

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0013

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
20400800	FURNISHED EXCAVATION	CU YD	1,736
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	10,698
25100630	EROSION CONTROL BLANKET	SQ YD	10,698
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200
28000305	TEMPORARY DITCH CHECKS	FOOT	24
28000400	PERIMETER EROSION BARRIER	FOOT	1,975
28000500	INLET AND PIPE PROTECTION	EACH	9
* 30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	4,077
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	346
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7,189
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	719
40603005	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N70	TON	1,969
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "D", N70	TON	358
40701941	HOT-MIX ASPHALT PAVEMENT, (FULL-DEPTH), 13"	SQ YD	3,194
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	40

△ INDICATES SPECIALITY ITEM
* INDICATES SPECIAL PROVISION

PAY CODE	PAY ITEM	UNIT	TOTAL QUANTITY
	NAME		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	349
44000100	PAVEMENT REMOVAL	SQ YD	3,418
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,366
44003100	MEDIAN REMOVAL	SQ FT	6,516
50102400	CONCRETE REMOVAL	CU YD	639.5
50104000	BRIDGE RAIL REMOVAL	FOOT	493
50157300	PROTECTIVE SHIELD	SQ YD	1,493
* 50200100	STRUCTURE EXCAVATION	CU YD	1,067
50300225	CONCRETE STRUCTURES	CU YD	271.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	676.8
50300260	BRIDGE DECK GROOVING	SQ YD	2,036
50300300	PROTECTIVE COAT	SQ YD	2,558
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	190.2
* 50500305	ERECTING STRUCTURAL STEEL	L SUM	1

△ INDICATES SPECIALITY ITEM
* INDICATES SPECIAL PROVISION



DESIGNED - TBS	REVISED - △ 2-17-2021 DLB
CHECKED - LGN	REVISED -
DRAWN - GBG	REVISED -
CHECKED - LGN	REVISED -

WINNEBAGO COUNTY
F.A.P. 0412 (ALPINE RD) OVER FOREST HILLS RD
STATION 504+16.50

SUMMARY OF QUANTITIES
STRUCTURE NO. 101-3068

SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	16-00620-00-BR	WINNEBAGO	109	3
WHA* 1017017		CONTRACT NO. 85704		
ILLINOIS FED. AID PROJECT 7K291857				

FILED - PLOTTED

DATE

FILED - PLOTTED

** ALPINE ROAD SUPERELEVATION RATES			
STATION	LEFT SUPER	RIGHT SUPER	REMARKS
506+21.03	-1.56%	-1.56%	NORMAL CROWN
506+56.03	-1.56%	0.00%	
506+91.03	-1.56%	+1.56%	FULL SUPER
507+45.03	-4.00%	+4.00%	MAX SUPER
508+55.00	-4.00%	+4.00%	MATCH EXISTING

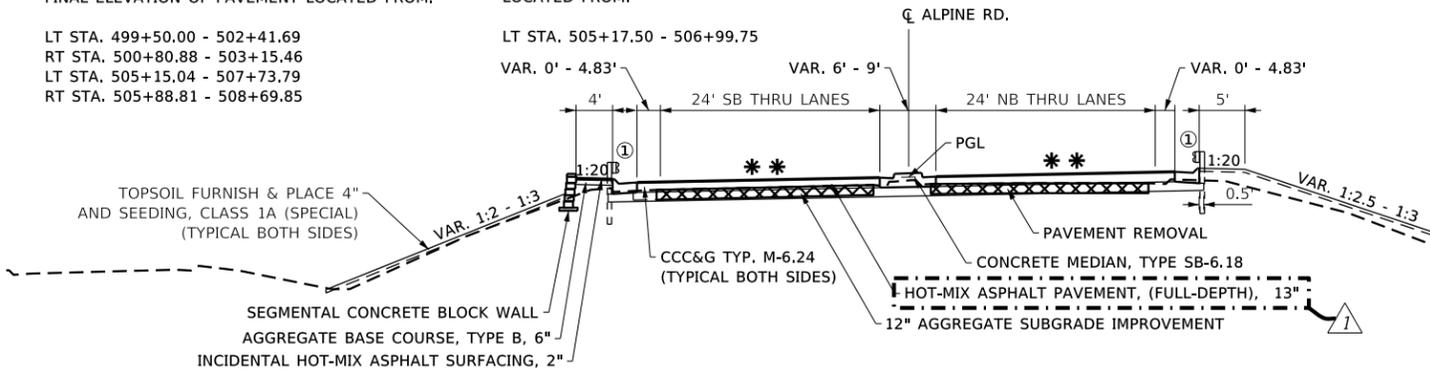
PC 507+14.03
PT 512+79.11

① GUARDRAIL SHALL BE INSTALL BASED ON FINAL ELEVATION OF PAVEMENT LOCATED FROM:

LT STA. 499+50.00 - 502+41.69
RT STA. 500+80.88 - 503+15.46
LT STA. 505+15.04 - 507+73.79
RT STA. 505+88.81 - 508+69.85

② SEGMENTAL CONCRETE BLOCK WALL LOCATED FROM:

