

Addendum #2

Date: 02/10/2025

Project Name: Shadow Mountain Drive Reconstruction

Project Number: 41ESMDR

Project Location: Bellemont – Shadow Mountain Drive

1. **Construction Plans - Sheet C2.1 Revision for Geogrid Removal**

Typical Pavement Section Detail #1 on Sheet C2.1 has been revised to include: "EXISTING GEOGRID BETWEEN NATURAL SUBGRADE AND AB SHALL BE REMOVED DURING THE ROADWAY EXCAVATION." Bid schedule shall remain as is; this work shall be incidental to Bid Item #7 (Keynote 100).

See attached sheet C2.1 provided by WLB, Inc.

2. **Bid Schedule – Bid Item added for Kinder Morgan Permit Application and Monitoring Fee**

Bid schedule has been revised to include Bid Item #40A for the "KINDER MORGAN PERMIT APPLICATION AND MONITORING FEE"

The project area includes work within Kinder Morgan ROW (Approx. Sta 16+45). The Contractor shall be responsible for applying for the Kinder Morgan Encroachment Information Form prior to scheduling and performing work within the Kinder Morgan ROW. The Contractor is required to follow all conditions under Kinder Morgan's permit.

For payment of Bid Item #40A, the Contractor shall be reimbursed through the allowable markups as outlined in section 109.5 of the MAG Standard Specifications; this is inclusive of *Time and Material* and *Work Performed by Other Sources* (such as Kinder Morgan monitoring fees). The Contractor and County Inspector shall track all the personnel time, equipment time, and materials needed to fulfill requirements of the Kinder Morgan encroachment permit. It shall be understood that the amount for this item (Bid Item #40A) in the contract is an estimate only (Contingency) and no guarantee is given that the full amount or any portion of it will actually be utilized. It shall not be utilized without specific written authorization by the County Engineer or his/her designee.

See attached Revised Bid Schedule and copy of Kinder Morgan Encroachment Permit Application.

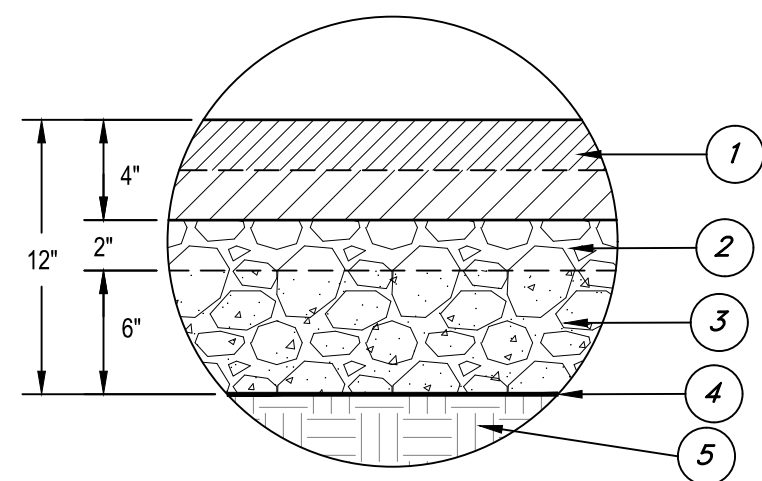
3. **Bid Schedule – Bid Item 41 (5% Owner Contingency) Removed**

See attached Revised Bid Schedule. Owner contingency shall not be included in bid proposal.

