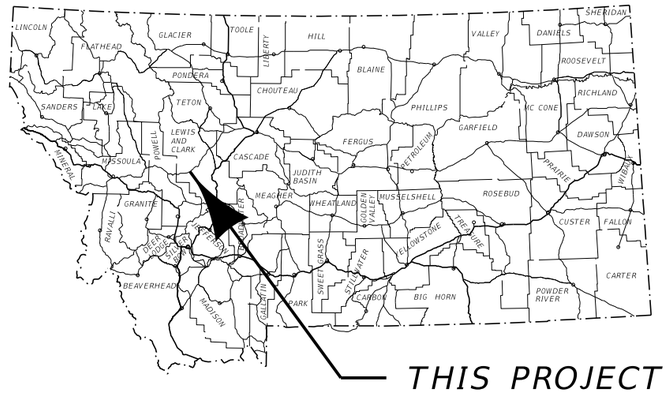
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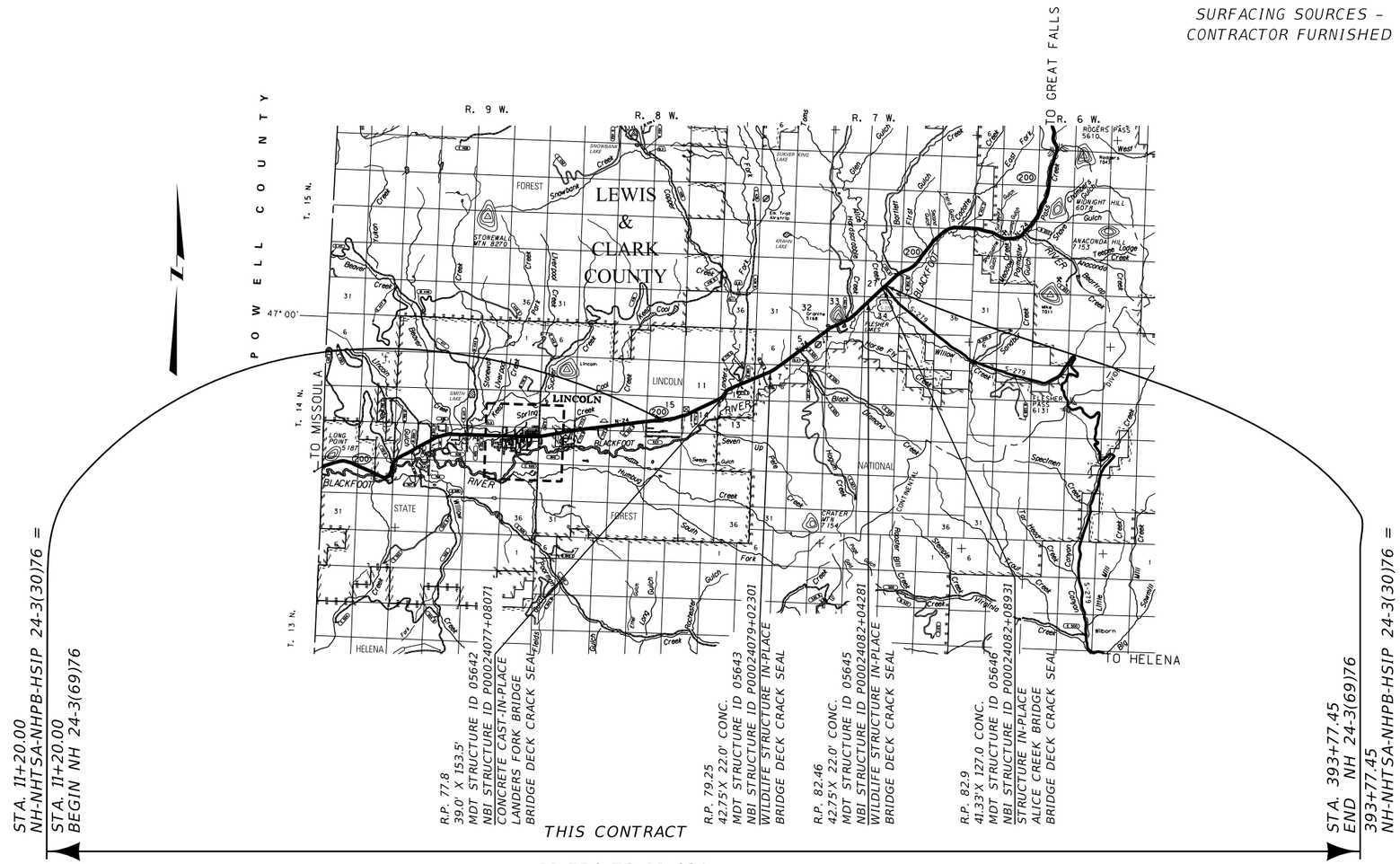
MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 24-3(69)76
C.L. TRENCH MILL & FILL, CRACK SEAL, BRIDGE DECK CRACK SEAL, C.L. RUMBLE STRIPS, SEAL & COVER
JCT S-279 - WEST (MT-200)
LEWIS AND CLARK COUNTY

LENGTH 7.2 MILES

PROJECT DESIGN DATA		
PRESENT	2021	A.D.T. = 2,060
LETTING	2023	A.D.T. = 2,110
DESIGN	2043	A.D.T. = 2,570
		D.H.V. = 510
		TRUCKS = 13.4 %
		V. = 70 mph
		18 KIP ESAL'S = 107
		GROWTH RATE = 1.0 %

SURFACING SOURCES - CONTRACTOR FURNISHED



RELATED PROJECTS
NH 24-3(73)65

3	MONTANA Department of Transportation	C:\DGN\9953000rdtl001.dgn	DESIGNED BY	R. KUNDA	6/20/2022	ROAD PLANS
2		1/23/2023	REVIEWED BY	R.SNYDER	6/20/2022	
		10:23:39 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/3/2023	UPN 9953000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 3/8" AGG.	= 6.2% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
CRACK SEALANT - EXISTING CRACKS	= 0.125 LBS. PER LNFT
CRACK SEALANT - NEW CRACKS	= 0.50 LBS PER LNFT
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND MAY EXIST BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS IS THE RESPONSIBILITY OF THE CONTRACTOR.