LT STA. 505+17.50 - 506+99.75
VAR. 0' - 4.83'

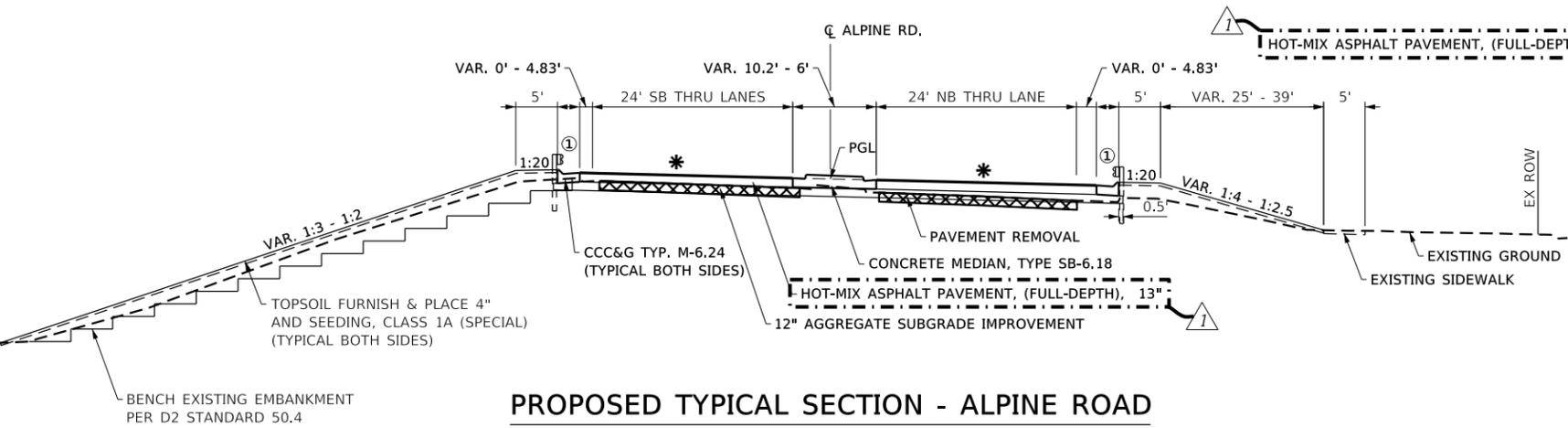


PROPOSED TYPICAL SECTION - ALPINE ROAD

STA. 505+40.92 - STA. 508+55.00

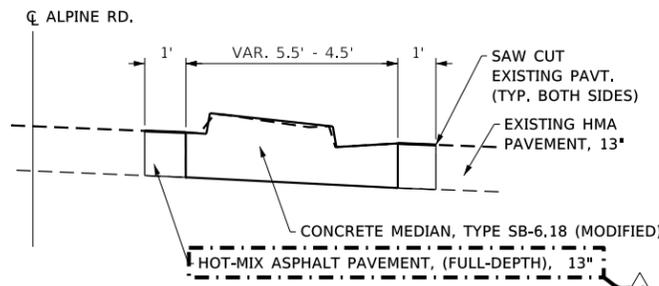
* ALPINE ROAD SUPERELEVATION RATES			
STATION	LEFT SUPER	RIGHT SUPER	REMARKS
499+50.00	+4.00%	-4.00%	MATCH EXISTING
501+76.12	+4.00%	-4.00%	MAX SUPER
502+30.12	+1.56%	-1.56%	FULL SUPER
502+65.12	0.00%	-1.56%	
503+00.12	-1.56%	-1.56%	NORMAL CROWN

