

Texas Department of Transportation
BOOK 2 – TECHNICAL PROVISIONS
FOR
US 181 HARBOR BRIDGE PROJECT
DESIGN-BUILD PROJECT

ATTACHMENT 19-6
ASSET CONDITION SCORE CALCULATION
METHOD ROADWAY SECTION AFTER
SUBSTANTIAL COMPLETION

ATTACHMENT 19-6: ASSET CONDITION SCORE CALCULATION METHOD ROADWAY SECTION AFTER SUBSTANTIAL COMPLETION

ELEMENT CATEGORY	ELEMENT	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT REF	MEASUREMENT RECORD	WEIGHTING (1 TO 50) ₁	WEIGHTING FACTOR ₂	EXAMPLE RAW ASSET CONDITION SCORE ₃	WEIGHTED SCORE ₄	ELEMENT CATEGORY ASSET CONDITION SCORE ₅	
1) ROADWAY										
1.1	Obstructions and debris	Visual Inspection	1.1.1	Number of obstructions and debris	50	4.0%	3	0.12	3.2	
1.2	Pavement	a) Ruts – Mainlanes, shoulders & ramps Depth as measured using an automated device in compliance with TxDOT Standards.		<i>Percentage of wheel path length with ruts greater than ¼" in depth in each Performance Section</i>						
			1.2.1	• Mainlanes, shoulders and ramps - 3%	15	1.2%	4	0.05		
			1.2.2	• Frontage roads - 10%	10	0.8%	4	0.03		
			10ft straight edge used to measure rut depth for localized areas.	1.2.3	Depth of rut at any location greater than ½"	10	0.8%	4		0.03
			b) Ride quality Measurement of International Roughness Index (IRI) according to TxDOT standard Tex-1001-S, Operating Inertial Profilers and Evaluating Pavement Profiles		<i>For 80% of all Performance Sections measured, IRI throughout 98% of each Performance Section is less than or equal to:</i>					
				1.2.4	• Mainlanes, ramps - 95" per mile**	10	0.8%	3		0.02
			** To allow for measurement bias, an adjustment of -10 (minus ten) is made to IRI measurements for concrete pavements before assessing threshold compliance.	1.2.5	• Frontage roads - 120" per mile**	10	0.8%	3		0.02
					<i>IRI throughout 98% of each Performance Section is less than or equal to:</i>					
				1.2.6	• Mainlanes, ramps - 120" per mile**	10	0.8%	4		0.03
				1.2.7	• Frontage roads - 150" per mile**	10	0.8%	4		0.03
				1.2.8	Mainlanes, ramps, 0.1 mile average - 150" per mile**	10	0.8%	4		0.03
				1.2.9	Frontage roads, 0.1 mile average - 180" per mile**	10	0.8%	4		0.03
			10-ft straightedge used to measure discontinuities	1.2.10	IRI measured throughout 98% of each lane containing a bridge deck in any Performance Section, 0.1 mile average - 200" per mile**	10	0.8%	4		0.03
			c) Failures Instances of failures exceeding the failure criteria set forth in the TxDOT PMIS Rater's Manual, including potholes, base failures, punchouts and jointed concrete pavement failures	1.2.11	Individual discontinuities greater than 1/4"	20	1.6%	3		0.05
			d) Edge drop-offs Physical measurement of edge drop-off level compared to adjacent surface	1.2.12	Occurrence of any failure	20	1.6%	5		0.08
				1.2.13	Number of instances of edge drop-off greater than 2"	20	1.6%	2		0.03