AS BUILTS

FAP 267D(1)
FAP 267E(1)
FAP 267A(1)
F 267(7)
F 267(10)
F 267(13)
FR 24-3(3)76 U1
BRF 24-3(12)78
STPHS 0002(388)
NH-NHTSA-NHPB-HSIP 24-3(30)76

LINEAR DATA

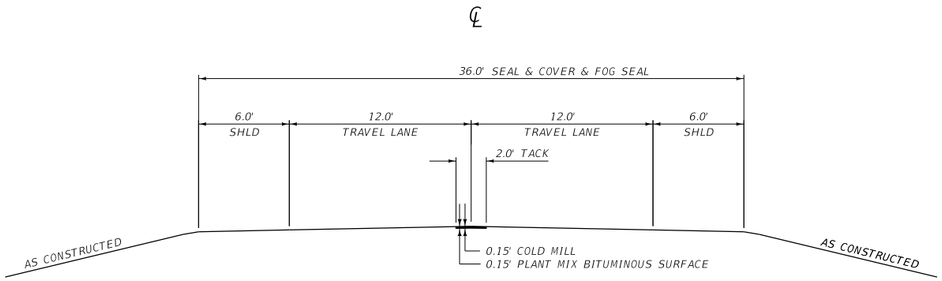
LENGTH OF ROADWAY IN LEWIS & CLARK COUNTY	2 LANE RURAL	37,932.95 ft
LENGTH OF BRIDGES IN LEWIS & CLARK COUNTY	2 LANE RURAL	324.50 ft
TOTAL LENGTH OF NH 24-3(69)76	2 LANE RURAL	38,257.45 ft

AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

11+20.00	TO	106+94.20	TYP. SECTION NO. 1
106+94.20	TO	108+14.20	TRANS. TYP. NO. 1 TO TYP. NO. 2
118+74.49	TO	188+69.00	TYP. SECTION NO. 1
188+69.00	TO	189+89.00 BE	TRANS. TYP. NO. 1 TO TYP. NO. 2
191+31.00	TO	359+19.00	TYP. SECTION NO. 1
359+19.00	TO	360+39.00 BE	TRANS. TYP. NO. 1 TO TYP. NO. 2
361+81.00	TO	383+54.45	TYP. SECTION NO. 1
383+54.45	TO	384+74.45 BE	TRANS. TYP. NO. 1 TO TYP. NO. 2
387+21.45	TO	393+77.45	TYP. SECTION NO. 1



QUANTITIES

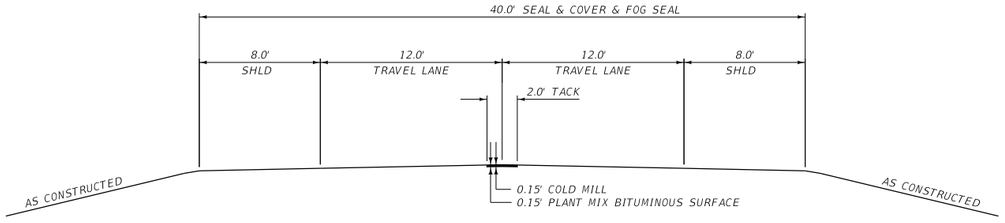
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		0.30	square yards PER STATION	400	22	400	22
cubic yards PER STATION		1.1	tons PER STATION	0.71			
tons PER STATION		2.1	gals. PER STATION		1	30	
square yards PER STATION	400						

*BASED ON 1 APPLICATIONS

TYPICAL SECTION NO. 2

MAINLINE

108+14.20	TO	114+81.07 BE	TYP. NO. 2
116+34.57 BE	TO	117+54.49	TYP. NO. 2
117+54.49	TO	118+34.29	TRANS. TYP. NO. 2 TO TYP. NO. 3
189+89.00 BE			ONLY
190+11.00 BE	TO	191+31.00	TRANS. TYP. NO. 2 TO TYP. NO. 1
360+39.00 BE			ONLY
360+61.00 BE	TO	361+81.00	TRANS. TYP. NO. 2 TO TYP. NO. 1
384+74.45 BE			ONLY
386+01.45 BE	TO	387+21.45	TRANS. TYP. NO. 2 TO TYP. NO. 1



QUANTITIES

UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		0.30	square yards PER STATION	444	22	444	22
cubic yards PER STATION		1.1	tons PER STATION	0.79			
tons PER STATION		2.1	gals. PER STATION		1	33	
square yards PER STATION	444						

*BASED ON 1 APPLICATIONS

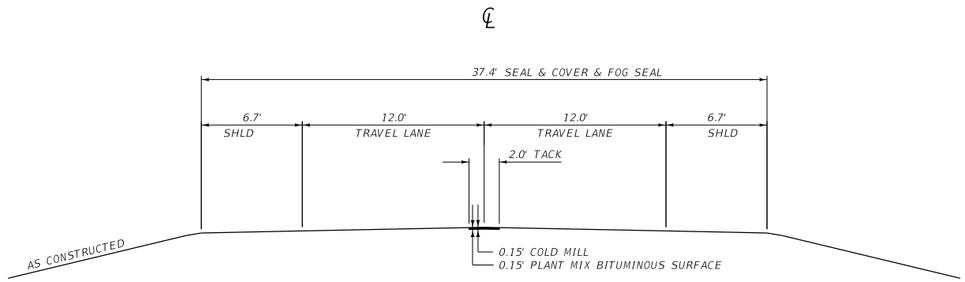
3	MONTANA Department of Transportation	C:\DGN\9953000rdtyp001.dgn	DESIGNED BY	R. KUNDA	6/20/2022	ROAD PLANS	JCT S-279 - WEST (MT-200) / NH 24-3(69)76
2		1/23/2023	REVIEWED BY	R.SNYDER	6/20/2022		
		10:23:55 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/3/2023	LEWIS AND CLARK COUNTY	UPN 9953000 / 3

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TYPICAL SECTION NO. 3

MAINLINE

118+34.29 ONLY
118+34.29 TO 118+74.49 TRANS. TYP. NO. 3 TO TYP. NO. 1



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		0.30	square yards PER STATION	416	22	416	22
cubic yards PER STATION		1.1	tons PER STATION	0.74			
tons PER STATION		2.1	gals. PER STATION		1	31	
square yards PER STATION	416						

*BASED ON 1 APPLICATIONS

AWARD COPY

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL PLANT MIX GRADE S-3/8" PG. 58V-34	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL SS1	REMARKS
11+20.00	106+94.20	9,574.20	9,574.20				38,297	201	68.0	96	2,872	TYPICAL SECTION NO. 1
106+94.20	108+14.20	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
108+14.20												
114+81.07 BE	116+34.57 BE				153.50	BRIDGE						
	117+54.49	940.29	786.79				3,493	17	6.2	8	260	TYPICAL SECTION NO. 2
117+54.49	118+34.29	79.80	79.80				343	2	0.6	1	26	TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 3
118+34.29	118+74.49	40.20	40.20				167	1	0.3	1	12	TRANSITION TYP. SECT. NO. 3 TO TYP. SECT. NO. 1
118+74.49	188+69.00	6,994.51	6,994.51				27,978	147	49.7	70	2,098	TYPICAL SECTION NO. 1
188+69.00	189+89.00 BE	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
189+89.00 BE	190+11.00 BE	22.00			22.00	BRIDGE						
190+11.00 BE	191+31.00	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 1
191+31.00	359+19.00	16,788.00	16,788.00				67,152	353	119.2	168	5,036	TYPICAL SECITON NO. 1
359+19.00	360+39.00 BE	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
360+39.00 BE	360+61.00 BE	22.00			22.00	BRIDGE						
360+61.00 BE	361+81.00	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 1
361+81.00	383+54.45	2,173.45	2,173.45				8,694	46	15.4	22	652	TYPICAL SECTION NO. 1
383+54.45	384+74.45 BE	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
384+74.45 BE	386+01.45 BE	127.00			127.00	BRIDGE						
386+01.45 BE	387+21.45	120.00	120.00				506	3	0.9	1	38	TRANSITION TYP. SECT. NO. 2 TO TYP. SECT. NO. 1
387+21.45	393+77.45	656.00	656.00				2,624	14	4.7	7	197	TYPICAL SECTION NO. 1
						ADDITIONAL SURFACING	1,838		3.3			
TOTAL		38,257.45	37,932.95	~	324.50		154,128	802	273.7	380	11,419	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	REMARKS
372+38.50	377+22.50						1,838	3.3	GVW SCALE SITE (SEE DETAIL)
SUBTOTAL		~	~	~	~		1,838	3.3	

