



CITY OF SAN ANTONIO

DEVELOPMENT SERVICES DEPARTMENT

1901 S. Alamo, San Antonio, TX 78204

ADMINISTRATIVE EXCEPTION/VARIANCE REQUEST APPLICATION

Project Name:	Fort Sam ISD New Roadway, Winans Road to Rittiman Road
A/P # /PPR # /Plat #	City of San Antonio Project Number 23-01581
Date:	May 5, 2020
Code Issue:	Unsafe Roadway Crossing from Flooding
Code Sections:	35-F124(f)(1) and 35-125(a)(3)

Submitted By:	<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Owners Agent * (Requires notarized Letter of Agent)
Owners Name:	Sean D. Strong, PE, Senior Engineer/Project Manager	
Company:	City of San Antonio, Public Works Department	
Address:	114 W. Commerce Street, San Antonio, Texas	Zip Code: 78205
Tel #:	210-207-8037	Fax# 210-207-7196 E-Mail: sean.strong@sanantonio.gov
Consultant:	Raul H. Garcia, Jr., PE	
Company:	Garcia & Wright Consulting Engineers, Inc.	
Address:	407 W. Rhapsody, San Antonio, Texas	Zip Code: 78216
Tel #:	210-349-5253	Fax# E-Mail: rgarciajr@garciawright.com
Signature:	<i>Sean D. Strong, PE</i>	

Additional Information – Subdivision Plat Variances & Time Extensions

- ☐ Time Extension ☐ Sidewalk ☒ Floodplain Permit ☐ Completeness Appeal
☐ Other _____
- City Council District 2 Ferguson Map Grid _____ Zoning District N/A
- San Antonio City Limits ☒ Yes ☐ No
- Edwards Aquifer Recharge Zone? ☐ Yes ☒ No
- Previous/existing landfill? ☐ Yes ☒ No
- Parkland Greenbelts or open space? Floodplain? ☒ Yes ☐ No



May 5, 2020

Administrative Exception / Variance Request Review
c/o Development Services Staff
Development Services Department
City of San Antonio
1901 S. Alamo
San Antonio, TX 78204

Re: Fort Sam ISD New Roadway (Winans Road to Rittiman Road)
Project Number 23-01581
UDC Codes 35-F124(f)(1) and F125(a)(3)

- ☒ Administrative Exception
- ☐ Environmental Variance
- ☐ Subdivision Platting Variance – Time Extension

Dear Development Services Staff,

The Fort Sam Houston ISD Roadway Project proposes an access road in John James Park that begins at Rittiman Road on the north end and connects to Winans Road to the south, following the west boundary of the park. This roadway will provide a secondary access road to Robert G. Cole Middle School. In addition, there is a proposed roadway that parallels Winans Road immediately north of its ROW and extends due east for approximately 1,000 feet to provide access to a Veterans Administration facility. These roadways are adjacent to and west of Salado Creek and have portions of their alignment inundated by the Effective FEMA 100-year Special Flood Hazard Area (Zone AE) of Salado Creek. The inundations are primarily from the backwater of Salado Creek and are not in the main conveyance of flows. The design variance being requested is in regards to the Unified Development Code Sections 35-F124(f)(1) and F125(a)(3) that both refer to allowable and prohibitive development respectively of roadways in floodplain that do not meet a safe water crossing per Section 4.3.1C(4) in Appendix H. There are three general areas of the proposed roadway identified through flood analysis as being inundated by the 100-year floodplain to a point they do not meet the criteria set forth in Section 4.3.1C(4) in Appendix H.

The current effective floodplain models for Salado Creek were reviewed. It was determined that the Rittiman Road capital improvement bridge project did not submit a FEMA LOMR following the completion of the construction in 2014. Since the new bridge is immediately upstream of the Fort Sam ISD Roadway project, a flood study was conducted for this project to investigate if the Rittiman Road bridge project provided any benefit to the proposed roadway project by reducing the floodplain risks. The flood study titled, "Floodplain Mapping of Salado Creek for the Fort Sam Houston ISD Road", dated April 6, 2020, is provided in Attachment 1. The study analyzed and remapped the section of Salado Creek along the proposed Fort Sam ISD New roadways and identified three locations the roadways are inundated by the 100-year floodplain.

**Page 2**

Garcia & Wright Consulting Engineers, Inc. is hereby requesting a design variance from the City of San Antonio to allow the construction of these roadways with the 100-year floodplain of Salado Creek.

The hydraulic analysis provided in the above referenced flood study determined the roadways will be operational for the smaller storm events, such as 1, 2, and 5-year storms. These smaller storm events are considered frequent storm events, which make up the majority of storms statistically experienced in a year. In addition, the storm events are considered safe crossings for higher storms with inundations that meet Section 4.3.1C(4) in Appendix H of the Unified Development Code. Table 3 in the flood study provided in Attachment 1 reports the modeled flood depths for the larger storm events for all three locations. To provide safety of the traveling public during infrequent rainfall events, the proposed roadways are to have HALT Systems installed with sensors to detect and warn traffic of highwater at the three locations identified in the flood study. The Floodplain Exhibit in the flood study provided in Attachment 1 indicates the preliminary locations for five HALT signs with flashing beacons. These systems would be part of the overall countywide system currently in place. With the analysis performed and HALT systems proposed, the current design has considered all practical measures to minimize any adverse impacts to public health, safety, and public welfare. A detail of a typical HALT Sign with flashing beacon is provided in Attachment 2.

The roadways are currently at natural grade in the areas of inundation by the 100-year storm events. The option of raising the roadways to remove them from the 100-year storm event flood depths or at an acceptable elevation to make them meet the criteria of Section 4.3.1C(4) in Appendix H was considered not feasible. The raised profile would require 3 to 5 feet of fill for significant portions of the roadways in the floodplain, which would cause floodplain displacement and adverse impacts to the water surface elevations of Salado Creek. This would cause impacts beyond the park area and other properties.