PC 496+87.36
PT 502+38.12



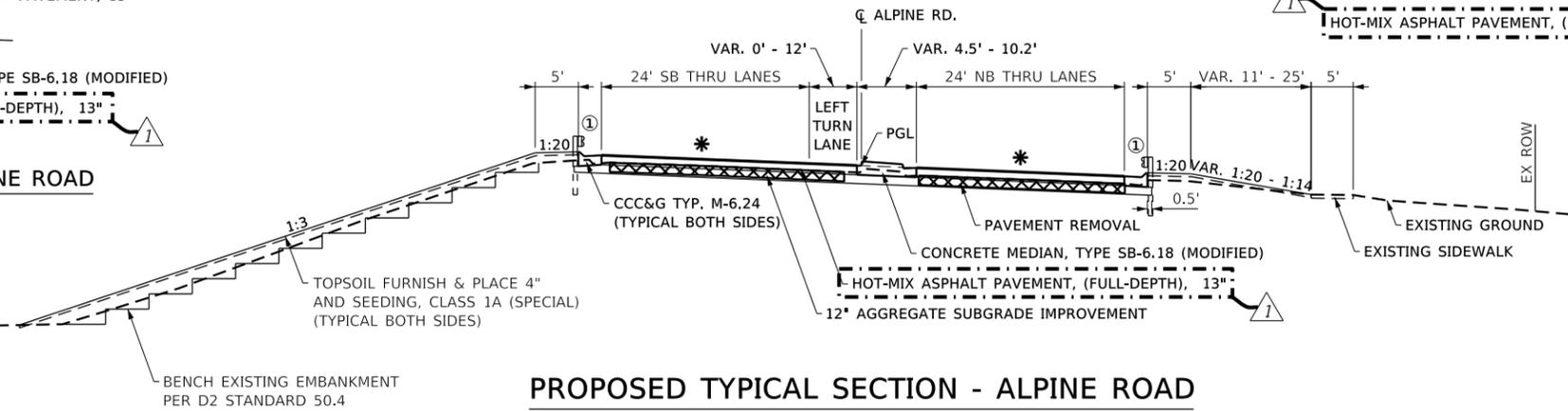
PROPOSED TYPICAL SECTION - ALPINE ROAD

STA. 501+44.00 - STA. 502+89.58
(BRIGE OMITTED STA. 502+89.58 - 505+40.92)



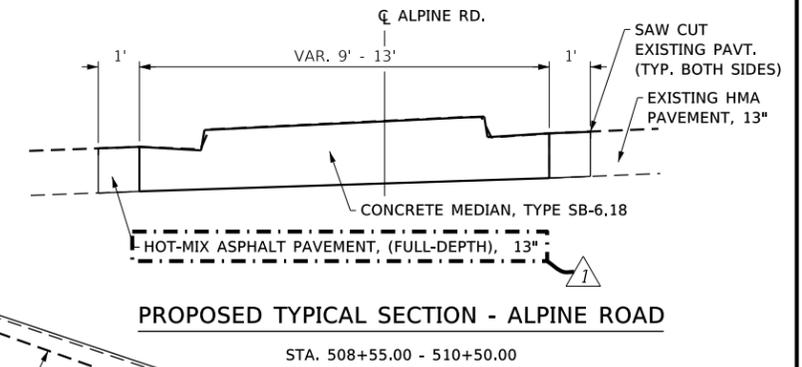
PROPOSED TYPICAL SECTION - ALPINE ROAD

STA. 499+00.00 - 499+50.00



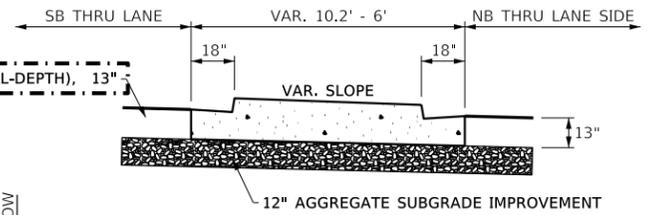
PROPOSED TYPICAL SECTION - ALPINE ROAD

STA. 499+50.00 - STA. 501+44.00

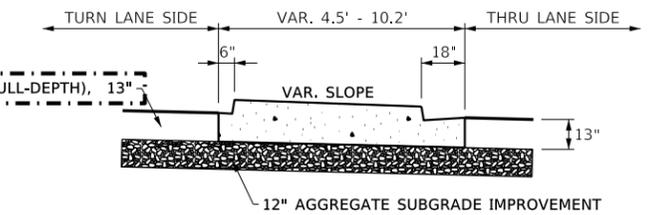


PROPOSED TYPICAL SECTION - ALPINE ROAD

STA. 508+55.00 - 510+50.00



CONCRETE MEDIAN TYPE SB-6.18 DETAIL



CONCRETE MEDIAN TYPE SB-6.18 (MODIFIED) DETAIL



DESIGNED - LGN	REVISED - 2-17-2021 DLB
CHECKED - GFS	REVISED -
DRAWN - TBS	REVISED -
CHECKED - LGN	REVISED -

WINNEBAGO COUNTY
F.A.P. 0412 (ALPINE RD) OVER FOREST HILLS RD
STATION 504+16.50

TYPICAL SECTIONS
STRUCTURE NO. 101-3068
SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE. 412	SECTION 16-00620-00-BR	COUNTY WINNEBAGO	TOTAL SHEETS 109	SHEET NO. 7
WHA# 1017D17		CONTRACT NO. 85704		
ILLINOIS FED. AID PROJECT 7K29(857)				

This document is the copyrighted property of Willett, Hofmann & Associates, Inc., and may not be copied or used by any person without written permission. © Copyright 2021 Willett, Hofmann & Associates, Inc.

PRINT: ORGANIZER.BM.plt.ctb 2/17/2021 3:37:16 PM - PLOTTED

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION 20200100 (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTH BALANCE WASTE (+) OR FURNISHED EXCAVATION (-) 20400800 (CU YD)
ALPINE ROAD	813	610	2,346	-1,736
TOTALS	813	610	2,346	-1,736

SCHEDULE OF QUANTITIES

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+94	367	
RT 499+50 - 504+60	507	
LT 503+66 - 508+55	485	
RT 505+08 - 506+95	247	
RT 507+04 - 509+00	369	
PROJECT TOTAL	1,975	

28000400

BITUMINOUS MATERIALS (PRIME COAT)

STATION	POUND	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+13	2,053	0.25 LB/SF 1 APP ON AGG
RT 499+50 - 502+55	1,888	0.25 LB/SF 1 APP ON AGG
LT 505+76 - 508+55	1,726	0.25 LB/SF 1 APP ON AGG
RT 506+18 - 508+55	1,522	0.25 LB/SF 1 APP ON AGG
PROJECT TOTAL	7,189	

