

# STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	STP 2021(929)TP		VA
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	FTW	TARRANT	1
CONTROL	SECTION	JOB	
0902	90	082	

## PLANS OF PROPOSED SIDEWALK IMPROVEMENTS

FEDERAL AID PROJECT  
FY 2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

PROJECT NO: STP 2021(929)TP  
CSJ: 0902-90-082  
COUNTY: TARRANT COUNTY  
LIMITS: ONE (1) QUARTER MILE RADII CIRCUMSCRIBING BONNIE BRAE ELEMENTARY SCHOOL, W.J. TURNER ELEMENTARY SCHOOL AND DIAMOND HILL ELEMENTARY SCHOOL

FOR WORK CONSISTING OF: INSTALLATION OF REINFORCED CONCRETE SIDEWALK, REINFORCED CONCRETE DRIVEWAYS, ADA CURB RAMPS, SIGNING, & PAVEMENT MARKINGS ALONG THE STREETS WITHIN ONE (1) QUARTER MILE RADII OF BONNIE BRAE ELEMENTARY SCHOOL, W.J. TURNER ELEMENTARY SCHOOL, & DIAMOND HILL ELEMENTARY SCHOOL.

FINAL PLANS

LETTING DATE: \_\_\_\_\_  
DATE CONTRACTOR BEGAN WORK: \_\_\_\_\_  
DATE WORK WAS COMPLETED & ACCEPTED: \_\_\_\_\_  
FINAL CONTRACT COST: \$ \_\_\_\_\_  
CONTRACTOR : \_\_\_\_\_

AZLE AVENUE	SCWARTZ AVENUE	DEEN ROAD
2017 AADT: 9,491	2015 AADT: 1,155	2017 AADT: 5,973
2037 AADT: 13,290	2037 AADT: 1,617	2037 AADT: 8,360
DESIGN SPEED: 30 MPH	DESIGN SPEED: 30 MPH	DESIGN SPEED: 30 MPH

NOTE:

1. TRAFFIC COUNTS TAKEN FROM TXDOT STATE WIDE PLANNING GIS MAP.
2. STREET DATA SHOWN ARE IN REGIONS WHERE PEDESTRIAN TRAFFIC SIGNALS ARE PROPOSED.

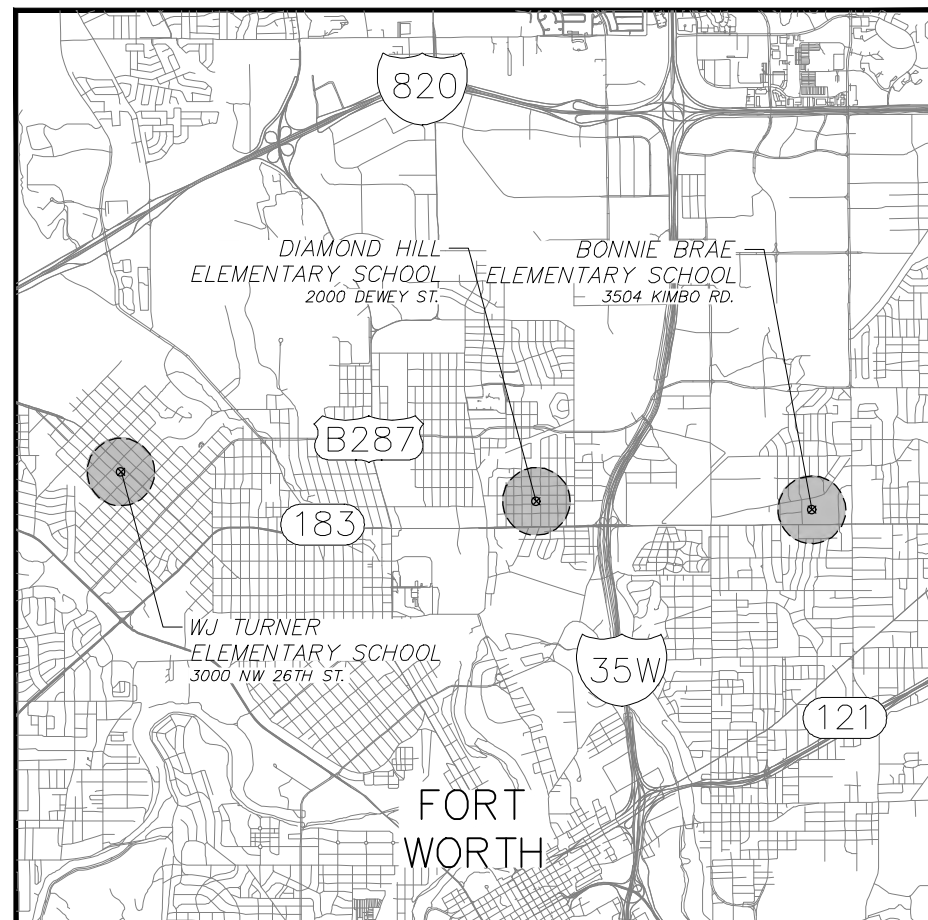
**JULY 2021**



CITY OF FORT WORTH  
PROJ NO: 101264

CITY OF FORT WORTH  
PROJ. MANAGER: CHAD ALLEN, P.E., C.F.M.

CITY OF FORT WORTH  
FILE NO.(S) ASSIGNED: K-2630



**LOCATION MAP**

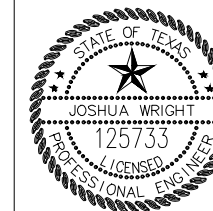
N.T.S.

NO EQUATIONS, NO EXCEPTIONS, NO RAILROAD CROSSINGS

TDLR INSPECTION REQUIRED  
TDLR NO. TABS2021010890 - DIAMOND HILL ES  
TDLR NO. TABS2021010892 - WJ TURNER ES  
TDLR NO. TABS2021010899 - BONNIE BRAE ES



550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107  
Tel: 817.335.1121  
(TX REG. F-1114)



SUBMITTED FOR LETTING: 7/27/21

*Joshua Wright*  
PROJECT MANAGER  
DUNAWAY ASSOCIATES

SEE SHEET 2  
FOR INDEX OF SHEETS

CONCURRENCE: Jul 29, 2021

*Linette Acavado, P.E.*  
TRANSPORTATION AND PUBLIC WORKS  
DIRECTOR, CITY OF FORT WORTH

CONCURRENCE: Jul 29, 2021

*Linette Acavado, P.E.*  
TRANSPORTATION AND PUBLIC WORKS  
PROGRAM MANAGER  
CITY OF FORT WORTH



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SUBMITTED FOR LETTING: 8/6/2021  
DocuSigned by: *phue*

7B89CC87CF28471...  
AREA ENGINEER

RECOMMENDED FOR LETTING: 8/13/2021  
DocuSigned by: *Paula...*

7879B0B92E5D403...  
DIRECTOR OF TRANSPORTATION PLANNING & DEVELOPMENT

APPROVED FOR LETTING: 8/18/2021  
DocuSigned by: *Carl H. Johnson, PE*

2FE36139F0614C3...  
DISTRICT ENGINEER

APPROVED FOR LETTING

DIRECTOR, TRAFFIC OPERATIONS DIVISION

APPROVED FOR LETTING

DIRECTOR, DESIGN DIVISION

COUNTY: TARRANT  
PROJECT NO.:  
HIGHWAY NO.:  
DATE ACCEPTED:  
LETTING DATE:

ALL CONSTRUCTION SHOWN IN THESE PLANS WILL REQUIRE COMPLIANCE TO TXDOT STANDARD SPECIFICATIONS, STANDARD PLANS, AND TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE SHOWN.