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1.2	Pavement	e) Skid resistance ASTM E 274 Standard Test Method for Skid Resistance Testing of Paved Surfaces at 50 MPH using a full scale smooth tire meeting the requirements of ASTM E 524	1.2.14	• Performance Sections with skid numbers for 0.5-mile section of mainlines, shoulders and ramps exceeding 30 and for which investigations as to potential risk of skidding accidents and appropriate remedial actions have been taken.	15	1.2%	3	0.04	
			1.2.15	• Performance Sections with skid numbers for 0.5-mile section of frontage roads exceeding 30 and for which investigations as to potential risk of skidding accidents and appropriate remedial actions have been taken.	10	0.8%	5	0.04	
			1.2.16	• When the skid number is below 25 and/or when a site is categorized by TxDOT in accordance with the Wet Weather Accident Reduction Program, as a Wet Weather Accident Site, Developer shall perform a site investigation and perform required corrective action.	15	1.2%	3	0.04	
			1.2.17	Instances where road users are warned of a potential skidding hazard where corrective action is required following the categorization as a Wet Weather Accident Reduction Site.	15	1.2%	1	0.01	
1.3	Crossovers and other paved areas	a) Potholes	1.3.1	Number of potholes of low severity or higher	50	4.0%	3	0.12	
		b) Base failures	1.3.2	Number of base failures of low severity or higher	50	4.0%	3	0.12	
1.4	Joints in concrete	Visual inspection of joints	1.4.1	Length of unsealed joints greater than ¼"	5	0.4%	2	0.01	
		Measurement of joint width and level difference of two sides of joints	1.4.2	Joint width more than 1" or faulting more than ¼"	10	0.8%	3	0.02	
1.5	Curbs	Visual inspection	1.5.1	Continuous curb lengths where more than 10% of the length has defects such as cracks and chips	5	0.4%	2	0.01	
		Physical measurement	1.5.2	Continuous curb lengths where more than 5% of the length has a separation exceeding 0.25" between curb face and adjacent roadway surface	5	0.4%	2	0.01	
		Survey and 10' straight edge	1.5.3	Continuous curb lengths where more than 5% of the length has either the top or face of curbs exceeding 0.5" from intended design alignment	5	0.4%	2	0.01	
1.6	Maintenance/Access Roads	Crown: Flat A shape or super-elevation with 4% cross slopes maintained to minimize ponding	1.6.1	Cross slope less than 3% or more than 6%	2	0.2%	4	0.01	
		Shoulder: Maintain slope away from the travel way and shoulder flush with travel way	1.6.2	Shoulder cross slope less than travel way cross slope; shoulder lower or higher than travel way	2	0.2%	3	0.00	
		Ditch: Maintain size and shape of ditch for proper drainage	1.6.3	Sides of ditches slumping or eroding, or obstructed by debris	2	0.2%	3	0.00	
		Ruts/potholes: Depth as measured using an automated device in compliance with TxDOT standards	1.6.4	Depth of ruts or potholes at any location greater than 1"	2	0.2%	3	0.00	
		Subgrade: Identify and repair any subgrade failures	1.6.5	Locations where subgrade failure is evident	2	0.2%	3	0.00	

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2) DRAINAGE									2.8
2.1	Pipes and Channels	Visual inspection supplemented by CCTV where required to inspect buried pipe work.	2.1.1	Length of pipe or channel in feet with less than 90% of cross sectional clear area, calculated as the arithmetic mean of the clear cross-sectional areas of individual 10 feet lengths of pipes and channels in each Performance Section.	10	0.8%	2	0.02	
2.2	Drainage treatment devices	Visual inspection	2.2.1	Number of devices functioning correctly with means of operation displayed.	10	0.8%	3	0.02	
2.3	Travel Way	Visual inspection of water on surface.	2.3.1	Number of instances of hazardous water build-up.	10	0.8%	4	0.03	
2.4	Discharge systems	Visual inspection and records	2.4.1	Performance Sections with surface water discharge systems performing their proper function and discharging in compliance with the relevant legislation and permits.	10	0.8%	3	0.02	
2.5	Protected Species	Visual inspection	2.5.1	Performance Sections with named species and habitats with protection of these named species and habitats.	10	0.8%	2	0.02	
3) STRUCTURES									3.3
3.1	Structures having an opening measured along the center of the roadway of more than 20 feet between undercopings of abutments or springlines of arches or extreme ends of openings or multiple boxes	Inspection and assessment in accordance with the requirements of federal National Bridge Inspection Standards (NBIS) of the Code of Federal Regulations, 23 Highways – Part 650, the TxDOT Bridge Inspection Manual, and the Federal Administration’s Bridge Inspector’s Reference Manual.		<i>Records as required in the TxDOT Bridge Inspection Manual</i>					
		As above	3.1.1	Occurrence of condition rating, in accordance with the TxDOT Bridge Inspection Manual, below seven for any deck, superstructure or substructure	50	4.0%	2	0.08	
			3.1.2	Not Used					
3.2	Structure components	Inspection and assessment in accordance with the requirements of federal National Bridge Inspection Standards (NBIS) of the Code of Federal Regulations, 23 Highways – Part 650, the TxDOT Bridge Inspection Manual, and the Federal Administration’s Bridge Inspector’s Reference Manual.	3.2.1	Occurrence of condition rating, in accordance with the TxDOT Bridge Inspection Manual, below seven (7) for any deck, superstructure or substructure	50	4.0%	3	0.12	
		Visual inspection of Elements listed in (i) through (vii) of the general performance requirement column in the Performance and Measurement Table.	3.2.2	Instances of condition of any element not meeting general performance requirement as determined in accordance with Good Industry Practice.	50	4.0%	3	0.12	