40600275

TOPSOIL FURNISH AND PLACE, 4"

STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 503+25	2,563	
RT 499+50 - 504+60	1,659	
LT 503+66 - 508+55	1,583	
RT 505+08 - 5089+00	4,893	
PROJECT TOTAL	10,698	

21101615

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 498+54	1	
LT 498+64	1	
LT 501+49	1	
RT 501+50	1	
RT 506+69	1	
RT 506+75	1	
LT 506+76	1	
LT 508+40	1	
RT 508+40	1	
PROJECT TOTAL	9	

28000500

BITUMINOUS MATERIALS (TACK COAT)

STATION	POUND	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+13	205	0.025 LB/SF 1 APP ON BIT
RT 499+50 - 502+55	189	0.025 LB/SF 1 APP ON BIT
LT 505+76 - 508+55	173	0.025 LB/SF 1 APP ON BIT
RT 506+18 - 508+55	152	0.025 LB/SF 1 APP ON BIT
PROJECT TOTAL	719	

40600290

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
F.A.U. 412 (ALPINE ROAD)		
ENTIRE PROJECT	200	100 LBS. / ACRE
PROJECT TOTAL	200	

28000250

AGGREGATE SUBGRADE IMPROVEMENT 12"

STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT & RT 499+50 - 502+55	2,215	
LT & RT 505+76 - 508+55	1,862	
PROJECT TOTAL	4,077	

30300112*

**HOT-MIX ASPHALT PAVEMENT,
(FULL-DEPTH), 13"**

STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+13	912	13 INCH
RT 499+50 - 502+55	839	13 INCH
LT 505+76 - 508+55	767	13 INCH
RT 506+18 - 508+55	676	13 INCH
PROJECT TOTAL	3,194	

40701941

EROSION CONTROL BLANKET

STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 503+25	2,563	
RT 499+50 - 504+60	1,659	
LT 503+66 - 508+55	1,583	
RT 505+08 - 5089+00	4,893	
PROJECT TOTAL	10,698	

25100630

AGGREGATE BASE COURSE, TYPE B 6"

STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
RT 499+00 - 499+50	44	CONC. MEDIAN, TYPE SB-6.18 (MODIFIED)
LT + RT 508+55 - 510+50	302	CONCRETE MEDIAN, TYPE SB-6.18
PROJECT TOTAL	346	

35101800

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 505+00	6	
LT 506+00	6	
LT 507+00	6	
LT 508+00	6	
PROJECT TOTAL	24	

28000305

FILE = S:\PROJECTS\2017\1077017-WHICH\DESIGN\CAD SHEETS\1077017-Schedule.dgn



DESIGNED - TBS
 CHECKED - LGN
 DRAWN - GFS
 CHECKED - LGN
 REVISED - Δ 2-17-2021 DLB
 REVISED -
 REVISED -
 REVISED -

WINNEBAGO COUNTY
F.A.P. 0412 (ALPINE RD) OVER FOREST HILLS RD
STATION 504+16.50

SCHEDULE OF QUANTITIES
STRUCTURE NO. 101-3068
 SHEET NO. 1 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	16-00620-00-BR	WINNEBAGO	109	8
WHA# 1017017		CONTRACT NO. 85704		
ILLINOIS FED. AID PROJECT 7K29(857)				

This document is the copyrighted property of Willett-Hofmann & Associates, Inc., and may not be copied or used by any person without written permission. © Copyright 2019 Willett-Hofmann & Associates, Inc.

SCHEDULE OF QUANTITIES

INCIDENTAL HOT-MIX ASPHALT SURFACING		
STATION	TON	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+00 - 499+50	8	13 INCH
LT 508+55 - 510+50	16	13 INCH
RT 508+55 - 510+50	16	13 INCH
PROJECT TOTAL		40
40800050		

MEDIAN REMOVAL		
STATION	SQ FT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
499+00 - 502+71	2,309	
505+59 - 510+50	4,207	
PROJECT TOTAL		6,516
44003100		

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24		
STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 500+73	125	
RT 499+50 - 501+44	191	
LT 500+73 - 501+97	125	
RT 501+44 - 504+70	125	
LT 501+97 - 502+24	27	
RT 504+70 - 504+99	29	
LT 505+31 - 505+61	29	
RT 506+08 - 506+34	27	
LT 505+61 - 506+86	125	
RT 506+34 - 507+59	125	
LT 506+86 - 508+55	168	
RT 507+59 - 508+55	97	
PROJECT TOTAL		1,193
60610400		

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB		
STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 502+13 - 502+58	92	
RT 502+55 - 502+96	82	
LT 505+34 - 505+76	83	
RT 505+73 - 506+18	92	
PROJECT TOTAL		349
42000070		

CONCRETE COLLAR		
STATION	CU YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 501+49	0.43	
RT 506+75	0.43	
PROJECT TOTAL		0.86
54248510		

