



INDIANA DEPARTMENT OF TRANSPORTATION

STANDARDS COMMITTEE MEETING AGENDA

*Driving Indiana's Economic Growth*

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June 2, 2005

MEMORANDUM

TO: Standards Committee

FROM: Dannie L. Smith, Secretary

RE: Agenda for the June 16, 2005 Standards Committee Meeting

A Standards Committee meeting is scheduled for 9:00 a.m. on June 16, 2005 in the N755 Bay Window Conference Room. Please enter the meeting through the double doors directly in front of the conference room. The following agenda items are listed for consideration.

Old Business

|                     |  |                   |   |
|---------------------|--|-------------------|---|
| Item 2-17<br>203.08 | Mr. Cales<br>Borrow or Disposal                          | 6/16/05<br>200-21 | 3 |
| Item 5-2<br>105.06  | Mr. Cales<br>Cooperation with Utilities                  | 6/16/05<br>100-35 | 5 |
| Item 5-2a<br>107.04 | Mr. Cales<br>Restoration of Surfaces Opened<br>by Permit | 6/16/05<br>100-58 | 7 |

New Business

|                           |   |                   |    |
|---------------------------|---|-------------------|----|
| Item 6-1<br>Design Manual | Mr. Cales<br>Chapter 53, Shoulder Widths  | 6/16/05           | 8  |
| Item 6-2<br>101.02        | Mr. Kuchler<br>Above Normal <del>Rainfall</del> <i>Inclement</i><br><i>Weather Days</i> | 6/16/05<br>100-3  | 12 |
| Item 6-3<br>104.05        | Mr. Cales<br>Removal and Disposal of<br>Structures and Obstruction                      | 6/16/05<br>100-27 | 13 |
| Item 6-4<br>105.08(b)     | Mr. Cales<br>Construction Engineering by<br>the Contractor                              | 6/16/05<br>100-36 | 14 |

|                    |   |                   |    |
|--------------------|---|-------------------|----|
| Item 6-5<br>107.20 | Mr. Cales<br>Contractor's Responsibility for<br>Utility Property and Services | 6/16/05<br>100-68 | 15 |
| Item 6-6<br>108.08 | Mr. Kuchler<br>Determination and Extension of<br>Contract Time                | 6/16/05<br>100-75 | 17 |
| Item 6-7           | Mr. Cales   | 6/16/05           | 19 |
| 109.05.1           | <i>Quality Adjustments</i>  | 100-93            |    |
| 109.05.1(a)        | <i>HMA</i>  | 100-93            |    |
| 109.05.1(b)        | <i>PCCP</i>   | 100-93            |    |
| 109.05.1(c)        | <i>Superstructure Concrete, SC</i>  | 100-93            |    |
| 109.05.1(d)        | <i>Temporary Traffic Control<br/>Devices, TTCD</i>                            | 100-93            |    |
| 109.05.1(e)        | <i>Failed Materials, FM</i>   | 100-93            |    |
| 401.22             | Basis of Payment  | 400-16            |    |
| 501.31             | Basis of Payment  | 500-15            |    |

|                            |                              |
|----------------------------|------------------------------|
| cc: Committee Members (7)  | ACPA Representative (1)      |
| Districts (28)             | Contech Representative (1)   |
| FHWA (3)                   | IKO Representative (1)       |
| ICI Representative (1)     | Bridgetek Representative (1) |
| IMAA Representative (1)    | INDOT Toll Road (3)          |
| APAI Representative (1)    | Traffic Design (3)           |
| CE of I Representative (1) | Estimators (3)               |
| ADS Representative (1)     | Specification Writers (4)    |
| Mirich Representative      |                              |

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 203, BEGIN LINE 47, INSERT AS FOLLOWS:

**203.08 Borrow or Disposal**

Borrow shall consist of approved material required for the construction of embankments or for other portions of the work and shall be obtained from approved locations and sources outside the right-of-way. Borrow material shall be free of substances that will form deleterious deposits, or produce toxic concentrations or combinations that may be harmful to human, animal, plant or aquatic life, or otherwise impair the designated uses of the stream or area. Unless otherwise designated in the contract, arrangements shall be made for obtaining borrow. Borrow, as designated herein, shall not include material excavated beyond the right-of-way limits at intersecting public roads, private and commercial drive approaches, nor material furnished as B borrow.

