

**Supplemental Environmental Assessment
Civil Works, Minor Section 408 NEPA Compliance
U.S. Army Corps of Engineers Fort Worth District
Carleton Development's Storm Drain and Access Roads**

April, 2014

DRAFT FINDING OF NO SIGNIFICANT IMPACT

SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT CIVIL WORKS, MINOR SECTION 408 NEPA COMPLIANCE U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT CARLETON DEVELOPMENT'S STORM DRAIN AND ACCESS ROADS

Description of Action: The United States Army Corps of Engineers (USACE) evaluated a proposed 33 U.S.C. Section 408 request for the construction of an outfall structure that is necessary to allow for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The Proposed Action would include the installation of an outfall structure and piping to the West Fork Trinity River and the construction of a permanent access road and temporary access road. This outfall structure will provide drainage for the Trinity Bluffs' multi-family development project.

The outfall structure will be constructed within the floodplain maintenance easement along the West Fork Trinity River. The piping and access roads will be constructed in the Tarrant County Water Control and Improvement District #1's Sewage and Flowage easements. The permanent access road will be constructed to provide an access route to the stormceptor. The Proposed Action, one outfall structure and associated piping and access roads, minimizes the impact to the existing vegetation on the bluff. Trinity River Association (TRA) requires the outfall structure to be located a minimum of 3-feet below the normal water surface elevation, which minimizes disturbance to the river bank.

Anticipated Environmental Effects: The SEA considered three alternatives, including the no action. No significant adverse direct, indirect, or cumulative impacts to the human and natural environment associated with implementation of the proposed action are identified. The Bluff, a Traditional Cultural Property important to the founding of the City of Fort Worth, is eligible for the National Register of Historic Places. The impact of the proposed action on the Bluff is not an adverse effect and the finding was concurred by the Texas Historical Commission in a letter dated March 18, 2014. There are no anticipated impacts to habitat for threatened or endangered species, and all impacts to wetlands and waters of the United States would be minimal and fall within the limits of Regional General Permit 12 - Modification and Alterations of Corps of Engineers Projects in compliance with Section 404 of the Clean Water Act. This action does not require a pre-construction notification or compensatory mitigation under Section 404. The proposed action would result in impacts to both grassland and riparian woodland vegetation.

Approximately 36 trees (six-inches and larger diameter at breast height) would be removed to construct the piping associated with the outfall structure and the access roads. The disturbance area is proposed to be sodded post-construction to restore the vegetation grassland community to pre-construction conditions. The deciduous forest vegetation would be revegetated following construction. Pre-construction contours will be restored following construction.

Conclusions: Based on a review of the information contained in this SEA, it is determined that the implementation of the proposed action is not a major federal action that would significantly affect the quality of the human environment within the meaning of Section 102(2)(c) of the National Environmental Policy Act of 1969, as amended. Therefore, the preparation of an Environmental Impact Statement is not required.

Charles H. Klinge
Colonel, U.S. Army
Commanding

Date

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1.0 INTRODUCTION

Carleton-Trinity Bluffs, Ltd. is submitting the proposed project, Carleton Development's Storm Drain and Temporary Access Road, as a future minor 408 request for National Environmental Policy Act (NEPA) compliance under the Programmatic Environmental Assessment (PEA).

This document is a Supplemental Environmental Assessment (SEA) to the PEA entitled *Civil Works Minor Section 408 NEPA Compliance, United States Army Corps of Engineers (USACE), Fort Worth District*, dated April 11, 2011. The PEA received a Finding of No Significant Impact (FONSI) on April 15, 2011. The PEA is posted on the Fort Worth District's website www.usace.army.mil.

The purpose of the PEA was to evaluate known minor Section 408 requests and future minor Section 408 requests on properties of USACE Public Works projects located within the USACE Fort Worth District Civil Works boundaries. Due to the high demand and increasing interest of non-federal entities proposing alterations within USACE Public Works boundaries, USACE found it necessary to prepare the PEA to address NEPA compliance for minor Section 408 requests on completed USACE Public Works projects to further the Federal review and approval process.

This document provides information on a project that will require alterations to Tarrant County Water Control and Improvement District #1's flowage and sewage easements. These easements are USACE Public Works projects, and a floodplain maintenance easement along the West Fork Trinity River, which was not included in the PEA. In accordance with 33 USC Section 408, any alteration of a USACE Public Works project will require USACE review and approval to ensure that the alteration does not adversely impact the USACE Public Works. Furthermore, 33 CFR Section 230, Procedures for Implementing NEPA (Engineering Regulation 200-2-2), stipulates that a NEPA document must be prepared to address the impacts to the environment as a result of the Federal action. All requests for alterations to a USACE Public Works project are submitted by the non-Federal sponsor.

The PEA identified five criteria that, if met, would prevent the need for additional NEPA documentation on future minor Section 408 requests:

1. Primary vegetative impact must consist of grasslands with no riparian bottomland forest impacted,
2. No impacts to federal mitigation areas and/or lands specified as ecosystem restoration.
3. Impacts to waters of the U.S. would have to meet the requirements of a Nationwide or Regional General Permit,
4. No significant impacts to threatened or endangered species will be allowed to ensure Endangered Species Act (ESA),
5. No significant impacts to cultural resources will be allowed.

The Proposed Action that this SEA addresses meets all but one of these criteria. The project will impact forest vegetation. The PEA states that if the proposed minor Section 408 request does not

meet the five categories, then a supplemental EA or EIS would be required. The preparation of this SEA is required to construct the proposed project.

1.1 PURPOSE AND NEED

Carleton-Trinity Bluffs, Ltd. proposes to build a 2.05-acre multi-family residential development to meet the residential needs of this rapidly growing area. A proposed outfall structure is necessary to provide safe drainage from the proposed Trinity Bluffs' multi-family development project. The outfall structure is necessary to allow for the storm water drainage system of this project to drain as designed. The most direct drainage route is west of the development, to the east bank of the West Fork Trinity River. The proposed project triggers the SEA because the construction of the proposed storm water drain piping and associated access road will permanently clear vegetation within the right of way. A temporary access road is proposed, providing temporary access to the proposed multi-family development east of the Tarrant County Water Control and Improvement District # 1's easements.

The Proposed Action will include the construction of one storm drain, associated piping, permanent access road to stormceptor, and a temporary access road located on the east bank of the West Fork Trinity River, just west of Samuels Ave in Fort Worth, Texas (Appendix A, Sheet 1 of 8). The project (Proposed Action) must provide for safe drainage of storm water discharge. The outfall structure was part of the drainage plan for the Trinity Bluffs' multi-family development throughout the planning and design process. The Proposed Action's objectives are to provide safe storm water drainage, minimize potential environmental damage, and minimize maintenance of the proposed structures.

1.2 SCOPE

The scope of the SEA is to evaluate the Section 408 request to install an outfall structure, piping, and temporary access road on the east bank of the West Fork Trinity River which will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements which runs along the east bank of the river. Carleton-Trinity Bluffs, Ltd. did not conduct scoping or public involvement activities for the SEA. This SEA relied on PEAs scoping and public involvement activities. This document will be available for public review as a part of the process. Public involvement is discussed further in Section 8 of this report.

2.0 DESCRIPTION OF ALTERNATIVES

The No Action and the Proposed Action are the only two reasonable alternatives for this project.

2.1 ALTERNATIVE 1- NO ACTION

The No Action alternative would not meet the needs of the Trinity Bluff's multi-family residential development. The multi-family development would not drain excess storm water. This situation is not desirable and is potentially unsafe for residents and adjacent residential areas to the project area. Due to the drastic proposed elevation changes

between the development and the West Fork Trinity River, the No Action alternative would create an overland flow, likely hazardous conditions. Additionally, excess storm water may promote a health hazard (e.g., mosquitoes).

The No Action alternative would not allow for the installation of the outfall structure, piping and access roads on the east bank of the West Fork Trinity River. If the outfall structure is not constructed the storm water drainage system for the multi-family development would not function as designed. The proposed development and adjacent residential areas could flood and flood waters could flow overland until they reached the West Fork Trinity River.

2.2 ALTERNATIVE 2- TWO OUTFALL STRUCTURES

Preliminary discussions considered installing two outfall structures discharging into the West Fork Trinity River. One outfall structure was proposed on the northern portion of the project and the second on the southern portion. This alternative is not the least environmentally damaging alternative and would result in more maintenance than the Proposed Action. This alternative was rejected because it does not meet the project's objectives.

2.3 ALTERNATIVE 3- PROPOSED ACTION

The Proposed Action would include the installation of an outfall structure and piping to the West Fork Trinity River and the construction of a permanent access road and temporary access road (Sheet 2 of 8 in Appendix A). This outfall structure will provide drainage for the Trinity Buff's multi-family development project. The piping connecting the outfall structure to the proposed development and access road would cross Tarrant County Water Control and Improvement District #1's Sewage and Flowage easements along the West Fork Trinity River.

The outfall structure will consist of a 24-inch diameter reinforced concrete pipe (RCP) (Appendix A, Sheet 6 through 8 of 8). The outfall structure will be placed below the normal water elevation.

The outfall structure will be constructed within the floodplain maintenance easement along the West Fork Trinity River. The piping and access roads will be constructed in the Tarrant County Water Control and Improvement District #1's Sewage and Flowage easements. The permanent access road will be constructed to provide an access route to the stormceptor. The Proposed Action, one outfall structure and associated piping and access roads, minimizes the impact to the existing vegetation on the bluff. Trinity River Association (TRA) requires the outfall structure to be located a minimum of 3-feet below the normal water surface elevation, which is why minimal disturbance to the river bank is proposed.

3.0 AFFECTED ENVIRONMENT

The existing conditions and affected environment of the proposed study area were assessed to determine the potential environmental consequences.

3.1 SETTING

The proposed project is surrounded by land that is planned as mixed-use development. The project area is currently zoned as Planned Development. The project is within the Tarrant County Water Control and Improvement District #1's Sewage and Flowage easements. The storm water pipe and outfall structure will be located within the Floodplain Maintenance easement. The project area is comprised of 50 percent deciduous forest, 40 percent grassland and 10 percent riparian vegetation community.

3.2 SOCIOECONOMIC RESOURCES

According to the U.S. Census data for 2010, the project area is located in Census Tract 1232, Block Group 1, Block 1143. The median household income within this Census Tract 1232 is \$38,631. There are a total of 478 people that live in Block 1143 with 24.9 percent of the population consisting of minorities (2.5 percent Black/African American, 19.9 percent Hispanic, 1.5 percent Asian, 0.2 percent American Indian/ Alaska Native, and 0.2 percent other).

