Texas Department of Transportation
Technical Provisions

SH 183 Managed Lanes Project

Attachment 4-5
EPIC Sheets

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Revised: May 2012
Prepared by L. Petit of HNTB Corporation on 12/09/2013

I. STORMWATER POLLUTION PREVENTION PLAN-CLEAN WATER ACT SECTION 402

TPDES TXR 150000: Stormwater Discharge Permit or Construction General Permit required for projects with 1 or more acres disturbed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 1122.

1. Construction General Permit (CGP) requires storm water pollution prevention plan, notice of intent, and notice of termination be prepared for the proposed improvements.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000.
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Developer project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

USACE Permit required for filling, dredging, excavating or other work in any water bodies, rivers, creeks, streams, wetlands or wet areas. No equipment is allowed in any stream channel below the ordinary High Water Mark except on approved temporary stream crossings or drill pads.

The Developer must adhere to all of the terms and conditions associated with the following permit(s):

☒ No Permit Required

☐ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)

☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)

☐ Individual 404 Permit Required

☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List Waters of the US Permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

For Proposed Improvements
- No permanent or temporary Section 404 impacts are anticipated for the interim improvements based on the schematic.

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts (or as established by the Developer).

If design changes occur to the proposed project, a reassessment of potential impacts would be necessary. If impacts to potentially jurisdictional features are identified due to the Developer's methodologies or activities, the Developer would be responsible for obtaining the appropriate Section 404 permits.

REFER TO EPIC SHEET 2 OF 2 - LEFT COLUMN
FOR SECTION II - CONTINUATION
FOR BEST MANAGEMENT PRACTICES

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☐ No Action Required ☒ Required Action

Action No.

1. Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large areas of disturbed ground would be left bare for a considerable length of time. Seeding and replanting with TxDOT approved seeding specifications that is in compliance with Executive Order 13112 shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT.

☐ No Action Required ☒ Required Action

Action No.

1. The Developer shall comply with all state and federal laws and regulations as related to state and federal listed threatened and endangered species. Prior to construction, the Developer shall review the most current state and federal threatened and endangered species lists to determine if changes to the lists have occurred since the applicable NEPA Approvals. If changes to the lists have occurred, the Developer shall reassess the potential project impacts to the listed species and/or their habitat. The Developer shall take all appropriate actions to comply with applicable state and federal regulations. If it is determined that adverse effects to listed species will occur, the Developer shall work with TxDOT to develop mitigation approaches. The Developer shall prepare any materials needed for coordination or consultation with regulatory agencies, at TxDOT's direction. TxDOT will conduct coordination or consultation with the applicable state and federal agencies for the project. The Developer shall be responsible for any mitigation requirements identified from regulatory agency coordination/consultation.

2. Between October 1 and February 15, remove all old migratory bird nests from any structures that would be affected by the proposed project, and complete any bridge work and/or vegetation clearing. Between February 15 and October 1, the Developer would be prepared to prevent migratory birds from building nests. In the event that migratory birds are encountered on-site during project construction, adverse impacts on protected birds, active nests, eggs and/or young would be avoided. If species are present, work should cease at that location and TxDOT personnel should be contacted. If any active nests are found, the local USFWS biologist should be contacted by TxDOT to determine an appropriate plan of action.

REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN
FOR SECTION V - CONTINUATION
FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA
WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

LIST OF ABBREVIATIONS

BMP:	Best Management Practice	STA:	Stations
CDC:	Corridor Development Certificate	PCC:	Spill Prevention Control and Countermeasure
CGP:	Construction General Permit	SW3P:	Storm Water Pollution Prevention Plan
CSN:	Construction Site Notice	PCN:	Pre-Construction Notification
DSHS:	Texas Department of State Health Services	PSL:	Project Specific Location
EPA:	Environmental Protection Agency	TCEQ:	Texas Commission on Environmental Quality
FHWA:	Federal Highway Administration	TERP:	Texas Emissions Reduction Plan
ML:	Mainlanes	TPDES:	Texas Pollutant Discharge Elimination System
MOA:	Memorandum of Agreement	TPWD:	Texas Parks and Wildlife Department
MOU:	Memorandum of Understanding	TSS:	Total Suspended Solids
MS4:	Municipal Separate Stormwater Sewer System	TxDOT:	Texas Department of Transportation
NEPA:	National Environmental Policy Act	T&E:	Threatened and Endangered Species
NOT:	Notice of Termination	USACE:	U.S. Army Corp of Engineers
NWP:	Nationwide Permit	USFWS:	U.S. Fish and Wildlife Service
NOI:	Notice of Intent		