The construction of these roadway will not cause traffic or drainage issues for any adjacent properties or structures. The proposed roadways will not service critical facilities and are considered secondary access roads specifically for the school and VA facility. The steps taken to protect the traveling public with HALT Systems is appropriate for a secondary access roadway. Outreach efforts and communications with the school and stakeholders acknowledging the secondary access and the risks associated with the floodplain issues are provided in Attachment 3. The Fort Sam ISD New Roadway is proposed to relieve traffic issues during heavily attended events at the school with direct access from Rittiman Road. This would relieve traffic problems on Winans and McMurray Roads. The proposed roadway for the VA facility, only serves the facility and can be considered a private maintenance access. It is our opinion that this variance request will not be contrary to the spirit and intent of the UDC section noted above due to the following reasons:

- These proposed secondary access roads are specifically for the school and VA facilities and will not be used for local or through traffic.
- There would be no significant impacts to traffic, if roads are temporarily inaccessible when the flashing beacons are activated.
- The roadways are to be constructed at natural grade and will not adversely impact the water surface elevations of Salado Creek.
- The roadways will not adversely impact any adjacent properties or structures.

**Page 3**

The need for the secondary access roads will provide relief to traffic in the area around the school and VA facility. Therefore, the public interest appears to be served with no adverse impacts, if this variance is granted.

In our professional opinion, the proposed Variance Request remains in harmony with the spirit and intent of the UDC as it will not adversely affect the health, safety, or welfare of the public. We appreciate your consideration of this request.

Sincerely,

Raul H. Garcia, Jr., P.E.

Attachment 1 – Flood Study of Salado Creek

Attachment 2 – Detail of HALT Sign with Flashing Beacons

Attachment 3 – Outreach and Communication with Stakeholders

<u>For Office Use Only:</u>		AEVR #:	_____	Date Received:	_____
<u>DSD – Director Official Action:</u>					
<input type="checkbox"/> APPROVED	<input type="checkbox"/> APPROVED W/ COMMENTS	<input type="checkbox"/> DENIED			
Signature: _____			Date: _____		
Printed Name: _____			Title: _____		
Comments: _____					

ATTACHMENT 1
FLOOD STUDY OF SALADO CREEK



April 6, 2020

Mr. Raul H. Garcia, Jr., PE
Garcia & Wright Consulting Engineers, Inc.
407 W. Rhapsody
San Antonio, TX 78216

Subject: Technical Memo – Floodplain Mapping of Salado Creek for the Fort Sam Houston ISD Road

Mr. Garcia:

Maestas & Associates LLC (Maestas) is pleased to provide Garcia & Wright Consulting Engineers, Inc. (GWC) with this technical memorandum which provides the methods, assumption, calculations, and results for the updated floodplain mapping of Salado Creek downstream of Rittiman Road Bridge for approximately 9,000 feet. This floodplain mapping update to Salado Creek is in support of the proposed Fort Sam Houston ISD Roadway Project in John James Park. This roadway begins on the north end at Rittiman Road, follows the west boundary of the park and east boundary of Robert G. Cole Middle School, and terminates at the south end at Winans Road. The proposed roadway is to be constructed at existing grades and will have a low header curb section. In addition, there is separate planned project with a proposed roadway situated immediately north and parallel of Winans Roadway for approximately 1,000 feet due east from the proposed Fort Sam Houston ISD Roadway. This roadway is planned to be constructed similarly, at natural grade with a low header curb section. The current effective floodplain mapping indicates large portions of both proposed roadways are within the 100-year floodplain of Salado Creek. This is mainly from backwater from Salado Creek and a divided flow in the right over bank downstream of Rittiman Road. This flood study and remapping effort will redefine the mapping with updated topographic data, addition of the new Rittiman Road Bridge, and Atlas 14 rainfall data. The impact analyses for the two roadways are based solely on the riverine flooding and backwater of Salado Creek for the 100-year storm events (Existing, Ultimate Development, and Atlas 14). This analysis did not intend to evaluate the localized drainage across the roadways for any storm events.

HYDROLOGY

The hydrology used for this study is the current effective HEC-HMS model, which was obtained from the San Antonio River Authority (SARA) database. The 100 year and Ultimate 100-year discharges were used from this model. In addition, the model included a new 100-year discharge to account for the updated Atlas 14 rainfall data recently adopted by the City of San Antonio as best available data, effective on April 14, 2019. We obtained from SARA their Atlas 14 hydrologic update, including the aerial reduction spreadsheet. The spreadsheet from SARA is provided in the digital data for this report. The discharges used for this study are the following:

River Station	100 Year Current Effective (CFS)	100 Year Ultimate Current Effective (CFS)	100 Year Ultimate Atlas 14 (CFS)
118668	39,452	42,325	48,974

The 100 Year Ultimate Atlas 14 discharge is slightly higher (2,917 CFS) than the discharge calculated in the previous GWC report.

HYDRAULICS

The hydraulic analysis was performed using the post-project models obtained from GWC, which included the addition of the Rittiman Road bridge and revised geometry data using the 2017 LiDAR within the effective FEMA model for Salado Creek. HEC-RAS 5.0.7 was utilized for the hydraulic simulations for this technical memorandum. The GWC HEC-RAS model was a truncated Salado Creek model, from Stations 118283 to 108864 and included the new Rittiman Road Bridge. Our updated model confirmed the bridge was inputted properly and included one additional cross section upstream (118668) to ensure the bridge was modeled properly. A review of the steady flow data did not find any discrepancies with the flow change locations, or the peak runoff values entered. The ultimate 100-year Atlas 14 peak runoff value of 48,974 cfs was added, and the downstream boundary condition was corrected to a slope of 0.0038 to match the slope of the last two cross sections. Maestas then evaluated the location and frequency of the cross sections, and generally agrees that they represent the Salado Creek within the project limits. The cross sections were evaluated and updated with the 2017 LiDAR data processed by Maestas which were found to have minor discrepancies.