3.3 HAZARDOUS MATERIALS

No hazardous, toxic, or radioactive waste (HTRW) is anticipated within the project area. Field observations were made during the preparation of this document and no evidence of past contamination was observed.

3.4 NOISE AND AESTHETICS

The construction of the outfall structure, piping and access roads will likely take one to three weeks. Noise and aesthetic concerns associated would be a factor during the time of construction. Heavy machinery would be used to clear vegetation and dig the trench to install the piping for the outfall structure.

3.5 AQUATIC RESOURCES

3.5.1 SURFACE WATER

Surface water associated with the project area is the West Fork Trinity River. The outfall structure will be located below the 100-year floodplain (Appendix A, Sheet 3 of 8).

3.5.2 GROUNDWATER

The project area is located within the Trinity (subcrop) Aquifer (Hayes, 2009) and located in the Trinity River Basin and the Lower West Fork Trinity Sub-Basin (Hayes, 2004).

3.5.3 WETLANDS AND WATERS OF THE U.S.

Wetlands were not observed within the project area. The West Fork Trinity River is located within the project area and would be classified as a water of the U.S. The West Fork Trinity River is considered a perennial stream. The banks of the West Fork Trinity, within the project area, are dominated by western ragweed (*Ambrosia psilostachya*), Bermudagrass (*Cynodon dactylon*) and prostrate knotweed (*Polygonum aviculare*).

3.6 BIOLOGICAL RESOURCES

3.6.1 VEGETATION

The vegetation within the project area consists of grassland, riparian and deciduous forest communities. The proposed storm water outfall structure is located within the grassland and riparian vegetation community. The existing grassland vegetation is maintained on a regular basis and is dominated by Bermudagrass, western soapberry saplings (*Sapindus saponaria* var. *drummondii*), Johnsongrass (*Sorghum halepense*) and switch grass (*Panicum virgatum*). The riparian vegetation associated with storm water outfall structure consisted of western ragweed, prostrate knotweed, trumpet creeper (*Campsis radicans*), button bush (*Cephalanthus occidentalis*) and red mulberry (*Morus rubra*).

The access roads and piping associated with the storm water outfall structure is located within the deciduous forest vegetation community. The deciduous forest has an understory dominated by Canadian wildrye (*Elyleymus hirtiflorus*), Chinese privet (*Ligustrum sinensis*), western soapberry and greenbrier (*Smilax rotundifolia*). The understory consisted of 40 percent vegetation cover, 55 percent natural forest litter, and five percent residential trash. The overstory is dominated by hackberry (*Celtis laevigata*), chinaberry (*Melia azedarach*) and cedar elm (*Ulmus crassifolia*). The average diameter at breast height (DBH) of the overstory trees was four-inches.

3.6.2 FISH AND WILDLIFE SPECIES

Fish and wildlife species found within the project area would be similar to that described in the PEA.

3.6.3 THREATENED AND ENDANGERED SPECIES

The U.S. Fish and Wildlife Service (USFWS) list two species within Tarrant County as endangered. These species are the interior least tern (*Sterna antillarum*) and whooping crane (*Grus americana*) (USFWS, 2013).

Interior least terns nest in colonies along sand and gravel bars located near bodies of water. Their diet includes small fish and aquatic crustaceans. When these birds are breeding they will forage within a few hundred feet of the nesting colony (TPWD, 2013). Whooping cranes are a potential migrant throughout most of Texas.

There are no designated critical habitats present for the federally listed species within the project area. These federally listed bird species were not observed within the project area. This proposed project is not expected to have any effect on these listed species.

3.7 AIR QUALITY

The proposed project is located within the nine-county Dallas/Fort Worth nonattainment area. The General Conformity Determination described in PEA would apply to the proposed project. The only difference from the PEA is the 2008 eight-hour ozone standard designation. A ten-county Dallas/Fort Worth area was designated nonattainment and classified moderate under the 2008 eight-hour ozone National Ambient Air Quality Standards (NAAQS), effective July 20, 2013 (77 FR 30088). The Dallas Fort Worth area includes the nine counties that were designated under the 1997 eight-hour ozone standards in addition to Wise County. The attainment deadline for the Dallas Fort Worth moderate attainment area was December 31, 2008.

3.8 CLIMATE

The climate for the state of Texas for this proposed project is similar to what is described in the PEA.

3.9 CULTURAL RESOURCES

The proposed project's area of potential effect (APE) is limited to the footprint of the project, seen on Sheet 3 of 8 in Appendix A. The APE is defined by the extent of construction. Kimley-Horn staff verified the presence of the Trinity River Bluff, a Traditional Cultural Property (TCP), in the APE. The Trinity River Bluff is assessed as a TCP, which is defined as "a historic property whose significance derives from the role the property plays in a community's historically rooted beliefs, customs, and practices" (Prior, 2009). The bluff begins at the beginning of the project's footprint and terminates at the water front. The project does not propose to adversely affect the bluff. Proposed impacts are limited to dirt moving activities, construction of a temporary access road and removal of vegetation. No historic resources are known to be present in the proposed outfall structure's locations. Consultation with Texas Historical Commission indicated

that the no additional archeological survey is required. If previously unrecorded archeological resources are encountered during construction, work should stop in the area and Texas Historical Commission and the U.S. Army Corps of Engineers Fort Worth District should be notified.

3.10 RECREATION

No designated recreation areas are located within the project area. The project will not result in impacts to recreation.

4.0 ENVIRONMENTAL CONSEQUENCES

This section describes the environmental consequences associated with each alternative that is considered under this SEA.

4.1 SOCIOECONOMIC RESOURCES

4.1.1 NO ACTION

Implementing the No Action alternative would result in no impacts to minorities or low-income populations.

4.1.2 PROPOSED ACTION

The Proposed Action would not result in any adverse impacts on the surrounding community. The census tract that the Proposed Action falls within is above the 2013 Department of Health and Human Services (HHS) poverty guidelines of \$23,550. The proposed project would not restrict access to any surrounding existing public or community service facilities. While minority and low income population could be affected by the Proposed Action, there would not be any adverse effects to these populations.

4.2 HAZARDOUS MATERIALS

4.2.1 NO ACTION

Implementing the No Action alternative would result in no impacts to hazardous materials.

4.2.2 PROPOSED ACTION

The Proposed Action would not result in any impacts related to hazardous materials. If, during the construction of the outfall structure, piping and the access road, any hazardous materials are discovered, construction will immediately cease and hazardous materials will be classified, removed, and properly disposed of before construction continues in that area.

4.3 NOISE AND AESTHETICS

4.3.1 NO ACTION

Implementing the No Action alternative would result in no impacts from noise or the visual aspect of the area.

4.3.2 PROPOSED ACTION

The Proposed Action will result in temporary impacts to the noise and visual aspect of the area. The impacts would only be temporary and occur during the time of construction. Construction will occur over a one- to three-week period. Construction would only occur during daylight hours when loud noises are more tolerable.

Heavy machinery and storage of materials will be necessary during construction. This would temporarily affect the aesthetics within the project area. Once construction is complete the area will be returned to pre-construction contours. The permanent access road will result in permanent clearing of vegetation within the right of way. The temporary access road will be revegetated with herbaceous species.

4.4 AQUATIC RESOURCES

4.4.1 SURFACE WATER

4.4.1.1 NO ACTION

Implementing the No Action alternative would result in no impacts to surface water.

4.4.1.2 PROPOSED ACTION

The Proposed Action would result in direct impacts to the West Fork Trinity River as a result of the outfall structure. The outfall structure will be located below the normal water elevation of the West Fork Trinity River. Impacts from the outfall structure will be limited to minimum necessary for construction and would fall within the impact threshold for use of a Regional General Permit 12.

4.4.2 GROUNDWATER

4.4.2.1 NO ACTION

Implementing the No Action alternative would result in no impacts to groundwater.

4.4.2.2 PROPOSED ACTION

The Proposed Action would result in minimal to non-existent impacts to groundwater resources. The outfall structure and storm water line would be installed through an open-cut method close to the existing ground surface. No horizontal drilling or other techniques that have been associated with groundwater impacts would occur.

4.4.3 WETLANDS AND WATERS OF THE U.S.

4.4.3.1 NO ACTION

Implementing the No Action alternative would result in no impacts to wetlands and waters of the U.S.

4.4.3.2 PROPOSED ACTION

The Proposed Action would result in temporary impacts to 0.003-acres of waters of the U.S. The discharges at this location would not impact wetlands or other special aquatic sites. The impacts from the outfall structure would be authorized under Regional General Permit 12 for Modification and Alteration of Corps of Engineers Projects. The Proposed Action would not impact Section 10 waters.

4.5 **BIOLOGICAL RESOURCES**

4.5.1 VEGETATION

4.5.1.1 NO ACTION

Implementing the No Action alternative would result in no impacts to vegetation.

4.5.1.2 PROPOSED ACTION

The Proposed Action would result in impacts to the grassland, riparian, and deciduous forest vegetation communities. Impacts to grassland would be temporary. The existing grassland vegetation is dominated by bermudagrass, which is maintained on a regular basis. Impacts to the deciduous forest vegetation community will be temporary. The deciduous forest vegetation would be revegetated following construction. Pre-construction contours will be restored following construction.

Approximately 36 trees (six-inches and larger diameter at breast height) would be removed to construct the piping associated with the outfall structure and the access roads.

4.5.2 FISH AND WILDLIFE SPECIES

4.5.2.1 NO ACTION

Implementing the No Action alternative would result in no impacts to fish and wildlife species.

4.5.2.2 PROPOSED ACTION

The Proposed Action will result in minimal impacts to fish and wildlife species. The impacts to fish and wildlife species would be similar to the impacts described in the PEA. The PEA states that projects “located within urban environments with typical fish and wildlife species adapted to urban activities and surroundings. Since the fish and wildlife species have adapted to the present conditions and the proposed alterations would not significantly alter that condition, and impacts to wildlife and their habitats would be temporary in nature and limited to the construction phase.”

4.5.3 THREATENED AND ENDANGERED SPECIES

4.5.3.1 NO ACTION

Implementing the No Action alternative would result in no impacts to threatened and endangered species.

