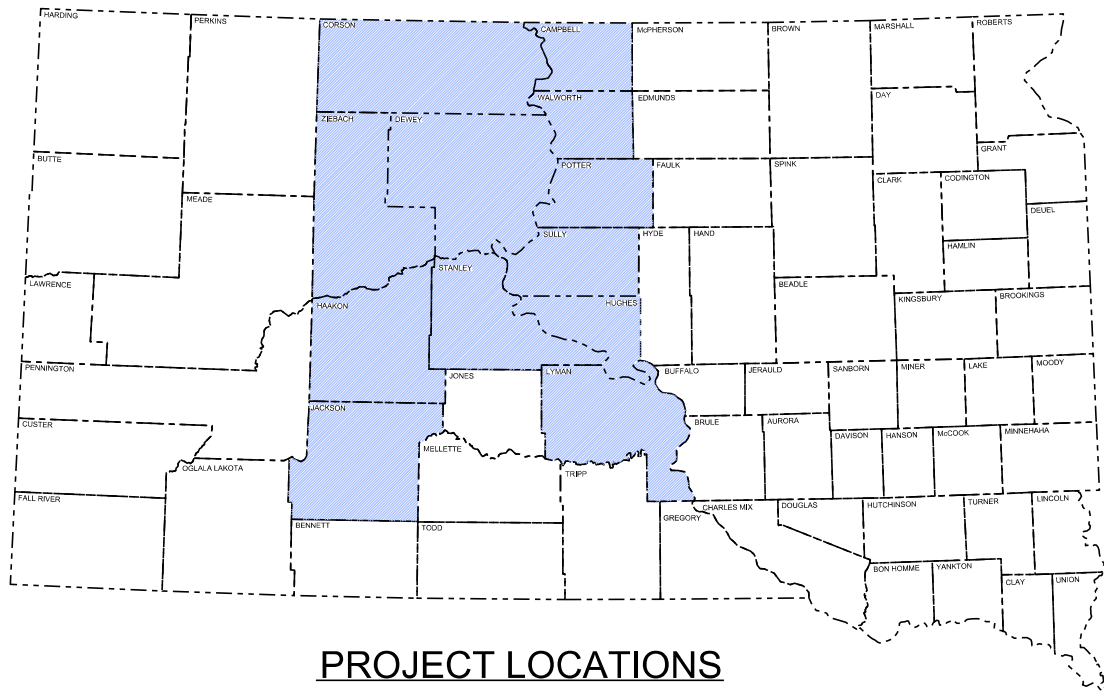


Plot Scale - 1:200



PROJECT LOCATIONS

DESIGN DESIGNATION

(US12)	
ADT (2025)	935
ADT (2045)	1349
DHV	195
D	50%
T DHV	10.7%
T ADT	23.6%
V	65 MPH

DESIGN DESIGNATION

(SD10)	
ADT (2025)	360
ADT (2045)	439
DHV	58
D	51%
T DHV	10.6%
T ADT	23.2%
V	65 MPH

DESIGN DESIGNATION

(SD73)	
ADT (2025)	635
ADT (2045)	962
DHV	153
D	50%
T DHV	14.1%
T ADT	30.9%
V	65 MPH

DESIGN DESIGNATION

(US14)	
ADT (2025)	1664
ADT (2045)	2449
DHV	348
D	50%
T DHV	7.8%
T ADT	17.1%
V	65 MPH

DESIGN DESIGNATION

(SD20)	
ADT (2025)	140
ADT (2045)	209
DHV	25
D	50%
T DHV	11.1%
T ADT	24.5%
V	65 MPH

DESIGN DESIGNATION

(SD130)	
ADT (2025)	307
ADT (2045)	485
DHV	65
D	51%
T DHV	1.4%
T ADT	3.0%
V	65 MPH

DESIGN DESIGNATION

(US83)	
ADT (2025)	1196
ADT (2045)	1821
DHV	248
D	51%
T DHV	13.9%
T ADT	30.6%
V	65 MPH

DESIGN DESIGNATION

(SD34)	
ADT (2025)	716
ADT (2045)	1056
DHV	125
D	50%
T DHV	10.4%
T ADT	22.8%
V	65 MPH

DESIGN DESIGNATION

(SD271)	
ADT (2025)	117
ADT (2045)	143
DHV	19
D	51%
T DHV	9.9%
T ADT	21.8%
V	65 MPH

DESIGN DESIGNATION

(US212)	
ADT (2025)	860
ADT (2045)	1273
DHV	203
D	50%
T DHV	6.7%
T ADT	14.8%
V	65 MPH

DESIGN DESIGNATION

(SD63)	
ADT (2025)	460
ADT (2045)	661
DHV	105
D	50%
T DHV	5.7%
T ADT	12.6%
V	65 MPH

DESIGN DESIGNATION

(SD1804)	
ADT (2025)	363
ADT (2045)	619
DHV	80
D	50%
T DHV	6.0%
T ADT	13.2%
V	65 MPH

DESIGN DESIGNATION

(SD65)	
ADT (2025)	492
ADT (2045)	721
DHV	115
D	50%
T DHV	8.2%
T ADT	18.0%
V	65 MPH

DESIGN DESIGNATION

(SD1806)	
ADT (2025)	307
ADT (2045)	440
DHV	70
D	50%
T DHV	4.6%
T ADT	10.1%
V	65 MPH

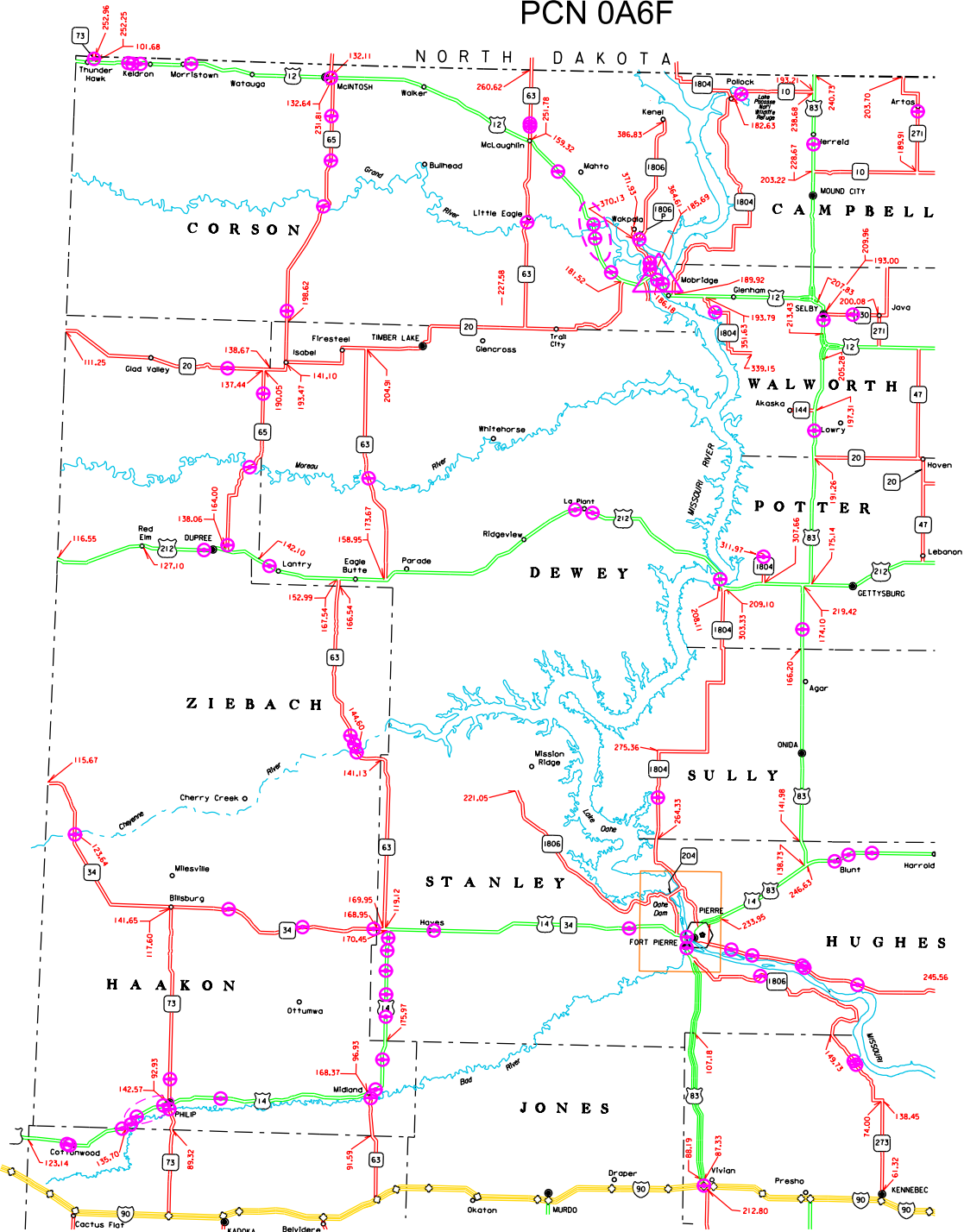
STORM WATER PERMIT

(No Permit Required)

STATE OF SOUTH DAKOTA
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED

PROJECT P 0030(00)
US HIGHWAYS 12, 14, 83, & 212
SD HIGHWAYS 10, 20, 34, 63, 65,
73, 130, 271, 1804 & 1806

REGIONWIDE BRIDGE CLEANING
PCN 0A6F



- Indicates Bridge Site
- Indicates Bridge Repair site.
- Indicates Asphalt Chip Seal or Rout and Seal Cracks project at bridge site.



STATE OF SOUTH DAKOTA	PROJECT	SHEET	TOTAL SHEETS
	P 0030(00)	1	10

Plotting Date: 04/27/2022

INDEX OF SHEETS

Sheets 1	Title Sheet
Sheets 2-8	Estimates with General Notes & Tables
Sheets 9-10	Standard Plates

Plot Scale - 1:200

Plotted From -

ESTIMATE OF QUANTITIES

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
