



**Hidalgo County
Planning
Department**

T.J. Arredondo, CFM
Director of Planning

Main Office

1304 S. 25th Street
Edinburg, Texas 78542
Phone (956) 318-2840
Fax (956) 318-2844

Engineering Projects Office

902 N. Doolittle Road
Edinburg, Texas 78542
Phone (956) 292-7080
Fax (956) 292-7089

Precinct No. 1 Substation

1902 Joe Stephens Ave.
Weslaco, Texas 78596
Phone (956) 968-4734
Fax (956) 973-7850

Precinct No. 3 Substation

2401 N. Moorefield Road
Mission, Texas 78572
Phone (956) 205-7045
Fax (956) 205-7049

PIPELINE AND UTILITY PERMIT APPLICATION PACKET

THE STATE OF TEXAS

COUNTY OF HIDALGO

**APPLICATION AND AGREEMENT FOR PIPELINE OR
UTILITY PERMIT**

Date: 8/27/2018

Magic Valley Pipeline (hereinafter referred to as "Applicant") does hereby make application to the Hidalgo County through the Hidalgo County Planning Department (hereinafter referred to as "HCPD") to construct, maintain and repair pipelines or utilities across the easements, right-of-ways, property or property interest as described below.

Information required:

1. Name and Address of Applicant:

Magic Valley Pipeline, L.P.

60 River Road, Rio Vista, CA 94571

2. Name and Address of company or agency owning Pipeline or Utility (please indicate if same as Applicant):

Same

3. Name and Address of operator of Pipeline or Utility (please indicate if same as Applicant):

Same

4. Name and Address of contractor to install Pipeline or Utility:

TBD



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5. Estimated date of installation of Pipeline or Utility:

Start work October 1, 2018

6. Location of Pipelines or Utilities (Tract No., Survey, Abstract No.):

Juan Jose Balli Survey, Abstract No. 290

7. Hidalgo County road right-of-way, property or property interest to be crossed:

11 Mile Road and Hoehn Road

8. Names and Addresses of fee owners of property involved and copy of Pipeline or Utility easements acquired:

Hildago County Precinct No. 4

9. Number and size of lines:

One 16" gas pipeline



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10. Pressure (each line):

maximum pressure is 1050 psig

11. Content (each line):

Natural gas

12. Is this a common carrier pipeline or utility? If yes, please submit the Applicant's Texas Railroad Commission Form "T-4" or similar form designating the facility:

Utility

13. Does Applicant have the Power of Eminent Domain?

No

14. Will the product be carried for hire or by the owner of the goods?

Owner

15. Where is the origin of the line?

Gilmore Gas Plant, 33730 W. FM 681m Edinburg, TX 78541

16. Where is the destination of the line?

Magic Valley power plant, 3333 N. McColl Rd, Edinburg, TX

17. Utility Crossing Coordinate X: _____ Y: _____

(NAD 83 Texas South FIPS 4205 feet)

Hoehn Road: X: 1078481.58, Y: 16656271.59

11 Mile Road: X: 1078448.36 Y: 16656288.69



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If requested permit is granted by HCPD, Applicant, in consideration thereof, agrees and binds itself as follows:

1. All pipelines or utilities herein will be horizontally placed within the right-of-way as determined by HCPD and at a minimum depth of five (5) feet below natural ground. Depth, horizontal, and vertical location shall be confirmed by HCPD Inspectors.
2. Location map, profile, and plans concerning the proposed pipeline or utility crossing will furnished with this application.
3. HCPD will be notified in writing ten days prior to the beginning date of construction under this permit.
4. Applicant will bear the entire expense of all future relocations of any pipelines or utilities should such relocation, at the sole discretion of the Hidalgo County Commissioners Court, be necessary for improvements, alteration, or maintenance of the Hidalgo County's easement or property of interest.
5. Applicant will notify the HCPD at least 48 hours prior to covering work and or completion of its work and removal of its equipment from the job site to permit HCPD to make an inspection.
6. Upon notification by the HCPD, the Applicant will promptly repair or rectify any deficiency or condition caused by the Applicant's operations or installations under this permit. Applicant will leave easement in as near the same condition or better, in the HCPD's sole judgment, as it existed prior to the commencement of the operations under this permit.



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- Hidalgo County shall not be liable or responsible for, and shall be saved and held harmless by Applicant, and further shall be indemnified by Applicant, from and against any and all suits, actions, losses, damages, claims, or liability of any character, type, or description, including all expenses of litigation, court costs, attorney's fees, and engineering fees for injury or death to any person, or injury to any property, received or sustained by any person or persons or property, arising out of, or occasioned by, directly or indirectly, the performance of Applicant under this agreement, including claims and damages arising in part from the negligence of the Hidalgo County.

It is the expressed intent of the parties to this agreement that the indemnity provided for in this section is extended by Applicant to indemnify and protect Hidalgo County from the consequences of Hidalgo County's own negligence, whether that negligence is the sole or contributory cause of the resultant injury death, or damage.

Applicant further agrees to defend, at its own expense, with attorneys acceptable to Hidalgo County and on behalf of the Hidalgo County, and in the name of Hidalgo County, any claim or litigation brought against the Hidalgo County in connection with any such injury, death or damage.

Before construction is begun on such pipeline or utility crossings, Applicant will furnish to the HCPD a certificate of insurance (or other security approved by the HCPD) payable to Hidalgo County and protecting Hidalgo County (as an additional named insured) against any claims for personal injuries or damages to property resulting from the operations of Applicant, its agents, servants, employees, and contractors under this permit. Insurance is to be supplied in accordance with the attached Schedule A.

- Hidalgo County makes no warranties, expressed or implied, in the granting of this permit; nor does Hidalgo County purport to grant any property interest or exclusive privileges whatsoever by granting such permit. It is specifically understood that Hidalgo County is not the agent for, nor does it act for, the fee owners or any persons or entities having any right, or title to possession of the land upon which the Hidalgo County's easement or other property interest is located. Furthermore, in granting this permit Hidalgo County makes no representation or warranty that it has any property interest, including, but not limited to, an easement or right of way, in the land



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upon which Applicant constructs, maintains, repairs, or modifies the pipelines or utilities, made the subject of this application, nor does Hidalgo County make any representation or warranty as to the validity, quality or extent of such property interest, if any. Applicant acknowledges its understanding that Hidalgo County in granting this permit, does not convey or grant to Applicant any rights, title or interest for which it has no legal authority to grant or convey.

9. Applicant binds itself to comply with all federal, state, and local laws or regulations and will obtain all necessary permits from all local and federal agencies required by law before installation or construction is begun.
10. Applicant will install its pipelines and utilities in a manner and location as shown in the plans and specifications filed with HCPD in support of this application for permit. Hidalgo County Planning Department's representative may at any time make such inspection as such engineer or other representation may deem necessary to assure that the construction of the pipeline or utilities is in accordance with the plans and specifications submitted, and said engineer or representative shall have the right to temporarily suspend Applicant's work if necessary, while such inspection is being made. Should Applicant not install the pipelines or utilities in accordance with the terms and conditions of this permit, Applicant agrees that the Hidalgo County shall have the right to require, at Applicant's expense, the removal of the pipelines and utilities and its replacement in conformance to said plans and specifications and conditions of this permit. Hidalgo County may revoke this permit and suspend all work hereunder if it is determined by Hidalgo County that the pipelines or utilities are not being installed in accordance with such plans and specifications and conditions of this permit. The suspension or revocation of this permit shall not be a basis for a claim for damages against Hidalgo County.
11. Except in emergency situations where it is necessary to protect life and property, Applicant will not make any change, modification, or alteration in or to the pipelines or utilities without first securing a new or amended permit from Hidalgo County prior to the making of any such change. Applicant will maintain the pipelines or utilities hereby authorized in good and safe condition, and in accordance with plans, specifications, and this permit.



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12. Applicant agrees to pay HCPD a permit fee to cover administrative costs in the amount of **\$500.00**, plus a reimbursement to HCPD for any necessary engineering fees which may be incurred for the study and processing of the Application. This fee will permit a single pipeline or utility to be within County right-of-way. Applicant further agrees to pay an additional fee of **\$500.00** for each additional line included in permit application at the same location; however, more than one location may be included in a single application.

Requests to lay additional line or lines, not included in an initial permit application, must be made by separate application, with new permit fees paid accordingly and support data provided.

All permits fees must be submitted with the application for permit.

Permit fees submitted with this application for which pipeline or utility crossing are not approved by Hidalgo County Commissioners Court will be refunded to Applicant.

Permit fees may be waived where Applicant is a state, county, municipality, or a special political subdivision.