CONCRETE MEDIAN, TYPE SB-6.18		
STATION	SQ FT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT & RT 501+44 - 502+61	922	
LT & RT 505+69 - 510+50	4,091	
PROJECT TOTAL		5,013
60619910		

PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+67	977	
RT 499+50 - 503+00	885	
LT 505+30 - 508+55	821	
RT 505+64 - 508+55	735	
PROJECT TOTAL		3,418
44000100		

STORM SEWERS, CLASS A, TYPE 1 12"		
STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 501+49	6	
RT 506+75	6	
PROJECT TOTAL		12
550A0050		

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+00	250	
RT 501+31 - 502+70	137.5	
LT 505+58 - 507+23	162.5	
RT 506+31 - 508+20	187.5	
PROJECT TOTAL		737.5
63000001		

COMBINATION CURB AND GUTTER REMOVAL		
STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 502+58	308	
RT 499+50 - 503+24	374	
LT 505+07 - 508+55	348	
RT 505+73 - 508+55	282	
RT 506+47 - 506+90	54	FOREST HILLS ROAD
PROJECT TOTAL		1,366
44000500		

INLETS TO BE ADJUSTED		
STATION	EACH	REMARKS
F.A.U. 412 (ALPINE ROAD)		
30' LT 508+40	1	
2' RT 508+40	1	
PROJECT TOTAL		2
60260100		

TRAFFIC BARRIER TERMINAL, TYPE 6		
STATION	EACH	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 502+00 - 502+40	1	
RT 502+70 - 503+10	1	
LT 504+18 - 505+58	1	
RT 505+91 - 506+31	1	
PROJECT TOTAL		4
63000001		

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18		
STATION	FOOT	REMARKS
F.A.U. 412 (ALPINE ROAD)		
LT 499+50 - 500+73	54	FOREST HILLS ROAD
PROJECT TOTAL		54
60609800		

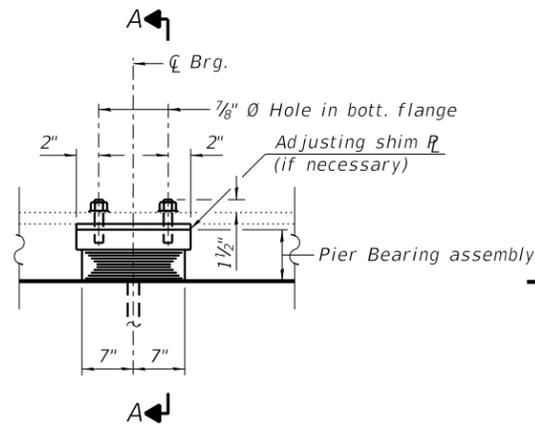


DESIGNED - TBS	REVISED - 2-12-2021 LGN
CHECKED - LGN	REVISED -
DRAWN - GFS	REVISED -
CHECKED - LGN	REVISED -

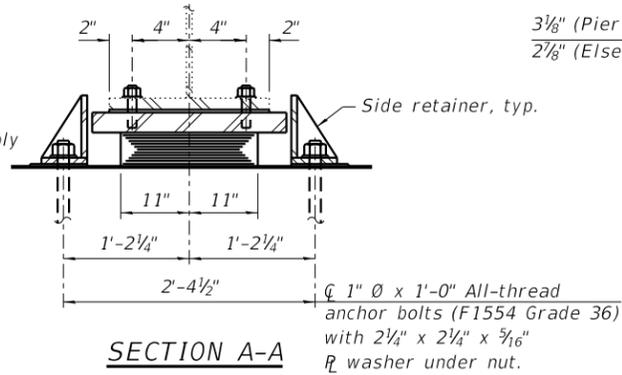
WINNEBAGO COUNTY
F.A.P. 0412 (ALPINE RD) OVER FOREST HILLS RD
STATION 504+16.50

SCHEDULE OF QUANTITIES
STRUCTURE NO. 101-3068
SHEET NO. 2 OF 4 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	16-00620-00-BR	WINNEBAGO	109	9
WHA# 1017017		CONTRACT NO. 85704		
ILLINOIS FED. AID PROJECT 7K29(857)				

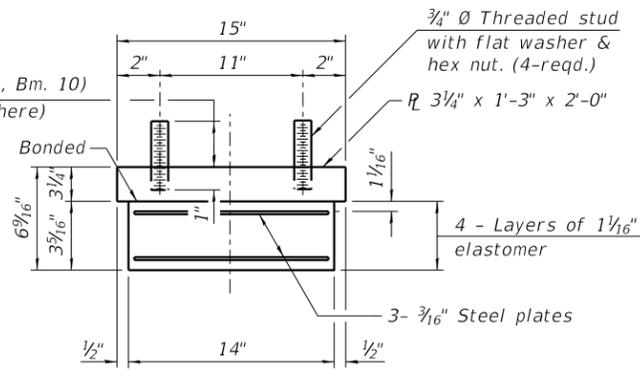


ELEVATION AT PIERS



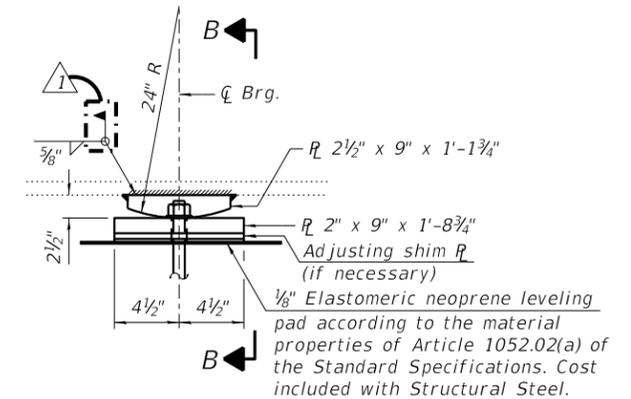
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG. - PIER #1 & PIER #3