The Manning's roughness coefficients within the hydraulic model provided by GWC was then compared to recent aerial imagery and field conditions for correctness. The GWC hydraulic model contained cross sections which had up to eleven roughness regions. Although this approach is not incorrect, there were roughness values that did not match the City of San Antonio Storm Water Design Criteria Manual (SWDCM). Therefore, the roughness coefficients for all the cross sections within the hydraulic model were revised to match the most recent aerial imagery following the SWDCM. These changes are shown in **Table 1**.

Following the hydraulic model provided by GWC and the DFIRM study, the simulation was executed using the steady state routine. A review of the resulting water surface elevations indicated that there was likely a spill occurring just downstream of the Rittiman Road bridge. To properly model the spill the two downstream cross sections (river stations 118062 and 117861) from the Rittiman Road bridge were truncated at the location of the spill within the right overbanks. Lateral Structure 117900 was added to the hydraulic model to measure the amount of runoff spilling from the right overbank area. The 2017 LiDAR data was used to generate the geometry for the lateral structure. Cross section 117449 and 116977, located just downstream of the lateral structure, were also truncated at the right overbank since they can contain all the design storms runoff from Salado Creek. Following the truncated cross sections, station 116498 represents the area where the spill and an additional waterway begins to flow towards Salado Creek. For this reason, cross section 116498 was not truncated and is like the original hydraulic model.

To generate the water surface elevations, a spill reach (Salado Creek – Spill) was created downstream of the lateral structure and parallel to Salado Creek. The spill reach was then connected to Salado Creek using a Junction within HEC-RAS located between cross section 116977 and 116498. The 2017 LiDAR was used to generate the geometric points for the Spill cross sections and recent aerial imagery was used to define the Manning's roughness values.

The results from the revised hydraulic model indicates that Salado Creek will spill just downstream of the Rittiman Road bridge during a 50-year or higher storm event. The updated model is provided in the digital data for this report. A comparison table between the current effective 100 year, updated 100-Year, updated 100 Year Ultimate, and the new 100 Year Ultimate Atlas 14 profiles are provided in **Table 2**. The resultant mapping of all storms is provided on the attached Floodplain Exhibit. As can be observed on this exhibit, the updated mapping for Salado Creek and the Spill reach produces similar but slightly narrower floodplains than the current effective mapping. Unfortunately, the updated floodplain mapping indicates the proposed roadways have significant

inundation at three locations, as shown on the Floodplain Exhibit. The Floodplain Exhibit provides depths of flow over the roadway at the three analysis points for the 100-year existing, ultimate, and Atlas 14 storm events. In addition, Table 3 provides depths for the ultimate 10, 25, 50, and 100-year Atlas 14 storm events. As summary of the depth analysis is the following:

- Analysis Point 1: This analysis point is at a small culvert crossing of the proposed roadway at station 12+20. The model indicates this crossing to be overtopped by the spill flow from Salado Creek with a max depth up to 3.47 feet. The results indicate this crossing is dry at the 25-year storm event but inundated at the 50-year storm event over 2 feet.
- Analysis Point 2: The low water crossing at roadway station 27+25 is inundated by the backwater of Salado Creek with a depth of 5.70 feet. An elevation of 669.33 was taken from Cross Section 116498 to delineate the backwater floodplain of Salado Creek. The results indicate this crossing is inundated for all storm events but is considered a safe crossing for the 10-year storm event with an inundation depth of 0.31 feet.
- Analysis Point 3: This point is at the east end of the proposed road. A water surface elevation of 666.67 was interpolated between Cross Sections 115502 and 115989. The natural ground elevation of 662.00 was used with the assumption the future roadway will match existing grades. The results indicate the future road will be overtopped as much as 5.09 feet and is inundated by the 25-year storm event. Results further indicate the road will be dry during the 10-year storm event.

As per the City's ordinance, these low water crossings are all considered in the dangerous category, due to the depths required for All Weather Crossings. Due to the significant backwater and spill flow from Salado Creek, it would require raising the roadway profile significantly and providing a large structure to convey flows to provide safe crossings. In addition to backwater, the low water crossing at roadway station 27+25 has off-site flows, including the spill flows, that will need to be conveyed across or within a culvert. If these crossing remain low water crossings, we recommend these locations be equipped with HALT alert systems with signage and flashing beacons to warn drivers of high water. The proposed roadway parallel to Winans Road will need to remain at grade as to not impact water surface elevations of Salado Creek. This roadway is expected to be inundated during large storm events; therefore, it is recommended this proposed roadway include a HALT alert system with signage and flashing beacons, as well. Preliminary HALT Sign locations are shown on the Floodplain Exhibit.

For this analysis, the tables and exhibits are provided as attachments to this memo. If you have any questions or need additional information, please contact me at (210) 381-6085 or by email at dhamilton@maesce.com.

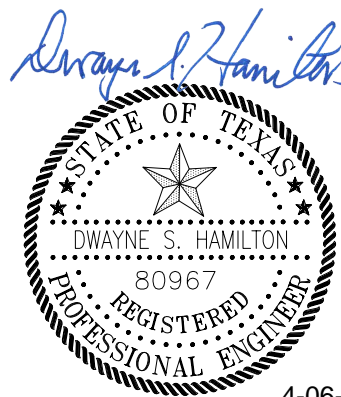
Sincerely,
Maestas & Associates, LLC



Dwayne S. Hamilton, P.E., CFM
Vice President

Attachments:

Table 1 - Current Effective and Proposed "N" Values
Table 2 - Water Surface Elevations Comparisons
Table 3 - Atlas 14 Analysis Point WSEL Comparisons
Exhibit 1 - Floodplain Exhibit
Digital Files