13. The Applicant is allowed one hundred twenty days (120) from the granting of the permit to start construction of the pipelines or utilities crossings. Once started, the Applicant is allowed ninety (90) days to complete all work under such permit. All construction must be completed within two hundred ten (210) days from the date of issuance of permit. Upon application, extension of the time periods set forth in this paragraph may be granted by the Hidalgo County Commissioners Court. Such applications for extension must be received by HCPD at least thirty days before the expiration of the two hundred ten (210) days period. A new permit fee, in accordance with Paragraph 12 hereof, will be charged for each extension granted.

Construction of any pipeline or utility crossing will not begin until written approval has been given by HCPD.

14. All provisions of the Pipeline and Utility Permit Administration Policy of Hidalgo County, if any, and all amendments thereto, are hereby incorporated herein as part of the terms and conditions of this permit for all purposes.



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15. Applicant warrants and represents that it has secured from all fee owners of the involved property an easement or other property rights to construct, repair or modify the pipeline or utility in the manner set forth herein.
16. This Pipeline and Utility Permit if granted by Hidalgo County is subject to any and all other requirements, specifications and conditions listed in Exhibit A attached hereto.
17. Hidalgo County requires all coordinates of all utility crossings. Horizontal datum to be in NAD 83 State Plane Texas South 4205 feet and vertical datum in NAVD 88 Geoid 12a.
18. This permit constitutes the entire agreement between the parties with regard to the subject matter hereof, and all prior agreements, representations, and negotiations between the parties regarding the subject matter are hereby superseded. This permit shall not be altered or amended except by an agreement in writing executed by the parties hereto.
19. Applicant warrants and represents that its undersigned representative has full authority to bind Applicant to the terms and conditions of the foregoing Application and Agreement for Pipeline or Utility Permit.



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DATED this 23 day of August, 2018.

Ronald G Hall
(Name of Applicant – Printed or Typed)

By: Ronald G Hall
Signature

Title: Vice President

STATE OF TEXAS
COUNTY OF HIDALGO

SUBSCRIBED AND SWORN TO before me the Applicant,
Ronald C. Hall, on this 23 day of August, 2018,
to which witness my hand and seal of office.



[Signature]
Notary Public for the State of Texas

My Commission Expires: 4/5/2021



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**APPROVAL OF APPLICATION BY
HIDALGO COUNTY PLANNING DEPARTMENT**

Came on for consideration this _____ day of _____,
20____. The above and foregoing Application for Pipeline and Utility
Permit, and after consideration of the same by the Hidalgo County
Commissioners Court, said Application and Agreement for Pipeline or
Utility Permit is hereby APPROVED.

HIDALGO COUNTY:

Ramon Garcia, County Judge



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EXHIBIT A

(Please insert description of project location and supporting documents for proposed utility work)

**Magic Valley Pipeline, LP
16" Gas Pipeline Reroute
Project Description**

This purpose of this project is to comply with the request from the Hidalgo County Drainage District. The 16" gas pipeline is in conflict with the J-09 Drainage project and will be lowered to remove the conflict located at the intersection of 11 Mile Road and Hoehn Drive.

A segment of the existing pipeline will be removed and replaced with approximately 100 feet of new 16" pipe and fittings as described in the attached drawing set. The segment crossing 11 Mile Road will remain at the same 95' elevation and the segment crossing Hoehn Drive will be lowered to 85' elevation to ensure adequate clearance with the planned 60" RCP drain line.

The pipe segment will be installed in compliance with all applicable codes and regulations including CFR Part 192. It will be installed using open trench methodology. The pipe will be hydrotested to check for leaks and to confirm pipeline strength.

Traffic controls will be put in to place in accordance with the attached traffic control plans. Detours will be needed while access through each road is temporarily closed at the intersection.

Once installed the roads will be backfilled per Hidalgo County requirements. Hoehn road will be repaved by either Calpine or Castle Enterprises (working for the drainage district). All disturbed areas in the project vicinity will be returned to their preexisting conditions.



ADDITIONAL REMARKS SCHEDULE

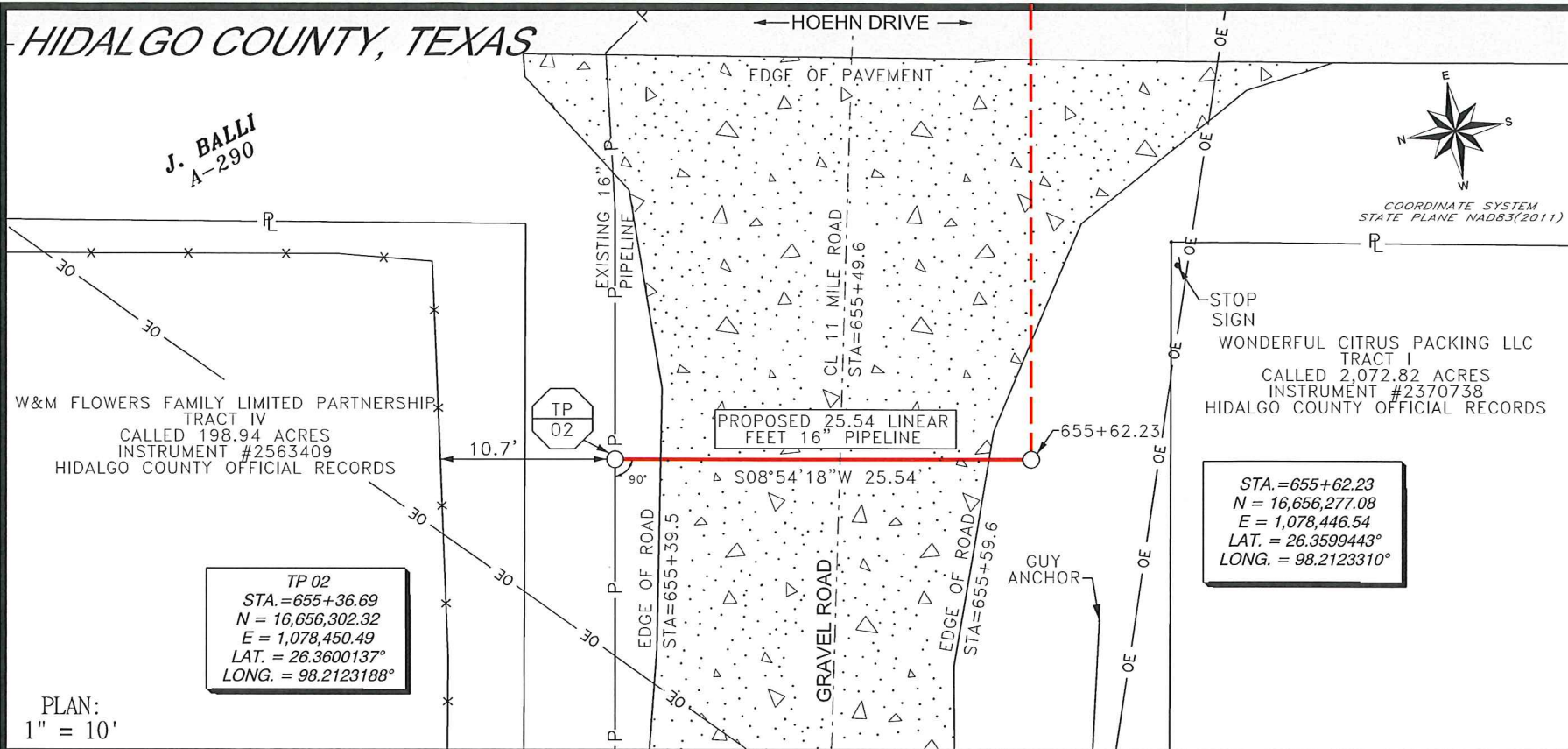
AGENCY MARSH RISK & INSURANCE SERVICES		NAMED INSURED CALPINE HIDALGO ENERGY CENTER, LP 4160 DUBLIN BOULEVARD, SUITE 100 DUBLIN, CA 94568	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: 25 FORM TITLE: Certificate of Liability Insurance

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED, OTHER THAN FOR NON-PAYMENT OF PREMIUM, BEFORE THE EXPIRATION DATE THEREOF, 30 DAYS NOTICE OF CANCELLATION WILL BE DELIVERED BY THE INSURER TO CERTIFICATE HOLDERS IN ACCORDANCE WITH THE POLICY ENDORSEMENTS.