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, NOVEMBER 1, 2014, AND SPECIFICATION ITEMS LISTED AS FOLLOWS SHALL GOVERN ON THIS PROJECT, REQUIRED CONTRACT PROVISIONS FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

### EXISTING LEGEND

---	PROPERTY LINE AND RIGHT-OF-WAY
- - - - -	EASEMENT LINE
• IRF	IRON ROD FOUND
⊕	BENCH MARK OR CONTROL POINT
⊙	UTILITY POLE
⊙	LIGHT POLE
⊙	GUY WIRE
⊙	STEEL POLE & MAST ARM
⊙	PEDESTAL POLE
⊙	EXISTING SIGN
⊙	FLAG POLE
⊙	MAIL BOX
⊙	BOLLARD, GATE POST
⊙	TELEPHONE RISER
⊙	WATER METER
⊙	WATER VALVE
⊙	IRRIGATION VALVE
⊙	SPRINKLER VALVE
⊙	SPRINKLER HEAD
⊙	FIRE HYDRANT
⊙	GAS METER
⊙	STORM DRAIN MANHOLE
30" RCP	STORM DRAIN PIPE
⊙	SANITARY SEWER MANHOLE
⊙	SANITARY SEWER CLEANOUT
⊙	SIGNAL BOX
⊙	CABLE BOX
⊙	WOOD FENCE
⊙	IRON FENCE
⊙	CHAIN LINK FENCE
⊙	WIRE FENCE
⊙	SHRUB
⊙	TREE
⊙	BUILDING
⊙	CONC CURB & GUTTER
⊙	EDGE OF ASPHALT
⊙	EDGE OF GRAVEL
EX-OHE	OVERHEAD ELECTRIC
EX-UE	UNDERGROUND ELECTRIC
EX-T	UNDERGROUND TELEPHONE
EX-SS	SANITARY SEWER
EX-W	WATER LINE
EX-GAS	GAS LINE
EX-FO	UNDERGROUND FIBER OPTIC CABLE
EX-UGC	UNDERGROUND CABLE

### LEGEND

	PROPOSED 6" CONC. DRIVEWAY PAVEMENT
	PROPOSED 4" SETBACK SIDEWALK (5' WIDE)
	PROPOSED HMAC
	PROPOSED 4" SIDEWALK ADJACENT TO BACK OF CURB (6' WIDE)
	PROPOSED CONC. SIDEWALK (SPECIAL) (RETAIN. WALL) - PLAN
	PROPOSED CONC. SIDEWALK (SPECIAL) (RETAIN. WALL) - PROFILE
	PROPOSED BLOCK SOD

### ABBREVIATIONS

BC	BACK OF CURB
BM	BENCH MARK
BW	BOTTOM OF WALL
CI	CURB INLET
CP	CONTROL POINT
D.R.T.C.T.	DEED RECORDS TARRANT COUNTY TEXAS
ELEV	ELEVATION
EG	EXISTING GRADE ELEVATION
FC	FACE OF CURB
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE
GT	GUTTER
HGL	HYDRAULIC GRADE LINE
LAT	LATERAL
LF	LINEAR FEET
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PGL	PROPOSED GRADE LINE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVATURE
PVT	POINT OF VERTICAL TANGENCY
RP	RADIUS POINT
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SDWK	SIDEWALK
STD	STANDARD
STA	STATION
SS	SANITARY SEWER
TC	TOP OF CURB
TG	TOP OF GRATE
TOF	TOP OF FOUNDATION
TOP	TOP OF PIPE
TOW	TOP OF WALL
YR	YEAR

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DATE	BY	REV	REVISION

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Fort Worth, TX 76107  
817-335-1121

**FORT WORTH**

PROJ NO. 101264

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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

## INDEX & LEGEND

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
6	TEXAS	STP 2021(929)TP	VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
FTW	TARRANT	0902	90
			JOB NO.
			082
			SHEET NO.
			2

Project Number: STP 2021(929)TP

Sheet A

County: TARRANT

Control: 0902-90-082

Highway: Various

Specification Data

**Basis of Estimate**

Item	Description	Rate	Unit
168	Vegetative Watering	169,400 gal./acre	1,000 gal.
340	Hot Mix (All Types)	115 lb./sq. yd.-in.	ton

**Special Notes**

Electronic Files containing answered pre-letting questions and other project related design information will be placed in the following FTP site periodically.

Check this site for new information. Notices of new postings will not be sent out by the Engineer.

The data located in these files is for non-construction purposes only and can be found at:

TxDOT's public FTP site at <https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting responses/>

Access is read only.

All files in the FTP site are subject to the License Agreement shown on the FTP site.

To obtain a copy of the project plans free of charge, submit a request from the following site:

<http://www.txdot.gov/business/letting-bids/plans-online.html>

Contractor questions on this project are to be addressed to the following individual(s):

Area Engineer's Email: [Minh.Tran@txdot.gov](mailto:Minh.Tran@txdot.gov)

Assistant Area Engineer's Email: [James.Bell@txdot.gov](mailto:James.Bell@txdot.gov)

Design manager's Email:

Contractor questions will be accepted through email, phone, and in person by the above individuals.

General Notes

Sheet A

Project Number: STP 2021(929)TP

Sheet B

County: TARRANT

Control: 0902-90-082

Highway: Various

All contractor questions will be reviewed by the Engineer. Once a response is developed, it will be posted to TxDOT's Public FTP at the following Address: <https://ftp.dot.state.tx.us/pub/txdot-info/Pre-Letting Responses/>

All questions submitted that generate a response will be posted through this site. The site is organized by District, Project Type (Construction or Maintenance), Letting Date, CCSJ/Project Name.

Single lane closures, except as otherwise shown in the plans, will be restricted to off-peak hours as defined in the following table:

Peak Hours		Off-Peak Hours	
7 to 9 AM Monday through Friday	4 to 6 PM Monday through Friday	9 AM to 3 PM and 7 PM to 6 AM Monday through Friday	All day Saturday and Sunday

Work that requires closure of multiple travel lanes in the same direction, except as otherwise shown in the plans, are restricted to night hours between 9 PM and 6 AM.

Existing storm sewers and utilities are shown from the best available information. Verify the location of all underground facilities prior to starting work.

For dimensions of right-of-way not shown on the plans, see right-of-way map on file at the TxDOT District Office.

**Modifications to Lane Closure / Work Restrictions:**

Submit a request in writing for approval by the Engineer a minimum of 10 days in advance of implementing a change to lane closure restrictions.

When deemed necessary, the Engineer will lengthen, shorten, or otherwise modify lane closure restrictions as traffic conditions warrant.

When deemed necessary, the Engineer will modify the list of major events when new events develop, existing events are rescheduled, or when warranted.

Special Events/ Special Situations will be handled on a case-by-case basis. No work restricting lane closures is allowed from 3 PM a day before to 9 AM the day after the Special Event or Special Situation.

General Notes

Sheet B



PROJECT ENGINEER  
*Joshua Wright*  
DATE 6/11/2021

DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
Suite 400  
Fort Worth, TX 76107  
817-335-1121  
(TX REG-F-1114)

**FORT WORTH**  
PROJ NO. 101264 FILE NO. K-2630

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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

GENERAL NOTES

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	3A

Project Number: STP 2021(929)TP

Sheet C

County: TARRANT

Control: 0902-90-082

Highway: Various

The following Holiday/Event lane closure restriction requirements apply to this project:  
 No work that restricts or interferes with traffic shall be allowed between 3 PM on the day preceding a Holiday or Event and 9 AM on the day after the Holiday or Event.

Holiday Lane Closure Restrictions	
<b>New Year's Eve and New Year's Day</b> (December 31 through January 1)	3 PM December 30 through 9 AM January 2
<b>Easter Holiday Weekend</b> (Friday through Sunday)	3PM Thursday through 9 AM Monday
<b>Memorial Day Weekend</b> (Friday through Monday)	3 PM Thursday through 9 AM Tuesday
<b>Independence Day</b> (July 3 through July 5)	3 PM July 2 through 9 AM July 6
<b>Labor Day Weekend</b> (Friday through Monday)	3 PM Thursday through 9 AM Tuesday
<b>Thanksgiving Holiday</b> (Wednesday through Sunday)	3 PM Tuesday through 9 AM Monday
<b>Christmas Holiday</b> (December 23 through December 26)	3 PM December 22 through 9 AM December 27

Plan work schedules around the appropriate dates above to ensure productive work is performed without lane closures.

**Modifications to Lane Closure / Work Restrictions:**

Submit a request in writing for approval by the Engineer a minimum of 10 days in advance of implementing a change to lane closure restrictions.

When deemed necessary, the Engineer will lengthen, shorten, or otherwise modify lane closure restrictions as traffic conditions warrant.

When deemed necessary, the Engineer will modify the list of major events when new events develop, existing events are rescheduled, or when warranted.

Special Events/ Special Situations will be handled on a case-by-case basis. No work restricting lane closures is allowed from 3 PM a day before to 9 AM the day after the Special Event or Special Situation.

General Notes

Sheet C

Project Number: STP 2021(929)TP

Sheet D

County: TARRANT

Control: 0902-90-082

Highway: Various

**Prevention of Migratory Bird Nesting**

It is anticipated that migratory birds, a protected group of species, may try to nest on bridges, culverts, vegetation, or gravel substrate, at any time of the year. The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season. Otherwise, avoid nests containing migratory birds and perform no work in the nesting areas until the young birds have fledged.