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING 0.15 ft	REMARKS
11+20.00	114+81.34 BE	2,300	
116+34.29 BE	189+89.00 BE	1,633	
190+11.00 BE	360+39.00 BE	3,780	
360+61.00 BE	384+74.45 BE	536	
386+01.45 BE	393+77.45	172	
TOTAL		8,421	

* SEE TYPICAL

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CENTERLINE TYPE 3	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
11+20.00	114+81.34 BE	2.0	230	
116+34.29 BE	189+89.00 BE	1.4	163	
190+11.00 BE	360+39.00 BE	3.2	378	
360+61.00 BE	384+74.45 BE	0.5	54	
386+01.45 BE	393+77.45	0.1	17	
TOTAL		7.2	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

SUMMARY

CRACK SEALING *

STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING				REMARKS
		CRACK SEALING				
		NEW	EXISTING	NEW	EXISTING	
FROM	TO	pounds	pounds	linear feet	linear feet	
11+20.00	393+77.45	10,400		20,800#		
SUBTOTAL		10,400		20,800 #		
TOTAL		10,400		20,800 #	~	

* SEE DETAIL SHEET
\# FOR INFORMATION ONLY

VOID REDUCING ASPHALT MEMBRANE (VRAM) *

STATION		feet	REMARKS
		CENTERLINE JOINT SEALING	
FROM	TO	(VRAM)	
11+20.00	114+81.34 BE	10,361	
116+34.29 BE	189+89.00 BE	7,355	
190+11.00 BE	360+39.00 BE	17,028	
360+61.00 BE	384+74.45 BE	2,413	
386+01.45 BE	393+77.45	776	
TOTAL		37,933	

* SEE SPECIAL PROVISION

BRIDGE ITEMS

STATION		square yards	REMARKS
		BRIDGE DECK CRACK SEAL	
FROM	TO		
114+81.07 BE	116+34.57 BE	671	LANDERS FORK
189+89.00 BE	190+11.00 BE	100	WILDLIFE CROSSING
360+39.00 BE	360+61.00 BE	100	WILDLIFE CROSSING
384+74.45 BE	386+01.45 BE	569	ALICE CREEK
TOTAL		1,440	

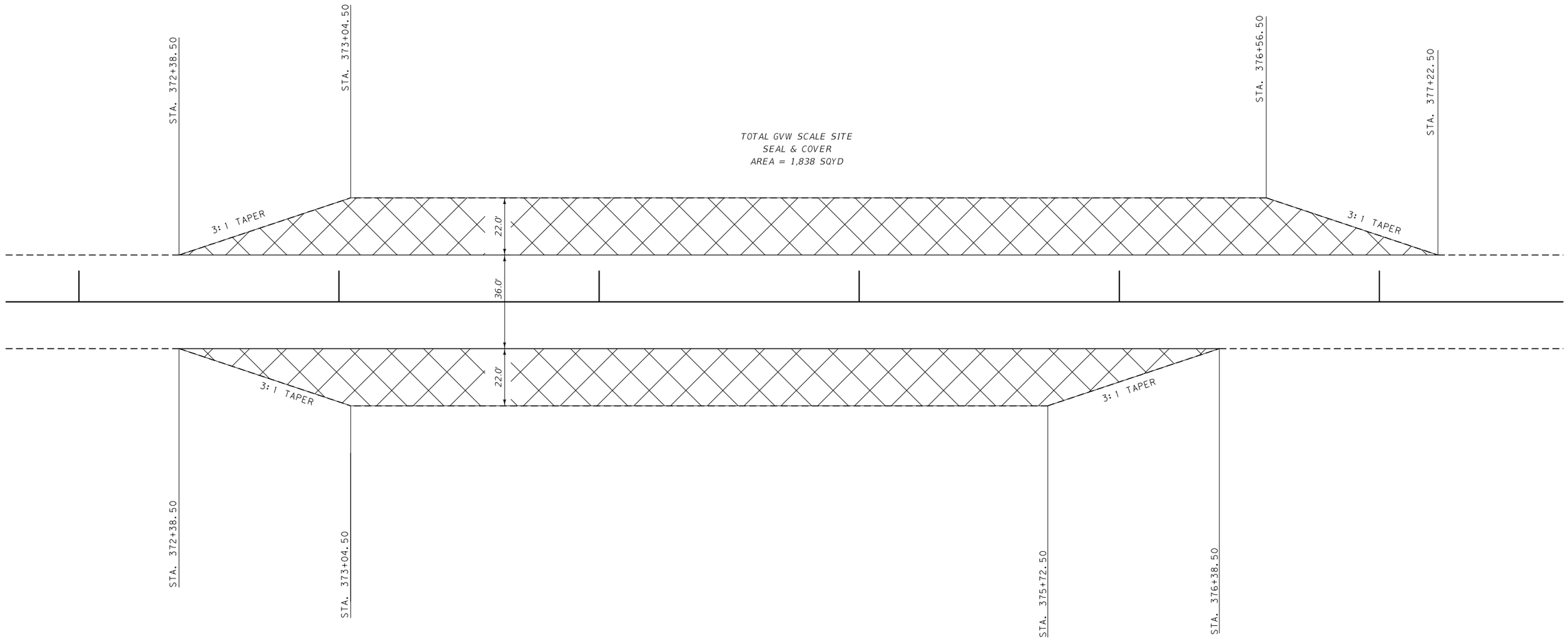
PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICA-TION #	FINAL APPLICA-TION	TOTAL
STRIPING - WHITE PAINT	gallon	532		532
STRIPING - YELLOW PAINT	gallon	174		174
STRIPING - WHITE EPOXY	gallon		355	355
STRIPING - YELLOW EPOXY	gallon		116	116

\# BASED ON 2 APPLICATIONS.

