

#### **Permit to Construct Access Driveway Facilities** on Highway Right of Way

	PERMIT NUMBER: 22020001								
			GPS*	ROAD	DWAY				
REQUESTOR		ESTOR	LATITUDE, LONGITUDE	HWY NAME	FM 521				
$\vdash$			29.216766, -95.47113	FOR TxD					
ı				CONTROL	0111				
$\vdash$	NAME Anchor Holdings MP, LLC c/o Quiddity Engineering SECTION 05								
$\vdash$	MAILING ADDRESS 6330 WEst Loop South, Suite 150								
$\vdash$	CITY, STATE, ZIP   Bellaire, TX 77401 PHONE NUMBER   713-777-5337								
*G			OF DRIVEWAY CENTERLINE WITH	ABUTTING ROADWAY					
he sto	The Texas Department of Transportation, hereinafter called the State, hereby authorizes hereinafter called the Permittee, to construct / reconstruct a (3) Street Tie-Ins (residential, convenience store, retail mall, farm, etc.) access driveway on the highway right of way abutting highway number FM 521 in Brazoria  County, located FM 521 and CR 32  USE ADDITIONAL SHEETS AS NEEDED								
		tion with the State of Texas? nember of Permittee an empl	☐ YES ☑ NO oyee or official of the Texas D	epartment of Transportation	? ☐ YES ⊠ NO				
int	terest in Permittee?	ES NO	Fransportation serve as an em bed on page 2 and the follow		e or own a controlling				
1.		agrees to comply with the te	rms and conditions set forth i	n this permit for construction	and maintenance of an				
2.		and the access management	es, as shown in the attached s standards set forth in the Ac						
3.	Construction of the drive	way shall be in accordance w	ith the attached design sketc	h, and is subject to inspection	n and approval by the State.				
4.	4. Maintenance of facilities constructed hereunder shall be the responsibility of the Permittee, and the State reserves the right to require any changes, maintenance or repairs as may be necessary to provide protection of life or property on or adjacent to the highway. Changes in design will be made only with prior written approval of the State.								
5.	5. The Permittee shall hold harmless the State and its duly appointed agents and employees against any action for personal injury or property damage related to the driveway permitted hereunder.								
6.	6. Except for regulatory and guide signs at county roads and city streets, the Permittee shall not erect any sign on or extending over any portion of the highway right of way. The Permittee shall ensure that any vehicle service fixtures such as fuel pumps, vendor stands, or tanks shall be located at least 12 feet from the right of way line to ensure that any vehicle services from these fixtures will be off the highway right of way.								
7.			iveway permit in the event of on or other modification of th						

10. The Permittee will contact the State's representative , at least twenty-four (24) hours prior to beginning the work authorized by this permit. telephone, (979 ) 864-8551

9. This permit will become null and void if the above-referenced driveway facilities are not constructed within six (6) months from the issuance

Robert Etheredge

11. The requesting Permittee will be provided instructions on the appeal process if this permit request is denied by the State.

8. The State may revoke this permit upon violation of any provision of this permit by the Permittee.

date of this permit.

Form 1058 (Rev. 09/23) Page 2 of 3

10/24/2024	Signed Brian Guer
Date:	Signed: Druwc Docusigned By: (Property owner or owner's representative)
10/23/2024	María Pilar Aponte
Date of Issuance	C8B39625B1F14DE District Engineer, or designee Approval
Date of Issuance as per Variance to AMM	District Engineer, or designee Approval
Date of Denial	District Engineer Denial (No Delegation)
	Access Driveway Policy
Management Manual" establish policy for the grant highways. All driveway facilities must follow this po	Chapter 11 (Design), Subchapter C (Access Connections To State Highways) and the "Access ing of access and the design, materials, and construction of driveways connecting to state licy. To the extent there is any conflict between this permit and the policy, the policy shall with the access management standards, the owner may seek a variance to a requirement ontacting the local TxDOT office.
TxD	OT Driveway Permit Request Contact
	Request or variance request, visit: <a href="http://www.txdot.gov/inside-txdot/district.html">http://www.txdot.gov/inside-txdot/district.html</a> . You can on to find the local TxDOT office. You can also click on the drop down box below the map to
	Other Conditions
In addition to Items 1 thru 11 on page 1 of this permi following additional conditions stated below:	t, the facility shall also be in accordance with the attached sketch and subject to the
Provide for a 44' wide street tie-in using a single Provide for a 80' wide street tie-in using a single Provide for a 71' wide street tie-in using a single According to plans dated 10-04-2024. Donation Also, attached Special Provisions dated July 1, 2 Hydraulic re-approval per following specs.: Proposed 3 street tie in on FM 521 School driveway 1 (Stat 226+40.51) Roadway width = 71 ft and radius = 25 ft and 30 Proposed 106 LF of 24" RCP culvert w/SET. Roadway 1: (Sta 235+44.13) Roadway width = 44 ft and radius = 35 ft Proposed 94 LF of 24" RCP culvert w/SET. Roadway 2 (Stat 253+43.01) Roadway width = 80 ft and radius = 35 ft and 30 Proposed 151 LF of 24" RCP culvert w/SET. No onsite drainage coming to TXDOT. Proposed site development will drain to a tribu	e row of 24" RCP with SETs and 35'radii. e row of 24" RCP with SETs and 25'/30' radii. n Agreement in progress. 2022 must be followed.
Var	iance Documentation Justification
For a Variance request, please indicate which of the k	pelow are applicable, as required by TAC §11.52(e):
including the loss of reasonable access to the	al property or its use will likely result from the denial of its request for the variance, property or undue hardship on a business located on the property.  Rists that was not caused by the property owner and justifies the request for the variance.

Docusign Envelope ID: A1A87D61-850E-48CE-8C83-D6478DCB34A9

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For the conditions selected above, provide written justification below. (Attach additional sheets, if needed)
For TXDOT use below:
For Variance denials, please indicate which of the below conditions, as provided in TAC §11.52(e), were determined:
adversely affect the safety, design, construction, mobility, efficient operation, or maintenance of the highway; or
likely impair the ability of the state or the department to receive funds for highway construction or maintenance from the federal government.
Attachments:
Sketch of Installation

**All Variance Documentation** 

Revised July 1, 2022

- 1. The Permittee is responsible for all costs associated with the construction of this access driveway.
- 2. All Pipes used shall be Reinforced Concrete Pipe (RCP), unless otherwise specified.
- 3. Culvert crossings within the 30-foot clear zone (parallel culverts) shall be required to have minimum 6:1 sloping ends known as Safety End Treatments (SETs). The culvert shall have sufficient length to allow the 6:1 slope to be achieved from the edge of pavement to the flowline at the end of the SET. Culverts that exceed 50'f in length shall have a junction box for clean out, or as specified by the TxDOT Area Engineer.
- 4. Culverts larger than single 33-inch diameter, double 30-inch diameter, or three or more 12-inch diameter shall require safety pipe runners.
- 5. Riprap or stabilizing material shall be provided and installed by grantee at time of construction, or as directed by the TxDOT Area Engineer.
- 6. For TxDOT-maintained ASPHALT SURFACED PAVEMENT, no concrete pavement or curbing shall be allowed within State right of way.
- 7. For TxDOT-maintained CONCRETE SURFACED PAVEMENT, additional full-depth saw cuts may be made as needed to facilitate removal of the concrete within the limits of the required full-depth cuts. Concrete adjacent to the patch shall not be spalled or fractured by the removal procedure.
- 8. Placement or removal of beautification on State right of way shall be under the direction of TxDOT.
- 9. The Permittee certifies that its storm water runoff to the State's right of way shall not be contaminated by any industrial processes or significant pollutants, and the State shall not be held liable for any pollutants entering State right of way through storm water connections.
- 10. The Permittee be in compliance with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the Texas Accessibility Standards (TAS), and Texas Department of Licensing and Regulation (TDLR) requirements for items including but not limited to sidewalks, landings, and wheelchair ramps.
- 11. Permittee shall obtain overall environmental clearance with all appropriate regulatory agencies prior to beginning construction. Approval of this request by TxDOT does not relieve the Permittee or its agents of this obligation.
- 12. Work performed on railroad right-of-way, or easements controlled by others, is subject to the concurrence of the owner of said properties. Approval of this request by TxDOT does not relieve the Permittee of this obligation.
- 13. The complete permit package shall be on the project site at all times and available for review by TxDOT.
- 14. TxDOT will inspect the construction and may provide the flow-line elevation.

Revised July 1, 2022

- 15. All work within the State of Texas right-of-way shall be performed in accordance with State standards and specifications as to the installation and materials used. All materials and mix designs to be placed in TxDOT right-of-way must be obtained from TxDOT approved sources and be of approved TxDOT mix designs.
- 16. At least five (5) working days prior to any excavation, permittee shall request the location of all underground utilities within the work area by calling 811, and contacting local municipalities, utility districts, school districts, or any other utility owners. TxDOT-owned fiber optic, communications, power, illumination, and traffic signal cabling and conduit can be located by calling the TxDOT Houston District Traffic Operations Office at HOU-LocateRequest@txdot.gov. Do not perform underground work on the project until TxDOT owned facilities have been located and marked. Use caution when working in these areas to avoid damaging or interfering with existing facilities. Permittee shall be responsible for relocating and/or adjusting any utilities within the work area.
- 17. This permit is subject to a separate traffic control plan being approved by the Area Engineer. All work must follow the <a href="Ixx00T Traffic Control Plan Standards">Ixx00T Traffic Control Plan Standards</a>, Latest Revision, or if approved, Typical Applications shown in the Texas Manual on Uniform Traffic Control Devices, Latest Revision, Chapter 6-H. The advanced warning signage shown on standards BC(1)-21 thru BC(12)-21 will be required. It is mutually agreed and understood that the implementation and maintenance of the traffic control plan shall be the responsibility of the Permittee. Contractor is required to supply all sub-contractors with a copy of this permit and approved traffic control plan.
- 18. The Permittee shall coordinate the sequence of construction and traffic control plan with any adjacent highway construction or maintenance projects. No overnight lane closures will be permitted, unless otherwise approved by the Area Engineer.
- 19. Work performed within the waterways, such as rivers, creeks, bayous, and drainage ditches, is subject to the concurrence of appropriate regulatory agencies. Permittee shall use Best Management Practices to minimize erosion and sedimentation resulting from proposed activities. Permittee certifies that its drainage system meets all storm water quality criteria of the County and/or City where the permit is located. Construction and/or maintenance of this project shall not adversely affect the drainage patterns within the area.
- 20. All excavations within the right-of-way shall be backfilled according to the <a href="IxDOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges">IxBOT Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges</a> (SPECS), Item 400, as currently amended. All surplus material shall be removed from the right-of-way, and the excavation finished flush with surrounding natural ground.
- 21. In no event will an edge drop-off be permitted during the hours of darkness. If the Contractor is unable to complete a section before the end of the workday, base material capable of vehicle support shall be pulled back to the existing edge on a 4:1 or flatter slope, to provide for driver and pedestrian safety.
- 22. The Contractor shall not create a dirt nuisance or safety hazard in any roadway. The pavement shall be cleaned daily.

