

AS-BUILT PLAN

LAX APRIL 2016

PROJECT ID: 7010-01-61

COUNTY: JUNEAU

ORDER OF SHEETS

Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
Section No. 4	Right of Way Plat
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 194

CHANGED PLAN SHEET LIST:

1	4	5	7	10	33
34	49	50	51	69	87

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

TOMAH - NECEDAH

W COUNTY LINE TO SHERIDAN AVENUE

STH 21
JUNEAU COUNTY

STATE PROJECT NUMBER
7010-01-61

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7010-01-61	WISC 2016127	1

PRIME CONTRACTOR: DL GASSER CONSTRUCTION

SUB-CONTRACTORS:
AUGELLI CONCRETE & EXCAVATING, LLC.
CENTURY FENCE COMPANY
FAHRNER ASPHALT SEALERS, LLC.
FENCING PLUS INC.
GERKE EXCAVATING INC.
HARD ROCK SAWING & DRILLING SPECIALIST CO.
MEGARENTALS, INC.
SURF PREP, INC.
THE KRAEMER COMPANY, LLC.
TNT PROFESSIONAL LAND SURVEYORS, INC.

PROJECT LEADER: MARK WITTENBERG
PROJECT MANAGER: TONY VANDERWIELEN
PROJECT SUPERVISOR: JOE GREGAS

BEGIN DATE: 07/05/2016
WORK COMPLETED: 10/07/2016

END PROJECT 7010-01-61
STA 643+00
X = 463062.68
Y = 240001.44

DESIGN DESIGNATION

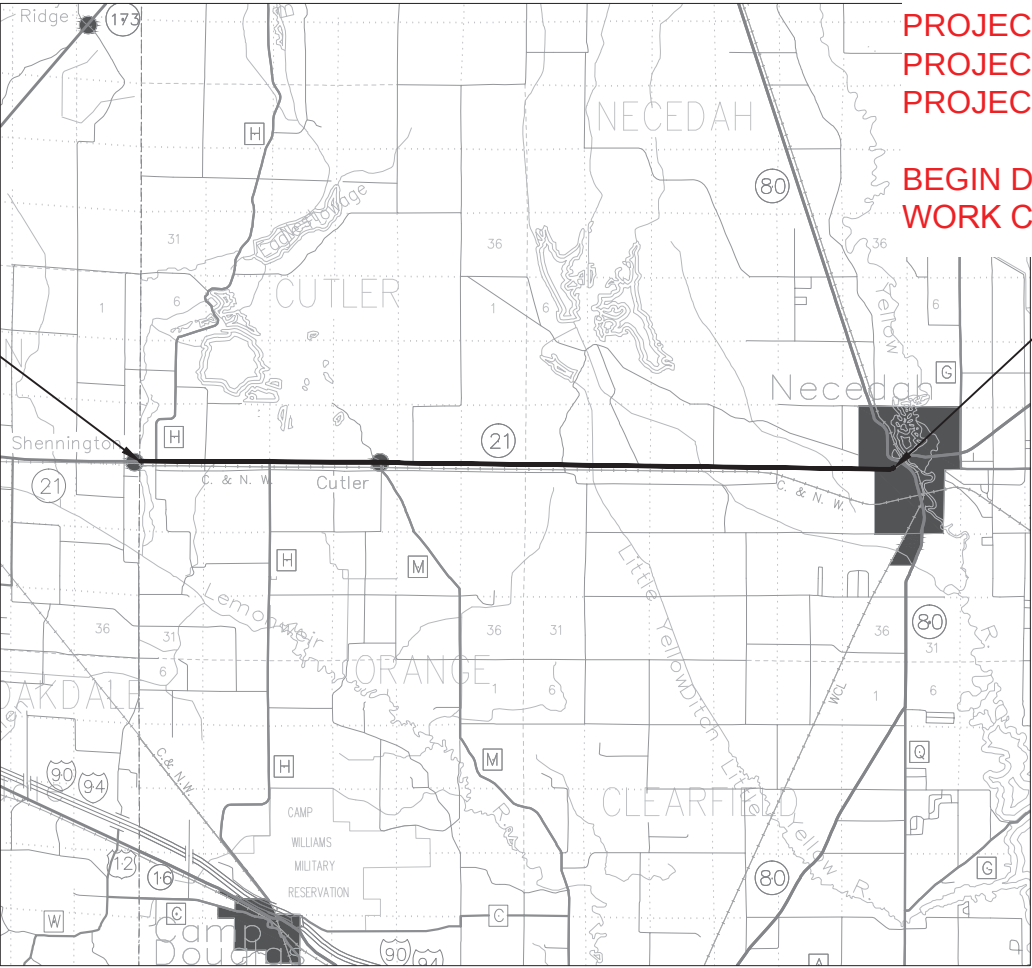
A.A.D.T.	2015	=	4200
A.A.D.T.	2035	=	5000
D.H.V.		=	869
D.D.		=	62/38
T.		=	25.8
DESIGN SPEED		=	60 MPH
ESALS		=	3,500,000

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

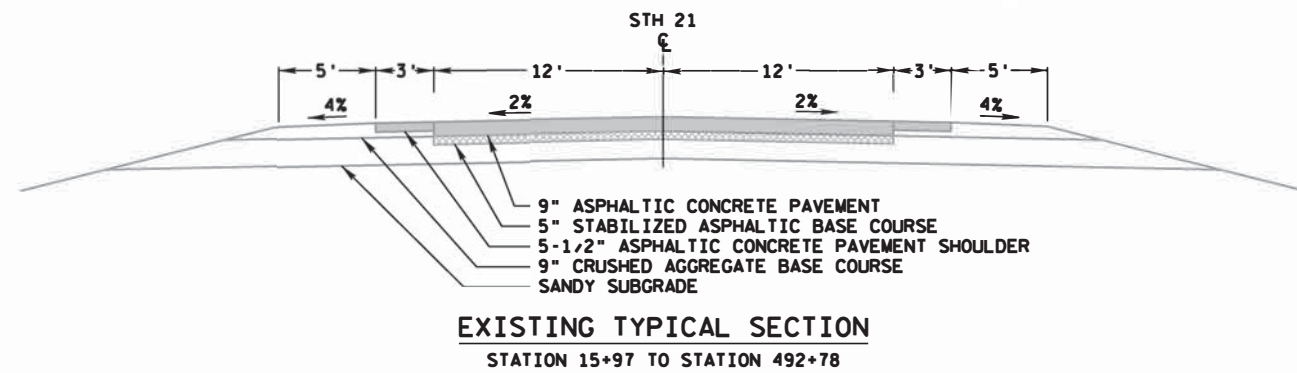
BEGIN PROJECT 7010-01-61
STA 15+97
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Y = 240425.28