009E4100	Construction Schedule, Category I	Lump Sum	LS
634E0110	Traffic Control Signs	89.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
900E2030	Miscellaneous Work	82	Site

ENVIRONMENTAL COMMITMENTS

The SDDOT is committed to protecting the environment and uses Environmental Commitments as a communication tool for the Engineer and Contractor to ensure that attention is given to avoid, minimize, and/or mitigate an environmental impact. Environmental commitments to various agencies and the public have been made to secure approval of this project. An agency with permitting authority can delay a project if identified environmental impacts have not been adequately addressed. Unless otherwise designated, the Contractor's primary contact regarding matters associated with these commitments will be the Project Engineer. During construction, the Project Engineer will verify that the Contractor has met Environmental Commitment requirements. These environmental commitments are not subject to change without prior written approval from the SDDOT Environmental Office.

Additional guidance on SDDOT's Environmental Commitments can be accessed through the Environmental Procedures Manual found at: <<https://dot.sd.gov/doing-business/environmental/about-environmental/>>

For questions regarding change orders in the field that may have an effect on an Environmental Commitment, the Project Engineer will contact the Environmental Engineer at 605-773-3180 or 605-773-4336 to determine whether an environmental analysis and/or resource agency coordination is necessary.

Once construction is complete, the Project Engineer will review all environmental commitments for the project and document their completion.

COMMITMENT B: FEDERALLY THREATENED, ENDANGERED, AND PROTECTED SPECIES

COMMITMENT B2: WHOOPING CRANE

The Whooping Crane is a spring and fall migratory bird in South Dakota that is about 5 feet tall and typically stops on wetlands, rivers, and agricultural lands along their migration route. An adult Whooping Crane is white with a red crown and a long, dark, pointed bill. Immature Whooping Cranes are cinnamon brown. While in flight, their long necks are kept straight, and their long dark legs trail behind. Adult Whooping Cranes' black wing tips are visible during flight.