4.5.3.2 PROPOSED ACTION

Due to the urban location of the project area, on-going disturbance, fragmented and altered habitat, and small footprint of the project, no significant adverse impacts to threatened or endangered species are expected to occur as a result of the Proposed Action.

4.6 AIR QUALITY

4.6.1 NO ACTION

Implementing the No Action alternative would result in no impacts to air quality because no construction would occur.

4.6.2 PROPOSED ACTION

Impact to regional air quality resulting from relatively minor construction activities associated with the Proposed Action, such as dust and exhaust from construction equipment, would be considered temporary, minimal, and considered

deminimus. The associated minimal impacts would not require a General Conformity Analysis.

4.7 CULTURAL RESOURCES

4.7.1 NO ACTION

Under the No Action alternative, any cultural resource within the project area would remain undisturbed. No impacts to cultural resources would occur due to the implementation of the No Action alternative.

4.7.2 PROPOSED ACTION

No known archeological sites are extant within the project area. A single historic property exists within the project area; the Bluff, a Traditional Cultural Property (TCP) that is eligible for the National Register of Historic Places (NRHP). The proposed action does not diminish the relevant or significant impact to the historic property. If human remains or archeological materials are encountered during the construction, work shall immediately stop in the area and the U.S. Army Corp of Engineers Fort Worth District will be notified along with appropriate authorities. Work shall not continue until the U.S. Army Corps of Engineers has the requirements of all applicable federal historic preservation laws.

4.8 RECREATION

4.8.1 NO ACTION

The No Action alternative would result in no impacts to recreational designated areas.

4.8.2 PROPOSED ACTION

The Proposed Action alternative would result in no impacts to recreational designated areas because they are not located within the project area.

5.0 MAINTENANCE

5.1 PRIMARY AND SECONDARY MAINTENANCE ACCESS ROUTE

The existing maintenance gravel road located east of the West Fork Trinity River will be the primary access route to the stormceptor. A secondary access route to the stormceptor will be constructed between Samuels Ave. and the existing gravel road, see Sheet 2 of 8 in Appendix A. This secondary access route will be a permanent access road located on the north side of the development (Sheet 2 of 8 in Appendix A).

5.2 LONG TERM MAINTENANCE

The developer, Carleton-Trinity Bluff, Ltd., will be responsible for long term maintenance of the stormceptor, secondary access road and drainage structure.

6.0 MITIGATION

6.1 CLEAN WATER ACT SECTION 404

Adverse impacts to waters of the U.S. would be avoided and minimized to the extent practicable. The need for compensatory mitigation for adverse impacts to waters of the U.S. is not necessary since the proposed impacts are minimal both individually and cumulatively from a Section 404 standpoint.

6.2 VEGETATION

Clearing of vegetation would be limited to the “Limits of Disturbance,” seen on Sheet 5 of 8 in Appendix A. The “Limits of Disturbance” is necessary for construction. The permanent access road located within the “Limits of Disturbance” will not be revegetated. The remaining disturbed areas within the flowage easement will receive a 2” thick seed injection compost blanket. This will help restore the disturbed area to pre-construction conditions. The USACE does not require woodland mitigation for Section 408 actions, unless impacts occur with Section 404 jurisdictional areas. This action does not require a pre-construction notification or compensatory mitigation under Section 404.

7.0 CUMULATIVE IMPACTS

Past, Present, Reasonably Foreseeable Projects

Past projects would include the floodplain maintenance easement, Tarrant County Water Control and Improvement District #1’s flowage easement, floodplain easement and sewage easement and residential and commercial development adjacent to and near the project area.

Present projects would include operation and maintenance of the West Fork Trinity River by USACE, Tarrant County Water Control Improvement District #1, and the City of Fort Worth.

Future projects would include residential development east of the project (i.e. Trinity Bluff’s multi-family development). The outfall structure will service the Trinity Bluff’s multifamily development.

No direct or indirect impacts from this project are expected to groundwater or threatened and endangered species. No cumulative impacts from implementing the Proposed Action are anticipated.

7.1 BIOLOGICAL RESOURCES

The impacts to the grassland, riparian and deciduous forest vegetation community have been minimized to the extent possible. Cumulative impacts to the vegetation would result from development of open space to urban development. Portions of the deciduous forest outside of the levee easement will likely be converted to residential uses.

7.2 AIR QUALITY

The limited scope of the Proposed Action would not be enough to trigger significant cumulative impacts to the air quality.

7.3 CULTURAL RESOURCES

No adverse direct impacts to cultural resources are anticipated from the Proposed Action. Cumulative impacts could occur as a result of development of adjacent property.

8.0 PUBLIC INVOLVEMENT

8.1 AGENCY COORDINATION

This section discusses consultations and coordination that will occur during the preparation of this document. This includes contacts made during the development of the proposed action, other alternatives considered, and preparation of this SEA. Copies of agency coordination letters are presented in Appendix B. Formal and information coordination would be conducted with the following agencies:

- State Historic Preservation Office (SHPO),
- Texas Historic Commission (THC),
- U.S. Fish and Wildlife Service (USFWS),
- Environmental Protection Agency (EPA), Region 6 office
- Texas Parks and Wildlife Department (TPWD), and
- Texas Commission on Environmental Quality (TCEQ).

8.2 PUBLIC INFORMATION AND REVIEW

In accordance with NEPA, a 30-day review period of the SEA was provided via a Notice of Availability, posting of the document on the Fort Worth District website www.swf.usace.army.mil, and a local mailing (Appendix C).

9.0 REFERENCES

Hayes, Mark. Texas Water Development Board. January 2004. Texas Major River Basins and Sub-Basins over DEM Map. Retrieved September 18, 2013 from <http://www.twdb.state.tx.us/mapping/maps.asp>.

Hayes, Mark. Texas Water Development Board. December 2004. Major Aquifers of Texas. Retrieved September 18, 2013 from <http://www.twdb.state.tx.us/mapping/maps.asp>.

Prior, Marsha, Duane E. Peter, and Joseph Murphey, eds. Below the Bluff: Urban Development at the Confluence of the West Fork and Clear Fork of the Trinity River, 1846-1965- Expanded Edition, Historic Context, Inventory, and Assessment of the Central City Segment of the Trinity River Vision Master Plan, Fort Worth, Texas. Rep. U.S. Army Corps of Engineers, Fort Worth District, 2009. Web. Feb. 2014.

Texas Commission on Environmental Quality. Texas State Implementation Plan. Retrieved September 18, 2013 from <http://www.tceq.texas.gov/airquality/sip/texas-sip>.

Texas Commission on Environmental Quality. Dallas-Fort Worth and the State Implementation Plan. September 18, 2013 from <http://www.tceq.texas.gov/airquality/sip/dfw/sip-dfw>.

Texas Parks and Wildlife Department. Rare, Threatened, and Endangered Species by County. Retrieved September 18, 2013 from http://www.tpwd.state.tx.us/landwater/land/maps/gis/ris/endangered_species/.

United States Army Corps of Engineers. 2011. Final Programmatic Environmental Assessment, Civil Works, Minor Section 408 NEPA Compliance, United States Army Corps of Engineers Fort Worth District, Texas. April 11, 2011.

United States Census Bureau. 2010. Census. Retrieved September 24, 2013 from <http://www.census.gov/prod/cen2010/doc/sf1.pdf>.

United State Fish and Wildlife Service. Ecological Service, Southwest Region, Endangered Species Program, T&E Species Lists. Retrieved September 18, 2013 from http://www.fws.gov/southwest/es/ES_ListSpecies.cfm

10.0 CREDENTIALS

Larry Clendenen
Certified Forester/ Professional Wetland Scientist
19-years of experience

Sarah Richter
Ecologist
1-year of experience

Appendix A

Exhibits



SHEET 1 OF 8 SHEETS	DATE:	09/16/2013
	DESIGN:	SCR
	DRAWN:	SCR
	CHECKED:	LDC
	KHA NO.:	063132004

Vicinity Map

Carleton Development
 Supplemental Environmental
 Assessment
 Fort Worth, Tarrant County, Texas



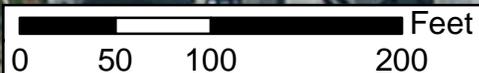
 Kimley-Horn
 and Associates, Inc

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries.



Legend

-  Building Footprint
-  Permanent Access Road
-  Storm Water Pipe
-  Tarrant County's Flowage Easement
-  Tarrant County's Sewage Easement
-  Limits of Disturbance/ Temporary Access Road
-  Storm Water Outfall



