#### Interim Transition with SH 114

The Project includes the development of an interim facility for the transition with SH 114, east of the SH 114/SH 121/Internatuional Parkway Interchange, as well as certain design and right of way acquisition services for the Schematic facility to be constructed in the future.

#### **TxDOT Preliminary Plan Package**

The Schematic Design and interim SH 114 configuration (Attachment 1-1) have been developed to a limited level and are generally conceptual in nature. Regardless of whether an entirely new plan, or an adaptation of the above referenced preliminary design information, is proposed, Developer is responsible for ensuring that interim SH 114 configuration and Schematic Design satisfies the requirements of the CDA Documents. If the above referenced preliminary design information is utilized, Developer shall diligently review, and verify the accuracy and applicability of, the information prior to use. Deviations from, and/or changes to, the preliminary design information that are necessary in order to satisfy the requirements of the CDA Documents are the responsibility of Developer and any related costs shall be included in the Price.

#### Accommodation of Schematic Design for SH 114 Interim Transition

Developer shall provide for a smooth transition from the Project's interim SH 114 configuration to the Project's Schematic Design condition. Developer shall endeavor to minimize "throw-away" costs to TxDOT associated with improving the interim SH 114 configuration to meet the requirements of the future Schematic Design configuration. The Development Work shall provide for minimal disruption to traffic during the Schematic Design construction phase. Additionally, Developer shall minimize the cost associated with the future Schematic Design construction to the extent that Developer costs to construct the interim SH 114 configuration does not unreasonably increased. The Development Work, as a minimum, shall accommodate the Schematic Design configuration as described below:

#### Roadway

The interim SH 114 transition shall be designed and constructed coincident with the Schematic Design horizontal and vertical alignments to the maximum extent practicable. Developer shall provide for a smooth transition from the Project's interim SH 114 configuration to the Project's Schematic Design condition.

Developer shall also have the flexibility to propose revisions to the horizontal alignment and vertical profile of the interim SH 114 configuration and/or Schematic Design that do not modify the design criteria contained herein; however, any horizontal or vertical modifications that cause a change in the Schematic ROW will require prior consent from TxDOT. Developer shall revise the Schematic Design configuration as necessary to reflect any changes to horizontal and vertical alignments. Furthermore, any changes to the Schematic ROW, due to horizontal and/or vertical modifications of the alignment, may affect environmental approval, permitting or right of way parcels maps.

Deviations from these criteria may require revisions to, or re-issuance of, the Environmental Approvals and/or Governmental Approvals, which shall be performed solely at the responsibility and cost of Developer. Developer shall not be entitled to any time extension or additional compensation in connection with such revisions or re-issuances.

#### Drainage

The drainage systems shall be designed and constructed to accommodate the Schematic Design with minimal throwaway work. Where coincident with the Schematic Design geometry, ditch sections and closed drainage systems (i.e. pipes and inlets) shall be designed and constructed to accommodate the Interim SH 114 configuration or Schematic

Design, whichever controls. The physical location of inlet structures shall accommodate the Schematic Design. Cross drainage structures (i.e. culverts) shall be designed, sized and constructed to satisfy Schematic Design requirements. Developer shall construct culverts to the length required to accommodate the Schematic Design.

At a minimum, the drainage system must meet the following requirements:

- A) The analysis, design and construction of all drainage structures and appurtenances shall address the interim SH 114 configuration and Schematic Design improvements.
- B) Provide drainage for the interim SH 114 configuration design and Schematic Design to protect the roadway, subsurface and highway structures from water damage.
- C) Design and construction of drainage system shall accommodate the interim SH 114 configuration and Schematic Design configuration. Consideration shall be given to, but not limited to, pipe, inlet locations, capacity, culvert inlet and outlet structures locations, and junction/manhole structure locations.
- D) Only bridges and bridge-class culverts are shown on the Schematic Design. It is Developer's responsibility to determine the location and appropriate size for all other culverts needed to address the Schematic Design configuration for the Project.
- E) The water quality measures shall be designed for the interim SH 114 configuration and Schematic Design conditions.
- F) Developer shall perform hydrologic analyses for the design of drainage features for the interim SH 114 configuration and Schematic Design.

#### **Paving**

In locations where the interim SH 114 configuration is coincident with the Schematic Design, pavement shall be designed and constructed to Schematic Design requirements. Paving limits shall satisfy the requirements of the interim SH 114 configuration. In determining limits of paving in the interim SH 114 configuration, Developer shall give ample consideration to the Schematic Design geometry and strive to minimize future impact on traffic operations.

#### **Bridges & Walls**

Developer shall design and construct bridge structures required for the interim SH 114 configuration to the total length and span arrangement required for the Schematic Design, including spanning future lanes that will be constructed below the structure as a part of the Schematic Design. With the exception of direct-connect flyover structures, Developer shall design and construct bridge structures to the width required to satisfy the requirements of the interim SH 114 configuration. Direct-connect flyover structures shall be designed and built to the width required to satisfy the Schematic Design, striping shall accommodate the interim SH 114 configuration requirements. In locations where the interim SH 114 configuration does not call for the construction of the direct-connect structures, Developer shall make provisions to accommodate the future construction. Reasonable care shall be taken in the Developer design to ensure that bridges constructed for the interim SH 114 configuration can be widened to the Schematic Design width at a later date with minimal impact to aesthetics and minimal impact to traffic. Developer shall, if necessary, construct portions of the Schematic Design (e.g., footings, ducts, bents, etc.) to ensure future impacts are minimized. At bridges with wrap-around MSE wall supported abutments, the MSE wall shall be designed and constructed to the length required to satisfy the interim SH 114 configuration or Schematic Design, whichever governs. The Developer shall design and construct abutments behind MSE walls to the Schematic Design width, or provide specific accommodations for future widening. All retaining walls within the limits of interim SH 114 configuration construction

shall be designed and constructed to meet the requirements of the Schematic Design.

Bridges carrying local roads over the Schematic Design shall, at a minimum, be of a type of construction to accommodate the Schematic Design and any planned expansion or update of each facility by its respective owner while still maintaining the required horizontal and vertical clearances. Each submittal shall also include horizontal and vertical clearance provisions for interim SH 114 configuration and Schematic Design build-out improvements. Fencing shall be required along some bridges, pedestrian overpasses and Schematic ROW of the Schematic Design.

#### **Sign Structures**

Where feasible, sign structures shall be located to accommodate the Schematic Design. Sign bridges located within the interim SH 114 configuration construction limits shall span the greater of the Schematic Design or interim SH 114 configuration.

Developer shall take into account the Schematic Design configuration, including potential widening of the Project, in its design of overhead and cantilever sign supports.

#### Lighting

Lighting shall be designed and constructed to accommodate the Schematic Design or interim SH 114 configuration, whichever governs. The location of high-mast lighting within the interim SH 114 construction limits shall satisfy the Schematic Design.

#### Landscaping

Where the interim SH 114 configuration is coincident with the Schematic Design, landscaping shall be designed and constructed to meet Schematic Design requirements. In locations where the interim SH 114 configuration does not coincide with the Schematic Design, Developer shall provide additional landscaping to achieve the desired aesthetic affect.

#### **Utilities**

Developer shall provide sleeves, for future utility services, under roadway paving consistent with the Schematic Design. Developer shall ensure that the design and construction of all Utility Adjustments are compatible with the Schematic Design and that all such Utilities are compatible with and interface properly with the Project. Developer shall be responsible for verifying that all design plans for Utility Adjustment Work, whether furnished by Developer or by the Utility Owner, are consistent and compatible with the Schematic Design.

With written approval by TxDOT, Utilities may remain in their existing location if (a) the requirements of the UAP are met, (b) the existing location will not adversely affect the Development Work, the future operation of the Project or the Schematic Design, and (c) the Utility Owner's standards of practice are met.

Continuous steel casings shall be provided for all water and pressurized sanitary sewer line crossings under center medians and from center of ditch to center of ditch for cut sections, five (5) feet beyond the toe of slope for fill sections, or five (5) feet beyond the face of curb, based on the Schematic Design.

Developer shall be responsible for Protecting in Place (or causing to be Protected in Place by the Utility Owner at Developer's expense) all Utilities impacted by the Project or projected to be impacted by the Schematic Design (including any Utilities remaining in place and any Utilities newly reinstalled as part of the Utility Adjustment Work or the Early Adjustment Work), as necessary to ensure their continued safe operation and structural integrity and in accordance with the requirements described in the Technical Provisions.

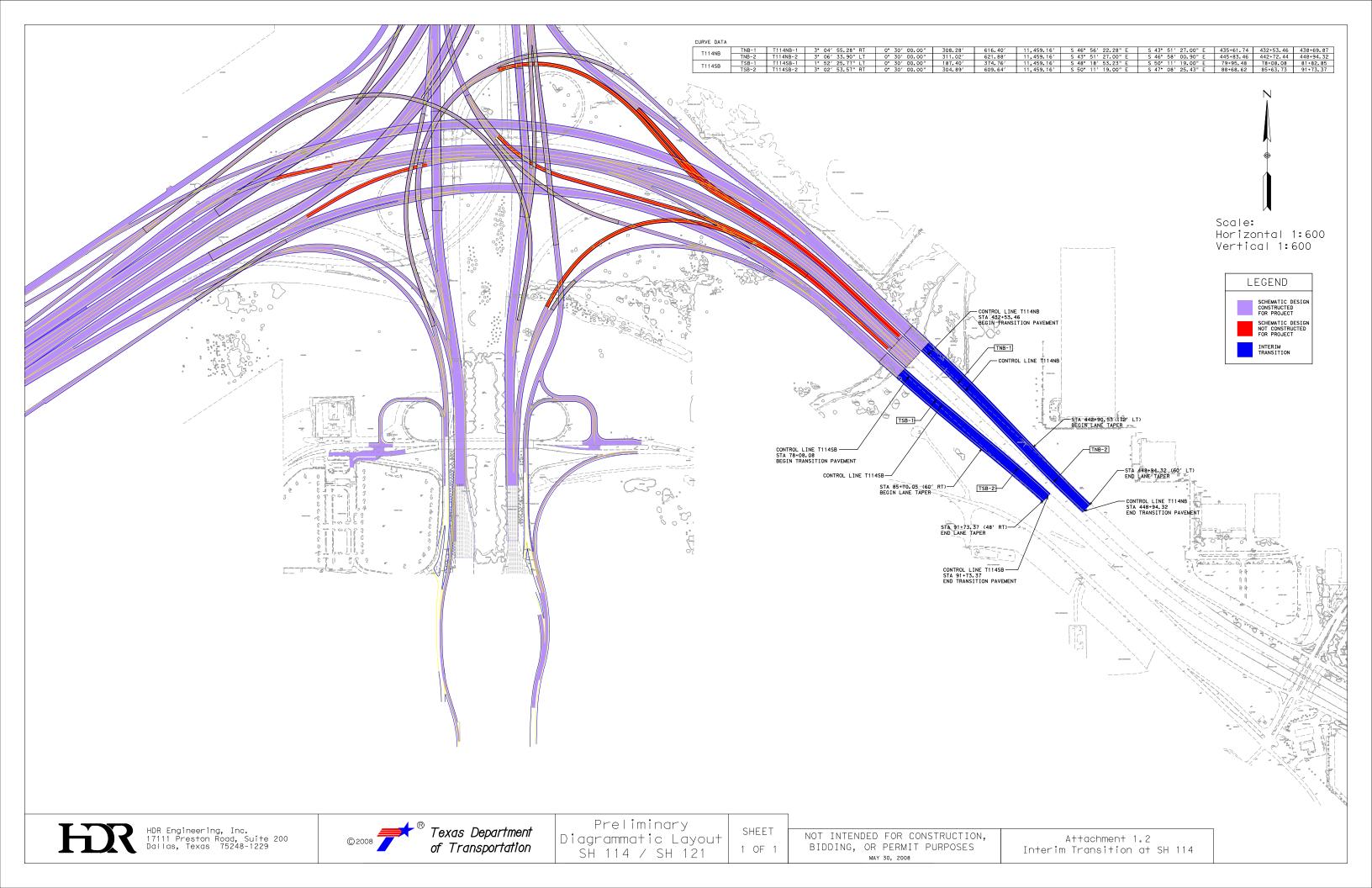
Developer is fully responsible for coordinating its efforts with Utility Owners and for addressing requests by Utility Owners that Developer design and/or construct Utility Enhancements. Under no circumstances shall Developer proceed with any Utility Enhancement which is incompatible with the Project or the Schematic Design or which cannot be performed within the other constraints of applicable Law, the Governmental Approvals and the CDA Documents, including the Completion Deadlines.

Developer shall be required to provide supporting design information and cost information, satisfactory to TxDOT, to ensure that the above requirements have been met. Developer, to the satisfaction of TxDOT, shall provide documentation supporting the feasibility of the Schematic Design with respect to the Developer proposed interim SH 114 configuration. TxDOT shall have no obligation to accept the Schematic Design for any element of the Development Work until TxDOT has determined that Developer has achieved the above requirements.

# Texas Department of Transportation Technical Provisions

Book 2

Attachment 1-2
Interim Transition for SH 114



# **Configuration 1**

The Project includes the development of Configuration 1 for DFW Connector, as well as certain design and right of way acquisition services for the Configuration 3 to be constructed in the future.

## **TxDOT Preliminary Plan Package**

Configuration 3 and the Configuration 1 (Attachment 1-4) have been developed to a limited level and are generally conceptual in nature. Regardless of whether an entirely new plan, or an adaptation of the above referenced preliminary design information, is proposed, Developer is responsible for ensuring that the Configuration 1 and Configuration 3 satisfies the requirements of the CDA Documents. If the above referenced preliminary design information is utilized, Developer shall diligently review, and verify the accuracy and applicability of, the information prior to use. Deviations from, and/or changes to, the preliminary design information that are necessary in order to satisfy the requirements of the CDA Documents are the responsibility of Developer and any related costs shall be included in the Development Price.

## Accommodation of Configuration 3 for Configuration 1

Developer shall provide for a smooth transition from Configuration 1 to Configuration 3. Developer shall endeavor to minimize "throw-away" costs to TxDOT associated with improving Configuration 1 to meet the requirements of the future Configuration 3 Design. The Development Work shall provide for minimal disruption to traffic during the construction phase. Additionally, Developer shall minimize the cost associated with the future Configuration 3 construction to the extent that Developer cost to construct the Configuration 1 is not unreasonably increased as described below.

Elements of the future build-out of Configuration 3 that require the removal of installed permanent pavement or structure shall be built as part of Configuration 1. Elements of future construction that require removal of installed transition pavement or structure will not have to be part of Configuration 1.

The Development Work, as a minimum, shall accommodate the Configuration 3 configuration as described below:

#### Roadway

Configuration 1 shall be designed and constructed coincident with the Configuration 3 horizontal and vertical alignments with the exceptions of the transition roadways leading to/from existing pavements as shown in Attachment 1-4. Developer shall provide for a smooth transition from Configuration 1 to Configuration 3.

Developer shall also have the flexibility to propose revisions to the horizontal alignment and vertical profile of Configuration 1 and/or Configuration 3 Design that do not modify the design criteria contained herein; however, any horizontal or vertical modifications that cause a change in the Schematic ROW will require prior consent from TxDOT. Developer shall revise Configuration 3 as necessary to reflect any changes to horizontal and vertical alignments. Furthermore, any changes to the Schematic ROW, due to horizontal and/or vertical modifications of the alignment, may affect environmental approval, permitting or right of way parcels maps.

Deviations from these criteria may require revisions to, or re-issuance of, the Environmental Approvals and/or Governmental Approvals, which shall be performed solely at the responsibility and cost of Developer. Developer shall not be entitled to any time extension or additional compensation in connection with such revisions or re-issuances.

#### **Drainage**

The drainage systems shall be designed and constructed to accommodate Configuration 3 with minimal throwaway work where Configuration 1 is coincident with Configuration 3 as shown below. Where Configuration 1 is not coincident with Configuration 3, drainage systems shall only be required to meet Configuration 1 requirements.

Geometry, ditch sections and closed drainage systems (i.e. pipes and inlets) shall be designed and constructed to accommodate Configuration 1 or Configuration 3, whichever controls. The physical location of inlet structures shall accommodate Configuration 3. Cross drainage structures (i.e. culverts) shall be designed, sized and constructed to satisfy Configuration 3 requirements. Developer shall construct culverts to the length required to accommodate the Configuration 3

At a minimum, the drainage system must meet the following requirements:

- A) The analysis, design and construction of all drainage structures and appurtenances shall address Configuration 1 and Configuration 3 improvements.
- B) Provide drainage for Configuration 1 and Configuration 3 to protect the roadway, subsurface and highway structures from water damage.
- C) Design and construction of drainage system shall accommodate Configuration 1 and Configuration 3. Consideration shall be given to, but not limited to, pipe, inlet locations, capacity, culvert inlet and outlet structures locations, and junction/manhole structure locations.
- D) Only bridges and bridge-class culverts are shown on Configuration 3. It is Developer's responsibility to determine the location and appropriate size for all other culverts needed to address the Configuration 3.
- E) The water quality measures shall be designed for Configuration 1 and Configuration 3 conditions.
- F) Developer shall perform hydrologic analyses for the design of drainage features for Configuration 1 and Configuration 3.

#### **Paving**

All pavements constructed as part of Configuration 1 shall be designed and constructed to meet all the Technical Provisions. Paving limits shall satisfy the requirements of the Configuration 1.

#### **Bridges & Walls**

Developer shall design and construct bridge structures required for Configuration 1, with the exceptions of structures required solely for transition roadways leading to/from existing pavements as shown in Attachment 1-4, to the total length, width, and span arrangement required for Configuration 3, including spanning future lanes that will be constructed below the structure as a part of the Configuration 3. In locations where the Configuration 1 does not call for the construction of direct-connect structures required for Configuration 3, Developer shall make provisions for future construction without allowance for removal of permanent pavement or structures. Removal of transition pavement or structures during future Configuration 3 construction is permitted. Developer shall, if necessary, construct portions of the Configuration 3 (e.g., footings, ducts, bents, etc.) to ensure future impacts are minimized. At bridges with wrap-around MSE wall supported abutments, the MSE wall shall be designed and constructed to the length required to satisfy Configuration 1 or Configuration 3,

whichever governs. The Developer shall design and construct abutments behind MSE walls to Configuration 3 width, or provide specific accommodations for future widening. For all retaining walls required for construction of roadways within the limits of Configuration 1, with the exceptions of retaining walls required solely for the transition roadways leading to/from existing pavements as shown in Attachment 1-4, construction shall be designed and constructed to meet the requirements of the Configuration 3.

Bridges carrying local roads over Configuration 3 shall, at a minimum, be of a type of construction to accommodate Configuration 3. Each submittal shall also include horizontal and vertical clearance provisions for the Configuration 1 and Configuration 3 build-out improvements. Fencing shall be required along some bridges, pedestrian overpasses and Schematic ROW of Configuration 3.

#### Sign Structures

Where feasible, sign structures shall be located to accommodate the Configuration 3. Sign bridges located within Configuration 1 construction limits, with the exceptions of sign bridges required solely along transition roadways leading to/from existing pavements as shown in Attachment 1-4, shall span the greater of the Configuration 3 or Configuration 1.

Developer shall take into account the Configuration 3 in its design of overhead and cantilever sign supports.

#### Lighting

Lighting shall be designed and constructed to accommodate the Configuration 3 or the Configuration 1, whichever governs. The location of high-mast lighting within Configuration 1 construction limits shall satisfy Configuration 3.

#### Landscaping

Where the Configuration 1 is coincident with the Configuration 3, landscaping shall be designed and constructed to meet Configuration 3 requirements. In locations where Configuration 1 is not coincident with the Configuration 3, Developer shall provide additional landscaping to achieve the desired aesthetic affect.

#### Utilities

Developer shall ensure that the design and construction of all Utility Adjustments are compatible with Configuration 1 and that all such Utilities are compatible with and interface properly with the Project. Developer shall be responsible for verifying that all design plans for Utility Adjustment Work, whether furnished by Developer or by the Utility Owner, are consistent and compatible with Configuration 1.

With written approval by TxDOT, Utilities may remain in their existing location within the Configuration 1 limits if (a) the requirements of the UAP are met, (b) Configuration 1 can be constructed with the utility in its existing location and will not adversely affect the Development Work, and (c) the Utility Owner's standards of practice are met.

Continuous steel casings shall be provided for all water and pressurized sanitary sewer line crossings under center medians and from center of ditch to center of ditch for cut sections, five (5) feet beyond the toe of slope for fill sections, or five (5) feet beyond the face of curb, based on the Configuration 1.

Developer shall be responsible for Protecting in Place (or causing to be Protected in Place by the Utility Owner at Developer's expense) all Utilities impacted by Configuration 1 (including any Utilities remaining in place and any Utilities newly reinstalled as part of the Utility Adjustment Work or the Early Adjustment Work), as necessary to ensure their continued safe operation and structural integrity and in accordance with the requirements described in the Technical Provisions.

Developer is fully responsible for coordinating its efforts with Utility Owners and for addressing requests by Utility Owners that Developer design and/or construct Utility Enhancements. Under no circumstances shall Developer proceed with any Utility Enhancement which is incompatible with Configuration 1 or which cannot be performed within the other constraints of applicable Law, the Governmental Approvals and the CDA Documents, including the Completion Deadlines.

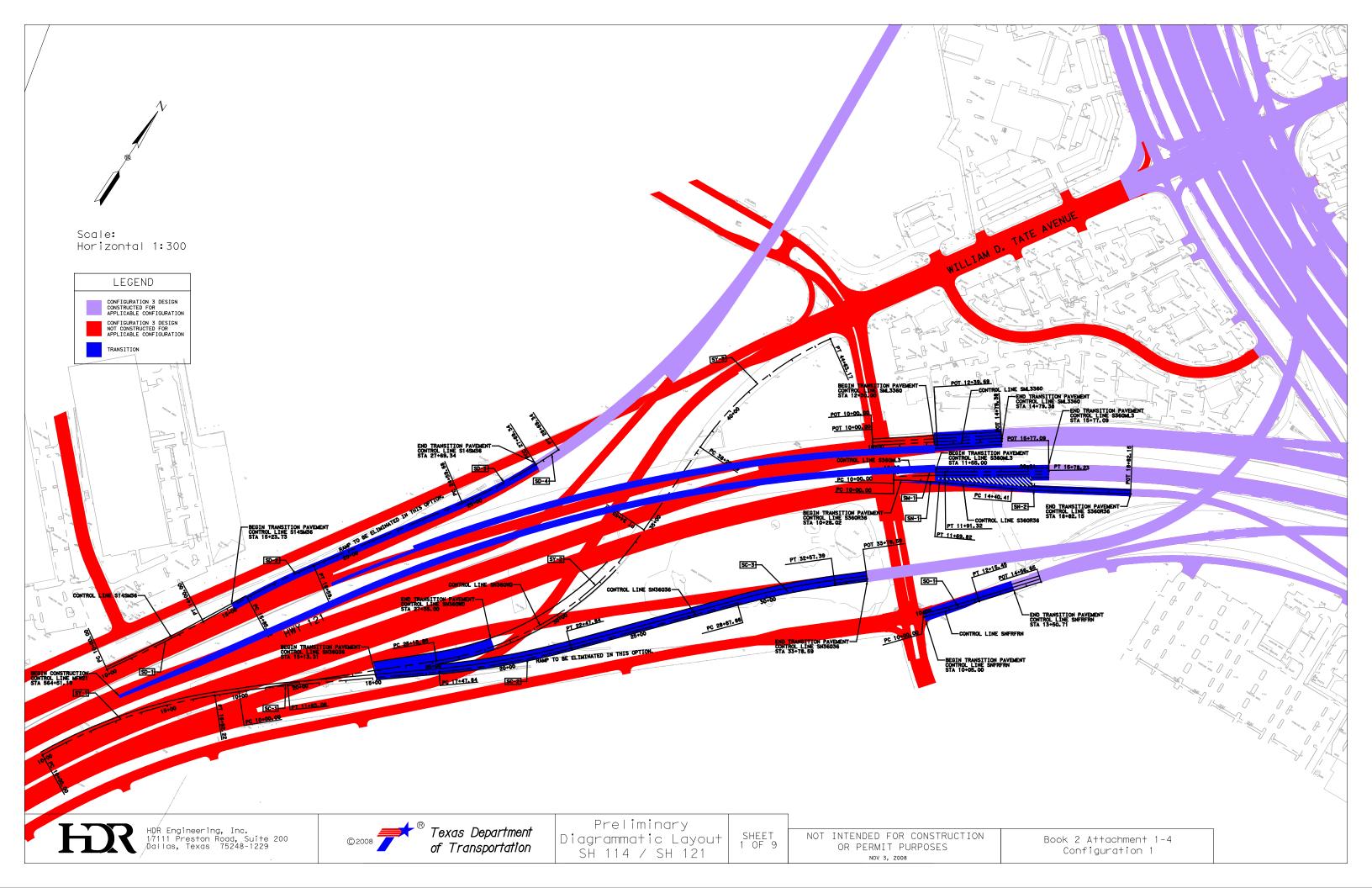
Developer shall be required to provide supporting design information and cost information, satisfactory to TxDOT, to ensure that the above requirements have been met. Developer, to the satisfaction of TxDOT, shall provide documentation supporting the feasibility of Configuration 1. TxDOT shall have no obligation to accept the Configuration 1 for any element of the Development Work until TxDOT has determined that Developer has achieved the above requirements.