**Structures**

Do not begin bridge and culvert construction operations until swallow nesting prevention is implemented, until after October 1 if it's determined that swallow nesting is actively occurring, or until it's determined swallow nests have been abandoned. If the State installed nesting deterrent on the bridges and culverts, maintain the existing nesting deterrent to prevent swallow nesting until October 1 or completion of the bridge and culvert work, whichever occurs earlier. If new nests are built and occupied after the beginning of the work, do not perform work that can interfere with or discourage swallows from returning to their nests. Prevention of swallow nesting can be performed by one of the following methods:

1. By February 15 begin the removal of any existing mud nests and all other mud placed by swallows for the construction of nests on any portion of the bridge and culverts. The Engineer will inspect the bridges and culverts for nest building activity. If swallows begin nest building, scrape or wash down all nest sites. Perform these activities daily unless the Engineer determines the need to do this work more frequently. Remove nests and mud through October 1 or until bridge and culvert construction operations are completed.
2. By February 15 place a nesting deterrent (which prevents access to the bridge and culvert by swallows) on the entire bridge (except deck and railing) and culverts.

No extension of time or compensation payment will be granted for a delay or suspension of work caused by nesting swallows. This work is subsidiary to the various bid items.

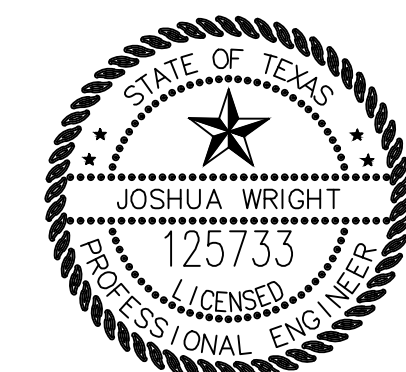
The Contractor's attention is directed to the following list of temporary easements and their expiration dates:

Parcel Number	Expiration Date
None	

Complete all work in these easement areas prior to the expiration dates shown. In the event that work is done after these expiration dates, all costs for extending these dates will be paid by the Contractor.

General Notes

Sheet D



*Joshua Wright*  
 PROJECT ENGINEER  
 DATE: 6/11/2021

DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
 Suite 400  
 Fort Worth, TX 76107  
 817-335-1121  
(TX REG-F-1114)

**FORT WORTH**  
 PROJ NO. 101264 FILE NO. K-2630

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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

GENERAL NOTES

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	3B

Project Number: STP 2021(929)TP

Sheet E

County: TARRANT

Control: 0902-90-082

Highway: Various

Remove all existing fences within the right of way and remove and replace all existing fences within easements where such fences conflict with the work. Protect the remaining fence from damage due to slacking. Erect temporary fencing in the easement areas as necessary to secure the property. Provide at least one week notice to the property owner prior to removing or relocating the fence. Restore permanent fencing to an equal or better condition.

Mail box manipulation made necessary because of construction will be in accordance with Item 560 "Mailbox Assemblies," except that this work will not be paid for directly but will subsidiary to the pertinent bid items.

Provide all-weather surface for temporary ingress and egress to adjacent property, as directed. Materials, labor, equipment and incidentals necessary to provide temporary ingress and egress will not be paid for directly but will be subsidiary to the various bid items.

Where necessary, the governing slopes indicated herein may be varied from the limits shown, to the extent approved.

On superelevated curves the shoulders will have the same cross-slope as the pavement, unless otherwise indicated.

On superelevated curves where the grade line is in a sag or on a flat grade, overlay the shoulders to the extent necessary to prevent trapping of water on the high side.

All driveway openings will be determined by the Engineer and will conform with Texas Department of Transportation "Regulations for Access Driveways to State Highways" adopted September 1953, and revised June 2004.

Locations and lengths of all private entrances are approximate only. The actual locations, lengths, lines, and grades are to be established in the field.

Locations and lengths of all private entrances are approximate only. The actual locations, lengths, lines and grades are to be determined by the Engineer and shall conform to the regulations of The City of Fort Worth.

Do not discolor or damage existing curb and curb and gutter during construction operations. In the event of discoloration or damage, clean or repair as directed.

Remove the grass from the crown of shoulders or pavement edges by blading or other approved methods. Payment for this work will not be made directly but will be subsidiary to the various items of the contract.

General Notes

Sheet E

Project Number: STP 2021(929)TP

Sheet F

County: TARRANT

Control: 0902-90-082

Highway: Various

The City will perform certain preliminary work and will complete the work in such sequence and manner that the Contractor will be able to begin his work at the specified time.

The State will perform certain preliminary work and will complete the work in such sequence and manner that the Contractor will be able to begin his work at the specified time.

**Item 100. Preparing Right of Way**

Measurement for this item will be along the centerline of the project with the limits of measurements as shown on the plans.

**Item 105. Removing Treated and Untreated Base and Asphalt Pavement**

Cement, lime, and/or lime fly-ash treated base material removed on this project will become the property of the Contractor.

**Item 110. Excavation**

Review proposed waste sites to determine if any site is located in a "Base Floodplain" or "Floodway" as defined by the Federal Emergency Management Agency (FEMA).

If waste material from this project is placed in a base floodplain as defined by FEMA, obtain a permit from the local community responsible for enforcing National Flood Insurance Program (NFIP) regulations. Ensure that the owner of the property receiving the waste has obtained the necessary permit.

**Item 162. Sodding for Erosion Control**

Furnish and place Bermudagrass sod. To obtain an estimate on quantities, it was assumed to replace 3' of sod on either side of the proposed sidewalk.

**Item 168. Vegetative Watering**

Furnish and install an approved rain gauge at the project site, as directed. Furnishing and installation of the rain gauge will not be paid for directly but will be subsidiary to Item 168.

General Notes

Sheet F



PROJECT ENGINEER  
DATE 6/11/2021

DATE	BY	REV	REVISION

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Suite 400  
Fort Worth, TX 76107  
817-335-1121

**FORT WORTH**  
PROJ NO. 101264 FILE NO. K-2630

Texas Department of Transportation  
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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

GENERAL NOTES

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	3C

Project Number: STP 2021(929)TP

Sheet G

County: TARRANT

Control: 0902-90-082

Highway: Various

Apply vegetative watering for an establishment period of thirteen weeks following application of seed or installation of sod, at a rate of 1/2 inch of water depth per week (approximately 13,030 gallons per acre). During the first four weeks after seeding, apply water twice per week, on non-consecutive days, each at half the weekly application rate. For the remainder of the establishment period, apply vegetative watering once per week during the months of January through June or September through December, at the weekly application rate; apply watering twice per week, on non-consecutive days during the months of July and August, each at one-half the weekly application rate.

Average weekly rainfall rates for the District are:

January—0.39"	April—0.86"	July—0.48"	October—0.68"
February—0.46"	May—1.00"	August—0.47"	November—0.46"
March—0.48"	June—0.63"	September—0.74"	December—0.37"

**Item 340. Dense-Graded Hot-Mix Asphalt (Small Quantity)**

Provide aggregate with a Surface Aggregate Classification (SAC) value of C for the travel lanes and shoulders.

Provide a PG 64-22 asphalt for the base course.

Provide a PG 64-22 asphalt for the concrete underlayment course.

Furnish a CSS-1P with greater than 50% asphalt residue for the tack coat on this project. A trackless tack can be used in lieu of CSS-1P tack coat or as directed by the Engineer. The Engineer will set the rate at time of application.

Warm Mix Asphalt (WMA) is not permitted in any mix type on this project.

RAP and RAS are not permitted in any surface and levelup mixes on this project.

Substitute binders are not allowed on this project.

Use only the Superpave Gyratory Compactor (SGC) to design the mixture.

Use the Boil Test, Test Procedure Tex-530-C, and provide only mixes that produce zero percent (0%) stripping for design verification and during production.

Include the approved mix design number on each delivery ticket.

Use a Material Transfer Device (MTD) unless otherwise directed.

General Notes

Sheet G

Project Number: STP 2021(929)TP

Sheet H

County: TARRANT

Control: 0902-90-082

Highway: Various

Stop production after Lot 1. Review all test data and confirm any changes with the Engineer. Do not start production and placement on subsequent Lots until approved by the Engineer.

Shoulders, crossovers, and other areas listed on the Plan sheets or as directed are not subject to in-place air void determination for this project.

Temporary detours are subject to in-place air void determination for this project.