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

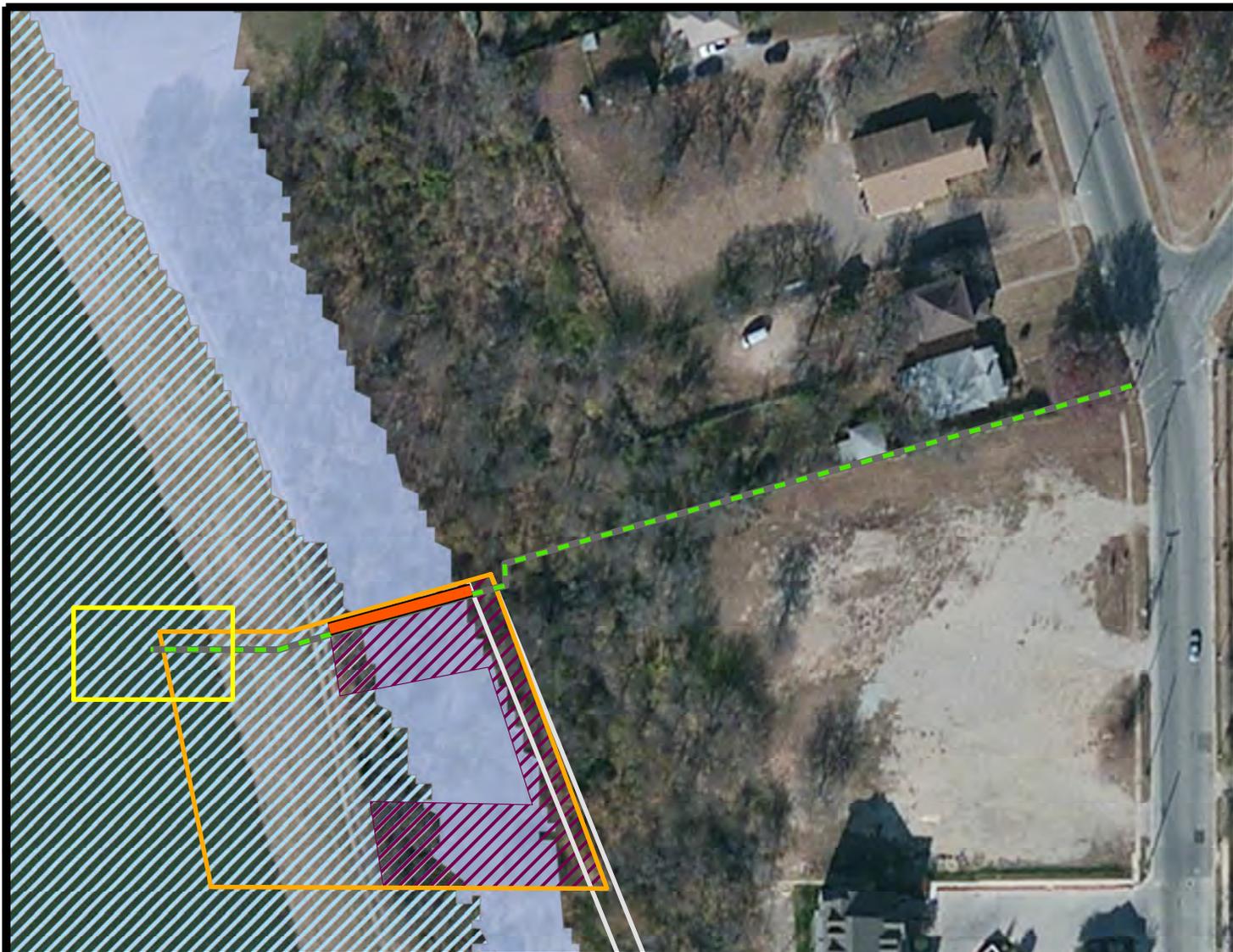
SHEET 2 OF 8 SHEETS	DATE:	12/18/2013
	DESIGN:	SCR
	DRAWN:	SCR
	CHECKED:	LDC
	KHA NO.:	063132004

Aerial Map
Aerial Source: TNRIS 2012

Carleton Development
Supplemental Environmental
Assessment
Fort Worth, Tarrant County, Texas

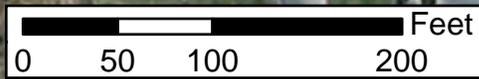


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Legend

-  Permanent Access Road
-  Storm Water Pipe
-  Storm Water Outfall
-  Tarrant County's Flowage Easement
-  Tarrant County's Sewage Easement
-  Limits of Disturbance/ Temporary Access Road
-  Zone X- Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and protected by levees from 1% annual chance flood
-  Zone AE- Base Flood Elevation determined



SHEET 3 OF 8 SHEETS	DATE:	12/18/2013
	DESIGN:	SCR
	DRAWN:	SCR
	CHECKED:	LDC
	KHA NO.:	063132004

FEMA Exhibit
Aerial Source: TNRIS 2012

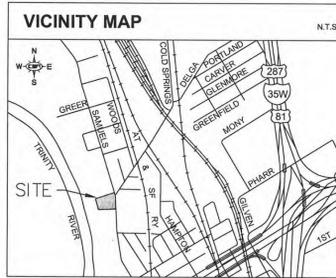
Carleton Development
Supplemental Environmental
Assessment
Fort Worth, Tarrant County, Texas





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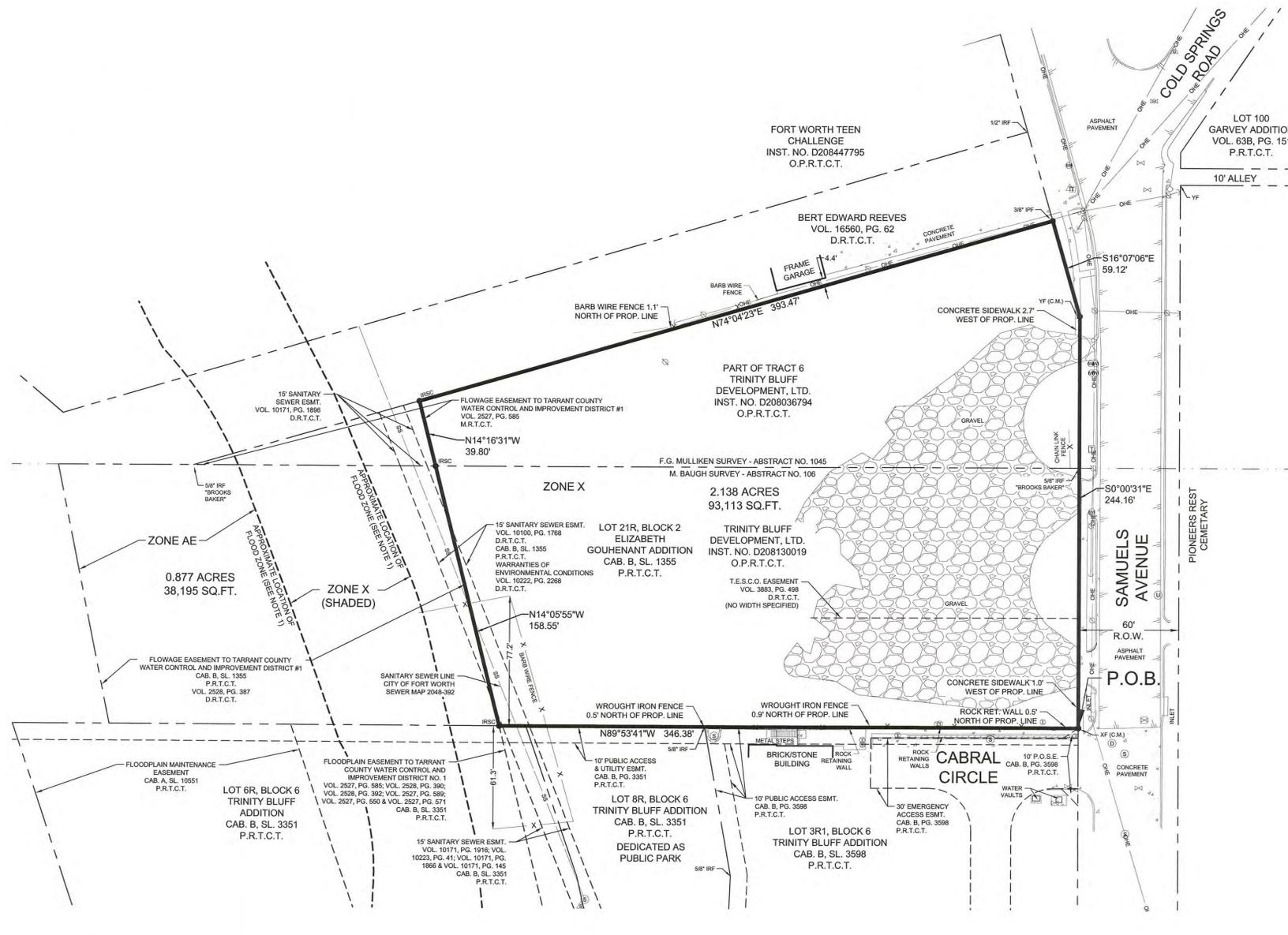


LINE TYPE LEGEND

---	BOUNDARY LINE
- - - -	EASEMENT LINE
---	BUILDING LINE
W	WATER LINE
SS	SANITARY SEWER LINE
SS	STORM SEWER LINE
---	GAS
---	UNDERGROUND GAS LINE
OHE	OVERHEAD UTILITY LINE
---	UNDERGROUND ELECTRIC LINE
---	UNDERGROUND TELEPHONE LINE
---	FENCE
---	CONCRETE PAVEMENT
---	ASPHALT PAVEMENT

LEGEND

□	BOX OR PEDESTAL	C	COMMUNICATIONS
○	HANDHOLE	E	ELECTRIC OR POWER
○	MANHOLE	F	FIBER OPTIC
▲	MARKER SIGN	G	NATURAL GAS
○	METER	P	PETROLEUM OR PIPELINE
○	MARKER PINFLAG	R	RAILROAD
○	POLE	S	SAN. SEWER OR WASTEWATER
○	STORAGE TANK	D	STORM SEWER
○	VALVE (EXCEPT WATER)	T	TELEPHONE
○	WALK	TR	TRAFFIC
○	WELL	U	UNIDENTIFIED
TV	CABLE TV	W	WATER
□	ROOF DRAIN	WB	SECURITY CAMERA
▲	ELEVATION BENCHMARK	SB	SANITARY SEWER BOX
→	FLOW DIRECTION	SC	SANITARY SEWER CLEAN OUT
▽	MONITORING WELL	SD	SANITARY SEWER LIFT STATION
⊕	FUEL TANK	SD	STORM SEWER DRAIN
⊕	FLOOD LIGHT	SB	TRAFFIC BARRIER
⊕	GUY ANCHOR	SB	TRAFFIC BOLLARD
⊕	GUY ANCHOR POLE	SB	TRAFFIC CAMERA
⊕	UTILITY POLE	SB	TRAFFIC SENSOR
⊕	ELECTRIC SWITCH	SB	TRAFFIC SIGNAL
⊕	ELECTRIC TRANSFORMER	SB	TRASH BIN
⊕	HANDICAPPED PARKING	○	TREE
⊕	PARKING METER	W	WATER BOX
⊕	RAILROAD SIGNAL	○	FIRE SPRINKLER CONNECTION
⊕	RAILROAD SIGN	○	FIRE HYDRANT
⊕	SIGN	○	WATER VALVE
⊕	MARQUEE/BILLBOARD	○	AIR RELEASE VALVE
⊕	A/C UNIT	○	WATER WELL
⊕	BASKET BALL GOAL	(CM)	CONTROLLING MONUMENT
⊕	BORE LOCATION	IRSC	5/8" IRON ROD W/ "KHA" CAP SET
⊕	FLAG POLE	IRSC	IRON ROD WITH CAP FOUND
⊕	GOAL POLE	ESMT	EASEMENT
⊕	GREASE TRAP	PKF	PK NAIL FOUND
⊕	IRRIGATION VALVE	IRP	IRON ROD FOUND
⊕	LIGHT STAND	OS	"X" CUT IN CONCRETE SET
⊕	MAIL BOX	XF	"X" CUT IN CONCRETE FOUND
⊕	NEWS STAND	YF	"Y" CUT IN CONCRETE FOUND
⊕	PHONE BOOTH	P.O.B.	POINT OF BEGINNING
⊕	P.O.S.E.		PUBLIC OPEN SPACE EASEMENT