Revised July 1, 2022

- 23. All exposed dirt surfaces shall be sodded, unless otherwise approved by the Area Engineer. A slope of 4:1, or flatter, shall be required on the ditch front slope.
- 24. No trees, vegetation, valves, meter boxes, cleanouts, ground boxes, handholes, manhole covers, etc. will be allowed in the pavement. These appurtenances shall be relocated elsewhere within the right-of-way, unless otherwise approved by the Area Engineer.
- 25. The Texas Universal Triangular Slip Base Sign Supports shall be required for all signage within TxDOT right-of-way. Proposed signs, or those which require relocation, shall be done in accordance with the following <a href="TxDOT Sign Mounting Details Standards">TxDOT Sign Mounting Details Standards</a>: SMD (GEN)-08, SMD (SLIP-1)-08, SMD (SLIP-2)-08, and SMD (SLIP-3)-08.
- 26. All work zone pavement markings shall meet the requirements of SPECS, Item 662. All permanent pavement markings shall meet the requirements of SPECS, Item 666, and be placed in accordance with the following <a href="IXXOOT Pavement Standards">IXXOOT Pavement Standards</a>: PM(1)-20, PM(2)-20, PM(3)-20, and PM(4)-22. All raised pavement markers shall meet the requirements of SPECS, Item 672.
- 27. Existing pavement markings shall be removed according to the requirements of SPECS, Item 677, or to the satisfaction of the Area Engineer. All pavement surfaces shall be cleaned and prepared in accordance with SPECS, Item 678.
- 28. For roadway improvements and Street Tie-Ins, the Contractor shall employ at his/her expense, an approved commercial testing laboratory to perform testing on concrete to determine the in-situ strength. Make at least one set of test specimens for each element cast each day. Cure these specimens under the same conditions as the portion of the structure involved for all stages of construction. Ensure safe handling, curing, and storage of all test specimens. Sample and test the hardened concrete in accordance with SPECS, Item 421. Certified reports of all test results shall be submitted to the Area Engineer.
- 29. Should the existing roadway pavement or other feature be damaged, it shall be repaired as specified by the Area Engineer.
- 30. Construction Access Permits are to expire after 12 months, unless renewed.
- 31. The Permittee acknowledges and fully accepts responsibility and liability for the design, construction, maintenance, and operation of this project, which shall be the responsibility of the Grantee for the life of the project. The Permittee shall indemnify and save harmless the State from any and all damages or losses that may develop due to this project.
- 32. All TxDOT Standard Sheets are available online for free download:

Statewide http://www.dot.state.tx.us/business/standardplanfiles.htm

Houston District <a href="http://www.dot.state.tx.us/hou/specinfo/specs.htm">http://www.dot.state.tx.us/hou/specinfo/specs.htm</a>

Revised July 1, 2022

- 33. The contractor or sub-contractor is required to contact the TxDOT <u>Local Maintenance</u> <u>Office</u> Supervisor a minimum of 72 hours prior to commencing any work.
- Brazoria Maintenance Office Permit Section 2: 979-864-8550
- Galveston Maintenance Office Permit Section 3: 409-978-2551
- Fort Bend Maintenance Office Permit Section 4: 281-238-7950
- Montgomery Maintenance Office Permit Section 5: 936-538-3350
- Southeast Harris Maintenance Office Permit Section 6: 281-464-5540
- Waller Maintenance Office Permit Section 7: 979-921-2400
- West Harris Maintenance Office Permit Section 8: 713-934-5900
- Metro Houston Maintenance Office Permit Section 9: 713-636-7400
- North Harris Maintenance Office Permit Section 10: 281-319-6450

TRACKING NO. TR22020001 Rev 3 ROADWAY FM 521

TRACKING NO. 1R22020	UU1 Rev 3	ROADWA	r FIV	/1 521
Area O	ffice Rev	view Fori	n	
What does the AO recommend?	1	2	3	4
Driveway or Street-Tie Width:	44'	80'	CTLLY TENE	
Culvert / Pipe Size:	24"	24"		,
Number of Rows of Pipe:	One	One		
SETs Required (yes/no):	Yes	Yes		
Radii Returns:	35'	35'		
Please answer the following questi	ons:			
What is the pavement material of the	adjacent TxDC	T roadway? /	Asphalt	
Does the drawing accurately show the	features of the	e right-of-way?	Yes	
What is the posted speed limit of the a	adjacent TxDO	T roadway? 6	0 MPH	
safety, efficient operation, or maintena If yes, please explain below. What is the date on the final / revised	mlana?	hway? Circle ye	es or no.	YES NO
Additional Comments:  Street Tie-In (2) Turn Lanes Traffic Signals Donation Agreement in progress				
Inspected by: Scott Olserny		1	Date: 10-10	1.24

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À	
	Texas Department
	Department of Transportation

## **Houston District Access Permit**

Texas Department of Transportation	Application Help	Applic			Submit by Email
Date of Submittal:	Aug 17, 2022	DF-M200	Version	1.0	
Name of Applicant	Anchor Holdings MP, LL Permittee (Prop	C perty Owner)	Ashton Gray Dev	elopment Name of Site	
	Quiddity Engineerin Br	ian Geier	0 FM 521		
	Consulting Firm	Contact Person	\$	Site Address / Locat	ion / Limits
Email Permit To:	bgeier@quiddity.com	(713) 777-5337	Angleton	TX	77515
	Contact Email Address	Contact Phone	City	State	Zip Code
	6330 West Loop South,	Suite 150	Latitude 29.21676	66 Longitu	de -95.47113
•	Contact Add	Iress	Is this parcel in curr	ent litigation with	n the State of
	Bellaire TX	77401	Texas?	○ Yes	<ul><li>No</li></ul>
	City Sta	te Zip Code			
Request:	□ Sidewalk  ⊠1		Signal □ Prelim	(A	ontrolled Access DL Break)
Highway:FM0521		Name of clos	sest cross street:C	R 32	<del></del>
Is Highway withi	n an incorporated city	? ∐Yes ⊠No C	Dity:	County	Brazoria
Property on which	ch side of highway? (	◯ Northbound	outhbound	und	bound 
Number of reque	ested driveway(s):	Number	of requested street	tie-in(s): 2	
Number of Existi	ing access(s) to be mo	odified:			
Date of Sign and Se (Except Preliminary	eal Plans Submittal: Aug	17, 20 <b>2</b> Tracking N	No: TR22020001	Revision No:	1
Type of highway	design?	⊠ Open Ditch	Both		
If open ditch, ins	ide diameter of neares	st upstream and do	wnstream pipes: <u>2</u>	4.00	
	ng roadway median o oroposed driveway? If		•		☐ Yes ⊠ No
Does this reques	st include any drainag	e coming to TxDO	Γ? ⊠ Yes □ I	No	
•	me of entity/agency/au been developed:	uthority that will rec	eive any drainage o	outfall / storm	discharge

Please complete and attach the Drainage/Hydraulic Checklist.

The drainage / hydraulic checklist must be completed and submitted for street tie-in, commercial access and drainage-only permit applications.

Upon request, please provide a copy of the approval letter from the drainage authority.

# **Houston District Access Permit Application**DF-M200 2-2022

<b>1. Purpose of Request:</b> Explain the need for proposed access. Proposed op frequency of use of proposed access, approximate types and sizes of vehicles access for each individual year of the next three years.	
Quiddity is construction a street tie-in on the east side of FM 521 across from street tie-in on the east side of FM 521 approximately 2600 feet north of CR proposed Ashton Gray Development tract. Refer to the TIA for more information.	32 South, into the

	Quiddity is construction a street tie-in on the east side of FM 521 across from CR 32 South and a street tie-in on the east side of FM 521 approximately 2600 feet north of CR 32 South, into the proposed Ashton Gray Development tract. Refer to the TIA for more information.							
pı pı	<b>2. Background:</b> Date chronology of previous correspondence, meetings, or discussions about proposed access, identification of property zoning or approved platting, if applicable. Include any previous approved permits, permit applications, preliminary approvals, and tracking numbers, if applicable.							
la rc rc	Existing roadway characteristics: At location(s) of proposed access: Number of roadway nes in each directions, Approximate width of roadway lanes / shoulders, Posted speed of badway, Roadway pavement material (asphalt, concrete, gravel, dirt). Also, is there an existing badway median opening, entrance / exit ramp, or traffic signal within one-thousand feet of the proposed access?							
	FM 521 is an undivided asphalt roadway with 2 12-foot lanes, a 10.5-foot shoulder, and a roadside ditch. The posted speed limit is 60 mph. See the attached plans for dimensions.							
la e	. Environmental Clearance Requirements: If the access request includes work on right turn anes, roadway widening, excavation or median opening changes, please provide the nvironmental requirements/reports that will be needed to be completed once design is approved y TxDOT. (Please complete form Environmental Review for Permit Level Actions).							
	The Environmental Permit has been attached.							

5. Agreements: An agreement between TxDOT and the applicant will also be needed once all plans are finalized if the application includes roadway improvements such as Traffic Signals, Turn Lanes, Widenings, and Median Openings. Please refer to the Agreement Type Table to identity the type of agreement needed and describe below, if applicable.

This will be completed under a Donation Agreement. The Division "Owner" of Agreement is Contract Services and a private entity (Ashton Gray Development) will be entering into an agreement with TxDOT.



# REQUEST FOR APPROVAL TO ACCEPT GIFTS OR DONATIONS

Form 2294 (Rev. 7/17) Page 1 of 1

The department	t may accept a gift or donation if th	e gift or donation will further the	e department's responsibilities.
	g District/Division/Office:  t: Sue-Ning Lee	Houston - HOU - 12	hone: 713-504-2685
		1-1	1011C. 110-304-2000
Estimated V	ne Proposed Gift/Donation:		<u>\$525,000.00</u>
The donation street tie-instruction County, Texts contractor.	on of the Proposed Gift/Donat on consists of the design and cost from northbound/southbound cas. All design and construction The District has determined the fright of way or utilities.	onstruction of a right turn land FM 521 into the SH 288 Trains work will be provided by the	<u>ct development in Brazoria</u> e donor, it's consultant, or its
Donor Contact Authorized Sig Mailing Addres 101 Parklar Donor's Physic	Ashton Gray Development: Sudharshan Vernitars, City, State, Zip Code: ne Blvd, Suite 102, Sugar Land as mailing a	Phone Outty Title: Man  Texas 77478  Ting Address (cannot be a P.	
5. Intended U	se of Proposed Gift/Donation of the donation is to allow the ns on FM 521 in order to provid	donor to construct a right tur	rn lane, 2 left turn lanes, and ng public into the donor's
6. Describe the a. No		A SHARL SHOW IN COLUMN TO SHARL SHOW IN SHAR	e the department that will not
<i>b.</i> <u>No</u>			or oversight or interested in purchase, payment, or claim
"No" was s	s selected for either a or b or elected for a and b, enter N/A the donor's relationship to TxD	in a, b, and c below:	plete a, b, and c below. If
b. How will t <u>N/A</u>	the donation provide a significa	nt public benefit?	
	the donation not influence nor r nce of its duties?	easonably appear to influend	ce the department in the
Approved D	W		3/17/2
Approved By: Printed Name:	Supplacifim Vinavis	Title: MM	Date: 3/17/22 ANCHOR MAHORANAS

Form 1058 (Rev. 8/20) Page 2 of 2

#### **Access Driveway Policy**

Title 43 Texas Administrative Code (Transportation), Chapter 11 (Design), Subchapter C (Access Connections To State Highways) and the "Access Management Manual" establish policy for the granting of access and the design, materials, and construction of driveways connecting to state highways. All driveway facilities must follow this policy. To the extent there is any conflict between this permit and the policy, the policy shall control. If a proposed driveway does not comply with the access management standards, the owner may seek a variance to a requirement contained in the access management standards by contacting the local TxDOT office.

