Document 00910

ADDENDUM NO. 08

Date of Addendum: 4-11-14

PROJECT NAME: TIGER Project #1 – White Oak Path:
Alabonson Rd. to Antoine Dr. Link

PROJECT NO: WBS No. F-TIGER4-0001-4

BID DATE: April 17, 2014 (There is no change to the Bid Date.) 04/10/2014

FROM: City of Houston, General Services Department
900 Bagby, 2nd Floor, City Hall Annex
Houston, Texas 77002
Attn: Richard Odlozil, Senior Project Manager

STATE OF TEXAS
BRADLEY G. EAVES
91759
LICENSED
PROFESSIONAL ENGINEER

Bradley G Eaves PE PTOE PTP

TO: Prospective Bidders

This Addendum forms a part of the Bidding Documents and will be incorporated into the Contract, as applicable. Insofar as the original Project Manual and Drawings are inconsistent, this Addendum governs.

This Addendum uses the change page method: remove and replace or add pages, or Drawing sheets, as directed in the change instructions below. Change bars (|) are provided in the outside margins of pages from the Project Manual to indicate where changes have been made; no change bars are provided in added Sections. Reissued Drawing Sheets show the Addendum number below the title block and changes in the Drawing are noted by a revision mark and enclosed in a revision cloud.

CHANGES TO PROJECT MANUAL

INTRODUCTORY INFORMATION

1. Document 00010 – Table of Contents. Replace it in its entirety with the attached.
2. Document 00015 – List of Drawings. Replace it in its entirety with the attached.

CONTRACTING REQUIREMENTS

3. Document 00811 – Federal Wage Rate Decision. Replace it in its entirety with the attached.

CHANGES TO DRAWINGS

4. Delete Sheet 18, Plan and Profile, and replace with attached Sheet 18. Swale rerouted to outfall into existing Inwood Golf Course ditch instead of Alabonson Road ditch. 24" RCP connection to Alabonson Road ditch removed. 8" PVC culvert added under existing golf course sidewalk to connect to existing ditch. 40 LF of existing golf course sidewalk to be reconstructed after culvert installation.

5. Delete Sheet 27, Alabonson Road Trailhead Grading Plan, and replace attached Sheet 27. Detention pond flow restrictor changed from dual 2" PVC to single 6" PVC. Riprap added to both ends of 24" RCP outfall to existing Alabonson Road ditch. Some callouts added/changed to refer to sheet 27A or 27B. Sheet title has changed.

6. Delete Sheet 27A, Alabonson Road Trailhead Fire Hydrant Relocation and Storm Profile, and replace attached Sheet 27A. Sheet 27A has been replotted at 1:20 horizontal and 1:2 vertical. A profile of the proposed 24" RCP outfall to existing Alabonson Road ditch has been added. Said 24" outfall has been lowered. Sheet title has changed.

7. Delete Sheet 27B, Alabonson Road Trailhead Detention Design and Stormwater Calculations, and replace attached Sheet 27B. Profile of weir cropped to no longer show existing ditch flowline. This information has been added to sheet 27A. Callout added to this effect. Riprap added to both ends of lowered 24" RCP (same pipe as on 27A). Sheet title has changed.

8. Delete Sheet 48, Antoine Pedestrian Hybrid Signal Layout, and replace with attached Sheet 48. Median pushbutton phase updated per Transtar request. Additional reference to R10-6a "Stop Here On Red" signs added. Reference signing plan (unchanged) for installation details.

9. Delete Sheet 49, Antoine Pedestrian Hybrid Signal Pole Schedule & Cable Schematic Sheet, and replace with attached Sheet 49. Notes added regarding ITS installation/preservation.

10. Delete Sheet 81, Stormwater Pollution Prevention Plan Sta. 2+00 to 10+00, and replace with attached Sheet 81. Note added that silt fence may be relocated during construction, as necessary to construct detention pond shown on sheets 27-27B.

11. Delete Sheet 90, Design Cross Sections Sta. 2+75.00 to Sta. 4+00.00, and replace with attached Sheet 90. Swale has been added to cross-sections, in conjunction with changes to Sheet 18.

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CLARIFICATIONS

12. Riprap and Channel Lining, where shown, should be constructed in accordance with Harris County Flood Control District standards and specifications. These are available for download at http://www.hcfcd.org/techinfo_specs.html.

END OF ADDENDUM NO. 08

(RAV:CRC:_____ DATED: 4-11-14

Humberto Bautista, P.E.
City Engineer
General Services Department

END OF DOCUMENT

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Doc. No.	Document Title	Doc. Date

Document 00010

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NOTE: Bold capitalized Specification Sections are included in the City of Houston 2012 Standard Construction Specifications for Wastewater Collection Systems, Water Lines, Storm Drainage, Street Paving, and Traffic, dated July 1, 2012, and are incorporated in Project Manuals by reference as if copied verbatim. Documents listed "for filing" are to be provided by Bidder and are not included in this Project Manual unless indicated for example only. The Document numbers and titles hold places for actual documents to be submitted by Contractor during Bid, post-bid, or construction phase of the Project. Specification Sections marked with an asterisk (*) are amended by a supplemental specification, placed in front of the Specification it amends. Documents in the 200, 300 and 400 series of Division 00, except for Document 00410B – Bid Form, Part B, are not part of the Contract.

Doc. No.	Document Title	Doc. Date
	INTRODUCTORY INFORMATION	
00010	Table of Contents	04-10-2014
00015	List of Drawings	04-10-2014
	BIDDING REQUIREMENTS	
	INSTRUCTIONS TO BIDDERS	
00200	Instructions to Bidders	03-10-2008
00210	Supplementary Instructions to Bidders	12-15-2011
00220	Request for Bid Information	12-13-2013
	INFORMATION AVAILABLE TO BIDDERS	
00320	Geotechnical Information	12-13-2013
	BID FORMS AND SUPPLEMENTS	
00410	Bid Form, Parts A & B	04-27-2012
00430	Bidder's Bond (For filing; Example Form)	06-16-2006
00450	Bidder's Statement of MWBE/PDBE/DBE/SBE Status	07-19-2007
00452	Contractor Submission List - Fair Campaign Ordinance	06-16-2006
00454	Affidavit of Non-interest	06-16-2006
00455	Affidavit of Ownership or Control	10-26-2007

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Doc. No.	Document Title	Doc. Date
00457	Conflict of Interest Questionnaire	01-09-2011
00458	Bidder's Certificate Regarding Foreign Trade Restriction	02-01-2004
00459	Contractor's Statement Regarding Previous Contracts Subject to EEO	02-01-2004

POST-BID PROCEDURES

00495	Post-bid Procedures	05-01-2012

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00500	Form of Business	08-15-2006
00501	Resolution of Contractor	02-01-2010
00520	Agreement	05-01-2012

BONDS AND CERTIFICATES

00600	List of Proposed Subcontractors and Suppliers, Parts A & B	10-28-2009
00601	Drug Policy Compliance Agreement	06-19-2006
00602	Contractor's Drug Free Workplace Policy (For filing)	
00604	History of OSHA Actions and List of On-the-job Injuries	06-19-2006
00605	List of Safety Impact Positions	06-19-2006
00607	Certification Regarding Debarment, Suspension, and Other Responsibility Matters	06-19-2006
00610	Performance Bond	06-19-2006
00611	Statutory Payment Bond	06-19-2006
00620	Affidavit of Insurance (with attached Certificates of Insurance)	06-19-2006
00622	Name and Qualifications of Proposed Superintendent (For filing)	
00624	Affidavit of Compliance with Affirmative Action Program	06-19-2006
00633	Equal Employment Opportunity – Certification By Material Suppliers	02-01-2010

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00700	General Conditions	08-01-2013

SUPPLEMENTARY CONDITIONS

00800	Supplementary Conditions	08-01-2013
00805	Equal Employment Opportunity - Program Requirements	05-01-2012
00806-T	Disadvantaged Business Enterprise Program Requirements	03-31-2012
00811	Federal Wage Rate Decision	01-03-2014

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Doc. No.	Document Title	Doc. Date
00851	Buy America Requirements	05-21-2012
00852	Changed Conditions Clauses	08-01-2011

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Child Support Certificate
FHWA 1273 - Required Contract Provisions for Federal-Aid Construction Contracts

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01110	Summary of Work	12-13-2013
01145	Use of Premises	08-01-2003
01255	Change Order Procedures	08-01-2003
01270	Measurement and Payment	08-01-2003
01292	Schedule of Values	08-01-2003
01312	Coordination and Meetings	08-01-2003
01321	Construction Photographs	08-01-2003
01325	Construction Schedule	09-28-2007
01330	Submittal Procedures	08-01-2003
01340	Shop Drawings, Product Data, and Samples	08-01-2003
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01450	Contractor's Quality Control	08-01-2003
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01504	Temporary Facilities and Controls	08-01-2003
01555	Traffic Control and Regulation	08-01-2003
01562	Tree and Plant Protection	08-01-2003
01570	Storm Water Pollution Control	08-01-2003
01575	Stabilized Construction Exit	08-01-2003
01576	Waste Material Disposal	08-01-2003
01578	Control of Ground Water	08-01-2003
01610	Basic Product Requirements	08-01-2003
01630	Product Substitution Procedures	08-01-2003
01725	Field Surveying	08-01-2003
01731	Cutting and Patching	08-01-2003
01732	Procedure for Water Valve Assistance (with Attachments)	08-01-2003