4-06-2020

TABLE 1

MANNING'S N VALUE COMPARISON TABLE													
XS	Effective FEMA								Maestas Revised				
	n #1	n #2	n #3	n #4	n #5	n #6	n #7	n #8	n #1	n #2	n #3	n #4	n #5
118668	0.035	0.065	0.045	0.1	0.05	0.1	0.035	0.045	0.07	0.075	0.065	0.095	
118283	0.035	0.075	0.045	0.1	0.05	0.1	0.045		0.06	0.075	0.08	0.065	0.095
118165*	0.03	0.1	0.05	0.1	0.03				0.065	0.075	0.065	0.095	
118088	0.035	0.045	0.1	0.05	0.1	0.045			0.075	0.08	0.065		
117861	0.035	0.1	0.05	0.1	0.055				0.07	0.095	0.08	0.095	0.055
117449	0.055	0.035	0.1	0.05	0.09	0.055	0.045	0.055	0.085	0.08	0.095		
116977	0.065	0.035	0.1	0.05	0.1	0.055			0.075	0.08	0.095		
2398*									0.05	0.075	0.095		
2112*									0.05	0.075	0.095		
1789*									0.05	0.075	0.095		
1439*									0.05	0.075	0.095		
116498	0.045	0.09	0.035	0.1	0.05	0.1	0.055	0.045	0.095	0.08	0.095		
115989	0.045	0.09	0.05	0.1	0.055	0.045			0.095	0.08	0.095	0.055	
115502	0.055	0.09	0.05	0.1	0.055				0.095	0.08	0.095	0.055	
115023	0.055	0.1	0.05	0.1	0.055				0.095	0.08	0.095	0.055	
114530	0.065	0.03	0.1	0.05	0.1	0.055			0.095	0.08	0.095	0.055	
114057	0.055	0.075	0.1	0.05	0.1	0.055			0.095	0.08	0.095	0.055	
113552	0.065	0.045	0.1	0.05	0.1	0.065	0.055		0.095	0.08	0.095	0.055	
113038	0.065	0.045	0.1	0.05	0.1	0.065			0.095	0.08	0.095	0.055	
112527	0.05	0.045	0.1	0.05	0.1	0.065			0.095	0.08	0.095	0.055	
111915	0.065	0.035	0.045	0.1	0.05	0.1	0.065		0.095	0.08	0.095	0.055	
111346	0.045	0.1	0.05	0.1	0.075	0.065			0.095	0.08	0.095	0.055	
110778	0.045	0.085	0.05	0.1	0.09	0.065			0.095	0.08	0.095	0.055	
110298	0.085	0.05	0.1	0.055	0.1	0.065			0.095	0.08	0.095	0.055	
109805	0.045	0.085	0.05	0.1	0.06	0.09	0.065		0.095	0.08	0.095		
109324	0.045	0.085	0.05	0.1	0.09	0.055	0.075	0.055	0.055	0.08	0.095		
108864	0.045	0.1	0.05	0.1	0.075				0.05	0.08	0.095		

* Spillway Reach

TABLE 2

WSEL COMPARISON TABLE								
XS	Effective FEMA		Maestas Revised			Comparison (Maestas-FEMA)		
	100yr Exist	100yr Ult	100yr Exist	100yr Ult	100yr A14 Ult	EX-EX	ULT-ULT	A14-ULT
	A	B	C	D	E	C-A	D-B	E-B
118668	672.64	673.07	673.88	674.36	675.5	1.24	1.29	2.43
118283	672.26	672.67	673.34	673.8	674.88	1.08	1.13	2.21
118165*	672.16	672.57	673.13	673.57	674.63	0.97	1.00	2.06
118088*	671.96	672.37	672.64	673.06	674.06	0.68	0.69	1.69
117861*	671.05	671.46	671.74	672.1	673.07	0.69	0.64	1.61
117449*	670.5	670.89	670.83	671.14	671.95	0.33	0.25	1.06
116977*	669.73	670.09	669.79	670.03	670.73	0.06	-0.06	0.64
2398**			671.48	671.75	672.75			
2112**			669.55	670.35	672.14			
1789**			668.87	669.29	670.23			
1439**			668.86	669.23	669.86			
116498	668.18	668.52	668.1	668.71	669.33	-0.08	0.19	0.81
115989	666.39	666.74	666.24	666.74	667.9	-0.15	0.00	1.16
115502	664.77	665.12	665.21	665.68	666.81	0.44	0.56	1.69
115023	662.61	663.04	664.45	664.92	665.98	1.84	1.88	2.94