HIDALGO COUNTY, TEXAS



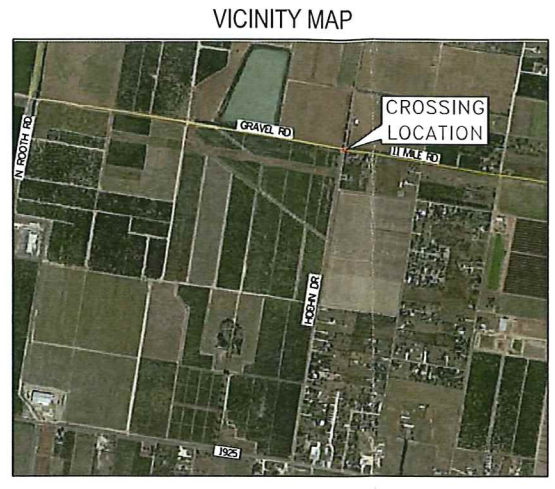
J. BALLI
A-290

W&M FLOWERS FAMILY LIMITED PARTNERSHIP
TRACT IV
CALLED 198.94 ACRES
INSTRUMENT #2563409
HIDALGO COUNTY OFFICIAL RECORDS

TP 02
STA. = 655+36.69
N = 16,656,302.32
E = 1,078,450.49
LAT. = 26.3600137°
LONG. = 98.2123188°

STA. = 655+62.23
N = 16,656,277.08
E = 1,078,446.54
LAT. = 26.3599443°
LONG. = 98.2123310°

PLAN:
1" = 10'



NOTES:
1. ALL BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER BORE METHOD UNLESS OTHERWISE APPROVED BY A HIDALGO COUNTY INSPECTOR OR ENGINEER.
2. CALL BEFORE YOU DIG. TEXAS 811

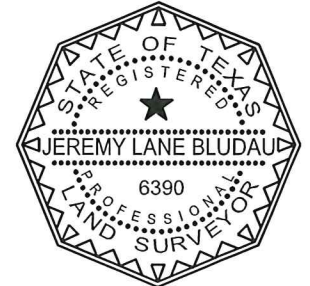
- NOTES:
- 1.) BEARINGS & COORDINATES SHOWN HEREON ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83(2011) DATUM (TEXAS SOUTH ZONE NO. 4205) AS DERIVED FROM GPS OBSERVATIONS. ELEVATIONS SHOWN HEREON ARE BASED ON THE NAVD88 DATUM.
 - 2.) LATITUDE & LONGITUDE ARE NAD83(2011) GEOGRAPHIC.
 - 3.) THIS EXHIBIT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY, AND IS BASED ON OWNERSHIP AND EASEMENT INFORMATION PROVIDED BY CPN PIPELINE COMPANY ONLY. SURVEYOR DID NOT ABSTRACT SUBJECT TRACT AND THERE MAY BE EASEMENTS AND/OR OTHER MATTERS OF RECORD THAT MAY AFFECT THIS TRACT THAT ARE NOT SHOWN HEREON.
 - 4.) EXISTING UTILITIES ARE SHOWN PER ABOVE GROUND EVIDENCE ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS 811 AND ALL UTILITY COMPANIES WITH LINES IN AREA AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION.
 - 5.) ALL PIPELINES SHOWN IN PLAN VIEW SHALL BE CONSTRUCTED PER THE VERTICAL ALIGNMENT DEPICTED IN PROFILE VIEW UNLESS OTHERWISE DIRECTED BY A HIDALGO COUNTY INSPECTOR OR ENGINEER.

TRENCH EXCAVATION PROTECTION:
CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS FOR TRENCH EXCAVATION PROTECTION IN THE PROJECT WORK AREA.

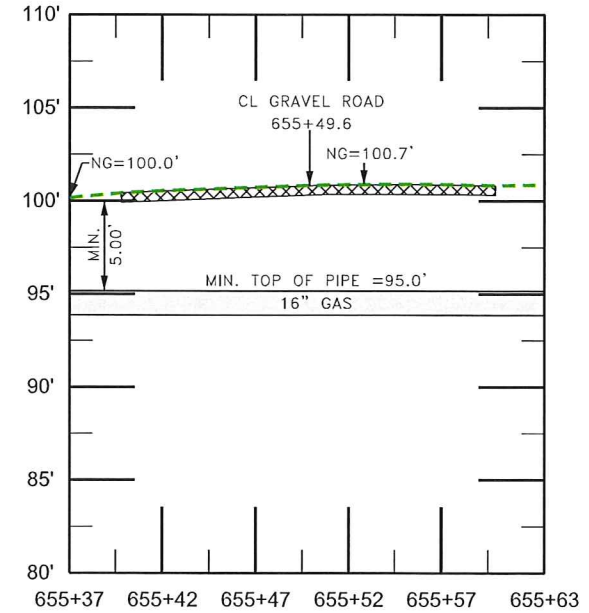
THE CONTRACTOR'S PLANS SHALL PROVIDE ADEQUATE SAFETY SYSTEMS THAT COMPLY WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, THE CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

TRENCH SAFETY NOTES:
1.) ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATOR'S STANDARDS. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED WORK UTILIZING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER FOR THE PROJECT.

I HEREBY CERTIFY THAT THIS EXHIBIT WAS PREPARED FROM A SURVEY PERFORMED ON THE GROUND, AND CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF SAID SURVEY.



Jeremy L. Bludau
JEREMY L. BLUDAU
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6390,
STATE OF TEXAS, SURVEYED JULY 10, 2018



PROFILE:
1" = 10'



MAVERICK ENGINEERING, INC. F-1424

Patrick Matussek

PATRICK MATUREK
PROFESSIONAL ENGINEER
LICENSE NO. 53350,
STATE OF TEXAS
JULY 10, 2018



CPN PIPELINE
COMPANY

MEI MAVERICK
ENGINEERING, INC.
TEL: 361-293-2725 318 E. MORRIS
FAX: 361-293-2176 YOAKUM, TEXAS 77995

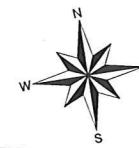
16" GAS CPN MAGIC VALLEY
PIPELINE LOWERING
11 MILE ROAD
CROSSING

ROAD/HYW CROSSING	11 MILE RD	SCALE	HORIZONTAL = 1"=10'
			VERTICAL = 1"=10'
COUNTY	HIDALGO	DRAWN BY:	JR
SURVEY	J. BALLI SURVEY (A-290)	CHECKED BY:	J.B.
REV.		DATE:	08-14-18
REV.		FIRM #	100491-02
REV.			18896-800 SHEET 1 OF 1

HIDALGO COUNTY, TEXAS

W&M FLOWERS FAMILY LIMITED PARTNERSHIP
TRACT II
LOTS 82, 83 & 84
INSTRUMENT #2563409
HIDALGO COUNTY OFFICIAL RECORDS

COORDINATE SYSTEM
STATE PLANE NAD83(2011)



VICINITY MAP



NOTES:
1.) BEARINGS & COORDINATES SHOWN HEREON ARE REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM, NAD83(2011) DATUM (TEXAS SOUTH ZONE NO. 4205) AS DERIVED FROM GPS OBSERVATIONS. ELEVATIONS SHOWN HEREON ARE BASED ON THE NAVD88 DATUM.

2.) LATITUDE & LONGITUDE ARE NAD83(2011) GEOGRAPHIC.

3.) THIS EXHIBIT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY, AND IS BASED ON OWNERSHIP AND EASEMENT INFORMATION PROVIDED BY CPN PIPELINE COMPANY ONLY. SURVEYOR DID NOT ABSTRACT SUBJECT TRACT AND THERE MAY BE EASEMENTS AND/OR OTHER MATTERS OF RECORD THAT MAY AFFECT THIS TRACT THAT ARE NOT SHOWN HEREON.

4.) EXISTING UTILITIES ARE SHOWN PER ABOVE GROUND EVIDENCE ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES IN AREA OF WORK PRIOR TO CONSTRUCTION AND CALL TEXAS 811 AND ALL UTILITY COMPANIES WITH LINES IN AREA AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO CONSTRUCTION.

5.) ALL PIPELINES SHOWN IN PLAN VIEW SHALL BE CONSTRUCTED PER THE VERTICAL ALIGNMENT DEPICTED IN PROFILE VIEW UNLESS OTHERWISE DIRECTED BY A HIDALGO COUNTY INSPECTOR OR ENGINEER.

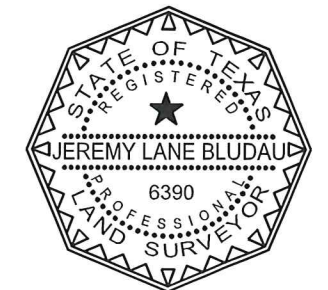
NOTES:
1. ALL BORES SHALL BE ACCOMPLISHED WITH THE CONVENTIONAL DRY AUGER BORE METHOD UNLESS OTHERWISE APPROVED BY A HIDALGO COUNTY INSPECTOR OR ENGINEER.
2. CALL BEFORE YOU DIG. TEXAS 811

TRENCH EXCAVATION PROTECTION:
CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS FOR TRENCH EXCAVATION PROTECTION IN THE PROJECT WORK AREA.