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01755	Starting Systems	08-01-2003
01770	Closeout Procedures	09-28-2007
01782	Operations and Maintenance Data	09-28-2007
01785	Project Record Documents	09-28-2007

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02215	Finish Grading	08-22-2013
02221	**REMOVING EXISTING PAVEMENTS AND STRUCTURES**	**07-01-2009**
02233	**CLEARING AND GRUBBING**	**01-01-2011**
02315	**ROADWAY EXCAVATION**	**07-01-2009**
02316	**EXCAVATION AND BACKFILL FOR STRUCTURES**	**01-01-2011**
02317	**EXCAVATION AND BACKFILL FOR UTILITIES**	**01-01-2011**
02318	**EXTRA UNIT PRICE WORK FOR EXCAVATION AND BACKFILL**	**01-01-2011**
02319	**BORROW**	**01-01-2011**
02321	**CEMENT STABILIZED SAND**	**01-01-2011**
02330	**EMBANKMENT**	**10-01-2002**
02338	**PORTLAND CEMENT STABILIZED SUBGRADE**	**10-01-2002**
02465	**DRILLED SHAFT FOUNDATIONS**	**10-01-2002**
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02512	**WATER TAP AND SERVICE LINE INSTALLATION**	**04-27-2012**
02513	**WET CONNECTIONS**	**10-01-2002**
02514	**DISINFECTION OF WATER LINES**	**01-01-2011**
02515	**HYDROSTATIC TESTING OF PIPELINES**	**01-01-2011**
02520	**FIRE HYDRANTS**	**05-05-2011**
02521	**GATE VALVES**	**01-01-2011**
02525	**TAPPING SLEEVES AND VALVES**	**01-01-2011**
02582	**TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)**	**07-01-2009**
02611	**REINFORCED CONCRETE PIPE**	**02-01-2011**
02631	**STORM SEWERS**	**01-26-2012**
02632	**CAST-IN-PLACE INLETS, HEADWALLS, AND WINGWALLS**	**10-01-2002**
02633	**PRECAST CONCRETE INLETS, HEADWALLS, AND WINGWALLS**	**10-01-2002**
02712	**CEMENT STABILIZED BASE COURSE**	**10-01-2002**

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02752	**CONCRETE PAVEMENT JOINTS**	**10-01-2002**
02753	**CONCRETE PAVEMENT CURING**	**10-01-2002**
02762	**BLAST CLEANING OF PAVEMENT**	**10-01-2002**
02767	**THERMOPLASTIC PAVEMENT MARKINGS**	**07-01-2012**
02771	**CURB, CURB AND GUTTER, AND HEADERS**	**10-01-2002**
02775	**CONCRETE SIDEWALKS**	**10-01-2002**
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02893	**TRAFFIC SIGNAL CONSTRUCTION**	**07-01-2009**
02930	Lawns and Grasses	08-22-2013
02950	Planting	08-22-2013
02980	Landscape Establishment for One (1) Year	08-22-2013

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03315	**CONCRETE FOR UTILITY CONSTRUCTION**	**10-01-2002**

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DIVISION 5 - METALS

DIVISION 6 - WOOD AND PLASTICS

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

DIVISION 8 - DOORS AND WINDOWS

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DIVISION 15 - MECHANICAL		
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16711	**TRAFFIC SIGNAL CONDUIT**	**07-01-2009**
16715	**VEHICLE SIGNAL HEADS**	**07-01-2009**
16716	**PEDESTRIAN SIGNAL HEADS**	**07-01-2009**
16718	**VEHICLE TRAFFIC SIGNAL MODULE**	**07-01-2009**
16719	**COUNTDOWN PEDESTRIAN SIGNAL MODULE**	**07-01-2009**
16720	**TRAFFIC SIGNAL CABLE**	**07-01-2009**
16730	**ITS CONTROLLER CABINET ASSEMBLY**	**07-01-2012**
16731	**MODEL 2070 CONTROLLER UNIT**	**07-01-2009**
16732	**UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEM FOR TRAFFIC SIGNAL CABINETS**	**07-01-2012**
16750	**ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTON**	**07-01-2009**
16785	**GPS SERIAL COMMUNICATIONS**	**07-01-2012**

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420	Concrete Structures	06-01-2004
421	Hydraulic Cement Concrete	06-01-2004
423	Retaining Walls	06-01-2004
424	Precast Concrete Structures (Fabrication)	06-01-2004
425	Precast Prestressed Concrete Structural Members	06-01-2004
426	Prestressing	06-01-2004
427	Surface Finishes for Concrete	06-01-2004
428	Concrete Surface Treatment	06-01-2004
434	Elastomeric Bridge Bearings	06-01-2004
440	Reinforcing Steel	06-01-2004
441	Steel Structures	06-01-2004
442	Metal for Structures	06-01-2004
445	Galvanizing	06-01-2004
447	Structural Bolting	06-01-2004
448	Structural Field Welding	06-01-2004

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Doc. No.	Document Title	Doc. Date
449	Anchor Bolts	06-01-2004
454	Bridge Expansion Joints	06-01-2004
458	Waterproof Membranes for Structures	06-01-2004
550	Chain Link Fence	06-01-2004
556	Pipe Underdrains	06-01-2004
4007	Prefabricated Pedestrian Steel Truss Bridge Span	09-01-2004

END OF DOCUMENT

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Document 00015

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4	TYPICAL SECTIONS
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12	SURVEY CONTROL MAP
13	SWING TIES
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18-26	PLAN & PROFILE
27	ALABONSON ROAD TRAILHEAD GRADING PLAN
27A	ALABONSON ROAD TRAILHEAD FIRE HYDRANT RELOCATION AND STORM PROFILE
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28	BOLLARD DETAIL
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48	ANTOINE PEDESTRIAN HYBRID SIGNAL LAYOUT
49	ANTOINE PEDESTRIAN HYBRID SIGNAL - POLE SCHEDULE & CABLE SCHEMATIC SHEET
50	ANTOINE PEDESTRIAN HYBRID SIGNAL - GENERAL NOTES
51-56	CITY OF HOUSTON TRAFFIC SIGNAL STANDARD DETAILS

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57-62	SIGNING AND STRIPING PLAN
63	SUMMARY OF SMALL SIGNS
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81-86	STORMWATER POLLUTION PREVENTION PLAN
87-88	CITY OF HOUSTON ENVIRONMENTAL STANDARD DETAILS
89	HCFCD ENVIRONMENTAL STANDARD DETAILS

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89A-89B	EARTHWORK DATA SHEETS

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90-122	DESIGN CROSS SECTIONS

END OF DOCUMENT

04/10/2014

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Document 00811

FEDERAL WAGE RATE DECISION

1.01 In accordance with the Davis-Bacon Act (Public Law No. 403, 7th Congress), the public body awarding this Contract does hereby specify the following to be assigned minimum wage rates which will be paid by the Contractor and all Subcontractors for this Project.

1.02 This prevailing wage rate does not prohibit the payment of more than the rates stated.

END OF DOCUMENT

General Decision Number: TX140056 01/03/2014 TX56

Superseded General Decision Number: TX20130056

State: Texas

Construction Type: Highway

Counties: Austin, Brazoria, Chambers, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, San Jacinto and Waller Counties in Texas.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Modification Number	Publication Date
0	01/03/2014

* SUTX2011-013 08/10/2011

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER (Paving and Structures)	$ 12.98	
ELECTRICIAN	$ 27.11	
FORM BUILDER/FORM SETTER		
Paving & Curb	$ 12.34	
Structures	$ 12.23	
LABORER		
Asphalt Raker	$ 12.36	
Flagger	$ 10.33	
Laborer, Common	$ 11.02	
Laborer, Utility	$ 11.73	
Pipelayer	$ 12.12	
Work Zone Barricade Servicer	$ 11.67	
PAINTER (Structures)	$ 18.62	
POWER EQUIPMENT OPERATOR:		
Asphalt Distributor	$ 14.06	
Asphalt Paving Machine	$ 14.32	
Broom or Sweeper	$ 12.68	
Concrete Pavement Finishing Machine	$ 13.07	
Concrete Paving, Curing, Float, Texturing Machine	$ 11.71	
Concrete Saw	$ 13.99	
Crane, Hydraulic 80 Tons or less	$ 13.86	

Crane, Lattice boom 80 tons or less.....$ 14.97
Crane, Lattice boom over 80 Tons.....$ 15.80
Crawler Tractor.....$ 13.68
Excavator, 50,000 pounds or less.....$ 12.71
Excavator, Over 50,000 pounds.....$ 14.53
Foundation Drill, Crawler Mounted.....$ 17.43
Foundation Drill, Truck Mounted.....$ 15.89
Front End Loader 3 CY or Less.....$ 13.32
Front End Loader, Over 3 CY.....$ 13.17
Loader/Backhoe.....$ 14.29
Mechanic.....$ 16.96
Milling Machine.....$ 13.53
Motor Grader, Fine Grade.....$ 15.69
Motor Grader, Rough.....$ 14.23
Off Road Hauler.....$ 14.60
Pavement Marking Machine.....$ 11.18
Piledriver.....$ 14.95
Roller, Asphalt.....$ 11.95
Roller, Other.....$ 11.57
Scraper.....$ 13.47
Spreader Box.....$ 13.58

Servicer.....$ 13.97

Steel Worker
Reinforcing Steel.....$ 15.15
Structural Steel Welder.....$ 12.85
Structural Steel.....$ 14.39

