

STATE OF NORTH DAKOTA SHOWING COUNTIES

SPIRIT LAKE NATION, NORTH DAKOTA HIGHWAY SAFETY IMPROVEMENT PROGRAM PLANS FOR FEDERAL AID PROJECT HLC-0003(023)

BIA ROUTE 6 LEFT TURN LANE INTO CCCC HEAD START

Project is located on BIA Route 6 approximately 2 miles east and 0.5 miles south of Fort Totten.

DESIGN DATA

			EST 30th		
TRAFFIC		PASSENGER	TRUCKS	TOTAL	MAX. HR.
CURRENT TRAFFIC	2022	1105	15	1130	113
TRAFFIC FORECAST	2042	1325	20	1345	135

DESIGN SPEED

MINIMUM SIGHT DISTANCE (STOPPING)

50 MPH 425 FEET



DESIGNER	Charlie Thompson
DESIGNER	Samantha Schoepfer, PE
DESIGNER	
DESIGNER	
DESIGNER	

ST	ATE	PROJECT NO.		PCN	SECTION NO.	SHEET NO.	
Ν	ID	HLC-0003(023)		22923	1	1	
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	GOVERNING SPECIFICATIONS			Date Published and Adopted by the North Dakota Department of Transportation			
ſ	Standard Specifications			7/1/202	4		
	Supplemental Specifications			NON	Ξ		
		PROJECT LENGTH				_	

PROJECT	GROSS MILES	NET MILES
HLC-0003(023)	0.251	0.251
TOTAL	0.251	0.251

END PROJECT HLC-0003(023)

STA. 13+53 = A POINT 1610 FEET WEST AND 2631 FEET SOUTH OF THE NORTHWEST CORNER OF SEC. 24, TWP. 152 N., RGE. 65 W.



Surveyed & Designed Date

November 2022 - April 2023



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D-762-4	Pavement Marking
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SPECIAL PROVISIONS

Number	Description
SP 506(24)	Tribal Employment Rights Ordinance (TERO)
SP 507(24)	Commercial Grade Asphalt
SSP 1	Temporary Erosion and Sediment Best Management Practices
SSP 3	Local Agency Contracts
SSP 4	Longitudinal Joint Density
SSP 8	Federal Prohibition on Certain Technological Hardware

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LIST OF STANDARD DRAWINGS

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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PLAN NOTES

- **105-P01 UTILITIES:** No utility relocations or adjustments are planned. Protect all utilities on the project. They will remain in existing locations. The contractor will be responsible for verifying the locations and notifying all utility and pipeline companies to have locations flagged and marked prior to beginning construction. Any charges by the utility companies for locates will be paid by the Contractor. The Contractor will be liable for any costs resulting from damage to utilities.
- **107-P01 MAINTAINING TRAFFIC DROP-OFFS:** If, at the end of the workday, drop-offs greater than 2 inches and less than 18 inches or slopes steeper than 4:1 exist between the edge of a traffic lane and the outside edge of the proposed roadway, construct a traversable wedge in the area of a drop-off or steep slope.

When constructing a wedge, construct a wedge composed of aggregate or earthen materials with a 4:1 slope or flatter along the entire length of the area. Compact the materials using Type C compaction, as specified in 203.04 E.4, "Compaction Control Type C".

Install stackable vertical panels that meet the requirements of Section 704.03 H, "Stackable Vertical Panels", along the edge of the driving lane closest to the wedge.

The Engineer will measure the stackable vertical panels as specified in Section 704.05, "Method of Measurement" and will pay for panels as specified in Section 704.06, "Basis of Payment".

The Engineer will not measure the material used to construct the wedge. Include the cost of materials, equipment, labor, and incidentals required for this operation in the bid price for "Aggregate Base Course CL 5".

If a wedge with a 4:1 slope or flatter is not installed, provide 24-hour flagging & pilot car operations and associated traffic control at no additional cost to the owner.

The requirements of Section 704.04 O, "Traffic Control for Uneven Pavement" apply to drop-offs created by milling or the placement of hot mix asphalt.