Action Taken/Required:

Harassment or other measures to cause the Whooping Crane to leave the site is a violation of the Endangered Species Act. If a Whooping Crane is sighted roosting in the vicinity of the project, borrow pits, or staging areas associated with the project, cease construction activities in the affected area until the Whooping Crane departs and immediately contact the Project

Engineer. The Project Engineer will contact the Environmental Office so that the sighting can be reported to USFWS.

COMMITMENT B4: BALD AND GOLDEN EAGLE

Bald and/or Golden eagles are known to occur in this area.

Action Taken/Required:

If a nest is observed within one mile of the project site, notify the Project Engineer immediately so that he/she can consult with the Environmental Office for an appropriate course of action.

COMMITMENT C: WATER SOURCE

If a Contractor needs access to state waters for extraction, the Contractor must obtain a water right, through the application of a Temporary Permit to Use Public Waters before work begins.

The Contractor will not withdraw water with equipment previously used outside the State of South Dakota or previously used in aquatic invasive species (AIS) positive waters within South Dakota without prior approval from the SDDOT Environmental Office. To prevent and control the introduction and spread of invasive species into the project vicinity, all equipment will be power washed with hot water (≥140 °F) and completely dried for a minimum of 7 days prior to subsequent use. South Dakota administrative rule 41:10:04:02 forbids the possession and transport of AIS; therefore, all attached dirt, mud, debris and vegetation must be removed and all compartments and tanks capable of holding standing water must be drained. This includes, but is not limited to, all equipment, pumps, lines, hoses and holding tanks.

Action Taken/Required:

The Contractor will obtain the necessary permits from the regulatory agencies such as the South Dakota Department of Agriculture and Natural Resources (SDDANR) and the United States Army Corps of Engineers (USACE) prior to water extraction activities.

Temporary permit to use public waters for highway construction purposes application can be found on the SDDANR website: <https://danr.sd.gov/OfficeOfWater/WaterRights/PermitForms/default.aspx>

Additional information and mapping of water sources impacted by Aquatic Invasive Species in South Dakota can be accessed at: < <https://sdleastwanted.sd.gov/maps/default.aspx> >

South Dakota Administrative Rule 41:10:04 Aquatic Invasive Species: < <https://sdlegislature.gov/rules/DisplayRule.aspx?Rule=41:10:04> >

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor will furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may not be disposed of within the Public ROW.

The waste disposal site(s) will be managed and reclaimed in accordance with the following from the General Permit for Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Agriculture and Natural Resources.

The waste disposal site(s) will not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Environmental Office and the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements will apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials will be buried in a trench separate from wood debris. The final cover over the construction and/or demolition debris will consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the Public ROW will be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor will control the access to waste disposal sites not within the Public ROW with fences, gates, and placement of a sign or signs at the entrance to the site stating, "No Dumping Allowed".
2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period not to exceed the duration of the project. Prior to project completion, the waste will be removed from view of the ROW or buried, and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06. Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) will be incidental to the various contract items.

COMMITMENT I: HISTORIC PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historic Preservation Office (SHPO or THPO) for all work included within the project limits and all department designated sources and designated option material sources, stockpile sites, storage areas, and waste sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require a cultural resource review prior to scheduling the pre-construction meeting. This work includes but is not limited to: Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas.

The Contractor will arrange and pay for a record search and when necessary, a cultural resource survey. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review if the site was previously surveyed; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor will provide ARC with the following: a topographical map or aerial view in which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor will submit the cultural resources survey report to SDDOT Environmental Office, 700 East Broadway Avenue, Pierre, SD 57501-2586. SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

In the event of an inadvertent discovery of human remains, funerary objects, or if evidence of cultural resources is identified during project construction activities, then such activities within 150 feet of the inadvertent discovery will immediately cease and the Project Engineer will be immediately notified. The Project Engineer will contact the SDDOT Environmental Office, who will contact the appropriate SHPO/THPO within 48 hours of the discovery to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility obtaining any additional permits and clearances for Contractor furnished material sources, material processing sites, stockpile sites, storage areas, plant sites, and waste areas that affect wetlands, threatened and endangered species, or waterways. The Contractor will not utilize a site known or suspected of having contaminated soil or water. The Contractor will provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

SCOPE OF WORK

The Contractor will furnish all necessary vehicles, equipment, supervision, labor, materials, tools, water, debris disposal and incidentals necessary to complete the work to the satisfaction of the Engineer. Work to be done consists of cleaning/sweeping bridge decks, adjacent approach slabs, and transverse joints located within the bridge deck and approach slabs. The cleaning/sweeping operation will consist of removing all dirt, mud, silt, sand,

paper, rocks, cans, glass, dead animal carcasses, tire retreads, vehicle parts and other debris. Unforeseen conditions, such as weather, can bring unusual amounts of debris to bridge sites. Removal of all debris regardless of scope and magnitude is the responsibility of the Contractor.

Contractor will be required to provide specialized heavy equipment such as sweepers, haul trucks and air compressors to remove debris, sand, mud and silt from bridge sites as indicated in the plans.

For each bridge site the Contractor will perform a cleaning/sweeping once during the terms of this contract. The cleaning/sweeping will be conducted during the months of September and October.

GENERAL REQUIREMENTS

Contractor will evaluate actual bridge site characteristics before submitting a bid. It is the intent of these plans to provide for cleaning and sweeping of all bridge decks, adjacent approach slabs, and transverse joints located within the bridge deck and approach slabs within the areas described herein.

The TABLE OF BRIDGES contained within these plans provides the list of bridge sites that require cleaning/sweeping. This table also provides information on bridge length, width and size of approach slabs. Not all bridges contain approach slabs. The title sheet provides a general idea of bridge site locations.

The Contractor will comply with all Federal, State, County and local regulations, including disposal of debris collected.

All work will be accomplished during daylight hours.

Equipment and vehicles will not be stored within the highway Right-of-Way.

Approach Slabs as defined for this contract are reinforced concrete slabs located at each end of the bridge deck. Approach slabs typically have curbs located along the edges of the slab. The length of approach slabs varies in length and in some cases, consist of 2 slabs. The end of an approach slab is typically defined by a wide joint of over 6 inches or 2 joints located within approximately 2 feet between the joints.