TRUCK DRIVER
Low Boy Float.....$ 16.03
Single Axle.....$ 11.46
Single or Tandem Axle Dump.....$ 11.48
Tandem Axle Tractor w/Semi Trailer.....$ 12.27

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

==========

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

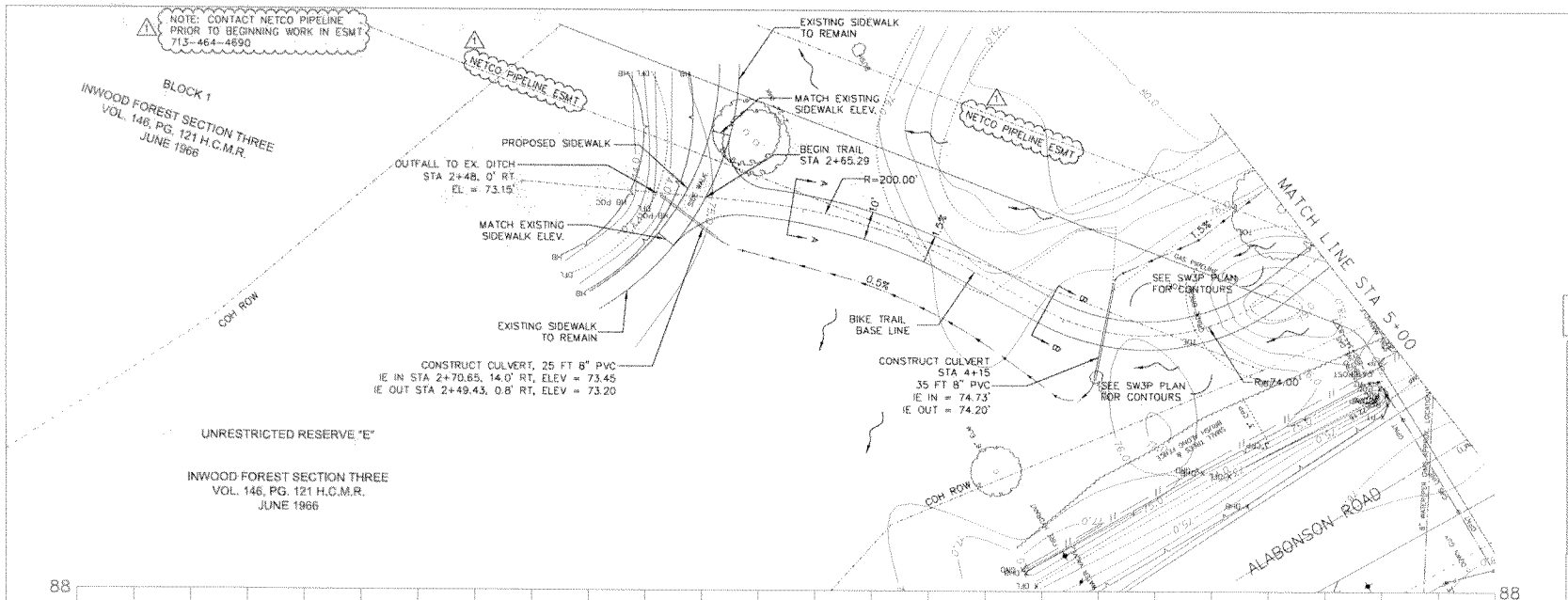
The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

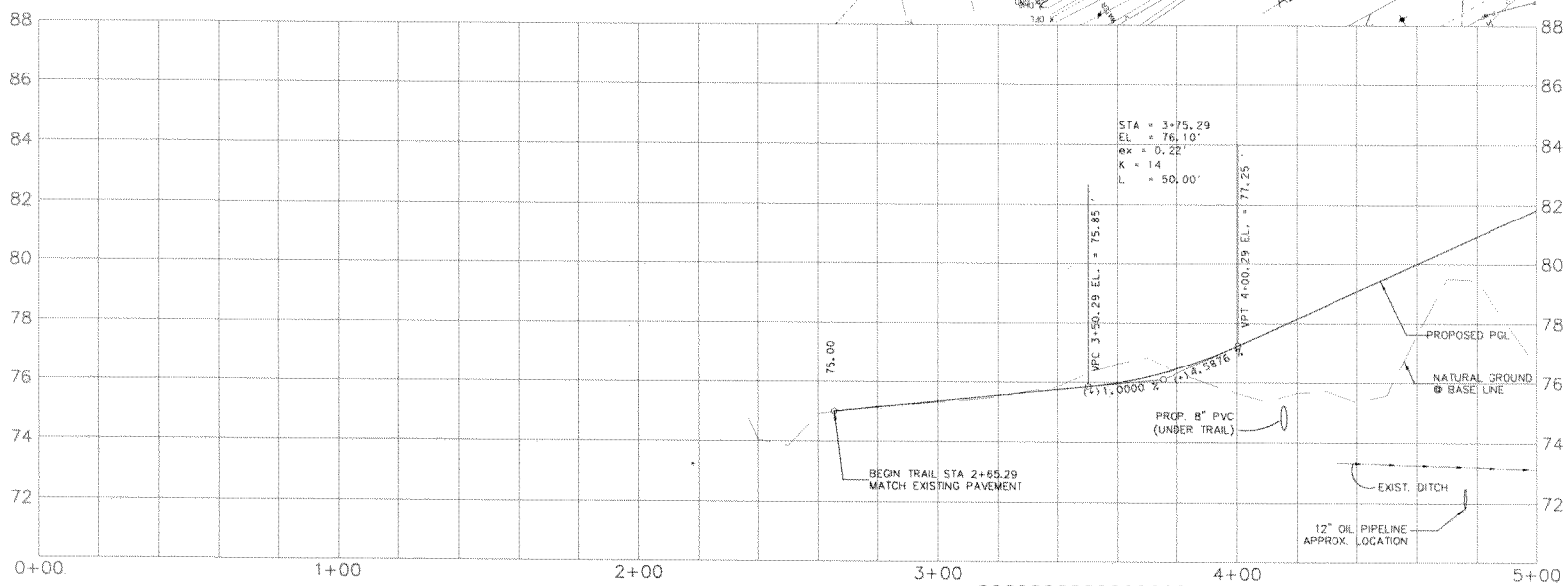
3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION





NOTE: ADDED DETENTION POND IN ADDENDUM 6

ADDENDUM 6

NOTE: TRAIL MUST MEET AMERICANS WITH DISABILITY ACT REQUIREMENTS AND TEXAS ACCESSIBILITY STANDARDS

PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

CENTERPOINT ENERGY/ELECTRIC FACILITIES — DATE
APPROVED ONLY FOR CROSSING UNDERGROUND ELECTRIC LINES UNLESS OTHERWISE NOTED
VALID AT TIME OF REVIEW ONLY

AT&T Texas/SWBT UTILITY LINES SHOWN — DATE
Approval for AT&T Texas/SWBT Underground Conduit Facilities Only
Signature valid for one year

CENTERPOINT ENERGY/GAS FACILITIES — DATE
GAS SERVICE LINES ARE NOT SHOWN

TRAFFIC ENGINEERS, INC.
INNOVATIVE TRANSPORTATION SOLUTIONS
TBPE REGISTRATION # F-3168
8373 SOUTHWEST FREEWAY, SUITE 260, HOUSTON, TX 77074
TEL (713) 270-8145

STATE OF TEXAS — BRADLEY G. EAVES — 91759 — LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley G. Eaves P.E. 91759 on January 23, 2014 Traffic Engineers, Inc. TBPE-3158

Bradley G. Eaves PE PTOE PTP

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK

PLAN AND PROFILE
STA 2+00 TO 5+00

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
WBS NUMBER	**CITY DWG NO.**
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. 1" = 2' HORIZ. 1" = 20'	
SHEET NO. 18 OF 122	