Use Surface Test Type B for this project.

Ride quality is not required on this project.

**Item 360. Concrete Pavement**

When using the Hardy Chair-Lok to support reinforcing steel, chair spacing may be increased to 1.67 sq. yd. per chair, placed in a diamond or square pattern. Do not exceed 60" longitudinal spacing.

The provisions of Article 360.6.2, "Deficient Thickness Adjustment," will not be a requirement and the pavement will not be cored.

Include the approved mix design number on each delivery ticket.

**Item 502. Barricades, Signs, and Traffic Handling**

Permanent signs may be installed when construction in an area is complete and they will not conflict with the traffic control plan for the remainder of the job.

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

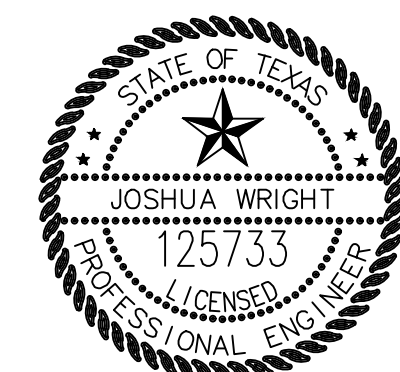
Any sign not detailed in the plans but called for in the layout will be as shown in the current "Standard Highway Sign Designs for Texas".

When traffic is obstructed, arrange warning devices in accordance with the latest edition of the "Texas Manual on Uniform Traffic Control Devices".

Cover or remove any work zone signs when work or condition referenced is not occurring.

General Notes

Sheet H



Project Engineer  
DATE 6/11/2021

DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
Suite 400  
Fort Worth, TX 76107  
817-335-1121  
(TX REG-F-1114)

**FORT WORTH**  
PROJ NO. 101264 FILE NO. K-2630

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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

GERNEAL NOTES

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	3D

Project Number: STP 2021(929)TP

Sheet I

County: TARRANT

Control: 0902-90-082

Highway: Various

Do not place barricades, signs, or any other traffic control devices where they interfere with sight distance at driveways or side streets. Provide access to all driveways during all phases of construction unless otherwise noted in the plans or as directed.

**Item 506. Temporary Erosion, Sedimentation, and Environmental Controls**

The SW3P for this project will consist of using the following items as directed:

- Erosion control logs

Remove accumulated sediment or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

**Items 530 And 531. Intersections, Driveways and Turnouts, and Sidewalks**

The furnishing and installation of the sand cushion in proposed sidewalks, sidewalk ramps, and driveways will not be paid for directly but will be subsidiary to this bid item.

**Item 666. Reflectorized Pavement Markings with Retroreflective Requirements**

Collection of retroreflectivity readings using a mobile retroreflectometer is the preferred method. If retroreflectivity readings are collected using a portable or handheld unit, then measurement is defined as a collective average of at least 20 readings taken along a 200-foot test section. A minimum of three measurements will be required per mile of roadway. Measurements collected on a centerline stripe will be averaged separately for stripe in each direction of travel. A TxDOT inspector must witness the calibration and collection of all retro-reflectivity data.

General Notes

Sheet I

Project Number: STP 2021(929)TP

Sheet J

County: TARRANT

Control: 0902-90-082

Highway: Various

**Item 672**  
Place all adhesive material directly from the heated dispenser to the pavement. Do not use portable or non-heated containers. Use adhesive of sufficient thickness so that when the marker is pressed into the adhesive, 1/8" or more adhesive will remain under 100% of the marker. The adhesive should extend not less than 1/2" but not more than 1 1/2" beyond the perimeter of the marker.

**Item 677**  
Obtain approval before using the mechanical method for the elimination of existing thermoplastic pavement markings.

**Item 680**  
Furnish and install all required materials and equipment necessary for the complete and operating traffic signal installation at the following intersections:  
Robinson Street & Azle Avenue

The locations shown on the plans for signal pole foundations, controller foundations, conduit and other items may be adjusted to better fit field conditions as approved.  
Demonstrate that the field wiring is properly installed, install the controller assembly, connect the wiring and turn on the controller.

**Item 682**  
Provide all signal heads from the same manufacturer. Pedestrian signals may be by a different manufacturer than the vehicle signal heads.

Furnish black housing for vehicle and pedestrian signals. Furnish black vehicle signal head back plates.

Furnish black housing for vehicle and pedestrian signals. Door and visor to match the mast arm and pedestrian pole color. Furnish black vehicle signal head back plates.

Cover all signal faces until placed in operation.

All pedestrian signal faces shall be single section LED Type. Die cast polycarbonate is acceptable in lieu of die cast aluminum. All mounting attachments shall be constructed of steel pipe and mounted as shown on the plans.

General Notes

Sheet J

Project Number: STP 2021(929)TP

Sheet K

County: TARRANT

Control: 0902-90-082

Highway: Various

For all proposed mast arm pole assemblies, use mounting bracket assembly Option "C" as shown on the State Standard Sheet(s) "Single Mast Arm Assemblies".

**Item 684**  
Provide an extra 10' for each cable terminating in the controller cabinet. All cables shall be continuous without splices from terminal point to terminal point. All proposed signal cable shall be #12 AWG stranded copper.

**Item 686 & 687**  
Provide all signal poles from the same manufacturer. Pedestrian poles may be from a different manufacturer.

Furnish black powder coated pedestrian poles and traffic signal poles and arms with clear coat finish and UV inhibitors. The black color shall be #17038 from the Federal Standard 595B Color Chart. All attachments to the pole shall be painted black. Apply powder coated finish over the galvanized surface. Prepare galvanized surfaces for powder coating in accordance with the powder coating manufacturer's recommendations. Do not water- quench or chromate- quench galvanized surfaces to be powder coated. After preparing galvanized surfaces, powder coat with a minimum of 2.0 mils dry film thickness (DFT) of urethane powder or triglycidyl isocyanurate (TGIC) polyester powder. Provide powder coat adhesion meeting the 5A or 5B classifications of ASTM D3359. Ensure powder coating is uniform in appearance and free of scratches.

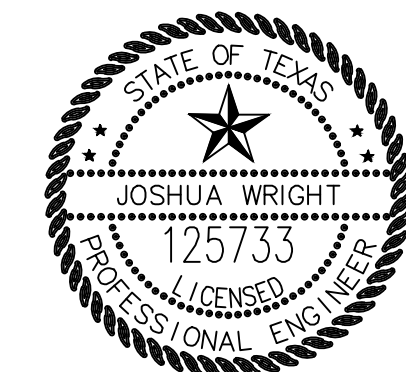
**Item 688**  
The sealant used for vehicle loop wire must be approved.

The pedestrian push button shall be raised or flush and a minimum of 2 inches in the smallest dimension. The force to activate the control shall be no greater than 5 lb/f. The button placement has to be coordinated with the concrete pad to access the button. The concrete pad (if required) shall be paid separately.

The pedestrian push button shall be wired with a 2/C#14 loop detector cable in lieu of a #12 A.W.G. XHHW wire.

General Notes

Sheet K



PROJECT ENGINEER  
*Joshua Wright*  
 DATE 7/8/2021

DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
 Suite 400  
 Fort Worth, TX 76107  
 817-335-1121  
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**FORT WORTH**  
 PROJ NO. 101264 FILE NO. K-2630