Signature: Charles Wilson

Date: 2-10-2025

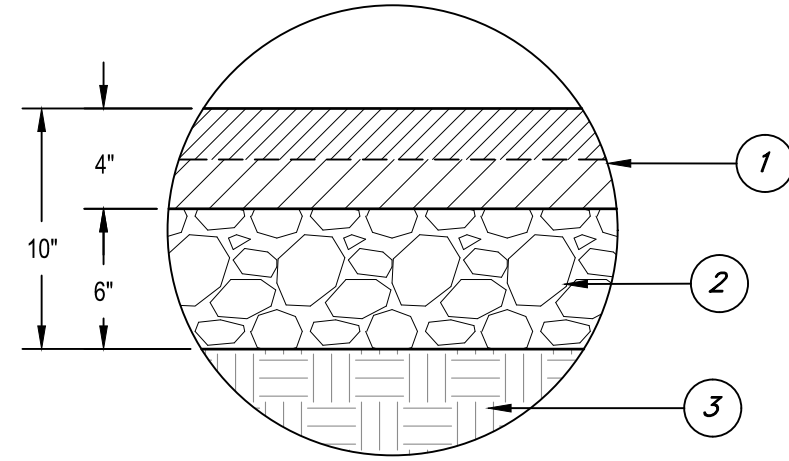




- 1 NEW 4" THICK ASPHALT TO BE CONSTRUCTED IN 2 LIFTS. CONTRACTOR TO INSTALL TACK COAT BETWEEN LIFTS. BOTTOM LIFT TO BE 2" OF 1/2" ASPHALT PER MAG SPEC. SEC 321 WITH A PG64-28TR+ BINDER. TOP LIFT TO BE 2" OF 1/2" ASPHALT WITH PG64-28TR+ BINDER. PER SECTION 710 OF THE SPECIAL PROVISIONS.
- 2 NEW 2" THICK AGGREGATE BASE COURSE PER MAG SPEC. SEC. 310, COMPACTED TO 100%
- 3 NEW 6" THICK CEMENT TREATED BASE USING BLENDED ASPHALT AND AGGREGATE BASE SALVAGED FROM THE ROADWAY AND 5% CEMENT PER THE GEOTECHNICAL EVALUATION JOB NO. 25-223549-0R BY WESTERN TECHNOLOGIES, DATED DECEMBER 15, 2024.
- 4 EXISTING GEOGRID BETWEEN NATURAL SUBGRADE AND AB SHALL BE REMOVED DURING THE ROADWAY EXCAVATION.
- 5 SUBGRADE PREPARATION PER MAG SPEC. SEC 301. COMPACTED TO 95%. REMOVE AND DISPOSE OF ANY EXISTING CLAY MATERIAL AND REPLACE WITH AB.