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DETAIL



DETAIL

GVW SCALE SITE
SEAL & COVER AREA

NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9953000rddet001.dgn	DESIGNED BY	R. KUNDA	6/20/2022	ROAD PLANS	JCT S-279 - WEST (MT-200) / NH 24-3(69)76
2		1/23/2023	REVIEWED BY	R.SNYDER	6/20/2022		
		10:24:32 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/3/2023	LEWIS AND CLARK COUNTY	UPN 9953000 / 7

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DETAIL

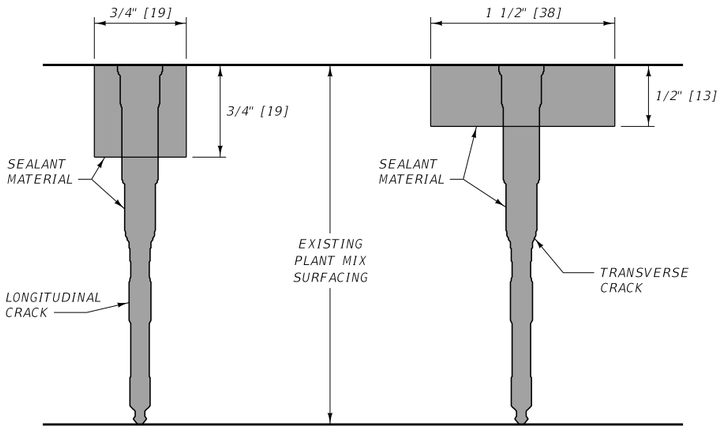
CRACKS 1/8" [3] TO 1" [25] WIDE

LONGITUDINAL CRACK

ROUT 3/4" [19] WIDE x 3/4" [19] DEEP
PRIOR TO APPLYING SEALANT

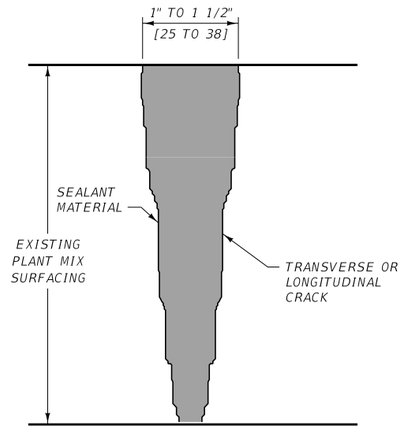
TRANSVERSE CRACK

ROUT 1 1/2" [38] WIDE x 1/2" [13] DEEP
PRIOR TO APPLYING SEALANT



CRACKS 1" [25] TO 1 1/2" [38] WIDE

LEAVE EXISTING CRACK SEAL IN PLACE

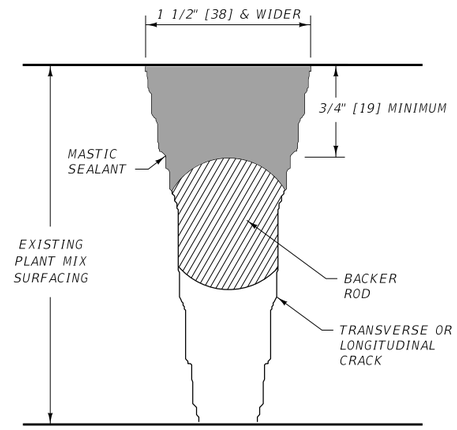


CRACKS 1 1/2" WIDE & LARGER

MASTIC REQUIRED

NO ROUTING REQUIRED

INSTALL BACKER ROD MATERIAL
PRIOR TO APPLYING SEALANT



UNITS SHOWN IN BRACKETS [] ARE
METRIC AND ARE IN MILLIMETERS (mm)
UNLESS OTHER UNITS ARE SHOWN.

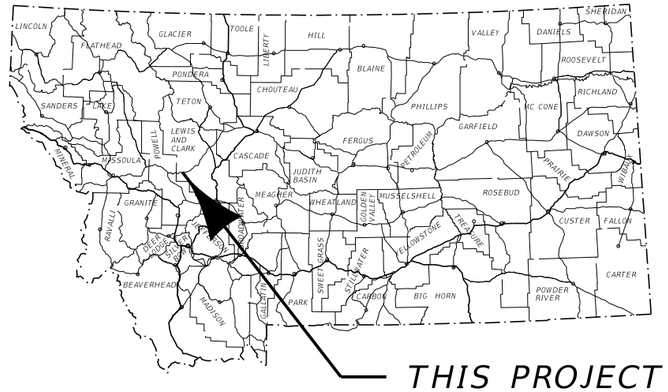
DETAIL

CRACK SEALING DETAIL

NO SCALE

3 1	MONTANA Department of Transportation	C:\DGN\9953000rddet001.dgn 1/23/2023 10:24:36 AM CPS - U1716	DESIGNED BY REVIEWED BY CHECKED BY	R. KUNDA R.SNYDER JERRY SABOL	6/20/2022 6/20/2022 1/3/2023	ROAD PLANS LEWIS AND CLARK COUNTY	JCT S-279 - WEST (MT-200) UPN 9953000	NH 24-3(69)76 8

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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 24-3(73)65

C.L. TRENCH MILL & FILL, CRACK SEAL, RUMBLE STRIPS, C.L. RUMBLE STRIPS, SEAL & COVER

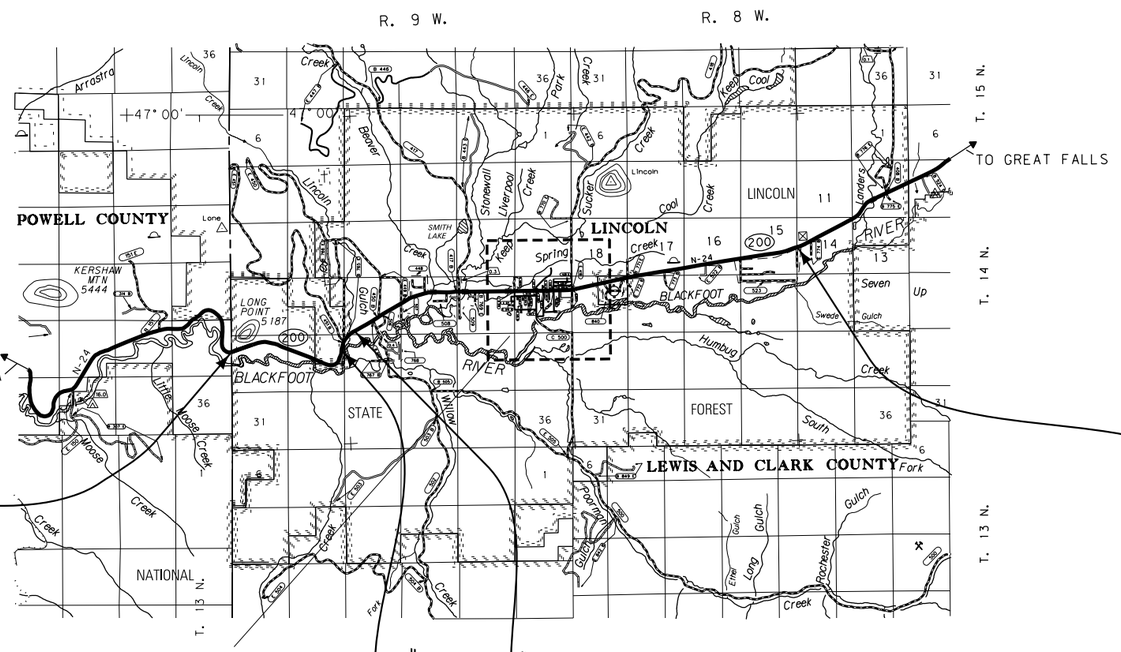
LINCOLN - E & W

LEWIS AND CLARK COUNTY

LENGTH 10.3 MILES

PROJECT DESIGN DATA		
PRESENT 2021	A.D.T. =	2040
LETTING 2023	A.D.T. =	2080
DESIGN 2043	A.D.T. =	2540
	D.H.V. =	510
	TRUCKS =	13.5%
	V. =	25-70 mph
	18 KIP ESAL'S =	106
	GROWTH RATE =	1.0