THE CONTRACTOR'S PLANS SHALL PROVIDE ADEQUATE SAFETY SYSTEMS THAT COMPLY WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, THE CONTRACTOR AND/OR THE CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

TRENCH SAFETY NOTES:
1.) ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATOR'S STANDARDS. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCH SAFETY. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED WORK UTILIZING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER FOR THE PROJECT.

I HEREBY CERTIFY THAT THIS EXHIBIT WAS PREPARED FROM A SURVEY PERFORMED ON THE GROUND, AND CORRECTLY REPRESENTS THE FACTS FOUND AT THE TIME OF SAID SURVEY.



Jeremy L. Bludau

JEREMY L. BLUDAU
REGISTERED PROFESSIONAL LAND SURVEYOR
LICENSE NO. 6390,
STATE OF TEXAS, SURVEYED JULY 10, 2018

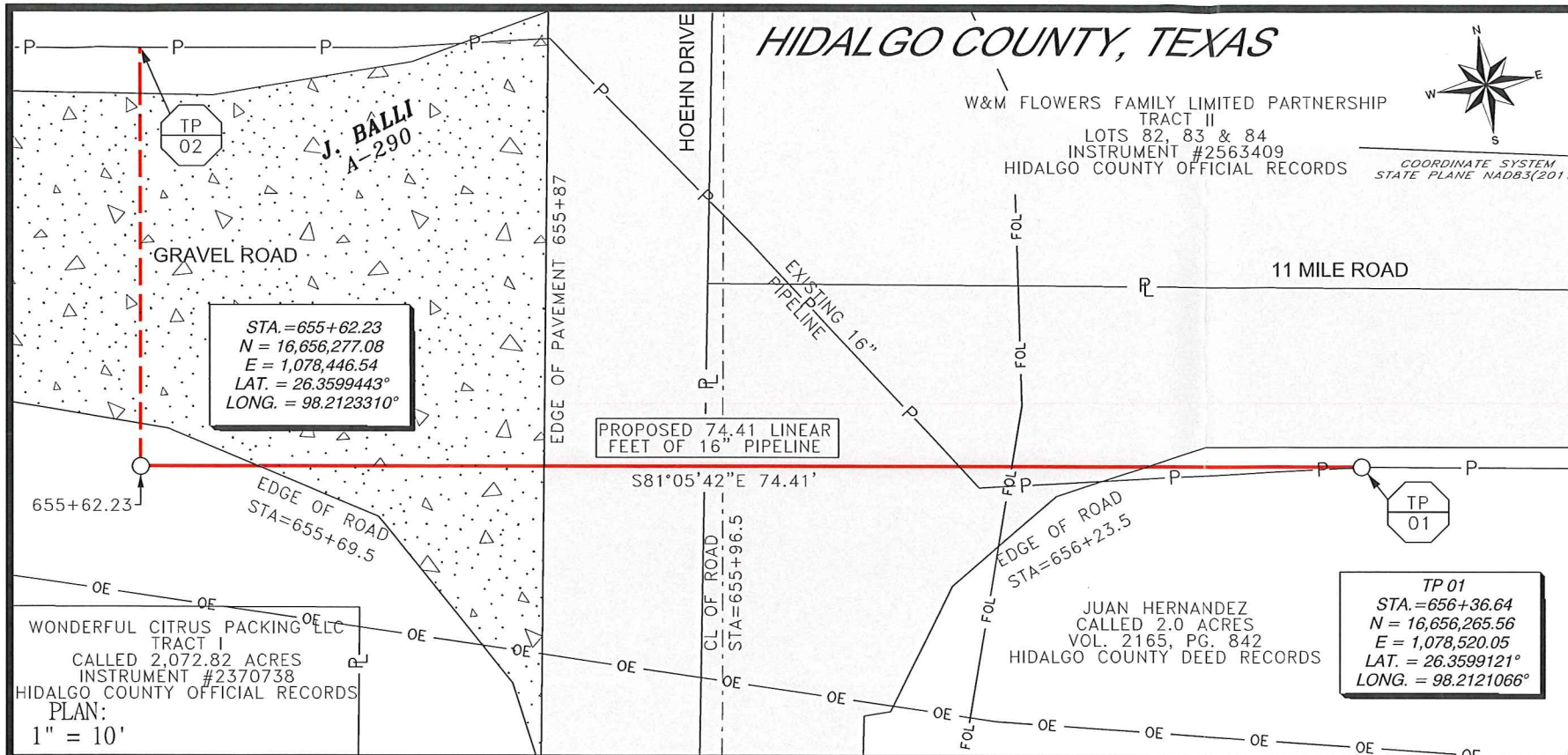
16" GAS CPN MAGIC VALLEY PIPELINE LOWERING HOEHN DRIVE CROSSING



CPN PIPELINE COMPANY

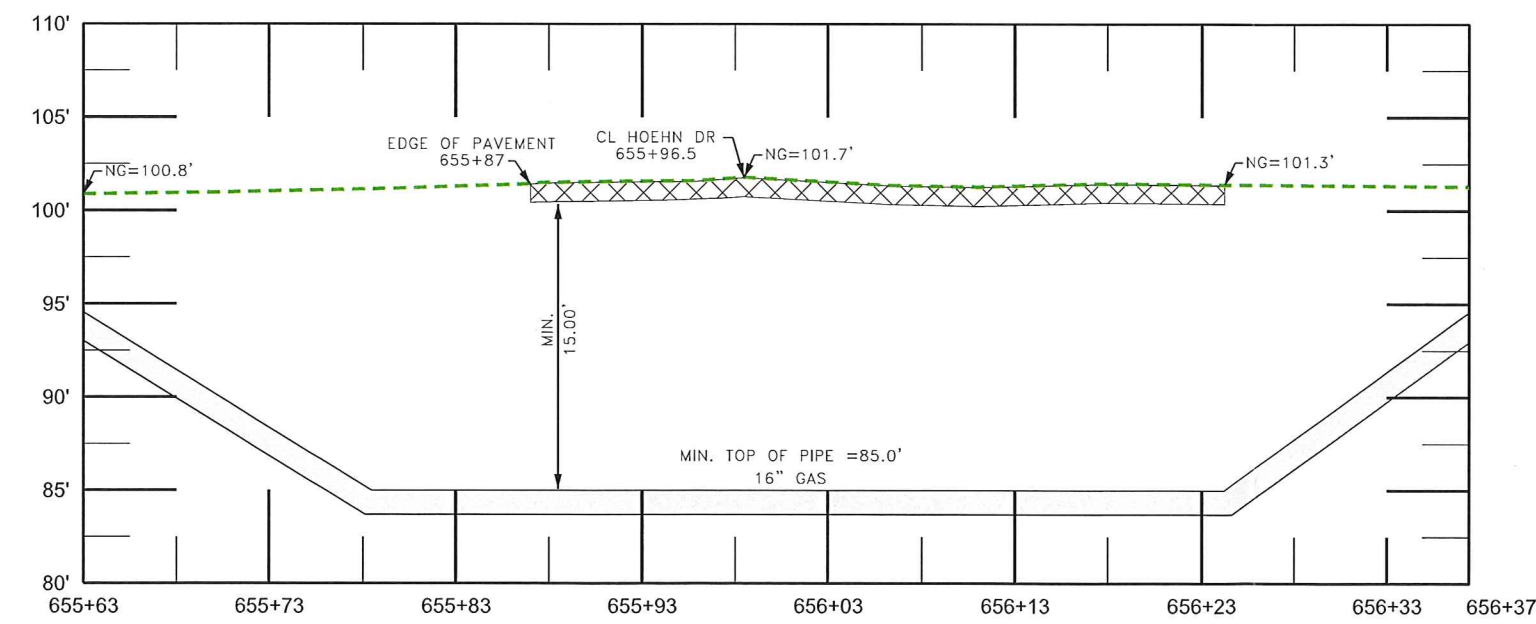


ROAD/HWY CROSSING	HOEHN DRIVE	SCALE	HORIZONTAL = 1"=10'	VERTICAL = 1"=10'
COUNTY	HIDALGO	DRAWN BY:	JR	
SURVEY	J. BALLI SURVEY (A-290)	CHECKED BY:	J.B.	
REV.		DATE:	08-14-18	
REV.		FIRM #	100491-02	
REV.		18896-800	SHEET 1 OF 1	



STA.=655+62.23
N = 16,656,277.08
E = 1,078,446.54
LAT. = 26.3599443°
LONG. = 98.2123310°

TP 01
STA.=656+36.64
N = 16,656,265.56
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LAT. = 26.3599121°
LONG. = 98.2121066°