LEGAL DESCRIPTION
2.138 ACRES

BEING a tract of land situated in the M. Baugh Survey, Abstract No. 106 and the F.G. Mulliken Survey, Abstract No. 1045, City of Fort Worth, Tarrant County, Texas and being part of Lot 21R, Block 2, Elizabeth Gouhenant Addition, an addition to the City of Fort Worth, Tarrant County, Texas according to the plat recorded in Cabinet B, Slide 1355, Plat Records of Tarrant County, Texas, and part of a tract of land described in General Warranty Deed with Vendor's Lien to Trinity Bluff Development, Ltd. recorded in Instrument No. D208036794, Official Public Records of Tarrant County, Texas, and being more particularly described as follows:

BEGINNING at an "x" cut in concrete found in the west right-of-way line of Samuels Avenue (a 60-foot wide right-of-way) at the northeast corner of Block 6, Trinity Bluff Addition, an addition to the City of Fort Worth, Texas, according to the plat recorded in Cabinet B, Slide 3598 and Cabinet B, Slide 3351, Plat Records of Tarrant County, Texas;

THENCE departing said west right-of-way line and with the north line of said Block 6, North 89°53'41" West, a distance of 346.38 feet to a 5/8" iron rod with "KHA" cap set at the southeast corner of a Flowage Easement to Tarrant County Water Control and Improvement District #1 as shown on the said plat of Elizabeth Gouhenant Addition and as recorded in Volume 2528, Page 387, Deed Records of Tarrant County, Texas;

THENCE departing the said north line of Block 6, with the east line of said Flowage Easement, North 14°05'55" West, a distance of 158.55 feet to a 5/8" iron rod with "KHA" cap set for corner in the north line of said Lot 21R at the northeast corner of said Flowage Easement and the southeast corner of a Flowage Easement to Tarrant County Water Control and Improvement District #1 recorded in Volume 2527, Page 585, Deed Records of Tarrant County, Texas;

THENCE departing the said north line of Lot 21R, with the east line of second mentioned Flowage Easement, North 14°16'31" West, a distance of 39.80 feet to a 5/8" iron rod with "KHA" cap set for corner in the north line of said Trinity Bluff Development, Ltd. tract at the northeast corner of said second mentioned Flowage Easement;

THENCE with the said north line of the Trinity Bluff Development, Ltd. tract, North 74°04'23" East, a distance of 393.47 feet to a 3/8" iron pipe found for corner in the said west right-of-way line of Samuels Avenue at the northeast corner of said Trinity Bluff Development, Ltd. tract;

THENCE with said west right-of-way line, the following courses and distances:
South 16°07'06" East, a distance of 59.12 feet to a "Y" cut in concrete found for corner;
South 0°00'31" East, a distance of 244.16 feet to the POINT OF BEGINNING and containing 2.138 acres or 93,113 square feet of land.

The bearings for this survey are based on the Texas Coordinate System of 1983, North Central Zone (4202), North American Datum of 1983.

SURVEYORS CERTIFICATION:

To: Carleton Development, Ltd.; and
Republic Title;

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1,3,4,7(a),8,9 and 11(a) of Table A thereof.

Survey Date: August 27, 2012
Revised: February 4, 2013
Revised: April 1, 2013



Dana Brown
Registered Professional Land Surveyor No. 5336
Kimley-Horn and Associates, Inc.
12750 Merit Drive, Suite 1000
Dallas, Texas 75251
Ph. 972-770-1300
dana.brown@kimley-horn.com

NOTES ADDRESSING SCHEDULE B EXCEPTIONS:

(Pursuant to Commitment for Title Insurance, provided by Republic Title as agent for First American Title Insurance Company, GF. No. 1003-23173-RTT, effective date July 31, 2012, issued September 12, 2012.)

- 10d. The Tarrant County Water Control and Improvement District No. One Easement recorded in Volume 2528, Pg. 387, Real Property Records of Tarrant County, Texas does not affect the subject property.
- 10e. The Texas Electric Service Company Easement recorded in Volume 3883, Page 496, Real Property Records of Tarrant County, Texas does affect the subject property and is shown hereon.
- 10f. The City of Fort Worth Easement recorded in Volume 10100, Page 1768, Real Property Records of Tarrant County, Texas does affect the subject property and is shown hereon.
- 10g. The terms, provisions, conditions, and liabilities contained in Warranties of Environmental Conditions recorded in Volume 10222, Page 2268, Real Property Records of Tarrant County, Texas does affect the subject property and is shown hereon.
- 10h. The Creek Maintenance requirement by the City of Fort Worth as noted on the plat recorded in Cabinet B, Slide 1355, Plat Records of Tarrant County, Texas does not affect the subject property.
- 10i. The subject property is a portion of the land described in Declaration of Covenant recorded in c# D21004665, Real Property Records of Tarrant County, Texas. As affected by Notice recorded in c# D211282486, Notice recorded in c# D212016632 and Conveyance recorded in c# D212035616, Real Property Records of Tarrant County, Texas.
- 10j. The subject property is a portion of the property described in the Fort Worth Gas Company Easement recorded in Volume 1151, Page 396, Real Property Records of Tarrant County, Texas. Due to the vague description of the easement, the surveyor is unable to determine its exact location.
- 10k. The City of Fort Worth Easement recorded in Volume 10171, Page 1896, Real Property Records of Tarrant County, Texas does not affect the subject property. As affected by Warranties of Environmental Conditions recorded in Volume 10171, Page 1910, Real Property Records, Tarrant County, Texas.
- 10l. The Tarrant County Water Control and Improvement District No. 1 Easement recorded in Volume 2527, Page 585, Real Property Records of Tarrant County, Texas does not affect the subject property.
- 10m. The sanitary sewer line as shown on City of Fort Worth Sewer Map 2048-392 does affect the subject property and is shown hereon.

NOTES:

- 1. According to Community Panel No. 480596 0190K, dated September 25, 2009 of the National Flood Insurance Program Map, Flood Insurance Rate Map of Tarrant County, Texas, Federal Emergency Management Agency, Federal Insurance Administration, this property is within a special flood hazard area. If this site is not within an identified special flood hazard area, this flood statement does not imply that the property and/or the structures thereon will be free from flooding or flood damage. On rare occasions, greater floods can and will occur and flood heights may be increased by man-made or natural causes. This flood statement shall not create liability on the part of the surveyor. The flood lines shown hereon are scaled from said Flood Insurance Rate Map, are approximate and are not located on the ground.
- 2. The survey abstract lines shown hereon are approximate and are not located on the ground.
- 3. There are no existing buildings on the surveyed property.

ALTA/ACSM LAND TITLE SURVEY
2.138 ACRES
M. BAUGH SURVEY, ABSTRACT NO. 106 &
F.G. MULLIKEN SURVEY, ABSTRACT NO. 1045
CITY OF FORT WORTH
TARRANT COUNTY, TEXAS

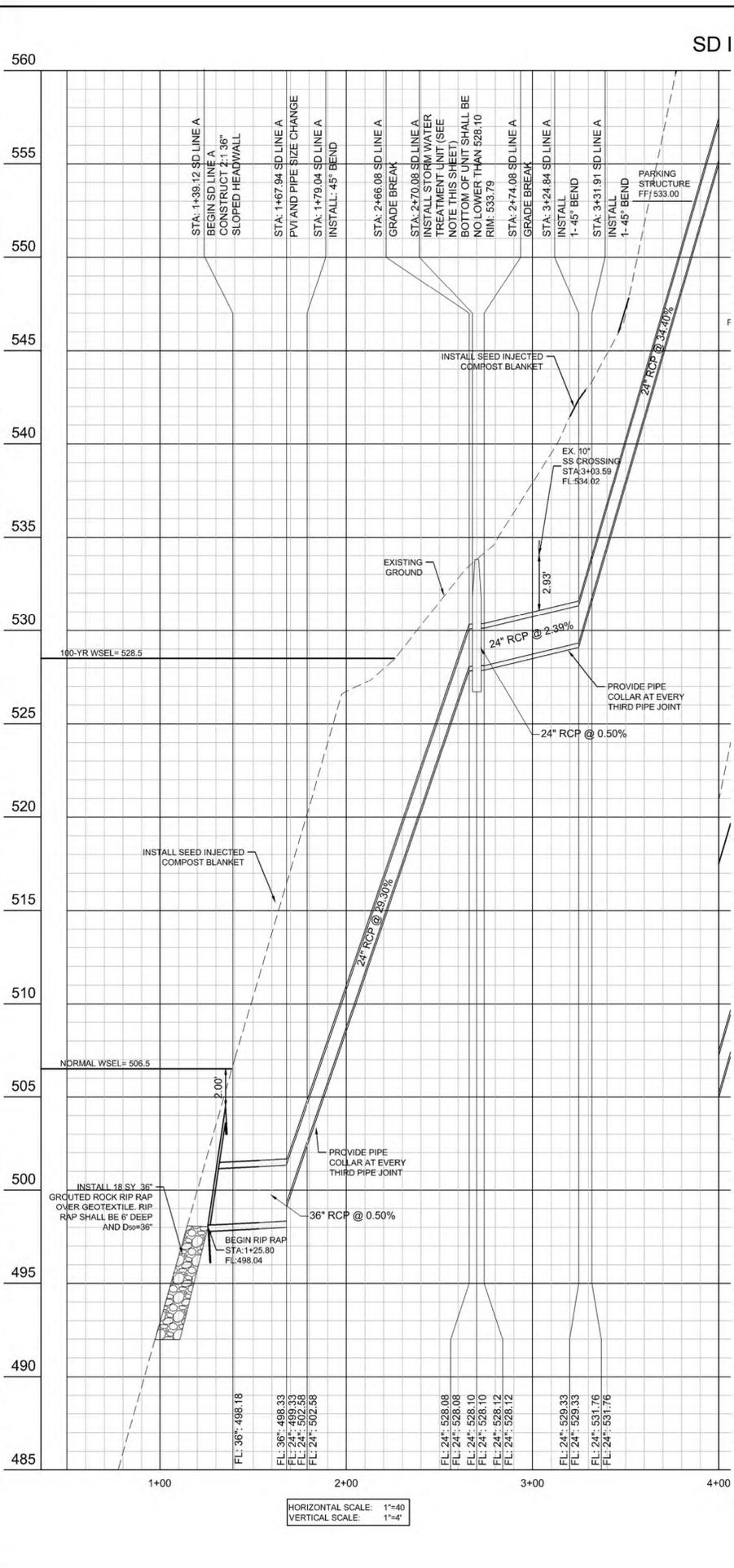


No.	DATE	REVISION DESCRIPTION
1	4/1/2013	REVISED BOUNDARY
No.	DATE	REVISION DESCRIPTION

Scale	1" = 40'
Drawn by	SLJ
Checked by	DAB
Date	8/27/2012
Project No.	063132004
Sheet No.	4 of 8