~~The proposed~~ *Proposed borrow sites and proposed disposal site(s) for excavated material shall be identified before such material is excavated or disposed of within or outside the right-of-way. An inspection shall be conducted by a qualified wetland professional to determine if wetlands are present on the site. This inspection shall be in accordance with the Federal Manual for Identifying and Delineating Jurisdictional Wetlands. The inspection shall also determine if isolated wetlands as defined by the IDEM are present. The Contractor shall submit a document, signed by the wetland professional, verifying that the site has been inspected for the presence of wetlands in accordance with the federal manual and for isolated wetlands and, if any are present, specifying the area to be demarcated as jurisdictional waters and/or wetland. Once the area to be used for borrow or for disposal of excavated material has been shown not to contain jurisdictional or isolated wetlands, the boundary of the area cleared shall be demarcated. The methods of demarcation shall be as approved by the Engineer.*

*The Department will maintain a list of qualified wetland professional consultants on the INDOT website. A wetland professional certified by the Society of Wetland Scientists, SWS, as a wetland professional-in-training or professional wetland scientists may also be utilized and a list of such scientists can be located at <http://www.wetlandcert.org/search.html>.*

If the Contractor elects to use the site, all required permits shall be obtained. The Contractor shall develop and construct all mitigation measures and fulfill all requirements detailed by such permits. *The Contractor shall also obtain written permission from the land owner for Department personnel to access the site for monitoring. No excavation shall occur or no material shall be disposed of beyond the boundaries of the demarcated area.*

REVISION TO 2006 STANDARD SPECIFICATIONS  
SECTION 203, CONTINUED.

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|--|---|
| Other sections containing specific cross references: | General Instructions to Field Employees<br>Update Required? Y___ N___<br>By - Additional or Revision  |
| None   | Frequency Manual<br>Update Required? Y___ N___<br>By - Addition or Revision   |
| Recurring Special Provisions potentially affected:   | Standard Sheets potentially affected:   |
| None   | None  |
| Motion: Mr.<br>Second: Mr.<br>Ayes:<br>Nays:         | Action: Passed as submitted; revised<br>Effective - _____ Letting<br>_____ Supplementals<br><br>Withdrawn. Resubmit? _____<br><br>Received FHWA Approval? _____ |

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 105, BEGIN LINE 137, DELETE AND INSERT AS FOLLOWS:

**105.06 Cooperation with Utilities**

Prior to letting the contract, the Department will notify all known utility companies, all pipe line owners, or other parties affected, and endeavor to have all necessary adjustments of the public or private utility fixtures, pipe lines, and other appurtenances within or adjacent to the limits of construction, made as soon as practicable.

Water lines, gas lines, wire lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals, and all other utility appurtenances within the limits of the proposed construction which are to be relocated or adjusted are to be moved by the owners at their expense, except as otherwise provided for in the special provisions or as noted on the plans.

The plans show all known utilities located within the limits of the contract according to information obtained from the various utility companies. The accuracy of the plans in this respect is not guaranteed by the Department. All of the permanent and temporary utility appurtenances in their present or relocated positions shall have been considered in the bid. ~~No additional compensation will be allowed for delays, inconvenience, or damage sustained by the Contractor due to interference from the said utility appurtenances or the operations of moving them. However, if the prosecution of the work is delayed unnecessarily by the removal or relocation of the utilities, the time for completion may be extended in such amount as the condition justifies, provided the delay was not caused by negligence of the Contractor.~~

*The contract documents in 107.25 identify each known utility and describe all known necessary work and an anticipated schedule for completion. However, if a utility fails to relocate or adjust their facilities as provided for in the contract documents and the Contractor sustains delays and/or losses that could not have been avoided by the Contractor's judicious handling of forces, equipment, and plant or by reasonable revisions to the schedule of operations, and the Contractor has documented its utility coordination efforts and sustained delays and losses, and if the sustained delays and losses were not caused by the negligence of the Contractor, the Contractor shall pursue appropriate compensation from the negligent party. If the Contractor is delayed and it provides the aforementioned information to the Engineer, the time for completion may be extended in such amount as the conditions justify.*

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 105, CONTINUED.

|   |  |
|---|--|
| <p>Other sections containing<br/>specific cross references:</p> <p>107.20 Pg 100-68</p> | <p>General Instructions to Field Employees<br/>Update Required? Y___ N___<br/>By - Additional or Revision</p> <p>Frequency Manual<br/>Update Required? Y___ N___<br/>By - Addition or Revision</p> |
| <p>Recurring Special Provisions<br/>potentially affected:</p> <p>107-R-169</p>          | <p>Standard Sheets potentially affected:</p> <p>None</p>   |
| <p>Motion: Mr.<br/>Second: Mr.<br/>Ayes:<br/>Nays:</p>                                  | <p>Action: Passed as submitted; revised<br/>Effective - _____ Letting<br/>_____ Supplementals</p> <p>Withdrawn. Resubmit? _____</p> <p>Received FHWA Approval? _____</p>                           |