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3.9	Non-bridge class culverts	Visual inspection	3.9.1	Number of non-bridge class culverts with vegetation, debris and silt in each Performance Section	10	0.8%	4	0.03	
			3.9.2	Number of non-bridge class culverts with defects in sealant and movement joints in each Performance Section	10	0.8%	4	0.03	
			3.9.3	Number of non-bridge class culverts with scour damage in each Performance Section	10	0.8%	4	0.03	
3.10	Gantries and High-masts	Visual and up close inspection	3.10.1	Number of gantries and high masts with loose assemblies in each Performance Section	10	0.8%	4	0.03	
			3.10.2	Number of gantries and high masts with defects in surface protection in each Performance Section	10	0.8%	4	0.03	
3.11	Load Ratings	Load rating calculations in accordance with the Manual for Bridge Evaluation and the TxDOT Bridge Inspection Manual and per the Technical Provisions	3.11.1	Number of structures with load restrictions for Texas legal loads (including legally permitted vehicles) in each Performance Section	20	1.6%	5	0.08	
3.12	Access Points	Visual Inspection	3.12.1	Number with defects in locks or entryways	5	0.4%	3	0.01	
3.13	Mechanically Stabilized Earth and Retaining Walls	Inspection and assessment in accordance with the requirements of federal Nations Bridge Inspection Standards (NBIS) of the Code of Federal Regulations, 23 Highways - Part 650, the TxDOT Bridge Inspection Manual and the Federal Highway Administration's Bridge Inspector's Reference Manual.	3.13.1	Records as required in the TxDOT Bridge Inspection Manual	10	0.8%	5	0.04	
		Visual Inspection	3.13.2	Number of parapet areas with loose nuts & bolts, blockage, undesirable vegetation, impact damage or concrete spalling in the Performance Section.	10	0.8%	4	0.03	
3.14	Structural Surfaces	Visual Inspection	3.14.1	Number of areas where graffiti is present	10	0.8%	4	0.03	
4) PAVEMENT MARKINGS, OBJECT MARKERS, BARRIER MARKERS AND DELINEATORS									3.8
4.1	Pavement markings	a) Markings - General							
		Portable retroreflectometer, which uses 30 meter geometry, meeting the requirements described in ASTM E 1710	4.1.1	Percentage of total length of pavement marking in each Performance Section meeting the minimum retroreflectivity 175 med/sqm/lx for white	15	1.2%	3	0.04	
			4.1.2	Percentage of total length of pavement marking in each Performance Section meeting the minimum retroreflectivity 125 med/sqm/lx for white yellow	15	1.2%	3	0.04	
		Physical measurement	4.1.3	Length of pavement marking in each Performance Section with more than 5% loss of area of material at any point	15	1.2%	3	0.04	
			4.1.4	Length of pavement marking in each Performance Section with spread more than 10% of specified dimensions.	15	1.2%	4	0.05	
		b) Profile Markings							
Visual inspection	4.1.5	Percentage of total length of pavement marking in each Performance Section performing its intended function and compliant with relevant regulations	5	0.4%	3	0.01			