TRAFFIC CONTROL

For a 2-lane roadway with traffic in opposing directions, traffic control will be as per Standard Plate 634.23. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON A 2 LANE ROADWAY detail.

For a 4-lane divided roadway, traffic control will be as per Standard Plate 634.64. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON DIVIDED 4-LANE ROADWAY detail.

For a 4-lane undivided roadway, traffic control will be as per Standard Plate 634.47. On those roadways where there is a center raised median that requires sweeping, traffic control will be as per Standard Plate 634.48. As an alternate, the Contractor may use the traffic control plan MOBILE SWEEPING OPERATIONS ON DIVIDED 4-LANE ROADWAY detail.

Vehicles and equipment working in traffic or alongside traffic will be equipped with a flashing amber light visible from all directions at a minimum distance of 1/2 mile. The amber light will be mounted on the uppermost part of the Contractor's vehicle. Lights must flash at 75 ±15 flashes per minute. The sweeper will have lights, meeting the aforementioned requirements, at the front and back of the equipment. Vehicle flasher/hazard lights are not acceptable.

SWEEPING REQUIREMENTS

Sweeping areas will include all curb lines along both sides of the bridge deck and approach slabs, or to the edge of the pavement or guardrail where no curbs exist, along all curbs on raised medians, and over all portions of painted medians. Contractor is responsible for sweeping from the marked white or yellow edge line to the edge of bridge deck or approach slab regardless of the width. If there are no marked white or yellow edge lines, a minimum width of 5 feet will be swept along the edges of the bridge deck or approach slab.

All debris will be collected.

Effort beyond a mechanical sweeper may be required to loosen harden and packed material on the surface and along the curb face.

Sweeping will be accomplished in the same direction as traffic flow at all times.

Contractor will make every reasonable effort to minimize streaks left by sweepers.

At least 2 passes of the sweeper will be made over areas that require sweeping. The total number of passes required will vary based upon the width of sweeping required and the width of the sweeper used.

Sweeping operations will extend at least 50 feet beyond both ends of the approach slab, or end of bridge deck if no approach slab is present. There should be no ridge or pile of material left on the roadway or shoulder surface at the end of the sweeping operations. This may require hand work under the guardrail.

JOINT CLEANING REQUIREMENTS

Transverse joint openings located on the bridge deck and approach slabs will be cleaned of debris with compressed air, or other methods approved by the Engineer. Joint cleaning will be accomplished at the same time as sweeping of the bridge deck and approach slabs. Debris will not be blown over the edge of the deck onto the underlying roadway or waterway channel. The entire length of the joint will be cleaned. The Contractor does not need to clean beneath finger joints.

BRIDGE CLEANING CONFLICTS

There are bridges that are scheduled for construction during the calendar year. This construction may conflict with the completion of 5 bridge cleanings. These potential conflicts are noted in The TABLE OF BRIDGES in the far-right column. The Contractor will work with the Engineer to determine what locations have conflicts at the time cleaning is being scheduled.

DISPOSAL

All debris collected will become the property of the Contractor and will be properly disposed of.

NO “on road” storage or dumping will be permitted.

EQUIPMENT

All equipment will be adequately maintained both mechanically and visually and will be fully operational during all sweeping operations.

All equipment will be properly registered and insured according to motor vehicles laws of the state of South Dakota.

All units will be clearly and prominently marked with Contractor’s company name.

AIR COMPRESSOR

Compressor will have a rated pressure of 100 psi with a minimum pressure level of 80 psi. Compressor will be capable of delivering a minimum of 180 CFM.

SWEeper

Minimum width of main broom or pickup head will be 50 inches. Sweeper will utilize both left side and right side brooms for picking up debris. Sweeper will have an internal self-contained storage hopper. Storage hopper will be a minimum capacity of 3.4 Cubic Yards.

SWEeper BRUSH/BROOM REPLACEMENT

Worn brushes and brooms will be replaced and adjusted to ensure maximum efficiency.

- a. Six (6) inches on the gutter brushes;
- b. As required on trash direction brush;
- c. Six (6) inches on the main broom.

These will be minimum criteria and final determination will be on the effectiveness of all brushes and brooms.

ATTENUATOR

Truck mounted or trailer attenuators may be utilized, provided attenuators conform to and are maintained in accordance with the requirements of Section 634.2 and Part 6 of the MUTCD for Category III traffic control devices.

DUST CONTROL

Contractor will use all reasonable methods to minimize dust emissions during the performance of this Contract. The Contractor will not create dust in such a quantity to create a nuisance, danger, or impair visibility.

Spraying of water during sweeping operations may be required to control dust.

PERFORMANCE

Primary objectives of the cleaning/sweeping program are:

- Remove debris buildup to reduce infiltration of roadway deicers into concrete.
- Prevent debris from entering storm drains and bridge deck drains.
- Prevent debris from entering waterways.
- Maintain gutter flow lines free of debris for free flow of water.
- Maintain a state of cleanliness for safety.

Sweeping will normally consist of 2 passes (or more) over an area. Contractor will make as many passes or such extra effort as may be required to adequately clean the bridge deck and approach slabs. Obstructions such as accumulations of silt, compacted dirt, leaves and similar debris will be removed. Items such as small tree limbs, dead animal carcasses, tire retreads, vehicle parts and rocks may require removal prior to sweeping with a mechanical sweeper.

Inspections will be performed on a regular basis, as well as spot checks and response to complaints.

Engineer will decide adequacy of cleaning/sweeping.

RECORD KEEPING

Contractor will complete the RECORD OF BRIDGE CLEANING detail sheet. Contractor will document arrival time at each bridge site, start and finish time of sweeping operations, number of passes made with sweeper, and departure time from each bridge site. Payment for services will not be made until document is completed and submitted to Engineer. Recording keeping will be kept up to date at all times and records will be made available to Engineer at any time.

The Contractor may submit to the Area Engineer other methods of documenting cleaning progress. The Contractor will submit alternate

documenting methods a minimum of 1 week prior to the preconstruction meeting.