SURFACING SOURCES -
CONTRACTOR FURNISHED



RELATED PROJECTS
NH 24-3(69)76

STA. 516+22.87
NH 24-2(10)56 =
STA. 516+22.87
BEGIN NH 23-3(73)65

EQUATION
STA. 625+33.45 BK.
ON NH 24-2(10)56 =
STA. 0+00.00 AH
ON NH 24-3(20)68

EQUATION
STA. 20+08.48 BK.=
STA. 19+41.13 AH

THIS CONTRACT

RP 65.4 TO RP 75.8

STA. 423+42.18
END NH 23-3(73)65
STA. 423+42.18
NH 24-3(20)68 =

3	MONTANA Department of Transportation	C:\DGN\9960000rdtl001.dgn	DESIGNED BY	R. KUNDA	6/28/2022	ROAD PLANS
2		1/25/2023	REVIEWED BY	RJ. SNYDER	6/28/2022	
		6:36:31 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/24/2023	UPN 9960000

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RUMBLE STRIPS	5
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VOID REDUCING ASPHALT MEMBRANE	6
PAVEMENT MARKINGS	6
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PULL OUT SEAL & COVER AREA	7
PULL OUT, PARKING, & ACCESS AREA SEAL & COVER	8
CRACK SEALING DETAIL	9

NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

COMP. AGGREGATE WEIGHT	= 3700 LBS. PER CUBIC YARD
COMP. WEIGHT OF PL. MIX BIT. SURF.	= 3855 LBS. PER CUBIC YARD
ASPHALT CEMENT - GRADE S - 3/8" AGG.	= 5.4% OF PL.MIX BIT.SURF.
HYDRATED LIME	= 1.4% OF PL.MIX BIT.SURF.
BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
EMULSIFIED ASPHALT - TACK (ALL OTHER SURFACES)	= 0.05 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (S & C)	= 0.075 GAL. PER SQ.YARD (UNDILUTED)
EMULSIFIED ASPHALT - FOG SEAL (RUMBLE STRIPS)	= 0.10 GAL. PER SQ.YARD (UNDILUTED)
CRACK SEALANT - EXISTING CRACKS	= 0.125 LBS. PER LNFT
CRACK SEALANT - NEW CRACKS	= 0.50 LBS PER LNFT
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

PUBLIC LAND SURVEY MONUMENTS

ALL MONUMENTS TO BE REMOVED AND RELOCATED OR RESET BY STATE FORCES.

WETLANDS

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MISC. TO BE MOVED OR REMOVED BY OTHERS

ALL PRIVATELY OWNED SIGNS TO BE REMOVED BY OWNER.

AS BUILTS

267-D (1)
F-267(4)
NH 24-3(20)
NH 24-2(10)
STPS-NH-STPX-U-P-IM 0002(620)
NH 24-3(29)68
NH 24-3(42)68
NH 24-2(22)56
NH 24-3(53)68

LINEAR DATA

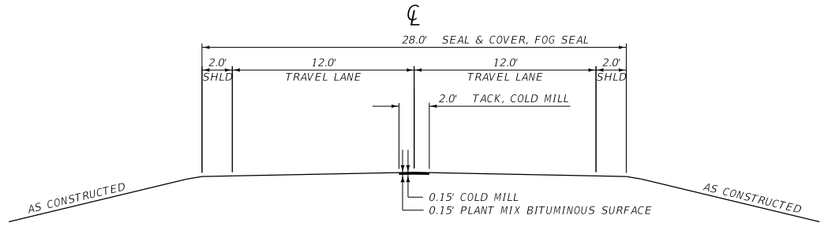
LENGTH OF ROADWAY IN LEWIS & CLARK COUNTY	2 LANE RURAL	54,320.11 ft
TOTAL LENGTH OF NH 24-3(73)65	2 LANE RURAL	54,320.11 ft

AWARD COPY

TYPICAL SECTION NO. 1

MAINLINE

516+22.87 TO 635+33.45 BK TYP. NO. 1
635+33.45 BK = 0+00.00 AH EQUATION
0+00.00 AH TO 3+00.00 TRANS. TYP. NO. 1 TO TYP. NO. 2



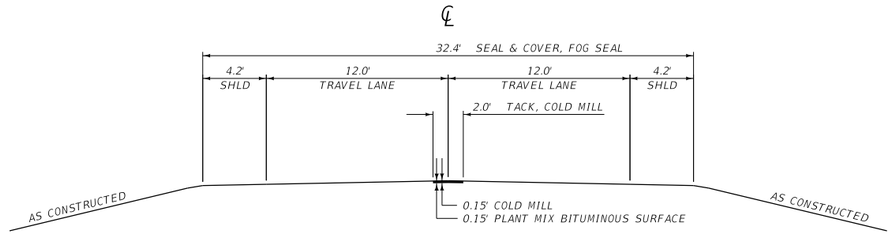
QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		0.30	square yards PER STATION	311	22	311	22
cubic yards PER STATION		1.1	tons PER STATION	0.56			
tons PER STATION		2.1	gals. PER STATION		1	23	
square yards PER STATION	311						

*BASED ON 1 APPLICATIONS

TYPICAL SECTION NO. 2

MAINLINE

3+00.00
20+08.48 BK = 19+41.13 AH EQUATION
166+18.49 TYP. NO. 2 THEN TO TYP. NO. 3
232+10.34 TO 423+42.18 TYP. SECT. NO. 2



QUANTITIES							
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL			COLD MILLING
	COVER	PLANT MIX		SEAL	EMULSIFIED ASPHALT TACK*	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet		0.30	square yards PER STATION	360	22	360	22
cubic yards PER STATION		1.1	tons PER STATION	0.64			
tons PER STATION		2.1	gals. PER STATION		1	27	
square yards PER STATION	360						

*BASED ON 1 APPLICATIONS

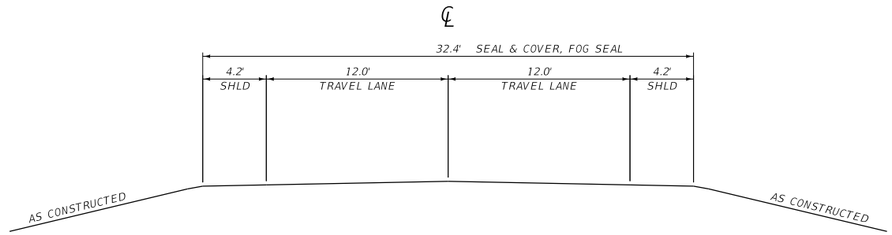
3	MONTANA Department of Transportation	C:\DGN\9960000rdtyp001.dgn	DESIGNED BY	R. KUNDA	6/28/2022	ROAD PLANS	LINCOLN E & W	NH 24-3(73)65
2		1/25/2023	REVIEWED BY	RJ. SNYDER	6/28/2022			
		6:36:49 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/24/2023	LEWIS AND CLARK COUNTY	UPN 9960000	3