- **108-P01 CONSTRUCTION ACTIVITIES:** Conduct work activities during daylight hours only and schedule construction activities to accommodate traffic before dark. Open both lanes during non-working hours and keep one lane open during working hours.
- **108-500 TERO COORDINATION:** Invite the Spirit Lake TERO Office to the Preconstruction Conference.
- 203-P01 WASTE: Common Excavation-Waste must be disposed of off the BIA right of way at an approved site.
- **203-P02** SHRINKAGE: 25% percent additional volume is included for shrinkage in earth embankment.
- **203-P03 TOPSOIL:** Salvage existing topsoil within the entire construction area. The quantity of topsoil is based upon a 6-inch depth. Any topsoil below the 6-inch depth is included in the Borrow-Excavation quantity. Upon completion of the grading work, spread the topsoil evenly over the areas to be seeded at the minimum 4-inch-depth. Payment for Topsoil will be based on plan quantity. Make arrangements for topsoil storage areas where sufficient room is not available within the existing right of way. The Contractor will not be reimbursed for additional handling of topsoil that must be moved to provide additional excavation area between the plan back slope and the right of way line or temporary construction easement.
- **704-P01 CONSTRUCTION SIGNING:** Furnish the necessary signing as required by construction operations. The required traffic control signs and devices are included in the "Traffic Control Devices List" and will be measured and paid at the contract unit price for each device. Payment will not be made for additional devices required to accommodate construction operations.

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Estimated Quantities

			Ma	ainline	
SPEC	CODE	ITEM DESCRIPTION	UNIT		
103	0100	CONTRACT BOND	L SUM	1	
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	388	
203	0101	COMMON EXCAVATION-TYPE A	CY	74	
203	0109	TOPSOIL	CY	773	
203	0113	COMMON EXCAVATION-WASTE	CY	896	
216	0100	WATER	M GAL	7	
251	0200	SEEDING CLASS II	ACRE	0.84	
251	2000	TEMPORARY COVER CROP	ACRE	0.84	
253	0101	STRAW MULCH	ACRE	1.68	
261	0112	FIBER ROLLS 12IN	LF	2549	
261	0113	REMOVE FIBER ROLLS 12IN	LF	2549	
302	0120	AGGREGATE BASE COURSE CL 5	TON	1210	
401	0050	TACK COAT	GAL	276	
430	0043	SUPERPAVE FAA 43	TON	526	
430	1000	CORED SAMPLE	EA	4	
430	5803	PG 58S-28 ASPHALT CEMENT	TON	32	
702	0100	MOBILIZATION	L SUM	1	
704	0100	FLAGGING	MHR	240	
704	1000	TRAFFIC CONTROL SIGNS	UNIT	536	
704	1067	TUBULAR MARKERS	EA	80	
704	1080	STACKABLE VERTICAL PANELS	EA	40	
704	1185	PILOT CAR	HR	120	
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	2818	
706	0550	BITUMINOUS LABORATORY	EA	1	
706	0600	CONTRACTOR'S LABORATORY	EA	1	
709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	1935	
762	0103	PVMT MK PAINTED-MESSAGE	SF	32	
762	0432	SHORT TERM 6IN LINE-TYPE NR	LF	4375	
762	1106	PVMT MK PAINTED 6IN LINE	LF	6474	
762	1112	PVMT MK PAINTED 12IN LINE	LF	365	

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BASIS OF ESTIMATE

Materials

Removal of Bituminous Surfacing Aggregate Base Course CL 5 Tack Coat Superpave FAA 43 PG 58S-28 Asphalt Cement

2.0 Ton/CY 1.875 Ton/CY 0.08 Gal/SY 2.0 Ton/CY 6.0%

Water

25 MGal/Mile for Dust Palliative 20 Gal/Ton for Aggregates 10 Gal/Ton for Embankment

HMA Cored Samples								
	Α	A B C						
Specification Section	Distance (FT)÷1000	Lanes	Joints	Lifts	Quantity (A x B x C)	Quantity (1 per mile)	Unit	
430.04 l.2.b(1), "General"	1	2	NA	2	4	NA	EA	
			•	Total	4	NA	EA	

Earthwork Summary					
Location	Total Excavation	Common Excavation - Type A (Embankment)*	Common Excavation - Waste		
	(CY)	(CY)	(CY)		
	Α	В	C = A - B		
Sta. 0+34 to Sta. 13+53	970	74	896		

* 25% additional volume is included for shrinkage in earth embankment.