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 107, BEGIN LINE 103, DELETE AS FOLLOWS:

**107.04 Restoration of Surfaces Opened by Permit**

The right to construct or reconstruct utility service in the highway or street or to grant permits for same is hereby expressly reserved by the Department for the proper authorities of the municipality in which the work is done. ~~The Contractor shall not be entitled to damages either for the digging up of the street or for delay occasioned thereby.~~

An individual, firm, or corporation wishing to make an opening in the highway shall obtain a permit from the Department. Parties bearing such permits, and only those parties, will be allowed to perform work on the right-of-way.

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|--|---|
| Other sections containing specific cross references: | General Instructions to Field Employees<br>Update Required? Y___ N___<br>By - Additional or Revision  |
| None   | Frequency Manual<br>Update Required? Y___ N___<br>By - Addition or Revision   |
| Recurring Special Provisions potentially affected:   | Standard Sheets potentially affected:   |
| None   | None  |
| Motion: Mr.<br>Second: Mr.<br>Ayes:<br>Nays:         | Action: Passed as submitted; revised<br>Effective - _____ Letting<br>_____ Supplementals<br><br>Withdrawn. Resubmit? _____<br><br>Received FHWA Approval? _____ |

REVISION TO DESIGN MANUAL

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Chapter 53, Table 53-6, Shoulder Width

This revision recommends that the left shoulder width on multi-urban arterials should be the same width as the right shoulder. This is to facilitate the safety of vehicles in the inside lanes that experience breakdowns.

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|--|---|
| Other sections containing specific cross references: | General Instructions to Field Employees<br>Update Required? Y___ N___<br>By - Additional or Revision  |
| None   | Frequency Manual<br>Update Required? Y___ N___<br>By - Addition or Revision   |
| Recurring Special Provisions potentially affected:   | Standard Sheets potentially affected:   |
| None   | None  |
| Motion: Mr.<br>Second: Mr.<br>Ayes:<br>Nays:         | Action: Passed as submitted; revised<br>Effective - _____ Letting<br>_____ Supplementals<br><br>Withdrawn. Resubmit? _____<br><br>Received FHWA Approval? _____ |