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4.2	Raised Reflective Markings	Visual inspection	4.2.1	Number of markers associated with road markings that are ineffective in any 10 consecutive markers. (Ineffective includes missing, damaged, settled or sunk)	10	0.8%	5	0.04	
			4.2.2	A minimum of four markers are visible at 80' spacing when viewed under low beam headlights.	10	0.8%	5	0.04	
			4.2.3	Uniformity (replacement raised reflective pavement markers have equivalent physical and performance characteristics to adjacent markers).	10	0.8%	5	0.04	
4.3	Delineators and Markers	Visual inspection	4.3.1	Number of object markers or delineators in each Performance Section that is defective or missing	10	0.8%	4	0.03	
5) GUARDRAILS, SAFETY BARRIERS AND IMPACT ATTENUATORS									3.0
5.1	Guardrails and Safety Barriers	Visual inspection	5.1.1	Performance Sections with all guard rails and safety barriers appropriately placed and correction installed	25	2.0%	3	0.06	
			5.1.2	Performance Sections with all guard rails and safety barriers free from defects	20	1.6%	3	0.05	
			5.1.3	Performance Sections with all guard rails and safety barriers at correct heights	20	1.6%	2	0.03	
			5.1.4	Performance Sections with all guard rails and safety barriers at correct distances from roadway obstacles	20	1.6%	4	0.06	
5.2	Impact Attenuators	Visual inspection	5.2.1	Performance Sections will all impact attenuators appropriately placed and correctly installed.	20	1.6%	3	0.05	
6) TRAFFIC SIGNS									3.3
6.1	General - All Gantry-Mounted overhead signs	a) Retroreflectivity	Determination of Coefficient of retro-reflectivity	6.1.1	Number of signs with actual reflectivity below the requirements of TxDOT's TMUTCD in each Performance Section	20	1.6%	3	0.05
		b) Face damage	Visual inspection	6.1.2	Number of signs in each Performance Section with face damage greater than 5% of area	10	0.8%	4	0.03
		c) Placement	Visual inspection	6.1.3	All signs in each Performance Section are placed in accordance with TxDOT's Sign Crew Field Book including not twisted or leaning	5	0.4%	4	0.02
		d) Obsolete signs	Visual inspection	6.1.4	Number of obsolete signs in each Performance Section	5	0.4%	3	0.01
		e) Sign Information	Visual inspection	6.1.5	All sign information in each Performance Section is of the correct size, location, type and wording to meet its intended purpose	5	0.4%	3	0.01
		f) Dynamic Message Signs	Visual inspection	6.1.6	All dynamic message signs in each Performance Section are fully functioning	10	0.8%	3	0.02
7) TRAFFIC SIGNALS (NOT USED)									