* Effective Cross Section Modified

** Spillway Reach

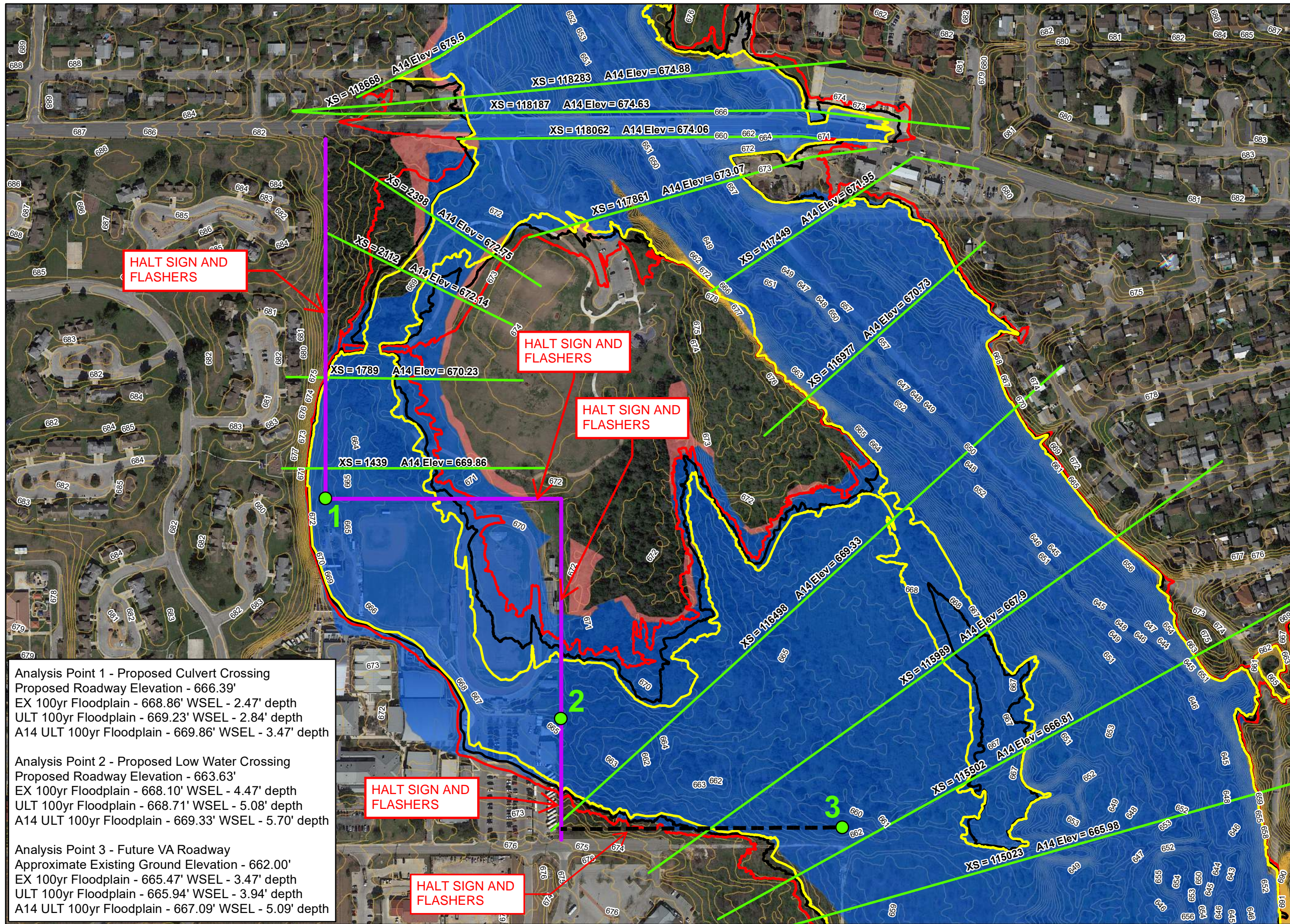
TABLE 3

ATLAS 14 ANALYSIS POINT WSEL COMPARISON										
Analysis Point 1 Prop Elev = 666.39'	Spill Flow WSEL (XS 1439)					Backwater WSEL (XS 116498)				
	10-YR EX	25-YR EX	50-YR EX	100-YR EX	100-YR ULT	10-YR EX	25-YR EX	50-YR EX	100-YR EX	100-YR ULT
WSEL (ft)	X	X	668.62	669.52	669.86	663.94	666.26	667.88	668.97	669.33
Depth (ft) Over RD	X	X	2.23	3.13	3.47	'N/A'	'N/A'	1.49	2.58	2.94

Analysis Point 2 Prop Elev = 663.63'	Backwater WSEL (XS 116498)				
	10-YR EX	25-YR EX	50-YR EX	100-YR EX	100-YR ULT
WSEL (ft)	663.94	666.26	667.88	668.97	669.33
Depth (ft) Over RD	0.31	2.63	4.25	5.34	5.70

Safe and Unsafe Crossings
Per Section 4.3.1C(4) in Appendix H
Unsafe Crossing
Safe Crossing

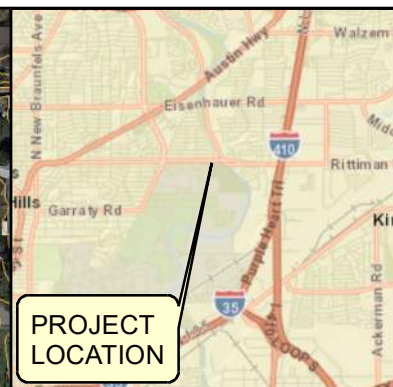
Analysis Point 3 Exist Elev = 662.00'	WSEL (Interpolation - XS 115989, 115502)				
	10-YR EX	25-YR EX	50-YR EX	100-YR EX	100-YR ULT
WSEL (ft)	661.63	663.86	665.27	666.67	667.09
Depth (ft) Over RD	'N/A'	1.86	3.27	4.66	5.09



Analysis Point 1 - Proposed Culvert Crossing
Proposed Roadway Elevation - 666.39'
EX 100yr Floodplain - 668.86' WSEL - 2.47' depth
ULT 100yr Floodplain - 669.23' WSEL - 2.84' depth
A14 ULT 100yr Floodplain - 669.86' WSEL - 3.47' depth

Analysis Point 2 - Proposed Low Water Crossing
Proposed Roadway Elevation - 663.63'
EX 100yr Floodplain - 668.10' WSEL - 4.47' depth
ULT 100yr Floodplain - 668.71' WSEL - 5.08' depth
A14 ULT 100yr Floodplain - 669.33' WSEL - 5.70' depth

Analysis Point 3 - Future VA Roadway
Approximate Existing Ground Elevation - 662.00'
EX 100yr Floodplain - 665.47' WSEL - 3.47' depth
ULT 100yr Floodplain - 665.94' WSEL - 3.94' depth
A14 ULT 100yr Floodplain - 667.09' WSEL - 5.09' depth



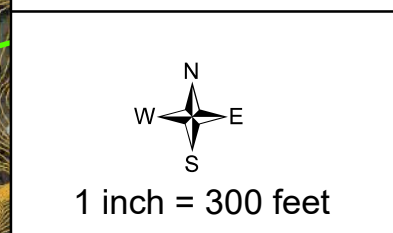
LOCATION MAP
N.T.S.