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RICCARDI, J.C. 09/20/13 3:49 PM
 PLOTTED BY: RICCARDI, J.C. 09/20/13 3:49 PM
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NOTES

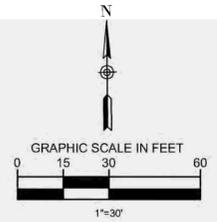
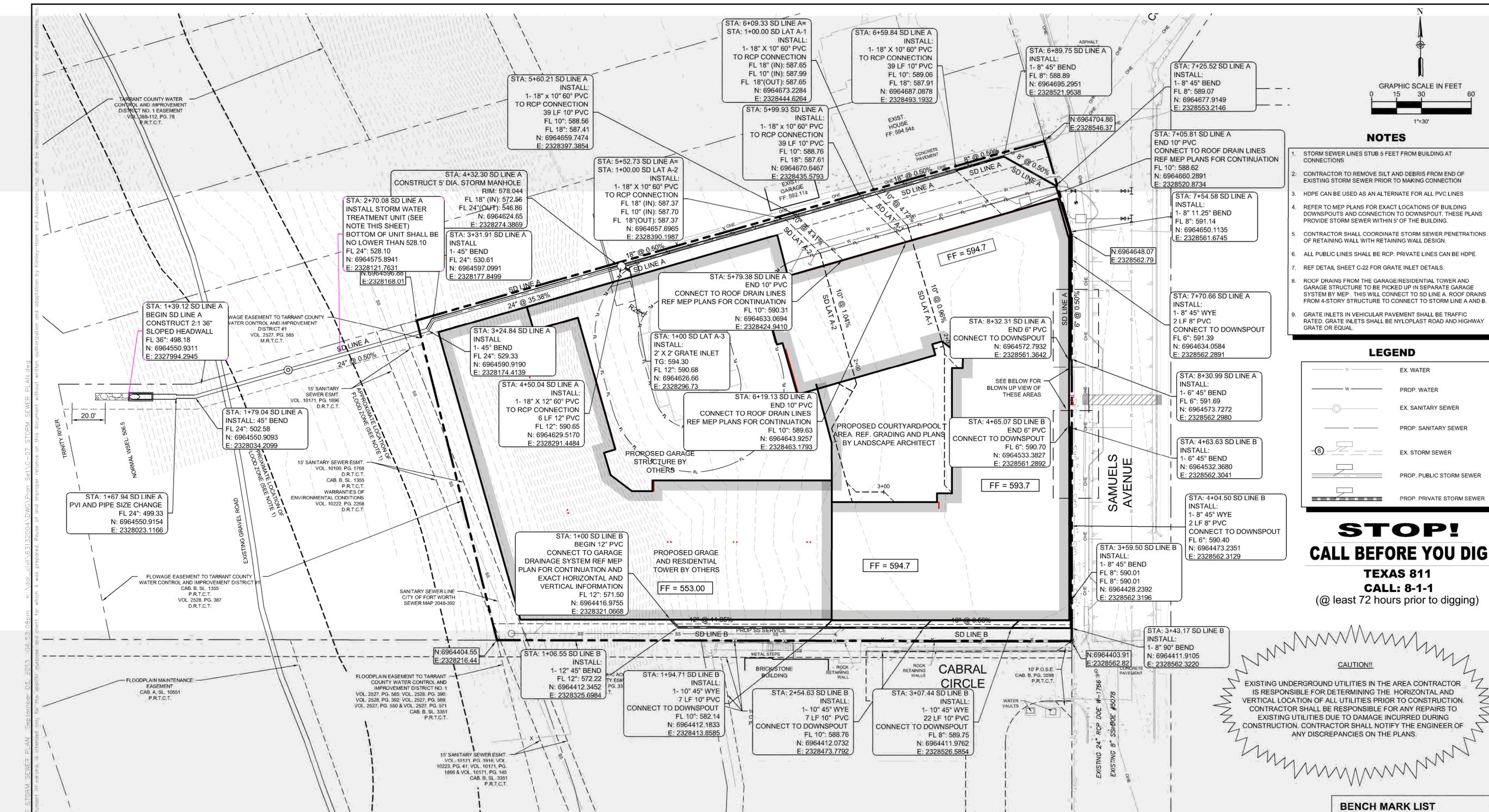
- STORM WATER TREATMENT UNIT SHALL BE DESIGNED TO TREAT THE FIRST 1.5" OF STORM WITH A REMOVAL EFFICIENCY OF 65% TSS. Q_w = 15.02 CFS. AREA DRAINING TO STORM WATER TREATMENT UNIT ± 1.8 ACRES.
- ADJUST MH RIM ELEVATIONS TO PROPOSED GRADE

STOP!
CALL BEFORE YOU DIG
 TEXAS 811
CALL: 8-1-1
 (@ least 72 hours prior to digging)

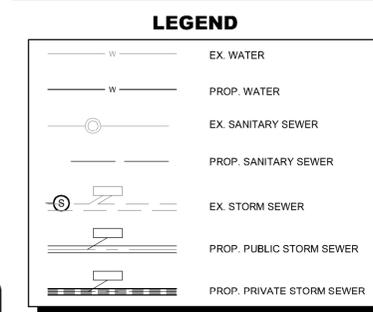
BENCH MARK LIST

BM 1	CITY OF FORT WORTH MONUMENT #88193 FOUND ON THE EAST CURB OF NORTH HAYS STREET 25± SOUTH OF THE CENTER LINE OF PHARR STREET IN THE CENTER OF A DOUBLE 10' INLET 1± OFF THE FACE OF CURB.	ELEV=559.70
BM 2	FOUND ON THE NORTHWEST CORNER OF A CURB INLET ON THE WEST CURB LINE OF SAMUELS AVENUE AND 27± NORTH OF CABRAL CIRCLE.	ELEV=594.23
BM 3	FOUND ON THE WEST EDGE OF A 4' WIDE SIDEWALK WEST OF SAMUELS AVENUE AND 298± NORTH OF CABRAL CIRCLE.	ELEV=592.81
BM 4	RAILROAD SPIKE SET IN SOUTH SIDE OF POWER POLE 1± ABOVE NATURAL GROUND; 1± WEST OF THE WEST CURB OF SAMUELS AVENUE AND 100± NORTH OF COLD SPRINGS ROAD.	ELEV=589.26

 Kimley-Horn and Associates, Inc. <small>© 2013 KIMLEY-HORN AND ASSOCIATES, INC. 12750 MERIT DRIVE, SUITE 1000, DALLAS, TX 75251 PHONE: 972-776-1000 FAX: 972-239-3820 WWW.KIMLEY-HORN.COM TX F-828</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	REVISIONS	DATE	BY				
NO.	REVISIONS	DATE	BY						
PRELIMINARY FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES Engineer: JOSEPH C. RICCARDI P.E. No. 100472 Date: SEPTEMBER 3, 2013									
KHA PROJECT: 63132004 DATE: SEPTEMBER 3, 2013 SCALE: 2"=30' DESIGNED BY: PEM DRAWN BY: PEM CHECKED BY: JCR	TEXAS TRINITY BLUFFS OFF-SITE PAVING AND DRAINAGE IMPROVEMENTS PROFILE								
STORM SEWER LINE A PLAN & PROFILE									
SHEET NUMBER 5 of 8									



- NOTES**
- STORM SEWER LINES STUB 5 FEET FROM BUILDING AT CONNECTIONS
 - CONTRACTOR TO REMOVE SILT AND DEBRIS FROM END OF EXISTING STORM SEWER PRIOR TO MAKING CONNECTION
 - HDPE CAN BE USED AS AN ALTERNATE FOR ALL PVC LINES
 - REFER TO MEP PLANS FOR EXACT LOCATIONS OF BUILDING DOWNSPOUTS AND CONNECTION TO DOWNSPOUT. THESE PLANS PROVIDE STORM SEWER WITHIN 5' OF THE BUILDING.
 - CONTRACTOR SHALL COORDINATE STORM SEWER PENETRATIONS OF RETAINING WALL WITH RETAINING WALL DESIGN.
 - ALL PUBLIC LINES SHALL BE RCP. PRIVATE LINES CAN BE HDPE.
 - REF DETAIL SHEET C-22 FOR GRATE INLET DETAILS.
 - ROOF DRAINS FROM THE GARAGE/RESIDENTIAL TOWER AND GARAGE STRUCTURE TO BE PICKED UP IN SEPARATE GARAGE SYSTEM BY MEP. THIS WILL CONNECT TO SD LINE A. ROOF DRAINS FROM 4-STORY STRUCTURE TO CONNECT TO STORM LINE A AND B.
 - GRATE INLETS IN VEHICULAR PAVEMENT SHALL BE TRAFFIC RATED. GRATE INLETS SHALL BE NYLOPLAST ROAD AND HIGHWAY GRATE OR EQUAL.