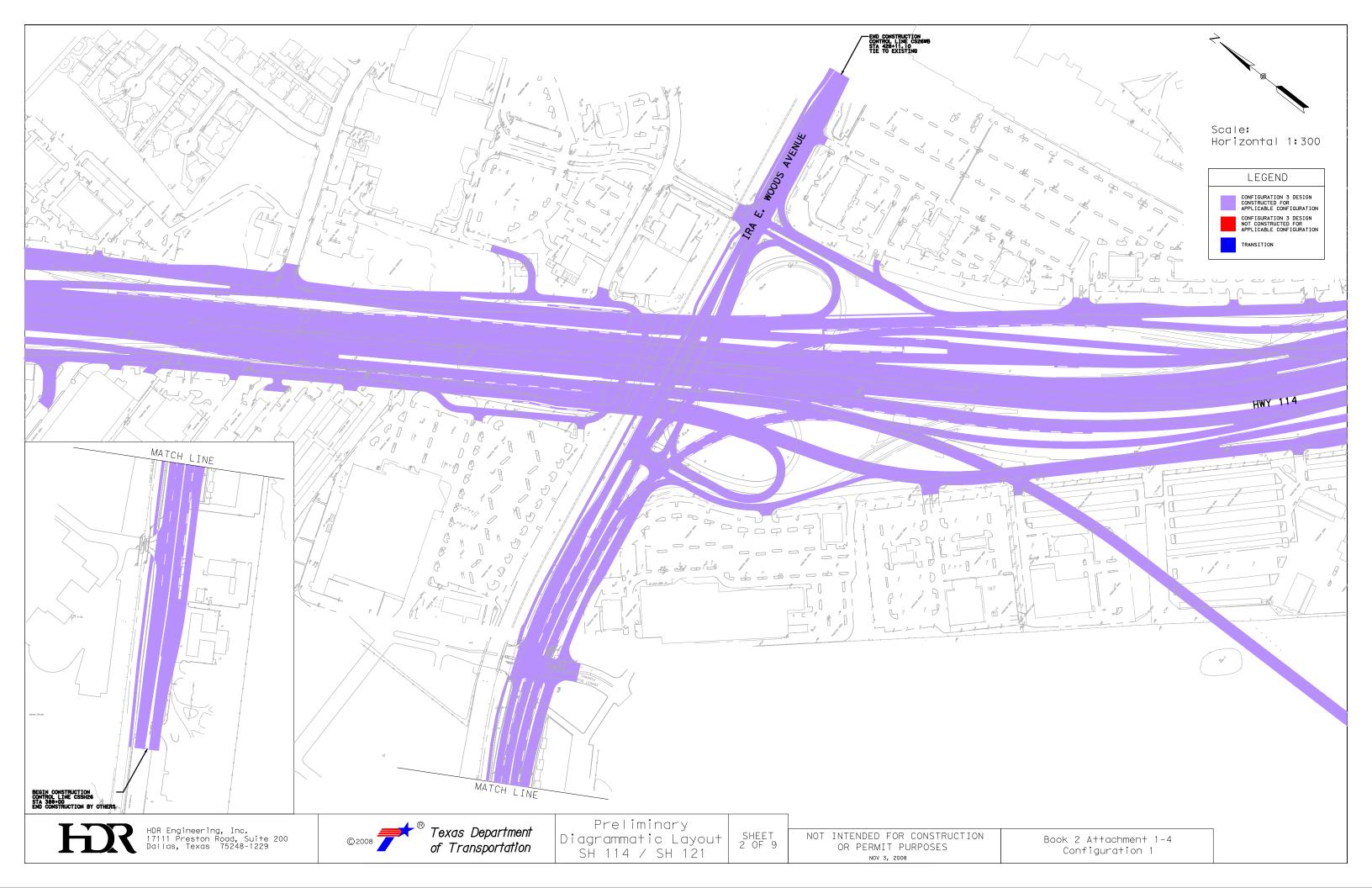
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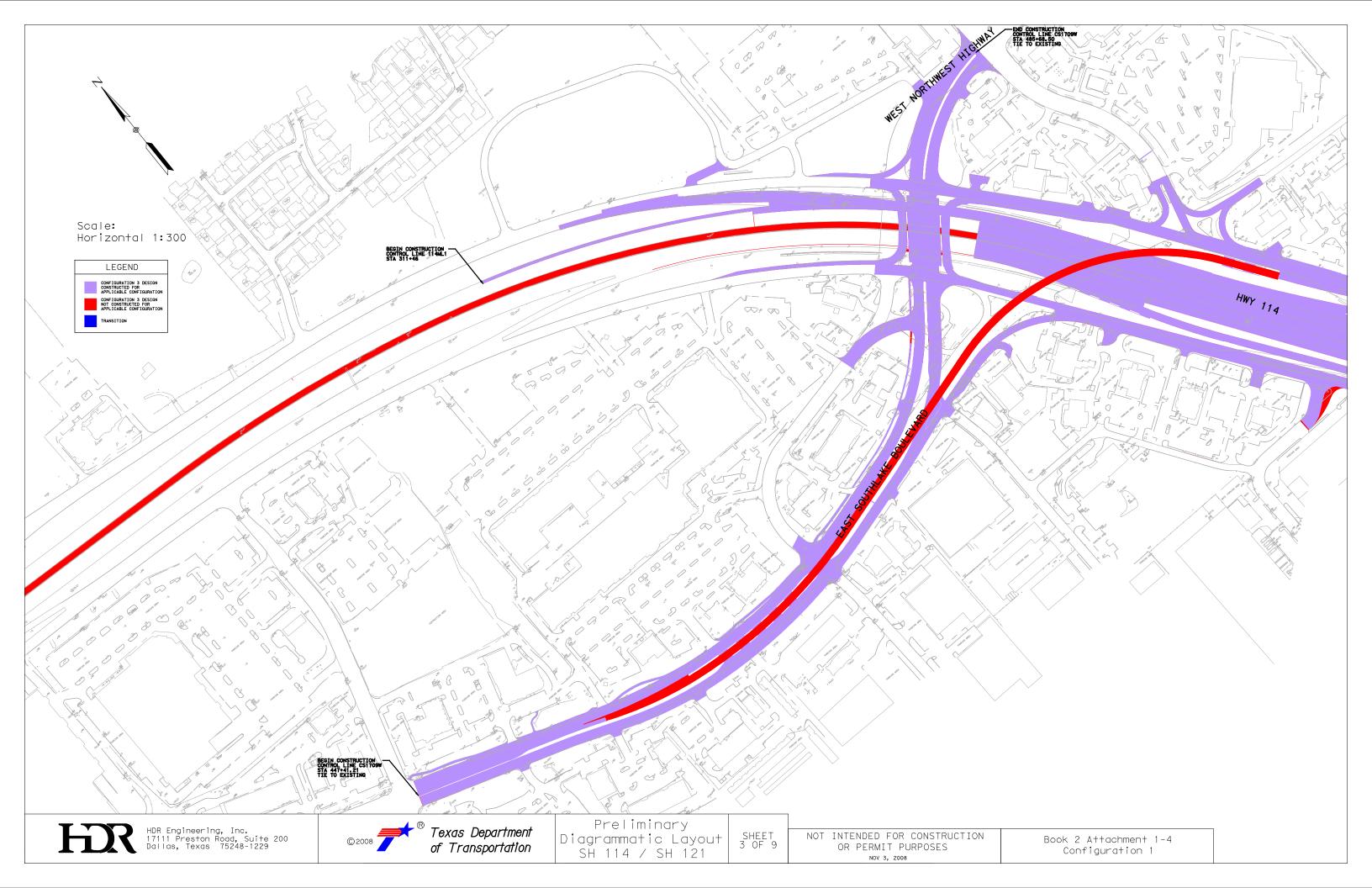
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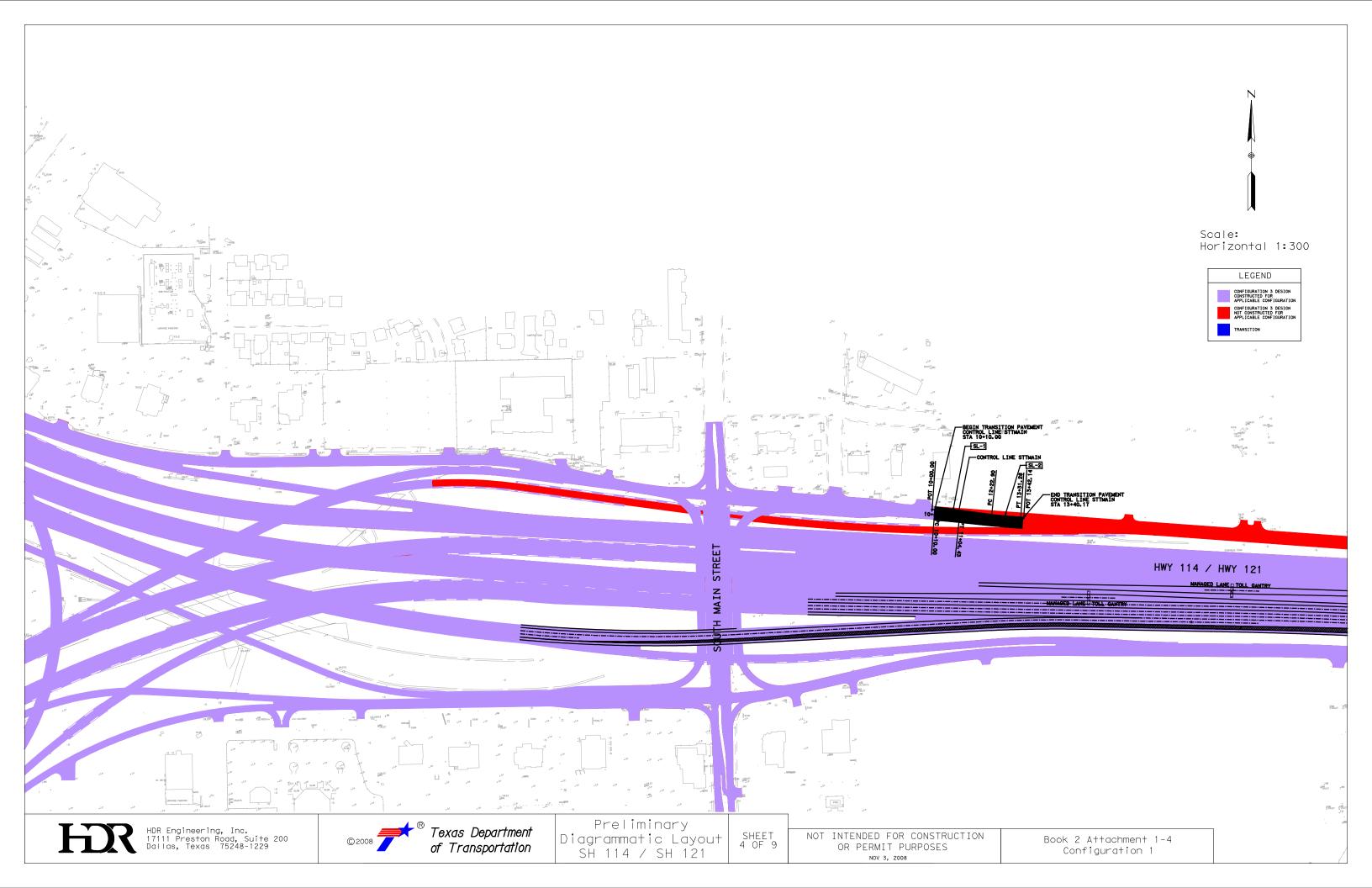
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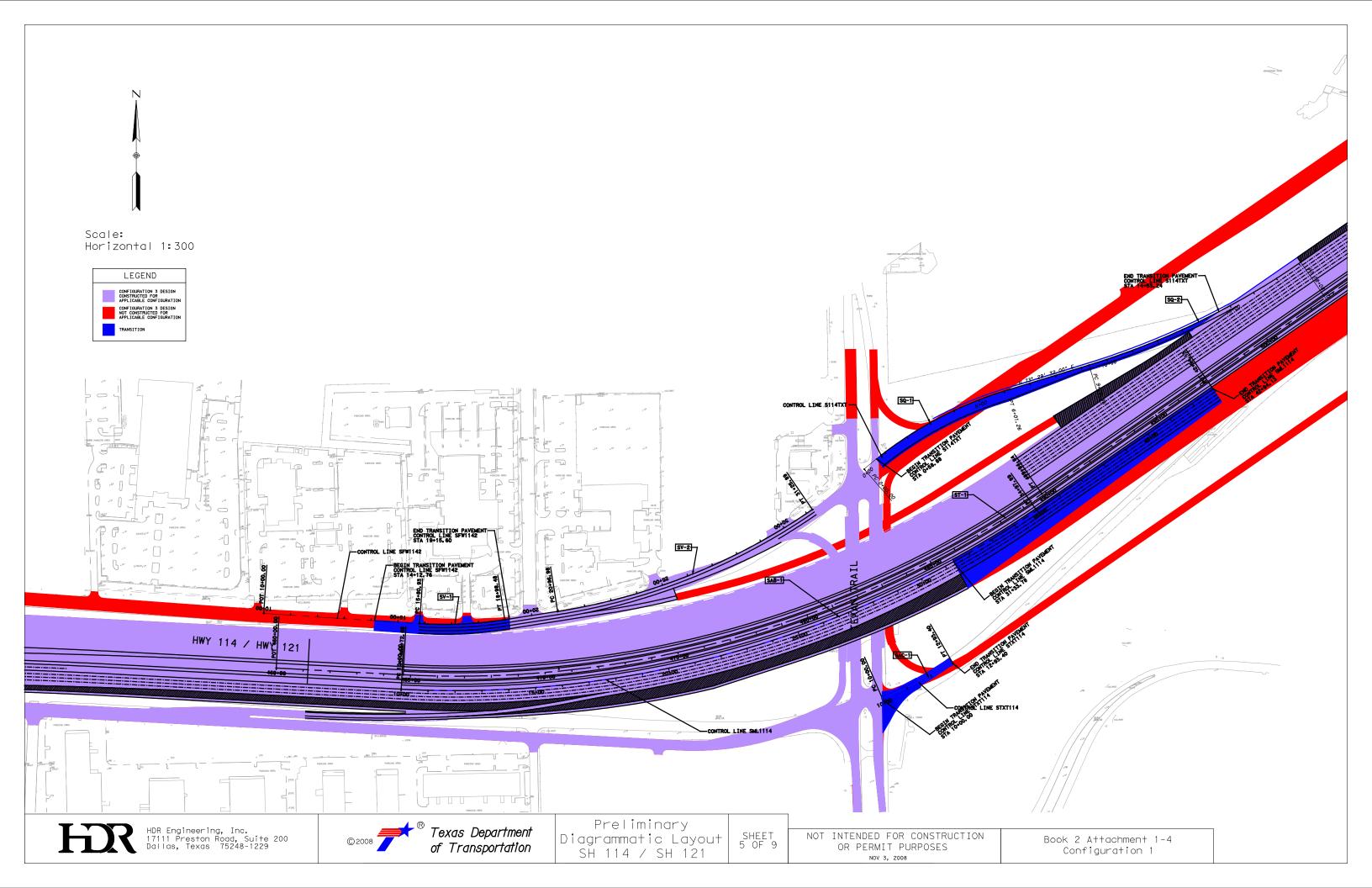
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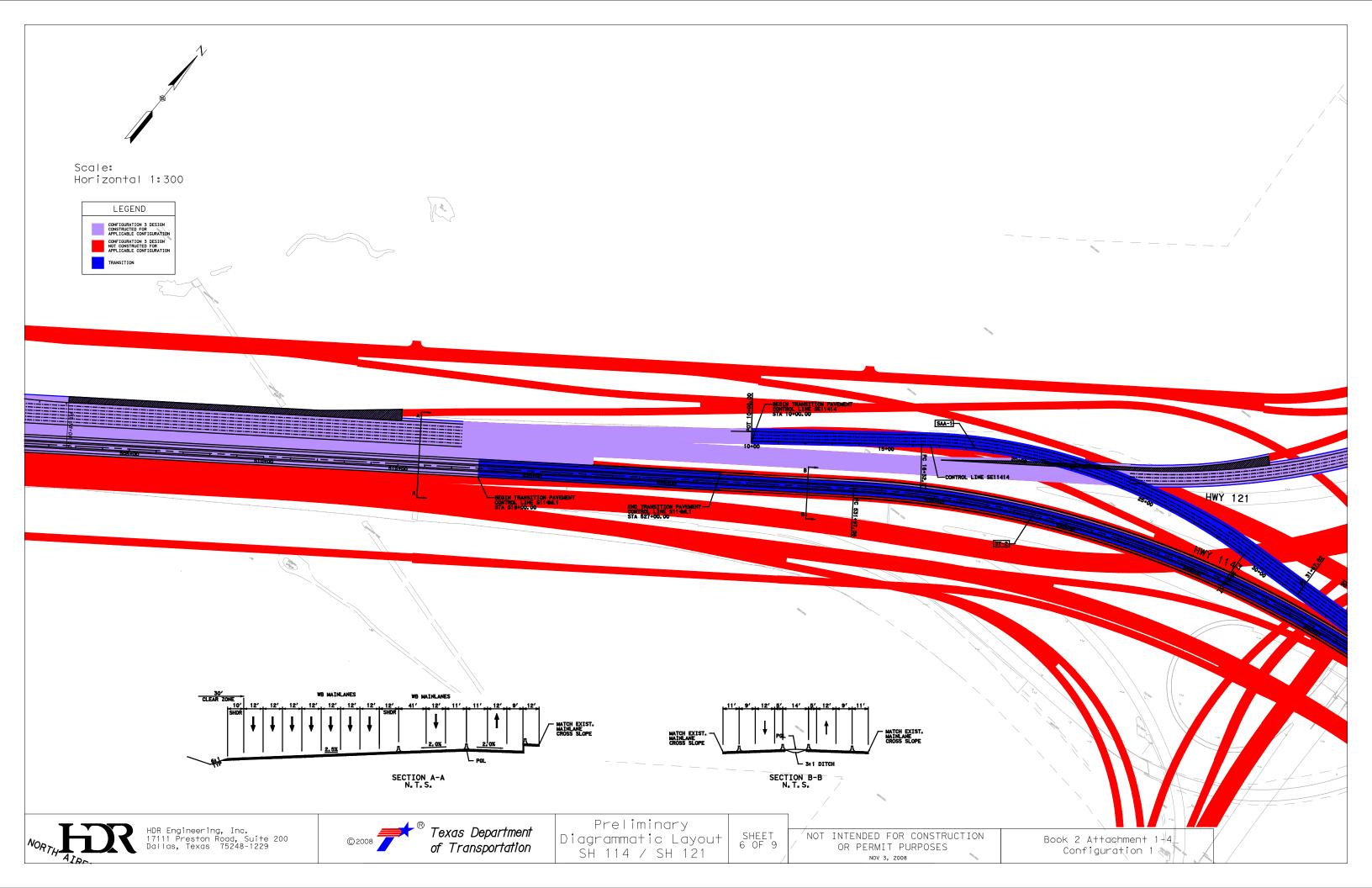