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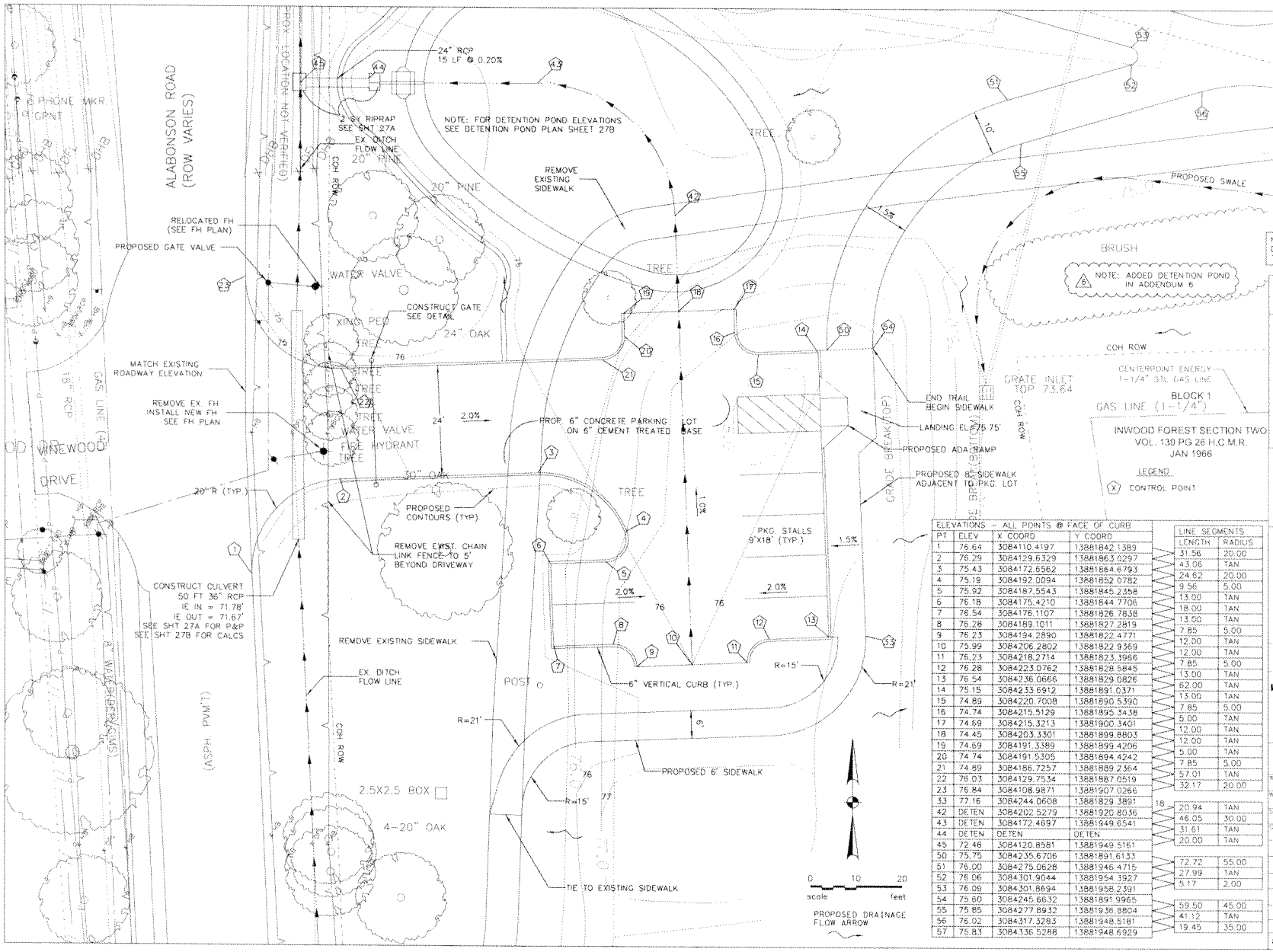
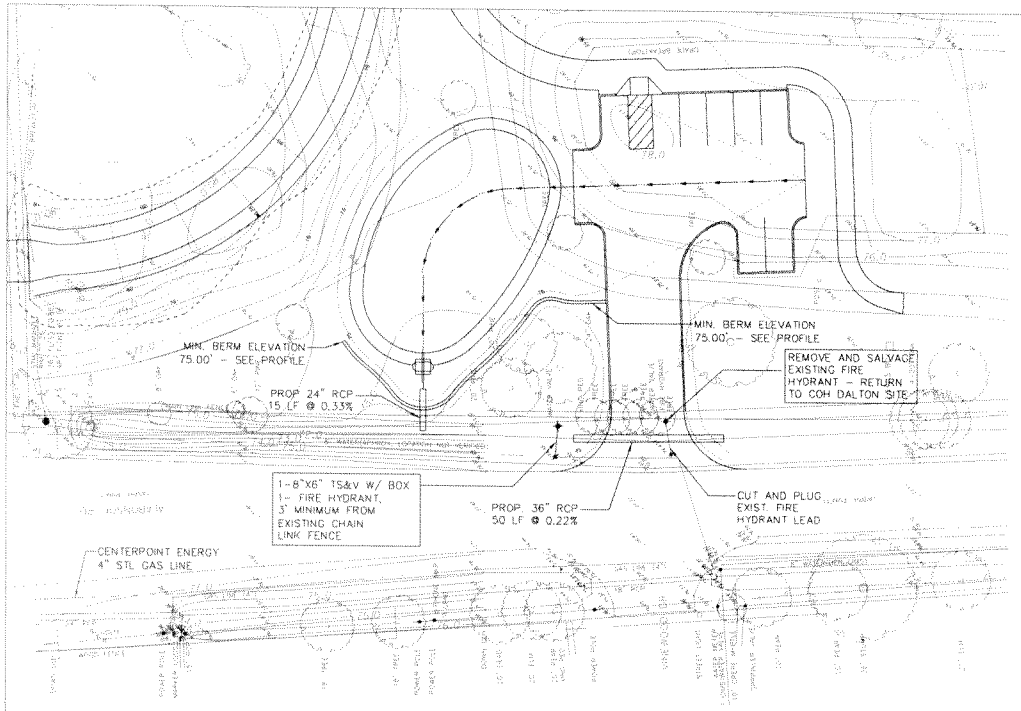


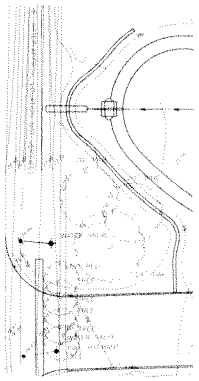
ELEVATIONS - ALL POINTS @ FACE OF CURB			
PT	ELEV	X COORD	Y COORD
1	76.64	3084110.4197	13881842.1389
2	76.29	3084129.6329	13881863.0297
3	75.43	3084172.6562	13881864.6793
4	75.19	3084192.0094	13881852.0782
5	75.92	3084187.5543	13881845.2358
6	76.18	3084175.4210	13881844.7706
7	76.54	3084176.1107	13881826.7838
8	76.28	3084189.1011	13881827.2819
9	76.23	3084194.2890	13881822.4771
10	75.99	3084206.2802	13881822.9369
11	76.23	3084218.2714	13881823.3966
12	76.28	3084223.0762	13881828.5845
13	76.54	3084236.0666	13881829.0826
14	75.15	3084233.6912	13881891.0371
15	74.89	3084220.7008	13881890.5390
16	74.74	3084215.5129	13881895.3438
17	74.69	3084215.3213	13881900.3401
18	74.45	3084203.3301	13881899.8803
19	74.69	3084191.3389	13881899.4206
20	74.74	3084191.5305	13881894.4242
21	74.89	3084186.7257	13881889.2364
22	76.03	3084129.7534	13881887.0519
23	76.84	3084108.9871	13881907.0266
33	77.16	3084244.0608	13881829.3891
42	DETEN	3084202.5279	13881920.8036
43	DETEN	3084172.4697	13881949.6541
44	DETEN	DETEN	DETEN
45	72.46	3084120.8581	13881949.5161
50	75.75	3084235.6706	13881891.6133
51	76.00	3084275.0628	13881946.4715
52	76.06	3084301.9044	13881954.3927
53	76.09	3084301.8694	13881958.2391
54	75.60	3084245.8632	13881891.9965
55	75.85	3084277.8932	13881936.8804
56	76.02	3084317.3283	13881948.5181
57	75.83	3084336.5288	13881948.6929

LINE SEGMENTS	
LENGTH	RADIUS
31.56	20.00
43.06	TAN
24.62	20.00
9.56	5.00
13.00	TAN
18.00	TAN
13.00	TAN
7.85	5.00
12.00	TAN
12.00	TAN
7.85	5.00
13.00	TAN
62.00	TAN
13.00	TAN
7.85	5.00
5.00	TAN
12.00	TAN
12.00	TAN
5.00	TAN
7.85	5.00
57.01	TAN
32.17	20.00
18	
20.94	TAN
46.05	30.00
31.61	TAN
20.00	TAN
72.72	55.00
27.99	TAN
5.17	2.00
59.50	45.00
41.12	TAN
19.45	35.00



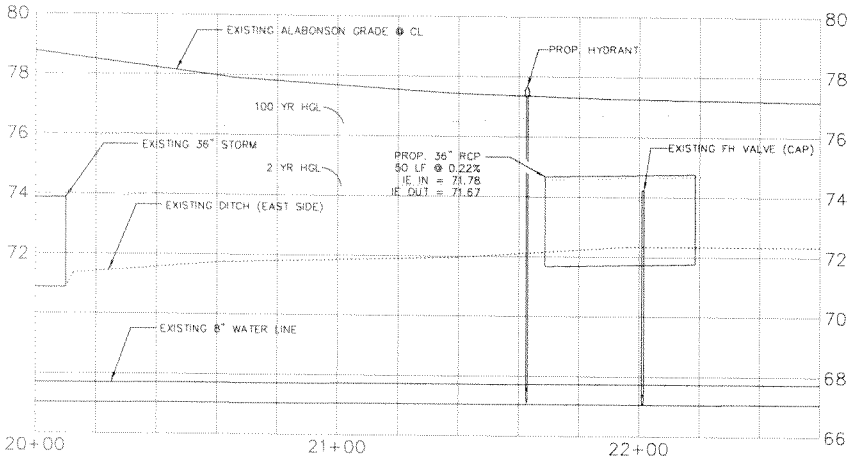
FIRE HYDRANT RELOCATION

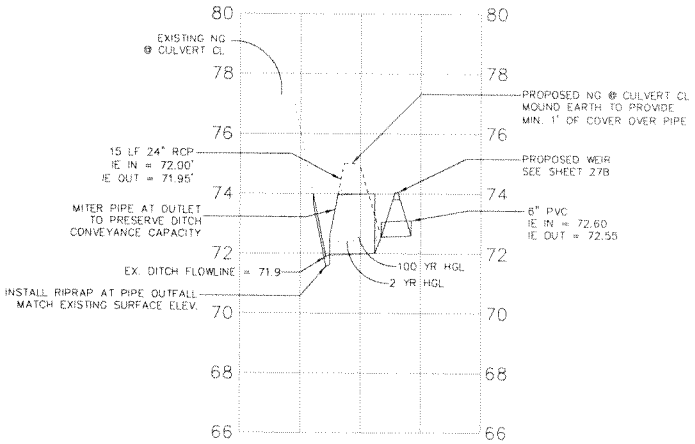
0 20 40
scale feet



DETENTION POND OUTLET

0 20 40
scale feet





PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

NOTE: REVISED SHEET 27A (JUSTIN) PROVIDED AT REQUEST OF COH STORM REVIEWER SEE DATE 4-11-2014 EMAIL AT 13:06 FOR DISCREPANCY WITH STAKE SEDIMENTS.