AWARD COPY

TYPICAL SECTION NO. 3

MAINLINE

166+18.49 TO 178+02.48 TYP. SECT. NO. 3 THEN TO TYP. NO. 4
218+50.00 TO 232+10.34 TYP. SECT. NO. 3 THEN TO TYP. NO. 2

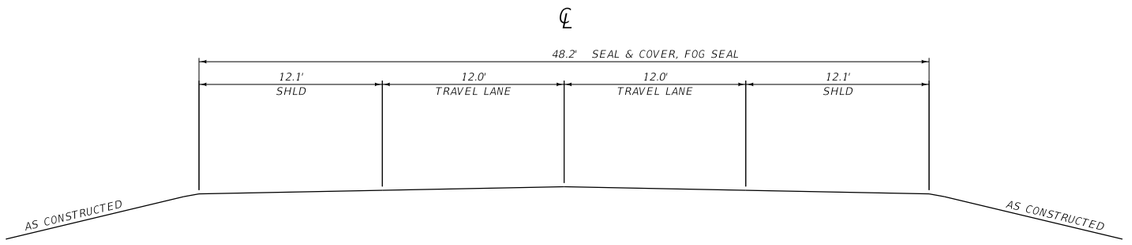


QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	360	360	
cubic yards PER STATION			tons PER STATION	0.64		
tons PER STATION			gals. PER STATION		27	
square yards PER STATION	360					

TYPICAL SECTION NO. 4

MAINLINE

178+02.48 TO 218+50.00 TYP. SECT. NO. 4 THEN TO TYP. SECT. NO. 3



QUANTITIES						
UNIT	AGGREGATE		UNIT	BITUMINOUS MATERIAL		
	COVER			SEAL	EMULSIFIED ASPHALT FOG SEAL	
AREA square feet			square yards PER STATION	536	536	
cubic yards PER STATION			tons PER STATION	0.96		
tons PER STATION			gals. PER STATION		40	
square yards PER STATION	536					

AWARD COPY

SUMMARY

SURFACING

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	AGGREGATE tons COMMERCIAL PLANT MIX GRADE S-3/8" PG. 58V-34	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT TACK	BITUMINOUS MATERIAL gals. EMULSIFIED ASPHALT FOG SEAL	REMARKS
516+22.87												
635+33.45 BK	0+00.00 AH	-51,622.87	11,910.58	63,533.45		EQUATION	37,042	250	66.7	119	2,739	TYPICAL SECTION NO. 1
0+00.00	3+00.00	300.00	300.00				1,007	6	1.8	3	75	TRANSITION TYP. SECT. NO 1 TO TYP. SECT. NO. 2
3+00.00												
20+08.48 BK	19+41.13 AH			67.35		EQUATION						
	166+18.49	16,318.49	16,385.84				58,989	344	104.9	164	4,424	TYPICAL SECTION NO. 2
166+18.49	178+02.48	1,183.99	1,183.99				4,262		7.6		320	TYPICAL SECTION NO. 3
178+02.48	218+50.00	4,047.52	4,047.52				21,695		38.9		1,619	TYPICAL SECITON NO. 4
218+50.00	232+10.34	1,360.34	1,360.34				4,897		8.7		367	TYPICAL SECTION NO. 3
232+10.34	423+42.18	19,131.84	19,131.84				68,875	402	122.4	191	5,166	TYPICAL SECTION NO. 2
570+70.91	385+61.54					ADDITIONAL SURFACING	2,888		5.1			
TOTAL		-9,280.69	54,320.11	~	~		199,655	1,002	356.1	477	14,710	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

STATION FROM	STATION TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	REMARKS
570+70.91	574+10.91					PULL-OUT (SEE DETAIL)	458	0.8	AREA MEASURED IN CAD
592+81.50	598+16.50					PULL-OUT (SEE DETAIL)	623	1.1	AREA MEASURED IN CAD
617+71.58	622+34.65					PULL-OUT (SEE DETAIL)	598	1.1	AREA MEASURED IN CAD
198+25.50	199+91.50					PARKING AREA (SEE DETAIL)	164	0.3	AREA MEASURED IN CAD
379+66.61	384+71.61					RECREATION ACCESS (SEE DETAIL)	739	1.3	AREA MEASURED IN CAD
384+11.54	385+61.54					PULL-OUT (SEE DETAIL)	306	0.5	AREA MEASURED IN CAD
SUBTOTAL		~	~	~	~		2,888	5.1	

COLD MILLING *

STATION FROM	STATION TO	sq. yards COLD MILLING	REMARKS
		0.15 ft	
516+22.87	166+18.49	6,355	STATION RANGE INCLUDES EQUATIONS
232+10.34	423+42.18	4,252	
TOTAL		10,607	

* SEE TYPICAL & DETAILS

RUMBLE STRIPS

STATION FROM	STATION TO	miles RUMBLE STRIPS CENTERLINE TYPE 2	miles RUMBLE STRIPS CENTERLINE TYPE 3	miles RUMBLE STRIPS INTER-MITTENT (6")	gals EMULSIFIED ASPHALT FOG SEAL #	REMARKS
516+22.87						
635+33.45 BK	0+00.00 AH					EQUATION
	3+00.00	2.3		3.6	694	
3+00.00						
20+08.48 BK	19+41.13 AH					EQUATION
	166+18.49		3.1	6.2	1,092	
232+10.34	423+42.18		3.6	7.2	1,275	
TOTAL		2.3	6.7	17.0	~	

FOR INFORMATION ONLY, INCLUDE IN THE COST OF RUMBLE STRIPS

AWARD COPY

SUMMARY

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	750		750
STRIPING - YELLOW PAINT	gallon	348		348
WORDS & SYMBOLS - WHITE PAINT	gallon	12		12
STRIPING - WHITE EPOXY	gallon	502		502
STRIPING - YELLOW EPOXY	gallon	233		233
WORDS & SYMBOLS - WHITE EPOXY	gallon	7		7
TEMPORARY STRIPING	linear feet			108,640

BASED ON 2 APPLICATIONS.

CRACK SEALING *

STATION		TRANSVERSE & LONGITUDINAL CRACK SEALING				REMARKS
		CRACK SEALING				
		NEW	EXISTING	NEW	EXISTING	
FROM	TO	pounds	pounds	linear feet	linear feet	
516+22.87	423+42.18	21,288	7,984	42,576#	63,869#	STATION RANGE INCLUDES EQUATIONS
SUBTOTAL		21,288	7,984	42,576#	63,869#	
TOTAL		29,272		~		