FT Sam ISD

- LEGEND**
- Project Location
 - XS
 - Future VA Roadway
 - 100yr Existing
 - 100yr Ultimate
 - 100yr A14 Ultimate
- Effective FEMA ZONE**
- 100yr Future
 - A
 - AE
 - 1' Contour



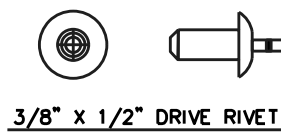
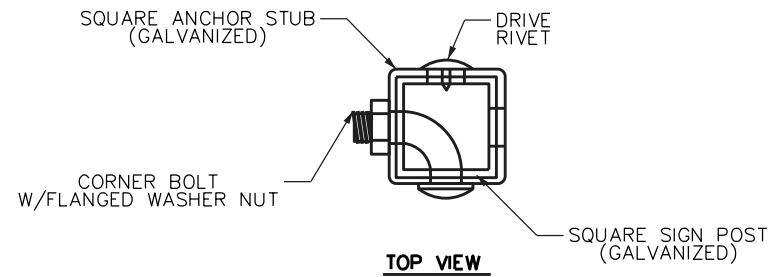
Floodplain Exhibit



MAESTAS

ATTACHMENT 2

DETAIL OF HALT SIGN WITH FLASHING BEACONS



GALVANIZED SQUARE SIGN POST TO BE INSERTED 6" INTO ANCHOR STUB

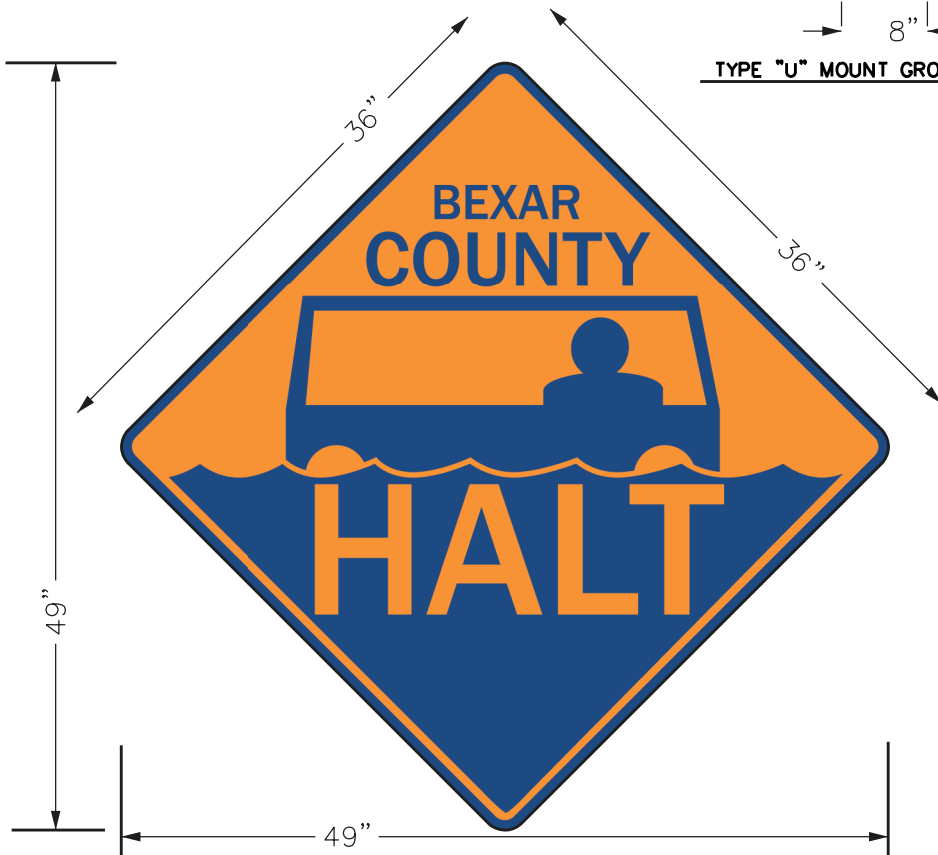
CORNER BOLT FLANGED WASHER NUT 6"