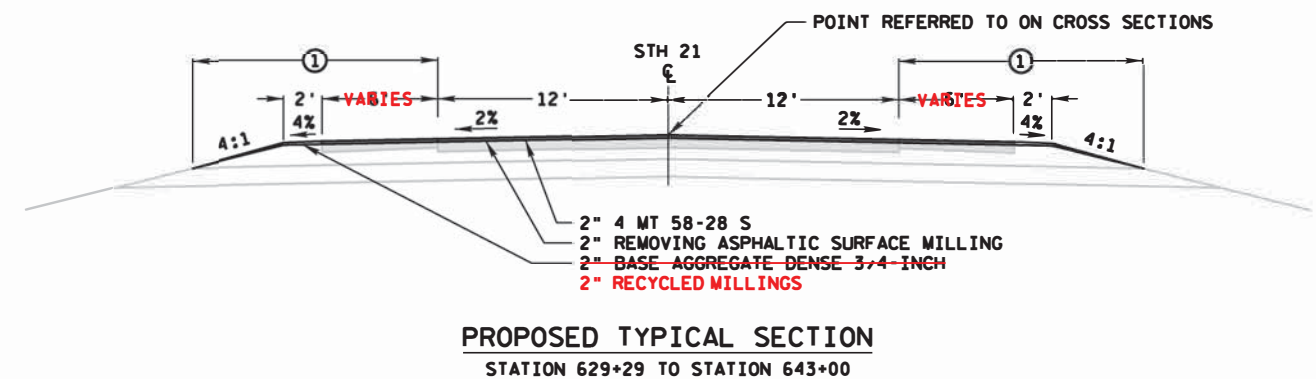
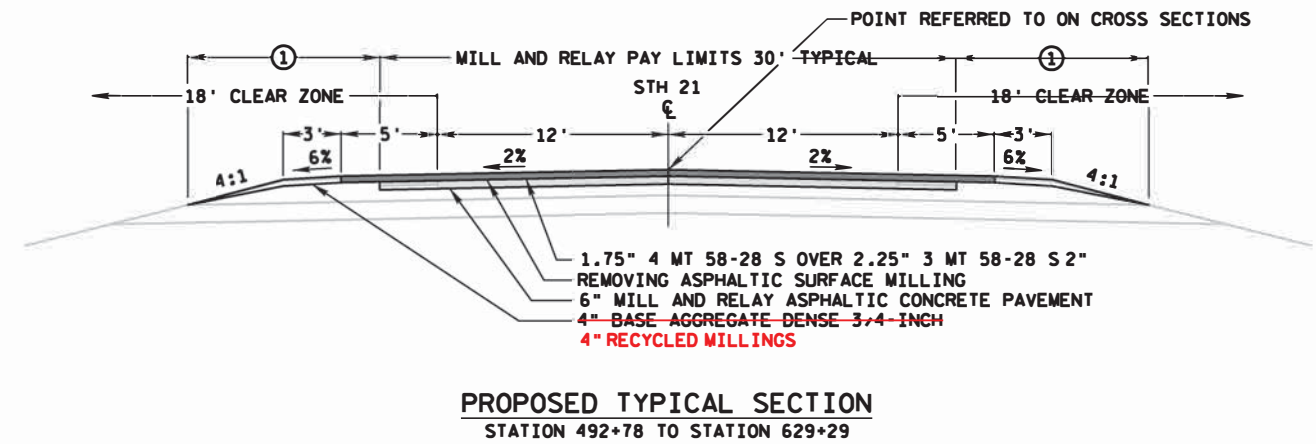
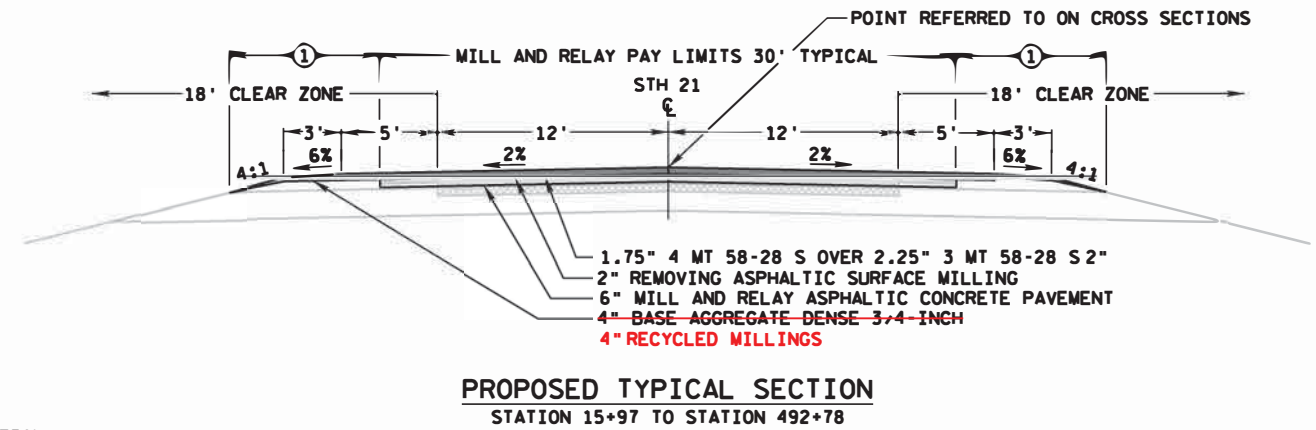
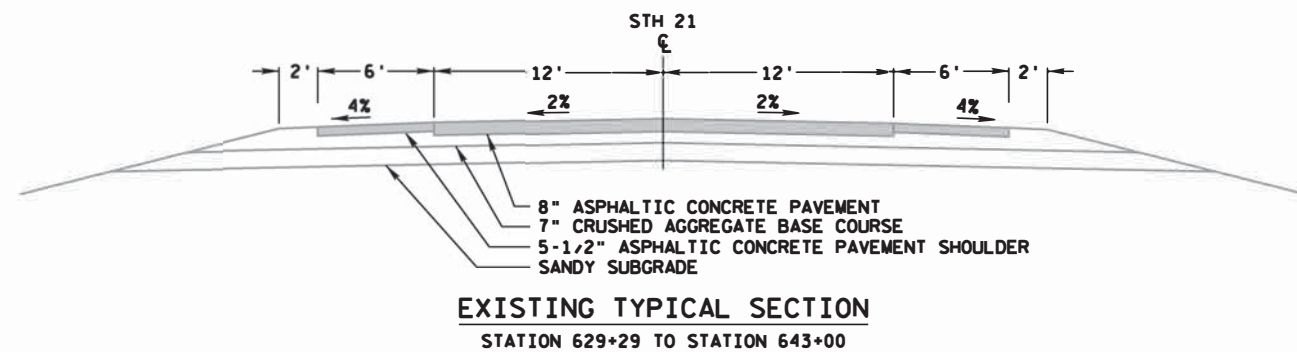
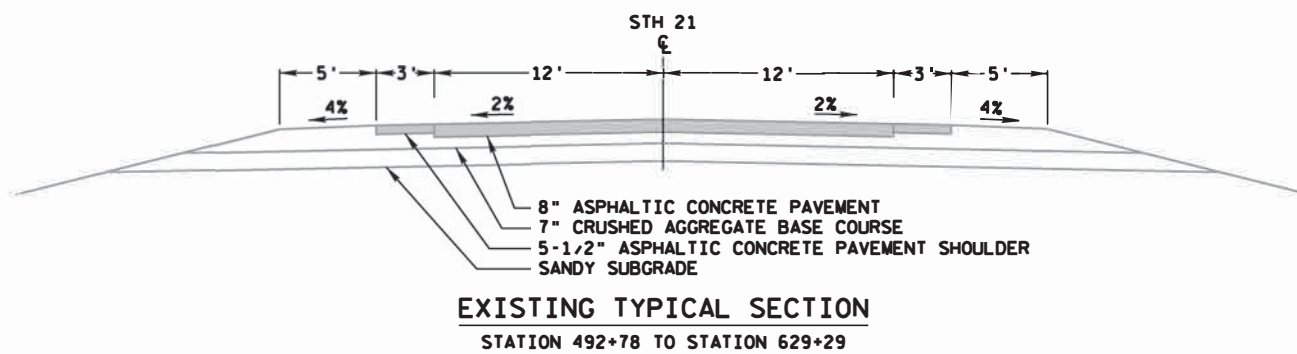
LAYOUT
SCALE 0 3 MILE
TOTAL NET LENGTH OF CENTERLINE = 11.876