| Design Element                         | Manual Section | Design Values (By Type of Area)    |   |                                  |
|--|----------------|------------------------------------|---|----------------------------------|
|  |                | Suburban                           | Intermediate  | Built-Up                         |
| Design Forecast Year                   | 40-2.02        | 20 Years                           | 20 Years  | 20 Years                         |
| *Design Speed (km/h) (1)               | 40-3.0         | Curbed: 70<br>Uncurbed: 80-100     | Curbed: 60<br>Uncurbed: 80                                      | Curbed: 50-60                    |
| Access Control                         | 40-5.0         | Partial Control / None             | None  | None                             |
| Level of Service                       | 40-2.0         | Des: B; Min: C                     | Des: C; Min: D  | Des: C; Min: D                   |
| On-Street Parking                      | 45-1.04        | None                               | Optional (2)  | Optional (2)                     |
| Travel Lane                            | 45-1.01        | Curbed: 3.6 m<br>Uncurbed: 3.6 m   | Curbed: 3.6 m; Min: 3.3 m<br>Uncurbed: Des.: 3.6 m; Min.: 3.3 m | Curbed: Des.: 3.6 m; Min.: 3.0 m |
| *Width (3)                             |                |                                    |   |                                  |
| Typical Surface Type (4)               | Chp. 52        | Asphalt / Concrete                 | Asphalt / Concrete  | Asphalt / Concrete               |
| *Curb Offset (5)                       | 45-1.02        | 0.6 m                              | 0.6 m   | 0.6 m                            |
| Shoulder                               | 45-1.02        | Right: 3.0 m; Left: 1.2 m          | Right: 2.4 m; Left: 1.2 m                                       | Right: 1.8 m; Left: 1.2 m        |
| Typical Surface Type (4)               | Chp. 52        | Asphalt / Concrete                 | Asphalt / Concrete  | Asphalt / Concrete               |
| *Travel Lane (7)                       | 45-1.01        | 2%                                 | 2%  | 2%                               |
| Cross Slope                            | 45-1.02        | 4%                                 | 4%  | 4%                               |
| Shoulder                               |                | Des: 3.6 m; Min: 3.3 m             | Des: 3.6 m; Min: 3.3 m  | Des: 3.6 m; Min: 3.0 m           |
| Lane Width                             |                | 0.3 m                              | 0.3 m   | 0.3 m                            |
| Curb Offset (8)                        | 45-1.03        | Des: 3.0 m; Min: 0.6 m             | Des: 2.4 m; Min: 0.6 m  | Des: 1.8 m; Min: 0.6 m           |
| Shoulder Width                         |                | Asphalt / Concrete                 | Asphalt / Concrete  | Asphalt / Concrete               |
| Auxiliary Lanes                        |                | Des: 4.8 m; Min: 4.2 m             | Des: 4.8 m; Min: 4.2 m  | Des: 4.2 m; Min: 3.6 m           |
| TWTL Lane Width                        | Chp. 52        | N/A                                | N/A   | Des: 3.6 m; Min: 3.0 m (9)       |
| Parking Lane Width                     | 46-5.0         | 8.0 m - 15.0 m                     | N/A   | N/A                              |
| Median Width                           | 45-1.04        | Des: 5.4 m; Min: 3.9 m (10)        | Des: 5.4 m; Min: 1.2 m (10)                                     | Des: 5.4 m; Min: 1.2 m (10)      |
| Depressed                              |                | Des: 4.8 m; Min: 3.9 m (10)        | Des: 4.8 m; Min: 1.2 m (10)                                     | Des: 4.8 m; Min: 1.2 m (10)      |
| Raised Island                          | 45-2.0         | 1.5 m with 1.5 m Buffer (Des)      | 1.5 m with 1.5 m Buffer (Des)                                   | Varies; 1.8 m Min                |
| Flush / Corrugated                     |                | Curbed: 1.5 m                      | Curbed: 1.5 m   | Curbed: 1.5 m                    |
| Sidewalk Width (11)                    | 45-1.06        | Uncurbed: Shld Width +1.2 m        | Uncurbed: Shld Width +1.2 m                                     | Curbed: 1.5 m                    |
| Bicycle Lane Width (12)                | 51-7.0         | (13)                               | (13)  | (13)                             |
| Clear Zones                            | 49-2.0         | Stopping / Vertical                | Stopping / Vertical   | Stopping / Vertical              |
| Typical Curbing Type (where used) (14) | 45-1.05        | 6:1 (16)                           | 6:1 (16)  | N/A                              |
| Foreslope                              |                | 1.2 m (17)                         | 1.2 m (17)  | N/A                              |
| Ditch Width                            |                | 4:1 for 6.0 m; 3:1 Max to Top (18) | 4:1 for 6.0 m; 3:1 Max to Top (18)                              | N/A                              |
| Backslope                              | 45-3.0         | 6:1 to Clear Zone; 3:1 Max. to Toe | 6:1 to Clear Zone; 3:1 Max. to Toe                              | N/A                              |
| Fill                                   |                | (19)                               | (19)  | (19)                             |
| Cut (Backslope)                        | 45-3.0         | 12:1 for 3.6 m; 3:1 Max. to Toe    | 12:1 for 3.6 m; 3:1 Max. to Toe                                 | 12:1 for 3.6 m; 3:1 Max. to Toe  |
| Fill                                   |                | Des: 8:1; Max: 5:1                 | N/A   | N/A                              |
| Median Slopes (Depressed)              | 45-2.0         |                                    |   |                                  |

\*Controlling design criteria (see Section 40-8.0). Des: Desirable. Min: Minimum.

GEOMETRIC DESIGN CRITERIA FOR MULTI-LANE URBAN ARTERIALS  
(New Construction / Reconstruction)