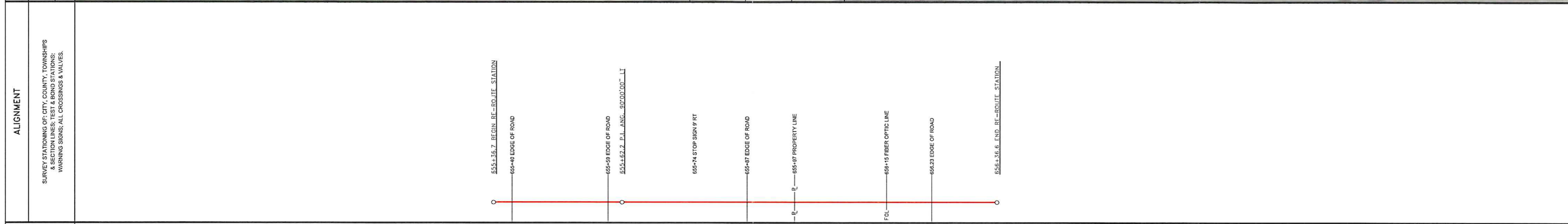
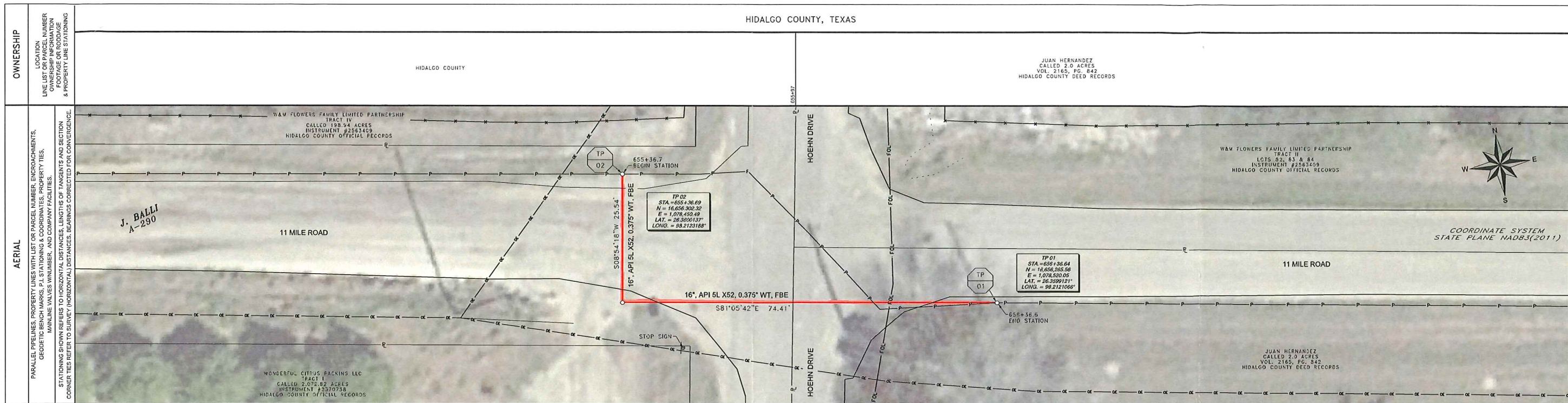


Patrick Matussek

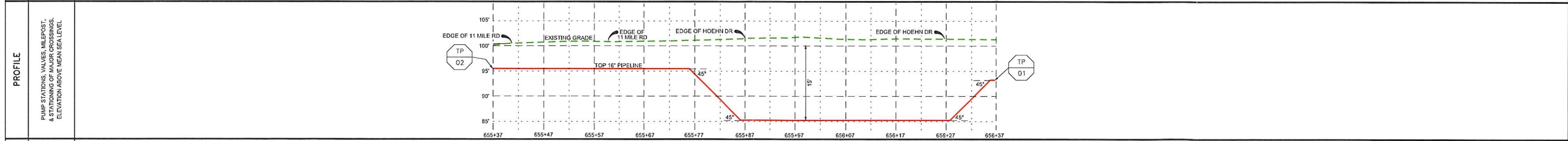
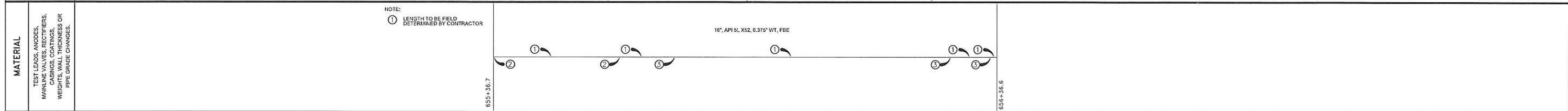
PATRICK MATUREK
PROFESSIONAL ENGINEER
LICENSE NO. 53350,
STATE OF TEXAS
JULY 10, 2018

MAVERICK ENGINEERING, INC. F-1424

PROFILE:
1" = 10'