TxDOT Driveway Permit Request Contact								
For a local contact for your TxDOT Driveway Permit Request or variance request, visit: <a href="http://www.txdot.gov/inside-txdot/district.html">http://www.txdot.gov/inside-txdot/district.html</a> You can click on the section of the map closest to your location to find the local TxDOT office. You can also click on the drop down bostelow the map to find the district for your county.								
Other Conditions								
In addition to Items 1 thru 11 on page 1 of this permit, the facility shall also be in accordance with the attached sketch and subject to the following additional conditions stated below:								
Variance Documentation Justification								
For a Variance request, please indicate which of the below are applicable, as required by TAC §11.52(e):								
a significant negative impact to the owner's real property or its use will likely result from the denial of its request for the variance, including the loss of reasonable access to the property or undue hardship on a business located on the property.								
an unusual condition affecting the property exists that was not caused by the property owner and justifies the request for the variance.								
For the conditions selected above, provide written justification below. (Attach additional sheets, if needed)								
For TXDOT use below:								
For Variance denials, please indicate which of the below conditions, as provided in TAC §11.52(e), were determined:								
adversely affect the safety, design, construction, mobility, efficient operation, or maintenance of the highway; or  likely impair the ability of the state or the department to receive funds for highway construction or maintenance from the federal government.								

Attachments:

Sketch of Installation

**All Variance Documentation** 

From: <u>Tan Luong</u>

To: <u>HOU-Braz-InternalPermitReview</u>

Cc: Michelle Howe

Subject: TR22020001 FM 521 at CR 32\_ HYDRAULIC RE-APPROVAL\_10-23-2024

**Date:** Wednesday, October 23, 2024 1:38:15 PM

#### Michelle,

Here is hydraulic re-approval for revision. Please note that hydraulic did not ask for ROW donation before because this plan submitted before Oct 2022. From begin of Nov 2022 we start to ask for ROW donation for any widening project. It is up to the AO decision if ROW donation is asking for this project.

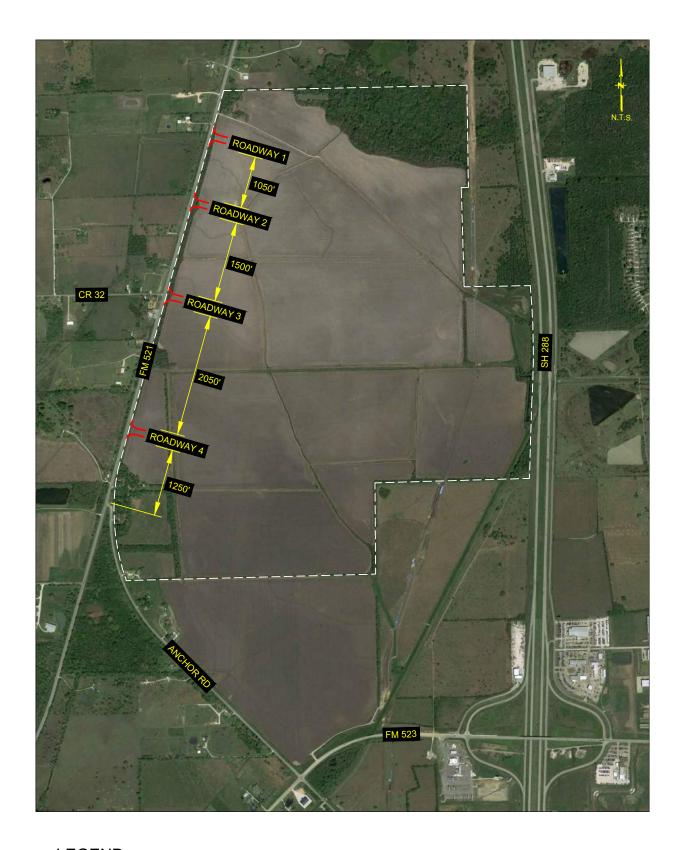
Hydraulic re-approval per following specs.:

- Proposed 3 street tie in on FM 521
  - School driveway 1 (Stat 226+40.51)
    - Roadway width = 71 ft and radius = 25 ft and 30 ft
    - Proposed 106 LF of 24" RCP culvert w/SET.
  - Roadway 1: (Sta 235+44.13)
    - Roadway width = 44 ft and radius = 35 ft
    - Proposed 94 LF of 24" RCP culvert w/SET.
  - Roadway 2 (Stat 253+43.01)
    - Roadway width = 80 ft and radius = 35 ft and 30 ft
    - Proposed 151 LF of 24" RCP culvert w/SET.
- No onsite drainage coming to TXDOT.
- Proposed site development will drain to a tributary of Oyster Creek.
- Last updated plans: 10/04/2024.
- Plan is stored at the following directory:

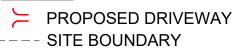
P:\02 - Brazoria\2022 Permits\TR22020001\FM 521 Ashland Signals\_Flashing Beacon\_...gned and Sealed\_Compiled Plans (3).pdf

#### Thanks,

Tan Luong, P.E. Houston District Hydraulic Section (713) 802-5565 (office) (281) 685-5830 (cell) Email: tan.luong@txdot.gov



## LEGEND:



DRIVEWAY SPACING DIAGRAM





From: <u>Tan Luong</u>

To: <u>HOU-Braz-InternalPermitReview</u>

Subject: TR22020001 FM 521 at CR 32\_ HYDRAULIC RE-APPROVAL\_11-14-2023

**Date:** Tuesday, November 14, 2023 10:04:00 AM

Michelle,

Revision No 3 of TR22020001 adding TIA, hydraulic is unchanged. Onsite drainage will drain to Oyster Creek. Here is hydraulic re-approval for revision. Please note that hydraulic did not ask for ROW donation before because this plan submitted before Oct 2022. From begin of Nov 2022 we start to ask for ROW donation for any widening project. It is up to the AO decision if ROW donation is asking for this project.

Hydraulic re-approval per following specs.:

- Proposed 2 street tie in on FM 521
  - Location 1 (Stat 513)
    - Roadway width = 80 ft and radius = 35 ft
    - Proposed 151 LF of 24" RCP culvert w/SET.
  - Location 2: (Sta 531)
    - Roadway width = 44 ft and radius = 35 ft
    - Proposed 94 LF of 24" RCP culvert w/SET.
- No onsite drainage coming to TXDOT.
- Proposed site development will drain to a tributary of Oyster Creek.
- Per plans dated: 07/18/2023.

The plan is too large to attach along with this email. I placed the final hydraulic approval plan set on the following directory in P drive:

P:\02 - Brazoria\2022 Permits\TR22020001\Hydraulic Approval Plan

Thanks,

Tan Luong, P.E.
Houston District Hydraulic Section
(713) 802-5565 (office)
(281) 685-5830 (cell)
Email: tan.luong@txdot.gov

# CONSTRUCTION

OF

# TURN LANES & TRAFFIC SIGNALS

INDEX OF DRAWINGS

57

83c-83d

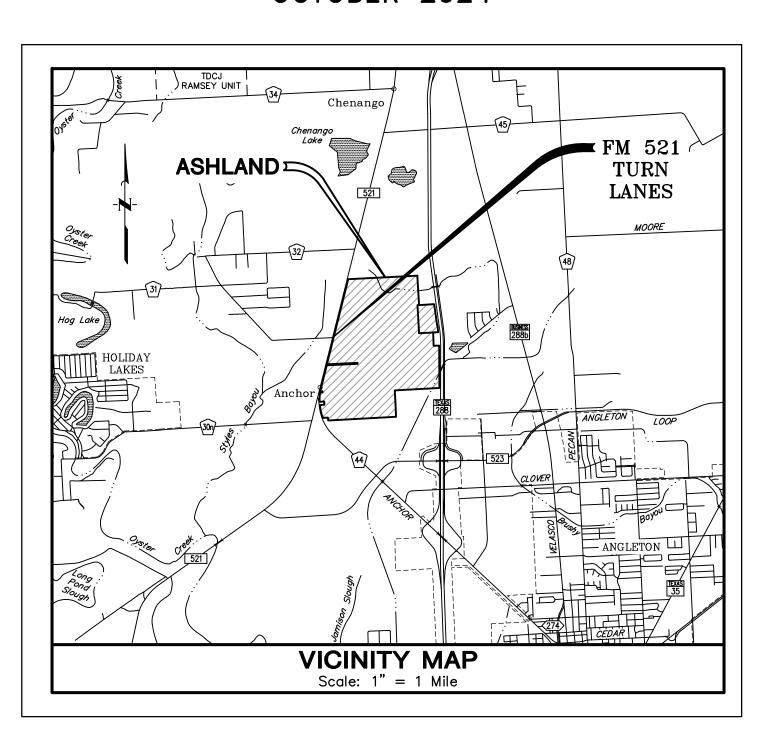
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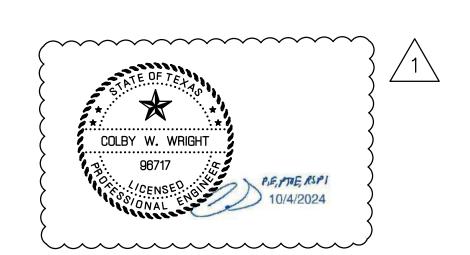
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104

SHEET No. TITLE ON COVER & INDEX TRAFFIC CONTROL NARRATIVE SUMMARY OF QUANTITIES & DRAINAGE CALCULATIONS FM 521 FM 521 PLAN VIEW FM 521 SIGNING & PAVEMENT MARKINGS 16-17 TXDOT SETP-CD DETAILS TXDOT SETP-PD DETAILS **FOR** TXDOT PSET-SC DETAILS 19 20 TXDOT PSET-SP DETAILS 21 TXDOT TE (HMAC)-11 DETAILS BRAZORIA COUNTY MUNICIPAL TXDOT DRIVEWAY DETAILS TXDOT PED-18 DETAILS 29 TXDOT EC(1)-16 DETAILS TXDOT EC(3)-16 DETAILS TXDOT PM-22 DETAILS TXDOT SMD-08 DETAILS UTILITY DISTRICT NO. 82 TXDOT BC-21 DETAILS TXDOT WZ(TD)-17 DETAILS TXDOT WZ(STPM)-23 DETAILS TXDOT WZ(BRK)-13 DETAILS

OCTOBER 2024





SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS SHALL GOVERN THIS PROJECT.

NOTICE

TXDOT WZ(UL)-13 DETAILS

TXDOT WZ(RS)-22 DETAILS

TXDOT TCP(2)-18/23 DETAILS

TXDOT TCP(3-1)-13 DETAILS TXDOT TCP(3-3)-14 DETAILS TXDOT TCP(7-1)-13 DETAILS

PLAN LAYOUT NOTES

SUMMARY OF TRAFFIC SIGNAL QUANTITIES

FM 521 AT (FUTURE) CORAL HAVEN LANE EXISTING LAYOUT FM 521 AT CORAL HAVEN LANE EXISTING LAYOUT (FUTURE)

FM 521 AT (FUTURE) SCHOOL DRIVEWAY 1 EXISTING LAYOUT FM 521 AT SCHOOL DRIVEWAY 1 EXISTING LAYOUT (FUTURE)

FM 521 AT CORAL HAVEN LANE SIGNING AND PAVEMENT MARKINGS LAYOUT

FM 521 AT SCHOOL DRIVEWAY 1 SIGNING AND PAVEMENT MARKINGS LAYOUT

FM 521 AT CORAL HAVEN LANE PROPOSED LAYOUT

FM 521 AT SCHOOL DRIVEWAY 1 PROPOSED LAYOUT

FM 521 AT CR 32 EXISTING LAYOUT (FUTURE)