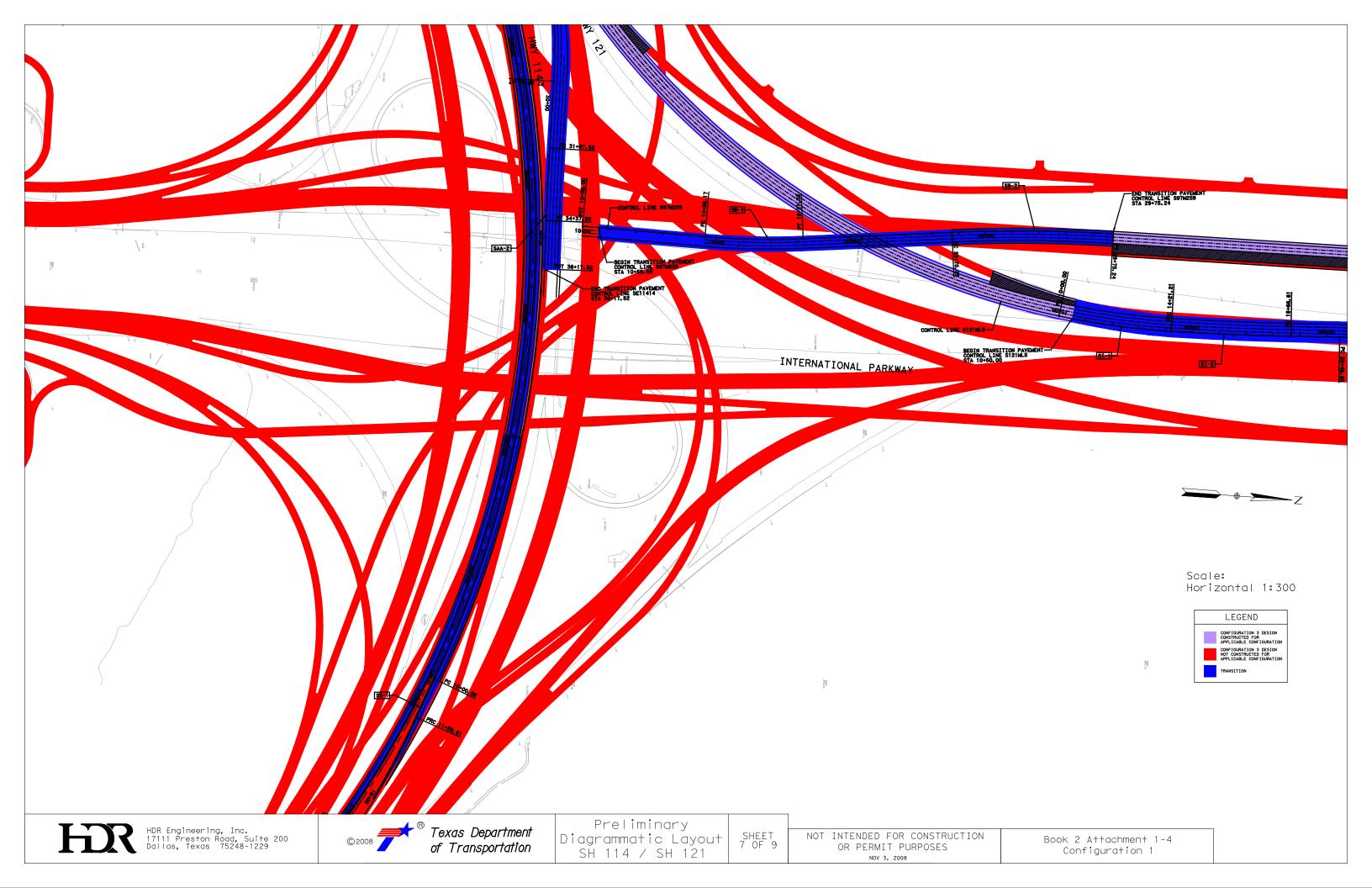


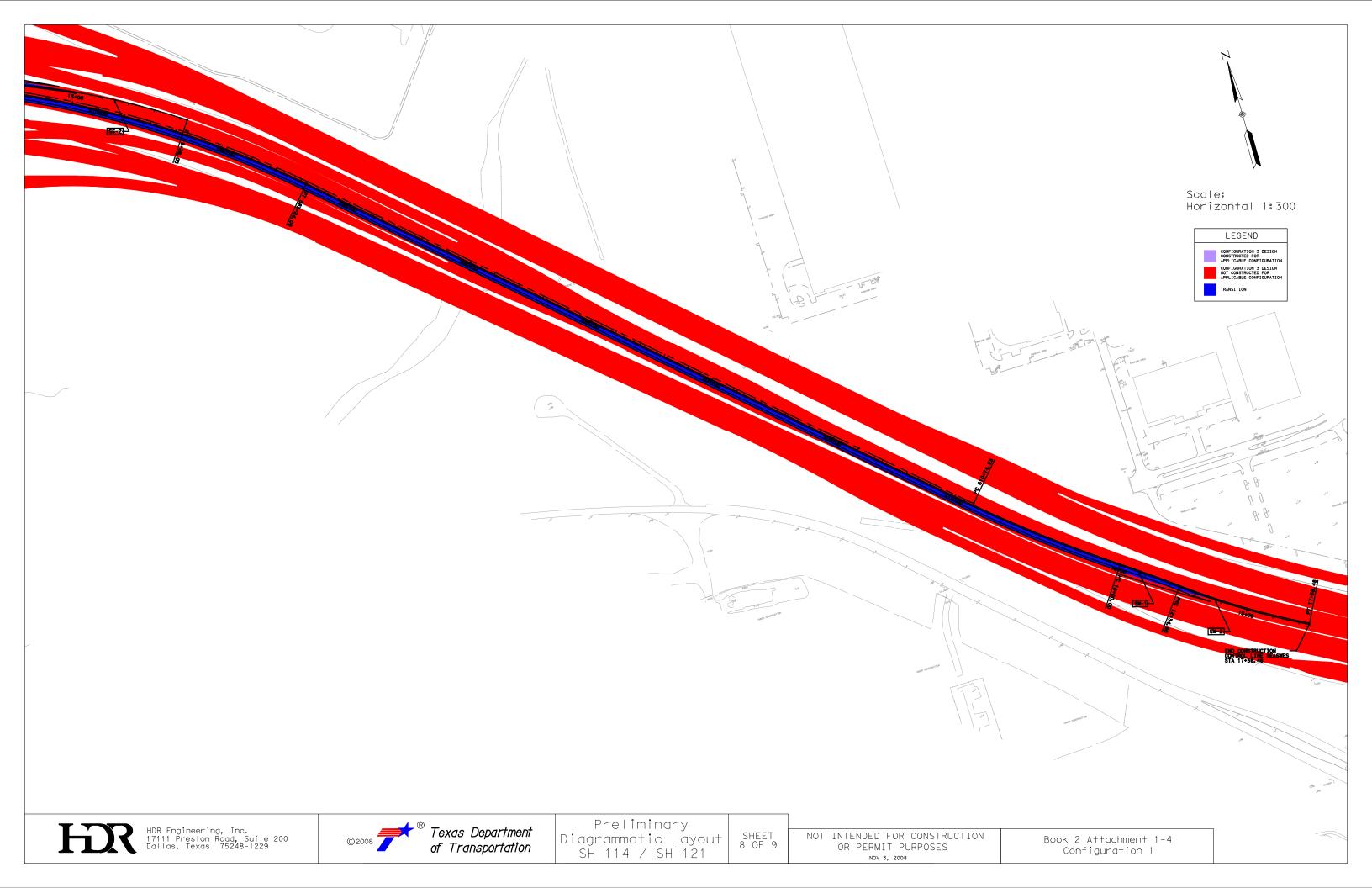


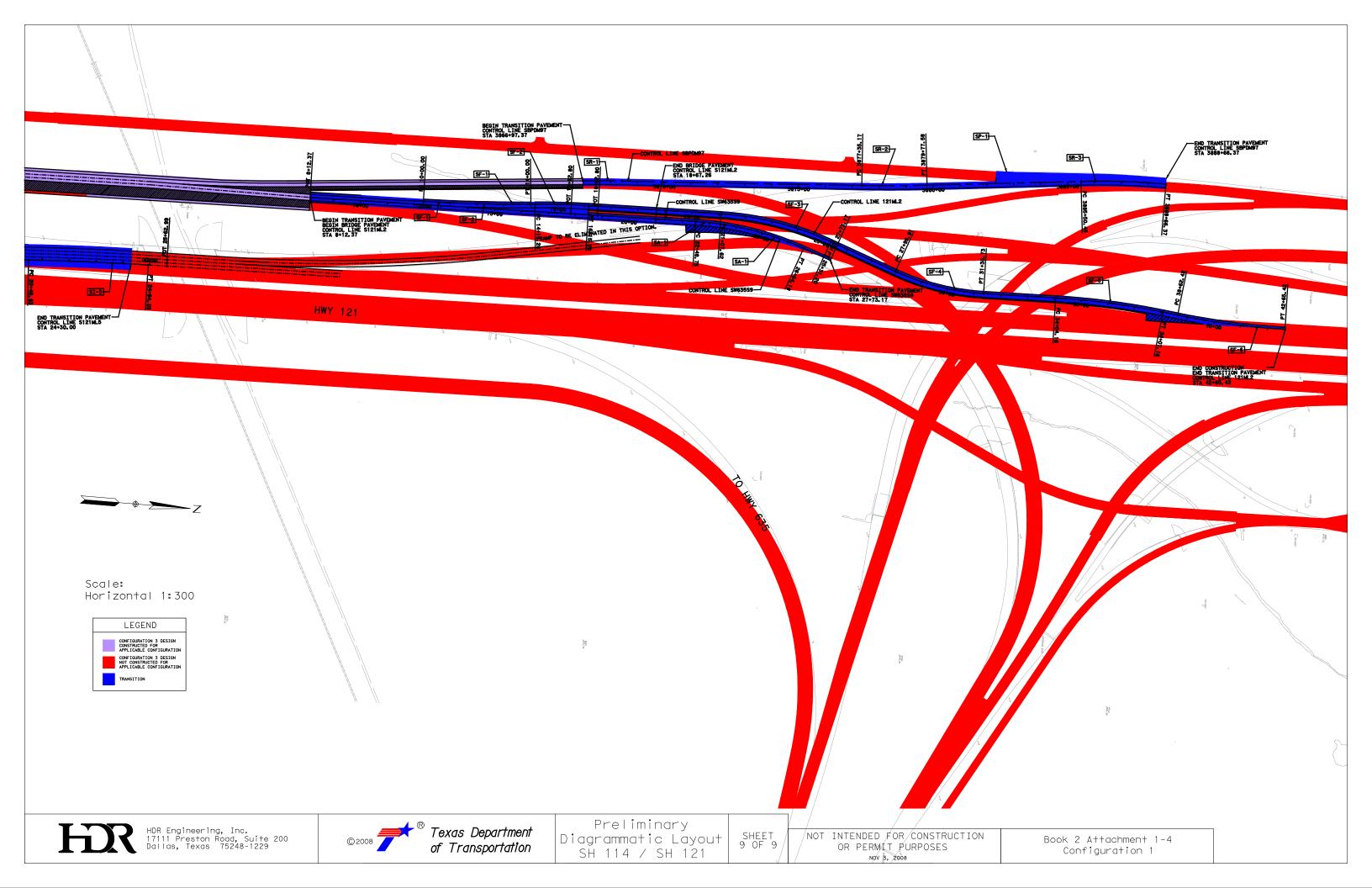












# **Configuration 2**

The Project includes the development of Configuration 2 for DFW Connector, as well as certain design and right of way acquisition services for the Configuration 3 to be constructed in the future.

#### **TxDOT Preliminary Plan Package**

Configuration 3 and the Configuration 2 (Attachment 1-6) have been developed to a limited level and are generally conceptual in nature. Regardless of whether an entirely new plan, or an adaptation of the above referenced preliminary design information, is proposed, Developer is responsible for ensuring that the Configuration 2 and Configuration 3 satisfies the requirements of the CDA Documents. If the above referenced preliminary design information is utilized, Developer shall diligently review, and verify the accuracy and applicability of, the information prior to use. Deviations from, and/or changes to, the preliminary design information that are necessary in order to satisfy the requirements of the CDA Documents are the responsibility of Developer and any related costs shall be included in the Development Price.

## Accommodation of Configuration 3 for Configuration 2

Developer shall provide for a smooth transition from Configuration 2 to Configuration 3. Developer shall endeavor to minimize "throw-away" costs to TxDOT associated with improving Configuration 2 to meet the requirements of the future Configuration 3 Design. The Development Work shall provide for minimal disruption to traffic during the construction phase. Additionally, Developer shall minimize the cost associated with the future Configuration 3 construction to the extent that Developer cost to construct the Configuration 2 is not unreasonably increased as described below.

Elements of the future build-out of Configuration 3 that require the removal of installed permanent pavement or structure shall be built as part of Configuration 2. Elements of future construction that require removal of installed transition pavement or structure will not have to be part of Configuration 2.

The Development Work, as a minimum, shall accommodate the Configuration 3 configuration as described below:

#### Roadway

Configuration 2 shall be designed and constructed coincident with the Configuration 3 horizontal and vertical alignments with the exceptions of the transition roadways leading to/from existing pavements as shown in Attachment 1-6. Developer shall provide for a smooth transition from Configuration 2 to Configuration 3.

Developer shall also have the flexibility to propose revisions to the horizontal alignment and vertical profile of Configuration 2 and/or Configuration 3 Design that do not modify the design criteria contained herein; however, any horizontal or vertical modifications that cause a change in the Schematic ROW will require prior consent from TxDOT. Developer shall revise Configuration 3 as necessary to reflect any changes to horizontal and vertical alignments. Furthermore, any changes to the Schematic ROW, due to horizontal and/or vertical modifications of the alignment, may affect environmental approval, permitting or right of way parcels maps.

Deviations from these criteria may require revisions to, or re-issuance of, the Environmental Approvals and/or Governmental Approvals, which shall be performed solely at the responsibility and cost of Developer. Developer shall not be entitled to any time extension or additional compensation in connection with such revisions or re-issuances.

#### **Drainage**

The drainage systems shall be designed and constructed to accommodate Configuration 3 with minimal throwaway work where Configuration 2 is coincident with Configuration 3 as shown below. Where Configuration 2 is not coincident with Configuration 3, drainage systems shall only be required to meet Configuration 2 requirements.

Geometry, ditch sections and closed drainage systems (i.e. pipes and inlets) shall be designed and constructed to accommodate Configuration 2 or Configuration 3, whichever controls. The physical location of inlet structures shall accommodate Configuration 3. Cross drainage structures (i.e. culverts) shall be designed, sized and constructed to satisfy Configuration 3 requirements. Developer shall construct culverts to the length required to accommodate the Configuration 3

At a minimum, the drainage system must meet the following requirements:

- A) The analysis, design and construction of all drainage structures and appurtenances shall address Configuration 2 and Configuration 3 improvements.
- B) Provide drainage for Configuration 2 and Configuration 3 to protect the roadway, subsurface and highway structures from water damage.
- C) Design and construction of drainage system shall accommodate Configuration 2 and Configuration 3. Consideration shall be given to, but not limited to, pipe, inlet locations, capacity, culvert inlet and outlet structures locations, and junction/manhole structure locations.
- D) Only bridges and bridge-class culverts are shown on Configuration 3. It is Developer's responsibility to determine the location and appropriate size for all other culverts needed to address the Configuration 3.
- E) The water quality measures shall be designed for Configuration 2 and Configuration 3 conditions.
- F) Developer shall perform hydrologic analyses for the design of drainage features for Configuration 2 and Configuration 3.

#### **Paving**

All pavements constructed as part of Configuration 2 shall be designed and constructed to meet all the Technical Provisions. Paving limits shall satisfy the requirements of the Configuration 2.

#### **Bridges & Walls**

Developer shall design and construct bridge structures required for Configuration 2, with the exceptions of structures required solely for transition roadways leading to/from existing pavements as shown in Attachment 1-6, to the total length, width, and span arrangement required for Configuration 3, including spanning future lanes that will be constructed below the structure as a part of the Configuration 3. In locations where the Configuration 2 does not call for the construction of direct-connect structures required for Configuration 3, Developer shall make provisions for future construction without allowance for removal of permanent pavement or structures. Removal of transition pavement or structures during future Configuration 3 construction is permitted. Developer shall, if necessary, construct portions of the Configuration 3 (e.g., footings, ducts, bents, etc.) to ensure future impacts are minimized. At bridges with wrap-around MSE wall supported abutments, the MSE wall shall be designed and constructed to the length required to satisfy Configuration 2 or Configuration 3,

whichever governs. The Developer shall design and construct abutments behind MSE walls to Configuration 3 width, or provide specific accommodations for future widening. For all retaining walls required for construction of roadways within the limits of Configuration 2, with the exceptions of retaining walls required solely for the transition roadways leading to/from existing pavements as shown in Attachment 1-6, construction shall be designed and constructed to meet the requirements of the Configuration 3.

Bridges carrying local roads over Configuration 3 shall, at a minimum, be of a type of construction to accommodate Configuration 3. Each submittal shall also include horizontal and vertical clearance provisions for the Configuration 2 and Configuration 3 build-out improvements. Fencing shall be required along some bridges, pedestrian overpasses and Schematic ROW of Configuration 3.

#### Sign Structures

Where feasible, sign structures shall be located to accommodate the Configuration 3. Sign bridges located within Configuration 2 construction limits, with the exceptions of sign bridges required solely along transition roadways leading to/from existing pavements as shown in Attachment 1-6, shall span the greater of the Configuration 3 or Configuration 2.

Developer shall take into account the Configuration 3 in its design of overhead and cantilever sign supports.

#### Lighting

Lighting shall be designed and constructed to accommodate the Configuration 3 or the Configuration 2, whichever governs. The location of high-mast lighting within Configuration 2 construction limits shall satisfy Configuration 3.

#### Landscaping

Where the Configuration 2 is coincident with the Configuration 3, landscaping shall be designed and constructed to meet Configuration 3 requirements. In locations where Configuration 2 is not coincident with the Configuration 3, Developer shall provide additional landscaping to achieve the desired aesthetic affect.

#### Utilities

Developer shall ensure that the design and construction of all Utility Adjustments are compatible with Configuration 2 and that all such Utilities are compatible with and interface properly with the Project. Developer shall be responsible for verifying that all design plans for Utility Adjustment Work, whether furnished by Developer or by the Utility Owner, are consistent and compatible with Configuration 2.

With written approval by TxDOT, Utilities may remain in their existing location within the Configuration 2 limits if (a) the requirements of the UAP are met, (b) Configuration 2 can be constructed with the utility in its existing location and will not adversely affect the Development Work, and (c) the Utility Owner's standards of practice are met.

Continuous steel casings shall be provided for all water and pressurized sanitary sewer line crossings under center medians and from center of ditch to center of ditch for cut sections, five (5) feet beyond the toe of slope for fill sections, or five (5) feet beyond the face of curb, based on the Configuration 2.

Developer shall be responsible for Protecting in Place (or causing to be Protected in Place by the Utility Owner at Developer's expense) all Utilities impacted by Configuration 2 (including any Utilities remaining in place and any Utilities newly reinstalled as part of the Utility Adjustment Work or the Early Adjustment Work), as necessary to ensure their continued safe operation and structural integrity and in accordance with the requirements described in the Technical Provisions.

Developer is fully responsible for coordinating its efforts with Utility Owners and for addressing requests by Utility Owners that Developer design and/or construct Utility Enhancements. Under no circumstances shall Developer proceed with any Utility Enhancement which is incompatible with Configuration 2 or which cannot be performed within the other constraints of applicable Law, the Governmental Approvals and the CDA Documents, including the Completion Deadlines.

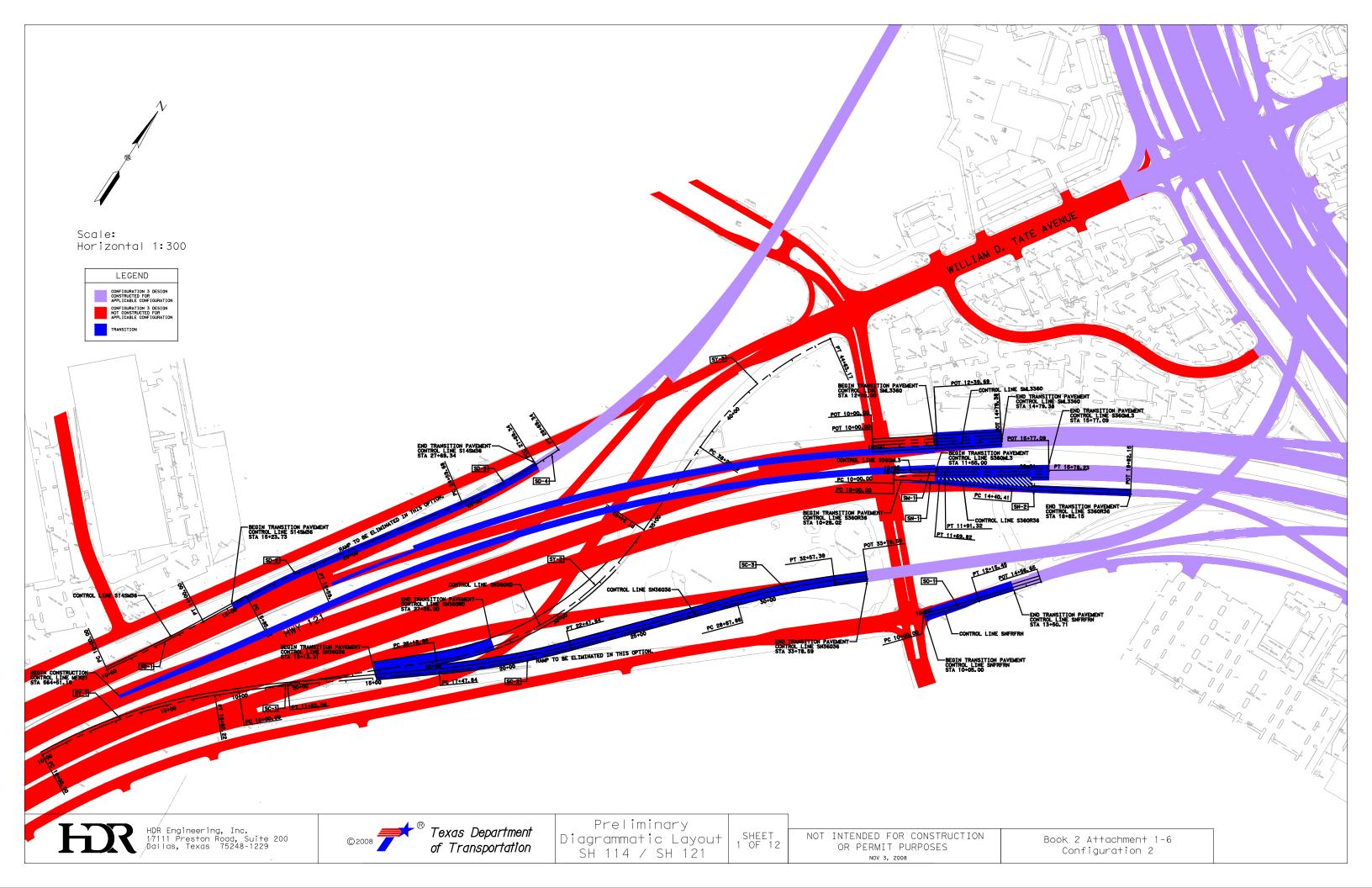
Developer shall be required to provide supporting design information and cost information, satisfactory to TxDOT, to ensure that the above requirements have been met. Developer, to the satisfaction of TxDOT, shall provide documentation supporting the feasibility of Configuration 2. TxDOT shall have no obligation to accept the Configuration 2 for any element of the Development Work until TxDOT has determined that Developer has achieved the above requirements.