TRAFFIC ENGINEERS, INC.

TRAFFIC ENGINEERING, INTERSECTION SPECIALISTS
TIRE RESEARCH ONE P.E. CORP.
6525 SOUTHWEST FREEWAY, SUITE 200, HOUSTON, TX 77074
TEL (713) 270-8146

STATE OF TEXAS
BRADLEY G. EAVES
91759
LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley G. Eaves P.E. 91759 on July 26, 2013 Traffic Engineers, Inc. TBPE-3158

Bradley G. Eaves P.E. 91759

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

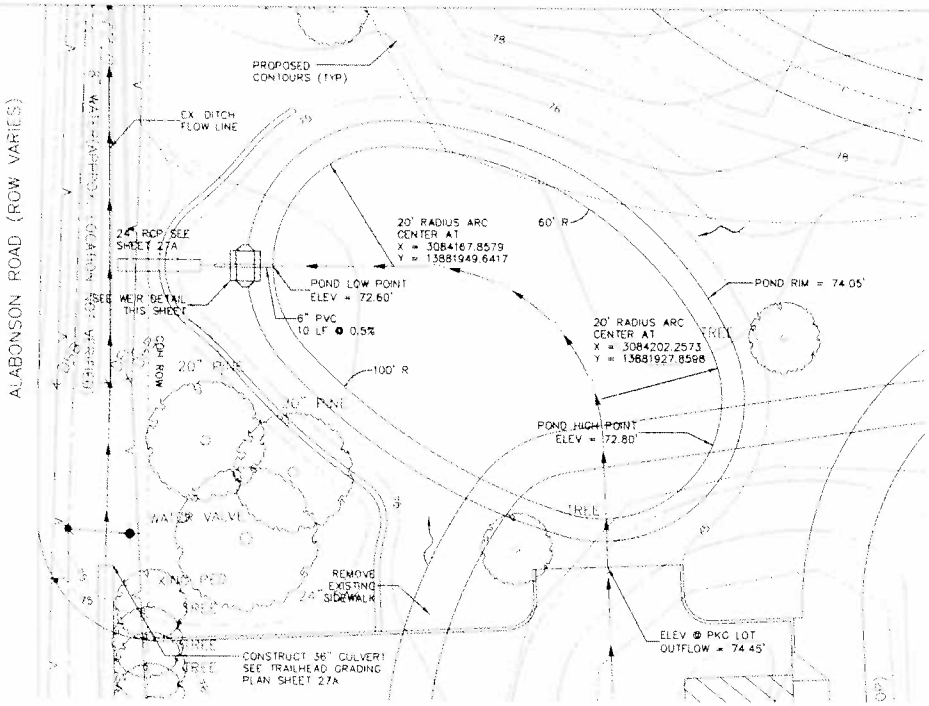
TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK

ALABONSON ROAD TRAILHEAD FIRE HYDRANT RELOCATION AND STORM PROFILE

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	PARKS
STREET & BRIDGE	
WBS NUMBER	**CITY DWG NO.**
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. 1"=2' HORIZ. 1"=20'	

SHEET NO. 27A OF 122



DETENTION POND LAYOUT

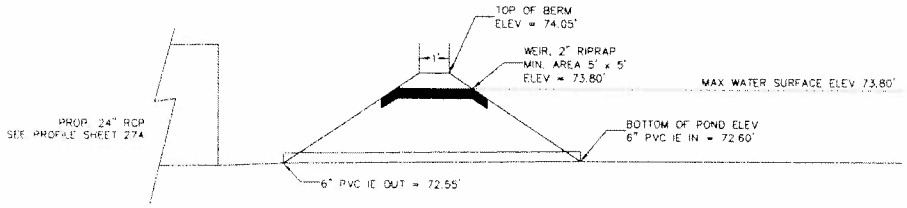
CAPACITY CALCULATIONS

NEW IMPERVIOUS COVER = 6300 SF (TRAILHEAD PARKING LOT)
REQUIRED DETENTION = 3150 CF (PER COH IDS)

BOTTOM OF POND AREA = 3160 SF
BOTTOM OF POND AVG ELEV = 72.7'
TOP OF POND AREA = 3890 SF
TOP OF POND AT WEIR = 73.8'
POND CAPACITY = 3880 CUBIC FEET

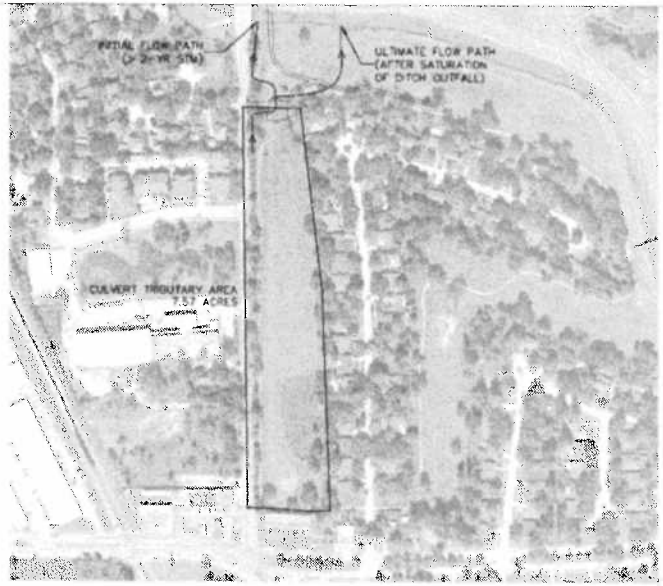
0 10 20
scale feet

PROPOSED DRAINAGE FLOW ARROW



WEIR

2V:1H



CULVERT SIZING (36")

MAP SCALE 1" = 100'

DESIGN VALUES

Tributary Area = 7.57 Acres (Rational Method Coeff = 0.18)
East Side Alabonson Ditch Slope = .0022 ft/ft (Manning's n = .025)
Culvert: IE in = 71.78, IE out = 71.67, 50 LF 36" RCP (Manning's n = .013)

CALCULATED VALUES

Time of Concentration = 17.14 Minutes

	2-year	100-year
Intensity	4.062 in/hr	8.045 in/hr
Discharge	31.006 cfs	61.408 cfs
Calc. Headwater	74.68'	76.76'

100-YEAR NOTE

Calculated HGL from HY-8 analysis is 76.76
When HGL reaches 75.19 (point 4, sheet 27), sheet flow will cross trailhead parking area and re-enter Alabonson ditch downstream of culvert
When HGL reaches 75.60 (point 54, sheet 27), sheet flow will cross bike trail (point 54, sheet 27) and enter White Oak Bayou directly

CULVERT SIZING (24")

DESIGN VALUES

Tributary Area = 6300 SF (Rational Method Coeff = 0.80)
East Side Alabonson Ditch Slope = .0022 ft/ft (Manning's n = .025)
Culvert: IE in = 72.00, IE out = 71.95, 15 LF 24" RCP (Manning's n = .013)

CALCULATED VALUES

Time of Concentration = 16.45 Minutes

	2-year	100-year
Intensity	4.134 in/hr	8.153 in/hr
Discharge	0.603 cfs	1.189 cfs
Calc. Headwater	72.44'	72.56'

5 NOTE: SHEET ADDED IN ADDENDUM 6

5 ADDENDUM 6

TRAFFIC ENGINEERS, INC.