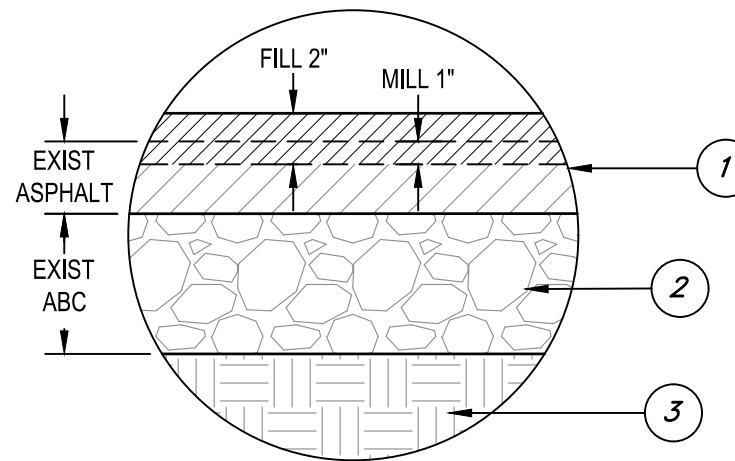
1 TYPICAL PAVEMENT SECTION

NOT TO SCALE
STA: 1+00 TO 34+45



2 TYPICAL SHOULDER PAVEMENT SECTION

NOT TO SCALE
STA: 34+45 TO 44+75

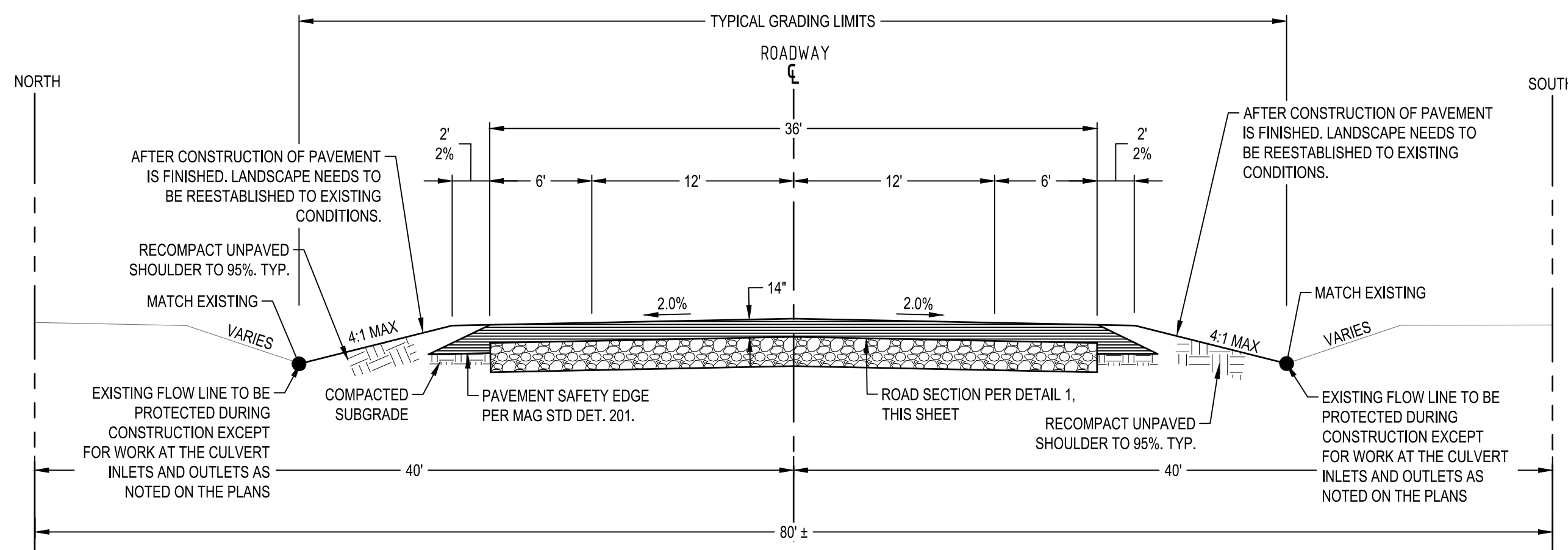


3 MILL AND FILL PAVEMENT SECTION

NOT TO SCALE
STA: 34+45 TO 44+75

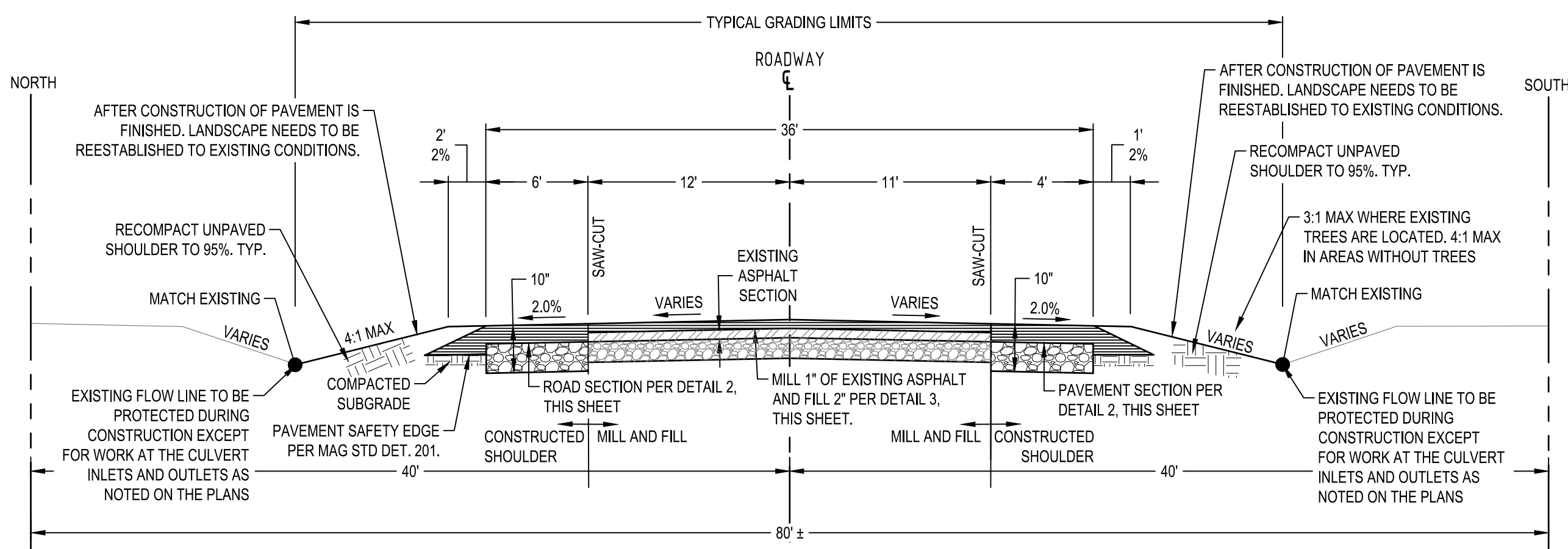
- 1 NEW 4" THICK ASPHALT TO BE CONSTRUCTED IN 2 LIFTS. CONTRACTOR TO INSTALL TACK COAT BETWEEN LIFTS. BOTTOM LIFT TO BE 2" OF 1/2" ASPHALT PER MAG SPEC. SEC 321 WITH A PG64-28TR+ BINDER. TOP LIFT TO BE 2" OF 1/2" ASPHALT WITH PG64-28TR+ BINDER. PER SECTION 710 OF THE SPECIAL PROVISIONS.
- 2 NEW 6" THICK AGGREGATE BASE COURSE PER MAG SPEC. SEC. 310, COMPACTED TO 100%
- 3 SUBGRADE PREPARATION PER MAG SPEC. SEC 301. COMPACTED TO 95%. REMOVE AND DISPOSE OF ANY EXISTING CLAY MATERIAL AND REPLACE WITH AB.
- 1 MILL 1" OF EXISTING ASPHALT AND FILL 2" OF 1/2" ASPHALT WITH PG64-28TR+ BINDER. ASPHALT TO BE PLACED AT THE SAME TIME AS THE TOP LIFT OF THE SHOULDER RECONSTRUCTION PAVEMENT. PER SECTION 710 OF THE SPECIAL PROVISIONS.
- 2 EXISTING 4" THICK AGGREGATE BASE COURSE.
- 3 EXISTING SUBGRADE