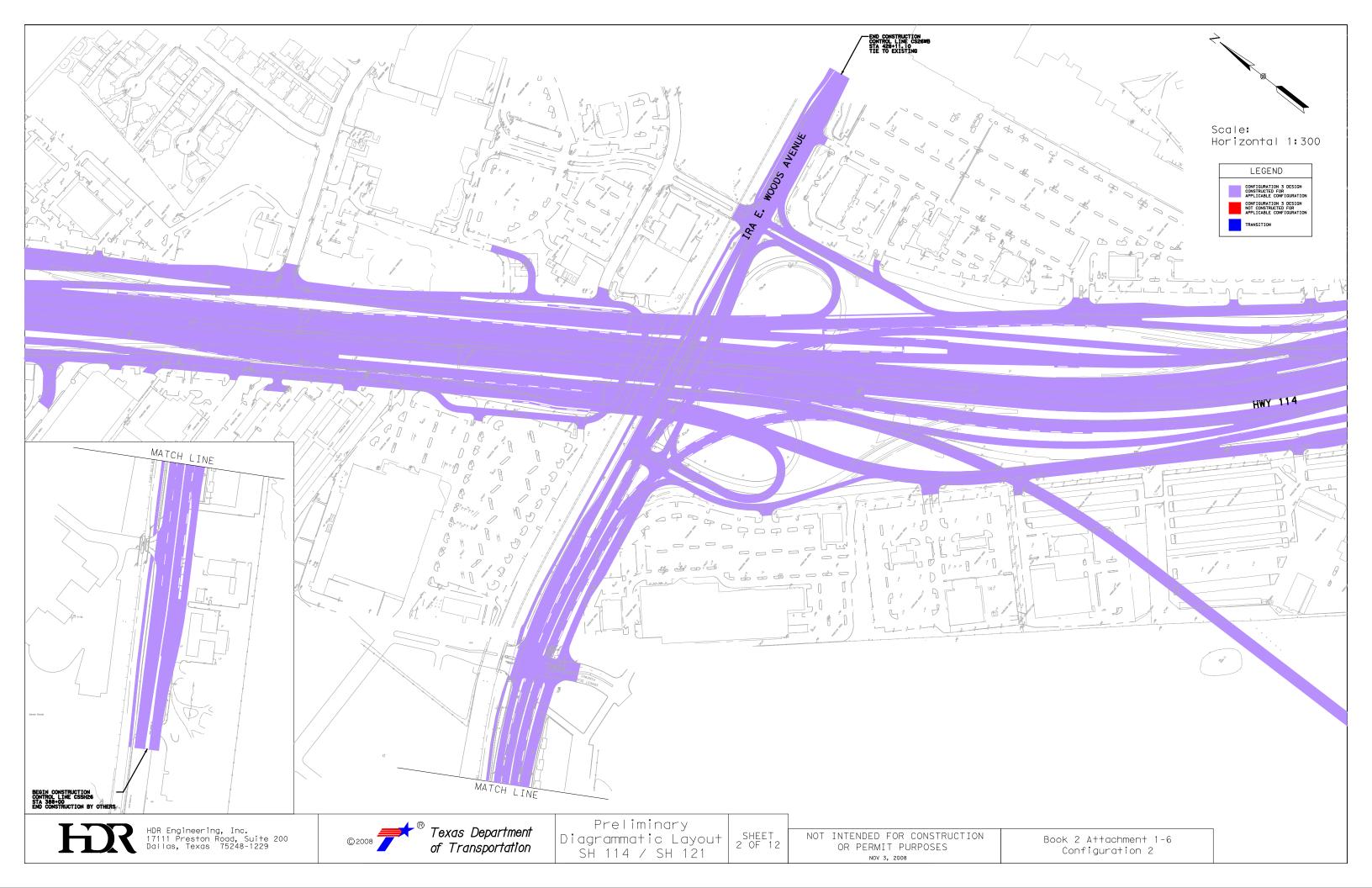
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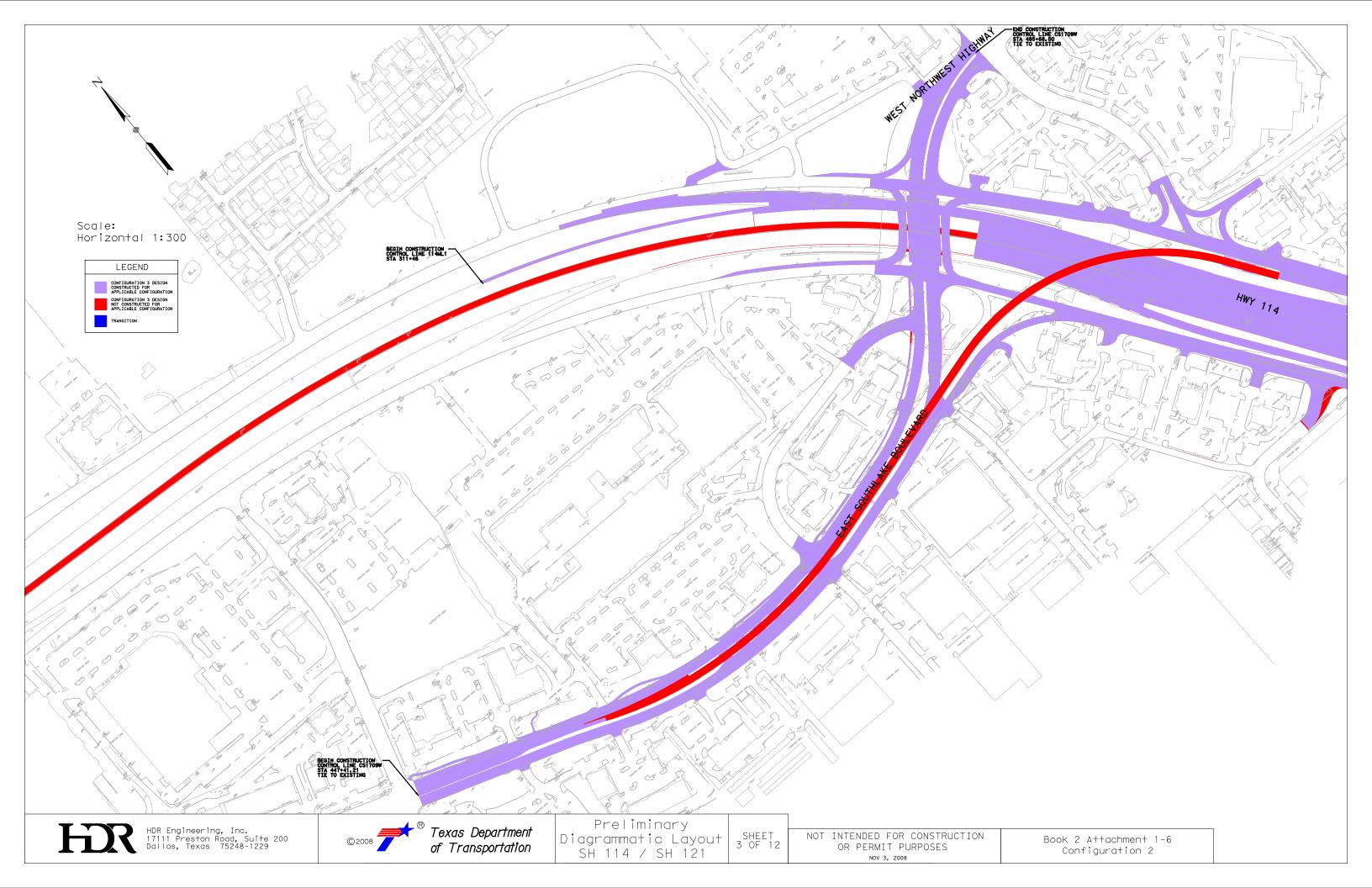
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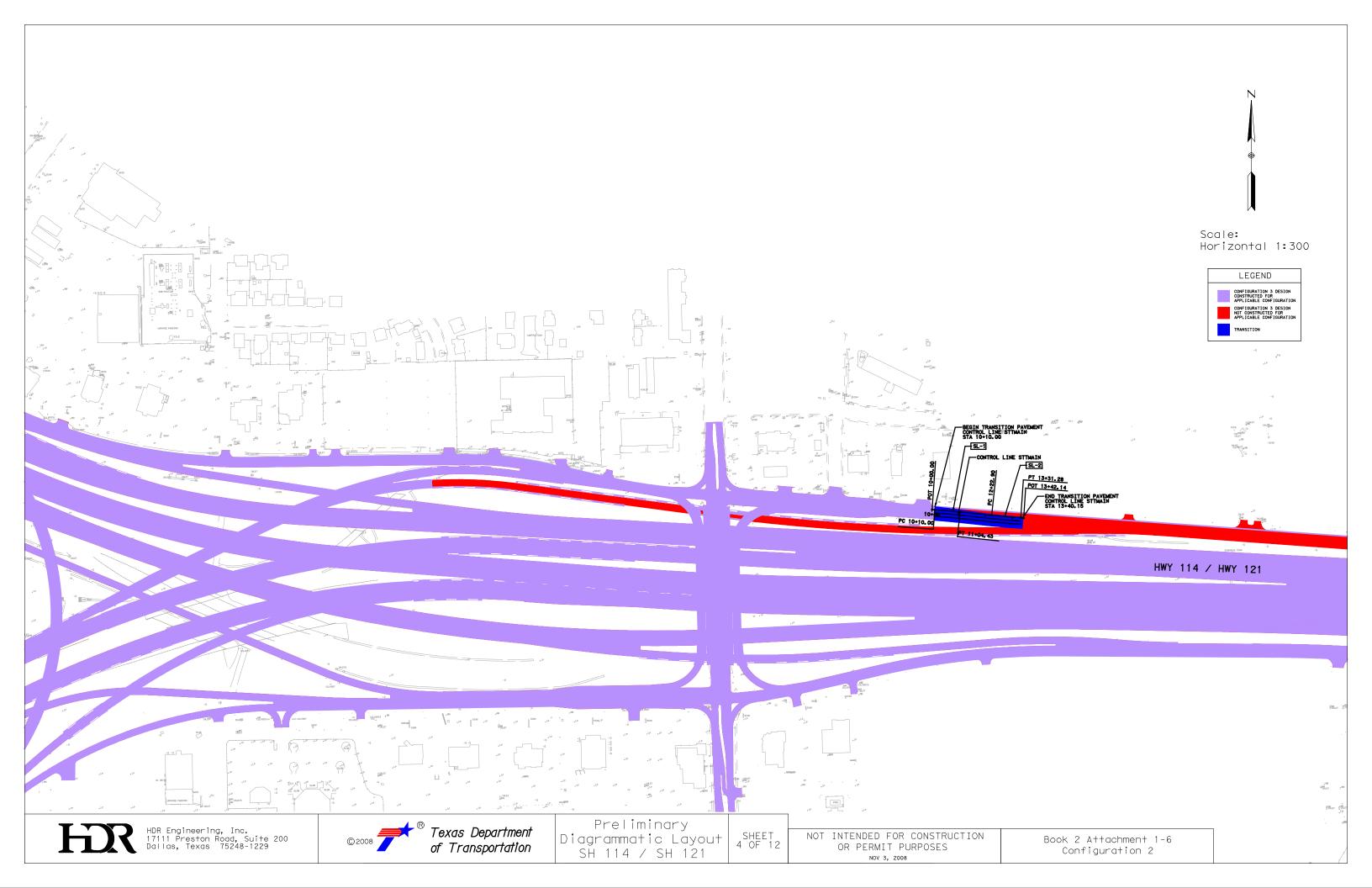
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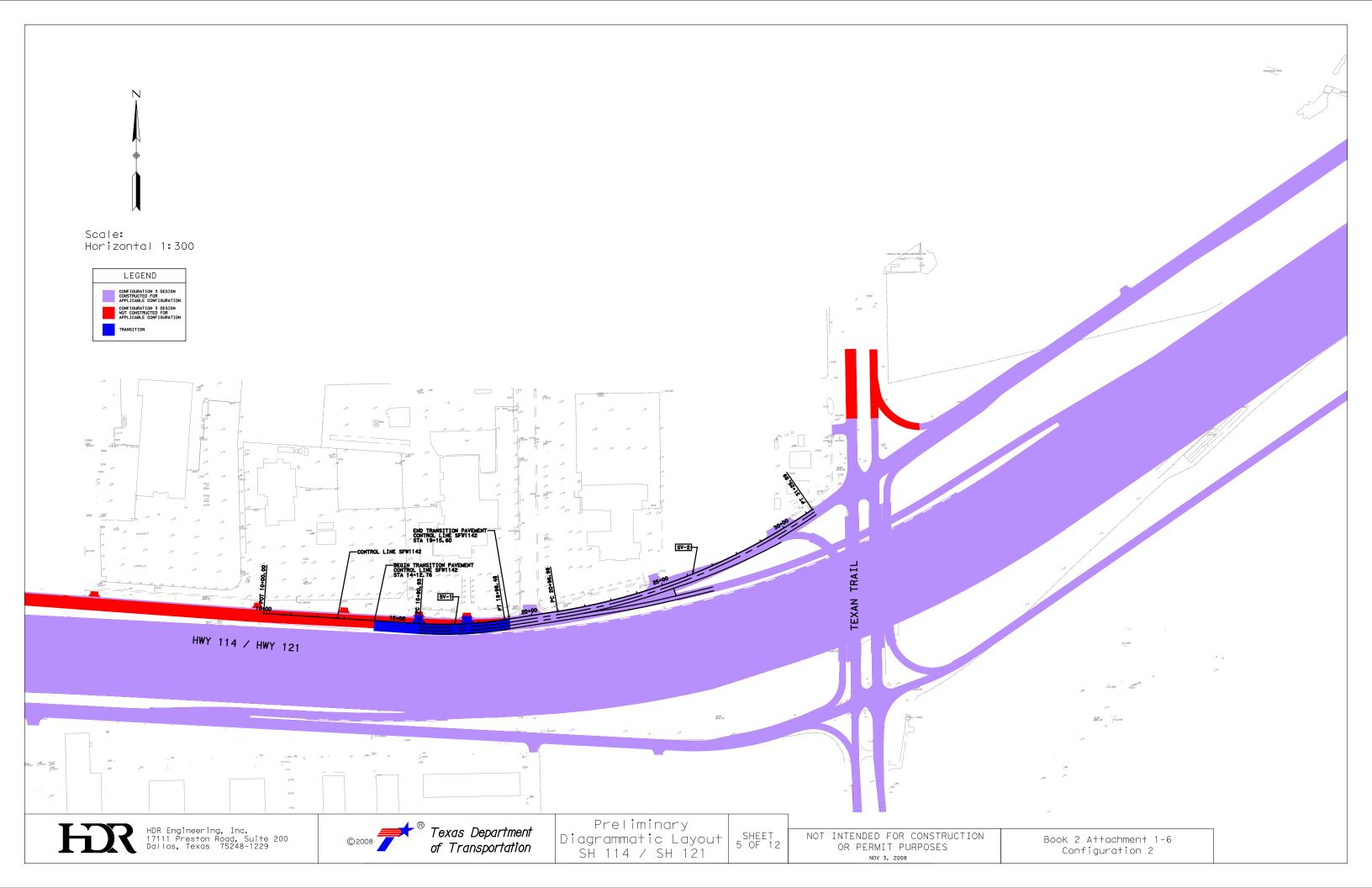
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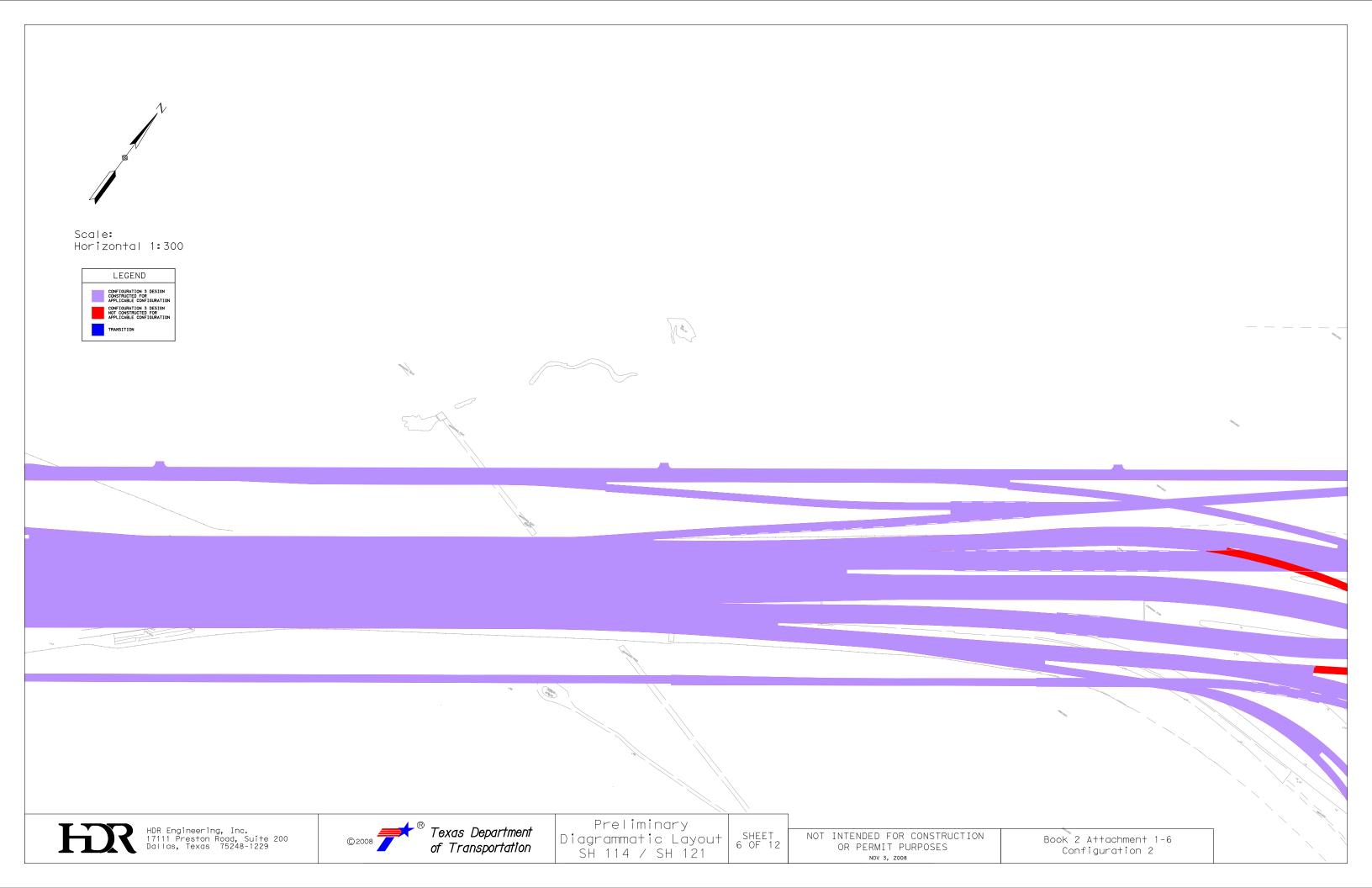