STATE OF TEXAS
BRADLEY G. FAVERS
91759
LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley G. Favers P.E. 91759 on January 29, 2014
Traffic Engineers, Inc.
(281) 3158

Bradley G. Favers P.E. 91759

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

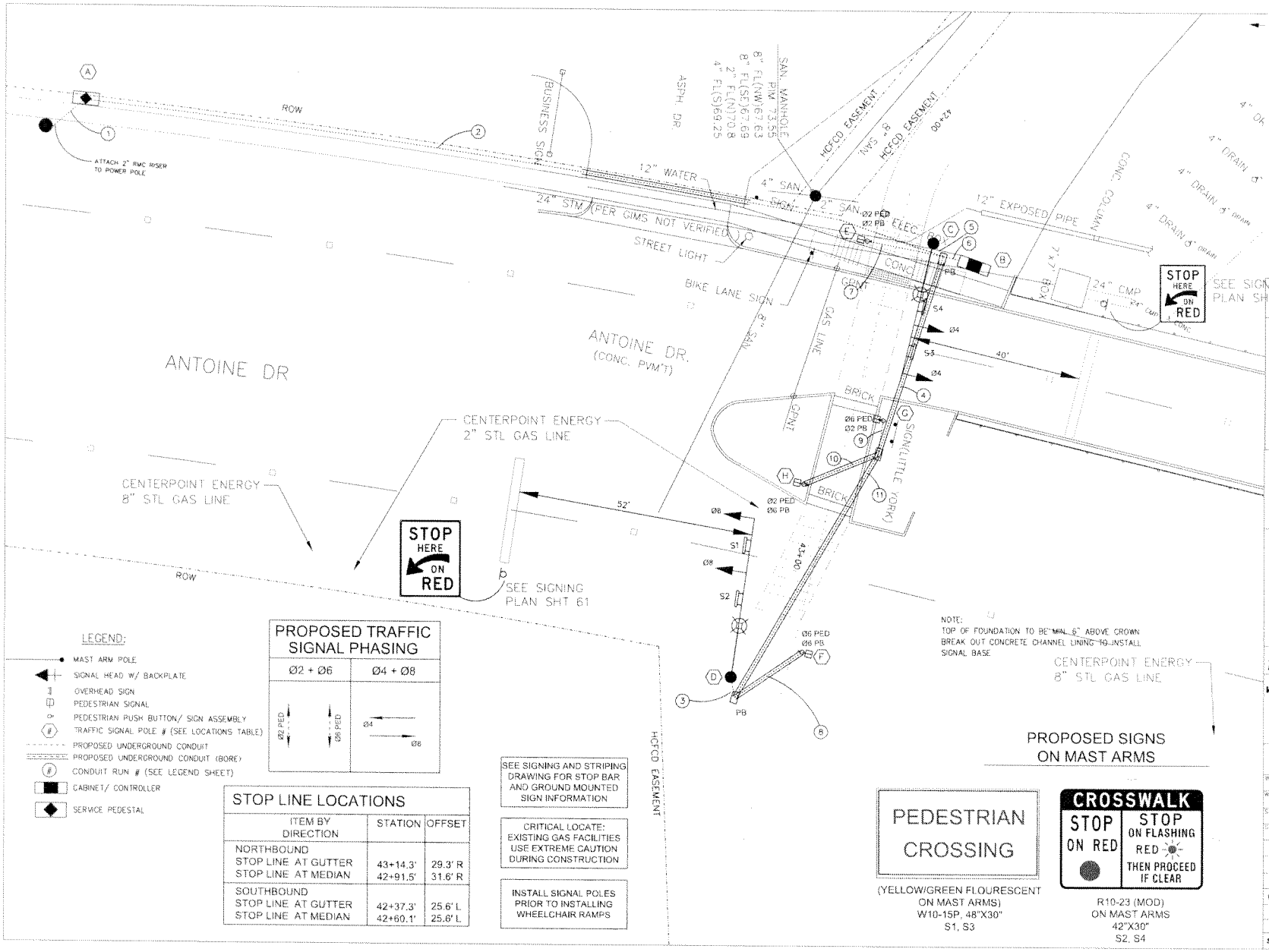
TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK

ALABONSON ROAD TRAILHEAD DETENTION DESIGN AND STORMWATER CALCULATIONS

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

MAYOR	TRAFFIC & TRANSPORTATION
MAYOR'S OFFICE	URBAN WATER QUALITY
CITY	ALDINE
CITY ENGINEER	
WBS NUMBER	CITY DWG NO.
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. N/A HORIZ. 1" = 10'	

SHEET NO. 27B OF 122



NOTE:
TOP OF FOUNDATION TO BE MIN. 6" ABOVE CROWN
BREAK OUT CONCRETE CHANNEL LINING TO INSTALL
SIGNAL BASE

PROPOSED SIGNS
ON MAST ARMS

LEGEND:

- MAST ARM POLE
- SIGNAL HEAD W/ BACKPLATE
- OVERHEAD SIGN
- PEDESTRIAN SIGNAL
- PEDESTRIAN PUSH BUTTON/ SIGN ASSEMBLY
- TRAFFIC SIGNAL POLE # (SEE LOCATIONS TABLE)
- PROPOSED UNDERGROUND CONDUIT
- PROPOSED UNDERGROUND CONDUIT (BORE)
- CONDUIT RUN # (SEE LEGEND SHEET)
- CABINET/ CONTROLLER
- SERVICE PEDESTAL

PROPOSED TRAFFIC SIGNAL PHASING

Ø2 + Ø6	Ø4 + Ø8
Ø2 PED, Ø6 PED	Ø4, Ø8

STOP LINE LOCATIONS

ITEM BY DIRECTION	STATION	OFFSET
NORTHBOUND		
STOP LINE AT GUTTER	43+14.3'	29.3' R
STOP LINE AT MEDIAN	42+91.5'	31.6' R
SOUTHBOUND		
STOP LINE AT GUTTER	42+37.3'	25.6' L
STOP LINE AT MEDIAN	42+60.1'	25.6' L

SEE SIGNING AND STRIPING DRAWING FOR STOP BAR AND GROUND MOUNTED SIGN INFORMATION

CRITICAL LOCATE: EXISTING GAS FACILITIES USE EXTREME CAUTION DURING CONSTRUCTION

INSTALL SIGNAL POLES PRIOR TO INSTALLING WHEELCHAIR RAMPS

PEDESTRIAN CROSSING

(YELLOW/GREEN FLOURESCENT ON MAST ARMS)
W10-15P, 48"X30"
S1, S3

CROSSWALK
STOP ON RED
STOP ON FLASHING RED THEN PROCEED IF CLEAR

R10-23 (MOD)
ON MAST ARMS
42"X30"
S2, S4

PRIVATE UTILITY LINES SHOWN

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CENTERPOINT ENERGY ELECTRIC FACILITIES DATE
APPROVED ONLY FOR CROSSING UNDERGROUND FACILITIES UNLESS OTHERWISE NOTED
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AT&T Texas/SWBT UTILITY LINES SHOWN DATE
Approved for AT&T Texas/SWBT Underground Conduit Facilities Only
Signature valid for one year

CENTERPOINT ENERGY GAS FACILITIES DATE
GAS SERVICE LINES ARE NOT SHOWN

TRAFFIC ENGINEERS, INC.

INNOVATIVE TRANSPORTATION SOLUTIONS
TRAFFIC REGISTRATION # F-3158
6324 SOUTHWEST FREEWAY, SUITE 200, HOUSTON, TX 77074
TEL (713) 270-6145

STATE OF TEXAS
BRADLEY G. EAVES
91759
LICENSED PROFESSIONAL ENGINEER

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Bradley G Eaves PE MSE MTP

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK

ANTOINE PEDESTRIAN HYBRID SIGNAL LAYOUT
(7100 BLOCK OF ANTOINE DR)

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
WBS NUMBER	CITY DWG NO.
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. N/A HORIZ. 1"=10'	

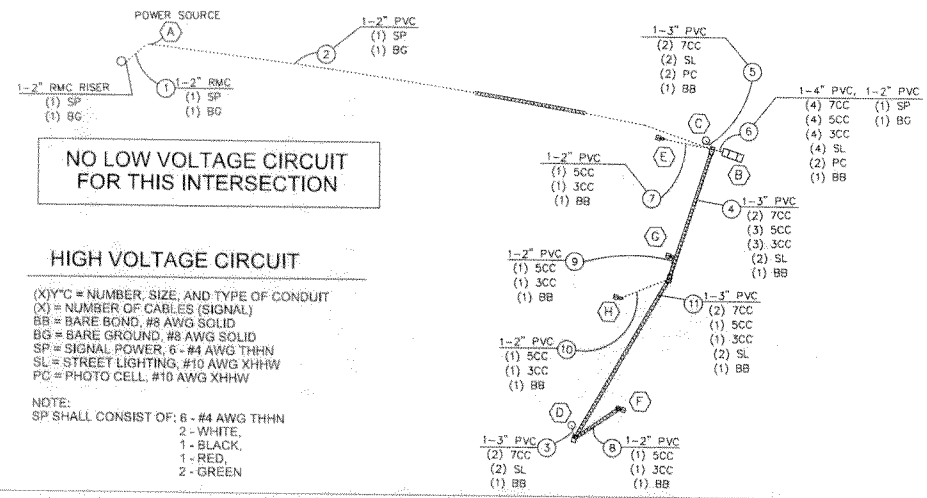
SHEET NO. 48 OF 122

POLE SCHEDULE

POLE NUMBER	POLE TYPE	MAST ARM SIGNAL	MAST ARM LUMIN	SIGNALS MTG.	SIGNALS FACE	LUMINAIRE TYPE	PED PB TYPE/SIGN	REMARKS	LOCATION	STANDARDS
C 12'	TYPE 1	30'	15'	2 - ASTROBRAC	2 - HAWK	250 W HPS W/PHOTOELECTRIC CELL ON POLE C		CROSSWALK SIGN (42X30) PEDESTRIAN CROSSING SIGN (48X30)	BY ENGINEER IN FIELD AT APPROX. POLE C - STA. 42+26.5, 7.8' RT	02893-02 02893-03 02893-04A 02893-04B 02893-05 02893-07
D 12'	TYPE 1	35'	15'	2 - ASTROBRAC	2 - HAWK	250 W HPS		CROSSWALK SIGN (42X30) PEDESTRIAN CROSSING SIGN (48X30)	BY ENGINEER IN FIELD AT APPROX. POLE D - STA. 43+29.4, 11.5' LT	02893-02 02893-03 02893-04A 02893-04B 02893-05 02893-07
E	15'			1 - PED	1 - CDP		POLARA NAVIGATOR R10-3e (L) OR APPROVED EQUAL		BY ENGINEER IN FIELD AT APPROX. POLE E - STA. 42+26.7, 5.6' RT	02893-02 02893-03 02893-07
F	15'			1 - PED	1 - CDP		POLARA NAVIGATOR R10-3g (L) OR APPROVED EQUAL		BY ENGINEER IN FIELD AT APPROX. POLE F - STA. 43+20.1, 1.7' LT	02893-02 02893-03 02893-07
G	15'			1 - PED	1 - CDP		POLARA NAVIGATOR R10-3e (L) OR APPROVED EQUAL		BY ENGINEER IN FIELD AT APPROX. POLE G - STA. 42+67.0, 6.2' LT	02893-02 02893-03 02893-07
H	15'			1 - PED	1 - CDP		POLARA NAVIGATOR R10-3e (L) OR APPROVED EQUAL		BY ENGINEER IN FIELD AT APPROX. POLE H - STA. 42+84.7, 6.2' RT	02893-02 02893-03 02893-07