MIN 1 CU. FT. OF CLASS C CONCRETE FOOTING

TOP 12" OF STUB TO BE COVERED WITH TAPE TO KEEP POST FREE OF CEMENT

6" X 3/8" DIA. STEEL PIN OR DISFIGURED END OF ANCHOR

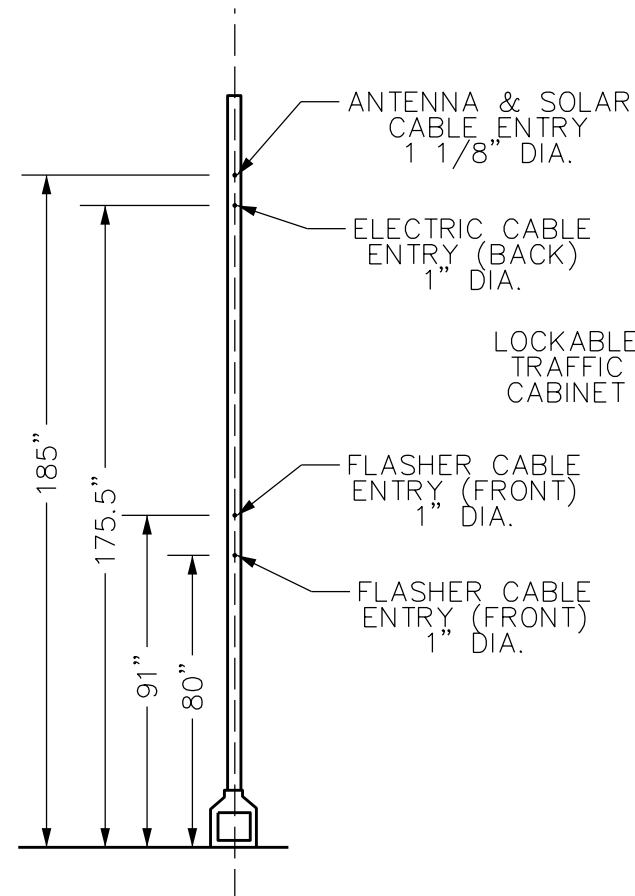
TYPE "U" MOUNT GROUND SIGN



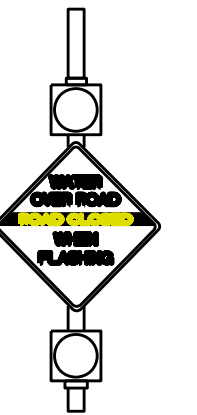
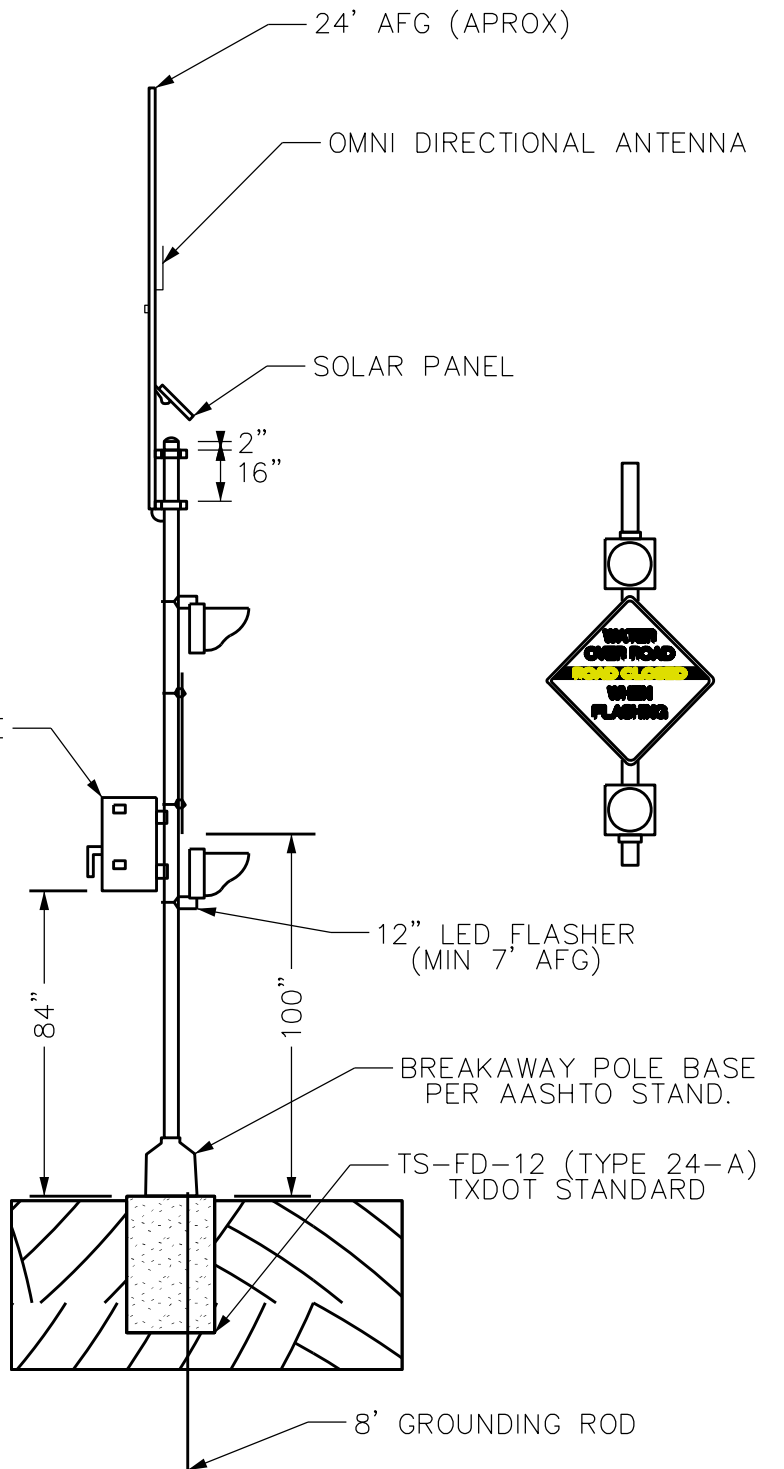
METAL TUBING	SIGN AREAS	
	10 SQ FT OR LESS	MORE THAN 10 SQ FT
GALVANIZED SQUARE SIGN POST (PERFORATED)	1-3/4" X 1-3/4" (14 GAUGE)	2" X 2" (12 GAUGE)
GALVANIZED SQUARE ANCHOR STUB (PERFORATED)	2" X 2" (14 GAUGE)	2-1/4" X 2-1/4" (14 GAUGE)

THE ABOVE INFORMATION WAS TAKEN FROM THE CITY OF SAN ANTONIO PUBLIC WORKS DEPARTMENT - GENERAL NOTES AND GROUND SIGN MOUNTING DETAILS

OPTIONAL DIRECTIONAL ANTENNA



LOCKABLE TRAFFIC CABINET



ATTACHMENT No. 2

GARCIA & WRIGHT CONSULTING ENGINEERS, INC.
 REGISTRATION NO. F-1802
 407 W. RHAPSODY, SAN ANTONIO, TX., 78216
 (210)349-5253 (210)349-0715 WWW.GARCIAWRIGHT.COM

CITY OF SAN ANTONIO
 TRANSPORTATION & CAPITAL IMPROVEMENTS (TCI) DEPARTMENT

FORT SAM ISD NEW ROADWAY
 WINANS ROAD TO RITTIMAN ROAD
GROUND SIGN INSTALATION
 (TYPICAL)

100% SUBMITTAL PROJECT NO.: 23-01581 DATE: 02-20-2020
 DRWN. BY: ALT DSGN. BY: ALT CHKD. BY: RHG JR SHT NO.: 02 OF 15

ATTACHMENT 3

OUTREACH AND COMMUNICATION WITH STAKEHOLDERS

Sean Strong (PWD)

From: Sean Strong (PWD)
Sent: Thursday, April 30, 2020 1:54 PM
To: Sean Strong (PWD)
Subject: FW: [EXTERNAL] Ft Sam ISD New Roadway - Maestas Floodplain Mapping Technical Memo / Study

To Whom It May Concern:

As noted below, Cole High School's main access is from Harry Wurzbach Road. The proposed Ft. Sam ISD New Roadway project provides a secondary access route to Cole High School for large school events to improve accessibility during such events.