FM 521 AT CR 32 EXISTING LAYOUT

FM 521 AT CR 32 PROPOSED LAYOUT

TXDOT CD PM (APS) PS DETAILS

TXDOT CFA-12 DETAILS TXDOT ED-14 DETAILS

TXDOT LUM-A-12 DETAILS
TXDOT MA-C-12 DETAILS
TXDOT MA-D-12 DETAILS
TXDOT MA-DPD-20 DETAILS
TXDOT OSNS MD DETAILS

TXDOT RFBA-13 DETAILS TXDOT SD SCFD DETAILS

TXDOT SD S BSM DETAILS

TXDOT SMA-100-12 DETAILS

TXDOT TS-BP-20 DETAILS

TXDOT TS-FD-12 DETAILS

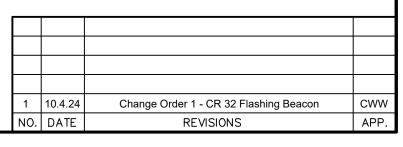
TXDOT RS(2)-23 DETAILS

CALL AT LEAST 2 WORKING DAYS (48 HOURS) BEFORE YOU DIG

TEXAS811 (DIG TESS) (1-800-344-8377)

OR 
LONE STAR NOTIFICATION CENTER (1-800-669-8344)





LANES & TRAFFIC SIGNALS ON FM

		MATERIAL OF HIGHWAY TRAF	FIC SIGN	IAL			
ITEM NO.	DESC. CODE	DESCRIPTION	UNIT	FM 521 AT CORAL HAVEN LANE	FM 521 AT SCHOOL DRIVEWAY 1	FM 521 AT CR 32	TOTAL ESTIMATE
416	6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF	43	43	60	146
500	6001	MOBILIZATION	LS	1	1	1	3
502	6001	BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	3	3	3	9
302	0001	BARRICADES, SIGNS, AND TRAIT IC HANDLING	IVIO	3	3	<u> </u>	· · · · · · · · · · · · · · · · · · ·
618	6046	CONDT (PVC) (SCH 80) (2")	LF	200	275	115	590
618	6053	CONDT (PVC) (SCH 80) (3")	LF	140	155	195	490
618	6054	CONDT (PVC) (SCH 80) (3") (BORE)	LF	120	50	210	380 `
620	6007	ELEC CONDR (NO.8) BARE	LF	420	365	460	1245
620	6011	ELEC CONDR (NO.4) BARE	LF	40	115	<b>\</b> 60	215
620	6012	ELEC CONDR (NO.4) INSULATED	LF	80	230	120	430 <
621	6005	TRAY CABLE (4 CONDR) (12 AWG)	LF	315	475	430	1220
624	6009	GROUND BOX TY D (162922)	EA	5	4	5	14
				<u> </u>	1		
628	6145	ELC SRV TY D 120/240 060(NS)SS(E)SP(O)	EA	1	1	1	3
636	6001	ALUMINUM SIGNS (TY A)	SF	18	18		36
644	6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	2	2		) 4
644	6076	REMOVE SM RD SN SUP&AM	EA	1	1		2
666	6048	REFL PAV MRK TY I (W) 24" (SLD) (100MIL)	LF	55	55		110
666	6230	PAVEMENT SEALER 24"	LF	55	55		) 110
678	6008	PAV SURF PREP FOR MRK (24")	LF	55	55		110
<u> </u>			<u>~~</u>				
680	6001	INSTALL HWY TRF SIG (FLASH BEACON)	EA			1	1
	**	TRAFFIC SIGNAL CONTROLLER (FULLY ACTUATED WITH CABINET)	EA			) 1	1 )
	**	TRAFFIC SIGNAL CONTROLLER FOUNDATION	EA	)		1	1 \
	**	LED LUMINAIRE HEAD-EQUIVALENT TO 250W (HPS)	EA			2	2
	**	ROD,5/8" X 10' COPPER-CLAD GROUND (CONTROLLER ONLY)	EA			/ 1	1 /
	**	STREET NAME SIGN, "FM 521" (44"X18")	EA	)		2	2
	**	STREET NAME SIGN, "CR 32" (40"X18")	EA			2	2 )
	**	4G LTE ENABLED CELLULAR MODEM W/ ANTENNA AND POWER SUPPLY	EA		\	1	1
	**	18-INCH CABINET BASE EXTENSION	EA			<u> </u>	1 /
	**	MAST ARM DAMPER (REQUIRED)	EA		(	4	4/
680	6003	INSTALL HWY TRF SIG (SYSTEM)	EA	1	1	<u> </u>	2
	**	TRAFFIC SIGNAL CONTROLLER (FULLY ACTUATED WITH CABINET)	EA	1	1 (		) 2
	**	TRAFFIC SIGNAL CONTROLLER FOUNDATION	EA	1	1	<u> </u>	2
	**	LED LUMINAIRE HEAD-EQUIVALENT TO 250W (HPS)	EA	2	2		) 4
	**	ROD,5/8" X 10' COPPER-CLAD GROUND (CONTROLLER ONLY)	EA	1	1		2
	**	"LEFT ON GREEN ARROW ONLY" (30"X36") (R10-5)	EA	1	1	/	2
	**	STREET NAME SIGN, "FM 521" (44"X18")	EA	1	1		/ 2
	**	STREET NAME SIGN, "Coral Haven LN" (92"X18")	EA	2			2
	**	DETECTOR PROCESSOR	EA	1	1		) 2
	**	4G LTE ENABLED CELLULAR MODEM W/ ANTENNA AND POWER SUPPLY	EA	1	1	<u> </u>	2
***************************************	**	18-INCH CABINET BASE EXTENSION	EA	1	1		) 2
				· '	- '	<b>\</b> 1	• /

	MATERIAL OF HIGHWAY TRAFFIC SIGNAL					\	
ITEM NO.	DESC. CODE	DESCRIPTION	UNIT	FM 521 AT CORAL HAVEN LANE	FM 521 AT SCHOOL DRIVEWAY 1	FM 521 AT CR 32	TOTAL
682	6001	VEH SIG SEC (12 IN) LED (GRN)	EA	6	6		12
682	6002	VEH SIG SEC (12 IN) LED (GRN ARW)	EA	1	1 /		2
682	6003	VEH SIG SEC (12 IN) LED (YEL)	EA	6	6	6	18
682	6004	VEH SIG SEC (12 IN) LED (YEL ARW)	EA	1	1 ,		$\sim 2$
682	6005	VEH SIG SEC (12 IN) LED (RED)	EA	6	6	4	<b></b>
682	6006	VEH SIG SEC (12 IN) LED(RED ARW)	EA	2	2		4
682	6018	PED SIG SEC (LED) (COUNTDOWN)	EA	2			2
682	6054	BACK PLATE W/REFL BRDR (3 SEC) (VENT) ALUM	EA	6	6		12
682	6055	BACK PLATE W/REEL BRDR (4 SEC) (VENT) ALUM	EA	1	1 (		2
682	6061	BACK PLATE WYREFL BRDR (1 SEC) (VENT) ALUM	EA)		<u> </u>	10	10 \
					(		
684	6007	TRF SIG CBL (TY A)(12 AWG)(2 CONDR)	LF	235			235
684	6009	TRF SIG CBL (TY A)(12 AWG)(4 CONDR)	LF	345	/		345
684	6012	TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	LF	865	900	1255	3020)
***************************************	······································		***************************************				
686	6039	INS TRF SIG PL AM(S) 1 ARM (36') LUM	EA	1	1 (		2
686	6043	INS TRF SIG PL AM(S) 1 ARM (40') LUM	EA			2	2\
686	6045	INS TRF SIG PL AM(S) 1 ARM (44')	EA	1	1 (	2	(4)
686	6047	INS TRF SIG PL AM(S) 1 ARM (44') LUM	EA	1	1		2
<u> </u>							
687	6001	PED POLE ASSEMBLY	EA	2		\ <u></u>	2
••••••	**	SCREW-IN TYPE FOUNDATION	EA	2	(		) 2
688	6001	PED DETECT PUSH BUTTON (APS)	EA	2			2
	**	SIGN, PEDESTRIAN PUSH BUTTON (9"X15") (R10-3eL)	EA	1			) 1
	**	SIGN, PEDESTRIAN PUSH BUTTON (9"X15") (R10-3eR)	EA	1			1
688	6003	PED DETECTOR CONTROLLER UNIT	EA	1			1
<del></del>					(		
6058	6001	BBU SYSTEM (EXTERNAL BATT CABINET)	EA	1	1	1	3)
<b></b>		· · · · · · · · · · · · · · · · · · ·					
6155	6002	RADAR COMMUNICATION CABLE	LF	755	795		1550
6185	6002	TMA (STATIONARY)	DAY	30	30	30	90
					/		
6292	6001	RVSD(PRESENCE DET ONLY)	EA	3	3		6
					/		<del>\</del>
6292	6002	RVSD(ADVANCE DET ONLY)	EA	2	2		) 4
** MATE	RIAL SUBS	SIDIARY TO PERTINENT ITEM					

1 10.4.24 Change Order 1 - CR 32 Flashing Beacon NO. DATE

ASHTON GRAY DEVELOPMENT BRAZORIA COUNTY, TEXAS

FM 521 TURN LANES FM 521

SUMMARY OF TRAFFIC SIGNAL QUANITITIES



	0330 West Loop South, Suite 130 🕶	bellalie, i.	X //401 ¥ /13.///	JJJ1	
SCALE:			DGN. BY:	THC	
DATE:	OCTOBER 2024		DWN. BY:	LRM	
JOB NO.	16759-0010-05	DWG	G. NO		
SUBMITTE	ED:	SUR	V. BY:		
		FB	NO		



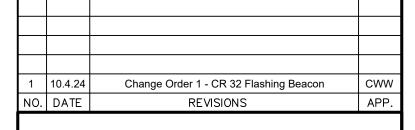
SHEET NO. 72 OF 104

#### NOTES FOR PERMANENT TRAFFIC SIGNAL(S):

- 1. INSTALL SIGNALS HORIZONTALLY ON MAST ARM, 17 FT. 6 IN. ABOVE THE ROADWAY
- 2. FURNISH BLACK HOUSING FOR VEHICLE AND PEDESTRIAN SIGNALS. FURNISH BLACK VEHICLE SIGNAL HEAD BACK PLATES WITH 2 IN. RETROFLECTIVE YELLOW BORDER.
- 3. FURNISH VEHICLE AND PEDESTRIAN SIGNALS WITH LIGHT EMITTING DIODE (LED) SIGNAL LAMP UNITS.
- 4. USE TYPE B (HIGH INTENSITY PRISMATIC) OR TYPE D (DIAMOND GRADE) RETROREFLECTIVE SHEETING FOR SIGNS MOUNTED UNDER OR ADJACENT TO THE SIGNAL HEADS.
- 5. FURNISH SYMBOL TYPE PEDESTRIAN COUNTDOWN SIGNALS. INSTALL USING MOUNTING HEIGHT IN ACCORDANCE WITH THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL
- 6. FURNISH MATERIALS NECESSARY TO INSTALL ACCESSIBLE PEDESTRIAN SIGNAL UNITS AND SIGNS AS SHOWN IN THE PLANS. INSTALL AT 3 FT. 6 IN. TO 4 FT. 0 IN. ABOVE THE SIDEWALK OR CONCRETE WALKWAY.
- 7. ROUTE CABLE FOR LUMINAIRES (#12/4C TRAY CABLE) TO THE SERVICE ENCLOSURE. SEE ELECTRICAL DETAIL SHEETS. DO NOT PASS LUMINAIRE CONDUCTORS THROUGH THE SIGNAL CONTROLLER CABINET
- 8. FURNISH AND INSTALL FULL-ACTUATED CONTROLLER WITH INTERNAL TIME BASE COORDINATION UNIT IN A CABINET, MOUNTED ON AN 18-INCH BASE EXTENSION.
- 9. FURNISH ALL MATERIALS. SUPPLY THE CONTROLLER WITH DETECTION PHASE SEQUENCE, DETECTOR UNITS, DETECTOR CARDS, DETECTOR CARD RACK, AND POWER SUPPLY, TO THE DEPARTMENT'S SIGNAL SHOP, 6810 KATY ROAD, HOUSTON, TEXAS FORTY FIVE (45) DAYS IN ADVANCE FOR INSPECTION, SET UP, AND TESTING. CONTACT MR. MICHAEL AWA, P. E., IN WRITING, AT LEAST FIFTEEN (15) WORKING DAYS PRIOR TO PICKING UP THE MATERIALS.