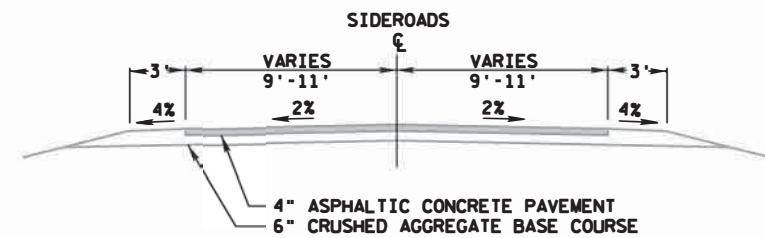
HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, COUNTY COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	WISDOT
Designer	TRAVIS MIKSHOWSKY
Project Manager	ANTHONY VANDERWIELEN
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	JOSEPH GREGAS
APPROVED FOR THE DEPARTMENT	
DATE: 10-29-2015	
	(Signature)
	E

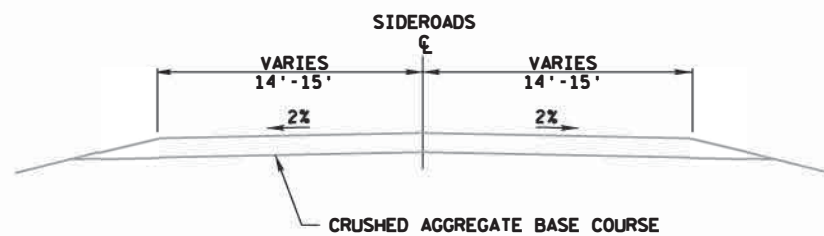


① PREPARATION OF FOUNDATION
FOR ASPHALTIC SHOULDERS

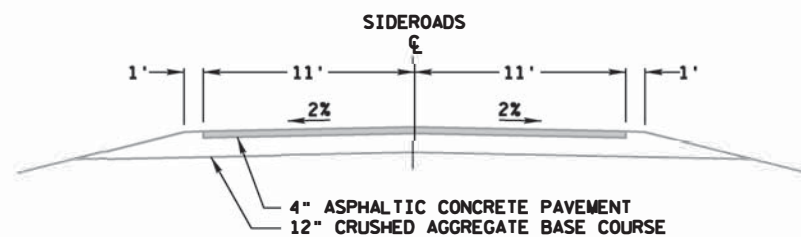


**EXISTING TYPICAL SECTION**

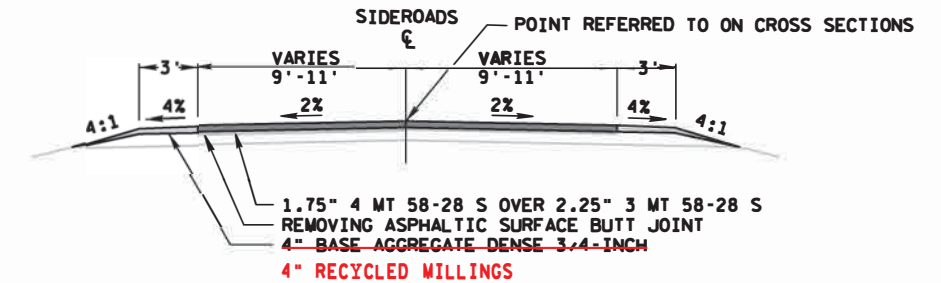
CTH 'H' (NORTH), 2ND AVENUE (SOUTH), 2ND AVENUE (NORTH), W STUB ROAD
CTH 'H' (SOUTH), CUTLER ROAD, CTH 'M', 6TH AVENUE (SOUTH)
7TH AVENUE (NORTH), 7TH AVENUE (SOUTH), 22ND STREET

**EXISTING TYPICAL SECTION**

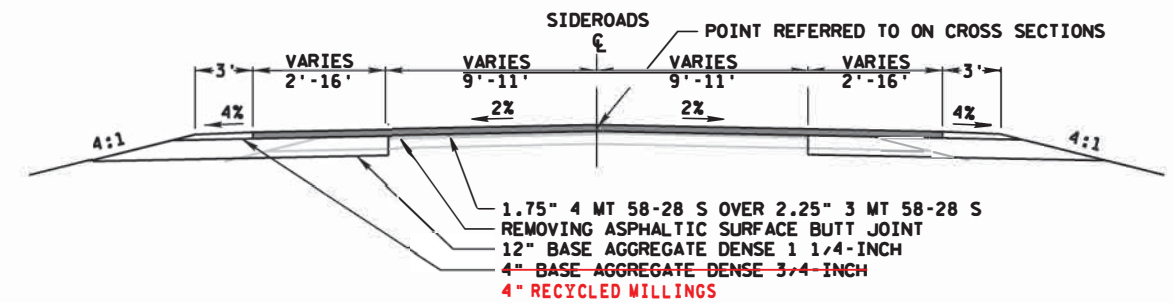
6TH AVENUE (NORTH), 9TH AVENUE

**EXISTING TYPICAL SECTION**

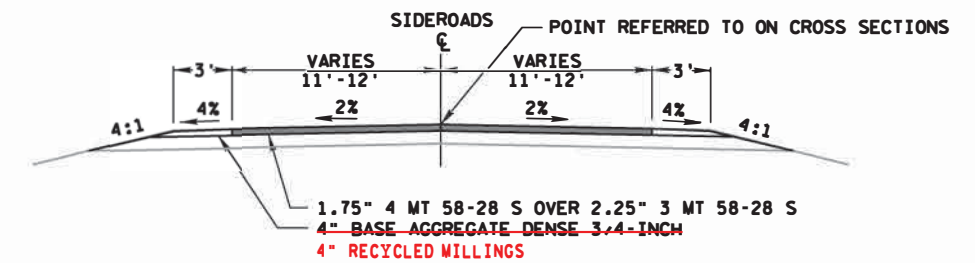
HEADQUARTERS ROAD

**PROPOSED TYPICAL SECTION**

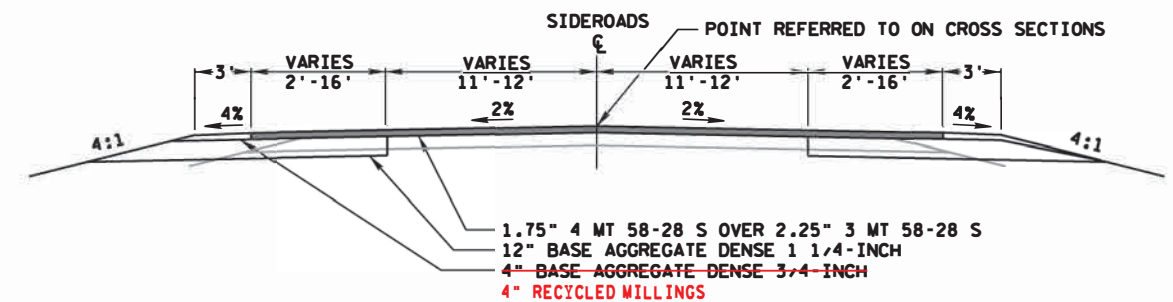
