

MICHIGAN
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTAL SPECIFICATION
FOR
ERRATA TO THE 2020 STANDARD SPECIFICATIONS

1 of 11

04-30-24

Page	Subsection	Errata
1-06	101.02	Delete the second abbreviation of the list on this page reading: "IES Illuminating Engineering Society"
1-06	101.02	Add the abbreviation to the list on this page reading: "IESNA Illuminating Engineering Society of North America"
1-07	101.02	Change the first abbreviation of the list on this page to read: MMUTCD..... Michigan Manual on Uniform Traffic Control Devices
1-83	108.05.A.2	In the first paragraph of this subsection change the language "MDOT Form 1130" to read "MDOT Form 1130A".
1-88	108.08.D	Move the last paragraph of this subsection to the left one indent to align with the first paragraph of the subsection and not with the subsection 108.08.D.3.
2-29	205.03.P.1	Delete the first sentence of this subsection and replace with the following: "Do not dispose of material, temporarily or permanently, beyond the normal plan fill slope across wetlands or floodplains."
2-30	205.03.P.2	Delete the first sentence of this subsection and replace with the following: "Do not dispose of material, temporarily or permanently, in wetlands or floodplains."
2-30	205.03.P.3	Delete the second paragraph of this subsection and replace with the following: "Contact the appropriate regulatory agencies to determine whether an area is a regulated wetland or floodplain before disposing of surplus or unsuitable material in areas outside the right-of-way and not shown on the plans as disposal sites."
2-30	205.03.P.3	Delete the first sentence of the third paragraph of this subsection and replace with the following: "Immediately move to an upland site any surplus or unsuitable material that was disposed of in portions of wetlands or floodplains not shown on the plans as disposal sites, at no additional cost to the Department."

2-30	205.03.P.4	Delete the first sentence of this subsection and replace with the following: "The Department will notify the applicable regulatory agencies if the Department becomes aware that the Contractor disposed of surplus or unsuitable material in portions of a wetland or floodplain not shown on the plans."
3-31	308.04.D	Change the subsection title from "D. General. " to read "A. General. "
4-7	401.03.E	Delete the third sentence of the second paragraph of this subsection and replace with the following: "Use precast or cast-in-place footings for precast end sections as required."
4-8	401.03.E	Delete the first sentence of the fourth paragraph on this page of this subsection and replace with the following: "When discharging stormwater directly to waters of the state, permanently label all end sections or other piped points of stormwater entry with "MDOT" or the local agency's name in a conspicuous location that will remain visible after construction."
4-11	401.04	Change the eighth pay item from the bottom of the list on this page to read as follows: Culv End Sect __ inch, Grate.....Each
4-12	401.04.C.4	Change this subsection to read: "The Engineer will measure Culv End Sect __ inch, Grate by each as shown on the plans for the size of grate required."
4-21	402.03	Add a new subsection to the end of subsection 402.03 on this page reading as follows: "K. Outfall Labeling. Label all stormwater outfalls directly discharging to waters of the state in accordance with subsection 401.03.E."
4-39	406.02	Change the third line in the list of materials to read: Coarse Aggregate 6A, 6AA, 17A.....902
4-41	406.03.A.3	Delete the third paragraph of this subsection and replace with the following: "Design joints between adjacent box culvert sections in accordance with Section 9 of ASTM C1577 and to accommodate the joint sealing material in accordance with section 914 as applicable."
4-50	406.03.G.3	Change the first sentence of the first paragraph to read: "Unless otherwise shown on the plans, construct culvert bedding for box culverts by placing a 9-inch-thick layer of 46G aggregate, covered with a 3-inch-thick layer of 34G, 34R aggregate, or approved equal."