  ADDRESS: TEXAS DEPARTMENT OF TRANSPORTATION
  - P.O. BOX 1386
  - HOUSTON, TEXAS 77251-1386
  - TEL. NO. (713) 802-5661
- 10. THE DEPARTMENT'S TRAFFIC SIGNAL MAINTENANCE OFFICE WILL PROVIDE PHASING FOR TEMPORARY AND PERMANENT TRAFFIC SIGNALS. THE CONTRACTOR WILL PROVIDE TIMING.
- 11. LOCATE CABINET(S), STEEL SIGNAL POLES, SIGNAL DETECTORS, ETC., AS APPROVED.
- 12. REPAIR OR REPLACE PAVEMENT AND SIDEWALKS DAMAGED BY THE CONTRACTOR'S FORCES DURING CONSTRUCTION AT NO COST TO THE DEPARTMENT.
- 13. ASSUME OWNERSHIP OF THE REMOVED EXISTING SIGNS.
- 14. SEAL ENDS OF ALL CONDUITS WITH DUCT SEAL, EXPANDABLE FOAM, OR BY OTHER METHODS APPROVED BY THE ENGINEER. SEAL CONDUIT
  IMMEDIATELY AFTER COMPLETION OF CONDUCTOR INSTALLATION AND PULL TESTS. DO NOT USE DUCT TAPE AS PERMANENT CONDUIT SEALANT. DO NOT USE SILICON CAULK AS A CONDUIT SEALANT.
- 15. CAP SPARE CONDUITS INSTALLED IN POLE FOUNDATIONS AND GROUND BOXES USING APPROVED CAPPING DEVICES.
- 16. DO NOT PLACE SIGNAL HEADS OVER THE ROADWAY UNTIL ALL NECESSARY MATERIALS ARE ON HAND AS APPROVED.
- 17. INSTALL TWO SET SCREWS ON ALL VEHICLE SIGNAL HEAD MOUNTING HARDWARE FITTINGS.
- 18. INSTALL A 5/8-IN. (MINIMUM) EYE BOLT FOR THE POINT OF ATTACHMENT BELOW THE SERVICE ENTRANCE WEATHERHEAD FOR THE SERVICE DROP TO STEEL OR WOOD POLE.
- 19. AIM LUMINAIRE ARMS MOUNTED ON TRAFFIC SIGNAL POLES PERPENDICULAR TO THE CENTERLINE OF THE ROADWAY IT IS INTENDED TO COVER, TO DEVELOP THE PROPER ILLUMINATION PATTERN FOR THE INTERSECTION.
- 20. PROVIDE 250 WATT HPS (HIGH PRESSURE SODIUM) EQUIVALENT LIGHT EMITTING DIODE (LED) LUMINAIRES OPERATING AT 240 VOLTS.
- 21. WRAP SIGNAL HEADS WITH DARK PLASTIC OR SUITABLE MATERIAL TO CONCEAL THE SIGNAL FACES FROM THE TIME OF INSTALLATION UNTIL PLACING INTO OPERATION.
- 22. GROUND STEEL MAST ARM POLE ASSEMBLIES IN ACCORDANCE WITH REQUIREMENTS SHOWN ON THE LATEST TRAFFIC SIGNAL POLE FOUNDATION STANDARD. USE THE GROUNDING LUG ON THE POLE TO GROUND THE POLE TO THE GROUND CONDUCTORS FROM THE CONDUITS.
- 23. VERIFY THE CORRECT MAST ARM POLE LENGTHS FOR EACH SIGNALIZED INTERSECTION PRIOR TO ORDERING THE EQUIPMENT.
- 24. INSTALL A CLOSE NIPPLE WITH LOCK NUT AND BUSHING (SIZE AS REQUIRED) WHERE THE CABLE ENTERS THE UPPER PORTION OF THE SIGNAL POLE.
- 25. REFER TO TXDOT'S WEBSITE FOR PREQUALIFIED PRODUCTS LIST REGARDING RADAR DETECTORS, VEHICLE LED TRAFFIC SIGNAL LAMP UNIT, SYMBOLIC PEDESTRIAN SIGNAL HEAD, SYMBOLIC PEDESTRIAN SIGNAL LAMP, ACCESSIBLE PEDESTRIAN SIGNALS, SIGNAL CONTROLLERS, SIGNAL CABINETS, BUS INTERFACE UNITS, BATTERY BACKUP UNITS. CHECK WEBSITE PERIODICALLY FOR CURRENT UPDATES.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR THE SIGNAL CARRYING CAPABILITY AND PERFORMANCE OF THE CABLE. INSTALL EACH WIRE WITH A LIGHTNING PROTECTION DEVICE UNLESS OTHERWISE NOTED.
- 27. CONTRACTOR TO ADJUST SIGNAL HEAD ALIGNMENT, AS NEEDED, USING ARTICULATING SIGNAL BRACKET ASSEMBLIES WITH A MINIMUM OF THREE ADJUSTABLE AXES.
- 28. THE CONTRACTOR TO FURNISH AND INSTALL ALL EQUIPMENT CALLED FOR AND REQUIRED AS NEEDED FOR A FULLY OPERATIONAL TRAFFIC SIGNAL.
- 29. THE VENDORS' REPRESENTATIVES OF THE RADAR EQUIPMENT SUPPLIED FOR THIS PROJECT MUST SUPERVISE THE INSTALLATION, SETUP AND TESTING OF THIS EQUIPMENT AND BE FACTORY CERTIFIED. THE REPRESENTATIVE MUST BE ON SITE DURING THIS TIME. ANY EQUIPMENT REQUIRED FOR SETUP AND OPERATION OF THE RADAR DEVICES MUST BE PROVIDED TO TXDOT OR THE CITY UPON COMPLETION. THE VENDORS' REPRESENTATIVE MUST PROVIDE TRAINING TO THE MUNICIPALITIES WHO WILL BE RESPONSIBLES FOR THE MAINTENANCE OF THE RADAR EQUIPMENT AFTER ACCEPTANCE OF THE PROJECT.
- 30. THE RADAR PRESENCE DETECTOR AND RADAR ADVANCE DETECTION DEVICES MUST BE COMPATIBLE WITH EACH OTHER AND FROM THE SAME MANUFACTURER.
- 31. RADAR PRESENCE DETECTION DEVICE MUST UTILIZE TRUE-PRESENCE DETECTION. SYSTEM USING LOCKING ALGORITHMS TO ATTEMPT PRESENCE DETECTION WILL NOT BE ACCEPTED.
- 32. RADAR ADVANCE DETECTION DEVICE MUST CONTINUOUSLY TRACK VEHICLE SPEED, DISTANCE, AND ESTIMATED TIME OF ARRIVAL.
- 33. COMMUNICATION AND POWER TO THE RADAR DEVICES SHALL BE VIA CONTINUOUS CABLE RUN OF UP TO 1000 FEET WITH THE USE OF REPEATERS.
- 34. THE FINAL PLACEMENT OF RADAR DEVICES TO BE APPROVED BY ENGINEER.
- 35. THE LOCATION OF THE RADAR DETECTION ZONE IS APPROXIMATE. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER AND/OR DEPARTMENT'S TRAFFIC OPERATIONS SECTION.
- 36. INSTALL A CONCRETE WALKWAY FROM THE END OF THE CURB RAMP OR EDGE OF PAVEMENT TO THE TRAFFIC SIGNAL POLE FOUNDATION TO PROVIDE ACCESS TO THE PEDESTRIAN PUSH BUTTON(S). PERFORM THIS WORK IN ACCORDANCE WITH ITEM 531, "SIDEWALKS".
- 37. FOR FLASHING BEACON SIGNAL ONLY, INSTALL SIGNALS WITH ALTERNATELY FLASHING RED AND YELLOW 12 IN. LENS.