EXAMPLE:

RECORD OF BRIDGE CLEANING						
ROUTE	MRM	STR. NO.	Arrival Date and Time	Time Sweeping Started	Time Sweeping Ended	Departure Time
(Example entry)						
SD 28	123.57	12-224-558	4/6/18	4:05 PM	4:30 PM	4:40 PM
			3:35 PM			
(Example entry when doing multiple bridges on divided highway)						
I-29 N B & SB	Exit 140 to Exit 150	6 bridges total	4/10/18	8:20 AM	10:30 AM	10:45 AM
			7:50am			

BASIS OF MEASUREMENT AND PAYMENT

All costs for equipment, materials, labor and incidentals to clean/sweep will be incidental to the contract unit price per site for MISCELLANEOUS WORK. A cleaning/sweeping in September and/or October will constitute 1 site payment. The cost for disposal of all refuse materials and debris, including dump fees, will be included in the contract unit price per site for MISCELLANEOUS WORK.

All costs for shadow vehicles, traffic control signs, arrow boards, flaggers, pilot car, impact attenuators and other safety devices will be incidental to the contract lump sum price for TRAFFIC CONTROL, MISCELLANEOUS.

ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
R4-2	PASS WITH CARE	2	24" x 30"	5.0	10.0
W7-3aP	NEXT MILES (plaque)	2	36" x 30"	7.5	15.0
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			
		89.0			

TABLE OF BRIDGES



Route	MRM	Structure Number	Location	Structure Length (Ft)	Bridge Roadway Width (Ft)	Deck Area (SF)	Skew Angle	Skew Direction	Approach Slab Quantity (SF)	Strip Seal Joint Quantity (LF)	Compression Joint Seal (LF)	Conflict
SD010	183.36	11-104-026	1.0 E OF POLLOCK	94	30	2,820	0					
US083	232.24	11-200-084	1.0 S OF HERREID	122	36	4,403	0		1515	76		
SD271	197.93	11-330-041	0.2 S OF ARTAS	106	36	3,816	0		1515	76		
IRR SD073	252.86	16-026-001	0.1 S NORTH DAKOTA LINE	199	32	6,368	6	Right	1558		68	
IRR US012	105.64	16-066-010	6.0 E PERKINS CO LINE	54	30	1,620	0					
IRR US012	106.34	16-072-011	6.7 E PERKINS CO LINE	80	30	2,400	0					
IRR US012	107.55	16-083-011	7.9 E PERKINS CO LINE	237	36	8,528	45	Right	2575	108		
IRR US012	114.46	16-154-005	1.3 E OF MORRISTOWN	120	36	4,320	0		1648		76	
IRR SD065	199.03	16-280-326	0.4 N DEWEY CO LINE	110	30	3,285	0					
IRR SD065	214.65	16-323-181	15 N DEWEY CO LINE	399	32	12,758	20	Right	1530		68	
IRR US012	132.45	16-328-018	0.2 W JCT SD 65 S	198	36	7,124	30	Left	2102		76	
IRR SD065	226.46	16-328-073	5.3 S JCT US 12	152	30	4,545	0					
IRR SD065	220.95	16-329-127	10.6 S JCT US 12	175	30	5,235	0					
IRR SD063	240.5	16-578-202	11.3 S OF MCLAUGHLIN	504	32	16,128	0			69		
IRR SD063	253.6	16-580-075	1.8 N OF MCLAUGHLIN	194	36	6,995	38	Left	2390		76	
IRR SD063	252.78	16-580-084	0.9 N OF MCLAUGHLIN	158	36	5,681	20	Left	1659		76	
IRR US012	164.79	16-617-132	5.5 SE OF MCLAUGHLIN	117	30	3,510	0					
IRR US012	173.4	16-665-200	8.2 NW JCT SD 20	556	30	16,680	0			33	33	X
IRR US012	174.92	16-666-216	6.6 NW JCT SD 20	182	30	5,460	0		1275	64		X
IRR US012	180.08	16-689-259	1.5 NW JCT SD 20	143	30	4,299	30	Right	1661		64	
IRR SD1806	370.35	16-720-217	5.7 N JCT US 12	232	24	5,568	0					
IRR SD1806	367.64	16-732-234	3.0 N JCT US 12	204	28	5,704	45	Left	1789	87		
IRR SD1806	365.72	16-737-253	0.4 N JCT US 12	4,001	24	96,031	0			132		
IRR US212	143.96	21-021-307	1.8 E ZIEBACH CO LINE	120	40	4,784	15	Left	1737		84	
IRR SD063	186.38	21-148-201	13 N JCT US 212	394	36	14,184	0					
IRR US212	186.54	21-411-226	0.6 W OF LAPLANT	119	36	4,284	0		1547			
IRR US212	187.76	21-424-228	0.6 E OF LAPLANT	119	36	4,284	0		1553			
IRR SD034	123.87	28-035-151	ZIEBACH CO LINE	1,204	30	36,120	0					
US014	136.81	28-122-513	1.1 NE JACKSON CO LINE	154	30	4,605	0					
US014	138.2	28-131-503	2.5 NE JACKSON CO LINE	154	30	4,605	0					X
US014	141.65	28-162-490	1.0 SW OF PHILIP	282	44	12,408	0		1914	92		X
SD073	95.52	28-170-459	2.5 N JCT US 14	119	30	3,555	0					
SD073	92.29	28-171-492	0.6 S JCT US 14	209	30	6,270	0					
SD034	148.77	28-231-240	7.1 E JCT SD 73 S	199	30	5,955	0				32	
US014	149.03	28-234-477	6.4 E OF PHILIP	208	36	7,470	0		1645		75	
SD034	159.92	28-331-260	9.1 W STANLEY CO LINE	205	30	6,159	0					