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropiate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Developer shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canisters, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☐ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notifiy DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☐ No Action Required ☒ Required Action

Action No.

1. The Developer shall comply with the recommendations of the limited phase i environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per TxDOT standard specifications. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. all construction materials used for this project would be removed as soon as the work schedules permit.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

REFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN
FOR SECTION VII - CONTINUATION
FOR OTHER ENVIRONMENTAL ISSUES

GENERAL NOTE:

Any change orders and/or deviations from the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearance may be required.

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LAST REVISION: MAY 2012

PREPARED FOR INTERIM IMPROVEMENTS

CONTROL-SECTION-JOB NUMBERS (CSJ's)
0581-02-077, 0581-02-128, 0581-02-911, 0094-03-116, 0094-03-976, 0581-02-124, 0094-03-060, 0196-03-137

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Dallas District Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 1 OF 2

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		LP 12
STATE	DISTRICT	COUNTY	
TEXAS	DALLAS	DALLAS	
CONTROL	SECTION	JOB	SHEET NO.
0581	02	077, etc.	

DRAFT-SUBJECT TO CHANGE

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Revised: May 2012
Prepared by L. Petit of HNTB Corporation on 12/09/2013

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404--(CONTINUATION FROM EPIC SHEET 1 OF 2)

Best Management Practices for applicable Section 401 General Conditions:

Erosion	Sedimentation	Post-Construction TSS
☒ Temporary Vegetation	☒ Silt Fence	☐ Vegetative Filter Strips
☐ Blankets/Matting	☒ Rock Berm	☐ Retention/Irrigation Systems
☒ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☒ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☒ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	

Refer also to the SW3P and Project General Notes for project specific Best Management Practices.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT. (CONTINUATION FROM EPIC SHEEET 1 OF 2)

Species Potentially within Project Area w/ Description	Habitat Description
1. Cave Myotis Bat: Relatively larger than typical Myotis. It can be distinguished by the presence of a conspicuous bare patch on its back. Its color is brown and it has short ears.	Cave-dwelling; also roosts in old buildings and under bridges; roosts in clusters of up to thousands of individuals; hibernates during winter, opportunistic insectivore.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

Special Note: The Migratory Bird Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade or transport any migratory bird, nest, young, feather or egg in part or in whole, without a federal permit issued in accordance within the Act's policies and regulations. The Developer would remove all old migratory bird nests from any structure where work would be done from October 1 to February 15. In addition, the Developer would be prepared to prevent migratory birds from building nest(s) between February 15 to October 1. In the event that migratory birds are encountered on-site during project construction, efforts to avoid adverse impacts on protected birds, active nests, eggs and/or young would be observed.

LIST OF ABBREVIATIONS

BMP: Best Management Practice
CDC: Corridor Development Certificate
CGP: Construction General Permit
CSN: Construction Site Notice
DSHS: Texas Department of State Health Services
EPA: Environmental Protection Agency
FHWA: Federal Highway Administration
ML: Mainlanes
MOA: Memorandum of Agreement
MOU: Memorandum of Understanding
MS4: Municipal Separate Stormwater Sewer System
NEPA: National Environmental Policy Act
NOT: Notice of Termination
NWP: Nationwide Permit
NOI: Notice of Intent
STA: Stations
PCC: Spill Prevention Control and Countermeasure
SW3P: Storm Water Pollution Prevention Plan
PCN: Pre-Construction Notification
PSL: Project Specific Location
TCEQ: Texas Commission on Environmental Quality
TERP: Texas Emissions Reduction Plan
TPDES: Texas Pollutant Discharge Elimination System
TPWD: Texas Parks and Wildlife Department
TSS: Total Suspended Solids
TxDOT: Texas Department of Transportation
T&E: Threatened and Endangered Species
USACE: U.S. Army Corp of Engineers
USFWS: U.S. Fish and Wildlife Service