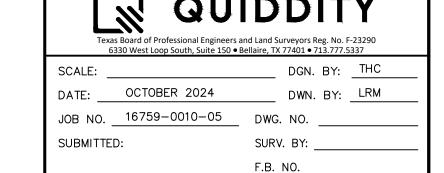


ASHTON GRAY DEVELOPMENT BRAZORIA COUNTY, TEXAS

FM 521 TURN LANES

FM 521

PLAN LAYOUT NOTES

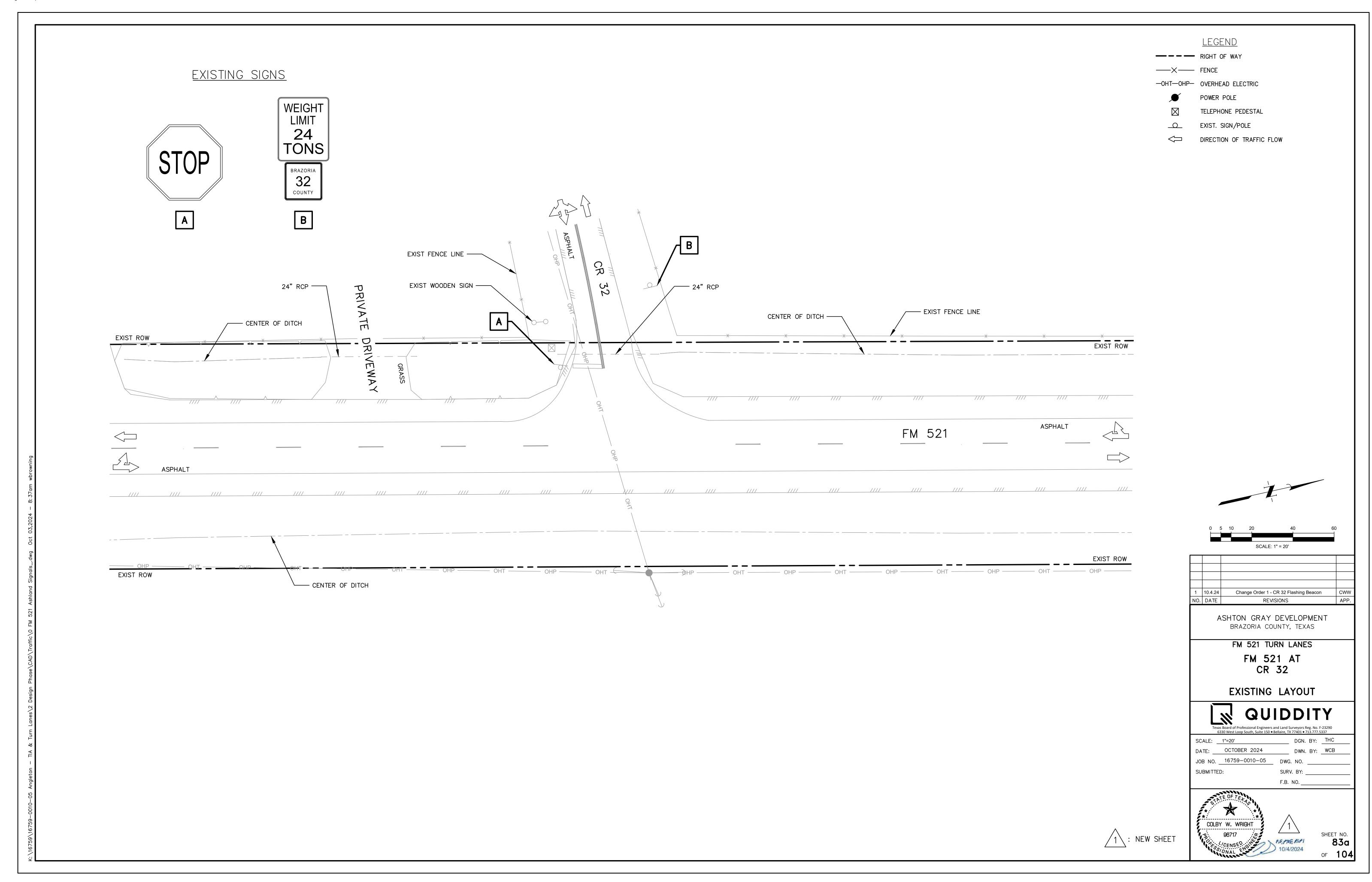


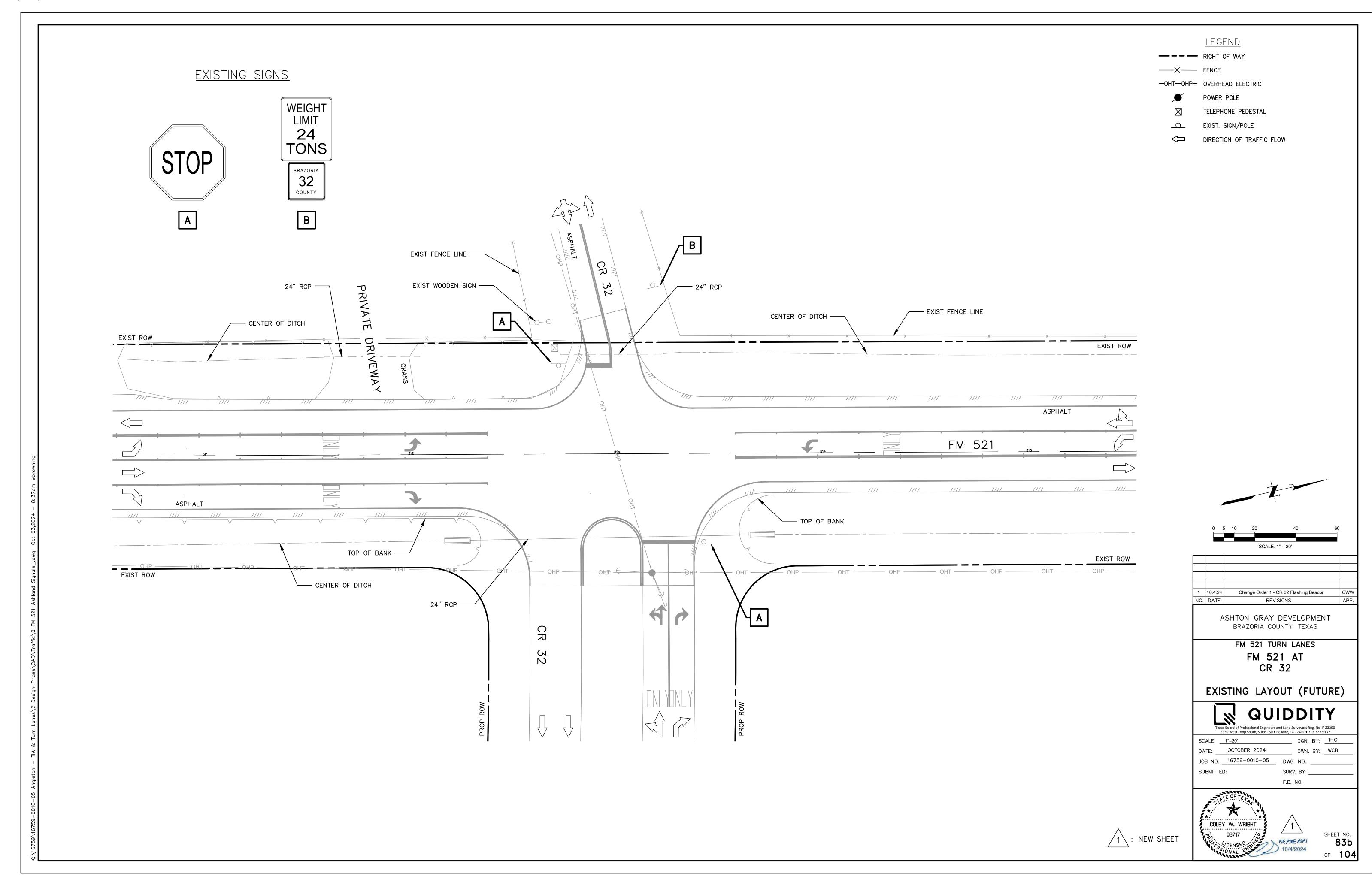


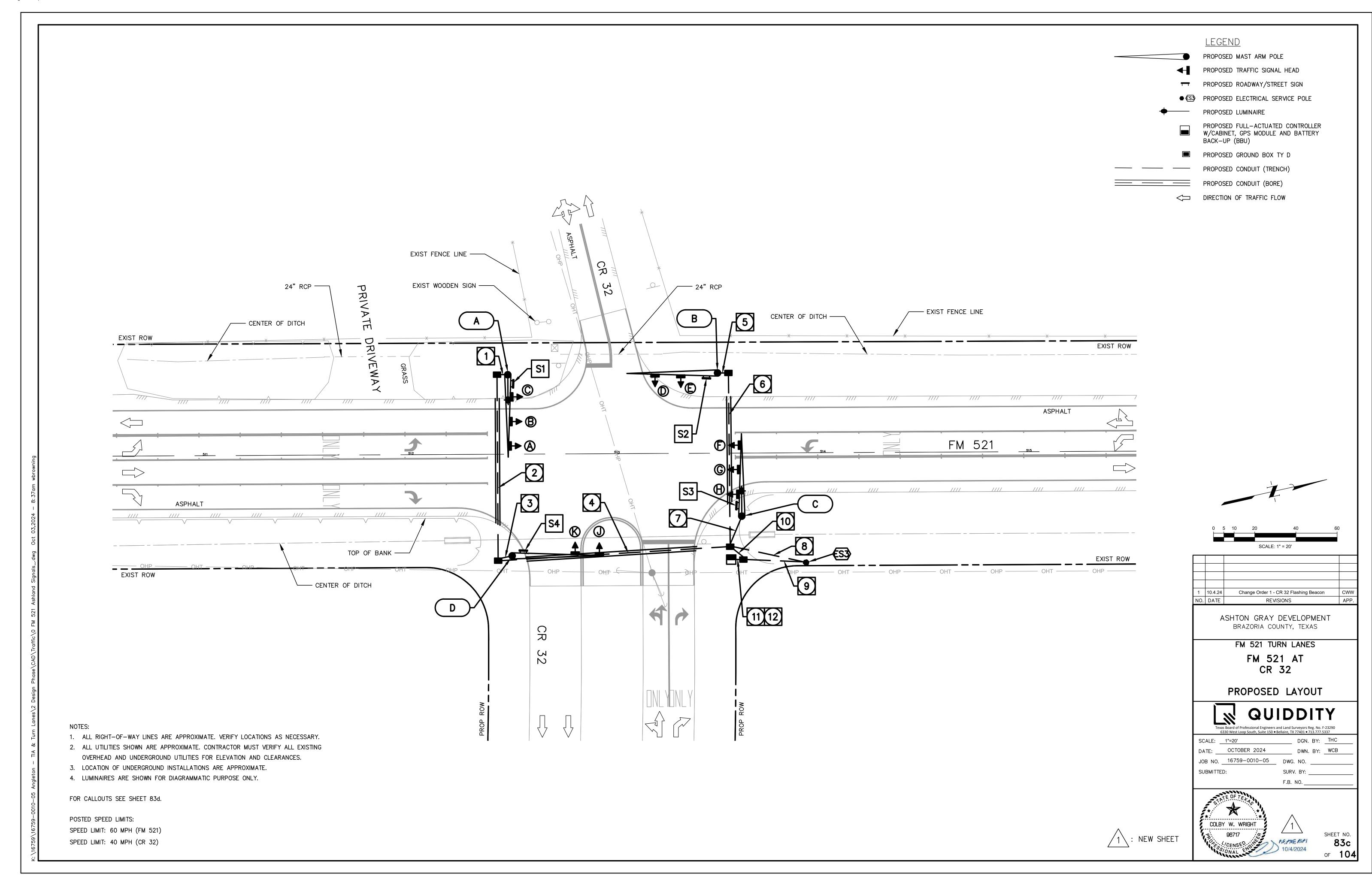
1 10/4/2024

of **10** 

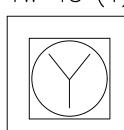
SHEET NO. **73** 



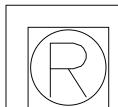




1W-1S(Y)



1W-1S (R)



SIGNALS A, B, C, F, G, H

SIGNALS D, E, J, K

	CONDUIT AND CONDUCTOR RUNS															
	CONDUIT (618)						CONDUCTORS (620)							Y CABLE		GNALS
				PVC			P	OWER		GRO	IIND			621) /INAIRE		(684) GNAL
RUN								#4						4C TRAY		
NO.	2" (S	SCHD 80)		3" (SC	HD 80	))	INS	ULATED	#4	BARE	#8	BARE	_	ABLE	#:	12/7C
	((	6046)	( (	6053)	(6	6054)	(6	6012)	(6	6011)	(6	5007)	( 6	6005)	(	6012)
	NO.	TRENCH	NO.	TRENCH	NO.	BORE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF
1	1	10		:							1	10	1	10	2	10
2			1	35	1	65					1	100	1	100	2	100
3	1	15									1	15			1	15
4			1	40	1	90					1	130	1	130	3	130
5	1	10									1	10			1	10
6			1	40	1	55					1	95			1	95
7	1	20				<del>-</del>		: :			1	20	1	20	2	20
8			1	55						:	1	55	2	55		
9	1	50					2	50	1	50						
10			1	15							1	15			6	15
11	1	10			-		2	10		10						
12			1	10							1	10			6	10
POLE A	<del></del>												1	30	2	20
POLE B														20	1	20
POLE C	***************************************								•••••				1	30	2	20
POLE D															1	20
MA											:				2	35 30
MB MC															2	35
MD															1	45
TOTAL		115		195		210		120		60		460		430		1255

# PROPOSED SIGNS

 $|4.9 \leftarrow 12.9 \rightarrow 6 \rightarrow 11.3 \rightarrow 4.9|$ 

1.5" Radius, 0.5" Border, White on Green; "CR 32", ClearviewHwy-3-W;

4.5 6.7 - 15.6 - 4.5

1.5" Radius, 0.5" Border, White on Green; "FM 521", ClearviewHwy-3-W;

S1, S3

S2, S4

TRAFFIC SIGNAL POLE LEGEND

PROP. 40' MAST ARM POLE W/ LUMINAIRE

PROP. 44' MAST ARM POLE

PROP. 40' MAST ARM POLE W/ LUMINAIRE

PROP. 44' MAST ARM POLE

PROP. SERVICE POLE TY D WITH METER AND (120/240 VOLT SERVICE). SERVICE ENCLOSURE AND SERVICE DISCONNECT.

$\wedge$		
/1\:	NEW	SHEET

Change Order 1 - CR 32 Flashing Beacon NO. DATE

> ASHTON GRAY DEVELOPMENT BRAZORIA COUNTY, TEXAS

> > FM 521 TURN LANES FM 521 AT CR 32

PROPOSED LAYOUT



SCALE: _		DGN. BY: THC
DATE:	OCTOBER 2024	DWN. BY: WCB
JOB NO.	16759-0010-05	DWG. NO.
SUBMITTE	D:	SURV. BY:
		F.B. NO.