EXISTING ROAD SECTION: 3" AC OVER 4" AB



5 TYPICAL ROADWAY CROSS SECTION- RECONSTRUCTION

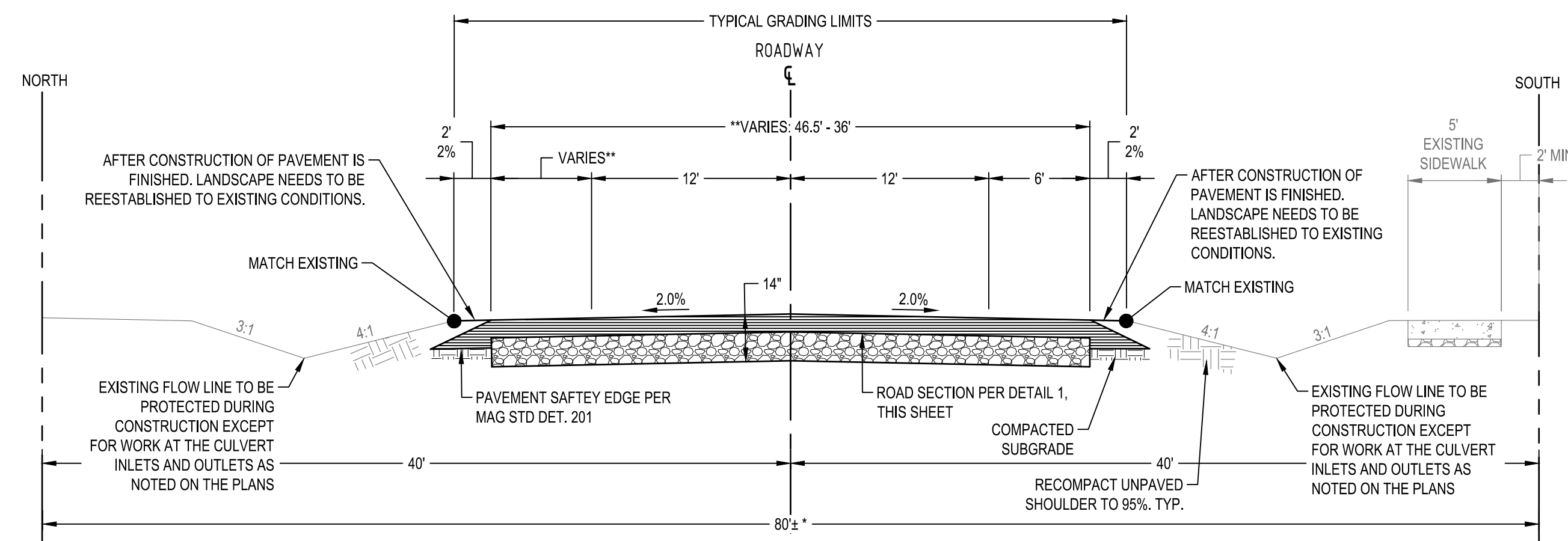
NOT TO SCALE
STA: 31+75 TO 34+45



EXISTING ROAD SECTION: 3" AC OVER 4" AB

TYPICAL ROADWAY CROSS SECTION- MILL AND FILL WITH CONSTRUCTED SHOULDER

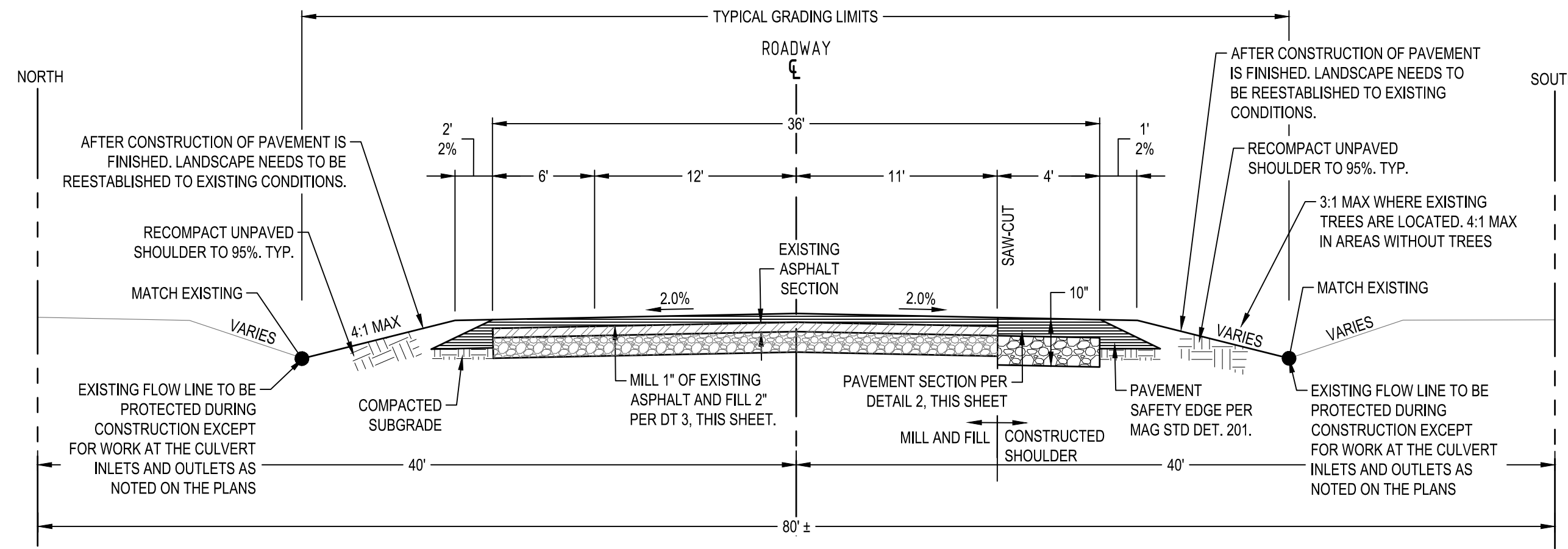
7
NOT TO SCALE
STA: 42+00 TO 44+75



*RIGHT OF WAY WIDTH VARIES FROM STA 0+00 TO STA 9+00:
**ASPHALT WIDTH VARIES FROM 46.5' TO 36' WITHIN STATION 1+00 - 5+40, 6' SHOULDER FROM 5+40 - 31+75