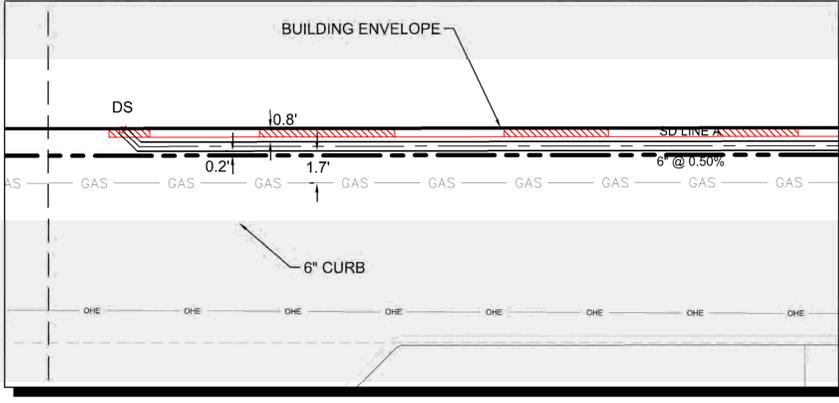
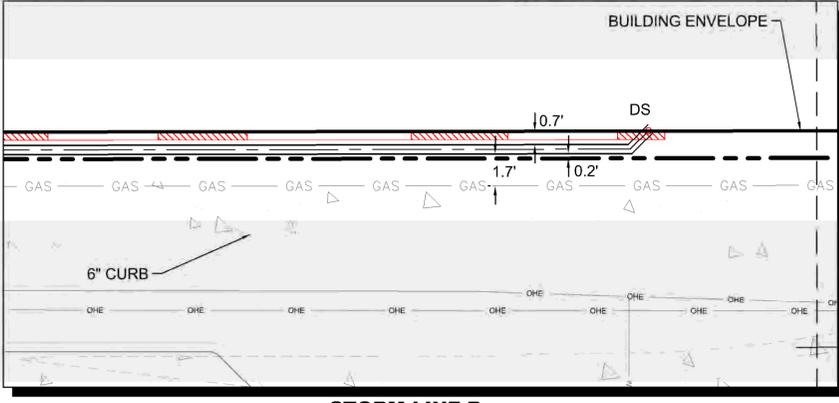


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(@ least 72 hours prior to digging)

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- BENCH MARK LIST**
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GEOTECHNICAL SERVICES PROVIDED BY:
AECOM
CONTACT: 303-228-3000
REPORT NO: 60276755
REPORT DATED: APRIL 8, 2013

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12750 MERIT DRIVE, SUITE 1000, DALLAS, TX 75251
PHONE: 972-776-1000 FAX: 972-238-3820
WWW.KIMLEY-HORN.COM TX F-628

PRELIMINARY
FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES
Kimley-Horn and Associates, Inc.
Engineer JOSEPH C. RICCARDI
P.E. No. 100472
Date SEPTEMBER 3, 2013

NO.	REVISIONS	DATE	BY

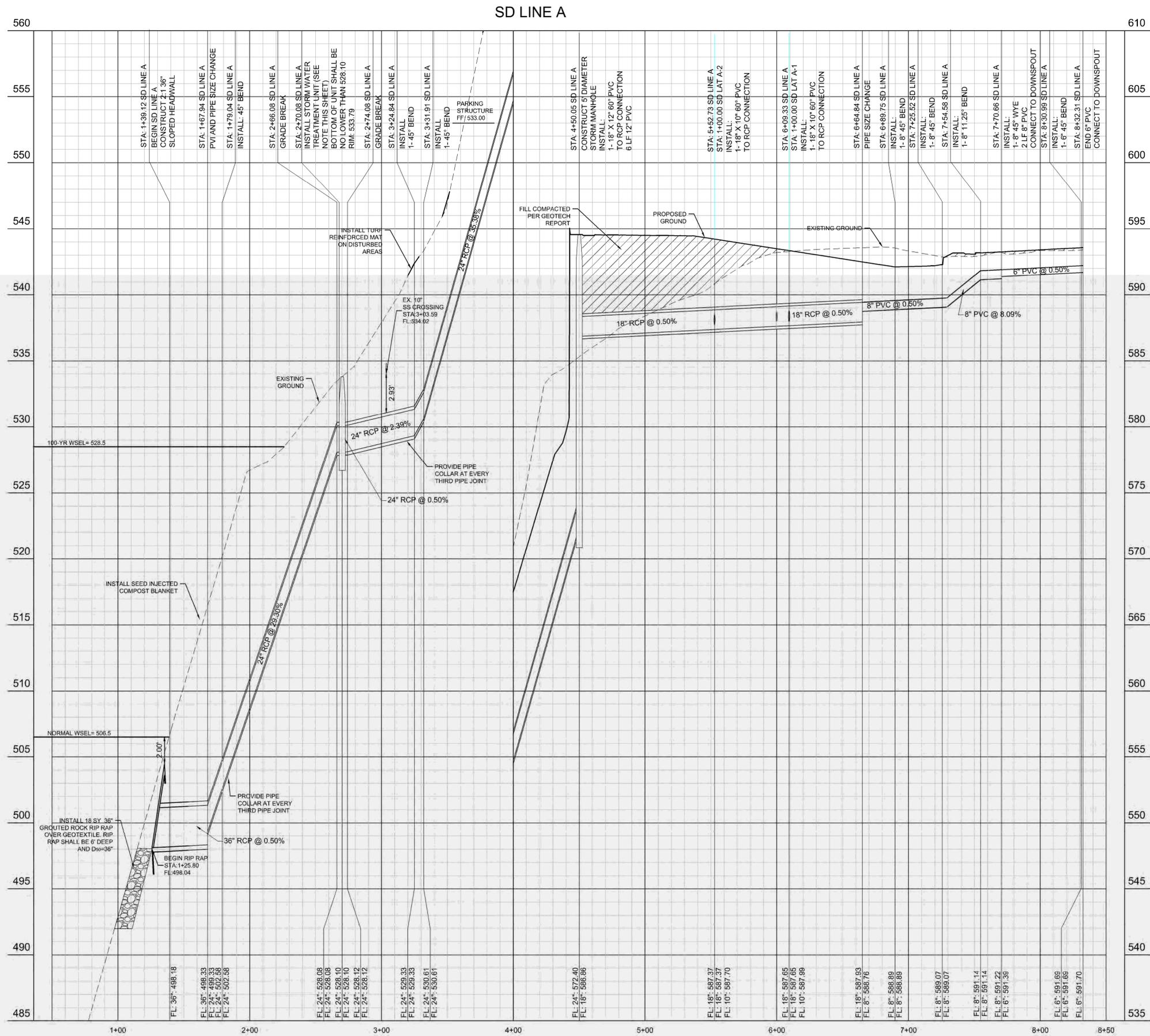
KHA PROJECT 63132004
DATE SEPTEMBER 3, 2013
SCALE AS SHOWN
DESIGNED BY PEM
DRAWN BY PEM
CHECKED BY JCR
TEXAS
FORT WORTH

TRINITY BLUFFS
PREPARED FOR
CARLETON

STORM SEWER PLAN

SHEET NUMBER
6 of 8

PLOTTED BY: KERRY MONTANIN 03/20/13 4:53 PM
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HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'

- NOTES**
- STORM WATER TREATMENT UNIT SHALL BE DESIGNED TO TREAT THE FIRST 1.5" OF STORM WITH A REMOVAL EFFICIENCY OF 65% TSS. Q₁₀ = 15.02 CFS. AREA DRAINING TO STORM WATER TREATMENT UNIT = ±1.8 ACRES.
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 (@ least 72 hours prior to digging)

BENCH MARK LIST

BM 1 CITY OF FORT WORTH MONUMENT #88193 FOUND ON THE EAST CURB OF NORTH HAYS STREET 25± SOUTH OF THE CENTER LINE OF PHARR STREET IN THE CENTER OF A DOUBLE 10' INLET 1± OFF THE FACE OF CURB. ELEV=559.70
BM 2 [X] FOUND ON THE NORTHWEST CORNER OF A CURB INLET ON THE WEST CURB LINE OF SAMUELS AVENUE AND 27± NORTH OF CABRAL CIRCLE. ELEV=594.23
BM 3 [X] FOUND ON THE WEST EDGE OF A 4' WIDE SIDEWALK WEST OF SAMUELS AVENUE AND 298± NORTH OF CABRAL CIRCLE. ELEV=592.81
BM 4 RAILROAD SPIKE SET IN SOUTH SIDE OF POWER POLE 1± ABOVE NATURAL GROUND; 1± WEST OF THE WEST CURB OF SAMUELS AVENUE AND 100± NORTH OF COLD SPRINGS ROAD. ELEV=589.26

Kimley-Horn and Associates, Inc.
 © 2013 KIMLEY-HORN AND ASSOCIATES, INC.
 12750 MERT DRIVE, SUITE 1000, DALLAS, TX 75251
 PHONE: 972-776-1000 FAX: 972-238-3820
 WWW.KIMLEY-HORN.COM TX-F-828

PRELIMINARY

FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES.

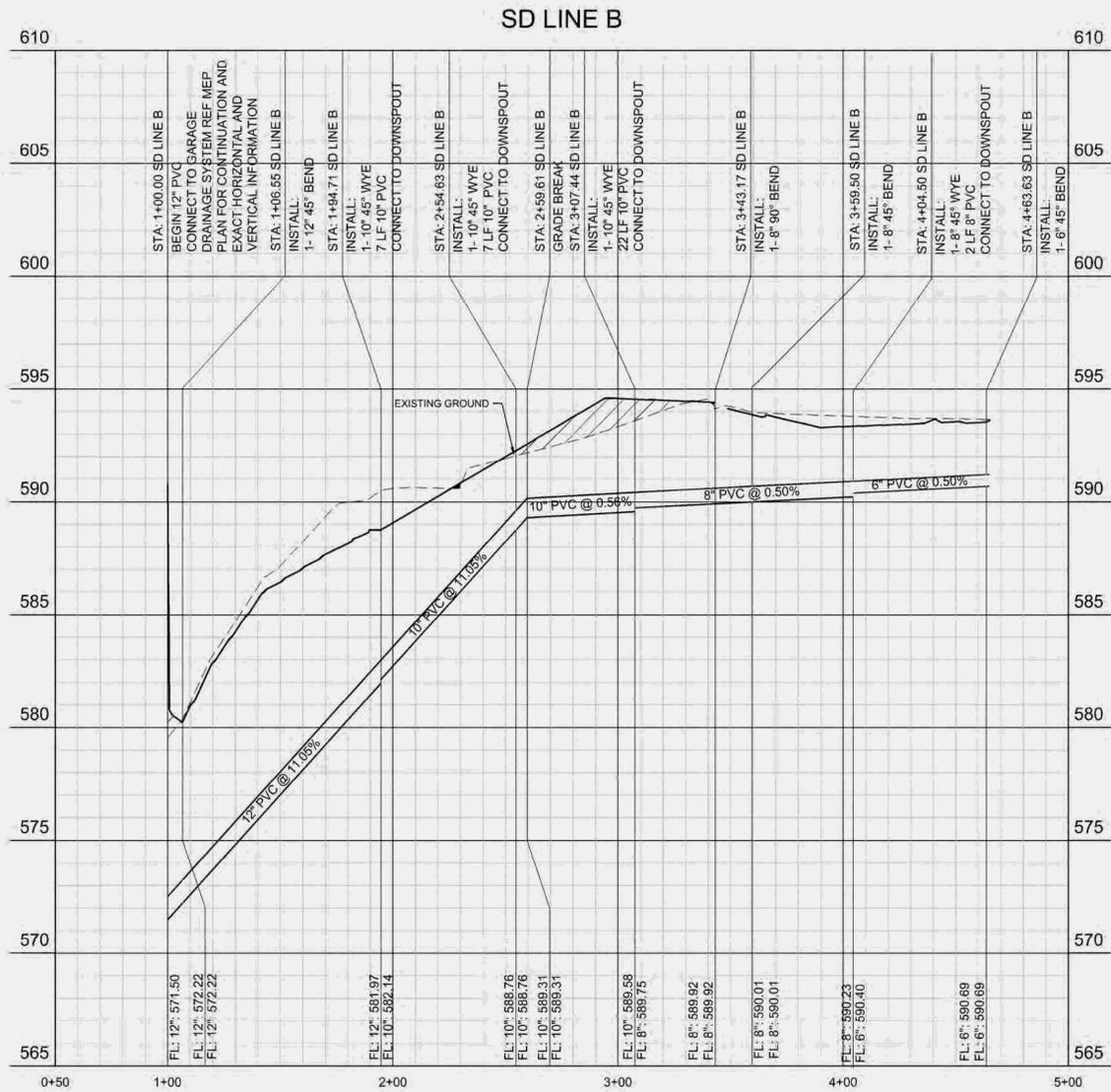
Kimley-Horn and Associates, Inc.
 Engineer: JOSEPH C. RICCARDI
 P.E. No. 100472
 Date: SEPTEMBER 3, 2013