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8) LIGHTING									3.7
8.1	Roadway and aesthetic Lighting – General	a) Mainline lights operable Night time inspection or automated logs	8.1.1	Performance Sections with less than 90% of lights functioning correctly at all times	25	2.0%	3	0.06	
		b) Mainline lights out of action Night time inspection or automated logs	8.1.2	Instances of more than two consecutive lights out of action	25	2.0%	4	0.08	
8.2	Sign Lighting	Night time inspection or automated logs	8.2.1	Number of instances of more than one bulb per sign not working in each Performance Section	10	0.8%	4	0.03	
8.3	Electrical Supply	Testing to meet NEC regulations, visual inspection	8.3.1	Inspection records showing safe installation and maintenance in each Performance Section	10	0.8%	5	0.04	
8.4	Access Panels	Visual Inspection	8.4.1	Number of instances of missing or damaged access panels in each Performance Section	5	0.4%	5	0.02	
8.5	High Mast Lighting	Yearly inspection and night time inspections or automated logs	8.5.1	Instances of two or more lamps not working per high mast pole	15	1.2%	3	0.04	
			8.5.2	Any other defects per the "general Performance Requirements" column	10	0.8%	3	0.02	
9) FENCES, WALLS AND SOUND ABATEMENT									
9.1	Design and Location								
9.2	Construction					0.0%			
9.3	Operation	Structural assessment if visual inspection warrants	9.3.1	Inspection records for fences and walls showing compliance with fence and wall requirements in each Performance Section	20	1.6%	4	0.06	
10) ROADSIDE MANAGEMENT									4.0
10.1	Vegetated Areas - Except landscaped areas - General	a) Urban areas Physical measurement of height of grass and weeds	10.1.1	Individual measurement areas in each Performance Section to have 95% of grass and weeds between 5" and 18" in height.	10	0.8%	3	0.02	
		b) Encroachment Visual inspection of instances of encroachment of vegetation	10.1.2	Number of occurrences of vegetation encroachment in each Performance Section	10	0.8%	5	0.04	
		c) Wildflowers Visual Inspection with audit of process.	10.1.3	Adherence to vegetation management manuals	10	0.8%	3	0.02	
		d) Sight lines Visual inspection	10.1.4	Number of instances of impairment of sight lines or sight distance to signs in each Performance Section	10	0.8%	4	0.03	
10.2	Landscaped Areas	Visual inspection	10.2.1	Inspection records showing compliance with requirements for landscaping in each Performance Section.	10	0.8%	4	0.03	
10.3	Fire Hazards	Visual inspection	10.3.1	Number of instances of dry brush or vegetation forming fire hazard in each Performance Section.	10	0.8%	5	0.04	
10.4	Trees, Bushes and Ornamentals	Visual inspection	10.4.1	Inspection records showing compliance with requirements for trees, brush and ornamentals in each Performance Section.	10	0.8%	5	0.04	
10.5	Wetlands	Visual inspection, assessment of permit issuers	10.5.1	Number of instances of permit requirements not met in each Performance Section	10	0.8%	3	0.02	

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11) REST AREAS AND PICNIC AREAS (NOT USED)									
12) EARTHWORKS, EMBANKMENTS AND CUTTINGS									
									5.0
12.1	Slope Failure	Visual inspection by geotechnical specialist and further tests as recommended by the specialist	12.1.1	Number of recorded instances of slope failure in each Performance Section	12	0.9%	5	0.05	
12.2	Slopes - General	Visual inspection by geotechnical specialist and further tests as recommended by the specialist	12.2.1	Inspection records showing compliance with requirements for slopes in each Performance Section.	12	0.9%	5	0.05	
13) ITS EQUIPMENT									
									3.7
13.1	ITS Equipment - Maintenance	Visual Inspection	13.1.1	Inspection records showing compliance with requirements for maintenance of ITS equipment in each Performance Section.	5	0.4%	4	0.02	
13.2	Dynamic Message Sign Equipment	Defect measurement dependent on equipment	13.2.1	Inspection records showing compliance with requirements for Dynamic Message Signs in each Performance Section	5	0.4%	3	0.01	
13.3	CCTV Equipment	Defect measurement dependent on equipment	13.3.1	Inspection records showing compliance with requirements for CCTV equipment in each Performance Section	5	0.4%	4	0.02	
13.4	Vehicle Detection Equipment	Defect measurement dependent on equipment	13.4.1	Inspection records showing compliance with requirements for vehicle detection equipment in each Performance Section	5	0.4%	5	0.02	
			13.4.2	Traffic Detector Loop circuit's inductance to be > 50 and < 1,000 micro henries.	5	0.4%	3	0.01	
			13.4.3	Insulation resistance to be > 50 meg ohms.	5	0.4%	3	0.01	
14) TOLLING FACILITIES AND BUILDINGS (NOT USED)									
15) AMENITY (NOT USED)									
16) SNOW AND ICE CONTROL (NOT PART OF ASSET CONDITION SCORE)									
16.1	Travel lanes	Maximum 1hr response time to complete manning and loading of spreading vehicles.	16.1.1	Inspection records showing compliance with requirements for snow and ice control in each Performance Section	0	0.0%			
		Maximum 2hrs from departure from loading point to complete treatment and return to loading point.	16.1.2	Inspection records showing compliance with requirements for snow and ice control in each Performance Section	0	0.0%			
		Maximum 1hr response time for snow and ice clearance vehicles to depart from base.	16.1.3	Inspection records showing compliance with requirements for snow and ice control in each Performance Section	0	0.0%			
16.2	Weather Forecasting	Operations plan details the process and procedures in place and followed.	16.2.1	Inspection records showing compliance with requirements for weather forecasting in each Performance Section	0	0.0%			
16.3	Operational Plans	Operations plan details the process and procedures in place and followed.	16.3.1	Inspection records showing compliance with snow and ice clearance plans in each Performance Section	0	0.0%			
16.4	Operations and Maintenance Manual	Operations and maintenance instructions detail the process and procedures in place and followed.	16.4.1	Inspection records showing compliance with operations and maintenance instructions in each Performance Section.	0	0.0%			