VII. OTHER ENVIRONMENTAL ISSUES (CONTINUATION FROM EPIC SHEET 1 OF 2)

(includes regional issues such as Edwards Aquifer District, etc.)

☐ No Action Required ☒ Required Action

Action No.	
1. Water Quality	Runoff from this project discharges within 5 stream miles upstream of Segment 0802 of Upper Trinity River which is listed as threatened/impaired for PCB's and dioxins in edible tissue on the Texas 2012 303(d) list. Select appropriate BMP's to control the constituent of concern at this location.
2. MS4 Requirements	The proposed project is located within the boundaries of the Cities of Irving and Dallas and TxDOT's municipal separate storm sewer system (MS4) Phase I permits. Compliance with the applicable MS4 permit(s) is required.
3. Trinity River Corridor	Portions of the project cross the Trinity River Corridor; therefore a Corridor Development Certificate (CDC) is required. The Developer is responsible to coordinate and obtain the CDC.
4. Floodplains	Hydraulic design to be in accordance with TxDOT and FHWA design policy procedures. The proposed improvements would permit the conveyance of the design year flood, inundation of the roadway being acceptable, without causing substantial damage to the highway, stream or other property. The proposed project must not increase the base flood elevation to a level that would violate applicable floodplain regulations and ordinances. There is no change in commitment since the 2009 EA.
5. Construction Air Quality	Incorporate measures to control fugitive dust during construction such as covering or treating disturbed areas with dust suppression techniques, sprinkling, covering loaded trucks and other dust abatement controls as appropriate.
6. Construction Emissions Reduction Plan	The Texas Emissions Reduction Plan (TERP) includes incentive programs to encourage the development of multi-pollutant approaches to ensure that the air in Texas is both safe to breathe and meets minimum federal standards. TxDOT encourages Developers to utilize the TERP program to the fullest extent possible to minimize diesel emissions. Information about the TERP program can be found at http://www.tceq.state.us/implementation/air/terp/.
7. Construction Impacts	Developer to make every reasonable effort to minimize construction noise through abatement measures such as work-hour controls (i.e., minimization of nighttime construction at residential areas) and proper maintenance of muffler systems. Notify city and local safety officials of proposed road closures or detours. Detour timing and necessary rerouting of emergency vehicles would be coordinated with the proper local officials. Lane closures and detours are to comply with TxDOT requirements and the Manual of Uniform Traffic Control Devices.
8. Visual Resources/Aesthetics	TxDOT has begun discussions with local jurisdictions regarding aesthetic features and anticipates that the Developer will adhere to these aesthetic requirements.

GENERAL NOTE:
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LAST REVISION: MAY 2012

PREPARED FOR INTERIM IMPROVEMENTS

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ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 2 OF 2

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		LP 12
STATE	DISTRICT	COUNTY	
TEXAS	DALLAS	DALLAS	
CONTROL	SECTION	JOB	SHEET NO.
0581	02	077, etc.	

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1. Construction General Permit (CGP) requires storm water pollution prevention plan, notice of intent, and notice of termination be prepared for the proposed improvements.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000.
2. Comply with the SW3P and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and TCEQ, EPA or other inspectors.
4. When Developer project specific locations (PSL's) increase disturbed soil area to 5 acres or more, submit NOI to TCEQ and the Engineer.

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

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☒ Nationwide Permit 14 - PCN not Required (less than 1/10th acre waters or wetlands affected)

☐ Nationwide Permit 14 - PCN Required (1/10 to <1/2 acre, 1/3 in tidal waters)

☐ Individual 404 Permit Required

☐ Other Nationwide Permit Required: NWP# _____

Required Actions: List Waters of the US Permit applies to, location in project and check Best Management Practices planned to control erosion, sedimentation and post-project TSS.