* SEE DETAIL SHEET
# FOR INFORMATION ONLY

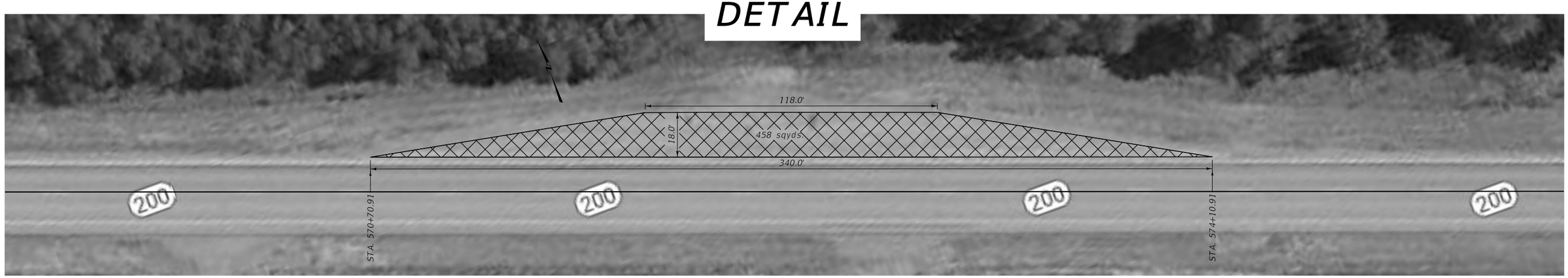
VOID REDUCING ASPHALT MEMBRANE (VRAM) *

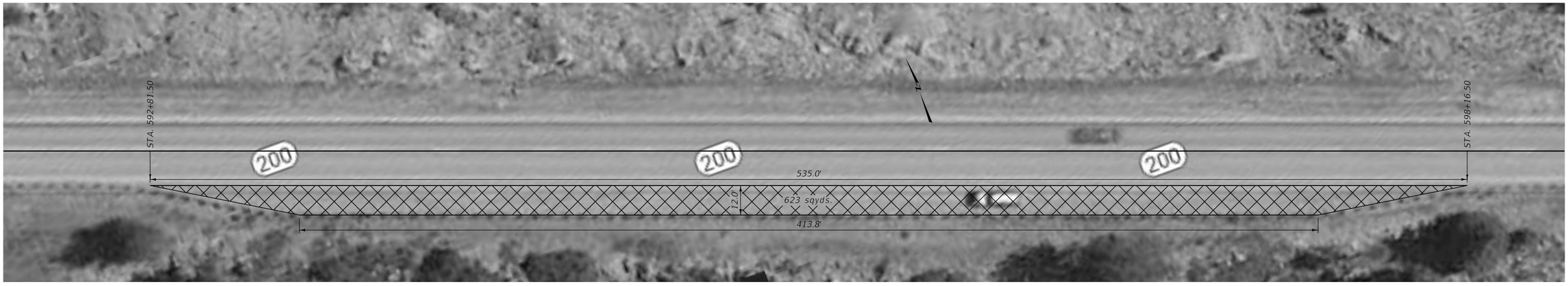
STATION		feet	REMARKS
		CENTERLINE JOINT SEALING	
FROM	TO	(VRAM)	
516+22.87	166+18.49	28,596	STATION RANGE INCLUDES EQUATIONS
232+10.34	423+42.18	19,132	
TOTAL		47,728	