TRAFFIC SIGNAL CONTROLLER

CABINET	TYPE	CONTROLLER	AUX. CONTROL	REMARKS	LOCATION	STANDARDS
A	UL TYPE 3R	METERED SERVICE PEDESTAL WITH 30 / 60 AMP CIRCUIT BREAKERS	-		BY ENGINEER IN FIELD AT APPROX. STA. 42+43.1', 179.2' RT. (TO CENTER OF CAB.)	02893-14
B	TYPE 346	2070L WITH GPS SERIAL COMMUNICATIONS MODULE	UNINTERRUPTED POWER SUPPLY THREE POLE STREET LIGHTING CONTACTOR	STANDARD SPECIFICATION 16730, 16731, 16732 & 16785	BY ENGINEER IN FIELD AT APPROX. STA 42+28.0', 17.7' LT. (TO CENTER OF THE CAB.)	02893-10B



NO LOW VOLTAGE CIRCUIT FOR THIS INTERSECTION

HIGH VOLTAGE CIRCUIT

(X)Y"C = NUMBER, SIZE, AND TYPE OF CONDUIT
(X) = NUMBER OF CABLES (SIGNAL)
BB = BARE BOND, #8 AWG SOLID
BG = BARE GROUND, #8 AWG SOLID
SP = SIGNAL POWER, 6 - #4 AWG THHN
SL = STREET LIGHTING, #10 AWG XHHW
PC = PHOTO CELL, #10 AWG XHHW

NOTE:
SP SHALL CONSIST OF: 6 - #4 AWG THHN
2 - WHITE,
1 - BLACK,
1 - RED,
2 - GREEN

ITS NOTES

1. THE CONTRACTOR SHALL MAINTAIN AND KEEP OPERATIONAL ALL INTELLIGENT TRANSPORTATION SYSTEMS (ITS) INFRASTRUCTURE DURING CONSTRUCTION. INFRASTRUCTURE INCLUDES, BUT IS NOT LIMITED TO, FIBER CABLE, COPPER, ETHERNET SWITCHES, WIMAX, BLUETOOTH, ETC. INTERRUPTION OF ITS OPERATIONS SHALL REQUIRE APPROVAL FROM THE CITY OF HOUSTON TRAFFIC OPERATIONS DIVISION / ITS SECTION A MINIMUM OF ONE WEEK IN ADVANCE. PLEASE CONTACT THE TRAFFIC OPERATIONS DIVISION / ITS SECTION FOR QUESTIONS AT 713.881.3172

2. THE ENGINEER SHALL IDENTIFY ALL EXISTING INTELLIGENT TRANSPORTATION SYSTEMS (ITS) INFRASTRUCTURE ON THE PLANS. INFRASTRUCTURE INCLUDES, BUT IS NOT LIMITED TO, FIBER CABLE, COPPER, ETHERNET SWITCHES, WIMAX, BLUETOOTH, ETC. IMPACTED INFRASTRUCTURE SHALL BE REINSTALLED OR REPLACED WITH EQUIPMENT MEETING THE LATEST CITY OF HOUSTON ITS SPECIFICATIONS. NEW COMMUNICATIONS INFRASTRUCTURE SHALL BE INCLUDED AT TRAFFIC SIGNALS WITHOUT EXISTING COMMUNICATIONS. PLEASE CONTACT THE TRAFFIC OPERATIONS DIVISION / ITS SECTION FOR QUESTIONS AT 713.881.3172

CONSTRUCTION NOTES

1. CONTRACTOR SHALL EXPOSE UTILITIES AS NEEDED TO DETERMINE POLE LOCATIONS.

2. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE GRADE OF PULL BOXES TO THE PROPOSED GRADE AS REQUIRED BY INSPECTOR. NO SEPARATE MEASURE OR PAYMENT WILL BE PROVIDED FOR THIS WORK.

3. CONTRACTOR IS RESPONSIBLE FOR ADJUSTMENTS TO GRADE OF ALL EXISTING WATER VALVES, MANHOLES AND ELECTRICAL BOXES WITHIN CONSTRUCTION AREAS. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE PROVIDED FOR THIS WORK.

PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-232-4567.

CENTERPOINT ENERGY/ELECTRIC FACILITIES — DATE
(APPROVED ONLY FOR CROSSING UNDERGROUND DUCTLINES UNLESS OTHERWISE NOTED) VALID AT TIME OF REVIEW ONLY

AT&T Texas/SWBT UTILITY LINES SHOWN — DATE
Approved for AT&T Texas/SWBT Underground Conduit Facilities Only
Signature valid for one year

CENTERPOINT ENERGY/GAS FACILITIES — DATE
GAS SERVICE LINES ARE NOT SHOWN

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INNOVATIVE TRANSPORTATION SOLUTIONS
TBPE REGISTRATION # F-3108
6323 SOUTHWEST FREEWAY, SUITE 200, HOUSTON, TX 77074
TEL (713) 270-8145

STATE OF TEXAS
BRADLEY G. EAVES
91759
LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley G. Eaves P.E. 91759 on August 16, 2013 Traffic Engineers, Inc. ID#F-3158

Bradley G Eaves PE PDE RTP

SURVEYED BY: LANDTECH CONSULTANTS
FB NO.

TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK
ANTOINE PEDESTRIAN HYBRID SIGNAL
POLE SCHEDULE & CABLE SCHEMATIC SHEET

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

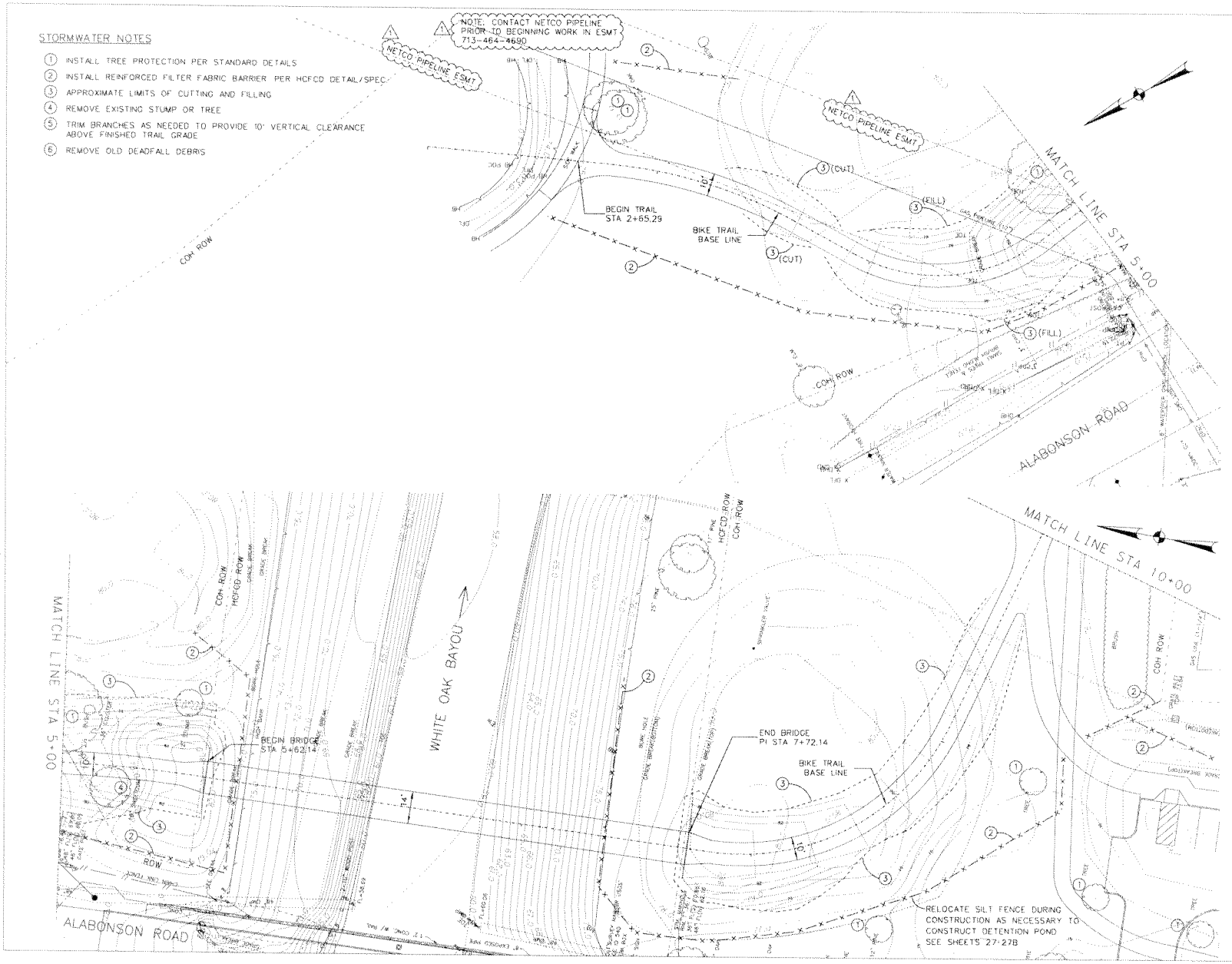
WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
WBS NUMBER	CITY DWG NO.
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. N/A HORIZ. N/A	