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17) INCIDENT RESPONSE (NOT PART OF ASSET CONDITION SCORE)									
17.1	General	Response times are met for 98% of incidents measured on a 1 year rolling basis.	17.1.1	Inspection records showing compliance with the MMP and requirements regarding incident response times in each Performance Section	0	0.0%			
		No complaints from Emergency Services.	17.1.2	Inspection records showing compliance with the MMP and requirements regarding incident response times in each Performance Section	0	0.0%			
17.2	Hazardous Materials	MMP details the process and procedures in place and followed.	17.2.1	Inspection records showing compliance with the MMP details regarding hazardous materials in each Performance Section	0	0.0%			
17.3	Structural Assessment	Inspections and surveys as required by incident	17.3.1	Inspection records showing compliance with the MMP and requirements for incidents in each Performance Section	0	0.0%			
17.4	Temporary and permanent remedy	Review and inspection of the incident site	17.4.1	Inspection records showing compliance with requirements for temporary and permanent remedy for incidents in each Performance Section	0	0.0%			
18) CUSTOMER RESPONSE (NOT PART OF ASSET CONDITION SCORE)									
18.1	Response to inquiries	Contact the customer within 48 hours following initial customer inquiry.	18.1.1	Percentage of responses within specified times in each Performance Section.	0	0.0%			
		All work resulting from customer requests is scheduled within 48 hours of customer contact.	18.1.2	Demonstrated by O&M Records	0	0.0%			
		Follow-up contact with the customer within 72 hours of initial inquiry.	18.1.3	Demonstrated by O&M Records	0	0.0%			
		All customer concerns/requests are resolved to TxDOT's satisfaction within 2 weeks of the initial inquiry.	18.1.4	Demonstrated by O&M Records	0	0.0%			
18.2	Customer Contact Line				0	0.0%			
19) SWEEPING AND CLEANING									
19.1	Sweeping	Buildup of dirt, ice, rock, debris, etc. on roadways and bridges not to accumulate greater than 24" wide or 1/2" deep	19.1.1	Inspection records showing compliance with requirements for sweeping in each Performance Section.	15	1.2%	5	0.06	4.5
19.2	Litter	No more than 20 pieces of litter per roadside mile shall be visible when traveling at highway speed.	19.2.1	Inspection records showing compliance with requirements regarding litter pick-up in each Performance Section.	15	1.2%	4	0.05	
						100.0%			
AGGREGATED ASSET CONDITION SCORE FOR ROADWAY SECTION AFTER SUBSTANTIAL COMPLETION ₆								3.4	

NOTES FOR ASSET CONDITION SCORE CALCULATION

- 1 Weighting is the assigned weighting for each Measurement Record on a scale of 1-50 for purpose of Asset Condition Score
- 2 Weighting Factor is the Weighting expressed as a percentage for each Measurement Record and totaling 100%
- 3 Example Raw Asset Condition Score = Asset Condition Score for each Measurement Record across all inspected Performance Sections
- 4 Weighted Score = Raw Asset Condition Score x Weighting Factor
- 5 Element Category Asset Condition Score = Sum of Weighted Score / Sum of Weighting Factors for each Element Category
- 6 Aggregated Asset Condition Score = Sum of Weighted Scores for each Measurement Record for all Element Categories

94	Number of non-zero Weightings
1264	Total of Weightings
13.45	Average Weighting