Table 53-6

| Design Element     | Manual Section                                    | Design Values (By Type of Area)                         |                       |                       |                       |
|--------------------|---|---|-----------------------|-----------------------|-----------------------|
|                    |   | Suburban  | Intermediate          | Built-Up              |                       |
| Bridges            | New and Reconstructed Bridges                     | HS-20   | HS-20                 | HS-20                 |                       |
|                    | Existing Bridges to Remain in Place               | HS-20   | HS-20                 | HS-20                 |                       |
|                    | *Vertical Clearance (Arterial Under) (22)         | 5.05 m  | 5.05 m (22b)          | 5.05 m (22b)          |                       |
|                    | *Vertical Clearance (Arterial over Railroad) (23) | 7.00 m  |                       |                       |                       |
| Alignment Elements | Design Speed                                      | 50 km/h   | 60 km/h               | 80 km/h               |                       |
|                    | *Stopping Sight Distance                          | 65 m  | 85 m                  | 130 m                 |                       |
|                    | Decision Sight Distance                           | Speed / Path / Direction Change<br>Stop Maneuver        | U: 195 m<br>SU: 170 m | U: 235 m<br>SU: 205 m | U: 315 m<br>SU: 270 m |
|                    |   |   | 155 m                 | 195 m                 | 280 m                 |
|                    | Intersection Sight Distance, -3% to +3% (28)      | P: 105 m<br>SU: 135 m                                   | P: 125 m<br>SU: 160 m | P: 150 m<br>SU: 185 m |                       |
|                    | *Minimum Radii for e <sub>max</sub> = 4% / 6%     | 80 m / 75 m (24a)                                       | 130 m / 120 m (24a)   | 185 m / 170 m (24a)   |                       |
|                    | *Superelevation Rate (25)                         | Up to e <sub>max</sub> = 6%                             |                       |                       |                       |
|                    | *Horizontal Sight Distance                        | (26)  |                       |                       |                       |
|                    | *Vertical Curvature (K-values)                    | 7   | 11                    | 17                    |                       |
|                    | *Maximum Grade (27)                               | 8%  | 7%                    | 6%                    |                       |
|                    | Minimum Grade                                     | 9%  | 8%                    | 7%                    |                       |
|                    |   | Desirable: 0.5% Minimum: 0.3% (Curbed); 0.0% (Uncurbed) |                       |                       |                       |

\* Controlling design criteria (see Section 40-8.0).  
 Refer to note at bottom of Table 53-2 for approval authority for Level One design exceptions.

**GEOMETRIC DESIGN CRITERIA FOR MULTI-LANE URBAN ARTERIALS  
 (New Construction/Reconstruction)**

Table 53-6 (Continued)

**GEOMETRIC DESIGN CRITERIA FOR MULTI-LANE URBAN ARTERIALS**  
(New Construction/Reconstruction)

Footnotes to Table 53-6

- (1) **Design Speed.** The minimum design speed should equal a) the minimum value from the table, b) the anticipated posted speed limit after construction or c) the state legal limit on non-posted highways, whichever is greater. The legal limit in urban districts is 50 km/h. Based upon an engineering study, these speeds may be raised to an absolute maximum of 90 km/h.
- (2) **On-Street Parking.** In general, on-street parking is discouraged.
- (3) **Travel Lane Width.** For arterials on the National Truck Network, the right lane must be 3.6 m in width.
- (4) **Surface Type.** The pavement type selection will be determined by the INDOT Pavement Design Engineer.
- (5) **Curb Offset.** The curb offset (for both left and right) should be 0.6 m. Vertical curbs introduced intermittently should be offset 0.6 m. In restricted locations, a continuous vertical curb may be offset 0.3 m, and a sloping curb offset may be zero. Vertical curbs should not be used unless the design speed or posted speed < 70 km/h.
- (6) **Shoulder Width.** The following will apply:
  - a. The shoulder is paved to the face of guardrail. The desirable guardrail offset is 0.6 m from the effective usable shoulder width. See Section 49-5.0 for more information.
  - b. The table values apply to paved shoulder widths. Desirably, an additional 0.3 m of compacted aggregate will be provided.
  - c. Where there are 3 or more lanes in one direction, the left shoulder width should match the right shoulder width.
- (7) **Cross Slope (Travel Lanes).** Cross slopes of 1.5% are acceptable on existing bridges to remain in place.
- (8) **Curb Offset for Auxiliary Lanes.** On curbed sections, the offset may be zero.
- (9) **Parking Lanes.** Where the parking lane will be used as a travel lane during peak hours or may be converted to a travel lane in the future, the width should be equal to the travel lane width plus a 0.3 m offset to the curb (if present). Cross slopes for parking lanes are typically 1% steeper than the adjacent travel lane.
- (10) **Minimum Median Width.** The criteria in the table assume the presence of mountable curbs with a 0.0-m curb offset.
- (11) **Sidewalk Width.** Buffers less than 0.6-m wide are not allowed. If no buffer is provided, the sidewalk width should be 1.8 m.
- (12) **Bicycle Lane Width.** The widths in the table are in addition to the width of parking lanes, if present. See Section 51-7.0 for additional details.
- (13) **Clear Zones.** The following will apply:
  - a. **Facilities with Vertical Curbs.** The clear zone will be measured from the edge of travel lane or will be to the right-of-way line, whichever is less. No clear zone is required where there is 24-hour parking.
  - b. **Facilities with Sloping Curbs or without Curbs.** The clear zone will vary according to design speed, traffic volumes, side slopes and horizontal curvature.
  - c. **All Curbed Facilities.** There should be an appurtenance-free area as measured from the gutter line of any curb.