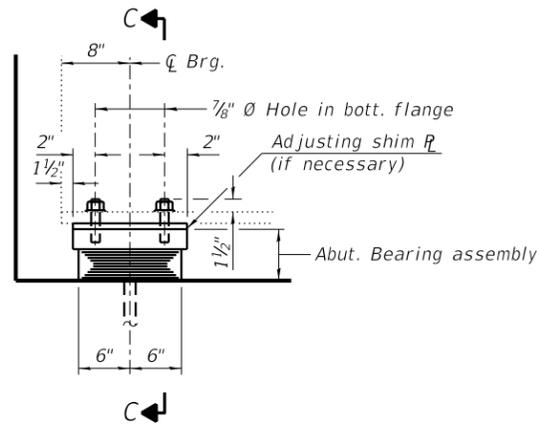


PIER BEARING ASSEMBLY

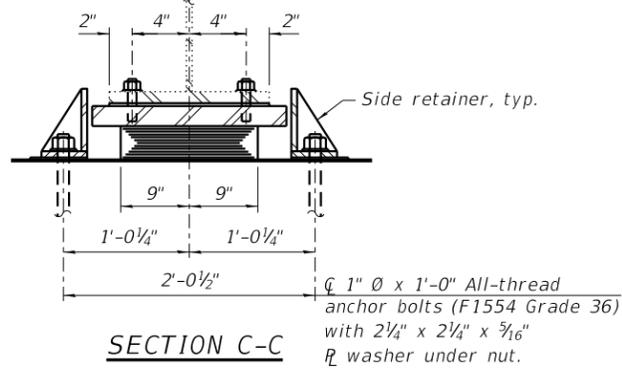
Shim plates shall not be placed under bearing assembly.



ELEVATION AT PIER

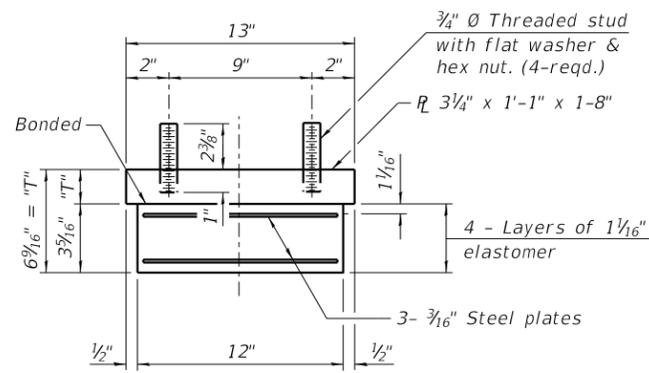


ELEVATION AT ABUT.



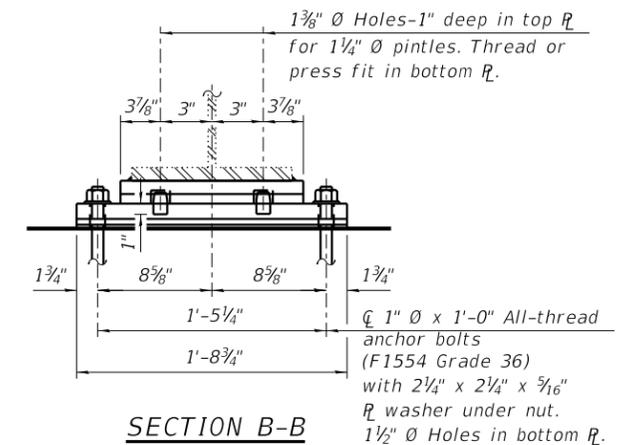
SECTION C-C

TYPE I ELASTOMERIC EXP. BRG. - SOUTH & NORTH ABUT.



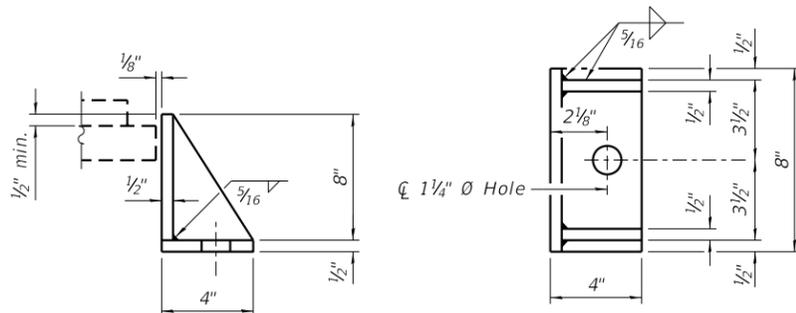
ABUTMENT BEARING ASSEMBLY

Shim plates shall not be placed under bearing assembly.