TABLE OF BRIDGES



PROJECT	SECTION	SHEET
P 0030(00)		6 of 10

Route	MRM	Structure Number	Location	Structure Length (Ft)	Bridge Roadway Width (Ft)	Deck Area (SF)	Skew Angle	Skew Direction	Approach Slab Quantity (SF)	Strip Seal Joint Quantity (LF)	Compression Joint Seal (LF)	Conflict
SD063	144.32	28-392-038	0.5 S ZIEB-HAAK CO LINE	216	32	6,915	15	Right	2656	68		
SD034	168.5	28-415-260	0.5 W STANLEY CO LINE	117	30	3,510	0					
SD063	96.57	28-423-469	0.3 S JCT US 14	284	30	8,511	0		1507	35	68	
US014	169.26	28-430-462	0.6 E OF MIDLAND	129	30	3,855	0					
US014	173.06	28-437-430	3.2 S STANLEY CO LINE	106	30	3,165	0					
US014	228.35	33-100-118	HUGHES - STANLEY CO LINE	1,686	62	104,544	0		3099			
SD034	214.76	33-156-135	5.1 E JCT US 14 & 83	144	30	4,305	0					
SD034	217.04	33-178-141	7.3 E JCT US 14 & 83	152	30	4,554	30	Left				
SD034	223.87	33-245-152	14.2 E JCT US 14 & 83	247	30	7,410	55	Left		112		
SD034	223.98	33-246-153	14.3 E JCT US 14 & 83	284	30	8,520	0			65		
US014	250.47	33-286-020	0.4 W OF BLUNT	100	44	4,378	0		1867			
US014	252.35	33-302-015	1.4 NE OF BLUNT	113	44	4,950	0		1880			
SD034	232.23	33-322-176	22.5 E JCT US 14 & 83	197	30	5,895	0					
US014	254.76	33-327-010	3.5 E OF BLUNT	134	30	4,005	0					
US014	123.83	36-067-016	0.7 E PENNINGTON CO LINE	98	30	2,925	0					
US014	128.44	36-112-021	5.3 E PENNINGTON CO LINE	132	30	3,945	0					
US014	131.97	36-145-015	3.8 SW HAAKON CO LINE	110	30	3,300	0					
US083	87.36	43-026-195	US 83 N INTERCHANGE	372	40	14,888	25	Left	2219	84		
IRR SD1806	145.31	43-216-034	6.7 NW JCT SD 273	56	36	2,016	0					
IRR SD1806	145.02	43-218-036	6.4 NW JCT SD 273	137	36	4,932	0					
IRR US212	208.53	54-056-158	DEWEY - POTTER CO. LINE	4,619	26	120,102	0			115	917	
SD1804	311.36	54-091-126	3.7 N JCT US 212	146	32	4,672	0					
US083	167.73	54-160-224	1.6 N SULLY CO LINE	90	40	3,592	15	Right	1717			
US014	185.67	59-020-322	4.2 S JCT SD 34	94	30	2,820	0					
US014	182.28	59-020-358	7.8 S JCT SD 34	140	30	4,200	0					
US014	177.73	59-020-402	1.9 N HAAKON CO LINE	93	30	2,790	0					
US014	188.15	59-023-299	1.9 S JCT SD 34	117	30	3,510	0					
US014	189.45	59-025-286	0.6 S JCT SD 34	83	30	2,490	0					
US014	195.21	59-078-280	0.3 E OF HAYES	153	40	6,120	0		1821	84		
US014	220.39	59-328-274	7.9 W JCT US 83	129	40	5,152	0		1717			
US083	118.5	59-398-295	WITHIN FORT PIERRE	434	48	20,832	0		2353	101		
SD1806	170.23	59-493-328	11.2 SE JCT US 83	119	32	3,811	20	Right				
SD1804	269.66	60-130-188	5.2 N HUGHES CO LINE	113	30	3,378	20	Left				
IRR US012	187.15	65-000-020	CORSON - WALWORTH CO LN	5,059	26	131,521	0		560	112	630	X
IRR AR US012	187.36	65-005-025	0.3 E CORSON CO LINE	209	30	6,270	0					
SD1804	349.13	65-072-059	2.5 S JCT US 12	129	24	3,086	0					

TABLE OF BRIDGES

Route	MRM	Structure Number	Location	Structure Length (Ft)	Bridge Roadway Width (Ft)	Deck Area (SF)	Skew Angle	Skew Direction	Approach Slab Quantity (SF)	Strip Seal Joint Quantity (LF)	Compression Joint Seal (LF)	Conflict
US083	195.56	65-200-197	4.3 N POTTER CO LINE	109	36	3,924	0		1667		76	
US012	210.47	65-210-063	0.2 S JCT SD 130 E	157	52	8,180	0					
SD130	196.64	65-248-059	3.6 E OF SELBY	161	36	5,792	30	Left	1553		76	
IRR US212	135.49	69-194-290	0.5 W OF DUPREE	129	30	3,855	0					
IRR SD020	130.58	69-195-060	7.5 E OF GLAD VALLEY	158	36	5,670	0		2576			
IRR SD065	164.2	69-220-289	0.2 N JCT US 212	77	32	2,458	0		1389			
IRR SD065	176.84	69-249-183	12.8 S JCT SD 20	370	36	13,320	0			77		
IRR SD065	186.43	69-260-092	3.1 S JCT SD 20	93	32	2,982	25	Right	1392			
IRR SD063	146.47	69-383-519	1.7 N HAAKON CO LINE	119	30	3,555	0					
IRR SD063	144.83	69-390-535	ZIEBACH-HAAKON CO LINE	2,109	32	67,488	0		1632		69	
Project Total Qtys						996,055			61,218	1,590	2,564	