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GENERAL NOTES

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	3E

**GENERAL NOTES**

FROM CITY OF FORT WORTH STANDARD CONSTRUCTION GENERAL NOTES, VERSION RELEASE: DECEMBER 18, 2017

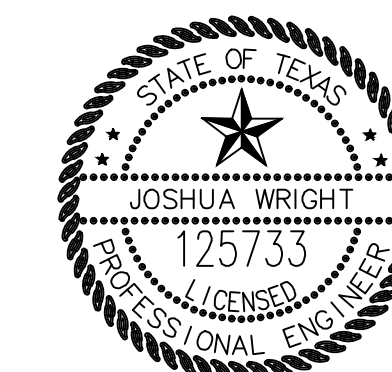
**TREE DAMAGE ASSESSMENT:**

**ASSESSMENT OF DAMAGE TO TREES:**

1. NO PRUNING OF ANY CITY TREE SHALL BE PERMITTED, UNLESS SPECIFIED OTHERWISE IN THESE SPECIFICATIONS. SEVERE DAMAGE TO TREES WILL RESULT IN REPLACEMENT OR COMPENSATION OF TREES BY THE CONTRACTOR. FAILURE TO REPLACE DAMAGED TREES SHALL BE CONSIDERED A BREACH OF CONTRACT AND CONTRACTOR SHALL BE ASSESSED FOR DAMAGES. SLIGHT OR MODERATE DAMAGE TO TREES WILL RESULT IN ASSESSMENT OF DAMAGES.
  - 1.1. THE CONTRACTOR WILL CHECK TREES IN THE CONTRACT AREA BEFORE CONTRACT WORK BEGINS, ANY DAMAGE WILL BE NOTED AND REPORTED TO THE CONTRACT ADMINISTRATOR.
  - 1.2. THE CONTRACT ADMINISTRATOR WILL CONDUCT RANDOM CHECKS OF THE TREES DURING THE CONTRACT PERIOD.
  - 1.3. A CHECK OF ALL TREES MAY BE MADE AT THE END OF THE CONTRACT PERIOD. CITY FORESTER, CONTRACT ADMINISTRATOR, AND CONTRACTOR WILL ATTEND THE INSPECTION.
  - 1.4. DAMAGES SHALL BE DOCUMENTED BY MEMO TO THE CITY FORESTER WITH COPY TO CONTRACT FILE AND THE CONTRACTOR.
  - 1.5. CONTRACTOR MAY HAVE THE OPTION OF REPLACEMENT OR PAYMENT FOR SEVERELY DAMAGED TREES AT A LOCATION TO BE DESIGNATED BY PARD. REPLACEMENT SHALL BE MADE ON CALIPER INCH PER CALIPER INCH BASIS WITH A MINIMUM SIZE OF REPLACEMENT TREE OF 2" IN CALIPER FOR TREES DAMAGED OR REMOVED LESS THAN 30" DBH AND 2" PER INCH ON TREES 30" DBH OR GREATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTING, WATERING, MULCHING, AND MAINTENANCE OF REPLACEMENT TREES FOR A PERIOD OF NOT LESS THAN 2 YEARS. ANY TREE THAT DOES NOT SURVIVE THE 2 YEAR ESTABLISHMENT PERIOD SHALL BE COMPENSATED FOR BY THE CONTRACTOR TO PARD TREE FUND AT A RATE OF \$200 PER CALIPER INCH.
  - 1.6. SLIGHT DAMAGE SHALL BE DEFINED AS DAMAGE, IN THE OPINION OF THE CITY FORESTER THAT MAY HEAL. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO: SCARING OF THE TRUNK INTO THE CAMBIAL LAYER 1/2" TO 2" IN WIDTH BUT LESS THAN 1/3 TRUNK CIRCUMFERENCE OR BREAKING OF LIMBS LESS THAN 2" IN DIAMETER OR LIMBS LESS THAN 1/3 TRUNK CALIPER, WHICHEVER IS LESS. SLIGHT DAMAGE SHALL ALSO INCLUDE REMOVAL OR LYING DOWN OF PROTECTIVE TREE FENCING PRIOR TO END OF CONSTRUCTION, STORING EQUIPMENT OR SUPPLIES WITHIN THE CRITICAL ROOT ZONE (CRZ), OR DISPOSING OF PAINT OR CONCRETE WITHIN THE CRZ BUT NOT CLOSER TO THE TRUNK THAN 50% RADIUS OF THE CRZ. SLIGHT DAMAGE TO TREES SHALL BE ASSESSED AT A RATE OF \$100.00 FOR EACH INSTANCE. EACH DAY TREE FENCING IS NOT PROPERLY PLACED, EQUIPMENT OR SUPPLIES ARE STORED WITHIN CRZ OR FILL IS STORED WITHIN THE CRZ SHALL BE CONSIDERED ONE INSTANCE.
  - 1.7. MODERATE DAMAGE SHALL BE DEFINED AS DAMAGE IN THE OPINION OF THE CITY FORESTER, THAT CONTRIBUTES TO THE POOR HEALTH AND REDUCED LONGEVITY OF THE TREE. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO SCARING OF THE TRUNK INTO THE CAMBIAL LAYER GREATER THAN 2" BUT LESS THAN 1/3 THE TRUNK CIRCUMFERENCE OR BREAKING OF LIMBS MORE THAN 2" IN DIAMETER BUT LESS THAN 1/3 TRUNK CALIPER, WHICHEVER IS LESS. MODERATE DAMAGE SHALL ALSO INCLUDE COMPACTION OF SOIL, GRADING OR FILLING IN 20% OF THE CRZ ON ONE OF FOUR SIDES BUT OUTSIDE THE 50% RADIUS OF THE CRZ, DISPOSING OF PAINT OR CONCRETE WITHIN 50% RADIUS OF THE CRZ. MODERATE DAMAGES SHALL BE CALCULATED AT A RATE OF 1/2 THE ASSESSED VALUE OF THE TREE PER EACH INSTANCE OF DAMAGE.
  - 1.8. SEVERE DAMAGE OR REMOVAL OF TREES IS SUBJECT TO PENALTY OF \$200.00 PER DIAMETER INCH OF TREES REMOVED OR DAMAGED FOR TREES LESS THAN 30" DBH, \$400.00 PER DIAMETER INCH OF TREES 30" DBH OR GREATER. SEVERE DAMAGE OR REMOVAL SHALL INCLUDE BUT IS NOT LIMITED TO SCARING OF THE TRUNK TO THE CAMBIAL LAYER GREATER THAN 1/3 THE TRUNK CIRCUMFERENCE, UPROOTING OR CAUSING A TREE TO LEAN, DAMAGE TO A SCAFFOLDING BRANCH OR BRANCH GREATER THAN 1/3 OF TRUNK CALIPER. SEVERE DAMAGE SHALL ALSO INCLUDE COMPACTION OF SOIL, GRADING, OR FILLING MORE THAN 20% OF THE CRZ, OR WITHIN 50% RADIUS OF THE CRZ OR ON MORE THAN ONE OF FOUR SIDES. CUTTING 1/3 OF THE BUTTRESS ROOTS WITHIN 3 TIMES THE DISTANCE OF THE DBH OF THE TRUNK, OR CUTTING ROOTS 4" OR GREATER IN DIAMETER WITHIN 4' OF THE TRUNK SHALL ALSO BE CONSIDERED SEVERE DAMAGE.
  - 1.9. BRANCHES SHALL BE MEASURED AT THE POINT OF ATTACHMENT OR AT THE LATERAL TO WHICH THE BRANCH WOULD BE PRUNED BACK TO ACCORDING TO ANSI STANDARDS. TREE CALIPERS SHALL BE MEASURED ACCORDING TO ACCEPTED INDUSTRY STANDARDS. TREES GREATER THAN 6" IN CALIPER SHALL BE MEASURED USING DIAMETER AT BREST HEIGHT (DBH). TREES THAT MUST BE REMOVED DUE TO DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REMOVED BY THE FORESTRY SECTION TREE REMOVAL AT THE CONTRACTOR'S EXPENSE.
  - 1.10. ALL DAMAGES SHALL BE PAID TO THE CITY TREE FUND. FAILURE TO REPLACE OR PAY FOR DAMAGED TREES SHALL RESULT IN A BREACH OF CONTRACT AND THE CONTRACTOR WILL BE AUTOMATICALLY ASSESSED DAMAGES AS HEREIN SHALL BE DEDUCTED FROM PAYMENTS OTHERWISE DUE TO THE CONTRACTOR.

**PROJECT SPECIFIC NOTES:**

1. CONTRACTOR SHALL MAKE PROVISION TO PROVIDE MINIMALLY INTERRUPTED ACCESS TO ALL PROPERTY AND PRIVATE DRIVEWAYS ADJACENT TO WORK AREA. IN NO CASE SHALL ACCESS BE CUT OFF OVERNIGHT.
2. CONTRACTOR SHALL PROTECT ALL EXISTING TREE'S, RETAINING WALLS, AND STRUCTURES UNLESS OTHERWISE NOTED IN PLANS.
3. CONTRACTOR TO CONTACT TPW FIELD OPERATIONS SUPERVISOR (TARIK McINTYRE: 817-392-8101) FOR DROP-OFF INFORMATION.
4. PRIOR TO ANY TREE PRUNING OR TRIMMING, CONTACT CITY FORESTER IN PARK & RECREATION DEPARTMENT (RUSTIN STEPHENS: 817-392-5705). TREE TRIMMING WORK MUST BE DONE UNDER AN ISA CERTIFIED ARBORIST.
5. CONTRACTOR SHALL INSTALL BLOCK SOD WITHIN LIMITS OF DISTURBED AREA.
6. CONTRACTOR SHALL PROVIDE A MINIMUM OF 4' CLEAR PATH (CFW PROWAG ADOPTED) WHERE POWER POLES, GUY WIRES, OR ANY OBSTRUCTION EXISTS. CONTRACTOR TO CONTACT CONSULTING ENGINEER (JOSH WRIGHT: 817-632-4832) IF DISCREPANCY IN PLANS AND FIELD CONDITIONS PROHIBITS ADHERENCE TO ADA CRITERIA.
7. CONTRACTOR TO REPORT TO OWNER AND HAVE REPAIRED ANY DAMAGE TO FRANCHISE UTILITY STRUCTURES WHICH INCLUDE: POWER POLES, GUY WIRES, VALVES, AND FENCES. ANY AND ALL DAMAGES ARE TO BE PAID AT CONTRACTOR'S EXPENSE.
8. ALL VALVES AND UTILITY BOXES WITHIN DISTURBED AREA ARE TO BE ADJUSTED TO FINISHED GRADE.