Thank you,

Sean D. Strong, P.E.

Senior Engineer/ Project Manager

Public Works Department

Mailing: P.O. Box 839966 | San Antonio, TX 78283-3966

Work: 114 W. Commerce Street, #520 | San Antonio, TX 78205

O: 210.207.8037 | F: 210.207.7196

www.sanantonio.gov/tci



From: Novak, Julie [<mailto:jnovak@fshisd.net>]

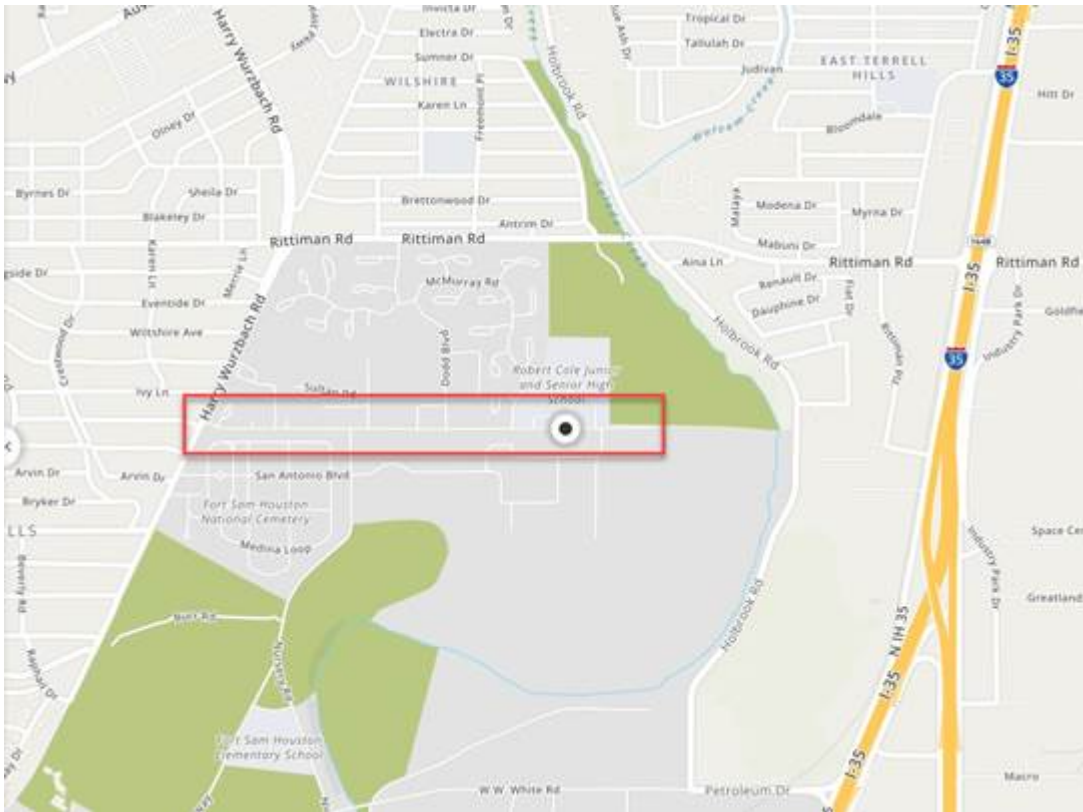
Sent: Wednesday, February 19, 2020 7:42 AM

To: Sean Strong (TCI); SMITH, WILEY E GS-12 USAF AETC 502 CES/CEPD; WIMBERLEY, JAMES W GS-13 USAF AETC 502 CES/CENP; Morgan, Don N CIV USAF 502 ISG (USA); BAISH, CHARLES F III CIV US Air Force 802 CES 802 CIVIL ENGINEER SQ/JB San Antonio

Cc: Smith, Wiley E CIV USAF (USA); Juan Contreras (TCI); Zachry Kircus (TCI); Richard Grochowski (TCI); David McBeth (TCI)

Subject: RE: [EXTERNAL] Ft Sam ISD New Roadway - Maestas Floodplain Mapping Technical Memo / Study

Sean – Our primary access to/from Cole High School will remain as Winans Road to Harry Wurzbach Road. See area in red triangle below.



Julie P. Novak, RTSBA

Chief Financial Officer

Fort Sam Houston ISD

4005 Winans Road, San Antonio, TX 78234

O 210-368-8705 | F 210-368-8741 | M 210-559-9309

*The school is the last expenditure upon which America
should be willing to economize.*

Franklin D. Roosevelt

Report Date 05/29/2020 07:22 AM

Submitted By

Page 1

A/P # 10228 PRELIMINARY PLAN REVIEW

Applicants/Contacts

Primary Y Capacity APPL Contact ID AC436869 ☐ Foreign
Effective Expire
Name RAUL H GARCIA
Day Phone Eve Phone Organization GARCIA & WRIGHT CONSULTING ENG
Pager PIN # Position
Fax Mobile Profession
E-Mail
Address 407 W RHAPSODY
SAN ANTONIO, TX 78216

Comments

Addition Info

Contact Creation Date: 05/20/2020 11:25

PIN: 0

Contact Record Creator: 144124

Drivers License:

State

Number

Background Check:

Boarding Home:

City Customer ID 0

Boarding Home Status:

Full contact name:

Boarding Home Status Dt:

CNTCTKEY 437395

No Comments

Contractors

No Contractors

Fees	Status	Paid Date	Amount
PROJECT ADMIN EXCEPTION VARIANCE REQUEST	P	05/26/2020 15:30	350.00
Total Unpaid	0.00	Total Paid	350.00

Template Type	A/P #	A/P Type	Status	Stage
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No children exist for this project

Employee ID	Last	First	MI	Comments
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No Employee Entries

Log Action	Description	Entered By	Start	Stop	Hours
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No Log Entries