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 101, BEGIN LINE 104, DELETE AND INSERT AS FOLLOWS:

**101.02 Above Normal Rainfall Inclement Weather Days**

The specific number of ~~rainfall~~ days, *during which work on the controlling operation is delayed by rain or other inclement weather including days following a weather event on which the controlling operation is still delayed, during the life each year of the contract, which exceed the estimated number of rainfall inclement weather days considered by the Department when setting the completion time for the project.*

The following chart shows the estimated number of days in each month, excluding Saturdays, Sundays, and holidays, when the Contractor will be unable to work on the controlling operation.

| Month     | Estimated Number of Days |                   |
|-----------|--------------------------|-------------------|
|           | R, RS, and M Contracts   | T and B Contracts |
| April     | 18                       | 8                 |
| May       | 8                        | 5                 |
| June      | 5                        | 3                 |
| July      | 5                        | 3                 |
| August    | 4                        | 3                 |
| September | 5                        | 3                 |
| October   | 6                        | 4                 |
| November  | 12                       | 5                 |

Other sections containing specific cross references:

None

General Instructions to Field Employees

Update Required? Y\_\_\_ N\_\_\_

By - Additional or Revision

Frequency Manual

Update Required? Y\_\_\_ N\_\_\_

By - Addition or Revision

Recurring Special Provisions potentially affected:

Standard Sheets potentially affected:

Motion: Mr.  
 Second: Mr.  
 Ayes:  
 Nays:

Action: Passed as submitted; revised  
 Effective - \_\_\_\_\_ Letting  
 \_\_\_\_\_ Supplementals

Withdrawn. Resubmit? \_\_\_\_\_

Received FHWA Approval? \_\_\_\_\_

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 104, BEGIN LINE 224, INSERT AS FOLLOWS:

**104.05 Removal and Disposal of Structures and Obstructions**

Unless otherwise provided, any existing structure or parts thereof, fence, building, or other encumbrance or obstruction upon or within the limits of the right-of-way which interferes in any way with the new construction shall be removed with no additional payment.

*All removal of structures and obstructions the Contractor is directed to perform outside the construction limits for the benefit of the Department, including work needed for utility relocation, and not simply for the Contractor's convenience, will be paid for in accordance with 104.03 or 109.03.*

Materials belonging to abutting property owners shown to be retained for the property owner shall be stockpiled in an acceptable manner at a designated area off the right-of-way. Materials not shown to be retained, except those materials mentioned in 104.06 or 805.03, shall become the property of the Contractor and shall be removed or disposed of according to the contract.

Materials to be salvaged for Department use shall be removed without damage in sections that can be readily transported. These materials shall be stockpiled neatly at locations identified on the plans or identified by the Engineer.

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| Other sections containing specific cross references: | General Instructions to Field Employees<br>Update Required? Y___ N___<br>By - Additional or Revision |
| 202.04 Pg 200-8                                      | Frequency Manual   |
| 202.06 Pg 200-9                                      | Update Required? Y___ N___<br>By - Addition or Revision  |
| Recurring Special Provisions potentially affected:   | Standard Sheets potentially affected:  |
| Motion: Mr.  | Action: Passed as submitted; revised   |
| Second: Mr.  | Effective - _____ Letting  |
| Ayes:  | _____ Supplementals  |
| Nays:  | Withdrawn. Resubmit? _____   |
|  | Received FHWA Approval? _____  |

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 105, AFTER LINE 235, INSERT AS FOLLOWS:

*The Contractor shall schedule its construction engineering operation, including staking, in a timely fashion so as to assist the utilities in the relocation/adjustment of their facilities as early as possible in the contract. All staking the Contractor is directed to perform to assist the utilities' relocation and which is considered to be in addition to the normal staking required, will be paid for in accordance with 104.03 or 109.03.*

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|--|--|
| Other sections containing specific cross references: | General Instructions to Field Employees<br>Update Required? Y___ N___<br>By - Additional or Revision |
| None   | Frequency Manual<br>Update Required? Y___ N___<br>By - Addition or Revision                          |

|  |                                       |
|--|---------------------------------------|
| Recurring Special Provisions potentially affected: | Standard Sheets potentially affected: |
|--|---------------------------------------|

|             |                                      |
|-------------|--------------------------------------|
| Motion: Mr. | Action: Passed as submitted; revised |
| Second: Mr. | Effective - _____ Letting            |
| Ayes:       | _____ Supplementals                  |
| Nays:       | Withdrawn. Resubmit? _____           |
|             | Received FHWA Approval? _____        |

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 107, BEGIN LINE 616, DELETE AND INSERT AS FOLLOWS:

**107.20 Contractor's Responsibility for Utility Property and Services**

At points where the Contractor's operations are adjacent to properties of railroad, telegraph, telephone, and power companies or are adjacent to other property, damage to which might result in considerable expenses, loss, or inconvenience, work shall not be commenced until all arrangements necessary for the protection thereof have been made.