Permit	Waters of the US		Approx location ML STA
NWP 14	Site 3	Tributary to Grapevine Creek	SH 114 STA 599+00
NWP 14	Site 8	South Fork Creek	SH 114 STA 775+00 TO 781+00
NWP 14	Site 9	Tributary to Hackberry Creek	SH 114 STA 839+50
NWP 14	Site 10	Cottonwood Branch	SH 114 STA 860+50 TO 862+00

The elevation of the ordinary high water marks of any areas requiring work to be performed in the waters of the US requiring the use of a nationwide permit can be found on the Bridge Layouts (or as established by the Developer).

If design changes occur to the proposed project, a reassessment of potential impacts would be necessary. If impacts to potentially jurisdictional features are identified due to the Developer's methodologies or activities, the Developer would be responsible for obtaining the appropriate Section 404 permits.

REFER TO EPIC SHEET 2 OF 2 - LEFT COLUMN
FOR SECTION II - CONTINUATION
FOR BEST MANAGEMENT PRACTICES

III. CULTURAL RESOURCES

Refer to TxDOT Standard Specifications in the event historical issues or archeological artifacts are found during construction. Upon discovery of archeological artifacts (bones, burnt rock, flint, pottery, etc.) cease work in the immediate area and contact the Engineer immediately.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

IV. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☐ No Action Required ☒ Required Action

Action No.

1. Restore and stabilize disturbed areas as soon as the construction schedule permits. Consider temporary seeding where large areas of disturbed ground would be left bare for a considerable length of time. Seeding and replanting with TxDOT approved seeding specifications that is in compliance with Executive Order 13112 shall be done where possible.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT.

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Action No.

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REFER TO EPIC SHEET 2 OF 2 - MIDDLE COLUMN
FOR SECTION V - CONTINUATION
FOR LIST OF SPECIES POTENTIALLY WITHIN PROJECT AREA
WITH HABITAT DESCRIPTION AND ADDITIONAL ACTIONS

LIST OF ABBREVIATIONS

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CGP: Construction General Permit
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VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

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* Trash piles, drums, canisters, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Does the project involve any bridge class structure rehabilitation(s) or replacement(s) (bridge class structures not including box culverts)?

☐ Yes ☒ No

If "No", then no further action is required.
If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

☐ Yes ☐ No

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notifiy DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

☐ No Action Required ☒ Required Action

Action No.

1. The Developer shall comply with the recommendations of the limited Phase 1 environmental site assessment completed for the SH 183 Managed Lanes Project.

2. Any unanticipated hazardous materials encountered during construction would be handled according to applicable federal, state, and local regulations per TxDOT standard specifications. The Developer would take appropriate measures to prevent, minimize, and control the spill of hazardous materials in the construction staging area. all construction materials used for this project would be removed as soon as the work schedules permit.

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

REFER TO EPIC SHEET 2 OF 2 - RIGHT COLUMN
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FOR OTHER ENVIRONMENTAL ISSUES

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ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 1 OF 2

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
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STATE	DISTRICT	COUNTY	
TEXAS	DALLAS	DALLAS	
CONTROL	SECTION	JOB	SHEET NO.
0353	04	056, etc.	

DRAFT-SUBJECT TO CHANGE

DISCLAIMER:
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Notes To Designer:
1. Do not alter Sheet Design or Font style,size or weight - match text attributes.
2. If additional space is needed for a numbered section,fence and adjust sections up or down as needed for proportioning and readability but do not relocate from its relative position.
3. All areas should be addressed thoroughly and verify the necessary pay items are set up to support actions needed.