4-51	406.03.G.3	<p>Add the following sentence to the end of the second paragraph of this subsection:</p> <p>"The cold applied joint sealer must completely cover the external rubber gasket with the placement limits matching the width of the geotextile blanket."</p>
4-52	406.04.B	<p>In the second paragraph of this subsection delete the first sentence and replace with the following:</p> <p>"The Department will pay separately for cast-in-place concrete, other than for culvert segments, headwalls, wingwalls, aprons, and curtain walls."</p>
5-26	502.02	Delete the first sentence of the subsection and the listed materials in this subsection.
5-26	502.02.A	Add the following to the end of the first sentence in this subsection: "(914.04A)"
5-26	502.02.B	Add the following to the end of the first sentence in this subsection: "(502.02B)"
5-35	503.04	<p>Change the first paragraph to read:</p> <p>"The unit price for Paver-Placed Surface Seal, of the type required, includes the cost of preparing the surface, and placing a membrane and paver placed surface seal course for full-width coverage, except that the Department will pay separately for removing pavement markings in accordance with subsection 812.04"</p>
5-46	504.04.A	<p>Change the first paragraph to read:</p> <p>"A. General. The unit prices for Micro-Surface, regardless of the type required, include cleaning existing pavement, applying a bond coat, stationing, corrective action, and traffic control to complete corrective action."</p>
6-20	602.04	Delete the fifteenth pay item of the list on this page reading: "Shoulder, Reinf Conc.....Square Yard
6-20	602.04	<p>Change the sixteenth thru the eighteenth pay items on this page to read as follows:</p> <p>Shld, Nonreinf Conc.....Square Yard</p> <p>Shld, Nonreinf Conc, High PerformanceSquare Yard</p> <p>Shld, Freeway.....Square Yard</p>
6-21	602.04.B.1	<p>Delete this subsection and replace with the following:</p> <p>"Shld, Nonreinf Conc; and Shld, Nonreinf Conc, High Performance. The Engineer will measure, and the Department will pay for, Shld, Nonreinf Conc; and Shld, Nonreinf Conc, High Performance by area, based on plan quantities in accordance with subsection 109.01."</p>
6-21	602.04.B.2	Delete this subsection and replace with the following:

“Shld, Freeway. The Engineer will measure, and the Department will pay for, **Shld, Freeway** based on plan quantities in accordance with subsection 109.01. If the Contractor uses concrete for the shoulder, the unit price for **Shld, Freeway** includes the cost of the transverse joints in the shoulder and the external longitudinal pavement joints.”

6-23	602.04.F	Add the following sentence to the end of the first paragraph of this subsection: Temporary concrete pavement, pavement within 4 feet of an obstruction, pavement areas less than 300 square yards, or pavement less than 3 feet wide will not be cored.
6-23	602.04.F	Delete the following language from this subsection on this page: “The Engineer will not core the following: 1. Temporary concrete pavement; 2. Pavement within 4 feet of an obstruction; 3. Pavement areas less than 300 square yards; or 4. Pavement less than 3 feet wide.”
6-24	602.04	Rename the following subsections as follows: “1. Initial Core.
6-24	602.04	2. Additional Cores.
6-24	602.04	3. Price Adjustment for Thickness.
6-25	602.04	4. Price Adjustments for Steel Locations within the Pavement.
6-26	602.04	5. Remove and Replace.”
6-29	603.02	Change the first sentence in the last paragraph in this subsection to read: “Provide coarse aggregate with no greater than 2.5% absorption in accordance with AASHTO T85.”
7-11	705.02	Change the second sentence in the last paragraph in this subsection to read: “Provide natural aggregate and with no greater than 2.50% absorption as specified in AASHTO T85 for structure concrete.”
7-29	706.02	Change the first sentence in the seventh paragraph in this subsection to read: “Provide natural aggregate and with no greater than 2.50% absorption as specified in AASHTO T85 for structure concrete.”
7-107	709.04	Change the Pay Unit on the second pay item from the top of the list on this page to read as follows: Thousand Board Foot