~~There shall be cooperation-~~ *The Contractor shall coordinate and cooperate with the owners of all underground or overhead utility lines in their removal and rearrangement relocation operations in order that these operations this work may progress in a reasonable manner, that duplication of rearrangement relocation work may be reduced to a minimum, and that services rendered by those parties are not unnecessarily interrupted.*

If it is necessary to place pipes or conduits through structures, sheet metal sleeves shall be provided around the pipe or conduit to make a sliding joint or provide suitable openings as required, with no additional payment.

If there is an interruption to water or utility services as a result of accidental breakage or as a result of being exposed or unsupported, the Contractor shall promptly notify the proper authority, and shall cooperate with the said authority in the restoration of service. If water service is interrupted, repair work shall be continuous until the service is restored. No work shall be undertaken around fire hydrants until provisions for continued service have been approved by the local fire authority.

*The Contractor shall establish and maintain open and accurate communication with each utility affected by the construction with a copy of all communication being sent to the Engineer. The Contractor shall prepare its construction schedule to accommodate all of the utility work plans included in the contract documents including some allowance for unexpected variation in the anticipated utility work plan and schedule.*

~~The Contractor shall assume all risk and liability for any inconvenience, delay, or expense that may be occasioned by public utilities or other public or private property within the limits of the proposed improvement, whether or not such property is shown on the plans. However, time for completion of the contract may be extended in accordance with 105.06.~~ Regardless of previous notification by the Department, the Contractor shall give notice to the owners of each utility located within the contract limits, or which might be affected by the work, in sufficient time before beginning work for the owners to relocate or protect their property. No work shall be done which injures or damages such property until satisfactory arrangements have been completed with the owner for its protection, relocation, or reconstruction.

*Prior to any work which penetrates any existing soil or pavement surface, the Contractor shall notify both the Indiana Underground Plant Protection Service, IUPPS, in accordance with IC 8-1-26 requirements and the Engineer in accordance with 105.08 prior to commencing construction operations in an area that may affect underground utilities.*

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 107, CONTINUED.

Other sections containing  
specific cross references:

None

General Instructions to Field Employees

Update Required? Y\_\_\_ N\_\_\_

By - Additional or Revision

Frequency Manual

Update Required? Y\_\_\_ N\_\_\_

By - Addition or Revision

Recurring Special Provisions  
potentially affected:

Standard Sheets potentially affected:

Motion: Mr.

Second: Mr.

Ayes:

Nays:

Action: Passed as submitted; revised

Effective - \_\_\_\_\_ Letting

\_\_\_\_\_ Supplementals

Withdrawn. Resubmit? \_\_\_\_\_

Received FHWA Approval? \_\_\_\_\_

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 108, BEGIN LINE 246, DELETE AND INSERT AS FOLLOWS:

**108.08 Determination and Extension of Contract Time**

The number of days allowed for the completion of the work included in the contract will be stated in the Proposal book and will be known as the contract time.

If the contract time is on a work day basis, as defined in 101.71, a weekly statement showing the number of days charged to the contract to date and for the preceding week, the number of days specified for completion of the contract, ~~and~~ the days remaining *and the controlling operation* will be furnished. The Contractor will be allowed one week from the date it receives the statement in which to file a written protest setting forth in what respect said weekly statement is incorrect. Otherwise, the statement will be deemed to have been accepted by the Contractor as correct. For the purpose of computation, work days will be considered as beginning on the fifteenth calendar day after the date of the notice to proceed. All calendar days elapsing between the effective dates of orders to suspend work and to resume work for suspensions which are not the fault of the Contractor will be excluded.

If the contract time is on a calendar day basis, it shall consist of the number of calendar days stated in the contract including all Sundays, holidays, and non-work days counting from the date of the notice to proceed. All calendar days elapsing between the effective dates of any orders to suspend work and to resume work for suspensions not the fault of the Contractor will be excluded. *A weekly statement showing the controlling operation will be furnished.*

If the contract time is a fixed calendar date, it shall be the date on which all work on the contract shall be completed. For such contracts, an extended date of completion will be considered for delay in the issuance of the notice to proceed if the notice to proceed is not issued within 30 days of the letting, except if the delay is due to the failure of the Contractor to furnish requested forms or information. Unless otherwise determined, an extension to the contract completion date and intermediate completion date will be allowed for each calendar day from 30 days after the date of the letting to and including the date of the notice to proceed. *A weekly statement showing the controlling operation will be furnished.*

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 108, CONTINUED.