83d

	ELECTRICAL SERVICE DATA											
ELECTRICAL	POLE NO.	ELECTRICAL SERVICE	SERVICE CONDUIT	SERVICE CONDUCTOR	SAFETY SWITCH	MAIN DISCONNECT	TWO-POLE CONTACTOR	PANEL BD./ LOAD CENTER	CIRCUIT	BRANCH CIRCUIT	BRANCH CKT. BRK.	KVA
SERVICE NAME	CALLOUT	DESCRIPTION (SEE ED	SIZE			CKT. BRK.		AMP RATING	NO.			LOAD
IVAIVIE		(5, 6, 7, 8) - 14	(RMC)	NO./SIZE	AMPS	POLE/AMP	AMPS	(MIN)		AMPS	POLE/AMPS	
FM 521 AT CR 32	ES3	ELEC SERV TY D(120/240) 060 (NS)SS(E)SP(O)	1 - 1/4"	3 / #6	10	2P / 60	30	100	SIGNAL	40	1P / 50	<5.5
TIVI JZI AT CR JZ		LLLC 3LIV 11 D(120/240/000 (143/33(L)31 (O)	1-1/4 3/#0		10	21 / 00	30	100	LUMINAIRE	3	2P / 20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Arm		ROUND	POLES				POLYG	ONAL POL	ES		
Length	D <sub>B</sub>	D <sub>19</sub>	D <sub>24</sub>	D 30	1) thk	D <sub>B</sub>	D <sub>19</sub>	D <sub>24</sub>	D 30	1) thk	Foundation Type
ft.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	1,700
20	12.0	9.3	8.6	7.8	. 239	12.5	9.5	8.7	7.8	. 239	36-A
24	12.0	9.3	8.6	7.8	. 239	13.0	10.0	9.2	8.3	. 239	36-A
28	12.0	9.3	8.6	7.8	. 239	13.5	10.5	9.7	8.8	. 239	36-A
32	13.0	10.3	9.6	8.8	. 239	14.0	11.0	10.2	9.3	. 239	36-A
36	13.5	10.8	10.1	9.3	. 239	15.0	12.0	11.2	10.3	. 239	36-A
40	14.0	11.3	10.6	9.8	. 239	16.0	13.0	12.2	11.3	. 239	36-B
44	14.5	11.8	11.1	10.3	. 239	16.5	13.5	12.7	11.8	. 239	36-B

Arm		ROUND	ARMS				POLYG	ONAL ARM	S	
Length	L <sub>1</sub>	D <sub>1</sub>	D <sub>2</sub>	1) thk	Rise	L <sub>1</sub>	D <sub>1</sub>	② D <sub>2</sub>	1 thk	Rise
ft.	ft.	in.	in.	in.	NTSC	ft.	in.	in.	in.	
20	19.1	8.0	5.3	.179	1'-8"	19.1	8.0	3.5	.179	1'-7"
24	23.1	9.0	5.8	.179	1'-9"	23.1	9.0	3.5	.179	1'-8"
28	27.1	9.5	5.7	.179	1'-10"	27.1	10.0	3.5	.179	1'-9"
32	31.0	9.5	5.2	. 239	1'-11"	31.0	9.5	3.5	. 239	1'-10"
36	35.0	10.0	5.1	. 239	2'-0"	35.0	10.0	3.5	. 239	1'-11"
40	39.0	10.5	5.1	. 239	2'-3"	39.0	11.0	3.5	. 239	2'-1"
44	43.0	11.0	5.1	. 239	2'-8"	43.0	11.5	4.0	. 239	2'-3"

 $D_B$  = Pole Base O.D.

 $D_{19}$  = Pole Top O.D. with no Luminaire and no ILSN

 $D_2$  = Arm End O.D.  $L_1$  = Shaft Length L = Nominal Arm Length

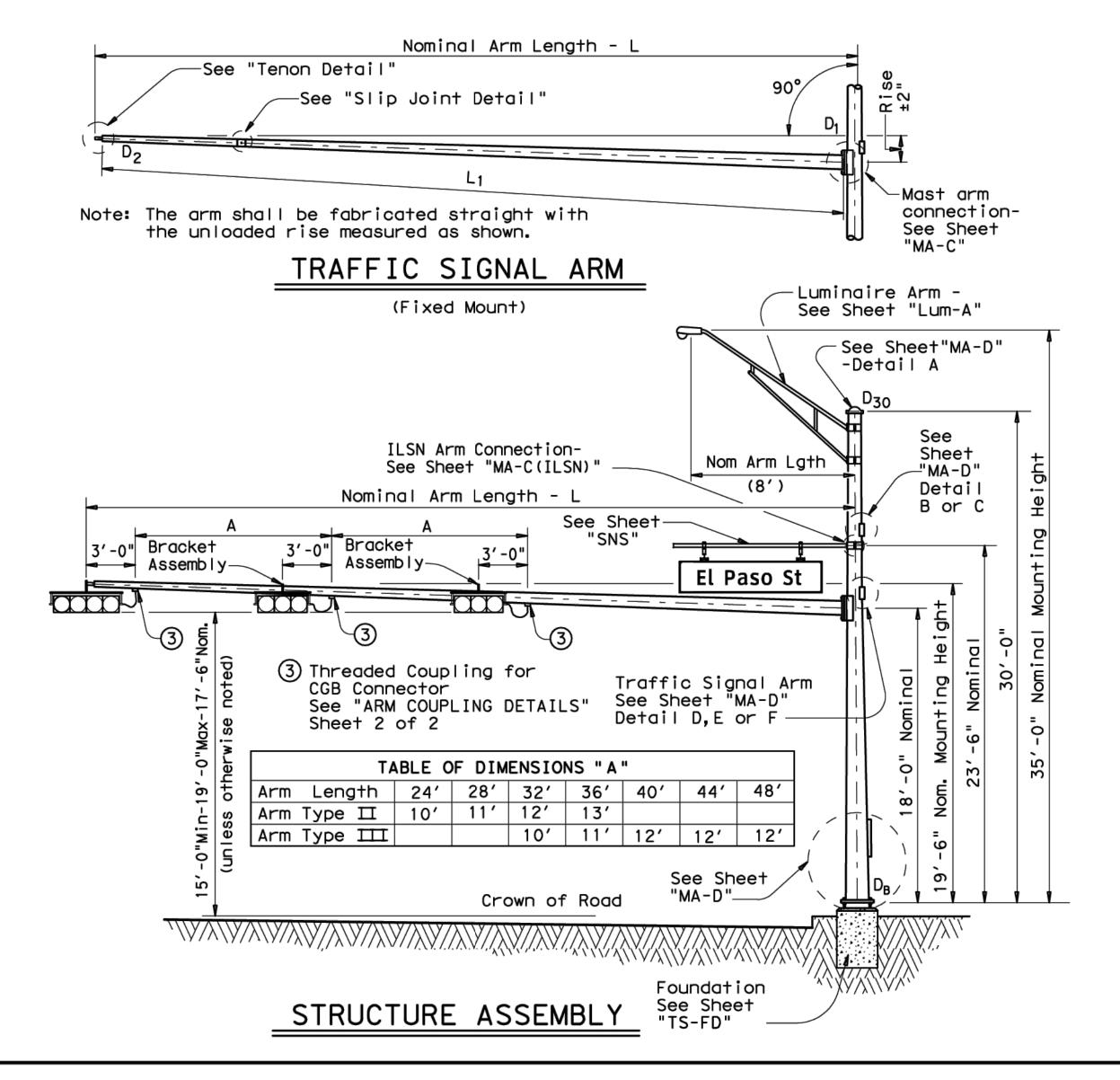
D<sub>24</sub> = Pole Top O.D. with ILSN

w/out Luminaire

D<sub>30</sub> = Pole Top O.D. with Luminaire D<sub>1</sub> = Arm Base O.D.

(1) Thickness shown are minimums, thicker materials may be used.

 $\bigcirc$  D<sub>2</sub> may be increased by up to 1" for polygonal arms.



# SHIPPING PARTS LIST

Ship each pole with the following attached: enlarged hand hole, pole cap, fixed-arm connection bolts and washers and any additional hardware listed in the table.

	30' Poles Wi	th Luminaire	24' Poles W	ith ILSN	19' Poles With No Luminaire and No ILSN			
Nominal Arm		re plus: One LSN attached)	Above h	ardware				
Leng†h		ole, clamp-on	plus one hand ho		See note above			
f†	Designation	Quantity	Designation	Quantity	Designation	Quantity		
20	20L-100		205-100		20-100			
24	24L-100		245-100		24-100			
28	28L-100		285-100	285-100				
32	32L-100		325-100		32-100			
36	36L-100	2 ^	36S-100		36-100			
40	40L-100	{2} /1	405-100		40-100	~~		
44	44L-100	2	445-100		44-100	{ 4 }		

Traffic Signal Arms (1 per pole)

Ship each arm with the listed equipment attached

			-		•	*	
	Type I Arm (	(1 Signal)	Type II Arm	(2 Signals)	Type III Arm	(3 Signals)	
Nominal Arm Length	1 CGB cor	nnector	1 Bracket and 2 CGB		2 Bracket Assemblies and 3 CGB Connectors		
ft	Designation	Quantity	Designation	Quantity	Designation	Quantity	
20	20I-100						
24	24I-100		24II-100				
28	28I-100		28II-100				
32			32II-100		32III-100		
36			36Ⅲ-100	2	36III-100	$\sim$	
40					40III-100	{ 2 }	
44					44III-100	<b>}6</b> }	
	·	_	•	·	•	$\sim$	

Luminaire Arms (1 per 30' pole)

Nominal Arm Length	Quantity	
8' Arm	<b>{6</b> }	/ <sub>1</sub> \
	$\sim$	<u>                                     </u>

ILSN Arm (Max. 2 per pole) Ship with clamps, bolts and washers

Nor	ninal Arm Length	Quantity	
7′	Arm		
9′	Arm		

Anchor Bolt Assemblies (1 per pole)

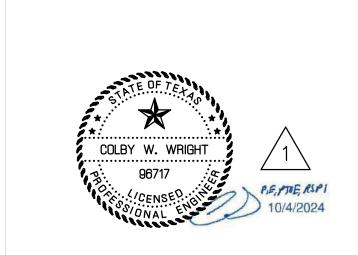
Anchor Bolt Diameter	Anchor Bolt Length	Quantity
1 1/2 "	3'-4"	
1 3/4"	3'-10"	2
2"	4'-3"	(8)

Each anchor bolt assembly consists of the following: Top and Bottom templates, 4 anchor bolts, 8 nuts, 8 flat washers, and 4 nut anchor devices (Type 2) per Standard Drawing "TS-FD".

Templates may be removed for shipment.