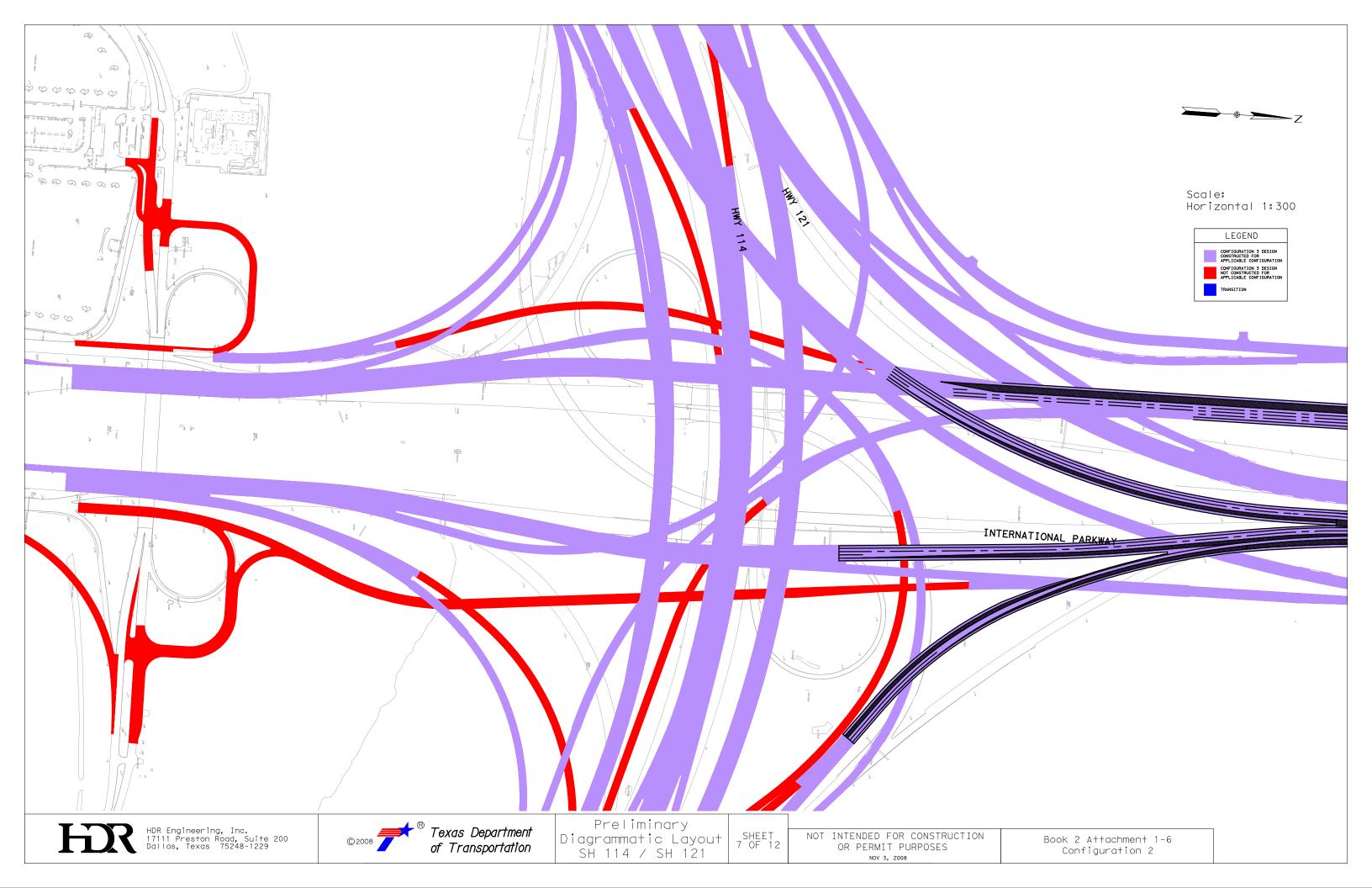


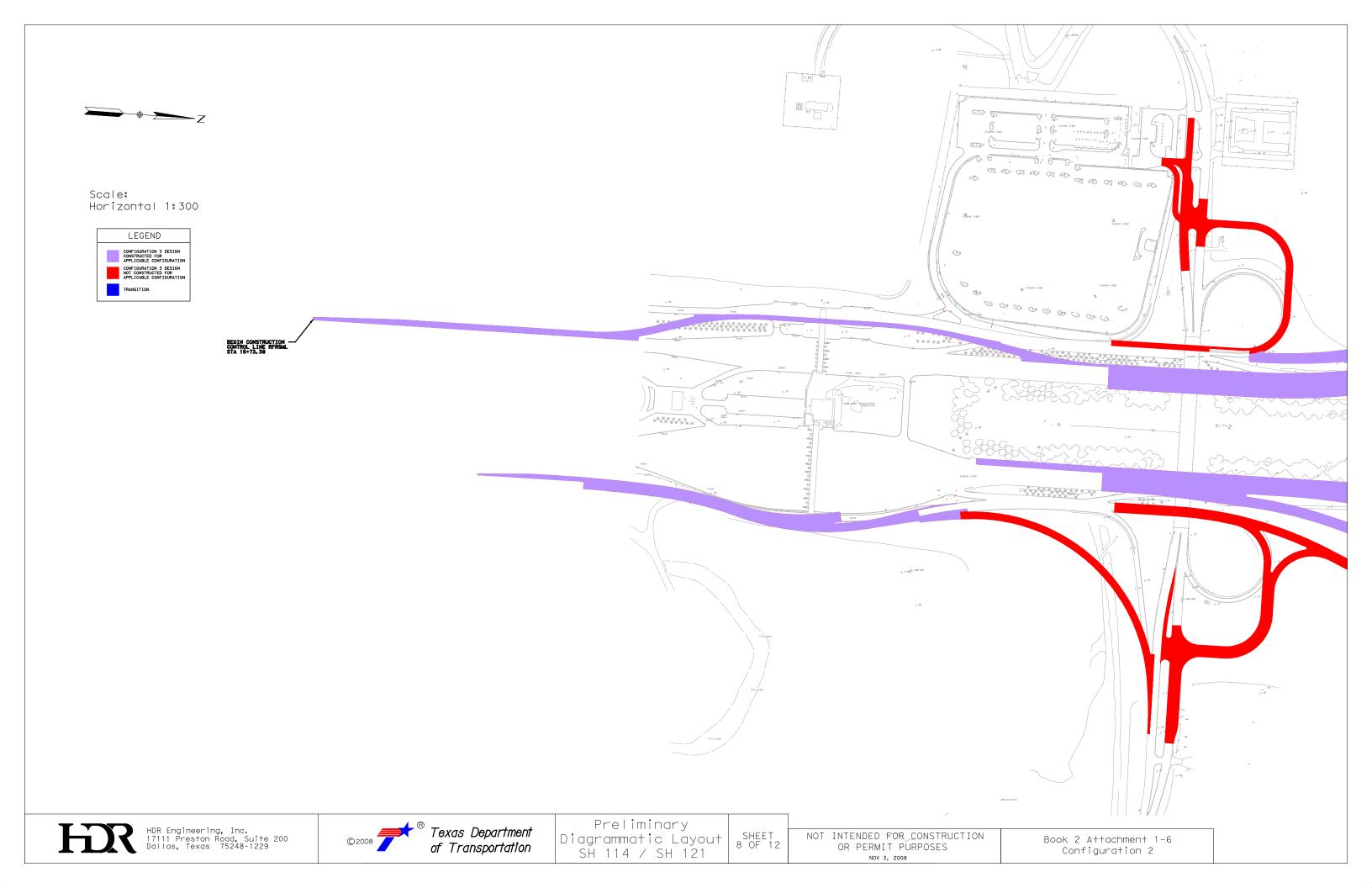


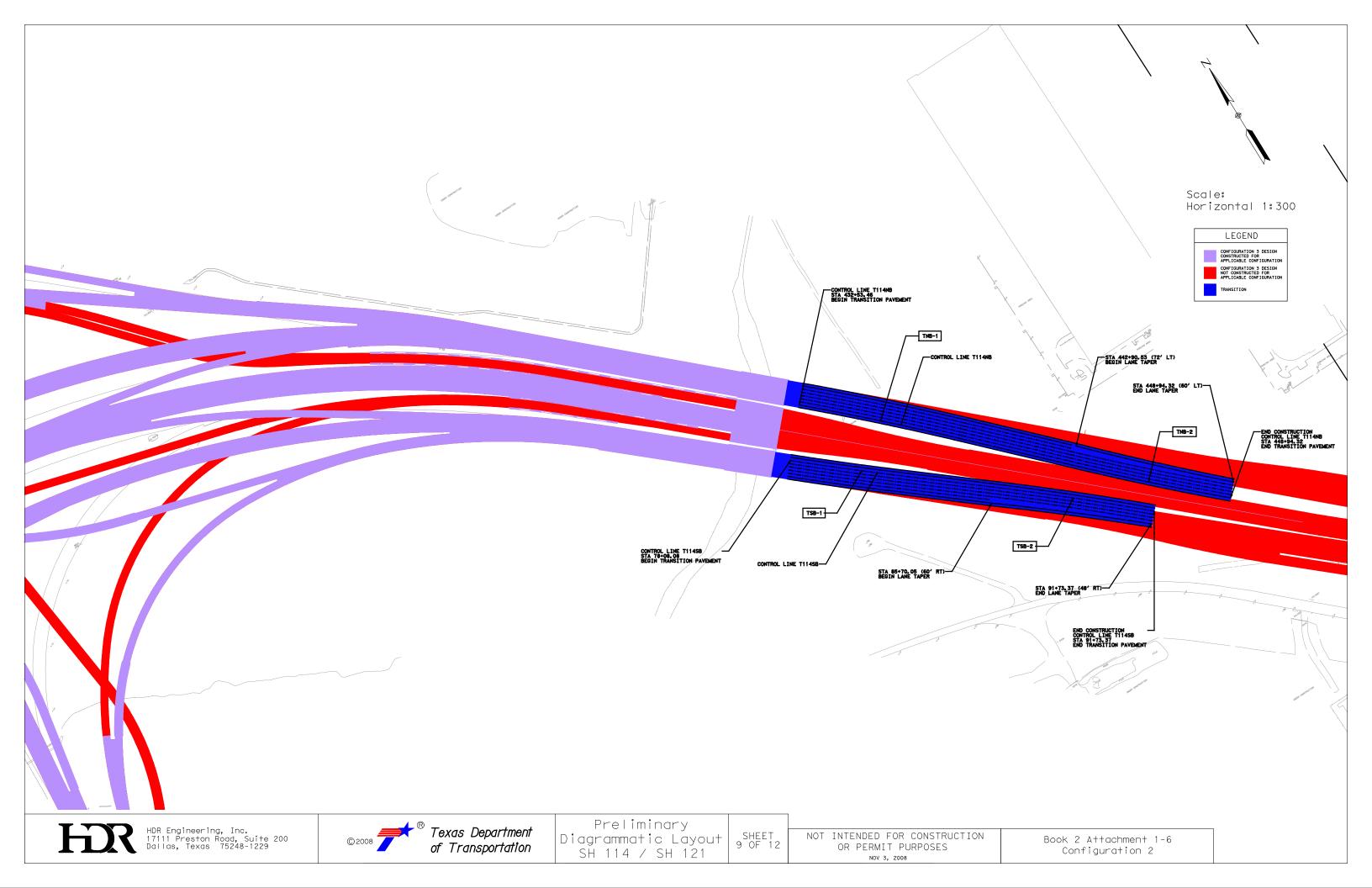


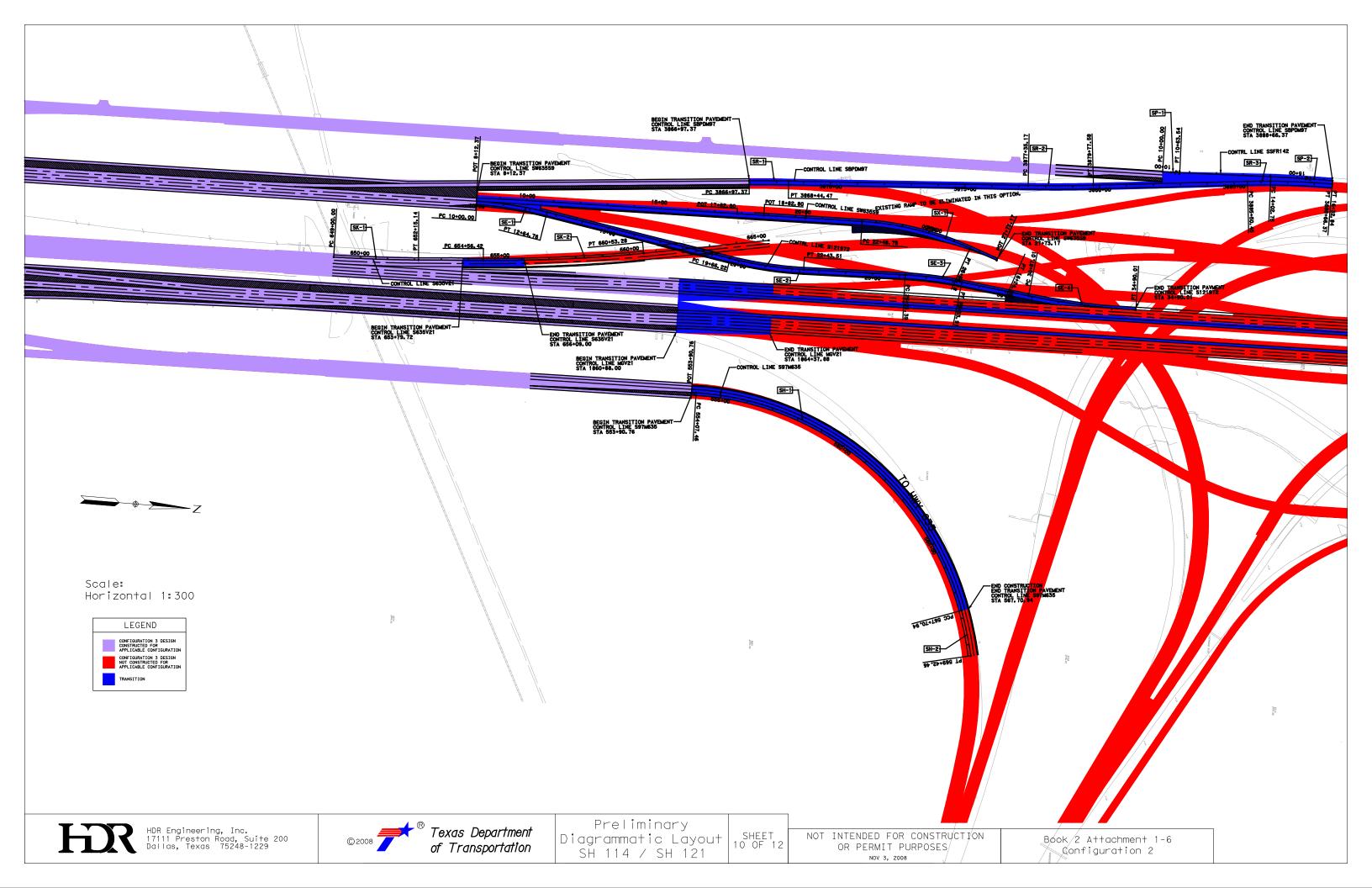


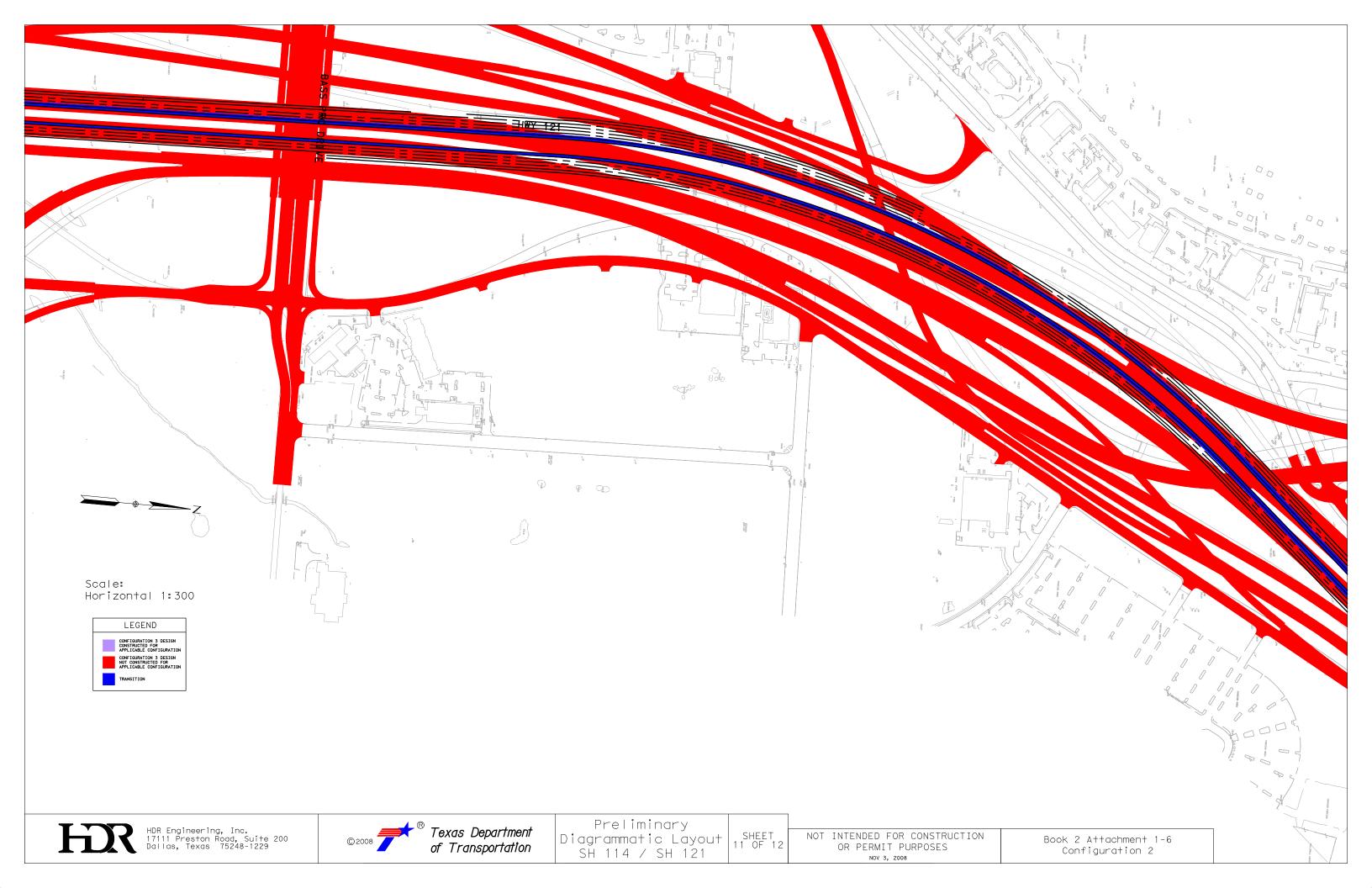


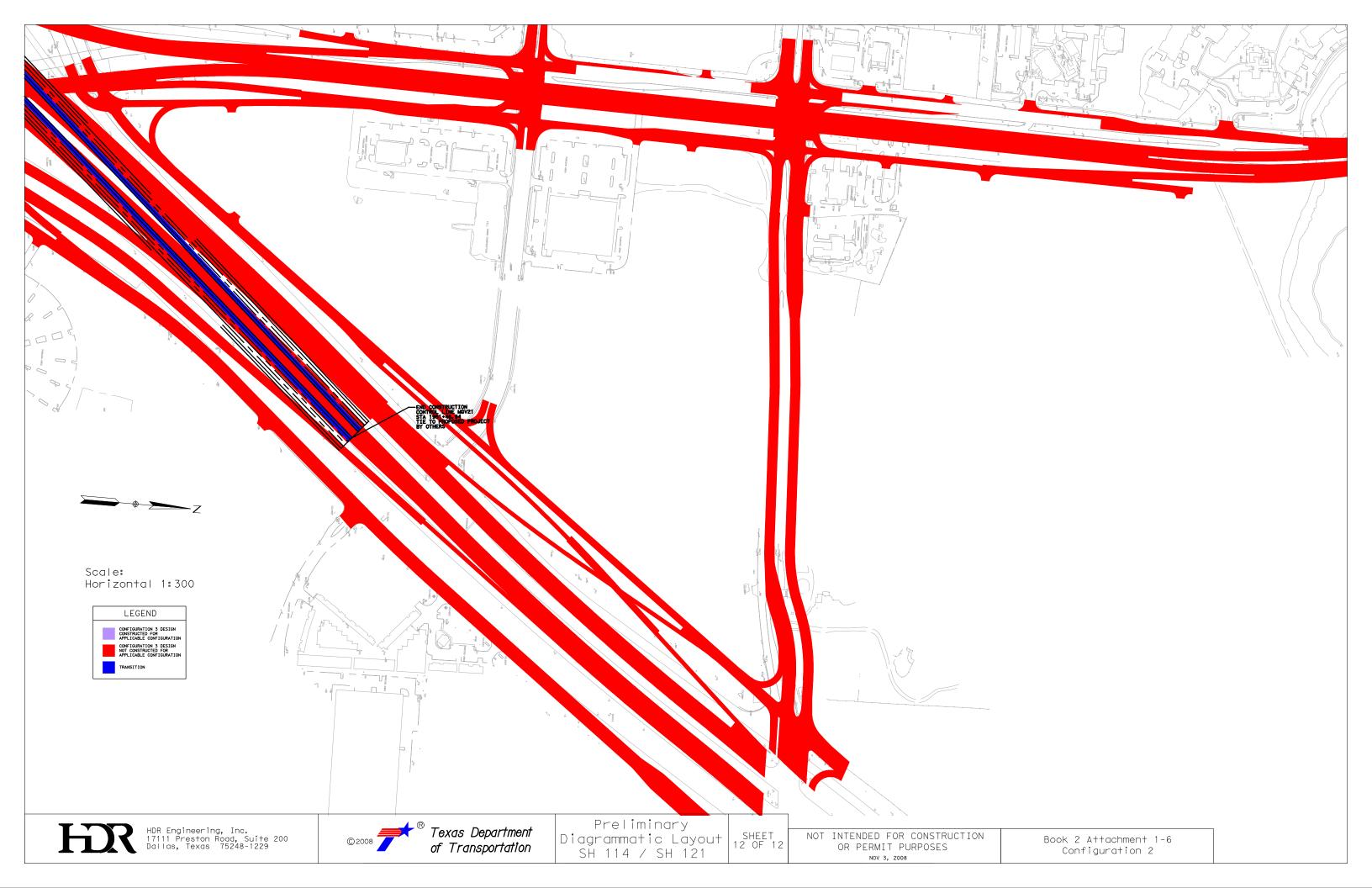












# **Attachment 1-7: Deferred Work Components**

Deferred Work	Description
Component No.	
	Defer (2) 12' Managed Lanes and all shoulders, in each direction from sta 568+26 to sta 591+00. Defer all
1	permanent barrier and associated drainage; existing 9-8x6 MBC will be extended instead of rebuilt.
	Defer 2 lanes on SB International Parkway (IP) Bridge 1-67 over DART. Bridge 1-67 substructure will be built
2	to 6-lane width; superstructure will accommodate 4 lanes.
3	Defer construction of one lane (12') SBIP from sta 1816+00 to sta 1844+65 and from sta 1788+00 tosSta
	1807+10. Bridge 1-48 substructure will be built to 4-lane width; superstructure will accommodate 3 lanes.
4	Defer construction of one lane (12') of exit ramp from SBIP to EB 114 from sta 1817+00 to sta 1844+65.
5	Defer construction of one lane (12') of NBIP from sta 1788+00 to sta 1808+00 and from sta 1819+00 to sta
3	1846+60.
6	Bridge 1-49 substructure will be built to 4-lane width; superstructure will accommodate 3 lanes.
7	Defer construction of one lane (12') of the WB 114 to NB 121 DC from sta 22+00 to sta 38+40.
8	Defer construction of one lane (12') of NB 121 from sta 1835+20 to sta 1846+30.
9	Defer construction of SB 121 from sta 1851+00 to sta 1864+40. Existing conditions will remain in place.
10	Defer the construction of bridge 1-68 leaving existing structure in place.
11	Defer the construction of bridge 1-69 leaving existing structure in place. Defer construction of NB 121 from
11	sta 1851+60 to sta 1865+40. Existing conditions will remain in place.
12	Existing 3-7x5 MBC around sta 1802+50 will be extended instead of rebuilt
,	Defer 2 lanes (24') of WBFR from sta 539+40 to sta 546+65.
	Defer all lanes, shoulders, and driveways of WBFR from sta 547+50 to sta 558+20, existing drainage and
	utilities to remain in place.
13	Defer all lanes, shoulders, and driveways of WBFR from sta 571+45 to sta 577+00, existing drainage and
	utilities to remain in place.
	Defer right lane (12'), shoulder, and driveways of WBFR from sta 574+00 to sta 585+00, existing drainage
	and utilities to remain in place.
14	Defer all lanes, shoulders, and driveways of EBFR from sta 608+80 to sta 622+00 and from sta 623+00 to sta 629+00, existing drainage and utilities to remain in place.
	Defer construction of exit ramp from EB 114 to the DFW International Parkway SBFR from sta 5+96 to sta
15	21+45 and associated drainage.
,	Defer Mustang to NB 121 entrance ramp construction from sta 3+10 to sta 10+46.
16	Defer construction of bridge 1-29 (sta 8+70 to 22+15) and retaining walls 28LT & 28RT.
	Defer construction of 121 NBFR from sta 791+66 to sta 810+18 and associated drainage.
17	Defer construction of one lane and shoulders in each direction of 121 GP from sta 1864+40 to sta 1952+10.
18	Defer E-W turn around bridge 1-43 with associated approaches at Texan Trail.
19	Defer E-W turn around bridge 1-5 with assoiciated approaches at Bus 114E.
20	Defer construction and associated ROW acquisition services of FM1709 from sta 448+00 to sta 469+00.
21	Construct only two lanes of 121 SBFR from sta 627+00 to sta 699+85.
22	Defer the construction of bridge 4-65 and exit ramp to Texan Trail from sta 10+85 to sta 26+60 and
22	pavement from bridge 4-65 to WB 114ML from sta 5+15 to sta 19+20.

# Texas Department of Transportation Technical Provisions

Attachment 2.1 – Project Management Plan Contents

# The Project Management Plan -Contents and Schedule for provision of the component parts

#### Legend

A= Submitted by Developer within 30 days of NTP 1 and approved by TxDOT prior to Commencement of Design B= Submitted by Developer within 90Approved by TxDOT at prior to Commencement of Construction

Note - in this PMP Contents the term "Contractor" shall be taken to mean "Subcontractor"

Part	Ref	Section	Contents	Required by
. Project	Administration			• .
		Organization	Organizational diagram	Α
		Personnel	Names and contact details, titles, and job roles	A
		Contractors	Contracting Plan	A
		Schedule	Baseline Schedule in accordance with Section 2	A
		Quality Control	Procedures to establish and encourage continuous improvement	A
		Audit	Procedures to facilitate review and audit by TxDOT	A
			Auditing and management review of Developer's own activities under the PMP	A
			Auditing and management review of Contractor's activities and management procedures	A
		PMP Update	Procedures for preparation of amendments and submission of amendments to any part of the PMP	A
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use	A
			Document management procedures in compliance with the Technical Provisions Section 2	А

Part R	ef	Section	Contents	Required by
2. Quality Manag	ement			
A. Design Quality	/ Program			
	<u> </u>	Organization	Developer's main contractual arrangements	Α
			Organizational structure covering the activities to be performed in accordance with the CDA Documents	Α
	•	Personnel	Resource plan for the Developer and its subcontractors	Α
·			Arrangements for coordinating and managing staff interaction with TxDOT and its consultants including collocation of Key Personnel and description of approach to coordinating work of off-site personnel	Α
			Names and contact details, titles, job roles and specific experience required for the Key Personnel and for other principal personnel during design	Α .
·			Names and contact details, titles, job roles of principal personnel for Contractors and any third party with which Developer will coordinate activities	А
		Offices and equipment	Description of the necessary offices and office equipment to be provided by Developer during design	А
		Contractors	Overall control procedures for Contractors, including consultants and subconsultants	Α
			Responsibility of Contractors and affiliates	Α
			Steps taken to ensure Contractors and Suppliers meet the obligations imposed by their respective Contracts	А
		Interfaces	Interfacing between the Developer, Contractors and independent certifiers during design including interfaces between the structural design auditor, the safety auditor, and any quality reviewer	A
			Coordination with Utility Owners	Α
		Environmental	Control of the interface between environmental requirements (including landscaping) and the design of the Project	Α

Part	Ref	Section	Contents	Required by
2. Quality I	Management			
A. Profess	ional Services Qua	ality Program (con't.)		
·		Procedures	Procedures describing how the principal activities will be performed during the design stage: to include geotechnical site investigation, surveys and mapping, environmental management, safety audit, structural audit, and checking	А
		Quality Control/Quality Assurance	Quality control and quality assurance procedures including a resource table for monitoring and auditing all design services, design review and certification, verification of plans	А
			Procedures for environmental compliance	Α
			Procedures to establish Developer's hold points in design process where checking and review will take place	А
			Procedures to ensure accuracy, completion, and quality in submittals to TxDOT and Governmental Entities	Α
•			Procedures to establish and encourage continuous improvement	Α
		Audit	Name of Developer's representative(s) with defined authority for establishing, maintaining, auditing and reporting on the PMP	A
	·		Name, title, roles and responsibilities of supporting quality management staff reporting to the person with defined authority	A
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use	A
			Document management procedures in compliance with the Technical Provisions Section 2	A
			Identify environmental documentation and reporting requirements, including Environmental Permits, Issues and Commitments (EPIC) sheets	A
P Constr	uction Quality Pro	gram (CQP)		
. Consti	action duality (10	Organization	Developer's main contractual arrangements	A
			Organizational structure covering the activities to be performed in accordance with the CDA Documents	A
		Personnel	Resource plan for the Developer and its Contractors	В

Part	Ref	Section	Contents	Required by
2. Quality M	lanagement			
B. Construc	tion Quality Pro	gram (CQP) (con't.)		
	•		Arrangements for coordinating and managing staff interaction with TxDOT and its consultants including collocation of Key Personnel and description of approach to coordinating work of off-site personnel	В
			Names and contact details, titles, job roles and specific experience required for the Key Personnel as related to construction	A
			Names and contact details, titles, job roles of principal personnel for Contractors and any third party with which Developer will coordinate his activities	В
			Procedures for implementation of Environmental Protection Training Program for all employees in accordance with Section 4	В
		Offices and equipment	Description of the necessary offices and office equipment to be provided by Developer during construction	A
		Contractors	Overall control procedures for Contractors, including consultants and subconsultants	В
		ļ	Responsibility of Contractors and affiliates	В
			Steps taken to ensure Contractors and Suppliers meet the obligations imposed by their respective Contracts	В
			Procedures for implementation of Environmental Protection Training Program for employees of subcontractors in accordance with Section 4	В
		Interfaces	Interfacing between the Developer, Contractors and independent certifiers during construction, including any testing contractor	A
		Procedures	List of Project specific construction procedures	В
		1 100000103	Construction detailed procedure for each major activity whether directly undertaken or subcontracted to include pavement, structures, drainage, communications	В
			Construction Traffic Management Plan	В
		Quality Control/Quality Assurance	Construction Monitoring Plan	В

Part	Ref	Section	Contents	Required by
. Quality Mar	agement			
		am (CQP) (con't.)		
			Construction Monitoring Program (Environmental)	В
			Procedures for environmental compliance	•
			Control, identification and traceability of materials, including any material or samples temporarily or otherwise removed from site for testing or other reasons.	В
			Examinations and audit of Construction Work, review of examination and audit, issue of certificates	В
			Observation and reporting of all tests in compliance with Section 2	В
			Procedures for tests and inspections for the purpose of the Contractor certifying that prior to burying, each part of the Works is complete and conforms to the CDA Documents.	В
			Quality control and quality acceptance procedures including a resource table for monitoring and auditing during construction any work and testing undertaken by Contractors and Suppliers both on and off Site	В
		·	Procedures to establish Developer's hold points in construction	В
			Procedures to ensure accuracy, completion, and quality in submittals to TxDOT and Governmental Entities	В
			Procedures to establish and encourage continuous improvement	Α
·		Audit	Inspection and test plans that identify the proforma and/or databases to be	В
• •			transmitting acceptance testing and inspection reports to TxDOT  Name of Developer's representative with defined authority for establishing, maintaining, auditing and reporting on the PMP	A
			Name, title, roles and responsibilities of supporting quality management staff reporting to the person with defined authority	В
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use.	В

Part	Ref	Section	Contents	Required by
2. Quality M	lanagement			
2B. Construc	tion Quality Pro	ogram (CQP) (con't.)		
			Document management procedures in compliance with the Technical Provisions Section 2	A

Part	Ref	Section	Contents	Required by
3. Environmen	ital Manageme	ent		
O		Organization	Developer's main contractual arrangements	Α
			Organizational structure covering the activities to be performed in accordance with the CDA Documents	Α
			Environmental Contact Tree	Α
		Personnel	Resource plan for the Developer and its Contractors	В
·			Arrangements for coordinating and managing staff interaction with TxDOT and its consultants, including collocation of Key Personnel and description of approach to coordinating work of off-site personnel	Α
			Names and contact details, titles, job roles and specific experience required for Key Personnel and for other environmental personnel	А
			Implement Environmental Protection Training Program for all employees in accordance with Section 4	Α
		Contractors	Overall control procedures for Contractors, including consultants and subconsultants	A
			Responsibility of Contractors and affiliates	Α
		Environmental	Comprehensive Environmental Protection Program (CEPP)	В
		Quality Control and Quality Acceptance	Procedures to ensure accuracy, completion, and quality in submittals to TxDOT and Governmental Entities	A
		Quality Acceptance	Procedures to establish and encourage continuous improvement	Α
			Procedures for environmental compliance	A
		Audit	Name, title, roles and responsibilities of supporting quality management staff reporting to the person with defined authority	В
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use	A
			Identify environmental documentation and reporting requirements	Α

Part	Ref	Section	Contents	Required by
4. Public Infor	mation and Co	ommunications		
		Organization	Developer's main contractual arrangements	Α
•			Organizational structure covering the activities to be performed in accordance with the CDA Documents	Α
		Personnel	Resource plan for the Developer and its Contractors	Α
			Arrangements for coordinating and managing staff interaction with TxDOT and its consultants, including collocation of Key Personnel and description of approach to coordinating work of off-site personnel	Α
			Names and contact details, titles, job roles and specific experience required for Key Personnel and for other principal personnel	Α
			Names and contact details, titles, job roles of principal personnel for Contractors and any third party with which Developer will coordinate his activities	Ä
		Offices and equipment	Description of the necessary offices and office equipment to be provided by Developer during design	Α
		Contractors	Overall control procedures for Contractors, including consultants and subconsultants	Á
			Responsibility of Contractors and affiliates	A
			Steps taken to ensure Contractors and Suppliers meet the obligations imposed by their respective Contracts	Α
			Procedures for implementation of Environmental Protection Training Program for employees of Contractors	A
		Interfaces	Procedures for liaison with the public, the media and other Customer Groups in accordance with Section 3 and the press media policy of TxDOT	A
			Procedures to coordinate with Project stakeholders such as municipalities, counties, MPOs, RMAs and other Customer Groups	A
		Procedures	Procedures describing how the principal activities will be performed	A