*Joshua Wright*  
 PROJECT ENGINEER  
 DATE 6/11/2021

DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
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 817-335-1121  
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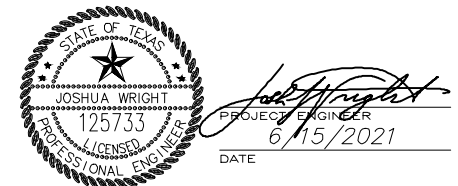
**PROJECT SPECIFIC NOTES**

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	4



SUMMARY OF REMOVAL ITEMS - BONNIE BRAE ELEMENTARY SCHOOL													
SHEET NO.	STREET NAME	104	104	104	104	105	496	506	752	752	752	752	1004
		6015	6036	6017	6029	6005	6030	6043	6005	6006	6007	6009	6001
		REMOVING CONC (SIDEWALKS)	REMOVING CONC (SIDEWALK OR RAMP)	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (CURB OR CURB & GUTTER)	REMOVING STAB BASE AND ASPH PAV (3")	REMOVE STR (BOLLARD)	BIODEG EROSN CONT LOGS (REMOVE)	TREE REMOVAL (4" -12" DIA)	TREE REMOVAL (12" -18" DIA)	TREE REMOVAL (18"-24" DIA)	TREE REMOVAL (30"-36" DIA)	TREE PROTECTION
		SY	SY	SY	LF	SY	EA	LF	EA	EA	EA	EA	EA
38-39	BONNIE BRAE AVE.	43	11	76	44	3		30	2				
40-41	FAIRVIEW ST.		25	75	30	1.5							
42-43	MESQUITE RD.	13		32	46							1	
44-46	ELINOR ST.		9	86	30		1	10	9	1			9
47	NE 28TH ST.	4						10					
48-50	PREMIER ST.			35	103				2		1		2
	<b>TOTAL</b>	<b>60</b>	<b>45</b>	<b>304</b>	<b>253</b>	<b>4.5</b>	<b>1</b>	<b>50</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>11</b>

SUMMARY OF UTILITY ITEMS - BONNIE BRAE ELEMENTARY SCHOOL						
SHEET NO.	STREET NAME	479	479	479	506	644
		6004	6005	6008	6040	6068
		ADJUSTING MANHOLES (SANITARY)	ADJUSTING MANHOLES (WATER VALVE)	ADJUSTING MANHOLES (WATER METER)	BIODEG EROSN CONT LOGS (IN STL) (8")	RELOCATE SM RD SN SUP&AM TY 10BWG
		EA	EA	EA	LF	EA
38-39	BONNIE BRAE AVE.	2		10	30	
40-41	FAIRVIEW ST.		1			
42-43	MESQUITE RD.			6		1
44-46	ELINOR ST.	1	1	15	10	1
47	NE 28TH ST.				10	
48-50	PREMIER ST.			1		4
	<b>TOTAL</b>	<b>3</b>	<b>2</b>	<b>32</b>	<b>50</b>	<b>6</b>



DATE	BY	REV	REVISION

**DUNAWAY** 550 Bailey Avenue  
Suite 400  
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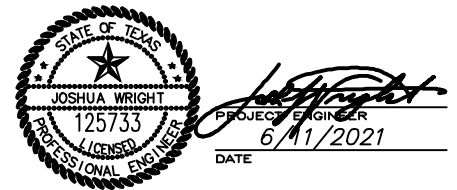
**SUMMARY OF REMOVAL  
QUANTITIES**

**BONNIE BRAE ELEMENTARY SCHOOL**

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.		
6	TEXAS	STP2021(929)TP	VA		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	5

SUMMARY OF REMOVAL ITEMS - W.J. TURNER ELEMENTARY SCHOOL															
SHEET NO.	STREET NAME	104	104	104	104	104	105	104	496	506	550	550	752	752	1004
		6001	6015	6017	6024	6029	6005	6044	6030	6043	6003	6015	6005	6009	6001
		REMOVING CONC (PAV)	REMOVING CONC (SIDEWALKS)	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (RETAINING WALLS)	REMOVING CONC (CURB OR CURB & GUTTER)	REMOVING STAB BASE AND ASPH PAV (3")	REMOVING CONC (FLUME)	REMOVE STR (BOLLARD)	BIODEG EROSN CONT LOGS (REMOVE)	CHAIN LINK FENCE (REMOVE)	REMOVE AND INSTALL EXISTING GATE	TREE REMOVAL (4" -12" DIA)	TREE REMOVAL (30"-36" DIA)	TREE PROTECTION
		SY	SY	SY	SY	LF	SY	SY	EA	LF	LF	EA	EA	EA	EA
52-55	NW 25TH ST		131	467	1	207	34			30				1	10
568-58	NW 26TH ST	8	97	278		165	251			40			4		9
59-62	AZLE AVE	7	577	266	8	450	351		2	70					3
63-65	NW 27TH ST	1	208	280	9.2	159	250	1		30			3	1	7
66-69	ROCK ISLAND ST	27	40	128		206	208			50			8		14
70-72	ROBINSON ST		84	20	2	99	397			20			0		6
73-75	MACIE AVE		89	25		76	113			10					6
76-79	LYDON AVE		4	173		118	88			40	20	3	4		3
80-82	KEARNEY AVE	4	95	102		44	73			20			1		6
	<b>TOTAL</b>	<b>47</b>	<b>1,325</b>	<b>1,739</b>	<b>20</b>	<b>1,524</b>	<b>1,765</b>	<b>1</b>	<b>2</b>	<b>310</b>	<b>20</b>	<b>3</b>	<b>20</b>	<b>2</b>	<b>64</b>

SUMMARY OF UTILITY ITEMS - DIAMOND HILL ELEMENTARY				
SHEET NO.	STREET LOCATION	479	506	644
		6008	6040	6068
		ADJUSTING MANHOLES (WATER METER)	BIODEG EROSN CONT LOGS (1INSTL) (8")	RELOCATE SM RD SN SUP&AM TY 10BWG
		EA	LF	EA
84-86	SCHWARTZ AVE	19	20	6
87	GLENDALE AVE	5		1
88-90	HUTCHINSON ST	9		3
91-92	HALE AVE	3		1
93-95	RUNNEL AVE	12		4
96-101	DEEN RD	3	20	10
102-104	NE 28TH ST	1	20	3
105	NE LORAINE ST			1
106-109	NE 29TH ST			
110-111	DEWEY ST			4
112	NE 30TH ST			
	<b>TOTAL</b>	<b>52</b>	<b>60</b>	<b>33</b>



DATE	BY	REV	REVISION

550 Bailey Avenue  
 Suite 400  
 Fort Worth, TX 76107  
 817-335-1121  
 (TX REG #1114)

PROJ NO. 101264 FILE NO. K-2630

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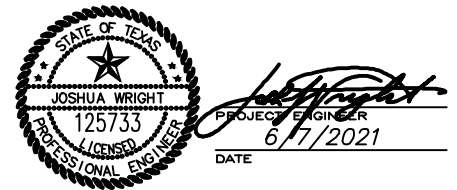
2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

**SUMMARY OF REMOVAL QUANTITIES**  
**W.J. TURNER ELEMENTARY SCHOOL**

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
6	TEXAS	STP 2021(929)TP	VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
FTW	TARRANT	0902	90
			JOB NO.
			082
			SHEET NO.
			6