SHEET NO. 49 OF 122

3/28/2014 2:41:07 PM E:\Dropbox\Clients\Houston Parks Board\TIGER1-Antoine to Alabonson\Drawings\Antoine Ped\TIGER1-ANTOINE Ped-SCHEDULE.dgn

STORMWATER NOTES

1. INSTALL TREE PROTECTION PER STANDARD DETAILS
2. INSTALL REINFORCED FILTER FABRIC BARRIER PER HCFCD DETAIL/SPEC
3. APPROXIMATE LIMITS OF CUTTING AND FILLING
4. REMOVE EXISTING STUMP OR TREE
5. TRIM BRANCHES AS NEEDED TO PROVIDE 10' VERTICAL CLEARANCE ABOVE FINISHED TRAIL GRADE
6. REMOVE OLD DEADFALL DEBRIS



6 ADDENDUM 6

PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W OR EASEMENTS CALL THE LONE STAR NOTIFICATION (713-223-4567).

CENTERPOINT ENERGY ELECTRIC FACILITIES — DATE
APPROVED ONLY FOR CROSSING UNDERGROUND DUCTS PER UNDERGROUND FACILITIES NOTED VALID AT TIME OF REVIEW ONLY

AT&T Texas/SWBT UTILITY LINES SHOWN — DATE
Approved for AT&T Texas/SWBT Underground Conduit Facilities Only
Sig before redlining one year

CENTERPOINT ENERGY GAS FACILITIES — DATE
GAS SERVICE LINES ARE NOT SHOWN

TRAFFIC ENGINEERS, INC.
TRAFFIC ENGINEERS, INC.
TBPE REGISTRATION NO. F-3158
6325 SOUTHWEST FREEWAY, SUITE 200, HOUSTON, TX 77074
TEL (713) 270-8145

STATE OF TEXAS
BRADLEY G. EAVES
91759
PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley G. Eaves P.E. 91759 on January 23, 2014 Traffic Engineers, Inc. ID#F-3158

Bradley G. Eaves PE 91759 ATP

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

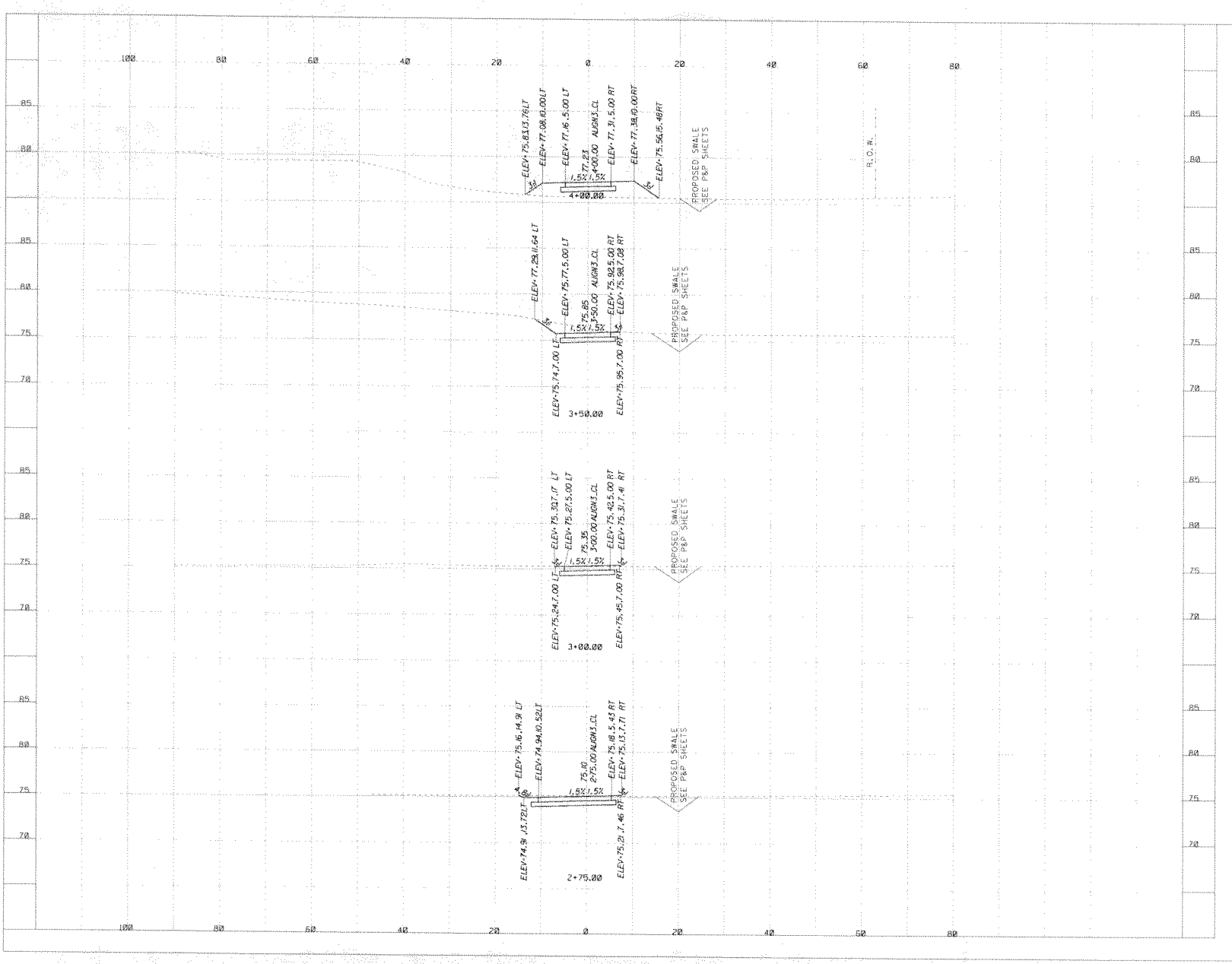
TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTOINE DRIVE LINK

STORMWATER POLLUTION PREVENTION PLAN
STA 2+00 TO 10+00

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
WBS NUMBER	**CITY DWG NO.**
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. N/A HORIZ. 1" = 20'	

SHEET NO. 81 OF 122



NOTE: RIGHT-OF-WAY LINES OMITTED WHERE GREATER THAN 30' FROM TRAIL CENTERLINE

PRIVATE UTILITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

CENTERPOINT ENERGY/ELECTRIC FACILITIES — DATE
(APPROVED ONLY FOR CROSSING UNDERGROUND ELECTRIC LINES ON ESE OTHERWISE NOTED)
VALID AT TIME OF REVIEW ONLY

AT&T Texas/SWBT UTILITY LINES DESIGN — DATE
Approved for AT&T Texas/SWBT Underground Conduit Facilities Only
Signature valid for one year

CENTERPOINT ENERGY/GAS FACILITIES — DATE
GAS SERVICE LINES ARE NOT SHOWN

TRAFFIC ENGINEERS, INC.
PARKING & TRAFFIC TRANSPORTATION SOLUTIONS
TBPE REGISTRATION # F-3158
8523 SOUTHWEST FREEWAY, SUITE 200, HOUSTON, TX 77074
TEL (713) 276-8146

VSAN CONSULTANT ENGINEERING, PLLC
GEOMATIC SOLUTIONS
TBPE FIRM F-13687
PHONE: (281) 397-1143 EMAIL: TEX@VSAN.NET

STATE OF TEXAS
BRADLEY C. EAVES
91759
LICENSED PROFESSIONAL ENGINEER

The seal appearing on this document was authorized by Bradley C. Eaves P.E. 91759 on July 26, 2013 Traffic Engineers, Inc. ID#F-3158

Bradley C Eaves PE 91759 07/26

SURVEYED BY:
LANDTECH CONSULTANTS
FB NO.

TIGER PROJECT #1
WHITE OAK PATH: ALABONSON ROAD TO ANTIONE DRIVE LINK

DESIGN CROSS SECTIONS
STA 2+75.00 TO STA 4+00.00

CITY OF HOUSTON
GENERAL SERVICES DEPARTMENT

WATER	TRAFFIC & TRANSPORTATION
WASTEWATER	STORM WATER QUALITY
STORM	FACILITIES
STREET & BRIDGE	
WBS NUMBER	CITY DWG NO.
F-TIGER4-0001-4	
DRAWING SCALE	
VERT. 1"=5' HORIZ. 1"= 10'	

SHEET NO. 90 OF 122

7/26/2014 2:42:42 PM E:\Houston\Liberty\Houston Parks Board\TIGER1-Antione to Alabonson\Drawings\14x17\TIGER1_XSSHTS_01-15.dwg