Part	Ref	Section	Contents	Required by
4. Public I	Information and	Communications (con't)		
		Quality Control	Quality control procedures including a resource table for monitoring and auditing all public information and communication services	A
			Procedures to ensure accuracy, completion, and quality in submittals to TxDOT, Governmental Entities and Customer Groups	A
			Procedures to establish and encourage continuous improvement	Α
		Audit	Name of Developer's representative with defined authority for establishing, maintaining, auditing and reporting on the PMP	A
			Name, title, roles and responsibilities of supporting quality management staff reporting to the person with defined authority	A
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use	A
	·		Document management procedures in compliance with the Technical Provisions Section 2	Α
			Identify environmental documentation and reporting requirements	A

Part	Ref	Section	Contents	Required by
5. Health & Safety				
			Policies, plans, training programs, Work Site controls, and Incident response plans to ensure the health and safety of personnel involved in the Project and the general public affected by the Project	A
		-	Procedures for immediately notifying TxDOT of all incidents arising out of or in connection with the performance of the Work	А

Part	Ref	Section	Contents	Required by
6. Commi	unications Plan			
			The manner in which the Developer's organization will respond to unexpected requests for information, communicate changes or revisions to necessary Developer personnel, and notify affected stakeholders before and after changes are made	A
			Processes and procedures for communication of Project information between the Developer's organization and TxDOT.	A

Part	Re	ef	Section	Contents	Required by
ROW AC	nuisiti	on Managem	nent		
. NOW AC	quisiti	On managen	Organization	Developer's main contractual arrangements	Α
				Organizational structure covering the activities to be performed in accordance with the CDA Documents	Α
			Personnel	Resource plan for the Developer and its Contractors	A
	-			Arrangements for coordinating and managing staff interaction with TxDOT and its consultants, including collocation of Key Personnel and description of approach to coordinating work of off-site personnel	A
				Names and contact details, titles, job roles and specific experience required for the Key Personnel as related to ROW acquisition and utility adjustment activities.	A
				Names and contact details, titles, job roles of principal personnel for Contractors and any third party with which Developer will coordinate activities	A
			Contractors	Overall control procedures for Contractors, including consultants and subconsultants	A
				Responsibility of Contractors and affiliates	Α
				Steps taken to ensure Contractors and Suppliers meet the obligations imposed by their respective Contracts	Α
				Procedures for implementation of Environmental Protection Training Program for employees of Contractors in accordance with Section 4	A
			Interfaces	Interfacing between the Developer, Contractors and independent certifiers during Project ROW acquisition including the interfaces between the Project ROW acquisition, Project design, and any quality reviewer	A
			·	Coordination with Utility Owners	Α
				Utility Adjustment Plan	В
			M.L. and an	Relocation Plan (Right of Way)	В
			Relocation Environmental	Control of the interface between environmental requirements (including Hazardous Materials and demolition) and Project ROW acquisition activities	A

Part	Ref	Section	Contents	Required by
. ROW A	cauisition Mana	gement (con't)		
			Applicable procedures for the Hazardous Materials Management Plan in accordance with Section 4	A
			Applicable procedures to implement the Pollution Prevention Plan (P2 Plan), recycling program and waste management in accordance with Section 4	A
		·	Address Project Environmental Mitigation Plan (PEMP) requirements	А
		Schedule Procedures	Logic linked ROW acquisition activities on a parcel-by-parcel basis as part of the Project Baseline Schedule, including adequate time periods for TxDOT review and condemnation activities in accordance with Section 7	A
			Procedures describing how the principal activities will be performed during the Project ROW acquisition, whether directly undertaken or subcontracted	A
		Quality Control	Procedures to ensure accuracy, completion, and quality in submittals to TxDOT and Governmental Entities	Ä
			Procedures to establish and encourage continuous improvement	A
			Quality control procedures and quality review standards for Project ROW acquisition in accordance with Section 7	A
			Procedures for environmental compliance	Α
	·	Audit	Name, title, roles and responsibilities of supporting quality management staff reporting to the person with defined authority	A
		Document Management	The manner in which records will be maintained in compliance with the Technical Provisions, including any specific systems Developer will use	А
			Document management procedures in compliance with the Technical Provisions Section 2	A
			Identify environmental documentation and reporting requirements	Α

Part	Ref	Section	Contents	Required by
8. Cost Manag	ement			,
	2.10		Procedures for cost management and reporting as required by Stakeholders involved in the Project	A

#### **I2MS Test Form Fields**

#### **Purpose**

The purpose of this document is to provide information on the tables and fields within I2MS.

#### **Material Test Forms**

Material Test Forms are forms used to run tests for a sample. A test form contains a header and footer information which all forms have in common. The differentiating factor of each test form is in the body. Each body of a test form contains fields and

#### Header Fields

The header information is the metadata of the forms. The header information is vital for searching and analyzing records. All the test forms have similar header information.

Table Name	HEADER_VAL	UE_OVT		Maximum Rows	1	Data
Field Description	Field Name	Data Type 16	Length	Values	All Required	Transfer
Course / Lift	course_lift	nvarchar	250		No	N
Direction	direction	nvarchar	250	direction	No	N
Distance from Centerline	dist_from_cl	nvarchar	250		No	N
Feature	feature	nvarchar	250	see validators	Yes	Y
Grade	grade	nvarchar	100	see validators	No	Y
Material	material	nvarchar	100	see validators	Yes	Υ
Miscellaneous	misc	nvarchar	250		No	N
Report Type	report_type	nvarchar	250	{Original-Complete, Version-Complete}	No	Υ
Roadway	roadway	nvarchar	250	{description}	No	N
Sampled Date	sampled_date	datetime	8	MM/DD/YYYY	Yes	Υ
Sample ID	sample_id	nvarchar	1.3	ABCYYMMDDHHMM	Yes	Υ
Sample Location	sample_location	nvarchar	250		No	N
Sample Type	sample_type	nvaṛchar	100	{Random-Independent, Random-Split, Fixed- Independent, Fixed Split, Internal}	Yes	Y
Sampled By	sampled_by	nvarchar	250	{full_name}	Yes	Υ
Section	section	nvarchar	100	see validators	No	N
Spec Item	spec_item	nvarchar	100	see validators	Yes	Υ
Spec Year	spec_year	nvarchar	250	YYYY	Yes	Υ
Special Provision	special_provision	nvarchar	250	{description}	No	N

Split Sample ID	split_sample_id	nvarchar	250		No	N
Station	station	nvarchar	250	0000+00.00	No	N
Structure Number	structure_number	nvarchar	250	see validators	No	Ν.
Supplier / Producer	supplier	nvarchar	100	{supplier_description}	Yes	Y

#### Footer Fields

The footer information contains the date and approval fields for each of the test forms.

Table Name	FOOTER_VALUE	OVT		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Authorized By	authorized_by	nvarchar	100		No	Y
Authorized Date	authorized_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Completed Date	completed_date	Smalldatetime	4	MM/DD/YYYY	No	Y.
Remarks	remarks	text	16		No	N
Reviewed By	reviewed_by	nvarchar	100		No	Y

## Form Specific Information

Moisture Content of Aggregates - (DB-103-E)

Table Name	VALUE DE103E			Maximum Rows	6	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Dish Number	dish_no	nvarchar	100		No	N
Mass of Wet Sample + Tare	wet_sample_tare	decimal	9 (19, 8)		No	N
Mass of Dry Sample + Tare	dry_sample_tare	decimal	9 (19, 8)		No	N
are Mass	tare_mass	decimal	9 (19, 8)		No	N
Moisture Content	moisture_content	decimal	9 (19, 8)		No	Y
Vet Weight of Class 2 Flex Base:	wet_weight	decimal	9 (19, 8)		No	N
Payable Weight of Class 2 Flex Base:	payable_weight	decimal	9 (19, 8)		No	N
est Method	test_method	nvarchar	100	DB-103-E	No ·	N
ested By	tested_by	nvarchar	100	{full_name}	No	Y
ested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y

Atterberg Limits - (DB-104-6)

Table Name	VALUE DB10	SMASSACCETA DIGITATION VIII		. Maximum Rows		Data
Field Description	Field Name		Length	Values	Required	Transfer
Liquid Limit Average	liquid_limit_total	decimai	9 (19, 8)		No	Y
Test Method .	test_method	nvarchar	1.00	DB-104	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	inț	4		No	Y
Table Name	VALUE DE104E_S			Maximum Rows -	6 4 6	Data
Field Description	Field Name	Data Type	Length	Values 1	Required	Transfer
Dish Number	dish_no	nvarchar	100		Yes	N
Mass of Wet Sample + Tare	mass_wet_sample	decimal	9 (19, 8)		No	N
Mass of Dry Sample + Tare	mass_dry_sample	decimal	9 (19, 8)		No	N
Tare Mass	tare_mass	decimal	9 (19, 8)		No	N
Moisture Content	moisture_content	decimal	9 (19, 8)		No	N
Number of Blows	number_blows	int	4		No	N
Liquid Limit	liquid_limit	decimal	9 (19, 8)		No	N
nomen en dissiliante est est.		PARAGOG LIG				N
Table Name	VALUE_DB105E_S	SAMPLE		Maximum Rows	3	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Dish Number	dish_no	nvarchar	100		. No	N
Mass of Wet Sample + Tare	mass_wet_sample	decimal	9 (19, 8)		No	N
Mass of Dry Sample + Tare	mass_dry_sample	decimal	9 (19, 8)		No	N
Tare Mass	tare_mass	decimal	9 (19, 8)		No	N
Mass of Water	water_mass	decimal	9 (19, 8)		No	N
Plastic Limit	plastic_limit	decimal	9 (19, 8)		No	N

Table Name	VALUE D	)B105E		- Maximum Rows	1.0	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Plastic Limit Average	plastic_limit_total	decimal	9 (19, 8)		No	N
Test Method	test_method	nvarchar	100	DB-105	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	N
Tested Date .	tested_date	datetime	8	MM/DD/YYYY	No	N
Stamp Code	stamp_code	int	4		No	N
ersenser (est Name verse) a	NATION OF STREET, AND STREET,		(4(5))			
Table Name	-VALUE_C	)B106E		Maximum Rows	1.0	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Plasticity Index	plasticity_index	int	4		No	Υ
Use Bar Linear Shrinkage	use_bar_linear	nvarchar	100	{Yes, No}	No	N
Test Number Reference	test_number_reference	nvarchar	100		No	N
Test Method	test_method	nvarchar	100	DB-106	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y

#### Bar Linear Shrinkage - (DB-107-E)

Table Name	VALUE_DE			Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Unit	unit	nvarchar	100		No	N
nitial Length	initial_length	decimal	9 (19, 8)		No	N
Final Length	final_length	decimal	9 (19, 8)		No	N
inear Shrinkage	linear_shrinkage	decimal	9 (19, 8)		No	Y
Minimum by Specification	minimum_by_specification	decimal	9 (19, 8)		No	N
Maximum by Specification	maximum_by_specification	decimal	9 (19, 8)		No	· N
Calculate Plasticity Index	calculate_plasticity_index	Bit	1	{1, 0}	No	N
Plasticity Index	plasticity_index	decimal	9 (19, 8)		No	N
Test Method	test_method	nvarchar	100	DB-107-E	No	N N
Tested By	tested by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	<u> </u>
Stamp Code	stamp_code	int	4		No	Y

#### Particle Size Analysis – (DB-110-E)

Tracking a second		A PHILLIPS OF STREET	MANAYSILTO			
Table Name	VALUE DB110E	SIEVE		Maximum Rows	6	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Cumulative Percent Retained	cumulative_pct_retained	decimal	9 (19, 8)		No	Υ
Cumulative/Individual Weight Retained	cumulative_weight_retained	decimal	9 (19, 8)		No	N
Lower Spec Limit	lower_spec_limit	decimal	9 (19, 8)		No	N
Within Master Grading	master_grading	nvarchar	100	{Yes, No}	No	Y
Sieve Size	sieve_size	nvarchar	100	see validator	No	Y
Upper Spec Limit	upper_spec_limit	decimal	9 (19, 8)		No	N
Weight Retained	weight_retained	decimal	9 (19, 8)		No	N
Table Name	VALUE DB11	0E		Maximum Rows	4.5	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Type of Weight Retained	individual_cumulative	nvarchar	100	{Cumulative, Individual}	No	N
No40	negative_no_40	nvarchar	100		. No	N
Stamp Code	stamp_code	int	4		No	Y
Test Method	test_method	nvarchar	100	DB-110-E	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	<u> </u>
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Total Weight Retained	total	nvarchar	100		No	N

# Moisture-Density Relations of Base Material and Cohesionless Sand – (DB-113-E)

Test Name Table Name	VALUE	ijeelauonstoneasetM )B113E		Maximum Rows	100	Data
Field Description	Field Name	Data Type	Length	Values		Transfer
Dry Density Scale Max	dry_density_scale_max	decimal	9 (19, 8)		No	N
Dry Density Scale Min	dry_density_scale_min	decimal	9 (19, 8)		No	N
Dry Density Scale unit	dry_density_scale_unit	decimal	9 (19, 8)		No .	N
Hygroscopic Moisture	hygroscopic_moisture	decimal	9 (19, 8)		No	N
Max Density, kg/m^3	max_density_kg	decimal	9 (19, 8)		No	N
Max Density, pcf	max_density_pcf	decimal	9 (19, 8)		No	Y
Moisture scale max	moisture_scale_max	decimal	9 (19, 8)		No	N
Moisture scale min	moisture_scale_min	decimal	9 (19, 8)		No	IN IN
Moisture scale unit	moisture_scale_unit	decimal	9 (19, 8)		No	IN V
Optimum Moisture	optimum_moisture	decimal	9 (19, 8)		No	Y
Oven Dry Weight	oven_dry_weight	decimal	9 (19, 8)		No	N

Soil Description	soil_desc	nvarchar	100		No	Y
Specific Gravity	specific_gravity	decimal	9 (19, 8)		No	N
Stamp Code	stamp_code	int	4		No	Υ
Test Method	test_method	nyarchar	100	DB-113-E	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Weight of Aggregate Pycnometer & Water	weight_of_aggr	decimal	9 (19, 8)		No	N
Weight of Pycnometer & Water	weight_of_pycnometer	decimal	9 (19, 8)		No	· N
Table Name	VALUE_DB113E_SP	ECIMEN		Maximum Rows	3	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Percent Water Content	pct_water_content	decimal	9 (19, 8)		No	N
Mass Material	mass_material	decimal	9 (19, 8)		No	N
Mass Water Added	mass_water_added	decimal	9 (19, 8)		No	N
Tare Mass Mold	tare_mass_mold	decimal	9 (19, 8)		No	N
Wet Mass Specimen & Mold	wet_mass_specimen_mold	decimal	9 (19, 8)		No	. N
Wet Mass Specimen	wet_mass_specimen	decimal	9 (19, 8)		No	N
Height of Specimen	height_specimen	decimal	9 (19, 8)		No	. N
Volume Per Linear	volume_per_linear	decimal	9 (19, 8)		No	N
Volume of Specimen	volume_specimen	decimal	9 (19, 8)		No	N
Wet Density of Specimen	wet_density_specimen	decimal	9 (19, 8)		No	N
Wet Mass Of Pan & Specimen	wet_mass_pan_specimen	decimal	9 (19, 8)		No	N
Dry Mass Pan & Specimen	dry_mass_pan_specimen	decimal	9 (19, 8)		No	N
Tare Mass Pan	tare_mass_pan	decimal	9 (19, 8)		No ·	N
Dry Mass Material	dry_mass_material	decimal	9 (19, 8)		No	N
Mass Water	mass_water	decimal	9 (19, 8)		No	N
Percent Water On Total	pct_water_total	decimal	9 (19, 8)		No	N
Dry Density	dry_density	decimal	9 (19, 8)		No	N
Estimated Dry Density	est_dry_density	decimal	9 (19, 8)		No	N

# Moisture-Density Relationship of Subgrade and Embankment Soils – (DB-114-E)

Train Walling	A THE CASE OF THE PROPERTY OF	nearainionsintio Seljie	ade andregioalika eniksijilik	Enfoakkinen(kspilez-sozozakia)		
Table Name	Management of the Control of the Con	DB114E	Maximum Row	s 1	- Data	
Field Description	Field Name	Data Type	Length Values	Required	Transfer	
Dry Density Scale Max	dry_density_scale_max	Decimal	9 (19, 8)	No	IN .	
Dry Density Scale Min	dry_density_scale_min	Decimal	9 (19, 8)	No	N	
Dry Density Scale unit	dry_density_scale_unit	Decimal	9 (19, 8)	No	<u>l</u> N	

Hygroscopic Moisture	hygroscopic_moisture	Decimal	9 (19, 8)		No	N
Max Density (kg)	max_density_kg	Decimal	9 (19, 8)		No	N
Max Density (pcf)	max_density_pcf	Decimal	9 (19, 8)		No	Υ
Moisture scale max	moisture_scale_max	Decimal	9 (19, 8)		No ·	N
Moisture scale min	moisture_scale_min	Decimal	9 (19, 8)		No	N
Moisture scale unit	moisture_scale_unit	Decimal	9 (19, 8)		No	N
Optimum Moisture	optimum_moisture	Decimal	9 (19, 8)		No.	Υ
Oven Dry Weight	oven_dry_weight	Decimal	9 (19, 8)		No	N
Soil Descript	soil_description	nvarchar	100		No	Υ
Specific Gravity	specific_gravity	Decimal	9 (19, 8)		No	N
Stamp Code	stamp_code	int	4		No	Υ
Test Method	test_method	nvarchar	100		No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4		No	·Y
Weight of Aggr., Pycn. & Water	weight_of_aggr	Decimal	9 (19, 8)		No	N
Weight of Pycnometer & Water	weight_of_pycnometer	Decimal	9 (19, 8)		No	N
Table Name		AEASPECIMEN		Maximum Rows	4	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Percent Water Content	pct_water_content	Decimal	9 (19, 8)		No	. N
Mass Material	mass_material	Decimal	9 (19, 8)		No	N
Mass Water Added	mass_water_added	Decimal	9 (19, 8)		No	N
Wet Mass Specimen & Mold	wet_mass_specimen_mold	Decimal	9 (19, 8)		No	N
Tare Mass Mold	tare_mass_mold	Decimal	9 (19, 8)		No	N
Wet Mass Specimen	wet_mass_specimen	Decimal	9 (19, 8)		No	N
Height of Specimen	height_specimen	Decimal	9 (19, 8)		No	N
Volume Per Linear mm	volume_per_linear	Decimal	9 (19, 8)		No	N
Volume of Specimen	volume_specimen	Decimal	9 (19, 8)		No	N
Wet Density of Specimen	wet_density_specimen	Decimal	9 (19, 8)		No	N
Wet Mass of Pan & Specimen	wet_mass_pan_specimen	Decimal	9 (19, 8)		No	N
Dry Mass Pan & Specimen	dry_mass_pan_specimen	Decimal	9 (19, 8)		No	N
Tare Mass Pan	tare_mass_pan	Decimal	9 (19, 8)		No	N
Dry Mass Material	dry_mass_material	Decimal	9 (19, 8)		No	N
Mass Water	mass_water	Decimal	9 (19, 8)		No	N
Percent Water Total	pct_water_total	Decimal	9 (19, 8)		No	N
Dry Density	dry_density	Decimal	9 (19, 8)		No	N
Estimated Dry Density	est_dry_density	Decimal	9 (19, 8)		No	N

#### Nuclear Density and Moisture Determination – (DB-115-1)

Table Name		ensity/and/Meisi		inetione Acoustic Section 1995 Maximum Rows		Data
Field Description	Field Name		Length	Values	Required	Transfer
Determined By Test Method	determined_by_test_method	Data Type nvarchar	100	{DB-113-E, DB-114-E}	No	N
Maximum Dry Density, pcf	max_dry_density_pcf	decimal	9 (19, 8)	(DD-113-E, DD-114-E)	No	
	optimum_moisture_content_pct	decimal		·····	No	<del>                                     </del>
Optimum Moisture Content		int	9 (19, 8)		No	l i
Density Standard	density_standard	int	4		No	N
Moisture Standard	density_count		4		No ·	N
Density Count	moisture_standard	int	4	· · · · · · · · · · · · · · · · · · ·	No	N
Moisture Count	moisture_count	int	4	· · · · · · · · · · · · · · · · · · ·	No	N
Probe Depth	probe_depth	decimal	9 (19, 8)			<u> </u>
Gauge Number	gauge_no	nvarchar	100		No	
Wet Density, pcf	wet_density_pcf	decimal	9 (19, 8)		No	N
Dry Density, pcf	dry_density_pcf	decimal	9 (19, 8)		No	Y
Moisture Content	moisture_content_pct	decimal	9 (19, 8)		No	Υ
Moisture Content Pass/Fail	moisture_content_pct_pass_fail	nvarchar	100	{Pass, Fail}	No	N
Density	density_pct	decimal	9 (19, 8)		No	Y
Density Pass/Fail	density_pct_pass_fail	nvarchar	100	(Pass, Fail)	No	N
Density Specification Low Requirement	density_specification_req_min	decimal	9 (19, 8)		No	N
Density Specification High Specification	density_specification_req_max	decimal	9 (19, 8)		No .	N
Moisture Specification Requirement Low			9 (19, 8)			
Specification	moisture_specification_req_min	decimal			No	N
Moisture Specification Requirement High			9 (19, 8)			
Specification	moisture_specification_req_max	decimal		1	No	N
Soil Description	soil_desc	nvarchar	100		No ·	Y
Test Method	test_method	nvarchar	1.00	DB-115	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y

# Soil / Aggregate Field Unit Weight Tests Sand Cone Method – (DB-115-2)

Alfantishing	and the second of the second o		interes es en l'especiale		
Table Name	VALUE	DB115_2	Maxim	um Rows 1	Data
Field Description	Field Name	Data Type	Length Va	lues Required	Transfer
Sand bulk unit weight	sand_bulk_unit_weight	decimal	9 (19, 8)	. No	IN A
Initial weight of sand	initial_weight_sand	decimal	9 (19, 8)	No	N N

Final weight of sand	final_weight_sand	decimal	9 (19, 8)		No	N
Volume of surface	volume_surface	decimal	9 (19, 8)		No	N
Initial weight of apparatus & sand	initial_weight_apparatus	decimal	9 (19, 8)		No	N
Final weight of apparatus & sand	final_weight_apparatus	decimal	9 (19, 8)		No	N
Total volume-sand used	total_volume	decimal	9 (19, 8)		No	N
Volume of hole	volume_hole	decimal	9 (19, 8)		No	N
Weight of material from hole	weight_material_hole	decimal	9 (19, 8)		No	N
Wet unit weight	wet_unit_weight	decimal	9 (19, 8)		No	N
Optimum moisture	optimum_moisture	decimal	9 (19, 8)		No	Y
Maximum dry unit weight	max_dry_unit_weight	decimal	9 (19, 8)		- No	Υ
Wet weight total moisture sample	wet_weight_total_moisture	decimal	9 (19, 8)		No	N
Dry weight total moisture sample	dry_weight_total_moisture	decimal	9 (19, 8)		No	N
Percent Moisture	pct_moisture	decimal	9 (19, 8)		No	Υ
Dry unit weight	dry_unit_weight	decimal	9 (19, 8)		No	Υ
Compaction	compaction_pct	decimal	9 (19, 8)		No	Υ
Moisture Required	moisture_req_pct	decimal	9 (19, 8)		No	N
Compaction Required	compaction_req_pct	decimal	9 (19, 8)		No	N
Pass/Fail Percent Moisture	pass_fail_pct_moisture	nvarchar	100	{Pass, Fail}	No	N
Pass/Fail Percent Density	pass_fail_pct_density	nvarchar	100	{Pass, Fail}	No	N
Soil Description	soil_desc	nvarchar	100		No	Y
Test Method	test_method	nvarchar	100	DB-115-2	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp code	int	4		No	Y

#### Resistance to Degradation by Wet Ball Mill Method - (DB-116-E)

A 700- A AMESTINAME E SACTORALIA Table Name	VALUE DRITE	(TOCCHARIATION)	AVEEEAIIK	jiirwetjious and Rows Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Type of Weight Retained	cumulative_method	nvarchar		{Cumulative, Individual}	No	N
Original Sieve Analysis Total Weight Retained	weight_retained_total	decimal	9 (19, 8)		No	N
Part I 3500g Preparation Total Individual Weight Retained	individual_weight_retained_3500g_total	decimal	9 (19, 8)		No	N
Part II 3000g Preparation Total Individual Weight Retained	individual_weight_retained_3000g_total	decimal	9 (19, 8)	·	No	N
Part I Wet Ball Mill Initial Weight	wbm_initial_weight	decimal	9 (19, 8)		No	N