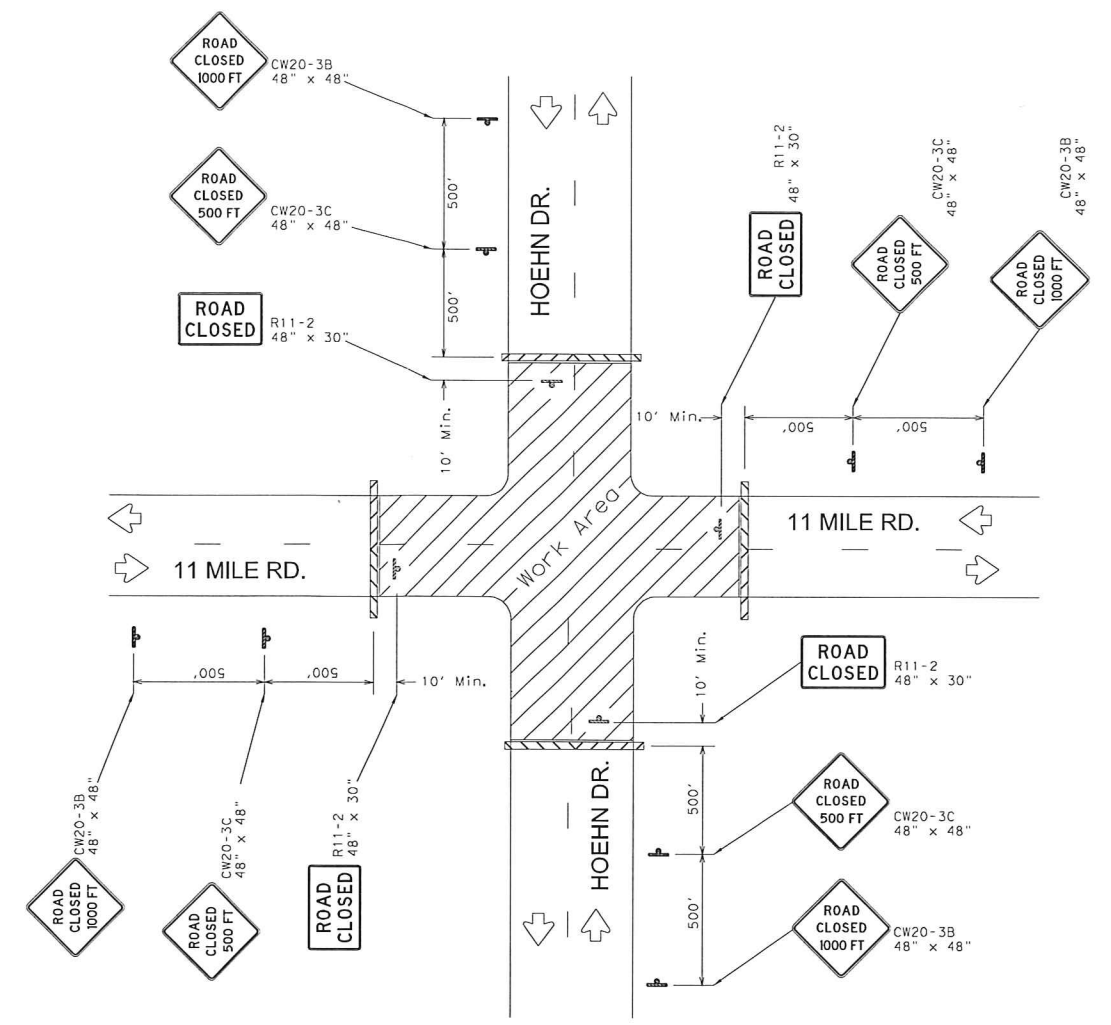
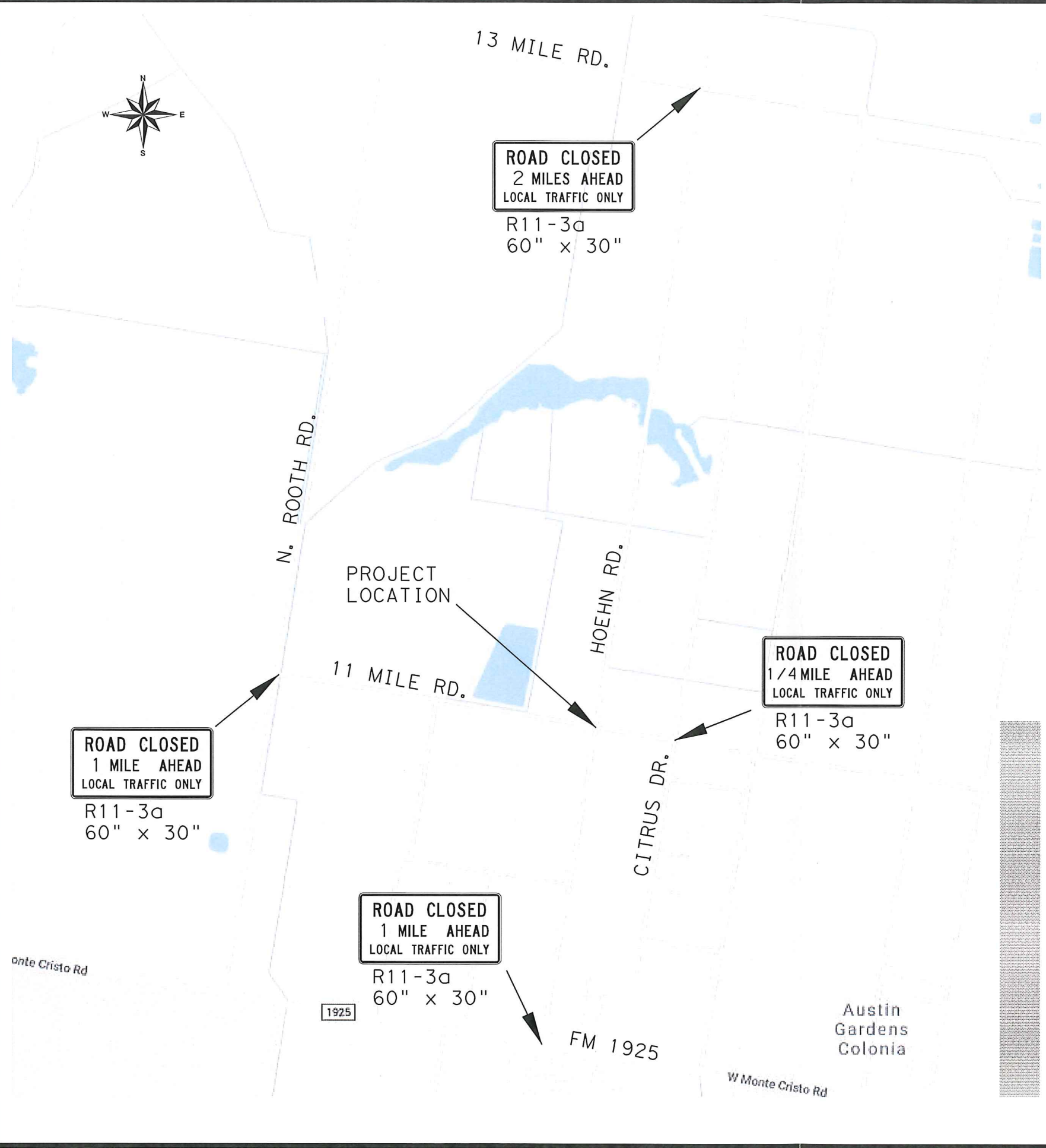
CLASS	CLASS 3 1050 MAOP				
LAND USE	DITCH	11 MILE RD (GRAVEL)	DITCH / GRAVEL APRON	HOEHN DR. (ASPHALT)	DITCH



EASEMENT	PERMANENT EASEMENT TEMPORARY EASEMENT EXTRA WORK SPACE		PERMANENT 45' R.O.W.		16\"/>	
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REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CH'D</th> <th>APP.</th> <th>DESCRIPTION</th> </tr> <tr> <td>A</td> <td>5/17/18</td> <td>JR</td> <td>JB</td> <td>JB</td> <td>ISSUED FOR APPROVAL</td> </tr> </table>		NO.	DATE	BY	CH'D	APP.	DESCRIPTION	A	5/17/18	JR	JB	JB	ISSUED FOR APPROVAL	MATERIAL SUMMARY <table border="1"> <tr> <th>ITEM NO.</th> <th>QUANTITY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>120 LF</td> <td>PIPE, 16"OD x 0.375"WT, API 5L X-52, FBE COATED</td> </tr> <tr> <td>2</td> <td>2</td> <td>PIPE BEND, 16"OD x 0.375"WT, 50 DEG, SDR, API 5L X-52, FBE COATED</td> </tr> <tr> <td>3</td> <td>3</td> <td>PIPE BEND, 16"OD x 0.375"WT, 45 DEG, SDR, API 5L X-52, FBE COATED</td> </tr> </table>		ITEM NO.	QUANTITY	DESCRIPTION	1	120 LF	PIPE, 16"OD x 0.375"WT, API 5L X-52, FBE COATED	2	2	PIPE BEND, 16"OD x 0.375"WT, 50 DEG, SDR, API 5L X-52, FBE COATED	3	3	PIPE BEND, 16"OD x 0.375"WT, 45 DEG, SDR, API 5L X-52, FBE COATED	BEARINGS AND COORDINATE DATA SHOWN HEREON IS REFERENCED TO THE TEXAS STATE PLANE COORDINATE SYSTEM NAD83(2011) DATUM, TEXAS SOUTH ZONE NO. 4205, AS DERIVED FROM GPS OBSERVATIONS. ELEVATIONS SHOWN HEREON ARE BASED ON THE NAVD83 DATUM. LATITUDE AND LONGITUDE REFLECTS NAD83(2011) GEOGRAPHIC VALUES. THIS EXHIBIT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE SUBJECT TRACTS. PROPERTY LINES AND SURVEY INFORMATION SHOWN HEREON WAS COMPILED FROM RECORD INFORMATION OBTAINED FROM COUNTY RECORDS, CPN PIPELINE COMPANY AND THE GENERAL LAND OFFICE. UTILITY AND PIPELINE INFORMATION SHOWN HEREON REPRESENTS APPROXIMATE LOCATIONS ONLY. MEI DOES NOT CERTIFY OR GUARANTEE THAT ALL UNDERGROUND UTILITIES OR PIPELINES ARE SHOWN. PRIOR TO ANY CONSTRUCTION OR EXCAVATION, CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES IN THE WORK AREA.		FIRM # 100491-02 ENGINEERING RECORD DRAWN BY: JR OPEX APP CHECKED BY: JB INER APP DRAFTING APPROV: JB INER APP PROJECT: 16" CPN MAGIC VALLEY PIPELINE LOWERING CLIENT: CPN PIPELINE COMPANY LOCATION: HIDALGO COUNTY FILE NO: 16156-300	
NO.	DATE	BY	CH'D	APP.	DESCRIPTION																										
A	5/17/18	JR	JB	JB	ISSUED FOR APPROVAL																										
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CONSTRUCTION SIGNING AT PROJECT LOCATION

- NOTES:
1. 11 MILE ROAD AND HOEHN DRIVE WILL BE CLOSED DURING CONSTRUCTION.
 2. TYPE 3 BARRICADES TO BE PLACED IN A LOCATION THAT IS SATISFACTORY TO THE ENGINEER TO ALLOW EGRESS AND INGRESS FOR THE LOCAL PROPERTY OWNERS.
 3. SEE TXDOT BC SHEETS FOR SIGN SPACING.