SHEET 1 OF 2



Texas Department of Transportation Traffic Operations Division TRAFFIC SIGNAL SUPPORT STRUCTURES

SINGLE MAST ARM ASSEMBLY

(100 MPH WIND ZONE)

SMA-100(1)-12

				Г
1	10.4.24	Change Order 1 - CR 32 Flashing Beacon	CWW	
NO	DATE	REVISIONS	ΔPP	i

×DOT	August	1995	D
R	EVISIONS		
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CK: JSY DW: MMF CONT SECT HIGHWAY JOB 16759-0010-05 FM 521 DIST COUNTY SHEET NO. НОО BRAZORIA 101

1-12

	FOUNDATION DESIGN TABLE													
FDN	DRILLED		FORCING STEEL	EMBEDDE LENGT	D DRILLE H-f†(4),	D SHAFT (5), (6)		HOR BO	LT DES	IGN	FOUNDA DESI	TION		1
TYPE	SHAFT DIA	VERT BARS	SPIRAL & PITCH	TEXAS CO	ONE PENE blows/f	TROMETER 1 40	ANCHOR BOLT DIA	Fy (ksi)	BOLT CIR DIA	ANCHOR TYPE	MOMENT	SHEAR Kips	TYPICAL APPLICATION	
24-A	24"	4-#5	#2 at 12"	5. 7	5.3	4.5	₹4 "	36	12 ¾"	1	10	<del>-</del>	Pedestal pole, pedestal mounted controller.	1
30-A	30"	8- #9	#3 at 6"	11.3	10.3	8.0	1 ½"	55	17"	2	87	3	Mast arm assembly. (see Selection Table)	
36-A	36"	10-#9	#3 at 6"	13.2	12.0	9.4	1 ¾"	55	19"	2	131	5	Mast arm assembly. (see Selection Table) 30' strain pole with or without luminaire	} <b></b>
36-B	36"	12-#9	#3 at 6"	15.2	13.6	10.4	2"	55	21"	2	190	7	Mast arm assembly. (see Selection Table) Strain pole taller than 30' & strain pole with mast arm	
42-A	42"	14- #9	#3 at 6"	17.4	15.6	11.9	2 1/4"	55	23"	2	271	9	Mast arm assembly. (see Selection Table)	]

	FOUNDATION SELE	ECTION TABL	E FOR STAND ASSEMBLIES	ARD MAST		Traffic Signal Pol
		FDN 30-A	FDN 36-A	FDN 36-B	FDN 42-A	
z	MAX SINGLE ARM LENGTH	32′	48′			
80 MPH DESIGN WIND SPEED		24' X 24'				
)ES	MAXIMUM DOUBLE ARM LENGTH COMBINATIONS	28' X 28'				H dia think the second
H S		32' X 28'	32' X 32'			
₽ S			36, x 36,			
8≥			40' X 36'			
•			44' X 28'	44' X 36'		
z	MAX SINGLE ARM LENGTH		36'	44'		
5			24' X 24'			
			28' X 28'			
OO MPH DESIGN WIND SPEED	MAXIMUM DOUBLE ARM		32' X 24'	32' X 32'		
물물	LENGTH COMBINATIONS			36' X 36'		Use average N value ov
o ¥				40' x24'	40' X 36'	the top third of the

Traffic Signal Pole—  $\triangle$ 

embedded shaft.

NOTES: (1) Anchor bolt design develops the foundation capacity given under

- Foundation Design Loads. 2 Foundation Design Loads are the
- allowable moments and shears at the base of the structure.
- 3 Foundations may be listed separately or grouped according to similarity of location and type. Quantities are for the Contractor's information only.
- 4 Field Penetrometer readings at a depth of approximately 3 to 5 feet may be used to adjust shaft lengths.
- (5) If rock is encountered, the Drilled Shaft shall extend a minimum of two diameters into solid rock.
- (6) Decimal lengths in Design Table are to allow interpolation for other penetrometer values. Round to nearest foot for entry into Summary Table.

Bolt Circle Diometer

ANCHOR BOLT & TEMPLATE SIZES								
BOLT DIA IN.	7 BOLT LENGTH	TOP THREAD	BOTTOM THREAD	BOLT CIRCLE	R2	Rı		
¾"	1'-6"	3"		12 ¾"	7 1/8"	5 % "		
1 1/2 "	3′ -4"	6"	4"	17"	10"	7"		
1 ¾"	3'-10"	7"	4 1/2"	19"	11 ¼"	7 ¾"		
2"	4′-3"	8"	5"	21"	12 ½"	8 ½"		
2 1/4"	4′-9"	9"	5 1/2"	23"	13 ¾"	9 1/4"		

7 Min dimensions given, longer bolts are acceptable.

## DRILLED SHAFT LENGTH 6 LOCATION FDN (FEET) BLOW **IDENTIFICATION** TYPE EA 24-A 30-A 36-A 36-B 42-A **CORAL HAVEN** 10 |36-B| 1 POLE A 15 10 36-B 15 POLE B 10 36-A 1 POLE C 13 SCHOOL DRIVE 10 | 36-B POLE A 15 10 36-B POLE B 15 10 | 36-A POLE C 13 CR 32 POLE A 15 POLE B 15 POLE C 15 POLE D 15 26 120 TOTAL DRILLED SHAFT LENGTHS

FOUNDATION SUMMARY TABLE 3

# GENERAL NOTES:

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals and interim revisions thereto.

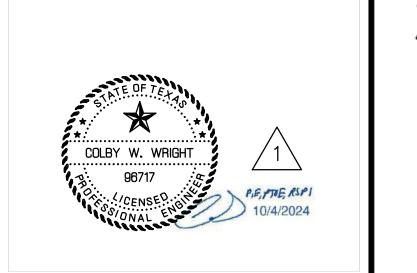
Reinforcing steel shall conform to Item 440. "Reinforcing Steel".

Concrete shall be Class "C".

Threads for anchor bolts and nuts shall be rolled or cut threads of 8UN series up to 2" in diameter or UNC series for all sizes. Bolts and nuts shall have Class 2A and 2B fit tolerances. Galvanized nuts shall be tapped after galvanizing.

Anchor bolts that are larger than 1" in diameter shall conform to "alloy steel" or "medium-strength mild steel" per Item 449, "Anchor Bolts". Anchor bolts that are I" in diameter or less shall conform to ASTM A36. Galvanize a minimum of the top end thread length plus 6" for all anchor bolts unless otherwise noted. Exposed washers and exposed nuts shall be galvanized. All galvanizing shall be in accordance with Item 445, "Galvanizing".

Templates and embedded nuts need not be galvanized. Lubricate and tighten anchor bolts when erecting the structure in accordance with Item 449, "Anchor Bolts".



TRAFFIC SIGNAL

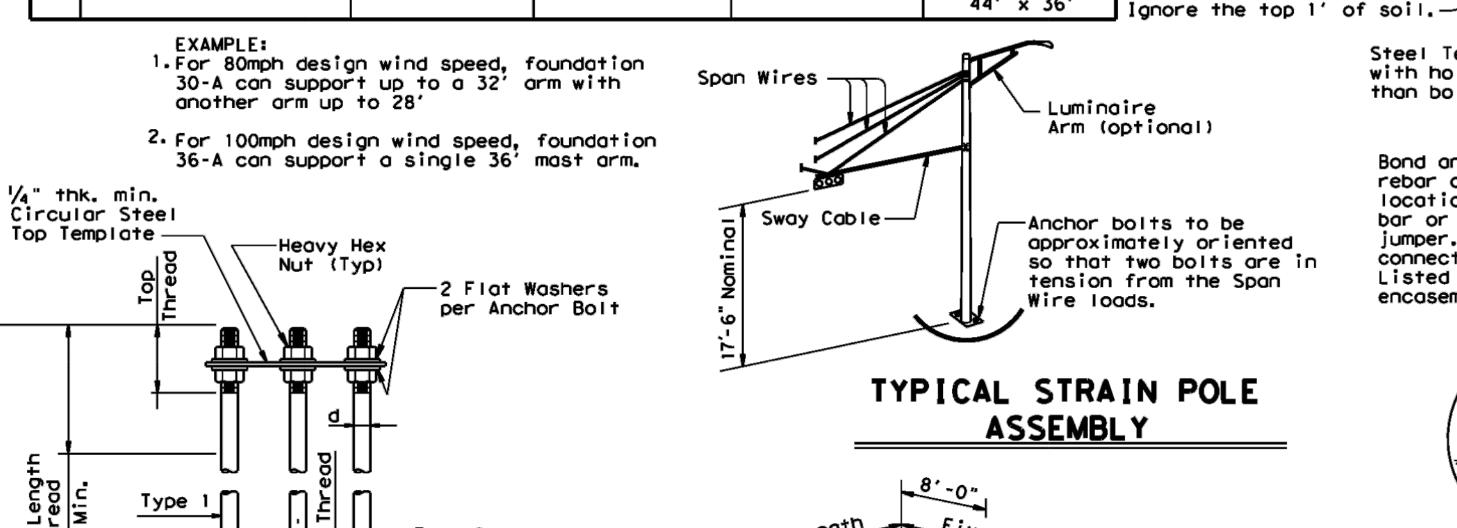
POLE FOUNDATION

Texas Department of Transportation

Traffic Operations Division

TS-FD-12

		© TxD0T August 1995	QN: MS		CK: JSY	DW: M	IAO/MMF	CK: JSY/TEB
		5-96 REVISIONS	CONT	SECT	108		нго	HWAY
		5-96 11-99 1-12			16759-0010-	-05	FM	521
Change Order 1 - CR 32 Flashing Beacon	CWW	1	DIST		COUNTY		\$	SHEET NO.
DEVICIONS	A D D				DD 470DL	^		104



-Type 2 -Thickness = d/4 (inch) min. √2 Sides (Typ)

NUT ANCHOR HOOKED ANCHOR (TYPE 2) (TYPE 1)

R=d—

1 ½" Min

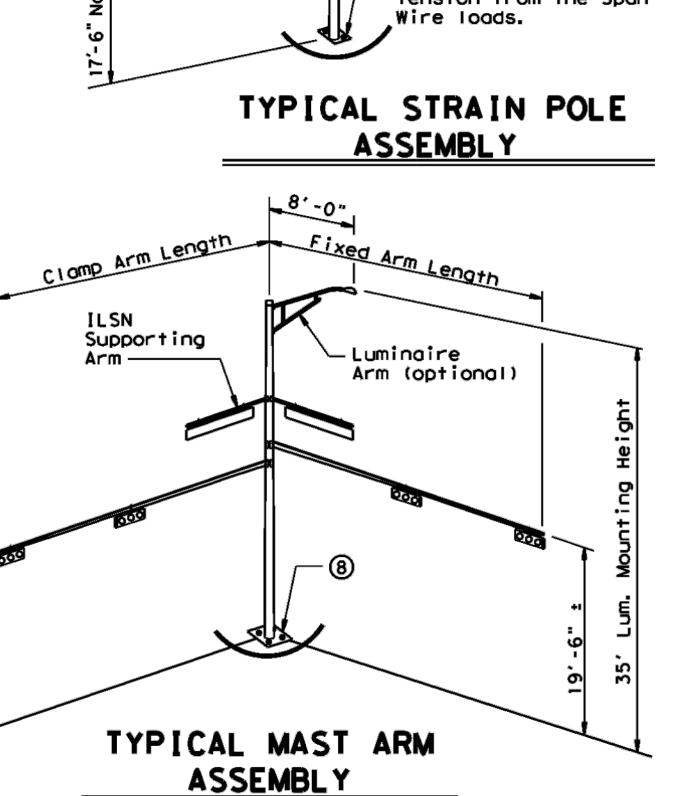
Circular Steel Bottom Template

(Omit bottom template

for FDN 24-A) -

ANCHOR BOLT ASSEMBLY

80rient anchor bolts orthogonal with the fixed arm direction to ensure that two bolts are in tension under dead load.



44' x 36'

TOP VIEW 1/4" to 1/2" of bolt shank shall project above concrete -Circular Steel Template (Temporary) Conduit (See Layout Sheets for diameter. Orient as directed by the Engineer. 1 or 2 required) Vertical Bars (See Design Table for size \_ Template & number). Spiral, 3 flat turns top & 1 flat turn

Conduit—

Steel Template

rebar cage, two

bar or #6 copper

encasement.

locations using #3

jumper. Mechanical

connectors shall be UL

Listed for concrete

with holes 1/16" greater

Bond anchor bolts to \_

than bolt diameter —

bottom. (See Design Table for size & pitch) Drilled O Shaft Dia

Vertical bars may rest on bottom of drilled hole if material is firm enough to do so when concrete is placed.

ELEVATION FOUNDATION DETAILS

1 10.4.24 NO. DATE

128

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