* Common Excavation - Type A is paid for the material reused on site.

Perman

Dscription 6" Yellow Solid Line Sta. 0+34 to Sta. 3+7 Sta. 4+33 to Sta. 7+9 Sta. 7+98 to Sta.11+9 Sta. 12+73 to Sta. 13 Sub Total 6" Yellow Pave

6" White Edge Line

Sta. 0+34 to Sta. 13+ Sta. 0+34 to Sta. 3+3 Sta. 4+33 to Sta. 11+ Sta. 12+73 to Sta. 13 Sub

Total 6" White Pave

12" White Channel Sta. 4+33 to Sta. 7+9

Sub Total 12" White Pave

Total 6" Paveme

Total 12" Paveme

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STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	HLC-0003(023)	60	1
SPE	C CODE BID ITEM	QTY	UNIT
302	0120 AGGREGATE BASE COURSE CL 5 Sta. 0+34 to Sta. 6+00	577	TON
401	0050 TACK COAT Sta. 0+34 to Sta. 6+00	128	GAL
430	0043 SUPERPAVE FAA 43 Sta. 0+34 to Sta. 6+00	246	TON
430	5803 PG 58S-28 ASPHALT CEMENT Sta. 0+34 to Sta. 6+00	15	TON
709	0100 GEOSYNTHETIC MATERIAL TYPE G Sta. 0+34 to Sta. 6+00	922	SY
1635	SUPERPAVE FAA 43		
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ND		HLC-0003(023	3)	60	2
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302	0120	AGGREGATE BASE CO Sta 6+00 to Sta 12+00	OURSE CL 5	562	2 TON
401	0050	TACK COAT Sta 6+00 to Sta 12+00		134	1 GAL
430	0043	SUPERPAVE FAA 43 Sta 6+00 to Sta 12+00		256	5 TON
430	5803	PG 58S-28 ASPHALT C Sta 6+00 to Sta 12+00	EMENT	15	5 TON
709	0100	GEOSYNTHETIC MATE Sta 6+00 to Sta 12+00	ERIAL TYPE	G 900) SY
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ND	HLC-0003(023)	60	3
SPE	C CODE BID ITEM	QTY	UNIT
302	0120 AGGREGATE BASE COURSE CL 5 Sta 12+00 to Sta 13+53	71	TON
401	0050 TACK COAT Sta 12+00 to Sta 13+53	14	GAL
430	0043 SUPERPAVE FAA 43 Sta 12+00 to Sta 13+53	24	TON
430	5803         PG 58S-28 ASPHALT CEMENT           Sta 12+00 to Sta 13+53	2	TON
709	0100 GEOSYNTHETIC MATERIAL TYPE G Sta 12+00 to Sta 13+53	113	SY
635	SUPERPAVE FAA 43		
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251 0	200 SEEDING CLASS Sta 0+34 to Sta 6	8 II +00		0.32 ACR	E		
	Sta 6+00 to Sta 1	2+00		0.47 ACR	E		
253 0	101 STRAW MULCH	+00		0.32 ACP	_		
	Sta 6+00 to Sta 1	2+00		0.47 ACR	E		
261 0	112 FIBER ROLLS 12	IN.			_		
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SPEC C	ODE BID ITEM	QTY UNI	г
<u>251 02</u>	200 SEEDING CLASS II Sta 12+00 to Sta 13+53	0.05 ACF	RE
253 01	101 STRAW MULCH Sta 12+00 to Sta 13+53	0.05 ACF	RE
<u>261 01</u>	112 FIBER ROLLS 12IN Sta 12+00 to Sta 13+53	258 LF	
NOTI EROS	E: SION CONTROL DEVICE LOCATIONS SHOWN A	RE	
appi In th	E FIELD ACCORDING TO CONTRACTOR'S SW	MINED PPP.	
	SEEDING CLASS II & STRAW MU	LCH	
<u></u>	12IN FIBER ROLLS		
	PR	FESSIO,	No.
	Edul	PAUL	1E
		E-8764	SINE
		03/14/25	; <i> \$</i>
	NOR	HDAKO	TA
	HLC-0003(023) SPRIT LAKE NATION BIA DOVINE &		
		ON CONTI	ROL
	DRIMAL BY CY	KD. BY P PB	ROJECT NO. 2211-01400 C KLJ 2025