CTH 'H' (NORTH), 2ND AVENUE (SOUTH), 2ND AVENUE (NORTH), W STUB ROAD
CTH 'H' (SOUTH), CUTLER ROAD, CTH 'M', 6TH AVENUE (SOUTH)
7TH AVENUE (NORTH), 7TH AVENUE (SOUTH), HEADQUARTERS ROAD, 22ND STREET

**PROPOSED TYPICAL SECTION AT INTERSECTION RADII**

CTH 'H' (NORTH), 2ND AVENUE (SOUTH), 2ND AVENUE (NORTH), W STUB ROAD
CTH 'H' (SOUTH), CUTLER ROAD, CTH 'M', 6TH AVENUE (SOUTH)
7TH AVENUE (NORTH), 7TH AVENUE (SOUTH), 22ND STREET

**PROPOSED TYPICAL SECTION**

6TH AVENUE (NORTH), 9TH AVENUE

**PROPOSED TYPICAL SECTION AT INTERSECTION RADII**

6TH AVENUE (NORTH), 9TH AVENUE

2



* SEE MISCELLANEOUS
QUANTITIES FOR SIZE AND
LOCATION OF EACH AREA

Q STH 21

STA 83+60, LEFT
GRADING AND SHAPING APRON ENDWALL
* QUANTITIES LISTED ARE TO BE USED FOR BIDDING
PURPOSES ONLY. WORK TO BE PAID FOR UNDER ITEM
SPV.0060.01 GRADING AND SHAPING 72-INCH APRON ENDWALL.
SEE SPECIAL PROVISIONS FOR ALL ITEMS COVERED BY THIS
BID ITEM. SEE CONSTRUCTION DETAILS FOR TYPICAL EROSION
CONTROL INSTALLATION.