4 TYPICAL ROADWAY CROSS SECTION - RECONSTRUCTION

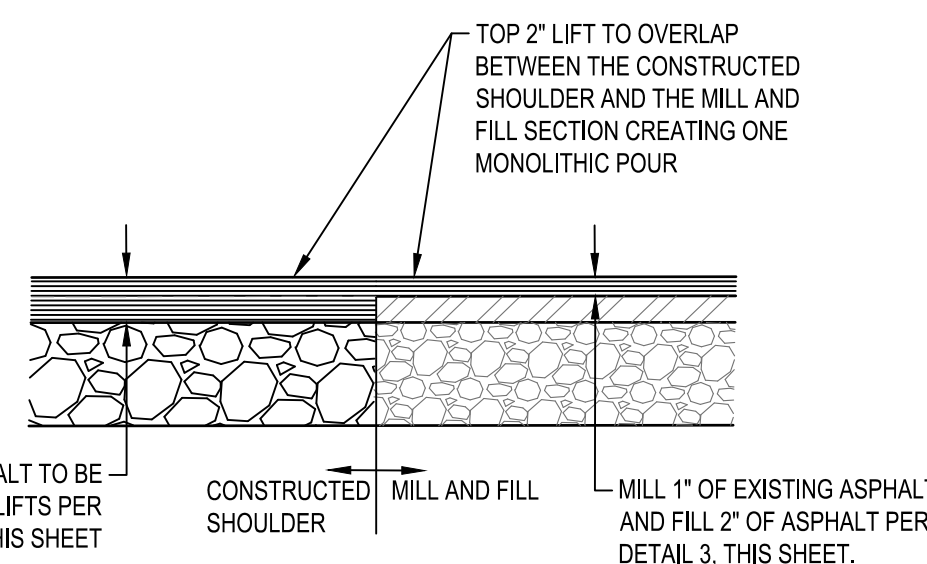
NOT TO SCALE
STA: 1+00 TO 31+75



EXISTING ROAD SECTION: 3" AC OVER 4" AB

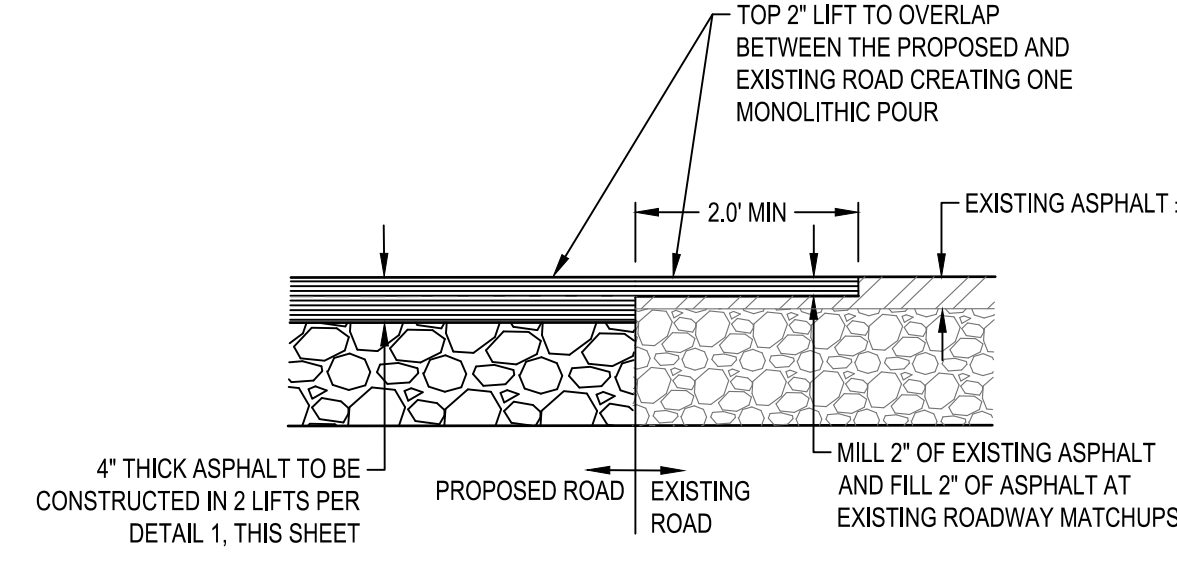
TYPICAL ROADWAY CROSS SECTION- MILL AND FILL WITH CONSTRUCTED SHOULDER

6
NOT TO SCALE
STA: 34+45 TO 42+00



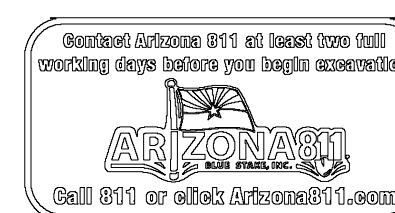
TRANSITION FROM MILL AND FILL TO CONSTRUCTED SHOULDER

8
NOT TO SCALE



PAVEMENT TERMINATION AT EXISTING ROADS

9
NOT TO SCALE



100% PLANS

ITEM:	ADDED GEOTECH TO PAVE SECTION 1
DATE:	02/07/2025
NO:	1
REVISIONS	

ENGINEERING • PLANNING • SURVEYING
LANDSCAPE ARCHITECTURE • URBAN DESIGN
OFFICE LOCATIONS:
TUCSON, PHOENIX, FLAGSTAFF, & LAS VEGAS, NV
120 N. BEAVER STREET SUITE 100, FLAGSTAFF, AZ 86001
PH: (928) 779-1500

The **WLB** Group, Inc.