PRELIMINARY SURVEY COORDINATE AND CURVE DATA									5		
HORIZONTAL ALIGNMENT				CURVE DATA		US PUBLIC LAND SURVEY DATA					
PNT	STATION	NORTHING	EASTING	ARC DEFINITION	DESC.	SEC-TWP-RGE	NORTHING	G EASTING	PN ⁻		
PI	0+00.00	358013.90	2349696.31		WQCOR	Sec 23 T-152 R-65	357975.69	2347424.84	= • ====		
PI	3+15.94	358020.59	2350012.18		EQCOR	Sec 23 T-152 R-65	358086.56	2352723.32	CP1		
PI	3+73.37	358022.81	2350069.56		SESEC	Sec 23 T-152 R-65	355442.56	2352778.40	/ #5 F		
PI	6+97.06	358028.99	2350393.19		SQCOR	Sec 23 T-152 R-65	355387.28	2350130.02	CP2		
PI	8+60.84	358033.12	2350556.92		NQCOR	Sec 23 T-152 R-65	360375.20	2350014.17	, #5 F		
PI	12+10.59	358040.57	2350906.59		NESEC	Sec 23 T-152 R-65	360730.44	2352668.23	CP3		
PI	14+16.18	358045.42	2351112.13						#5 F		
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									Al		
					Assun	ned Coordinates ordinates on this sheet are North Coordinates.They are derived fr	Dakota State om the "North	OP	US OID 18		
NOTES:				Date Survey Completed 10/31/2022	Americ Frame Scale	can Datum of 1983", NAD83, 20 ; North Dakota North Zone; Factor = 1.00000	11 Reference	NGVD-29	IITS		
									TS		

	STATE		PROJECT NO.		SECTION NO.	SHEET NO.				
	ND		HLC-0003(02	23)	81	1				
SURVEY CONTROL POINTS										
PI	PNT NORTHING EASTING ELEV STA OFFSET CONTROL POINT DESCRIPTION									
CF	CP1 363433.60 2336633.70 1460.24 NA NA									
#5 Rebar CP2 357978.82 2350977.65 1634.53 NA NA										
#5	#5 Rebar									
CF #5	P3 3	358081.97	2350047.48	1624.93	NA	NA				
				NONA	LENGING	<hr/>				
				A CA	RL P.	A LAND				
	All coordi on this do	nates and mo	easurements ved from the	DATE 03	- <b>4687</b> - <b>4687</b> 3/14/25/	SURVEYOR				
	Internatio	nal Foot defi	nition.	NORTI	HDAKOTA					
NC S	H MARK		HL SPI	<b>C-0003(023)</b> RIT LAKE NATION BIA ROUTE 6						
D 1	8		KL]	SURVEY C	COORDIN	ATE &				
s				DRWN. BY CHKE CT	PB :	OJECT NO. 2211-01400				
						CKLJ 2025				