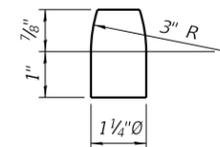
SECTION B-B

FIXED BEARING - PIER #2



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



PINTLE

NOTES:

Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.

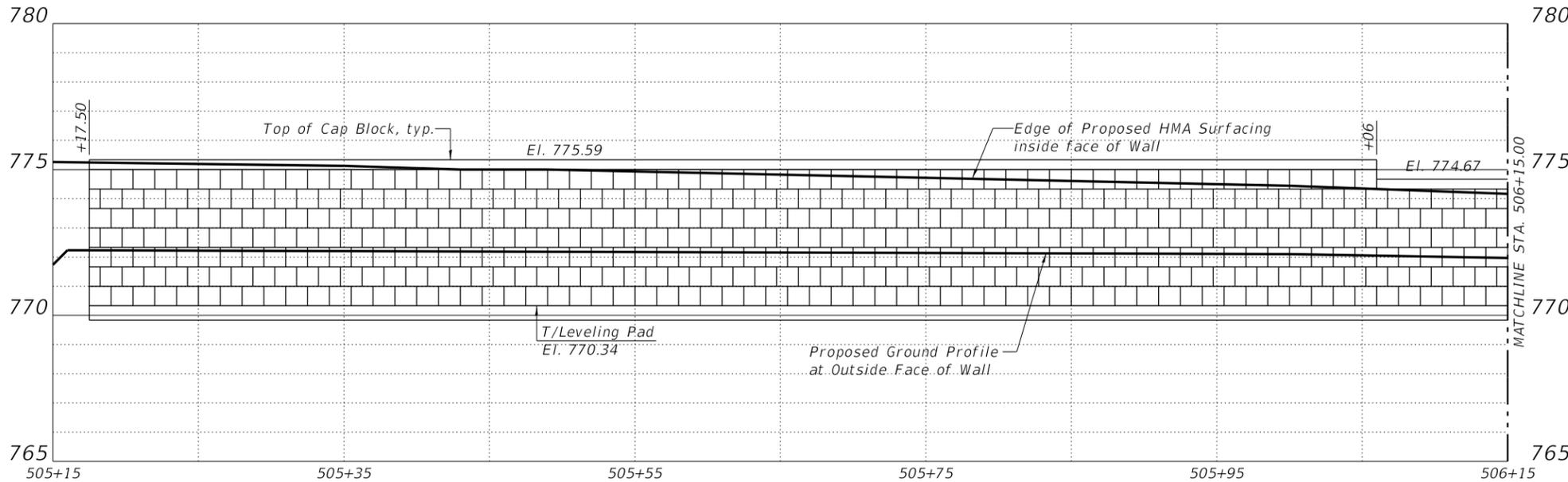
Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

TABLE - ABUT. TOP PLATE THICKNESS

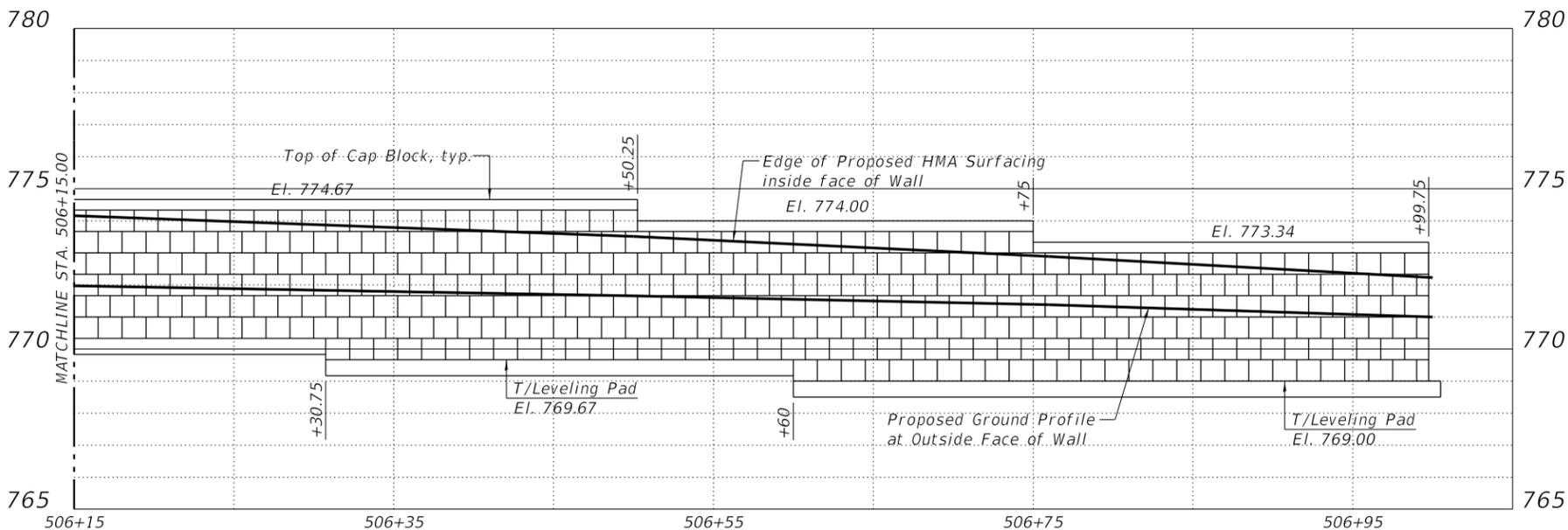
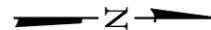
Location	Thickness "T" (in.)
S. Abut., Beam 5 & 8	3 1/2"
S. Abut., Beam 7	3 7/8"
All other locations	3 1/4"