SHADOW MOUNTAIN DRIVE
RECONSTRUCTION
DETAILS



DESIGNED BY: KK, DB	KK
DRAWN BY: DB, WRB	DB, WRB
CHECK BY: DB, WRB	DB, WRB
DATE: FEBRUARY 2025	

PROJECT NO.
323015A001

SHEET
C2.1



Bid Schedule_R1_Shadow Mountain Drive
100% Construction Plans

Project Title: Shadow Mountain Drive 100% Plans

Job No. 323015A001

Location: Bellemont, Arizona

Type/Lots: Road Reconstruction

Contractor Name:

Prepared by: KK

Date: 1/24/2025

Checked by: DB

Date: 1/24/2025

Owner: Coconino County (Rev 1 - 2/10/2025)

#	Keynote	Description	Qty	Unit	Unit Price	Total Cost
MISCELLANEOUS						
1		MOBILIZATION/DEMOB	1	LS		
2		SWPPP/BMP INSTALLATION	1	LS		
3		TRAFFIC CONTROL	1	LS		
4		PROVIDE AS-BUILT REDLINES TO ENGINEER (REFER TO SPECIAL PROVISIONS)	1	LS		
5		INSTALL PROP 403 PROJECT SIGN (TO BE PURCHASED BY CONTRACTOR; ORDERED BY COUNTY)	1	LS		
6		QUALITY CONTROL	1	LS		

SUBTOTAL:

REMOVALS & ADJUSTMENTS

7	100	REMOVE AND SALVAGE OF EXISTING ASPHALT FOR CEMENT TREATE BASE	14,875	SY		
8	101	REMOVE DEBRIS AND CLEAN EXISTING CULVERT	20	EA		
9	102	LOWER VALVE COVER	11	EA		
10		ADJUST VALVE COVER TO FINISHED GRADE	11	EA		
11	103	LOWER MANHOLE	8	EA		
12		ADJUST MANHOLE TO FINISHED GRADE	8	EA		
13	104	REMOVE AND DISPOSE OF EXISTING CONCRETE	225	SF		
14	105	REPLACE EXISTING SURVEY MONUMENT PER MAG STD DT 120 'TYPE A'	3	EA		
15	106	REMOVE AND DISPOSE OF EXISTING RIBBON CURB	105	LF		
16	107	REMOVE AND DISPOSE OF EXISTING VEGETATION	1	LS		
17	108	MILL 1" OF EXISTING ASHPALT	3,095	SY		
18	109	REMOVE AND DISPOSE OF EXISTING VERTICAL CURB	5	LF		

SUBTOTAL:

IMPROVEMNTS

19	200	INSTALL 4" AC ON CEMENT TREATED BASE SECTION	13,460	SY		
20		INSTALL 2" ABC ON CEMENT TREATED BASE SECTION	13,460	SY		
21		PLACEMENT OF 6-INCH THICK CEMENT TREATED BASE USING BLENDED AC AND AB SALVAGED FROM ROADWAY (CEMENT MATERIAL COST TO BE BID IN ITEM 22).	13,460	SY		
22		5% CEMENT FOR CEMENT TREATED BASE	143	TON		
23	201	INSTALL 4" AC	1,415	SY		
24		INSTALL 6" ABC	1,415	SY		
25	202	INSTALL 2" OF AC FILL	3,125	SY		
26	203	MILL 2" OF AC	105	SY		
		FILL 2" AC AT MATCH IN	105	SY		
27	204	INSTALL NEW MAG 220 TYPE 'B' RIBBON CURB	100	LF		
28		INSTALL 3" ABC UNDER TYPE 'B' RIBBON CURB	22	SY		
29	205	INSTALL EPOXY SEALANT ON EXISTING CONCRETE BOX CULVERT	175	SY		
30	206	INSTALL PENETRATION DECK SEALER	175	SY		
31	207	INSTALL VERTICAL CURB ALONG BOX CULVERT	15	LF		
32	500	REPAIR DRAINAGE PIPE END SECTION OF 18" CULVERT	4	EA		
33	600	INSTALL STRAW WATTLES	705	LF		
34	601	HYDROSEED DISTURBED AREA	0.0126	AC		
35	700	INSTALL 24" WIDE STOP BAR	10	EA		
36	701	NEW 6" WIDE SINGLE SOLID WHITE STRIPING	7,950	LF		
37	702	NEW 6" WIDE DOUBLE SOILID YELLOW STRIPING	4,435	LF		
38	703	RELOCATE EXISTING SIGN WITH POST AND FOUNDATION	2	EA		
39	704	NEW 8" WIDE SINGLE SOLID WHITE STRIPING	35	LF		