TRAFFIC CONTROL PLAN

(NO SCALE)

CPN PIPELINE COMPANY

MEP MAVERICK ENGINEERING, INC.
 318 E. MORRIS
 YOAKUM, TEXAS 77995
 TEL: 361-293-2725
 FAX: 361-293-2176

**16" GAS CPN MAGIC VALLEY PIPELINE LOWERING
 11 MILE ROAD @ HOEHN DRIVE**

ROAD/HYV CROSSING	11 MILE RD/HOEHN DR.	SCALE	HORIZONTAL = NONE	VERTICAL = NONE
COUNTY	HIDALGO	DRAWN BY:	JPP	
SURVEY	J. BALLI SURVEY (A-290)	CHECKED BY:	JB	
REV.		DATE:	08-16-18	
REV.		FIRM #	100491-02	
REV.		18896-800	SHEET 1 OF 1	

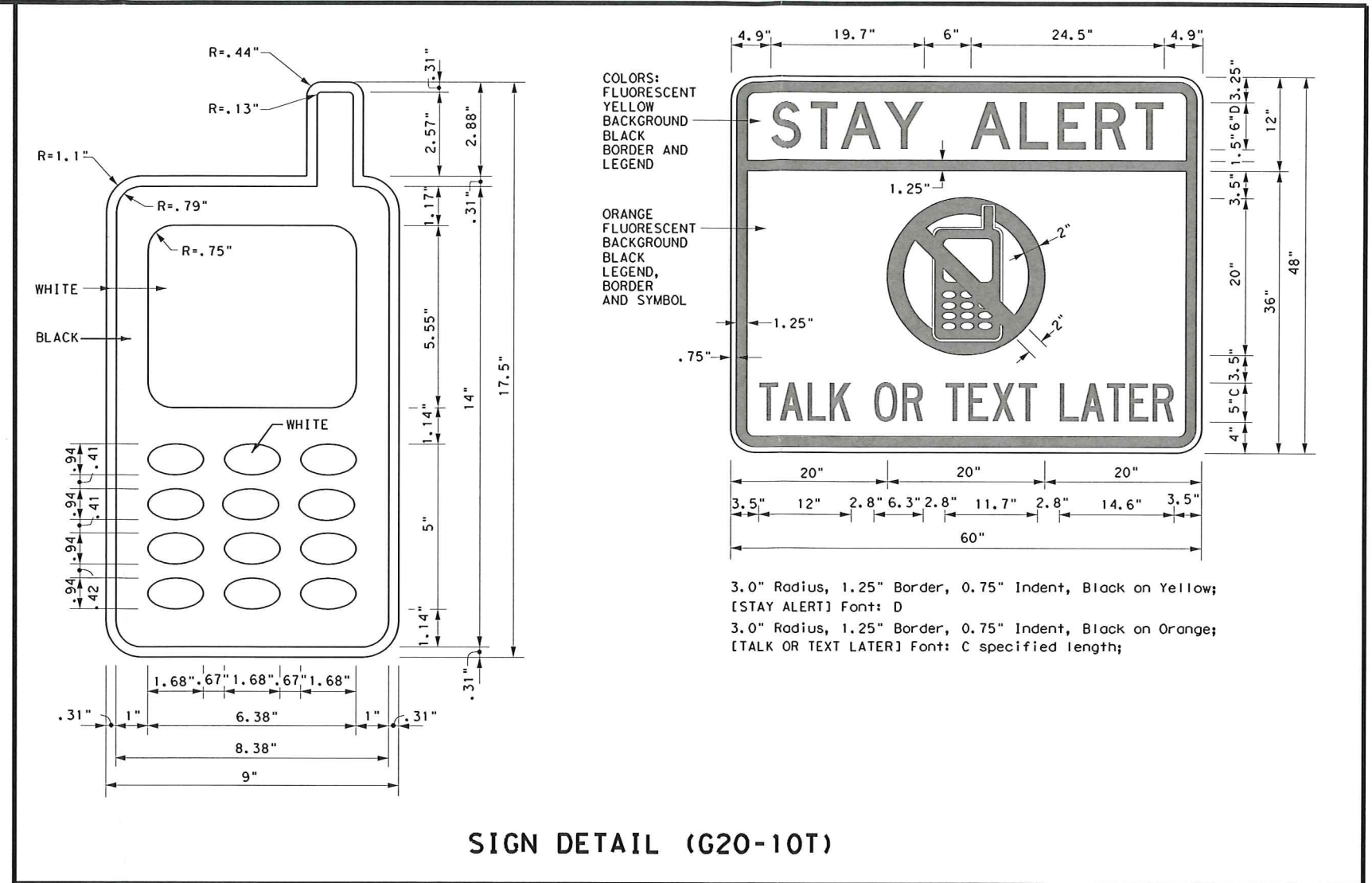
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BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

- The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction pavement markings, and typical work zone signs. The information contained in these sheets meet or exceed the requirements shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD).
- The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
- The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may develop, sign and seal Contractor proposed changes.
- The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.
- Geometric design of lane shifts and detours should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "A Policy on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.
- When projects abut, the Engineer(s) may omit the END ROAD WORK, TRAFFIC FINES DOUBLE, and other advance warning signs if the signing would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the necessary warning signs as shown on these sheets, the TCP sheets or as directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES sign shall be revised to show appropriate work zone distance.
- The Engineer may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.
- All signs shall be constructed in accordance with the details found in the "Standard Highway Sign Designs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.
- The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.
- As shown on BC(2), the OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER (see Sign Detail G20-10T) and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. However, the TRAFFIC FINES DOUBLE sign will not be required on projects consisting solely of mobile operation work, such as striping or milling edgeline rumble strips. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits.
- Except for devices required by Note 10, traffic control devices should be in place only while work is actually in progress or a definite need exists.
- The Engineer has the final decision on the location of all traffic control devices.
- Inactive equipment and work vehicles, including workers' private vehicles must be parked away from travel lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail, or as approved by the Engineer.

WORKER SAFETY APPAREL NOTES:

- Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.



Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be found on-line at the web address given below or by contacting:

Texas Department of Transportation
 Traffic Operations Division - TE
 Phone (512) 416-3118

THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov	
COMPLIANT WORK ZONE TRAFFIC CONTROL DEVICES LIST (CWZTCD)	
DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)	
MATERIAL PRODUCER LIST (MPL)	
ROADWAY DESIGN MANUAL - SEE "MANUALS (ONLINE MANUALS)"	
STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (SHSD)	
TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD)	
TRAFFIC ENGINEERING STANDARD SHEETS	

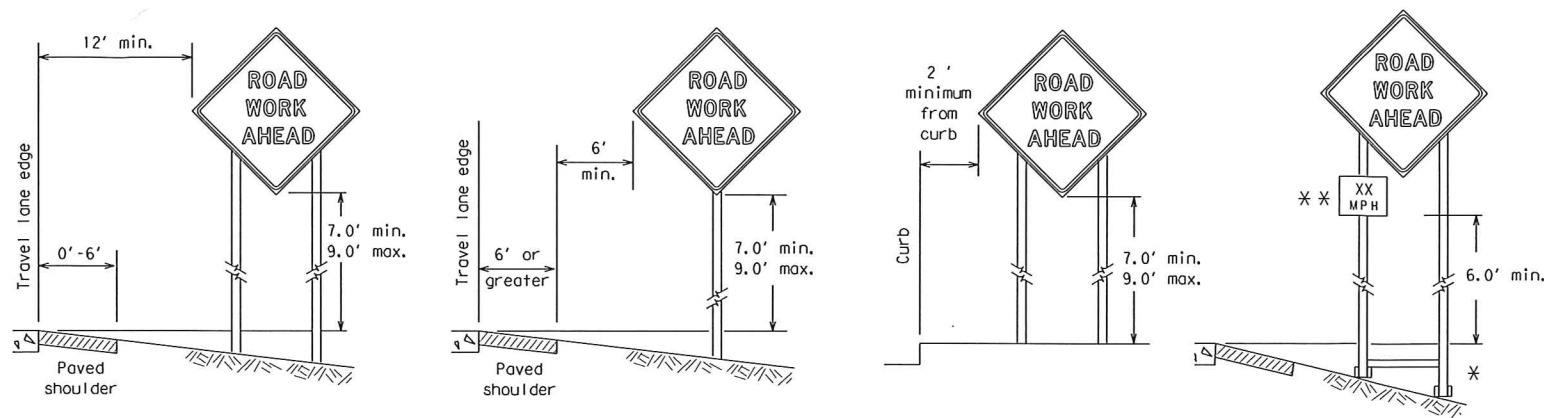
SHEET 1 OF 12

		<i>Traffic Operations Division Standard</i>
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS		
BC(1)-14		
FILE: bc-14.dgn	DN: TxDOT	CK: TxDOT
© TxDOT November 2002	CONT	SECT
REVISIONS	JOB	HIGHWAY
4-03 5-10 8-14	DIST	COUNTY
9-07 7-13		SHEET NO.