SIGN NUMBER	SIGN SIZE	DESCRIPTION	AMOUNT REQUIRED	UNITS PER AMOUNT	UNITS SUB TOTAL
E5-1-48	48"x48"	EXIT GORE		35	
G20-1-60	60"x24"	ROAD WORK NEXT MILES		28	
G20-2-48	48"x24"	END ROAD WORK	2	26	52
G20-4-36	36"x18"	PILOT CAR FOLLOW ME (Mounted to back of pilot car)	1	18	18
G20-4b-36	36"x30"			18	
G20-50a-72 G20-52a-72	72"x36" 72"x24"	ROAD WORK NEXT MILES RT & LT ARROWS		43	
G20-55-96	96"x48"	SPEED LIMIT ENFORCED - MINIMUM FEE \$80 WHEN WORKERS PRESENT		59	
M1-1-36	36"x36"	INTERSTATE ROUTE MARKER (Post and installation only)		11	
M1-4-24 M1-5-24	24"x24"	U.S. ROUTE MARKER (Post and installation only)		10	
M3-1-24	24 x24 24"x12"	NORTH (Mounted on route marker post)		7	
M3-2-24	24"x12"	EAST (Mounted on route marker post)		7	
M3-3-24	24"x12"	SOUTH (Mounted on route marker post)		7	
M3-4-24 M4-8-24	24"x12" 24"x12"	DETOUR (Mounted on route marker post)		7	
M4-9-30	30"x24"	DETOUR ARROW RIGHT or LEFT/AHD AND RT or LT		15	
M4-10-48	48"x18"	DETOUR (INSIDE ARROW) RIGHT or LEFT (Mounted on barricade)		7	
M5-1-21	21"x15"	ADVANCE TURN ARROW RT or LT(Mounted on route marker post)		7	
M6-1-21	21"x15"	DIRECTIONAL ARROW RT of LT (Mounted on route marker post)		9	
M6-1-30	30"x21"	DIRECTIONAL ARROW RT or LT (Mounted on route marker post)		9	
M6-3-21	21"x15"	DIRECTIONAL ARROW UP (Mounted on route marker post)		7	
R1-1-48	48"x48"	STOP		32	
R1-2-60 R2-1-36	36"x48"	SPEED LIMIT (Portable only)		29 30	
R2-1-48	48"x60"	SPEED LIMIT	2	39	78
R2-1aP-24	24"x18"	MINIMUM FEE \$80 (Mounted on Speed Limit post)	2	10	20
R3-2-48	48"x48"	NO LEFT TURN		35	
R4-1-48	48"x60"	DO NOT PASS	2	39	78
R5-1-48	48"x48"	DO NOT ENTER		35	
R6-1-54	54"x18"	ONE WAY RIGHT or LEFT (Mounted on STOP or DO NOT ENTER post)		14	
R7-1-12	12"x18"	NO PARKING ANY TIME		11	l
R10-6-24	24"x36" 48"x30"	STOP HERE ON RED ROAD CLOSED (Mounted on barricade)		16	
R11-2a-48	48"x30"	STREET CLOSED (Mounted on barricade)		12	
R11-3a-60	60"x30"	ROAD CLOSED MILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	
R11-3c-60	60"x30"	STREET CLOSEDMILES AHEAD LOCAL TRAFFIC ONLY (Mtd on barricade)		15	l
R11-4a-60 W1-3-48	60"X30" 48"x48"	STREET CLOSED TO THRU TRAFFIC (Mounted on barricade)		15 35	
W1-4-48	48"x48"	REVERSE CURVE RIGHT or LEFT		35	
W1-4b-48	48"x48"	TWO LANE REVERSE CURVE RIGHT or LEFT		35	
W1-6-48	48"x24"	ONE DIRECTION LARGE ARROW		26	
W3-3-48	40 X40 48"x48"	SIGNAL AHEAD		35	
W3-4-48	48"x48"	BE PREPARED TO STOP	2	35	70
W3-5-48	48"x48"	SPEED REDUCTION AHEAD	2	35	70
W4-2-48	48"x48"	LANE ENDS RIGHT OF LEFT		35	l
W5-8-48	40 X40 48"x48"	THRU TRAFFIC RIGHT LANE		35	
W5-9-48	48"x48"	ROAD WORK TRAFFIC ONLY DOWN & LT or RT ARROW		35	
W6-3-48	48"x48"	TWO WAY TRAFFIC		35	
W8-1-48	48"x48" 48"v48"			35	
W8-7-48	48"x48"	LOOSE GRAVEL		35	İ
W8-11-48	48"x48"	UNEVEN LANES		35	
W8-12-48	48"x48"			35	
W8-53-49	48"x48"	SHOULDER DROP-OFF SYMBOL		35	
W8-54-48	48"x48"	TRUCKS ENTERING AHEAD or FT or MILE		35	İ
W8-55-48	48"x48"	TRUCKS CROSSING AHEAD or FT or MILE		35	
W8-56-48	48"x48"	TRUCKS EXITING HIGHWAY		35	
W13-1P-30	48"X48" 30"x30"	MPH ADVISORY SPEED PLAQUE (Mounted on warning sign post)		35	
W14-3-64	64"x48"	NO PASSING ZONE		28	
W16-2P-30	30"x24"	FEET PLAQUE (Mounted on warning sign post)		10	
W20-1-48	48"x48"		2	35	70
W20-2-48	40 X48" 48"x48"	ROAD or STREET CLOSED AHEAD or FT or MILE		35	
W20-4-48	48"x48"	ONE LANE ROAD AHEAD or FT or _ MILE		35	
W20-5-48	48"x48"	RIGHT or CENTER or LEFT LANE CLOSED AHEAD or FT or _ MILE		35	
W20-7-48	48"x48"	FLAGGER	2	35	70
W20-52P-54	54"x12"	NEXT MILES (Mounted on warning sign post)	2	<b>5</b> 12	10
W21-1-48	48"x48"	WORKERS		35	İ
W21-2-48	48"x48"	FRESH OIL		35	
W21-3-48	48"x48"	ROAD MACHINERY AHEAD or FT or _ MILE		35	I
W21-5-48	48"x48" 48"x48"	BIGHT OF LEET SHOULDER CLOSED		35	
W21-5b-48	48"x48"	RIGHT or LEFT SHOULDER CLOSED AHEAD or FT or MILE		35	l