SUBTOTAL:

CONTINGENCIES

40		Unsuitable Material Contingency	1	Cont.		\$25,000.00
40A		Kinder Morgan Application and Monitoring Fees	1	Cont.		\$10,000.00

SUBTOTAL OF CONTINGENCIES: \$35,000.00

BASE BID PROJECT TOTAL:

Contractor Name:	
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ALTERNATE 1: ROUNDABOUT LANDSCAPE

42	100	CLEAR AND GRUB EXISTING VEGETATION	1	LS		
43	101	PROTECT EXISTING SIGNS IN PLACE	1	LS		
44	102	REMOVE AND DISPOSE OF EXISTING SIGN AND BASE	1	EA		
45	103	REMOVE AND DISPOSE OF EXISTING CURB AND GUTTER	43	LF		
46	200	INSTALL 8" THICK 4000 PSI CONCRETE SLAB	45	SY		
47		INSTALL 6" AB UNDER CONCRETE SLAB	45	SY		
48	201	INSTALL 3" DEEP, 3/4" BLACK CHERRY GRANITE	1,096	SY		
49		INSTALL WEED BARRIER FABRIC	1,096	SY		
50		PRE-EMERGENT HERBICIDE ON TOP OF WEED BARRIER	1,096	SY		
51	202	INSTALL MAG TYPE 'A' CURB AND GUTTER	43	LF		
52		INSTALL 3" ABC UNDER TYPE 'A' CURB AND GUTTER	10	SY		

SUBTOTAL OF CONSTRUCTION:	
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PROJECT TOTAL W/ BID ALT 1:	
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SECTION 1 - Encroaching Party Contact Information

Name/Company			Contact Name		Title	
Address			City		State	Zip Code
Telephone	Fax Number	Cellular Number		Email Address		

Representative (contractor/consultant) Name			Contact Name		Title	
Address			City		State	Zip Code
Telephone	Fax Number	Cellular Number		Email Address		

Landowner Name (if not applicant)					Landowner consent to works obtained? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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Location of Encroachment (e.g. city, county, state road/street or legal description of property)

Section:	Township:	Range:	Coordinates: GPS (Nad 83) Lat (y):	Long (x):
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The signatory is seeking to construct facilities or operate equipment under, over, near or crossing Kinder Morgan facilities or within the limits of the right-of-way under the jurisdiction of Kinder Morgan in accordance with applicable government regulations. The proposed encroachment is as follows:

Description of Encroachment and the construction procedures to be followed (attach extra pages as required to give full description)

Tentative construction date (MM/DD/YY)

SECTION 2 - Proposed Encroachment Type (check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> 1. Roadway Improvement / Widening | <input type="checkbox"/> 8. Drainage Channel Improvements | <input type="checkbox"/> 15. Fence / Landscape |
| <input type="checkbox"/> 2. New Paved Roadway / Parking Lot | <input type="checkbox"/> 9. Drainage Line (Storm Sewer) | <input type="checkbox"/> 16. Below Grade Elec. / Comm. |
| <input type="checkbox"/> 3. Unpaved Roadway / Gravel Roadway | <input type="checkbox"/> 10. Utility Line (Water/Sanitary) | <input type="checkbox"/> 17. Aerial Elect. / Comm. |
| <input type="checkbox"/> 4. Driveway / Parking Lot / Sidewalk | <input type="checkbox"/> 11. Foreign Pipeline | <input type="checkbox"/> 18. Seismic / Vibration |
| <input type="checkbox"/> 5. Railway Crossing | <input type="checkbox"/> 12. Dredging | <input type="checkbox"/> 19. Pile Driving |
| <input type="checkbox"/> 6. Grading / Add Fill / Remove Fill | <input type="checkbox"/> 13. Heavy Equipment Crossing | <input type="checkbox"/> 20. Blasting |
| <input type="checkbox"/> 7. Structure (walls, footings, buildings, etc.) | <input type="checkbox"/> 14. Waterway Crossing | <input type="checkbox"/> 21. Other: |

SECTION 3 - Required Information for Encroachment Review

Drawing and Information Types:	DOC = Depth of Cover
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<input type="checkbox"/> 1. Plan drawings. Kinder Morgan pipeline(s) shall be indicated with DOC.
<input type="checkbox"/> 2. Plan and profile (cross section) drawings with cover sheet. Kinder Morgan pipeline(s) shall be indicated with DOC.
<input type="checkbox"/> 3. Grading Plan - Indicate slope, contours, drainage/water flow changes, swales and erosion control.
<input type="checkbox"/> 4. Dredging Plan - Include the dredge outline showing depth and width of dredge limits. Specify dredge equipment and method.
<input type="checkbox"/> 5. Equipment Vehicle Specifications - Complete SECTION 5
<input type="checkbox"/> 6. Equipment Vibratory Specifications
<input type="checkbox"/> 7. Explosive Specifications
<input type="checkbox"/> 8. At minimum provide Plan drawings. If encroachment goes below grade provide profile drawing with DOC.
<input type="checkbox"/> 9. Complete SECTION 4 for items 9, 10 and 11 of SECTION 2