Revised: May 2012
Prepared by L. Perritt of HNTB Corporation on 12/09/2013

II. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404--(CONTINUATION FROM EPIC SHEET 1 OF 2)

Best Management Practices for applicable Section 401 General Conditions:

Erosion	Sedimentation	Post-Construction TSS
☒ Temporary Vegetation	☒ Silt Fence	☐ Vegetative Filter Strips
☐ Blankets/Matting	☒ Rock Berm	☐ Retention/Irrigation Systems
☒ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☒ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☒ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	

Refer also to the SW3P and Project General Notes for project specific Best Management Practices.

V. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS TREATY ACT. (CONTINUATION FROM EPIC SHEEET 1 OF 2)

Species Potentially within Project Area w/ Description	Habitat Description
1. Henslow's Sparrow: Adults have streaked brown upperparts with a light brown breast with streaks, a white belly and a white throat. Have a pale stripe on the crown with a dark stripe on each side, an olive face and neck, rust-colored wings and short dark forked tail.	Wintering individuals (not flocks) found in weedy fields or cut-over areas where lots of bunch grasses occur along with vines and brambles; a key component is bare ground for running/walking.
2. Western Burrowing Owl: Distinctive long legs, a short tail, and very serious-looking eyes. Lacks ear tufts. Feathers are sandy brown color above, while breast area is beige with spotted bars.	Open grasslands, especially prairie, plains, and savanna, sometimes in open areas such as vacant lots near human habitation or airports; nests and roosts in abandoned burrows.
3. Cave Myotis Bat: Relatively larger than typical Myotis. It can be distinguished by the presence of a conspicuous bare patch on its back. Its color is brown and it has short ears.	Cave-dwelling; also roosts in old buildings and under bridges; roosts in clusters of up to thousands of individuals; hibernates during winter, opportunistic insectivore.
4. Plains Spotted Skunk: Small, slender mammal with short legs and black tail with prominent, long hairs. Skunk is black overall with narrow, white stripes and spots. Four stripes on the neck, back and sides run from the head to the middle of body. There is a white spot on the forehead and in front of each ear.	Catholic; open fields, prairies, croplands,fence rows, farmyards, forest edges, and woodlands; prefers wooded, brushy areas and tallgrass prairie.
5. Mussels (Fawnsfoot, Little Spectaclecase, Louisiana pigtoe, Texas heelsplitter, Wabash pigtoe):Adult can range from approximately 1-inch to 12-inches in length. Some species have thin shells and shells vary both on the inside and outside of mussels, depending on species. Color, texture and shape variations in shells are used to help identify types of mussels.	Small and large rivers especially on sand, mud, rocky mud and sand and gravel, also still to swiftly flowing waters.
6. Texas Garter Snake: A small to medium sized terrestrial snake that can grow to about 39-48 inches long. Their backs are green to black, with a distictive stripe of red or orange and either side features yellowish stripes.	Wet or moist microhabitats are conducive to the species occurrence, but the snake is not necessarily restricted to them; hibernates underground or in or under surface cover; breeds March-August

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

Special Note: The Migratory Bird Act of 1918 states that it is unlawful to kill, capture, collect, possess, buy, sell, trade or transport any migratory bird, nest, young, feather or egg in part or in whole, without a federal permit issued in accordance within the Act's policies and regulations. The Developer would remove all old migratory bird nests from any structure where work would be done from October 1 to February 15. In addition, the Developer would be prepared to prevent migratory birds from building nest(s) between February 15 to October 1. In the event that migratory birds are encountered on-site during project construction, efforts to avoid adverse impacts on protected birds, active nests, eggs and/or young would be observed.

LIST OF ABBREVIATIONS

BMP: Best Management Practice
CDC: Corridor Development Certificate
CGP: Construction General Permit
CSN: Construction Site Notice
DSHS: Texas Department of State Health Services
EPA: Environmental Protection Agency
FHWA: Federal Highway Administration
ML: Mainlanes
MOA: Memorandum of Agreement
MOU: Memorandum of Understanding
MS4: Municipal Separate Stormwater Sewer System
NEPA: National Environmental Policy Act
NOT: Notice of Termination
NWP: Nationwide Permit
NOI: Notice of Intent
STA: Stations
PCC: Spill Prevention Control and Countermeasure
SW3P: Storm Water Pollution Prevention Plan
PCN: Pre-Construction Notification
PSL: Project Specific Location
TCEQ: Texas Commission on Environmental Quality
TERP: Texas Emissions Reduction Plan
TPDES: Texas Pollutant Discharge Elimination System
TPWD: Texas Parks and Wildlife Department
TSS: Total Suspended Solids
TxDOT: Texas Department of Transportation
T&E: Threatened and Endangered Species
USACE: U.S. Army Corp of Engineers
USFWS: U.S. Fish and Wildlife Service