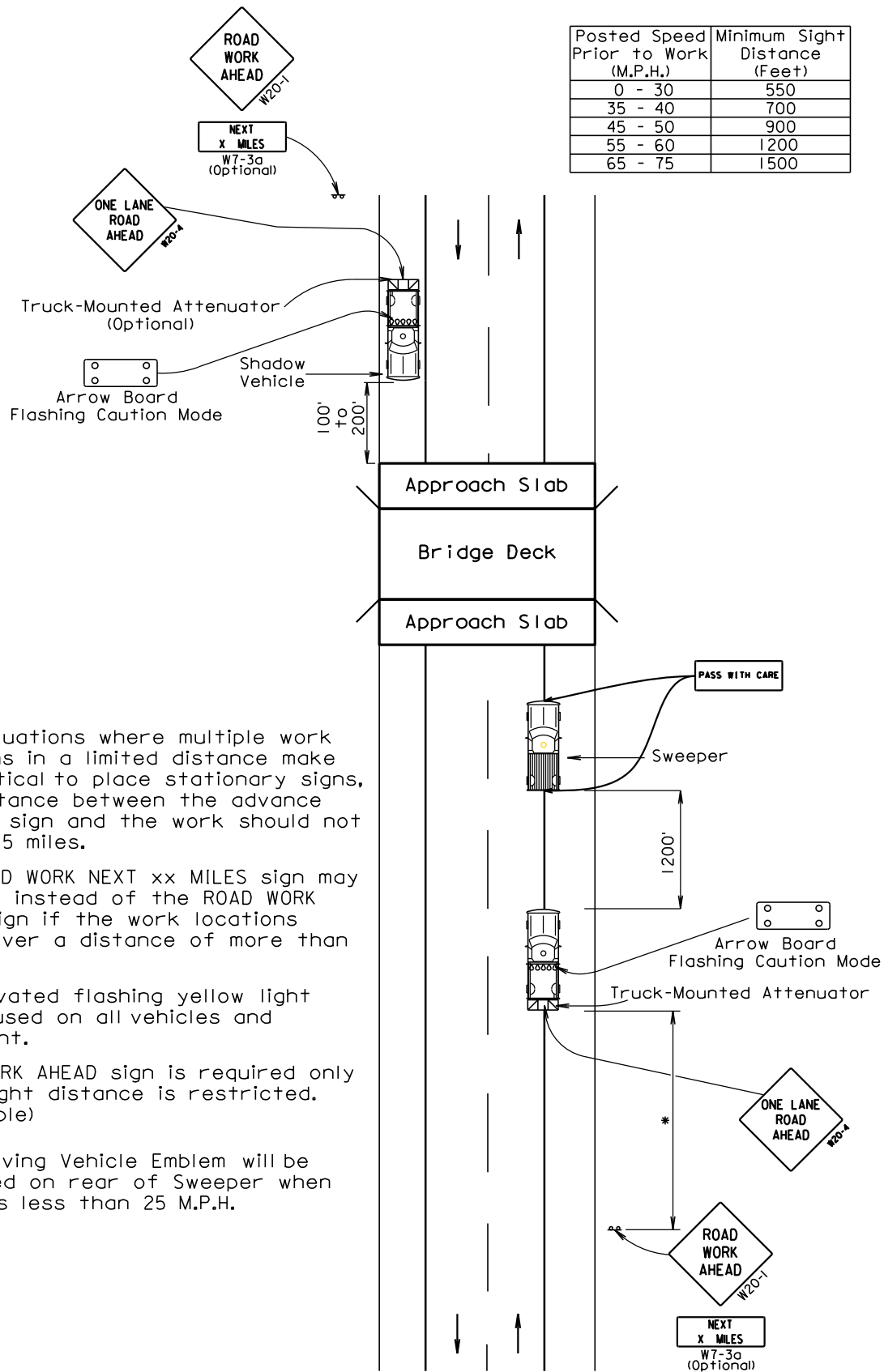
RECORD OF BRIDGE CLEANING



RECORD OF BRIDGE CLEANING						
ROUTE	MRM	STR. NO.	Arrival Date and Time	Time Sweeping Started	Time Sweeping Ended	Departure Time
Contractor Signature			Date			

RECORD OF BRIDGE CLEANING						
ROUTE	MRM	STR. NO.	Arrival Date and Time	Time Sweeping Started	Time Sweeping Ended	Departure Time
Contractor Signature			Date			

MOBILE SWEEPING OPERATIONS
ON A 2-LANE ROADWAY



* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

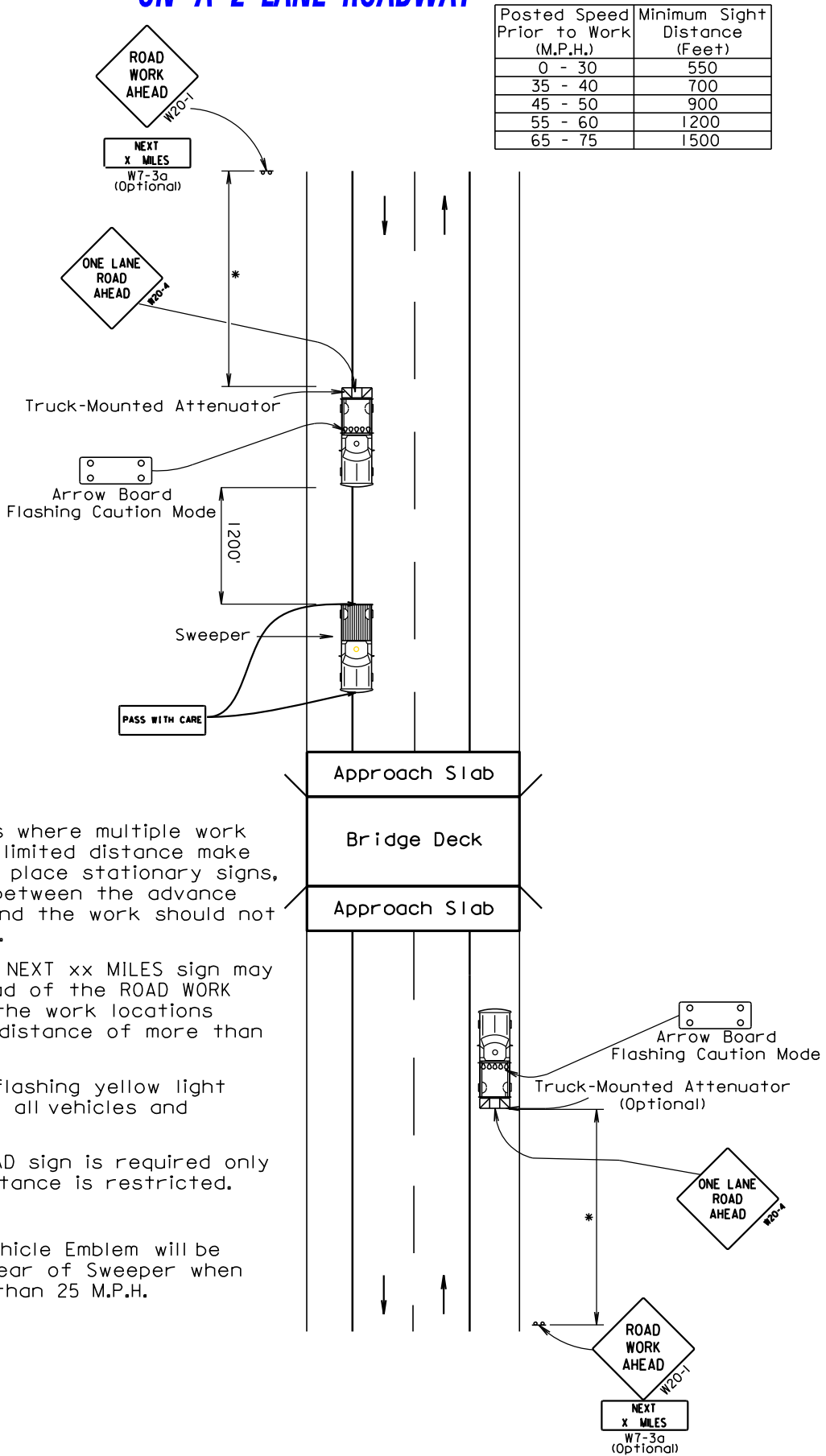
The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.