SECTION 4 - Utility & Foreign Line Crossings

A. Installation Method (Check all that apply)	<input checked="" type="checkbox"/> Conventional (open cut method)	<input type="checkbox"/> Bore (Auger Bore / Jack & Bore)	<input type="checkbox"/> HDD (Horizontal Directional Drill)	<input type="checkbox"/> Tunneling
B. Crossing Type (Check all that apply)	<input type="checkbox"/> Crossing OVER KM Pipeline	<input type="checkbox"/> Crossing UNDER KM Pipeline		
C. Does each crossing have an angle close to 90°?	<input type="checkbox"/> Yes	<input type="checkbox"/> No		
D. The newest crossings should be installed below existing facilities outside the tolerance zone.	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> TBD	

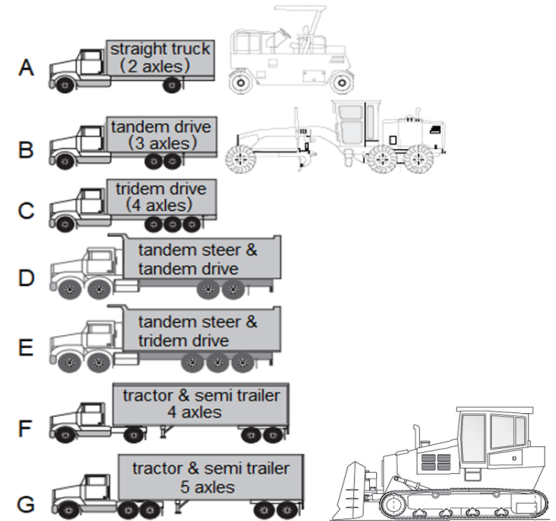
Does the new crossing meet the clearance & cover requirements outlined in the **KM Developer Handbook**?

SECTION 5 - Vehicle Crossing Data

Lat, Lon		One Call Ticket #			
Address		DOC Determination	<input type="checkbox"/> Pothole	<input type="checkbox"/> Probe	<input type="checkbox"/> Locator
Soil Type	<input type="checkbox"/> Granular Material <input type="checkbox"/> Sand & Gravel	<input type="checkbox"/> Saturated Clay <input type="checkbox"/> Saturated Top Soil	<input type="checkbox"/> Clay	Pavement Material <input type="checkbox"/> No Pavement <input type="checkbox"/> Asphalt <input type="checkbox"/> Concrete	

	Pipe 1	Pipe 2	Pipe 3	Pipe 4
Depth of Cover	ft	ft	ft	ft
Pavement Thickness	in	in	in	in
OD	in	in	in	in

	Make	Model	Weight	Axle Configuration
Axle Vehicle 1			lb	
Axle Vehicle 2			lb	
Axle Vehicle 3			lb	
Axle Vehicle 4			lb	



	Make	Model	Weight	A Track Length	B Track Width	C Track Gauge
Track Vehicle 1			lb	ft	in	ft
Track Vehicle 2			lb	ft	in	ft
Track Vehicle 3			lb	ft	in	ft
Track Vehicle 4			lb	ft	in	ft

SECTION 6 - Signature

Work shall not commence until reviewed by Kinder Morgan. The facilities or equipment must be constructed in accordance with the guidelines provided by Kinder Morgan.

Name (Print) _____ Date (MM/DD/YY) _____ Signature _____

Kinder Morgan operates pipeline facilities nationwide. Send completed requests with required supplemental information to the appropriate regional mailbox where your project will take place:

KMEncroachmentsNorth@kindermorgan.com

Pennsylvania, New York, New Jersey, Rhode Island, Connecticut, New Hampshire and Massachusetts

KMEncroachmentsCentral@kindermorgan.com

Montana, North Dakota, South Dakota, Minnesota, Iowa, Nebraska, Kansas, Missouri, Illinois, Indiana and Arkansas

KMEncroachmentsSouth@kindermorgan.com

Delaware, District of Columbia, Virginia, North Carolina, South Carolina, Georgia, Alabama and Florida

KMEncroachmentsPacific@kindermorgan.com

California, Oregon and Washington

KMEncroachmentsGulf@kindermorgan.com

Oklahoma, Texas, Louisiana and Mississippi

KMEncroachmentsWest@kindermorgan.com

Wyoming, Nevada, Utah, Colorado, Arizona and New Mexico

KMEncroachmentsEast@kindermorgan.com

Tennessee, Kentucky, West Virginia, Ohio and Michigan

Kinder Morgan will review the material submitted and may contact you to discuss the project, if needed. All requests are handled in the order that they are received. The time required to conduct an encroachment review varies depending upon the volume of requests received, the nature of the proposed encroachment and the proximity to Kinder Morgan assets. The approximate timeline for a full review is ten (10) weeks from the date all requested information is received; however, this timeline is subject to change.

SECTION 7 - KM USE ONLY

Reviewed By		Date Received (MM/DD/YY)	Date Approved (MM/DD/YY)
Pipeline/lateral name	KM Station/Mile Post #	Encroachment Number	Date Constructed (MM/DD/YY)