SUMMARY OF REMOVAL ITEMS - DIAMOND HILL ELEMENTARY SCHOOL													
SHEET NO.	STREET LOCATION	104	104	104	104	104	105	496	506	752	752	752	1004
		6001	6015	6017	6024	6029	6005	6030	6043	6005	6006	6010	6001
		REMOVING CONC (PAV)	REMOVING CONC (SIDEWALKS)	REMOVING CONC (DRIVEWAYS)	REMOVING CONC (RETAINING WALLS)	REMOVING CONC (CURB OR CURB & GUTTER)	REMOVING STAB BASE AND ASPH PAV (3")	REMOVE STR (BOLLARD)	BIODEG EROSN CONT LOGS (REMOVE)	TREE REMOVAL (4" -12" DIA)	TREE REMOVAL (12" -18" DIA)	TREE REMOVAL (36"-42" DIA)	TREE PROTECTION
		SY	SY	SY	LF	LF	SY	EA	LF	EA	EA	EA	EA
84-86	SCHWARTZ AVE		206	233		466	5		20	1	1		5
87	GLENDALE AVE		2				77	3					
88-90	HUTCHINSON ST	10	233	147	17	147	23						11
91-92	HALE AVE		291	7		136							3
93-95	RUNNEL AVE		362	329	78	275	11			2			8
96-101	DEEN RD.	15	228.00	537		332	177		20	2		1	1
102-104	NE 28TH ST		171	524		110	697	4	20				
105	NE LORAIN ST		212			68							
106-109	NE 29TH ST		49	165		164	6				2		10
110-111	DEWEY ST		142	72		111							
112	NE 30TH ST		50	28		17				1			1
	<b>TOTAL</b>	<b>25.0</b>	<b>1,946</b>	<b>2,042</b>	<b>95</b>	<b>1,826</b>	<b>996.0</b>	<b>7</b>	<b>60</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>39</b>

SUMMARY OF UTILITY ITEMS - DIAMOND HILL ELEMENTARY				
SHEET NO.	STREET LOCATION	479	506	644
		6008	6040	6068
		ADJUSTING MANHOLES (WATER METER)	BIODEG EROSN CONT LOGS (INSTL) (8")	RELOCATE SM RD SN SUP&AMTY 10BWG
		EA	LF	EA
84-86	SCHWARTZ AVE	19	20	6
87	GLENDALE AVE	5		1
88-90	HUTCHINSON ST	9		3
91-92	HALE AVE	3		1
93-95	RUNNEL AVE	12		4
96-101	DEEN RD	3	20	10
102-104	NE 28TH ST	1	20	3
105	NE LORAIN ST			1
106-109	NE 29TH ST			
110-111	DEWEY ST			4
112	NE 30TH ST			
	<b>TOTAL</b>	<b>52</b>	<b>60</b>	<b>33</b>



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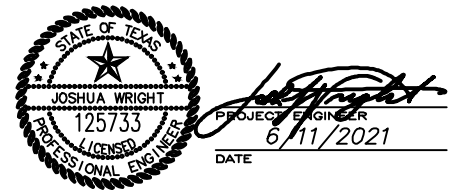
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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

**SUMMARY OF REMOVAL QUANTITIES**  
**DIAMOND HILL ELEMENTARY SCHOOL**

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.		
6	TEXAS	STP 2021(929)TP	VA		
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	7

SUMMARY OF ROADWAY ITEMS - BONNIE BRAE ELEMENTARY									
SHEET NO.	STREET NAME	450	529	529	530	531	531	531	531
		6048	6008	6002	6004	6001	6005	6013	6034
		RAIL (HANDRAIL)(TY B)	CONC CURB AND GUTTER (TY II)	CONC CURB (TY II)	DRIVEWAYS (CONC)	CONC SIDEWALKS (4")	CURB RAMPS (TY 2)	CURB RAMPS (TY 7)	CURB RAMPS (TY 10)
						OFFSET	ADJACENT		
		LF	LF	LF	SY	SY	EA	EA	EA
114-117	BONNIE BRAE AVE.			40	66	552	19		3
118-121	FAIRVIEW ST.	32			67	251	115		3
122-124	MESQUITE RD.			70	26	211	149	1	2
125-129	ELINOR ST.		47		205	648	115		2
130-131	28TH ST.					305			
132-136	PREMIER ST.		19		80	691	119		7
	<b>TOTAL</b>	<b>32</b>	<b>66</b>	<b>110</b>	<b>444</b>	<b>2,658</b>	<b>517</b>	<b>1</b>	<b>17</b>



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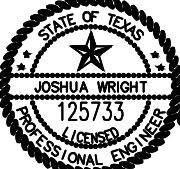
2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

**SUMMARY OF ROADWAY QUANTITIES**  
**BONNIE BRAE ELEMENTARY SCHOOL**

FED. RD. DIV. NO.	STATE	PROJECT NO.	HIGHWAY NO.
6	TEXAS	STP2021(929)TP	VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.
FTW	TARRANT	0902	082
			JOB NO.
			082
			SHEET NO.
			8

**SUMMARY OF ROADWAY ITEMS - W.J. TURNER ELEMENTARY**

SHEET NO.	STREET NAME	162	168	247	340	340	464	465	474	529	529	529	530	531	531	531	531	531	550	
		6002	6001	6061	6011	6106	6004	6416	6021	6002	6007	6008	6004	6001	6005	6010	6013	6057	6001	
		BLOCK SODDING	VEGETATIVE WATERING	FL BS (CMP IN PLC)(TYA GR1-2) (6")	D-GR HMA(SQ) TY-B PG64-22	D-GR HMA(SQ) TY-D PG64-22 (HMAC TRANS)	RC PIPE (CL III) (21 IN)	INLET (COMPL) (CO) (10 FT)(FTW)	CAST-IN-PLACE TRENCH DRAIN	CONC CURB (TY II)	CONC CURB AND GUTTER (TY I)	CONC CURB AND GUTTER (TY II)	DRIVEWAYS (CONC)	CONC SIDEWALKS (4")		CURB RAMPS (TY 2)	CURB RAMPS (TY 7)	CURB RAMPS (TY 10)	CONC SIDEWALK (SPECIAL) (RETAINING WALL)	CHAIN LINK FENCE (INSTALL) (6')
		SY	MG	SY	TON	TN	LF	EA	LF	LF	SY	SY	ADJACENT	EA	EA	EA	SF	LF		
138-144	NW 25TH ST									13		18	663	700	65	0	8	2	1395	
145-150	NW 26TH ST									90		293	484	587	240		13		117	
151-157	AZLE AVE	230	8.05				135	3	42			328	609	675	0		11		90	
158-163	NW 27TH ST									520		520	446	463	358		10		486	
164-170	ROCK ISLAND ST			131	30.13	15.07				192		557	488	694	129	2	12		1323	
171-177	ROBINSON ST			187	43.01	21.51				26	127	568	366	523	281		8	6	117	
178-184	MACIE AVE											279	307	946	0		17	1	198	
185-191	LYDON AVE									177		20	437	863	139		13	2	279	20
192-197	KEARNEY AVE									125		15	484	401	173		15	1	1053	
	<b>TOTAL</b>	<b>230</b>	<b>8</b>	<b>318</b>	<b>74</b>	<b>37</b>	<b>135</b>	<b>3</b>	<b>42</b>	<b>1,143</b>	<b>127</b>	<b>2,598</b>	<b>4,284</b>	<b>5,852</b>	<b>1,385</b>	<b>2</b>	<b>107</b>	<b>12</b>	<b>5,058</b>	<b>20</b>



  
 JOSHUA WRIGHT  
 125733  
 LICENSED PROFESSIONAL ENGINEER  
 PROJECT ENGINEER  
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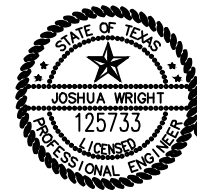
2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

**SUMMARY OF ROADWAY QUANTITIES**  
  
**W.J. TURNER ELEMENTARY SCHOOL**


FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
6	TEXAS	STP 2021(929)TP		VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
FTW	TARRANT	0902	90	082
				SHEET NO.
				9