Other sections containing  
specific cross references:

- 108.03 Pg 100-71
- 108.09 Pg 100-78
- 111.09 Pg 100-97

Recurring Special Provisions  
potentially affected:

Motion: Mr.  
 Second: Mr.  
 Ayes:  
 Nays:

General Instructions to Field Employees

Update Required? Y\_\_\_ N\_\_\_

By - Additional or Revision

Frequency Manual

Update Required? Y\_\_\_ N\_\_\_

By - Addition or Revision

Standard Sheets potentially affected:

Action: Passed as submitted; revised  
 Effective - \_\_\_\_\_ Letting  
 \_\_\_\_\_ Supplementals

Withdrawn. Resubmit? \_\_\_\_\_

Received FHWA Approval? \_\_\_\_\_

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 109, AFTER LINE 571, INSERT AS FOLLOWS:

**109.05.1 Quality Adjustments**

*Quality adjustments are those adjustments in the payment for work done or materials furnished and incorporated into the work which either exceed or fall below the standards established by the contract.*

*A change order will be prepared in accordance with 109.05 to reflect these adjustments. The unit price for these adjustments will one dollar and the quantities will be in units of dollars.*

*Payment will be made under:*

| <b>Pay Item</b>                    | <b>Pay Unit Symbol</b> |
|------------------------------------|------------------------|
| Quality Adjustments, _____<br>type | .....DOL               |

*The dollars shown shall be the amount of the quality adjustments for the following types and may consist of plus or minus adjustments.*

**(a) HMA**

*Quality adjustments with respect to mixture, density, and smoothness for mixture produced will be computed in accordance with 401.19.*

**(b) PCCP**

*Quality adjustments will be calculated in accordance with 501.28.*

**(c) Superstructure Concrete, SC**

*Quality adjustments will be calculated in accordance with 730.19.*

**(d) Temporary Traffic Control Devices, TTCD**

*Quality adjustments with respect to non-compliance with the ATSSA brochure titled Quality Standards For Work Zone Traffic Control Devices will be assessed when the device is deemed to be in non-compliance in accordance with 801.03. Adjustments will be determined in accordance with 105.14.*

*Adjustments for non-compliance of construction warning lights will be determined in accordance with 801.14.*

REVISION TO 2006 STANDARD SPECIFICATIONS

SECTION 109, AFTER LINE 571, INSERT AS FOLLOWS:

***(e) Failed Materials, FM***

*Quality adjustments for materials which are deemed below the standards established, but which are allowed to remain in place by the Department's Failed Materials Committee in accordance with 105.03, will be as determined by that committee.*

SECTION 401, BEGIN LINE 611, DELETE AND INSERT AS FOLLOWS:

Adjustments to the contract payment with respect to mixture, density, and smoothness for mixture produced will be included in a quality assurance adjustment pay item *in accordance with 109.05.1. The unit price for this pay item will be one dollar (\$1.00) and the quantity will be in units of dollars. The quantity is the total calculated in accordance with 401.19. A change order developed in accordance with 109.05 will be prepared to reflect contract adjustments.*

SECTION 401, DELETE LINE 627.

SECTION 501, BEGIN LINE 593, DELETE AND INSERT AS FOLLOWS:

Adjustments to the contract payment with respect to flexural strength, thickness, air content, range and smoothness will be included in a quality assurance adjustment pay item *in accordance with 109.05.1. The unit price for this pay item will be one dollar (\$1.00). The quantity is the total calculated in accordance with 501.28. A change order developed in accordance with 109.05 will be prepared to reflect contract adjustments.*

SECTION 501, DELETE LINE 616.

Other sections containing specific cross references:

109.05.1

None

401.22

410.22 Pg 400-50

501.31

502.23 Pg 500-25

General Instructions to Field Employees

Update Required? Y\_\_\_ N\_\_\_

By - Additional or Revision

Frequency Manual

Update Required? Y\_\_\_ N\_\_\_

By - Addition or Revision

Recurring Special Provisions potentially affected:

Standard Sheets potentially affected:

Motion: Mr.

Second: Mr.

Ayes:

Nays:

Action: Passed as submitted; revised

Effective - \_\_\_\_\_ Letting

\_\_\_\_\_ Supplementals

Withdrawn. Resubmit? \_\_\_\_\_

Received FHWA Approval? \_\_\_\_\_