			S	STATE			PRO	JECT NO.	SECTION	SHEET
			F	ND			HLC-0	003(023)	100	1
						UNITS	UNITS			
SIGN NUMBER	SIGN SIZE	DESCRIPTION		REQUIR	NT RED	PER AMOUNT	SUB TOTAL			
W21-6-48	48"x48"	SURVEY CREW				35				
W21-50-48	48"x48" 48"x48"	MATERIAL ON ROADWAY				35				
W21-52-48	48"x48"	PAVEMENT BREAKS				35				
W21-53-48	48"x48"	RUMBLE STRIPS AHEAD				35				
W24-1-48	48"x48"	DOUBLE REVERSE CURVE				35				
SPECIAL SIG	INS									
								NOTE		
								INUTE:	are	
								required, units wi	ll be	
SPEC & COD	E							calculated using	the formula	
704-1000		TRAFFIC CONTROL SIGNS TOTAL U	NITS				536	from Section III-1	8.06 of the	
								Design Manual.	and	
SPEC &					٦			http://www.dot.ht	.gov/	
CODE		DESCRIPTION	JNIT Q	UANTITY	(					
704-0100	FLAGGIN	G	MHR	240	0					
704-1048	PORTABL	E RUMBLE STRIPS	ACH		1					
704-1050	TYPE I BA	ARRICADES	ACH		-					
704-1060	DELINEA	FOR DRUMS	EACH							
704-1065	TRAFFIC		ACH		0			ARC	FESSIO	
704-1067	DELINEA	TOR	ACH	80				(OPIN		4
704-1072	FLEXIBLE	DELINEATORS	EACH							101
704-1080 704-1081	VERTICA	BLE VERTICAL PANELS PANELS - BACK TO BACK	ACH	40	D			2que	RNEM	161
704-1085	SEQUEN	CING ARROW PANEL - TYPE A	EACH					S D3		Ī
704-1086	SEQUEN	CING ARROW PANEL - TYPE B	EACH					( <u>0</u> ) P	E-8764	
704-1087 704-1185	PILOT CA			120	D			12 DATE	03/14/2	5 /5/
704-1500	OBLITER	ATION OF PVMT MK	SF	2818	В					
704-3501	PORTABL	E PRECAST CONCRETE MED BARRIER			-			\ Am	/	A
762-0200	RAISED F	AVEMENT MARKERS	ACH		-			RI	HDAKO	~
762-0420	SHORT T	ERM 4IN LINE - TYPE R	F							
762-0430 762-0432	SHORT T	ERM 4IN LINE - I YPE NR ERM 6IN LINE-TYPE NR	_⊦   _F	437!	5		_			
							1	rattic Control Device	s List	
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