VII. OTHER ENVIRONMENTAL ISSUES (CONTINUATION FROM EPIC SHEET 1 OF 2)

(includes regional issues such as Edwards Aquifer District, etc.)

☐ No Action Required ☒ Required Action

Action No.	
1. Water Quality	Runoff from this project discharges within 5 stream miles upstream of Segment 0802 of Upper Trinity River which is listed as threatened/impaired for PCB's and dioxins in edible tissue on the Texas 2012 303(d) list. Select appropriate BMP's to control the constituent of concern at this location.
2. MS4 Requirements	The proposed project is located within the boundaries of the Cities of Irving and Dallas and TxDOT's municipal separate storm sewer system (MS4) Phase I permits. Compliance with the applicable MS4 permit(s) is required.
3. Trinity River Corridor	Portions of the project cross the Trinity River Corridor; therefore a Corridor Development Certificate (CDC) is required. The Developer is responsible to coordinate and obtain the CDC.
4. Floodplains	Hydraulic design to be in accordance with TxDOT and FHWA design policy procedures. The proposed improvements would permit the conveyance of the design year flood, inundation of the roadway being acceptable, without causing substantial damage to the highway, stream or other property. The proposed project must not increase the base flood elevation to a level that would violate applicable floodplain regulations and ordinances. There is no change in commitment since the 2009 EA.
5. Construction Air Quality	Incorporate measures to control fugitive dust during construction such as covering or treating disturbed areas with dust suppression techniques, sprinkling, covering loaded trucks and other dust abatement controls as appropriate.
6. Construction Emissions Reduction Plan	The Texas Emissions Reduction Plan (TERP) includes incentive programs to encourage the development of multi-pollutant approaches to ensure that the air in Texas is both safe to breathe and meets minimum federal standards. TxDOT encourages Developers to utilize the TERP program to the fullest extent possible to minimize diesel emissions. Information about the TERP program can be found at http://www.tceq.state.us/implementation/air/terp/.
7. Construction Impacts	Developer to make every reasonable effort to minimize construction noise through abatement measures such as work-hour controls (i.e., minimization of nighttime construction at residential areas) and proper maintenance of muffler systems. Notify city and local safety officials of proposed road closures or detours. Detour timing and necessary rerouting of emergency vehicles would be coordinated with the proper local officials. Lane closures and detours are to comply with TxDOT requirements and the Manual of Uniform Traffic Control Devices.
8. Visual Resources/Aesthetics	TxDOT has begun discussions with local jurisdictions regarding aesthetic features and anticipates that the Developer will adhere to these aesthetic requirements.

GENERAL NOTE:
Any change orders and/or deviations from the final design must be reported to the Engineer prior to commencement of construction activities, as additional environmental clearance may be required.

This document is released for informational purposes and is subject to change based on comments from approving agencies and public input. It is not to be used for construction purposes.

LAST REVISION: MAY 2012

CONTROL-SECTION-JOB NUMBERS (CSJ's)
0353-04-056, 0353-04-907, 0353-06-025, 0353-06-905, 0353-06-054, 0353-06-906, 0581-02-128, and 0581-02-911 (former 0581-02-121)

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Dallas District Standard

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (EPIC)

SHEET 2 OF 2

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	SEE TITLE SHEET		SH 114
STATE	DISTRICT	COUNTY	
TEXAS	DALLAS	DALLAS	SHEET NO.
CONTROL	SECTION	JOB	
0353	04	056, etc.	

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