BORROW = 20 CY
SALVAGED TOPSOIL = 50 SY
MULCH = 50 SY
SEED #20 = 1 LB
FERTILIZER = 1 LB

RIPRAP HEAVY AND
GEOTEXTILE FABRIC TYPE HR

REMOVING WINGWALL PAID AS
ITEM 204.0185, REMOVING MASONRY

SLOPE INTERCEPT

~~1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 72-INCH~~

82

83

84

STH 21

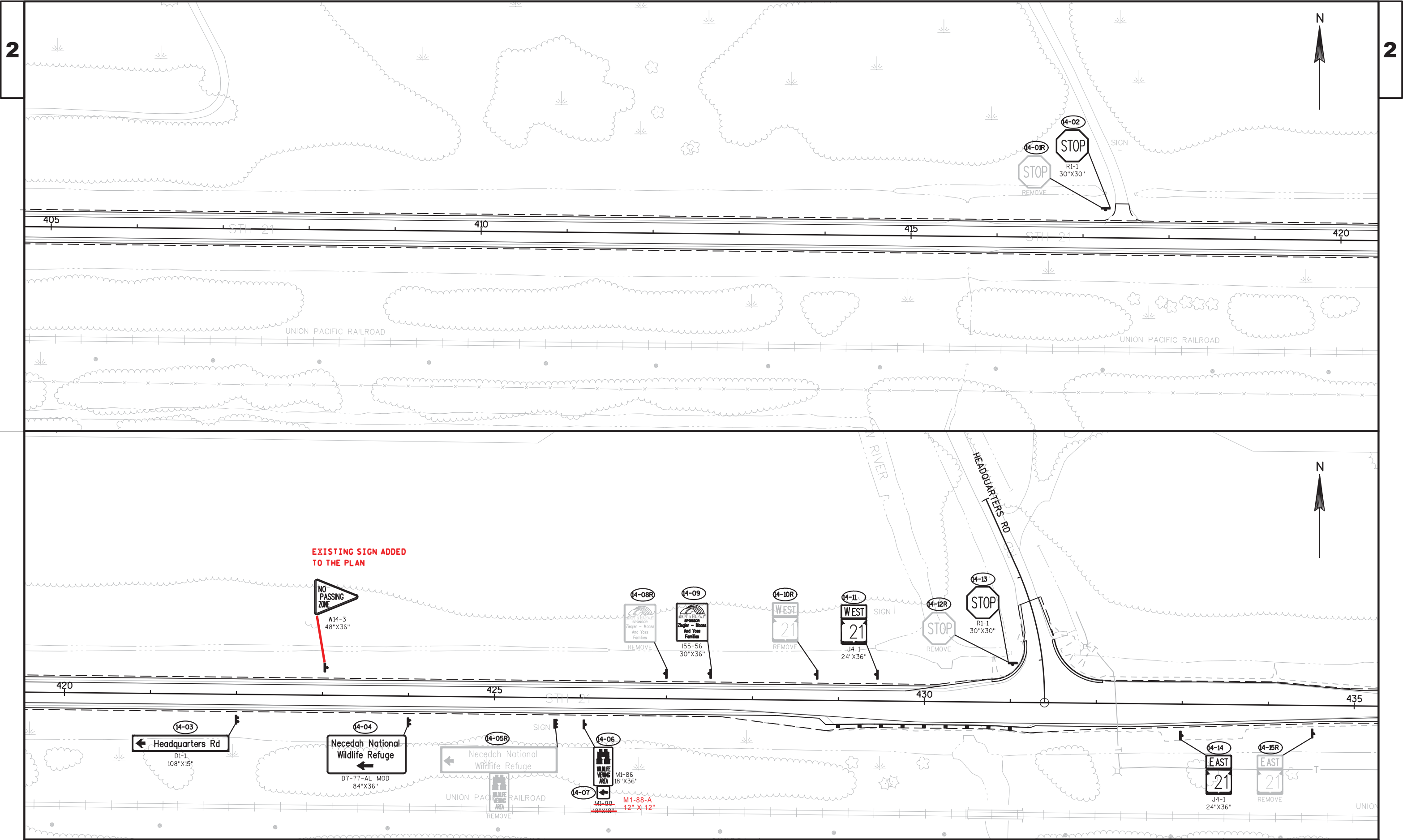
SLOPE INTERCEPT

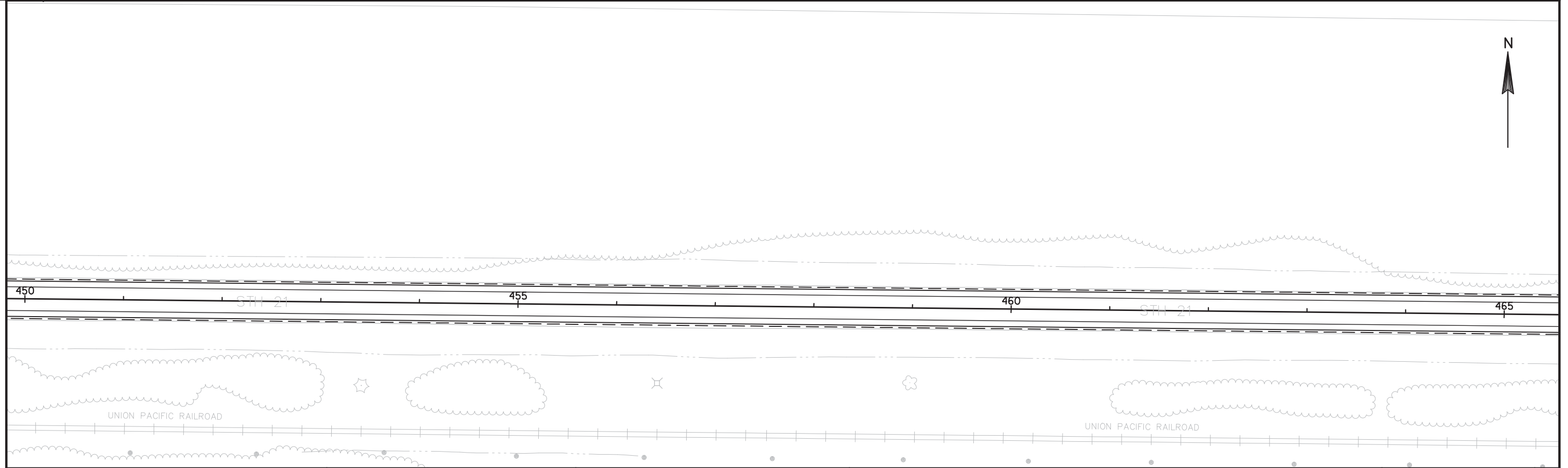
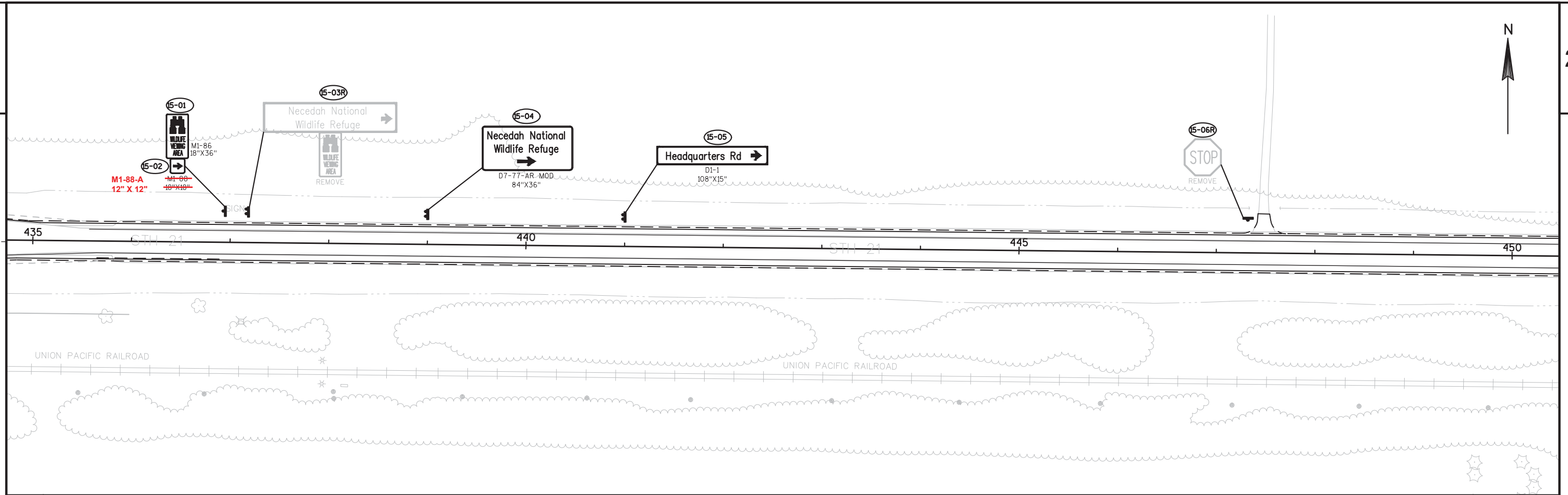
~~1 - APRON ENDWALLS FOR CULVERT PIPE STEEL 72-INCH~~

STA 82+50, RIGHT
GRADING AND SHAPING APRON ENDWALL
* QUANTITIES LISTED ARE TO BE USED FOR BIDDING
PURPOSES ONLY. WORK TO BE PAID FOR UNDER ITEM
SPV.0060.01 GRADING AND SHAPING 72-INCH APRON ENDWALL.
SEE SPECIAL PROVISIONS FOR ALL ITEMS COVERED BY THIS
BID ITEM. SEE CONSTRUCTION DETAILS FOR TYPICAL EROSION
CONTROL INSTALLATION.

BORROW = 20 CY
SALVAGED TOPSOIL = 50 SY
MULCH = 50 SY
SEED #20 = 1 LB
FERTILIZER = 1 LB

RIPRAP HEAVY AND
GEOTEXTILE FABRIC TYPE HR





3

DATE 19FEB16		E S T I M A T E O F Q U A N T I T I E S			
LINE				7010-01-61	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	203.0100	Removing Small Pipe Culverts	EACH	2.000	2.000
0020	204.0110	Removing Asphaltic Surface	SY	675.000	675.000
0030	204.0115	Removing Asphaltic Surface Butt Joints	SY	3,280.000	3,280.000
0040	204.0120	Removing Asphaltic Surface Milling	SY	217,100.000	217,100.000
0050	204.0150	Removing Curb & Gutter	LF	600.000	600.000
0060	204.0155	Removing Concrete Sidewalk	SY	28.000	28.000
0070	204.0165	Removing Guardrail	LF	225.000	225.000
0080	204.0185	Removing Masonry	CY	4.000	4.000
0090	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
0100	205.9015.S	Intersection (location) 01. CTH H North			
		Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 02. 2nd Ave. South			
0110	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 03. 2nd Ave. North			
0120	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 04. W Stub Rd. South			
0130	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 05. CTH H South			
0140	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 06. Cutler Rd. North			
0150	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 07. CTH M South			
0160	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 08. 6th Ave. North			
0170	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 09. 6th Ave. South			
0180	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 10. 7th Ave. North			
0190	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 11. 7th Ave. South			
0200	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 12. Headquarters Rd.			
0210	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 13. 9th Ave. North			
0220	205.9015.S	Grading Shaping and Finishing	LS	1.000	1.000
		Intersection (location) 14. 22nd St. West			
0230	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 7010-01-61	LS	1.000	1.000
0240	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	1,256.000	1,256.000
0250	213.0100	Finishing Roadway (project) 01. 7010-01-61	EACH	1.000	1.000
0260	305.0110	Base Aggregate Dense 3/4-Inch	TON	21,030.000	21,030.000
0270	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,095.000	1,095.000
0280	330.0100	Mill and Relay	SY	205,180.000	205,180.000
0290	374.1010.S	QMP Mill and Relay Compaction	SY	205,180.000	205,180.000
0300	440.4410	Incentive IRI Ride	DOL	47,500.000	47,500.000