Part I Wet Ball Mill Weight Retained (No. 40)	wbm_weight_retained_no40	decimal	9 (19, 8)		No	N
Part I Wet Ball Mill Weight Retained (No 40)	wbm_weight_retained_minusno40	decimal	9 (19, 8)		No	N .
Part I Wet Ball Mill Individual Percent Retained (No. 40)	wbm_individual_pct_retained_no40	decimal	9 (19, 8)		No ·	N
Part I Wet Ball Mill Individual Percent Retained (-No. 40)	wbm_individual_pct_retained_minusno40	decimal	9 (19, 8)		No	N
Part II Washed Sieve Analysis Initial Weight	wsa_initial_weight	decimal	9 (19, 8)	•	No .	· N
Part II Washed Sieve Analysis Weight Retained (No. 40)	wsa_weight_retained_no40	decimal .	9 (19, 8)		No	N
Part II Washed Sieve Analysis Weight Retained (No40)	wsa_weight_retained_minusno40	decimal	9 (19, 8)		No	N
Part II Washed Sieve Analysis Individual Percent Retained (No. 40)	wsa_individual_pct_retained_no40	decimal	9 (19, 8)		No	N
Part II Washed Sieve Analysis Individual Percent Retained (-No. 40)	wsa_inidividual_pct_retained_minusno40	decimal	9 (19, 8)		No	N
Wet Ball Mill Value	wbm_value	decimal	9 (19, 8)		No	Υ
Percent Soil Binder	pct_soil_binder	decimal	9 (19, 8)		No	N
Percent Soil Binder Increase	pct_soil_binder_increase	decimal	9 (19, 8)		No	Y
Test Method	test_method ·	nvarchar	100	DB-116	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Υ
Table Name	VALUE DB116E	SIEVE		Maximum Rows	7	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Original Sieve Analysis Cumulative Percen Retained	t cumulative_pct_retained	decimal	9 (19, 8)		No	N
Part II 3000g Preparation Cumulative Weight Retained	cumulative_weight_retained_3000g	decimal	9 (19, 8)	·	No	N
Part I 3500g Preparation Cumulative Weight Retained	cumulative_weight_retained_3500g	decimal	9 (19, 8)		No	N
Original Sieve Analysis Individual Percent Retained	individual_pct_retained	decimal	9 (19, 8)		No	N
Part II 3000g Preparation Individual Weigh Retained		decimal	9 (19, 8)		No	N
Part I 3500g Preparation Individual Weight Retained		decimal	9 (19, 8)		No	N
Sieve Size	sieve_size	nvarchar	50		No	N

Original Sieve Analysis Individual Weight			9 (19, 8)		
Retained	weight_retained	decimal		No	N

#### Triaxial Compression Tests – (DB-117-E)

Table Name	VALUE DB1	17E		Maximum Rows		Data
Field Description	Field Name		Length	Values	Required	Transfer
Classification	classification	nvarchar	100	Manual : Part II	No	N
Internal Angle of Friction	internal_angle_friction	decimal	9 (19, 8)		No	N
Cohesion, psi	cohesion_psi	decimal	9 (19, 8)		No	N ·
Correlation Factor	correlation_factor	decimal	9 (19, 8)		No	N
Average Corrected Strength, 00 psi	average_corrected_strength_0psi	decimal	9 (19, 8)		No	Υ
Average Corrected Strength, 15 psi	average_corrected_strength_15psi	decimal	9 (19, 8)		No	Υ
Grade, 00 psi	grade_0psi	nvarchar	100		No	N
Grade, 15 psi	grade_15psi	nvarchar	100		No	N
Test Method	test_method	nvarchar	100	DB-117-E	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUE DB117E S	PECIMEN		Maximum Rows	8	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Initial Height of Specimen	initial_height	decimal	9 (19, 8)		No	N
Height of Stone 1	height_stone1	decimal	9 (19, 8)		No	N
Height of Stone 2	height_stone2	decimal	9 (19, 8)		No	N
New Height of Specimen	new_height	decimal	9 (19, 8)		No	N
Average Diameter	avg_diameter	decimal	9 (19, 8)		No	N
Area	area	decimal	9 (19, 8)		No	N
Avg. Cross Sectional Area	avg_cross_sectional_area	decimal	9 (19, 8)		No	N.
Lateral Pressure	lateral_pressure_psi	decimal	9 (19, 8)		. No	N
Weight of Stones and Specimen	weight_stones_specimen	decimal	9 (19, 8)	•	No	N
Final Weight of Stones	uncorrected_stress_psi	decimal	9 (19, 8)		No	N
Weight of Specimen	final_weight_stones	decimal	9 (19, 8)		No	N
Dry Density of Specimen	weight_specimen	decimal	9 (19, 8)		No	N
Moisture of Specimen	dry_density_specimen_pcf	decimal	9 (19, 8)		No	N
Uncorrected Stress	pct_moisture_specimen	decimal	9 (19, 8)	·	No	N
% Strain	pct_strain	decimal	9 (19, 8)		No	N
I-Strain	i_strain	decimal	9 (19, 8)		No .	N

	Corrected Stress	corrected_stress_psi	decimal 9 (19, 8)	No N	
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#### Soil-Cement, Soil-Lime Testing – (DB-120-E)

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Table Name		DB120E		Maximum Rows	1000	Data
Field Description		Data Type	Length	Values	Required	Transfer
Performed By DB-120-E:	performed_by	nvarchar	200	Manual	No	N
Percent Cement, (%)	percent_cement	decimal	9 (19, 8)		No	Y
Avg. Corrected Stress, psi:	avg_corrected_stress_psi	decimal	9 (19, 8)		No	Y
Target Stress, psi:	target_stress_psi	decimal	9 (19, 8)		No	N
Target Percent Cement, %:	target_percent_cement	decimal	9 (19, 8)		No	N
Tested By	tested_by	nvarchar	200	{full_name}	No	Y
Tested Date	tested_date	smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		. No	Υ
Table Name	VALUE_DB12	OE_SPECIMEN		Maximum Rows	3	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Circumference	circumference	decimal	9 (19, 8)		No	N
Area	area	decimal	9 (19, 8)		No	N
Avg. Cross Sectional Area	avg_cross_section_area	decimal	9 (19, 8)		No	N
Lateral Pressure	lateral pressure	decimal	9 (19, 8)		No	N
Ring Factor	ring_factor	decimal	9 (19, 8)		No	N
Dead Load	dead load	decimal	9 (19, 8)		No	N
Max. Load Reading	max_load_reading	decimal	9 (19, 8)		No	N
Deformation at Max Load	deformation at max_load	decimal	9 (19, 8)		No	N
Uncorrected Stress	uncorrected_stress	decimal	9 (19, 8)		No	N
% Strain	pct strain	decimal	9 (19, 8)		No	N
I-Strain	i strain	decimal	9 (19, 8)		No	N
Corrected Stress	corrected_stress	decimal	9 (19, 8)		No	N
Avg. Corrected Stress	avg_corrected_stress	decimal	9 (19, 8)		No	N
Percent Cement	percent cement	decimal	9 (19, 8)		No	N
Initial Height of Specimen, in.:	initial_height_specimen	decimal	9 (19, 8)		No	N
Height of Stone 1, in.	height_stone1	decimal	9 (19, 8)		No	N
Height of Stone 2, in.	height_stone2	decimal	9 (19, 8)		No	N
New Height of Specimen, in.:	new_height_specimen	decimal	9 (19, 8)		No	N
Average Diameter, in.:	avg_diameter	decimal	9 (19, 8)		No	N

#### Soil-Lime Testing - (DB-121-E)

Table Name	VALUE DB121			Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Performed By DB-117-E	classification	nvarchar	100	Manual : Part II	No	N
Internal Angle Friction	internal_angle_friction	decimal	9 (19, 8)		No	N
Cohesion psi	cohesion_psi	decimal	9 (19, 8)		No	N
Correlation Factor	correlation_factor	decimal	9 (19, 8)		No	N
00 psi Average Corrected Strength	average_corrected_strength_0psi	decimal	9 (19, 8)		No	Υ
00 psi Grade	grade_0psi	nvarchar	100		No	N
15 psi Average Corrected Strength	average_corrected_strength_15psi	decimal	9 (19, 8)		No	Υ
15 psi Grade	grade_15psi	nvarchar	100		No	N
Test Method	test_method	nvarchar	100	DB-121-E	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUESDB121E_SP	ECIMEN		- Maximum Rows	8	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Initial Height of Specimen	initial_height	decimal	9 (19, 8)		No	N
Height of Stone 1	height_stone1	decimal	9 (19, 8)		No	N
Height of Stone 2	height_stone2	decimal	9 (19, 8)		No	N
New Height of Specimen	new_height	decimal	9 (19, 8)		No	N
Average Diameter	avg_diameter	decimal	9 (19, 8)		No	N
Area	area	decimal	9 (19, 8)		No	N
Avg. Cross Sectional Area	avg_cross_sectional_area	decimal	9 (19, 8)		No	N
Lateral Pressure	lateral_pressure_psi	decimal	9 (19, 8)		No	N
Weight of Stones and Specimen	weight_stones_specimen	decimal	9 (19, 8)		No	N
Final Weight of Stones	final_weight_stones	decimal	9 (19, 8)		No	N
Weight of Specimen	weight_specimen	decimal	9 (19, 8)		No	N
Dry Density of Specimen	dry_density_specimen_pcf	decimal	9 (19, 8)		No	N
Moisture of Specimen	pct_moisture_specimen	decimal	9 (19, 8)		No	N
Uncorrected Stress	uncorrected_stress_psi	decimal	9 (19, 8)		No	N
% Strain	pct_strain	decimal	9 (19, 8)		No No	N
I-Strain	i_strain	decimal	9 (19, 8)		No	N
Corrected Stress	corrected_stress_psi	decimal	9 (19, 8)	<u></u>	INU	111

#### Density of Asphalt Stabilized Base – (DB-126-E)

Tiest Name Table Name	Density of Aspiralt Stabilized Base WALUE DB126		200 (200 (200)	Maximum Rows	Maximum Rows 1		
Field Description	Field Name	Data Type	Length	Values	Required	Data Transfer	
Gauge Reading Type	broken method	nvarchar	20	Fast Break, Slow Break	No	N	
Max Density Specimen Date Molded	molded date max	Smalldatetime	4	MM/DD/YYYY	No	N <sub>i</sub>	
Max Density Specimen Mold Number	mold_number_max	nvarchar	100		No	N	
Max Density Specimen Percent Asphalt in Mix	asphalt_pct_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Weight of Material	weight_of_mat_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Height of Specimen	height_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Measured Weight	measured_weight_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Weight of Plate	weight_of_plates_max	decimal	9 (19, 8)	·	No	· N	
Max Density Specimen Weight of Filters	weight_of_filters_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Weight of Specimen	weight_of_specimen_max	decimal	9 (19, 8)		No -	N	
Max Density Specimen Volume of Mold (ft^3/in.)	volume_of_mold_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Volume of Specimen(ft^3)	volume_of_specimen_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Density of Specimen (lbs./ft^3)	density_of_specimen_max	decimal	9 (19, 8)		No	Y	
Max Density Specimen Date Broken	date_broken_max	Smalldatetime	4	MM/DD/YYYY	, No	N	
Max Density Specimen Gauge Reading (psi)	gague_reading_psi_max	decimal	9 (19, 8)		No	N	
Max Density Specimen Unconfined Compressive Strength (psi)	UCS_max	nvarchar	100		No	Υ	
Lower Density Specimen Date Molded	molded_date_min	Smalldatetime	4	MM/DD/YYYY	No	N	
Lower Density Specimen Mold Number	mold_number_min	nvarchar	100		No	N	
Lower Density Specimen Percent Asphalt in Mix	asphalt_pct_min	decimal	9 (19, 8)		No	N	
Lower Density Specimen Weight of Material	weight_of_mat_min	decimal	9 (19, 8)		No	N	
Lower Density Specimen Height of Specimen	height_min	decimal	9 (19, 8)		No	N	

	docimal	9 (19, 8)		No	N
measured_weight_min	decimal			140	11
		9 (19, 8)		NI=	
	decimal			No	N
		9 (19, 8)			
weight_of_filters_min	decimal			No	N
·		9 (19, 8)			
weight of specimen_min	decimal	`		No	N
		9 (19, 8)			
volume_of_mold_min	decimal			No	N
		9 (19, 8)			
volume of specimen min	decimal	, , ,		No	N
		9 (19, 8)			
density of specimen min	decimal			No	Υ
date broken_min	Smalldatetime	4	MM/DD/YYYY	No	N
·		9 (19, 8)			
gague reading psi min	decimal			No	N
		100			
UCS min	nvarchar			No	Y
	decimal	9 (19, 8)		No	N
	decimal			No	N
min specimen UCS	decimal	1 (1.2, 2)		No	N
	nvarchar	100	{full_name}	· No	Y
	datetime	8	MM/DD/YYYY	No	Y
stamp_code	int	4		. No	V
	weight_of_specimen_min  volume_of_mold_min  volume_of_specimen_min  density_of_specimen_min  date_broken_min  gague_reading_psi_min  UCS_min min_allowable_density min_pct_density  min_specimen_UCS tested_by tested_date	weight_of_plates_min       decimal         weight_of_filters_min       decimal         weight_of_specimen_min       decimal         volume_of_mold_min       decimal         volume_of_specimen_min       decimal         density_of_specimen_min       decimal         date_broken_min       Smalldatetime         gague_reading_psi_min       decimal         UCS_min       nvarchar         min_allowable_density       decimal         min_pct_density       decimal         min_specimen_UCS       decimal         tested_by       nvarchar         tested_date       datetime	Interpretation     Image: measured weight min     Image: measured min     Image: measured weight min     Image: measured measured min     Image: measured measured measured min     Image: measured measu	measured_weight_min  measured_	nt         measured_weight_min         decimal         No           weight_of_plates_min         decimal         9 (19, 8)         No           weight_of_filters_min         decimal         9 (19, 8)         No           weight_of_specimen_min         decimal         9 (19, 8)         No           volume_of_mold_min         decimal         9 (19, 8)         No           volume_of_specimen_min         decimal         9 (19, 8)         No           density_of_specimen_min         decimal         9 (19, 8)         No           date_broken_min         Smalldatetime         4         MM/DD/YYYY         No           gague_reading_psi_min         decimal         9 (19, 8)         No           UCS_min         nvarchar         100         No           min_allowable_density         decimal         9 (19, 8)         No           min_pct_density         decimal         9 (19, 8)         No           min_specimen_UCS         decimal         9 (19, 8)         No           tested_by         nvarchar         100         {full_name}         No           tested_date         datetime         8         MM/DD/YYYY         No

#### Determining Soil PH - (DB-128-E)

The little of th	Zonas (1920-1935) idibigizatilgilaje Sioli III de en					
Table Name	VALUE*	DB128E		Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Soil pH	soil ph	decimal	9 (19, 8)		No	Y
Test Method	test_method	nvarchar	100	DB-128-E	No	Ņ
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ

#### Measuring the Resistivity of Soil Materials – (DB-129-E)

Test Name Table Name	VALUE_DB	129E		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Area of one electrode	sbf_area	decimal	9 (19, 8)		No	N
Distance between electrodes, (cm)	sbf_distance	decimal	9 (19, 8)		No	N
Soil Box Factor	sbf_factor	decimal	9 (19, 8)		No	N
Resistance using resistivity meter, (ohms)	resistance_using_meter	decimal	9 (19, 8)	• .	No	N
Resistivity (ohm-cm)	resistivity_result	decimal	9 (19, 8)		No	Y
Test Method	test_method	nvarchar	100	DB-129-E	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Υ

#### Measuring Thickness of Pavement Layer – (DB-140-E)

Table Name	VALUE	DB140E		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Average Depth	avg_depth	decimal	9 (19, 8)		No	Y
Depth 1	depth_1	decimal	9 (19, 8)		. No	N
Depth 2	depth_2	decimal	9 (19, 8)		No	N
Depth 3	depth_3	decimal	9 (19, 8)		No	N
Stamp Code	stamp_code	int	4		No	Y
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested date	datetime	8	MM/DD/YYYY	No	Υ

## Sieve Analysis of Non-Surface Treatment Aggregates - (DB-200-F)

				/Assign exclations		
Table Name	VALUE DB200	COMMON STATE OF STATE		Maximum Rows	1	Data
Field Description	Field Name		Length	Values	Required	Transfer
Original Dry Weight	original dry weight	decimal	9 (19, 8)		No	N
Dry Weight After Washing	dry_weight_after_washing	decimal	9 (19, 8)		. No	N
Limit As Percent	limit_as_percent	nvarchar	100	{Passing, Retained}	No	·N
Cumulative Weight Retained Minusno14	cumulative_weight_retained_minusno14	decimal	9 (19, 8)		No	<u>N</u>

Sieving Loss	sieving loss	decimal	9 (19, 8)		No	N
Washing Loss	washing_loss	decimal	9 (19, 8)		· No	· N
Sieve Analysis Result 1	sieve_analysis_result1	nvarchar	100	,	No	N
Sieve Analysis Result 2	sieve_analysis_result2	decimal	9 (19, 8)		No	N
Sieve Analysis Result 3	sieve_analysis_result3	decimal	9 (19, 8)		No	N
Sieve Analysis Result 4	sieve_analysis_result4	decimal	9 (19, 8)		No	N
Total Weight	total_weight	decimal	9 (19, 8)		No	N
Test Method	test_method	nvarchar	100	DB-200-F	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Υ.
Table Name	VALUE DB2	OOF_SIEVE		Maximum Rows	12	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sieve Size	sieve_size	nvarchar	100		No	Y
Cumulative Weight Retained	cumulative_weight_retained	decimal	9 (19, 8)		No	N
Individual Weight Retained	individual_weight_retained	decimal	9 (19, 8)		No	N
Cumulative Percent Retained	cumulative_pct_retained	decimal	9 (19, 8)		No	Y
Cumulative Percent Passing	cumulative_pct_passing	decimal	9 (19, 8)		No	N
Lower Limit Grading	lower limit grading	decimal	9 (19, 8)		No	N
Upper Limit Grading	upper_limit_grading	decimal	9 (19, 8)		No	N
Within Grading Limits	within grading limits	bit	1		No	Y

# Sieve Analysis of Surface Treatment Aggregate – (DB-200-ST)

Fest Name - All Table Name	VALUE_t	DB200ST		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length		Required	Transfer
Туре	type	nvarchar	100	{A, B, C, D, E, L, PA, PB, PC, PD, PE, PL}	No	N
Percent Asphalt	asphalt_pct	decimal	9 (19, 8)		No	N
Percent Moisture	moisture_pct	decimal	9 (19, 8)		No	N
Original Dry Weight	orig_dry_weight	decimal	9 (19, 8)		No	N
Dry Weight After Washing	dry_weight_after_washing	decimal	9 (19, 8)	·	No	N
Weight Retained	weight_retained	decimal	9 (19, 8)		No	N
Sieving Loss	sieving_loss	decimal	9 (19, 8)		No	N
Washing Loss	washing_loss	decimal	9 (19, 8)		No	N
Pan Weight	pan_weight	decimal	9 (19, 8)		No	N
Weight Difference	weight_difference	decimal	9 (19, 8)	1	No	N

Percent Difference	percent_difference	decimal	9 (19, 8)		No	N
Total	total_weight	decimal	9 (19, 8)		No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ
Table Name	VALUE DB20	OST_SIEVE		Maximum Rows	8	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Cumulative Percent Passing	cumulative_percent_passing	decimal	9 (19, 8)		No	Y
Lower Retained Limit	lower_retained_limit	decimal	9 (19, 8)		No	N
Cumulative Percent Retained	percent_retained_cumulative	decimal	9 (19, 8)		No	Y .
Individual Percent Retained	percent_retained_individual	decimal	9 (19, 8)	,	No	N
Sieve Size	sieve_size	nvarchar	100		No	<del>L</del>
Upper Retained Limit	upper_retained_limit	decimal	9 (19, 8)		No	N
Cumulative Weight Retained	weight_retained_cumulative	decimal	9 (19, 8)		No	N
Individual Weight Retained	weight_retained_individual	decimal	9 (19, 8)		No	N
Within Master Grading	within_master_grading	nvarchar	100	(Pass, Fail)	No	Y

#### Sand Equivalent - (DB-203-F)

i es meanneadh a sa c				Maximum Rows		Data
Table Name Field Description	VALUE_DB: Field Name	203F Data Type	Length	Values	Required	Transfer
Sand Equivalent No.1 Sand Reading	sand1_reading	decimal	9 (19, 8)		No	N
Sand Equivalent No.1 Clay Reading	clay1_reading	decimal	9 (19, 8)		No	N
Sand Equivalent No.1 Calculated	sand1_calculated	decimal	9 (19, 8)		No	N
Sand Equivalent No.1 Reported	sand1_reported	decimal	9 (19, 8)		No	N
Sand Equivalent No.2 Sand Reading	sand2_reading	decimal	9 (19, 8)		No	N
Sand Equivalent No.2 Clay Reading	clay2 reading	decimal	9 (19, 8)		No	N
Sand Equivalent No.2 Calculated	sand2_calculated	decimal	9 (19, 8)		No	N
Sand Equivalent No.2 Reported	sand2_reported	decimal	9 (19, 8)		No	N
Average Sand Equivalent	average_sand_equivalent	decimal	9 (19, 8)		No	<u> </u>
Test Method	test_method	nvarchar	100	DB-203-F	No	N
ested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	<b>↓</b>
Stamp Code	stamp_code	int	4		No	<u> </u>

#### Placement Density - (DB-207-FPL)

No. 2 Negriklanje 12	Constitution of the second sec					
Table Name	VALUE_DB207	FPL		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
In Place Air Void	air_void	decimal	9 (19, 8)		No	Y
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	nvarchar	100		No	Y

#### Deleterious Materials & Verification for Coaese Aggregate - (DB-217-F)

Table Name	VALUE DB217F			Maximum Rows	Data	
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Deleterious Material Sieve Size	part1_sieve_size	nvarchar	100		No	N
Deleterious Material Original Weight Retained	part1_orig_weight_retained	decimal	9 (19, 8)		No	N
Weight of Deleterious Material	part1_weight_deleterious_material	decimal	9 (19, 8).		No	N
Percent of Deleterious Material	part1_pct_deleterious_material	decimal	9 (19, 8)		No	Y
Decantation Sieve Size	part2_sieve_size	nvarchar	53		No	N
Decantation Original Weight Retained	part2_orig_weight_retained	decimal	9 (19, 8)		No	N
Dry Weight after Washing	part2_dry_weight_after_washing	decimal	9 (19, 8)		No	N.
Percent Loss by Decantation	part2_loss_by_decantation	decimal	9 (19, 8)		No	Y
Test Method	test method	nvarchar	100	DB-217-F	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	<u> Ү</u>

#### Determining Flakiness Index – (DB-224-F)

B	osa   osa a Dielenaninina alakintess incle)						
Table Name		DB224F	, A	Aaximum Rows	1	Data	
Field Description	Field Name	Data Type	Length	Values	Required	Transfer	
Number of Particles 1	num_particles_1	decimal	9 (19, 8)		No	N	
Number of Particles 2	num_particles_2	decimal	9 (19, 8)		No	IN N	
Number of Particles 3	num_particles_3	decimal	9 (19, 8)		No	N N	
Number of Particles Passing 3/8" slot	slot_3_8	decimal	9 (19, 8)		No	IN	

Number of Particles Passing 1/4" slot	slot_1_4	decimal	9 (19, 8)		No	N
Number of Particles Passing 5/32" slot	slot_5_32	decimal	9 (19, 8)		No	N
Total Particles	total_particles	decimal	9 (19, 8)		No	·N
Total Passing Particles	total_passing_particles	decimal	9 (19, 8)		No	N
Flakiness Index	flakiness_index	decimal	9 (19, 8)		No	Υ
Test Method	test_method	nvarchar	100 .	DB-224-F	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ

### Determining Draindown Characteristics in Bituminous Materials – (DB-235-F)

Table Name		VALUE DB235F			Maximum Rows 1		
Field Description	Field Name	Data Type	Length	Values	Required	Transfer	
Sample 1 Initial Sample Weight(g)	init_sample_weight_1	decimal	9 (19, 8)		No	N	
Sample 1 Initial Weight Plate(g)	init_weight_plate_1	decimal	9 (19, 8)	:	No	Ņ	
Sample 1 Final Weight Plate(g)	final_weight_plate_1	decimal	9 (19, 8)		No	N	
Sample 1 Percent of Draindown, (%)	pct_draindown_1	decimal	9 (19, 8)		No	N	
Sample 2 Initial Sample Weight(g)	init_sample_weight_2	decimal	9 (19, 8)		No	N	
Sample 2 Initial Weight Plate(g)	init_weight_plate_2	decimal	9 (19, 8)		No	N	
Sample 2 Final Weight Plate(g)	final_weight_plate_2	decimal	9 (19, 8)		No	N	
Sample 2 Percent of Draindown, (%)	pct_draindown_2	decimal	9 (19, 8)		No	N	
Average Percent of Draindown for Two Samples (%)	avg_pct_draindown	decimal	9 (19, 8)		No	Υ	
Tested By	tested_by	nvarchar	100	{full_name}	No	Y	
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y	
Stamp Code	stamp_code	int	4		No	<u> </u>	