7-115	711.02	Change the first sentence in the last paragraph in this subsection to read: "Provide natural aggregate with a maximum absorption of 2.50% in accordance with AASHTO T85."
7-120	712.02	Change the first sentence in the sixth paragraph in this subsection to read: "Provide concrete containing natural aggregate with a maximum absorption of 2.50% in accordance with AASHTO T85."
7-185	718.02	Change the first sentence in the last paragraph in this subsection to read: "Provide concrete with natural aggregate with a maximum absorption of 2.50% in accordance with AASHTO T85."
8-12	804.03.B.2	Change the first sentence in this subsection to read: "Cast in place light standard and sign support foundations using fixed forms in accordance with the <i>MDOT Standard Plan R-50 series</i> ."
8-27		Change the last pay item at the bottom of this page to read as follows: Guardrail Anch, Bridge, Det __, Curved.....Each
8-44	810.03.J.9	Add a period to the end of the third sentence in this subsection.
8-53	810.03.V	Add a period to the end of the second sentence of the first paragraph of this subsection.
8-53	810.04	Change the fourth pay item from the top of the list on this page to read as follows: Post, Steel, __ pound.....Foot
8-53	810.04	Change the last four pay items at the bottom of this page to read as follows: Fdn, Truss Sign Structure Type __, __ inch dia, Cased.....Foot Fdn, Truss Sign Structure Type __, __ inch dia, Uncased.....Foot Fdn, Cantilever Sign Structure Type __, __ inch dia, CasedFoot Fdn, Cantilever Sign Structure Type __, __ inch dia, Uncased.Foot
8-55	810.04.B.1	Delete the second paragraph of this subsection and replace with the following: "The unit prices for Fdn, Truss Sign Structure Type __, __ inch dia, Cased and Fdn, Cantilever Sign Structure Type __, __ inch dia, Cased include the cost of concrete, slurry, steel reinforcement, permanent casings, anchor bolts, excavation, and disposal of excavated material."
8-55	810.04.B.2	Delete this subsection and replace with the following: "Foundation, Truss Sign Structure, Uncased and Foundation, Cantilever Sign Structure, Uncased. The unit prices for Fdn,

Truss Sign Structure Type __, __ inch dia, **Uncased** and **Fdn, Cantilever Sign Structure Type** __, __ inch dia, **Uncased** include the cost of concrete, slurry, steel reinforcement, temporary casings, anchor bolts, excavation, and disposal of excavated material."

- | | | |
|-------|--------------|--|
| 8-57 | 810.04.I | Delete the first paragraph of this subsection and replace with the following:
"The unit price for Sign, Rem of the type required includes the cost of removing signs from supports and stacking by shape and size." |
| 8-57 | 810.04.I | Delete the second paragraph of this subsection and replace with the following:
"The unit prices for Ground Mtd Sign Supports, Rem; Cantilever, Rem and Truss, Rem include the cost of removing ground mounted sign supports, cantilever or truss supports." |
| 8-57 | 810.04.L | Change this subsection to read:
"The unit price for Sign, Erect, Salv of the type required includes erecting the salvaged sign on a new sign support or existing sign support, as shown on the plans, and attaching devices, and hardware, including brackets." |
| 8-110 | 812.04 | Change the fifth and sixth pay item from the top of the list on this page to read as follows:
Sign, Type B, Temp, Prismatic, Spec, Furn Square Foot
Sign, Type B, Temp, Prismatic, Spec, Oper Square Foot |
| 8-141 | 815.04.C.1.b | Delete this subsection in its entirety. |
| 8-141 | 815.04.C.1.c | Rename and change this subsection as follows:
"b. Removal and disposal of unacceptable plants including the root ball. |
| 8-141 | 815.04.C.1.d | Delete this subsection in its entirety. |
| 8-142 | 815.04.C.2.d | Change this subsection to read:
"During the first watering of the second growing season, remove and dispose of the guying material, identification tags, and inspection tags." |
| 8-144 | 816.03.A | Change the third sentence in this subsection to read:
"Use topsoil from within the project limits; or from off-site sources meeting the requirements in subsection 917.06." |
| 8-167 | 818.04 | Add the pay item to the bottom of the list on this page as follows:
Power Company (Estimated Cost to Contractor) Dollar |
| 8-170 | 818.04.G | Delete this subsection in its entirety. |
| 8-170 | 818.04 | Rename the following subsections as follows:
"G. Handholes (Hh). |