MOBILE SWEEPING OPERATIONS
ON A 2-LANE ROADWAY



* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.

MOBILE SWEEPING OPERATIONS
ON A DIVIDED 4-LANE ROADWAY

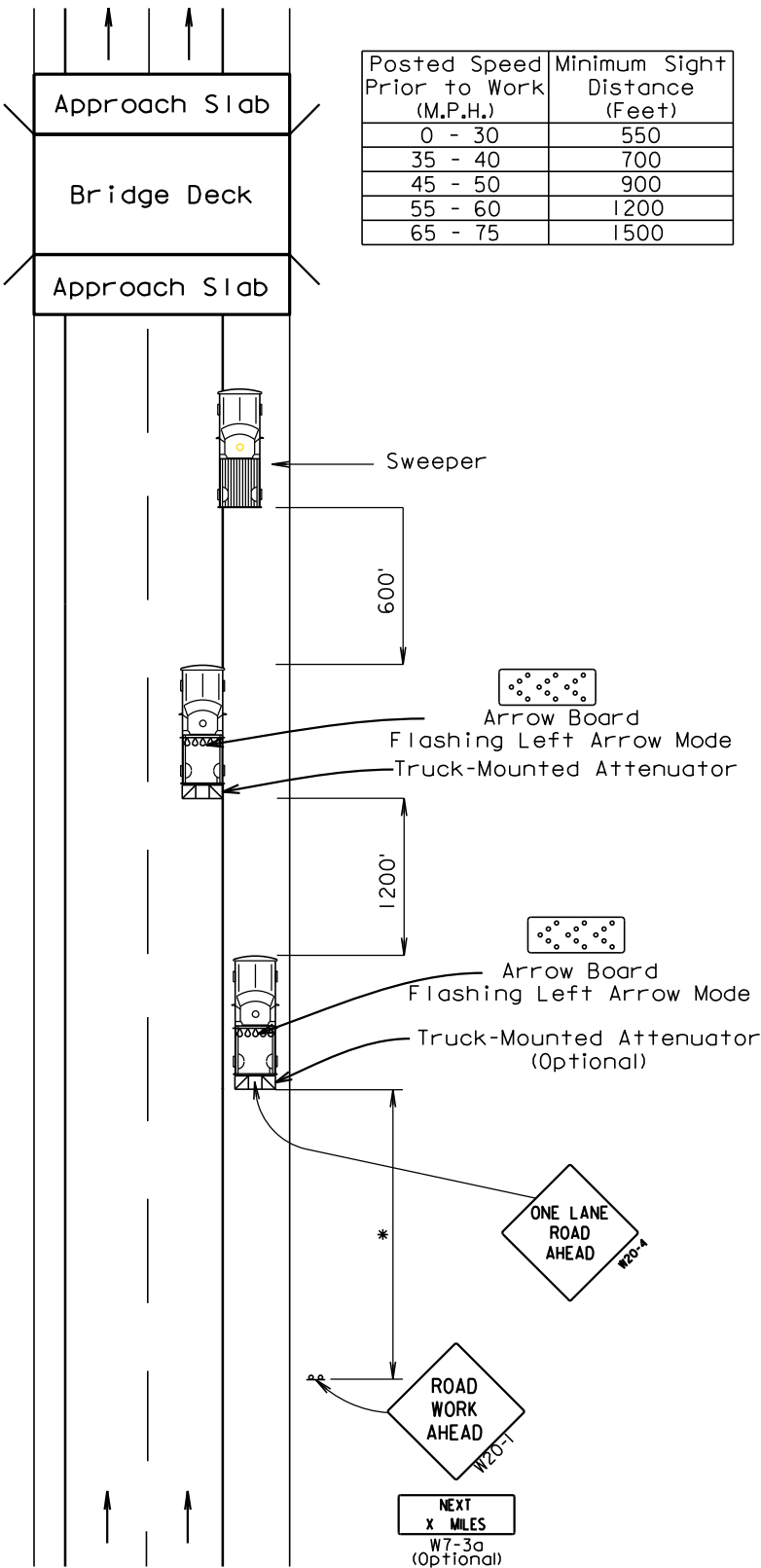
* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.



MOBILE SWEEPING OPERATIONS
ON A DIVIDED 4-LANE ROADWAY

* In situations where multiple work locations in a limited distance make it practical to place stationary signs, the distance between the advance warning sign and the work should not exceed 5 miles.

The ROAD WORK NEXT xx MILES sign may be used instead of the ROAD WORK AHEAD sign if the work locations occur over a distance of more than 2 miles.

An activated flashing yellow light will be used on all vehicles and equipment.

ROAD WORK AHEAD sign is required only when sight distance is restricted. (See Table)

Slow Moving Vehicle Emblem will be displayed on rear of Sweeper when speed is less than 25 M.P.H.

