- ONCE WORK HAS 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.
- 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.
- 8. ALL GUARDRAIL AND TERMINAL MARKERS SHALL BE INSTALLED IN THE SAME DAY THE GUARDRAIL AND TERMINAL SECTIONS TO WHICH THEY ARE TO BE ATTACHED ARE INSTALLED. GUARDRAIL MARKERS SHALL NOT BE ATTACHED TO TERMINAL SECTIONS. ALL GUARDRAIL DELINEATORS MUST BE INSTALLED IN THE SAME DAY AS THEIR CORRESPONDING GUARDRAIL AND TERMINAL SECTIONS. GUARDRAIL MARKERS, TERMINAL MARKERS AND GUARDRAIL DELINEATORS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR STEEL PLATE BEAM GUARDRAIL AND THE APPROPRIATE TRAFFIC BARRIER TERMINALS.
- 9. 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.
- 10. HOLES REMAINING AT LOCATIONS WHERE GUARDRAIL POSTS ARE PULLED OR CUT OFF (AT LEAST 6 INCHES BELOW THE GROUND SURFACE) SHALL BE FILLED IN LAYERS WITH GRANULAR MATERIAL AND TAMPED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR GUARDRAIL REMOVAL.
- 11. 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.
- 12. AT ALL GUARDRAIL LOCATIONS THE LIMITS FOR GRADING & SHAPING SHOULDERS, SPECIAL SHALL INCLUDE THE ENTIRE "INSTALL GUARDRAIL (ALL COMPONENTS)" LIMIT AND AN ADDITIONAL THIRTY-FIVE (35) FEET AT BOTH ENDS OF THE GUARDRAIL AS DETAILED IN THE GUARDRAIL LAYOUTS.