8-171	818.04	H. Service Disconnect.
8-171	818.04	I. Metered Service.
8-171	818.04	J. Unmetered Service.
8-172	818.04	K. Wood Pole.
8-172	818.04	L. Concrete Pole, Fit Up.
8-172	818.04	M. Steel Pole, Fit Up.
8-172	818.04	N. Bracket Arm."
8-171	818.04.J	Delete the second paragraph of this subsection and replace with the following: "The pay item, Power Company (Estimated Cost to Contractor) , establishes a budgeted amount in the contract to cover the cost of reimbursing the Contractor for payments made to the power company for providing electrical power at the locations shown on the plans. The Department will estimate the reimbursement costs to the Contractor and establish a budgeted amount as shown on the plans. The Department will pay the Contractor for power company invoices paid, as submitted to the Engineer."
8-176	819.03.B.5.b	In the second paragraph of this subsection delete the first sentence and replace with the following: "Tighten bolts connecting the pole to the frangible base to a snug tight condition in accordance with subsection 707.03.E.6.c."
8-185	820.01.B	Add a period to the end of the first sentence of this subsection.
8-187	820.02	Change the first line in the list of materials on this page to read: Conduit Material.....918
8-196	820.03.O	In the fourth paragraph of this subsection delete the last sentence and replace with the following: "Use smooth wall, Schedule 80, rigid PVC conduit, or coilable, Schedule 80 PE conduit in accordance with section 818."
8-199	820.04	Add the pay item to the list on this page: TS, (number) Way (type) Mtd (LED) Optic
8-200	820.04	Change the second pay item from the top of the list on this page to read as follows: TS Head, TempEach
8-200	820.04	Change the eleventh pay item from the top of the list on this page to read as follows: TS, Lens, Pedestrian Sym (LED)Each
8-200	820.04	Delete the following pay items from the list: Strain Pole, Steel, 6 bolt, __ foot.....Each Mast Arm Pole, Cat.....Each Mast Arm, __Foot, Cat.....Each

- 8-200 820.04 Change the eleventh pay item from the bottom of the list on this page to read as follows:
Mast Arm, Rem.....Each
- 8-201 820.04 Delete the following pay item from the list:
Power Co. (Est Cost to Contractor)..... Dollar
- 8-202 820.04 Add the following pay item to the list:
Bracket, Truss, Salv.....Each
- 8-204 820.04.C Delete the last paragraph of this subsection in its entirety.
- 8-204 820.04.D Delete the first paragraph of this subsection in its entirety.
- 9-5 902.02 Delete the first line under the Material list and relace with the following:
"Wire Cloth and Sieves ASTM E11"
- 9-9 902.03.C.1.b Delete the first sentence in this subsection and replace with the following:
"The physical requirements for the coarse aggregate are as specified in Table 902-2 and as follows:"
- 9-14 Table 902-1 In the row that includes the information on the 34G material, under the column titled Item of Work by Section Number (Sequential) delete the reference to the section 404.
- 9-15 Table 902-2 Add the superscript (n) in the first row in the Dense-graded aggregates section of the table under the column titled Crushed Material, % min. (MTM 117).
- 9-16 Table 902-2 Add the superscript (n) in the first row in the Open-graded aggregates section of the table under the column titled Crushed Material, % min. (MTM 117).
- 9-16 Table 902-2 Delete the superscript footnote in the first through fourth rows under the header row that reads "(m)" in the column Loss, % max, LA Abrasion (MTM 102).
- 9-16 Table 902-2 Add the following row after the third row in the Open-graded aggregates section reading:
- | | | | | | |
|-----|----|----|----|----|----|
| 46R | -- | 45 | -- | -- | -- |
|-----|----|----|----|----|----|
- 9-16 Table 902-2 Add the superscript footnote in the header row that reads "(m)" in the column Loss, % max, LA Abrasion (MTM 102).
- 9-15 Table 902-2 Delete the footnote (d) in one location in the table.
- 9-17 Table 902-2 Delete the footnote (d) in one location in the table.

9-17	Table 902-2	Add the following footnote below the existing footnotes in this table. “(n) For recycled crushed concrete, if the source concrete uses primarily rounded river gravel aggregates, the minimum crushed particle content can be reduced to 90%.”
9-21	Table 902-6	Delete the footnote (b) in two locations in the table.
9-21	Table 902-6	Change the footnote (c) to read (b) in two locations in the table.
9-21	Table 902-6	Change the footnote (d) to read (c) in two locations in the table.
9-25	903.04	Delete the second sentence of the second paragraph of this subsection.
9-70	909.07.A	Delete the second sentence of this subsection.
9-70	909.05.D	Change the first sentence in this subsection to read: “Provide steel pipe for jacking in place meeting the requirements of ASTM A53/A53M for Type E or Type S, Grade B, or ASTM A139/A139M for Grade B.”
9-71	909.08.A	Change the first sentence in this subsection to read: “Provide bridge deck downspouts of PE pipe meeting the requirements of ASTM F714, PE 4710, DR 26 or Schedule 80 PVC.
9-94	Table 910-01	Change the value in the fifth row under the header row in the Permittivity (min) (per second) column from 0.5 to read: “0.05”
9-94	Table 910-01	Change the value in the seventh row under the header row in the Permittivity (min.) (per second) column from 0.5 to read: “0.05”
9-95	Table 910-2	Change the second row under the Ultimate strength section to read: “CMD ^(c) 1950 lb/ft”
9-119	913.06	Change this subsection to read: Circular precast concrete units with circular reinforcement for adjusting rings, tops, risers, and sump bases for manholes, catch basins, and inlets must meet the requirements of AASHTO M199 and the following additions and exceptions:
9-133	917.03	Rename the four subsections following the first paragraph on this page as follows: D. Deciduous Shade Trees. E. Small Trees, Ornamentals, and Shrubs. F. Evergreen Trees. G. Vines, Ground Cover, and Herbaceous Ornamental Plants.
9-149	918.08	In the first paragraph of this subsection delete the second sentence and replace with the following:

“Provide light standards designed in accordance with AASHTO’s LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.”

9-150	918.10	In the first paragraph of this subsection delete the first sentence and replace with the following: “Provide tower lighting units designed in accordance with AASHTO’s LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.”
9-164	919.04.B	In the first paragraph of this subsection delete the first sentence and replace with the following: “Provide square tubular steel sign supports meeting the chemical, mechanical, and geometric properties of material used in the crash tests referenced in AASHTO’s LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.”
9-170	920.02.C	Change the reference to Table 920-2 to read Table 920-3 in two locations.
9-222	922.10.A.3	Delete this subsection and replace with the following: “Conform to the wind load requirements specified by AASHTO’s LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals with all equipment mounted without the need for additional ballast;”
10-23	1003.03.B	Delete the last sentence of this subsection and replace with the following: “Aggregate sampling for concrete will be performed by an MCAT-certified Aggregate Technician Level II.”
10-42	Table 1006-01	Change footnote (a) to read: “(a) Ensure that the coarse aggregate’s absorption does not exceed 2.5% in accordance with AASHTO T85.”
10-43	Table 1006-02	Replace Table 1006-02 with the Table 1006-02 below.
1A - 20A	Pay Item Index	Replace the Pay Item Index in its entirety.

**Table 1006-2:
Overlay Mixtures**

Mixture Type	Aggregate	Slump (inch)	Air Content	Admixture Required	Mixture Proportions lb/yd ³ , dry weight					
					Cement ^(a)	Dry Densified Silica Fume ^(b)	Net Mix Water	Fine Agg	Coarse Agg	Latex Admixture
SFMC	2NS and 26A ^(c)	4–6	6.5 ±1.5%	(d),(e),(f)	618	40	273 ^(g)	1273	1601	—
LMC	2NS and 26A ^(c)	(h)	4.5 ±1.5%	—	658	—	(h)	1490 ^{(i),(j)}	1300 ^{(i),(j)}	206

(a) Use only Type I Portland cement.

(b) For SFMC mixtures, the Contractor may use a blended silica fume Portland cement. However, if the silica fume content of the blended material is greater than 8% of the total cementitious material, submit to the Engineer modified mix proportions with Type I Portland cement added to the blended material to achieve the equivalent individual cementitious material mixture proportions.

(c) Provide coarse aggregate, 95% minimum crushed materials in accordance with Michigan Test Method (MTM) 117, with an absorption no greater than 2.5%, in accordance with AASHTO T85.

(d) Water-reducing high-range admixture or water-reducing high-range and retarding admixture.

(e) Virgin polypropylene collated fibers at 2 lb/yd³.

(f) Air-entraining admixture.

(g) Provide a net water to cementitious material ratio of 0.41 (cementitious material includes cement and silica fume).

(h) Add water in addition to water in the latex admixture to control slump to within 3 to 5 inches. Measure slump from 4 to 5 minutes after discharge from the mixer. During the waiting period, deposit concrete on the deck and do not disturb. If placing mixtures on sections within superelevated curves, the Contractor may need to use the lower allowable range of the slump requirement, as determined by the Engineer. Do not exceed water-cement ratio, by weight, of 0.30 including water contained in the latex emulsion.

(i) Aggregate proportions are approximate; due to gradation changes, the Contractor may increase proportions by no greater than 5% by weight of total aggregate if reducing coarse aggregate by an equivalent volume.

(j) Aggregate weights specified in the table are based on a dry bulk specific gravity of 2.65 for gravel and stone. Adjust the weights if the specific gravity of the materials used varies by more than 0.02 from the specified values.