### QC/QA Asphalt Test - (DB-3146-F)

		Nemenale Mesternity	Wind Skill Hall Bright	Universities :		
Table Name	VALUE D		4	Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
HVEEM Stability	HVEEM	decimal	9 (19, 8)		No	Y
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	nvarchar	100		No	Y

Test Names 2007	28/28 22 Gradation of Extrapled Action	e) (e)				
Table Name	VALUE DB229F		Maximum Rows	1	Data	
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	nvarchar	100		No	Υ
Table Name	VALUE DB	229F SIEVE		Maximum Rows	9	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sieve Size	sieve_size	nvarchar	100		No	Y
Design JMF	Design_JMF	nvarchar	100		No	N
Current JMF	Current_JMF	nvarchar	100		No	N
Cumulative Percent Passing	pct	decimai	9 (19, 8)		. No	Y

anne an air an air an air an t-	Opinining Opinion of the companies of th	analiyi (20 Mayante	Sal <b>G</b> inimia	me Williams		
Table Name	VALUE_DB20	7FPR		Maximum Rows	1.0	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Average Actual Specific Gravity	GA .	nvarchar	100		No	Y
Lab Molded Density	LMD	decimal	9 (19, 8)		No	Y
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	nvarchar	100		No	Y

and the second s		ksjepomaznomej (709)	gereille field	(fyright)		
able Name	VALUE	DB227F		Maximum Rows	100	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Rice Specific Gravity	rice_specific_gravity	decimal	9 (19, 8)		No	L Ÿ
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	nvarchar	100		No .	Y

		an ear geagailteil a Geagleag	a Spanision in the			
able Name	VALUE		23.04.0	Maximum Rows	***** ********************************	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Asphalt Content	AC	decimal	9 (19, 8)		No	Y
Tested By	tested by	nvarchar	100	{full_name}	No	Y
Tested Date	tested date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	nvarchar	100		No	Y

### Sieve Analysis for Fine & Coarse Aggregate – (DB-401-2)

ijes) (Name) — 1995.	Sieve Adalysis 19 8	1				
Table Name	VALUE			Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sand Equivalend Exceed 85	equivalent_exceed_85	Bit	1	{1, 0}	No	Y.
Stamp Code	stamp_code	int	4		No	Υ
Test Method	test_method	nvarchar	100	DB-401-A	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4	. MM/DD/YYYY	No	Y
Total Cumulative Weight Retained	total	decimal	9 (19, 8)	•	No	N
Table Name	VALUE DB4	OTA_SIEVE		Maximum Rows	8	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sieve Size	sieve_size	nvarchar	100		No	Y
Cumulative Weight Retained	cumulative_weight_retained	decimal	9 (19, 8)		No	N
Individual Weight Retained	individual_weight_retained	decimal	9 (19, 8)		No	N
Cumulative Percent Retained	cumulative_pct_retained	decimal	9 (19, 8)		No	Y
Cumulative Percent Passing	cumulative_pct_passing	decimal	9 (19, 8)		No	Y
Lower Spec Limit	lower_retained_spec_limit	decimal	9 (19, 8)		No	N
Upper Spec Limit	upper_retained_spec_limit	decimal	9 (19, 8)		No	N
Within Master Grading	within_master_grading	varchar	20	{Pass, Fail}	No	Υ

Table Name	VALUE	DB402A		Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfe
ineness Modulus	fineness_modulus	decimal	9 (19, 8)		No	Y
est Method	test_method	nvarchar	100	DB-402-A	No	N
ested Bv	tested_by	nvarchar	100	{full_name}	No	Y
ested Date	tested_date	smalldatetime	4	MM/DD/YYYY	No	. Y
Stamp Code	stamp_code	int	4		No	Y

#### Decantation Test For Concrete Aggregates – (DB-406-A)

Table Name	VALUE DB406A					Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Decantation Test By	test_by	nvarchar	100	{Part I – Lab Method, Part II – Field Method}	No	Υ
Original Dry Mass of Sampled	original_dry_mass	decimal	9 (19, 8)		No	N
Dry Mass After Washing	dry_mass_after_washing	decimal	9 (19, 8)		No.	N
Part I Percent Loss	percent_loss_part1	decimal	9 (19, 8)		No	Υ
Mass of Pycnometer Containing Sample and Water To Fill Before Washing	mass_of_pycnometer_before_washing	decimal	9 (19, 8)		No	N
Mass of Pycnometer Containing Sample and Water To Fill After Washing	mass_of_pycnometer_after_washing	decimal	9 (19, 8)		No	N
Mass of Pycnometer Filled With Water at Approx.	mass_of_pycnometer_with_water	decimal	9 (19, 8)		No	N
Part II Percent Loss	percent_loss_part2	decimal	9 (19, 8)		No	N .
Normality of HCL Used	normality_of_hcl	decimal	9 (19, 8)		No	N
Starting	starting_ml	decimal	9 (19, 8)		No	N
Ending	ending_ml	decimal	9 (19, 8)		No	N
Sample Weight	sample_weight	decimal	9 (19, 8)		No	N
Percent of Limestone	pct_limestone	decimal	9 (19, 8)		No	. N
Test Method	test_method	nvarchar	100	DB-406-A	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Y.
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y

### Organic Impurities in Fine Aggregate for Concrete – (DB-408-A)

Table Name	VALUE	e limpurtiles: h <mark>iffi</mark> ne <b>A</b> 6 DB224F	gregatelo)	Cona street	1 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5 (5	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Color of the Supernatant Liquid	color_of_supernatant_liquid	nvarchar	100	{LIGHTER THAN STANDARD, EQUAL TO STANDARD, DARKER THAN STANDARD}	No	Y
Test Method	test_method	nvarchar	100	DB-408-A	No	N

Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4	•	No	Υ

#### Resistance to Degradation by Abrasion & Impact in Los Angeles Machine - (DB-410-A)

ovszaszenski Schedoname v School		idetion by Adesionis B410A		osia ngeles Machine. Maximum Rows		Data
Table Name Field Description	VALUE_D Field Name		Length	Values	Required	Transfer
LA Abrasion Type	la abrasion type	nvarchar	100	{A,B,C,D}	No	Y
Number of Spheres	number_of_spheres	int	4		No	N
Weight of Spheres	weight_of_charge	nvarchar	100		No	N
Total Weight	weight_total	decimal	9 (19, 8)		No	N
Sieve	sieve	nvarchar	100		No	Υ
Initial Weight	initial_weight	decimal	9 (19, 8)		No	N.
Final Weight	final_weight	decimal	9 (19, 8)		No	N
Loss of Weight	loss_of_weight	decimal	9 (19, 8)	,	No	N
Percent Loss	percent_loss	decimal	9 (19, 8)		No	Y
La Abrasion Value	la_abrasion_value	decimal	9 (19, 8)		No	Y
Test Method	test_method	nvarchar	100	DB-410-A	No	N ·
Tested By	tested_by	nvarchar	100	{full_name}	No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUE_DB410	A SAMPLE		Maximum Rows -	4	- Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Passing Sieve	passing_sieve	nvarchar	100		No	N
Retained Sieve	retained_sieve	nvarchar	100		No	N
Projected Weight	projected_weight	nvarchar	100		No	N
Actual Weight	actual_weight	decimal	9 (19, 8)		No	N
Within Range	within_range	Bit .	1	{1,0}	No	N

# Magnesium Sulfate Soundness – (DB-411-M)

1	Fast Rante						
	Table Name	VALUE DB411			laximum Rows	Demiled	* Data : Transfer
	Field Description	Field Name	Data Type	Length	Values	neganoa	N
į	Percent Loss Total	pct_loss_total	decimal	9 (19, 8)		No	14

Normalized Individual Percent Total	ni_pct_retained_total	decimal	9 (19, 8)		No	N
Weighted Average Percent Total	weighted_avg_pct_loss_total	decimal	9 (19, 8)		No	N
Soundness Loss	soundness_loss	decimal	9 (19, 8)		No	Υ
Test Method	test_method	nvarchar	100	DB-411-M	No	N
Tested By	tested_by	nvarchar	100	{full_name}	No	Υ
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ
Table Name	VALUE DB4	MM_CYCLE		- Maximum Fows /	5	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Cycle	cycle	nvarchar	5	{I, II, III, IV, V}	No	N
In Solution Date	in_solution_date	Smalldatetime	4.	MM/DD/YYYY	No	N
In Solution Time In	in_solution_time_in	Smalldatetime	4	HH:MM AM/PM	No	N
In Solution Time Out	in_solution_time_out	Smalldatetime	4	HH:MM AM/PM	No	N
Out Solution Date	out_solution_date	Smalldatetime	4	MM/DD/YYYY	No	N
Out Solution Time In	out_solution_time_in	Smalldatetime	4	HH:MM AM/PM	No	N
Out Solution Time Out	out_solution_time_out	Smalldatetime	4	HH:MM AM/PM	No	N
In Oven Date	in_oven_date	Smalldatetime	4	MM/DD/YYYY	No	N
In Oven Time In	in_oven_time_in	Smalldatetime	4	HH:MM AM/PM	No	N
In Oven Time Out	in_oven_time_out	Smalldatetime	4	HH:MM AM/PM	No	N
Out Oven Date	out_oven_date	Smalldatetime	4	MM/DD/YYYY	No	N
Out Oven Time In	out_oven_time_in	Smalldatetime	4	HH:MM AM/PM	No	N
Out Oven Time Out	out_oven_time_out	Smalldatetime	4	HH:MM AM/PM	No	N
Remarks	remarks	nvarchar	250		No	N
Table Name	VALUE DB41	M_PARTICLE		Maximum Rows	9 - 1 - 8 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Particle Size Passing	size_range_passing	nvarchar	100		No	N
Particle Size Retained	size_range_retained	nvarchar	100		No	N.
Initial Weight (g)	initial_weight	decimal	9 (19, 8)		No	N N
Final Weight (g)	final_weight	decimal	9 (19, 8)		No	N
Loss of Weight (g)	loss_of_weight	decimal	9 (19, 8)		No	N
Percent Loss	pct_loss	decimal	9 (19, 8)		No	N
Normalized Individual Percent Retained	ni_pct_retained	decimal	9 (19, 8)		No	N N
Weighted Average Percent Loss	weighted_avg_pct_loss	decimal	9 (19, 8)		No	I IV

### Deleterious Materials – (DB-413-A)

VANUE DRATTA Maximum Rows 1 Data
VALUE FORMAL DESCRIPTION ROLL OF THE PROPERTY
Table Name VALUE DB413A Maximum Hows Data
Table Name

Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sieve Size	sieve_size	nvarchar	100		No	Y
Total Weight of Sample	total_weight_sample	decimal	9 (19, 8)	•	No	. N
Weight of Deleterious Material (g) Clay	clay_value1	decimal	9 (19, 8)		No	N
Weight of Deleterious Material (g) Shale	shale_value1	decimal	9 (19, 8)		No	N
Weight of Deleterious Material (g) Friable	friable_value1	decimal	9 (19, 8)		No	N
Weight of Deleterious Material (g) Laminated	laminated_value1	decimal	9 (19, 8)	·	No	N
Weight of Deleterious Material (g) Other	other_value1	decimal	9 (19, 8)	•	No	N
Percent of Deleterious Material Clay	clay_value2	decimal	9 (19, 8)		No	Y
Percent of Deleterious Material Shale	shale_value2	decimal	9 (19, 8)		No	Y
Percent of Deleterious Material Friable	friable_value2	decimal	9 (19, 8)		No	Y
Percent of Deleterious Material Laminated	laminated_value2	decimal	9 (19, 8)	·	No	Υ.
Percent of Deleterious Material Other	other_value2	decimal	9 (19, 8)		No	Υ
Weight of Deleterious Material (g) Total	total	decimal	9 (19, 8)	:	No	N
Percent Deleterious Material Retained on the +No.4 Sieve	percent_deleterious_material_retained	decimal	9 (19, 8)		No	Υ.
Test Method	test_method	nvarchar	100	DB-413-M	No	N
Tested By	tested by	nvarchar	100	{full_name}	No	Y
Tested Date	tested date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int-	4		No	Y

### Field Form Concrete Sample - Cylinders - (DB-418-A)

Toei Rame		Harronnikonikonekekin	neis esti			
Table Name	VALUE <u>.</u>	DB418A		Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Truck Number	truck_number	nvarchar	100		No	N
Batch Size	batch_size	nvarchar	100		No	N
Sample Time	sample_time	nvarchar	100	HH:MM AM/PM	No	Y
Aggregate. Size	agg_size	nvarchar	100		No	N
Design Water	design_water	nvarchar	100		. No	N
Actual Water	actual_water	nvarchar	100		No	N
Batch Time	batch_time	nvarchar	100	HH:MM AM/PM	No	Y
Water Added	water_added	nvarchar	100		No	Y
Total Water	total water	nvarchar	100		No	Υ

Ticket Number	ticket_number	nvarchar	100		No	Υ.
Pump Slump Loss	pump_slump_loss	decimal	9 (19, 8)		No	N
Placement Slump	placement_slump	decimal	9 (19, 8)	see validator	No	N
Pump Air Loss	pump air loss	decimal	9 (19, 8)		No	N
Placement Air	placement_air	decimal	9 (19, 8)		No	N
Concrete Temperature	concrete_temperature	nvarchar	100		No .	Υ
Slump	slump	decimal	9 (19, 8)	{slump value}	No	Υ
Aggregate. Correction Factor	agg_correction_factor	nvarchar	100		No	N
Air Temperature	air_temperature	nvarchar	100	•	No	Υ
Unit Wt	unit_weight	nvarchar	100		No	N
Corrected Air Content	corrected_air_content	decimal	9 (19, 8)	•	No	N
Class of Concrete	class_of_concrete	nvarchar	100	{A, B, C, D, E, F, H, S, P, DC, CO, SS, K}	No	Υ
Reg. Strength	req_strength	nvarchar	100		No	Υ
Specimen Size	specimen_size	nvarchar	100	see validator	No	Υ
Mix ID	mix_ld	nvarchar	100		No	Υ
Test Method	test_method	nvarchar	100	DB-418-A	No	N
Tested By	tested by	nvarchar	100	{full_name}	No	Y
Tested Date	tested date	Smalldatetime	4	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUE_DB418A			- Maximum Rows	32.	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Average Age	average_age	nvarchar	100	{7, 28}	No	Y
Average Strength	average_strength	decimal	9 (19, 8)		No	Y
Average Required Strength	required_strength	decimal	9 (19, 8)		No	N
Average Pass/Fail	pass_fail	nvarchar	5	(Pass, Fail)	No	N
Table Name	VALUE_DB418A_S			Maximum Rows	7	Data
Field Description	Field Name		Length	Values	Required	Transfer
Specimen	specimen	nvarchar	100	{A,B,C,D,E,F}	No	Y
Test Date	test_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Age(Days)	age	nvarchar	100		No No	<del>                                     </del>
Area	area .	decimal	9 (19, 8)			<del>                                     </del>
Area Load(lbs)	load_lbs	decimal	9 (19, 8)		No No	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Strength(psi)	strength	decimal	9 (19, 8)	( 5 6 5 5	No No	<del>                                     </del>
Type Fracture	type_fracture	varchar	50	(A, B, C, D, E)	No No	N
Pass/Fail	pass_fail	nvarchar	5	{Pass, Fail}	No	<b>→</b>
Tested By	tested_by	nvarchar	100	{full_name}	INU	<u> </u>

### Determining Pavement Thickness by Direct Measurement – (DB-423-A)

Table Name	The part of the Westermining VALUE DI	<mark>Pavement Itioknes</mark> 3423A	Shybrect	Measurement Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Measure Unit	measure_unit	nvarchar	100	{Inches, Millimeters}	No	N
Pavement Depth	pavement_depth	decimal	9 (19, 8)		No	Y
Tested By	tested_by	nvarchar	100		No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUE DB423A	LOCATION		Maximum Rows =	2	Dala
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Measurement Identification / Location	measurement_id_location	nvarchar	100		No	N
Measurement 1	measurement_1	decimal	9 (19, 8)		No	N
Measurement 2	measurement_2	decimal	9 (19, 8)		No	N
Measurement 3	measurement_3	decimal	9 (19, 8)		No	N
Average	average	decimal	9 (19, 8)		No	<u> </u>

### Testing of Drilled Cores of Portland Cement Concrete – (DB-424-A)

garalisas sa <mark>pest Name</mark> Plakases		(adillettea estábleo				
Table Name	VALUE			Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Tested By	tested_by	nvarchar	100		No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y
Table Name	VALUE DB	124A CORE		Maximum Rows	4-7-5	· Data ·
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Core Number 1	core_number1	nvarchar	100		No	Y
Core Number 2	core_number2	nvarchar	100		No	Y
Core Diameter 1	core_diameter1	decimal	9 (19, 8)		No	Y
Core Diameter 2	core_diameter2	decimal	9 (19, 8)		No	Y
Core Length 1	core_length1	decimal	9 (19, 8)		No	Y
Core Length 2	core_length2	decimal	9 (19, 8)		No	Y
Maximum Load 1	max_load1	decimal	9 (19, 8)		No	Y
Maximum Load 2	max_load2	decimal	9 (19, 8)		No	Y
FailureType 1	failure_type1	nvarchar	100		No	Y
Failure Type 2	failure_type2	nvarchar	100		No	Y

Compressive Strength 1	compressive_strength1	decimal	9 (19, 8)		No	Y
Compressive Strength 2	compressive_strength2	decimal	9 (19, 8)		No .	Υ
Age	age	int	4	· ·	No	Υ
Average Compressive Strength	avg_compressive_strength	decimal	9 (19, 8)		No	Y

### Texture Depth by Sand Patch Method – (DB-436-A)

PROCESS CONTRAVENDED AND ACCOUNT	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT					
Table Name	VALUE_DI	3224F		Maximum Rows	1	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Measurement Number 1 Diameter	measurement_1	decimal	9 (19, 8)		No	N
Measurement Number 2 Diameter	measurement_2	decimal	9 (19, 8)		No	N
Measurement Number 3 Diameter	measurement_3	decimal	9 (19, 8)		No	N
Measurement Number 4 Diameter	measurement_4	decimal	9 (19, 8)		No	N
Volume of Cylinder	vol_cylinder	decimal	9 (19, 8)		Nó	N
Average Diameter	avg_diameter	decimal	9 (19, 8)		No	N ·
Thickness	thickness	decimal	9 (19, 8)		No	Υ
Tested By	tested_by	varchar	200		No	Y
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ

#### Concrete Sample - Beams - (DB-448-A)

Test Name  Table Name	TUTTER MARKET STATE TO THE VALUE		CONTRACTOR OF THE PROPERTY OF	Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Truck Number	truck_num	decimal	9 (19, 8)		No	N
Qty Load	qty_load	decimal	9 (19, 8)		No	N .
Sample Time	sample_time	Smalldatetime	4	HH:MM AM/PM	No	Υ
Agg. Size	agg_size	nvarchar	100	see validator	No	N
Destination Water	des_water	decimal	9 (19, 8)		No	N N
Actual Water	act_water	decimal	9 (19, 8)		No	N
Added Gal	added_gal	decimal	9 (19, 8)		No	Y.
Total Water	total_water	decimal	9 (19, 8)		No	. Y
Batch Time	batch time	Smalldatetime	4	HH:MM AM/PM	No	Y
Ticket Number	ticket_num	decimal	9 (19, 8)		No	Y
Concrete Temperature	concrete_temp	decimal	9 (19, 8)		No	Y

Air Temperature	air_temp	decimal	9 (19, 8)		No	Y
Slump	slump	decimal	9 (19, 8)	(slump value)	No	Υ
Unit Wt	unit_weight	decimal	9 (19, 8)		No	N
Aggregate Correction Factor	agg_corr_factor	decimal	9 (19, 8)		No	N
Corrected Air Content	corrected_air_content	decimal	9 (19, 8)		No	N
Class of Concrete	class_concrete	nvarchar	100		No	Υ
Specimen Dimensions	spec_dimensions	nvarchar	. 100	see validator	No	Υ
Required Strength	req_strength	decimal	9 (19, 8)		No	Y
Mix ID	mix_id	nvarchar	100		No	Y
Test Method	test_method	nvarchar	100	DB-448-A	No	N
Tested By	tested_by	nvarchar	100		No	Υ
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Υ
Table Name	VALUE_DB448A	ESPECIMEN		Maximum Rows	- 6	Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Specimen	specimen	nvarchar	100	$\{A,B,C,D,E,F\}$	No	Υ
Test Date	test_date	Smalldatetime	4	MM/DD/YYYY	No	Y
Age	age	nvarchar	100		No	Υ
Average Width	avg_width	decimal	9 (19, 8)		No	Y
Average Depth	avg_depth	decimal	9 (19, 8)		No	Υ
Maximum Load, lbs.	max_load_psi	decimal	9 (19, 8)		No	Y
Correction Factor	corr_factor	decimal	9 (19, 8)		No	Y
Mod. Of Rupture	mod_rupture	decimal	9 (19, 8)		No	Y
Pass/Fail	pass_fail	nvarchar	100	{Pass, Fail}	No	N
Tested By	tested_by	nvarchar	100		No	Y

### Coarse Aggregate Angularity by Fractured Faces Count – (DB-460-A)

gilles de la superioritation de la superiori	es: series en la serie de Conserações VALUE DBA	garekknevikkikke) Kark	WE LEADER CHIEF	Facestation (Company)		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Sieve Size	sieve_size	nvarchar	100		No	Y
Number of Particle w/ 2 or more FF	number_of_particles_with_two	int	4		No	Y
Number of Particles w/ one or no FF	number_of_particles_with_one	int	4		No	Y
Number of Questionable Particles	number_of_questionable_particles	int	4		No	<u> ү</u>
Total Number of Particles	total_number_of_particles	int	4		No	<u> </u>
Percent Crushed Particles	percent_crushed_particles	decimal	9 (19, 8)		No	Y
Total Percent Crushed Particles	percent_crushed_particles_result	decimal	9 (19, 8)		No	<u> </u>

Test Method	test_method	nvarchar	100	DB-460-A	No .	N
Tested By	tested_by	nvarchar	100		No	Υ
Tested Date	tested_date	Smalldatetime	4	MM/DD/YYYY	No	Υ
Stamp Code	stamp_code	int	4		No	Υ

## Effect of Water on Bituminous Paving Mixtures (boiling & stripping) - (DB-530-C)

sa s	estata processe estata de Eliccica i Walieria ins	ENTERNATION DE PROVINC	Mulgaluros (	ijeiting (steitijpijting) j		
Table Name	VALUE DE	3224F		Maximum Rows		Data
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Estimated Percent of Stripping	est pct stripping	nvarchar	100		No	Y
Tested By	tested by	nvarchar	100		No	Y
Tested Date	tested_date	datetime	8	MM/DD/YYYY	No	Y
Stamp Code	stamp_code	int	4		No	Y

### Determining Chloride and Sulfate Content in Soils – (DB-620-J)

reger and sest Name And And Table Name	Determining Chicride and Sulfate Conte			it Ingseilsvære. Maximum Rows	Data	
Field Description	Field Name	Data Type	Length	Values	Required	Transfer
Chloride (CI) (PPM)	chloride_ppm	decimal .	9 (19, 8)		No	Υ
Sulfate Crucible + Residue Weight	crucible_residue_weight	decimal	9 (19, 8)		No	Ń
Sulfate Crucible Weight	crucible_weight	decimal	9 (19, 8)	·	No	N ·
Chloride Ending	ending	decimal	9 (19, 8)		No	N
Normality of AgNO3	normality_of_agno3	decimal	9 (19, 8)		No	N
Sulfate Residue Weight	residue_weight	decimal	9 (19, 8)		No	N
Chloride Sample Weight	sample_weight_chloride	decimal	9 (19, 8)		No	N
Sulfate Sample Weight	sample_weight_sulfate	decimal	9 (19, 8)		No	. N
Stamp Code	stamp_code	int	4	•	No	Y
Chloride Starting	starting	decimal	9 (19, 8)		No	N
Sulfate (SO4) (PPM)	sulfate_ppm	decimal	9 (19, 8)		No	Y
Tested By	tested_by	nvarchar	100		No	Y
Tested Date	tested_date	nvarchar	100	MM/DD/YYYY	No	Y
Chloride Total	total	decimal	9 (19, 8)		No	N