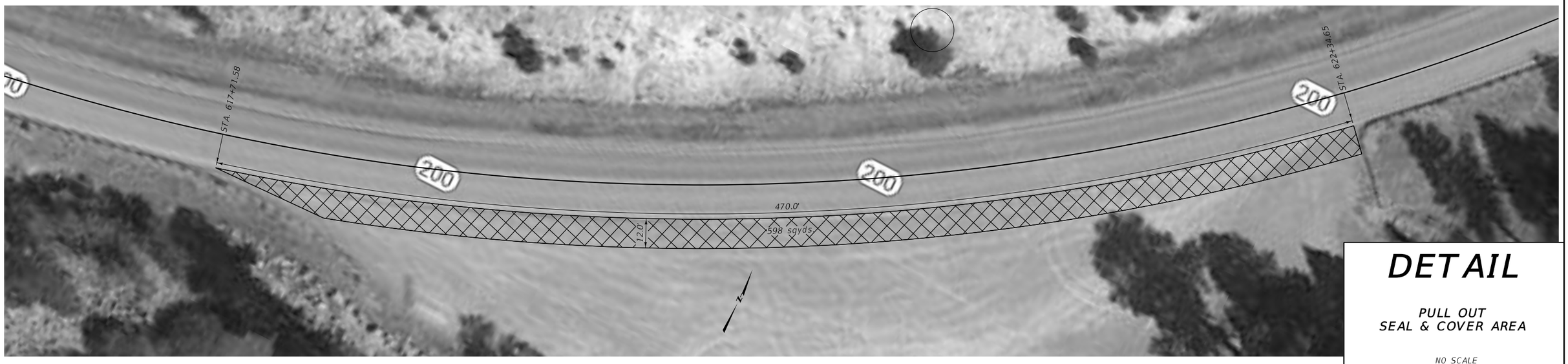
* SEE SPECIAL PROVISION

AWARD COPY

DETAIL







DETAIL

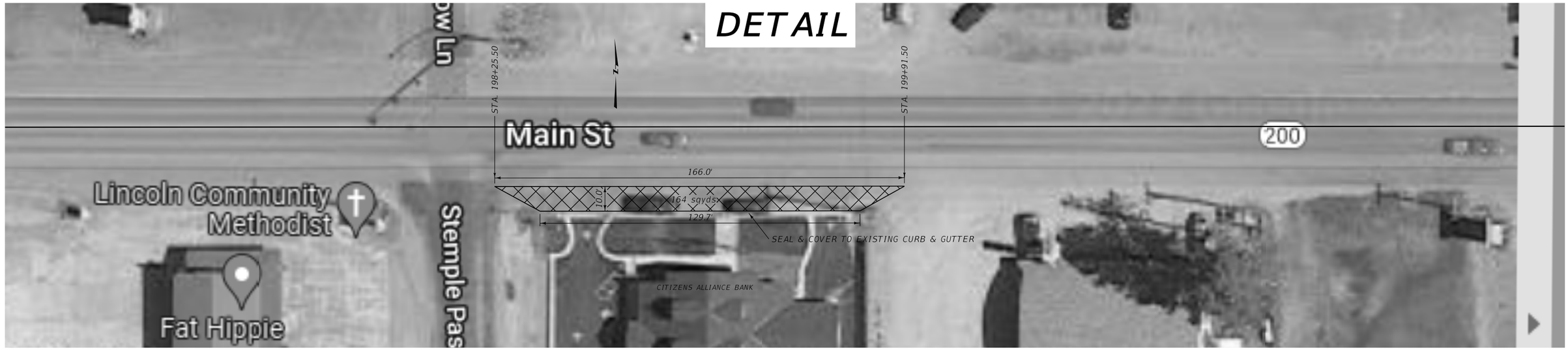
PULL OUT
SEAL & COVER AREA

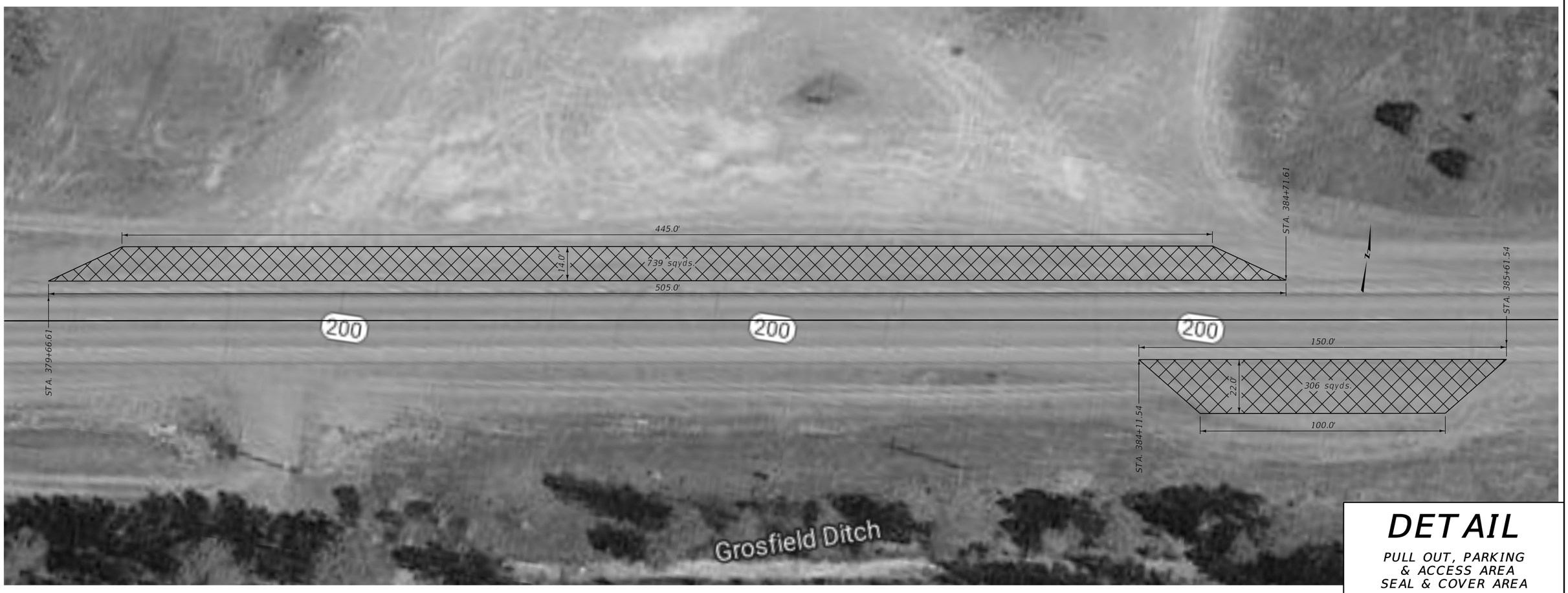
NO SCALE

3	MONTANA Department of Transportation	C:\DGN\9960000rddet001.dgn	DESIGNED BY	R. KUNDA	6/28/2022	ROAD PLANS	LINCOLN E & W / NH 24-3(73)65
2		1/25/2023	REVIEWED BY	RJ. SNYDER	6/28/2022		
		6:37:42 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/24/2023	LEWIS AND CLARK COUNTY	UPN 9960000 / 7

AWARD COPY

DETAIL





DETAIL

PULL OUT, PARKING
& ACCESS AREA
SEAL & COVER AREA

NO SCALE

2	MONTANA Department of Transportation	C:\DGN\9960000rddet001.dgn	DESIGNED BY	R. KUNDA	6/28/2022	ROAD PLANS	LINCOLN E & W / NH 24-3(73)65
		1/25/2023	REVIEWED BY	RJ. SNYDER	6/28/2022		
1		6:37:57 AM CPS - U1716	CHECKED BY	JERRY SABOL	1/24/2023	LEWIS AND CLARK COUNTY	UPN 9960000 / 8

AWARD COPY

DETAIL

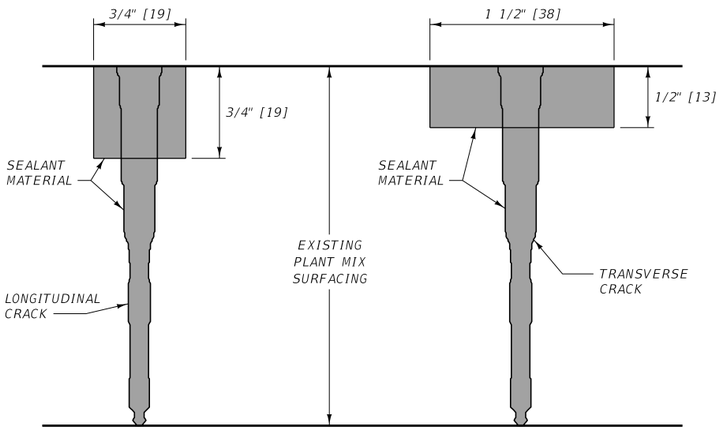
CRACKS 1/8" [3] TO 1" [25] WIDE

LONGITUDINAL CRACK

ROUT 3/4" [19] WIDE x 3/4" [19] DEEP
PRIOR TO APPLYING SEALANT

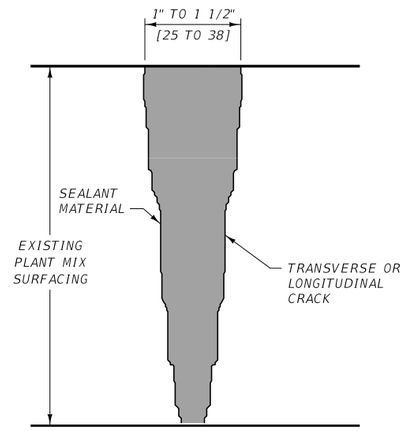
TRANSVERSE CRACK

ROUT 1 1/2" [38] WIDE x 1/2" [13] DEEP
PRIOR TO APPLYING SEALANT



CRACKS 1" [25] TO 1 1/2" [38] WIDE

LEAVE EXISTING CRACK SEAL IN PLACE

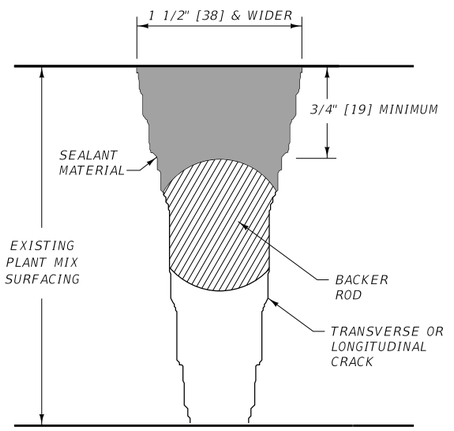


CRACKS 1 1/2" WIDE & LARGER

MASTIC REQUIRED

NO ROUTING REQUIRED

INSTALL BACKER ROD MATERIAL
PRIOR TO APPLYING SEALANT



UNITS SHOWN IN BRACKETS [] ARE
METRIC AND ARE IN MILLIMETERS (mm)
UNLESS OTHER UNITS ARE SHOWN.

DETAIL

CRACK SEALING DETAIL

NO SCALE

3 1	MONTANA Department of Transportation	C:\DGN\9960000rddet001.dgn 1/25/2023 6:38:12 AM CPS - U1716	DESIGNED BY REVIEWED BY CHECKED BY	R. KUNDA RJ. SNYDER JERRY SABOL	6/28/2022 6/28/2022 1/24/2023	ROAD PLANS LEWIS AND CLARK COUNTY		LINCOLN E & W UPN 9960000	NH 24-3(73)65 9