BILL OF MATERIAL

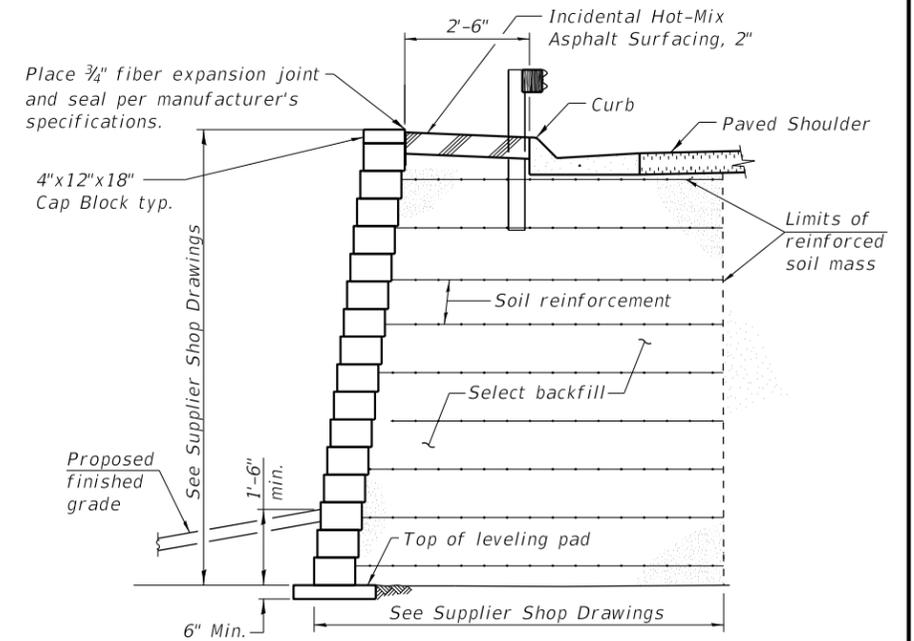
Item	Unit	Total
Furnishing and Erecting Structural Steel	Pound	2,004
Elastomeric Bearing Assembly Type I	Each	40
Anchor Bolts, 1"	Each	100



**SEGMENTAL CONCRETE BLOCK WALL
STA. 505+17.50 TO 506+15.00**

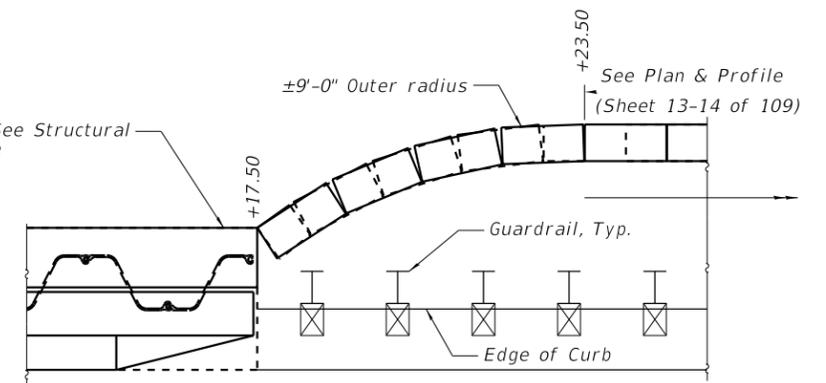


**SEGMENTAL CONCRETE BLOCK WALL
STA. 506+15.00 TO 506+99.75**



**SECTION THRU
BLOCK WALL**

Abutment Wingwall, See Structural Sheet 28 & 30 of 63



PLAN VIEW AT ABUTMENT

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	76
Segmental Concrete Block Wall	Sq. Ft.	894

NOTES:

- Contractor shall verify all elevations, dimensions and manufacturer's specifications prior to constructing wall.
- The style of the Segmental Concrete Block Wall shall coordinate with the form liner and color of the bridge parapet.
- All Segmental Concrete Block Wall Details shown in these plans are conceptual and are to be used for estimating purposes only. Actual details will depend on the Proposed Wall System submitted by the Contractor. Details for Wall Curves, Pipe Penetrations, Drainage Structures and other miscellaneous details shall be provided by the Wall Supplier.