**SUMMARY OF ROADWAY ITEMS - DIAMOND HILL ELEMENTARY**

SHEET NO.	STREET NAME	162	168	474	S29	S29	S30	S31		S31	S31	S31	S31
		6002	6001	6021	6008	6002	6004	6001		6057	6005	6010	6013
		BLOCK SODDING	VEGETATIVE WATERING	CAST-IN-PLACE TRENCH DRAIN	CONC CURB AND GUTTER (TY II)	CONC CURB (TY II)	DRIVEWAYS (CONC)	CONC SIDEWALKS (4")		CONC SIDEWALK (SPECIAL) (RETAINING WALL)	CURB RAMPS (TY 2)	CURB RAMPS (TY 7)	CURB RAMP (TY-10)
							OFFSET	ADJACENT					
		SY	MG	LF	LF	LF	SY	SY		SF	EA	EA	
199-204	SCHWARTZ AVE	282	10	71	361		288	1137	176	666		26	
205-206	GLENDALE AVE				25		169	155	30			2	
207-212	HUTCHINSON ST				22	178	151	633	24	882		24	
213-215	HALE AVE							199				16	
216-220	RUNNEL AVE				63	35	302	889	241	387		20	1
221-230	DEEN RD.				287	309	743	1381	282	1818	1	41	1
231-235	NE 28TH ST				53		858	7	715			1	2
236	NE LORAIN ST				24			28		0		18	
237-241	NE 29TH ST				8		297	512	68	0		13	3
242-245	DEWEY STREET				22		120	264	66	0		11	
246-247	NE 30TH ST						68	110		0		1	
	<b>TOTAL</b>	<b>282</b>	<b>10</b>	<b>71</b>	<b>865</b>	<b>522</b>	<b>2,996</b>	<b>5,315</b>	<b>1,602</b>	<b>3,753</b>	<b>1</b>	<b>173</b>	<b>7</b>



  
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**2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS**

**SUMMARY OF ROADWAY QUANTITIES**

**DIAMOND HILL ELEMENTARY SCHOOL**

FED. RD. DIV. NO.	STATE	PROJECT NO.		HIGHWAY NO.
6	TEXAS	STP 2021(929)TP		VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.
FTW	TARRANT	0902	90	082
				<b>10</b>

**SUMMARY OF TRAFFIC ITEMS - BONNIE BRAE ELEMENTARY**

SHEET NO.	LOCATION	STATION	644	666	666	672	678	678	678
			6009	6047	6207	6009	6001	6008	6033
			IN SM RD SN SUP&AM TY10BWG(1)SB(P)	REFL PAV MRK TY I (W) 24"(SLD)(090MIL)	REFL PAV MRK TY II (Y) 4" (SLD)	REFL PAV MRKR TY II-A A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (RPM)
276	BONNIE BRAE AVE.	FAIRVIEW ST & NE 29TH ST	EA	LF	LF	EA	LF	LF	EA
	<b>TOTAL</b>		<b>3</b>	<b>120</b>	<b>300</b>	<b>12</b>	<b>300</b>	<b>120</b>	<b>12</b>

**SUMMARY OF TRAFFIC ITEMS - W.J. TURNER ELEMENTARY**

SHEET NO.	LOCATION	STATION	636	644	666	666	666	666	672	678	678	678	678
			6003	6009	6035	6047	6170	6207	6009	6001	6004	6008	6033
			ALUMINUM SIGNS (TY O)	IN SM RD SN SUP&AM TY10BWG(1)SB(P)	REFL PAV MRK TY I (W) 8"(SLD)(090MIL)	REFL PAV MRK TY I (W) 24"(SLD)(090MIL)	REFL PAV MRK TY II (W) 4" (SLD)	REFL PAV MRK TY II (Y) 4" (SLD)	REFL PAV MRKR TY II-A A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (8")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (RPM)
284	NW 26TH ST	@ ROBINSON & MACIE	SF	EA	LF	LF	LF	LF	EA	LF	LF	LF	EA
285	MACIE AVE	@ AZLE AVE					230	130	400	16	400	0	130
286	ROBINSON ST	@ AZLE AVE	22.5	10	104	189	152	400	16	400	104	152	16
	<b>TOTAL</b>	<b>TOTAL</b>	<b>22.5</b>	<b>14</b>	<b>104</b>	<b>789</b>	<b>282</b>	<b>1,600</b>	<b>64</b>	<b>1,600</b>	<b>104</b>	<b>282</b>	<b>64</b>

**SUMMARY OF SIGNAL ITEMS - W.J. TURNER ELEMENTARY**

SHEET NO.	LOCATION	STATION	416	618	618	618	620	620	624	680	682	682	682	682
			6031	6023	6029	6030	6007	6010	6010	6002	6003	6005	6018	6035
			DRILL SHAFT (TRF SIG POLE) (30 IN)	CONDT (PVC) (SCH 40) (2")	CONDT (PVC) (SCH 40) (3")	CONDT (PVC) (SCH 40) (3") (BORE)	ELEC CONDR (NO.8) BARE	ELEC CONDR (NO.6) INSULATED	GROUND BOX TY D (162922) W/ APRON	INSTALL HWY TRF SIG (ISOLATED)	VEH SIG SEC (12") LED (YEL)	VEH SIG SEC (12") LED (RED)	PED SIG SEC (LED) (COUNTDOWN)	BACK PLATE (12") (3 SEC) (VENTED) ALUM
273	AZLE AVE	@ ROBINSON & MACIE	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	
	<b>TOTAL</b>	<b>TOTAL</b>	<b>11</b>	<b>25</b>	<b>15</b>	<b>35</b>	<b>75</b>	<b>40</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>8</b>	<b>2</b>	<b>4</b>

SHEET NO.	LOCATION	STATION	684	684	684	684	684	686	687	688	688	6000
			6029	6030	6031	6033	6036	6031	6001	6001	6003	6010
			TRF SIG CBL (TY A) (14AWG) (3 CONDR)	TRF SIG CBL (TY A) (14 AWG) (4 CONDR)	TRF SIG CBL (TY A) (14AWG) (5 CONDR)	TRF SIG CBL (TY A) (14AWG) (7 CONDR)	TRF SIG CBL (TY A) (14AWG) (10 CONDR)	INS TRF SIG PL AM (S) 1 ARM (28') LUM	PED POLE ASSEMBLY	PED DETECT PUSH BUTTON (APS)	PED DETECTOR CONTROLLER UNIT	INSTALL TRAY CABLE
273	AZLE AVE	@ ROBINSON & MACIE	LF	LF	LF	LF	LF	EA	EA	EA	EA	LF
	<b>TOTAL</b>	<b>TOTAL</b>	<b>55</b>	<b>60</b>	<b>30</b>	<b>200</b>	<b>50</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>60</b>



PROJECT ENGINEER  
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 DATE 7/9/2021

**SUMMARY OF TRAFFIC ITEMS - DIAMOND HILL ELEMENTARY**

SHEET NO.	LOCATION	STATION	644	666	666	666	666	666	672	678	678	678	678	6227	
			6009	6035	6047	6098	6170	6207	6009	6001	6004	6008	6022	6033	6001
			IN SM RD SN SUP&AM TY10BWG(1)SB(P)	REFL PAV MRK TY I (W) 8"(SLD)(090MIL)	REFL PAV MRK TY I (W) 24"(SLD)(090MIL)	REFL PAV MRK TY I (W) 18" (YLD TRI)(090MIL)	REFL PAV MRK TY II (W) 4" (SLD)	REFL PAV MRK TY II (Y) 4" (SLD)	REFL PAV MRKR TY II-A A	PAV SURF PREP FOR MRK (4")	PAV SURF PREP FOR MRK (8")	PAV SURF PREP FOR MRK (24")	PAV SURF PREP FOR MRK (18") (YLD TRI)	PAV SURF PREP FOR MRK (RPM)	SOLAR POWERED LED WARNING SIGN
278	NE LORAIN ST	908+50 TO 915+50	EA	LF	EA	LF	LF	EA	LF	0	LF	EA	EA		
279		915+50 TO 917+00	9	36	341	16	50	800	32	850	36	341	16	32	2
280	NE 29TH ST	1009+50 TO 1014+00	9		265				500	20	500	0	265	20	
281	DEWEY ST	1090+50 TO 1107+25	12	68	329	15	15	900	36	915	68	329	15	36	2
282		1107+25 TO END	11		345			800	32	800	0	345	18	32	2
283	NE 30TH ST	@ HUTCHINSON ST			114			100	8	100	0	114	0	8	
	<b>TOTAL</b>		<b>44</b>	<b>104</b>	<b>1,602</b>	<b>49</b>	<b>65</b>	<b>3,500</b>	<b>144</b>	<b>3,565</b>	<b>104</b>	<b>1,602</b>	<b>49</b>	<b>144</b>	<b>6</b>

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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

**SUMMARY OF TRAFFIC & SIGNAL QUANTITIES**

FED. RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	11