3

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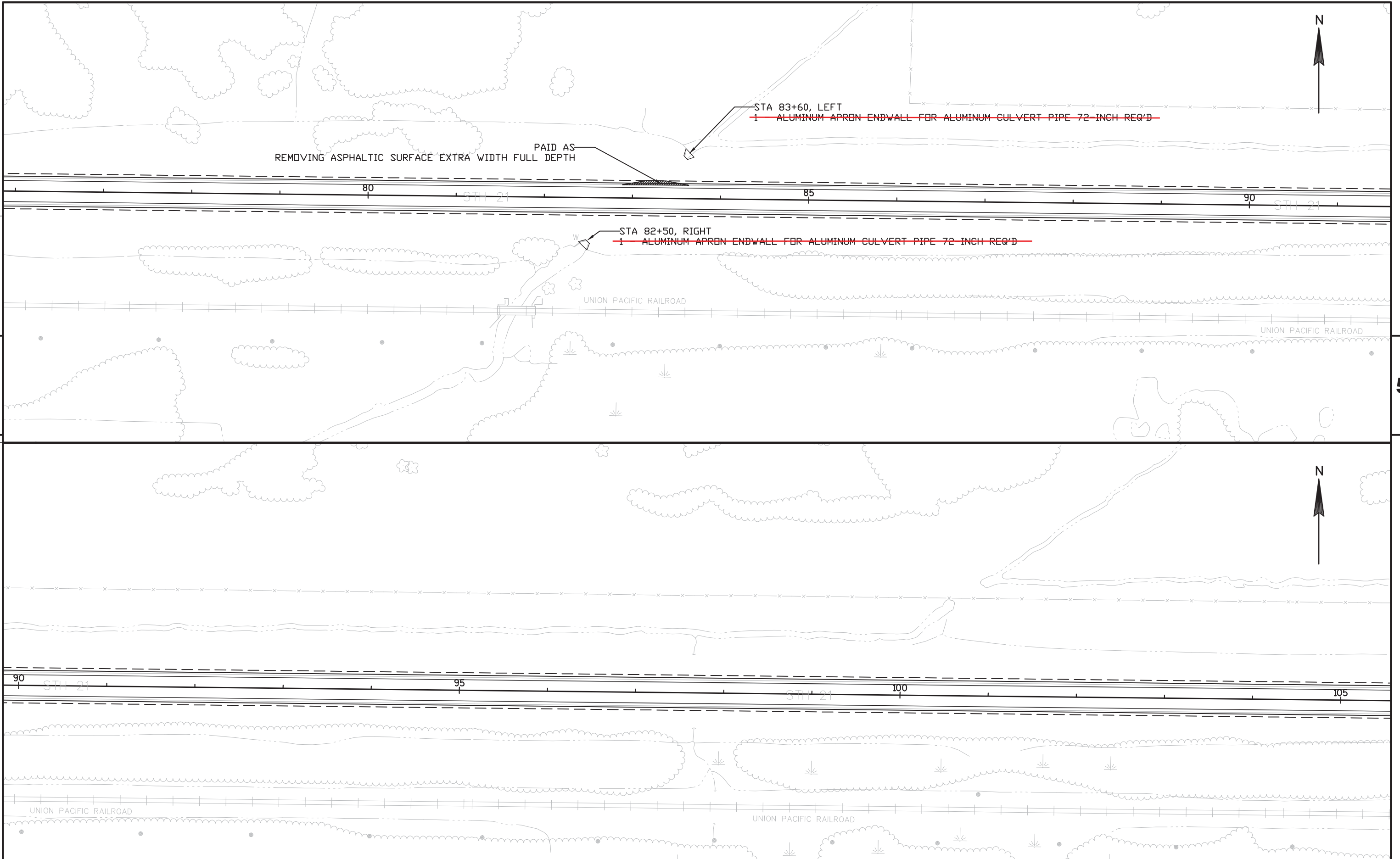
DATE 19FEB16		E S T I M A T E O F Q U A N T I T I E S			
LINE				7010-01-61	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0310	455.0605	Tack Coat	GAL	6,730.000	6,730.000
0320	460.2000	Incentive Density HMA Pavement	DOL	34,970.000	34,970.000
0330	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	62,703.000	62,703.000
0340	460.6223	HMA Pavement 3 MT 58-28 S	TON	30,290.000	30,290.000
0350	460.6224	HMA Pavement 4 MT 58-28 S	TON	24,375.000	24,375.000
0360	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	85.000	85.000
0370	465.0315	Asphaltic Flumes	SY	110.000	110.000
0380	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	109,729.000	109,729.000
0390	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	54,695.000	54,695.000
0400	521.1030	Apron Endwalls for Culvert Pipe Steel 30-Inch	EACH	2.000	2.000
0410	525.0118	Culvert Pipe Corrugated Aluminum 18-Inch	LF	56.000	56.000
0420	525.0124	Culvert Pipe Corrugated Aluminum 24-Inch	LF	35.000	35.000
0430	525.0130	Culvert Pipe Corrugated Aluminum 30-Inch	LF	25.000	25.000
0440	525.0136	Culvert Pipe Corrugated Aluminum 36-Inch	LF	23.000	23.000
0450	525.0318	Aluminum Apron Endwalls for Aluminum Culvert Pipe 18-Inch	EACH	2.000	2.000
0460	525.0324	Aluminum Apron Endwalls for Aluminum Culvert Pipe 24-Inch	EACH	8.000	8.000
0470	525.0330	Aluminum Apron Endwalls for Aluminum Culvert Pipe 30-Inch	EACH	6.000	6.000
0480	525.0336	Aluminum Apron Endwalls for Aluminum Culvert Pipe 36-Inch	EACH	12.000	12.000
0490	525.0372	Aluminum Apron Endwalls for Aluminum Culvert Pipe 72-Inch	EACH	2.000	2.000
0500	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	662.000	662.000
0510	602.0405	Concrete Sidewalk 4-Inch	SF	246.000	246.000
0520	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	70.000	70.000
0530	606.0200	Riprap Medium	CY	48.000	48.000
0540	606.0300	Riprap Heavy	CY	50.000	50.000
0550	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0560	614.0010	Barrier System Grading Shaping Finishing	EACH	3.000	3.000
0570	614.2300	MGS Guardrail 3	LF	138.000	138.000
0580	614.2610	MGS Guardrail Terminal EAT	EACH	2.000	2.000
0590	618.0100	Maintenance And Repair of Haul Roads (project) 01.7010-01-61	EACH	1.000	1.000
0600	619.1000	Mobilization	EACH	1.000	1.000
0610	624.0100	Water	MGAL	850.000	850.000
0620	628.1504	Silt Fence	LF	4,680.000	4,680.000
0630	628.1520	Silt Fence Maintenance	LF	4,680.000	4,680.000
0640	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0650	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0660	628.2004	Erosion Mat Class I Type B	SY	610.000	610.000
0670	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	102.000	102.000
0680	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	28.000	28.000
0690	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0700	637.2210	Signs Type II Reflective H	SF	796.680	796.680
0710	637.2230	Signs Type II Reflective F	SF	49.140	49.140
0720	638.2602	Removing Signs Type II	EACH	112.000	112.000
0730	638.3000	Removing Small Sign Supports	EACH	122.000	122.000