KHA PROJECT	63132004	DATE	SEPTEMBER 3, 2013	SCALE	AS SHOWN	DESIGNED BY	PEM	DRAWN BY	PEM	CHECKED BY	JCR
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TRINITY BLUFFS
 PREPARED FOR
CARLETON

STORM SEWER
PROFILE 1

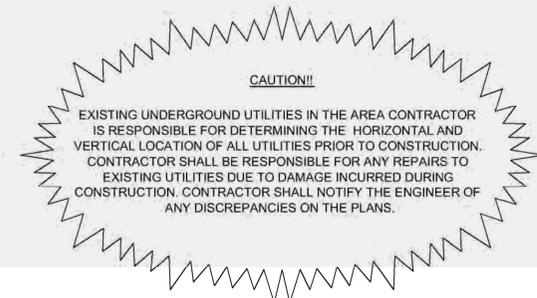
SHEET NUMBER
7 of 8



HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'

NOTES

- ADJUST MH RIM ELEVATIONS TO PROPOSED GRADE



STOP!
CALL BEFORE YOU DIG
TEXAS 811
CALL: 8-1-1
 (@ least 72 hours prior to digging)

BENCH MARK LIST

- BM 1 CITY OF FORT WORTH MONUMENT #88193 FOUND ON THE EAST CURB OF NORTH HAYS STREET 25± SOUTH OF THE CENTER LINE OF PHARR STREET IN THE CENTER OF A DOUBLE 10' INLET 1± OFF THE FACE OF CURB.
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 ELEV=589.26

TRINITY BLUFFS
 PREPARED FOR
CARLETON

STORM SEWER
PROFILE 2

KHA PROJECT	63132004
DATE	SEPTEMBER 3, 2013
SCALE	AS SHOWN
DESIGNED BY	PEM
DRAWN BY	PEM
CHECKED BY	JCR

PRELIMINARY
 FOR REVIEW ONLY NOT FOR CONSTRUCTION OR PERMIT PURPOSES

 Engineer: JOSEPH C. RICCARDI
 P.E. No. 100472
 Date: SEPTEMBER 3, 2013

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 12750 MERT DRIVE, SUITE 1000 DALLAS, TX 75251
 PHONE: 972-776-1000 FAX: 972-239-3820
 WWW.KIMLEY-HORN.COM TX F-828

No.	REVISIONS	DATE	BY

Appendix B
Agency Coordination Letters



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Mark Wolfe, Executive Director
Texas Historical Commission
1511 Colorado
Austin, Texas 78701

Dear Mr. Wolfe:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

Under the terms of Section 408 of the National Environmental Policy Act (33 U.S.C. § 408), any proposed modifications to an existing USACE project, whether federally or locally maintained, that goes beyond those modifications required for normal operation and maintenance requires a determination by USACE that the proposed alteration, permanent occupation, or use of a federal project would not be injurious to the public interest and would not impair the functioning of the existing project. A Supplemental Environmental Assessment (SEA) has been prepared to address this determination and disclose all associated impacts for public review.

A Public Notice has been prepared to notify the public of this action and to solicit comments. The Public Notice, draft Finding Of No Significant Impacts and SEA are enclosed with this communication for your review and to solicit any additional comments or concerns your agency may have regarding this action. We will consider any comments that we receive from you by the close of the comment period as indicated on the Public Notice. Please address any comments you may have to the contact indicated in the Public Notice. Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric W. Verwers".

Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

David W. Galindo, Team Leader
Standards Implementation Team - Water Quality Division
Texas Commission on Environmental Quality
12100 Park Circle 35, Building F
Austin, Texas 78711

Dear Mr. Galindo:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Kathy Boydston
Texas Parks and Wildlife Department
4200 Smith School Road
Austin, Texas 78744

Dear Ms. Boydston:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Michael Jansky
Office of Planning and Coordination
U.S. Environmental Protection Agency, Region 6
1445 Ross Avenue, Mail Stop 6ENXP
Dallas, Texas 75202

Dear Mr. Jansky:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Debra Bills
U.S. Fish and Wildlife Service
Ecological Services
2005 NE Green Oaks Blvd., Suite 140
Arlington, Texas 76006

Dear Ms. Bills:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Honorable Wallace Coffey, Chairman
ATTN: Mr. James Arterberry
Comanche Nation
584 NW Bingo Rd, HC 32 Box 908
Lawton, Oklahoma 73502

Dear Honorable Coffey:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Honorable Ronald D. Twohatchet, Chairman
Kiowa Tribe of Oklahoma
Hwy 9 West
Carnegie, Oklahoma 73015

Dear Honorable Twohatchet:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF

June 16, 2014

Honorable Terri Parton, President
Wichita Executive Committee
1 Mile North of Anadarko on Hwy 281
Anadarko, Oklahoma 73005

Dear Honorable Parton:

The U.S. Army Corps of Engineers (USACE) is assessing the potential impacts to the environment which may result from the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and both a temporary and permanent access road will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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Eric W. Verwers
Director, Regional Planning and
Environmental Center

Enclosures

TEXAS HISTORICAL COMMISSION
real places telling real stories

March 18, 2014

Larry Clendenen, CF, PWS
Kimley-Horn and Associates, Inc.
12750 Merit Drive
Suite 1000
Dallas, TX 75251

Re: Project review under Section 106 of the National Historic Preservation Act of 1966
Supplemental Environmental Assessment for the Carleton Development's Storm Drain and
Access Roads, Fort Worth, Tarrant County, Texas

Dear Mr. Clendenen:

Thank you for your submittal regarding the above referenced project. This letter serves as comment on the proposed undertaking from the State Historic Preservation Officer, the Executive Director of the Texas Historical Commission.

The review staff, led by Bradford Jones, has completed its review. As described in your letter, the proposed storm drain and access roads cross through a portion of the Trinity Bluffs Traditional Cultural Property (TCP). Based on the project specifics provided in your submission and in telephone conversations, including the planned re-vegetation of areas affected by the construction, we concur that the proposed outfall and temporary work areas do not present an adverse effect to the Trinity Bluffs TCP. Additionally, previous surveys in the area suggest there is a low potential for encountering intact archeological deposits, and therefore no additional archeological survey is required. However, should intact and previously unrecorded archeological deposits be encountered in the course of construction, the work should halt immediately and the Texas Historical Commission contacted for additional coordination before proceeding.

Thank you for your cooperation in this review process, and for your efforts to preserve the irreplaceable heritage of Texas. **If we may be of further assistance, please call Bradford Jones at 512/463-5865.**

Sincerely,



for
Mark Wolfe, State Historic Preservation Officer
Executive Director

MW/bmj



Appendix C

Public Involvement



DEPARTMENT OF THE ARMY
FORT WORTH DISTRICT, CORPS OF ENGINEERS
P. O. BOX 17300
FORT WORTH, TEXAS 76102-0300

REPLY TO
ATTENTION OF:

June 16, 2014

Regional Planning and Environmental Center

NOTICE OF AVAILABILITY

DRAFT FONSI AND SUPPLEMENTAL ENVIRONMENTAL ASSESSMENT CIVIL WORKS, MINOR SECTION 408 NEPA COMPLIANCE U.S. ARMY CORPS OF ENGINEERS FORT WORTH DISTRICT CARLETON DEVELOPMENT'S STORM DRAIN AND ACCESS ROADS

The public is hereby notified of the availability of the Draft Finding of No Significant Impact (FONSI) and Supplemental Environmental Assessment (SEA) for the proposed construction of an outfall structure that is necessary for the storm water drainage system of the proposed Trinity Bluffs' multi-family development project to drain as designed. The proposed construction includes an outfall structure, piping, and an access road on the east bank of the West Fork Trinity River. The piping and the access road(s) will cross the Tarrant County Water Control and Improvement District #1's sewage and flowage easements along the east bank of the river.

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The Draft FONSI and SEA will be available for review at the following locations:

Kimley-Horn and Associates Inc.
801 Cherry Street, Unit 11 Suite 950
Fort Worth, Texas 76102

The Draft FONSI, SEA, and Programmatic Environmental Assessment can also be viewed via the Internet on the Fort Worth District website at the following address:
www.swf.usace.army.mil.

A 30-day public comment period begins with publication of this Notice of Availability. Please address any comments to Ms. Hope Pollmann, Environmental Resources Planner, CESWF-PEC-TN, P.O. Box 17300, Fort Worth, Texas 76102-0300 or hope.l.pollmann@usace.army.mil.

A handwritten signature in black ink, appearing to read "Eric W. Verwers". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eric W. Verwers
Director, Regional Planning and
Environmental Center