3

3

DATE 19FEB16		E S T I M A T E O F Q U A N T I T I E S			
LINE					7010-01-61
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0740	642.5201	Field Office Type C	EACH	1.000	1.000
0750	643.0100	Traffic Control (project) 01. 7010-01-61	EACH	1.000	1.000
0760	643.0300	Traffic Control Drums	DAY	510.000	510.000
0770	643.0900	Traffic Control Signs	DAY	2,820.000	2,820.000
0780	645.0120	Geotextile Fabric Type HR	SY	112.000	112.000
0790	646.0106	Pavement Marking Epoxy 4-Inch	LF	137,301.000	137,301.000
0800	646.0126	Pavement Marking Epoxy 8-Inch	LF	800.000	800.000
0810	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	3,500.000	3,500.000
0820	647.0556	Pavement Marking Stop Line Epoxy 12-Inch	LF	21.000	21.000
0830	648.0100	Locating No-Passing Zones	MI	11.880	11.880
0840	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	17,235.000	17,235.000
0850	650.8000	Construction Staking Resurfacing Reference	LF	62,703.000	62,703.000
0860	650.9910	Construction Staking Supplemental Control (project) 01. 7010-01-61	LS	1.000	1.000
0870	690.0150	Sawing Asphalt	LF	727.000	727.000
0880	690.0250	Sawing Concrete	LF	35.000	35.000
0890	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0900	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	1,440.000	1,440.000
0910	SPV.0060	Special 01. Grading and Shaping Apron Endwall	EACH	18.000	18.000
0920	SPV.0060	Special 02. Adjusting Water Valve Boxes	EACH	6.000	6.000
0930	SPV.0090	Special 01. Removing HMA Pavement Notched Wedge Longitudinal Joint Milling	LF	62,703.000	62,703.000
0930	SPV.0195	SPECIAL 01. DAY 2 "ADDITIONAL 1-2% DENSITY SECTION"	TON	2700.000	2700.000
0935	SPV.0195	SPECIAL 02. DAY 3 "ASPHALT BINDER REGRESSION"	TON	2700.000	2700.000
0940	SPV.0195	SPECIAL 03. DAY 4 "ASPHALT BINDER REGRESSION/ADDITONAL COMPACTIVE EFFORT COMBINED"	TON	3000.000	3000.000
0945	SPV.0195	SPECIAL 04. DAY 5 "WARM MIX ASPHALT"	TON	3000.000	3000.000
0950	SPV.0195	SPECIAL 05. DAY 6 "COMPACTION AID"	TON	3000.000	3000.000
0955	SPV.0195	SPECIAL 06. DAY 7 "WARM MIX ASPHALT/ ASPHALT BINDER REGRESSION"	TON	3000.000	3000.000
0960	SPV.0060	SPECIAL 03. CONSTRUCTION STAKING CURB & GUTTER RADII	EACH	8.000	8.000
0965	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	1.000	1.000
0970	SPV.0060	SPECIAL 04. ADDITIONAL MOBILIZATION	EACH	2.000	2.000
0975	SPV.0195	SPECIAL 07. 5MT 58-28S HMA	TON	3000.000	3000.000
0995	SPV.0105	SPECIAL 01. 72-INCH APRON ENDWALLS LABOR & MATERIAL	LS	1.000	1.000
1000	305.0500	SHAPING SHOULDERS	STA	332.000	332.000
1005	SPV.0195	SPECIAL 08. RECYCLED ASPHALT MILLINGS	TON	6000.000	6000.000
1010	SPV.0195	SPECIAL 09. 3/4-INCH BASE AGGREGATE DENSE (HIGHER RATE)	TON	750.000	750.000

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PROJECT NO: 7010-01-61	HWY: STH 21	COUNTY: JUNEAU	SPLIT PLAN SHEETS	SHEET 69	E
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