DATE: FILE:

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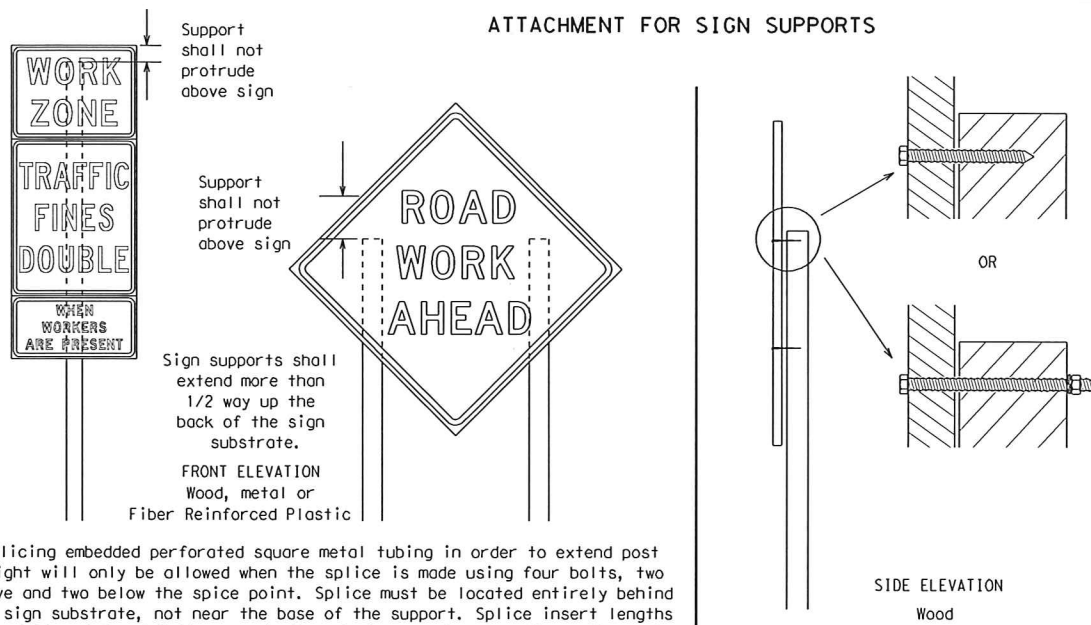
TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS



* When placing skid supports on unlevel ground, the leg post lengths must be adjusted so the sign appears straight and plumb. Objects shall NOT be placed under skids as a means of leveling.

** When plaques are placed on dual-leg supports, they should be attached to the upright nearest the travel lane. Supplemental plaques (advisory or distance) should not cover the surface of the parent sign.

ATTACHMENT FOR SIGN SUPPORTS



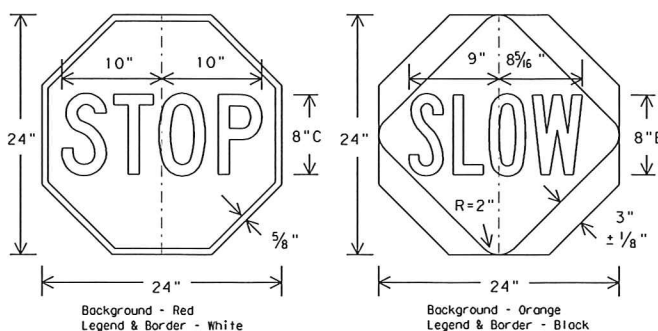
Attachment to wooden supports will be by bolts and nuts or screws. Use TxDOT's or manufacturer's recommended procedures for attaching sign substrates to other types of sign supports

Nails shall NOT be allowed.
Each sign shall be attached directly to the sign support. Multiple signs shall not be joined or spliced by any means. Wood supports shall not be extended or repaired by splicing or other means.

Splicing embedded perforated square metal tubing in order to extend post height will only be allowed when the splice is made using four bolts, two above and two below the splice point. Splice must be located entirely behind the sign substrate, not near the base of the support. Splice insert lengths should be at least 5 times nominal post size, centered on the splice and of at least the same gauge material.

STOP/SLOW PADDLES

1. STOP/SLOW paddles are the primary method to control traffic by flaggers. The STOP/SLOW paddle size should be 24" x 24" as detailed below.
2. When used at night, the STOP/SLOW paddle shall be retroreflectORIZED.
3. STOP/SLOW paddles may be attached to a staff with a minimum length of 6' to the bottom of the sign.
4. Any lights incorporated into the STOP or SLOW paddle faces shall only be as specifically described in Section 6E.03 Hand Signaling Devices in the TMUTCD.



CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used to give notice of traffic laws or regulations, call attention to conditions that are potentially hazardous to traffic operations, show route designations, destinations, directions, distances, services, points of interest, and other geographical, recreational, or cultural information. Drivers proceeding through a work zone need the same, if not better route guidance as normally installed on a roadway without construction.
2. When permanent regulatory or warning signs conflict with work zone conditions, remove or cover the permanent signs until the permanent sign message matches the roadway condition.
3. When existing permanent signs are moved and relocated due to construction purposes, they shall be visible to motorists at all times.
4. If existing signs are to be relocated on their original supports, they shall be installed on crashworthy bases as shown on the SMD Standard sheets. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards. This work should be paid for under the appropriate pay item for relocating existing signs.
5. If permanent signs are to be removed and relocated using temporary supports, the Contractor shall use crashworthy supports as shown on the BC sheets or the CWZTCD. The signs shall meet the required mounting heights shown on the BC Sheets or the SMD Standards during construction. This work should be paid for under the appropriate pay item for relocating existing signs.
6. Any sign or traffic control device that is struck or damaged by the Contractor or his/her construction equipment shall be replaced as soon as possible by the Contractor to ensure proper guidance for the motorists. This will be subsidiary to Item 502.

GENERAL NOTES FOR WORK ZONE SIGNS

1. Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
 2. Wooden sign posts shall be painted white.
 3. Barricades shall NOT be used as sign supports.
 4. All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
 5. The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the TMUTCD but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes.
 6. The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so the Engineer can verify the correct procedures are being followed.
 7. The Contractor is responsible for installing signs on approved supports and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
 8. Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1 inch.
 9. The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.
- DURATION OF WORK (as defined by the "Texas Manual on Uniform Traffic Control Devices" Part 6)**
1. The types of sign supports, sign mounting height, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring the sign support, sign mounting height and substrate meets manufacturer's recommendations in regard to crashworthiness and duration of work requirements.
 - a. Long-term stationary - work that occupies a location more than 3 days.
 - b. Intermediate-term stationary - work that occupies a location more than one daylight period up to 3 days, or nighttime work lasting more than one hour.
 - c. Short-term stationary - daytime work that occupies a location for more than 1 hour in a single daylight period.
 - d. Short, duration - work that occupies a location up to 1 hour.
 - e. Mobile - work that moves continuously or intermittently (stopping for up to approximately 15 minutes.)

SIGN MOUNTING HEIGHT

1. The bottom of Long-term/Intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface, except as shown for supplemental plaques mounted below other signs.
2. The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
3. Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
4. Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday or raised to appropriate Long-term/Intermediate sign height.
5. Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

SIZE OF SIGNS

1. The Contractor shall furnish the sign sizes shown on BC (2) unless otherwise shown in the plans or as directed by the Engineer.

SIGN SUBSTRATES

1. The Contractor shall ensure the sign substrate is installed in accordance with the manufacturer's recommendations for the type of sign support that is being used. The CWZTCD lists each substrate that can be used on the different types and models of sign supports.
2. "Mesh" type materials are NOT an approved sign substrate, regardless of the tightness of the weave.
3. All wooden individual sign panels fabricated from 2 or more pieces shall have one or more plywood cleat, 1/2" thick by 6" wide, fastened to the back of the sign and extending fully across the sign. The cleat shall be attached to the back of the sign using wood screws that do not penetrate the face of the sign panel. The screws shall be placed on both sides of the splice and spaced at 6" centers. The Engineer may approve other methods of splicing the sign face.

REFLECTIVE SHEETING

1. All signs shall be retroreflective and constructed of sheeting meeting the color and retro-reflectivity requirements of DMS-8300 for rigid signs or DMS-8310 for roll-up signs. The web address for DMS specifications is shown on BC(1).
2. White sheeting, meeting the requirements of DMS-8300 Type A, shall be used for signs with a white background.
3. Orange sheeting, meeting the requirements of DMS-8300 Type B_{FL} or Type C_{FL}, shall be used for rigid signs with orange backgrounds.

SIGN LETTERS

1. All sign letters and numbers shall be clear, and open rounded type uppercase alphabet letters as approved by the Federal Highway Administration (FHWA) and as published in the "Standard Highway Sign Design for Texas" manual. Signs, letters and numbers shall be of first class workmanship in accordance with Department Standards and Specifications.

REMOVING OR COVERING

1. When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
2. Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
3. Signs installed on wooden skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
4. When signs are covered, the material used shall be opaque, such as heavy mil black plastic, or other materials which will cover the entire sign face and maintain their opaque properties under automobile headlights at night, without damaging the sign sheeting.
5. Burlap shall NOT be used to cover signs.
6. Duct tape or other adhesive material shall NOT be affixed to a sign face.
7. Signs and anchor stubs shall be removed and holes backfilled upon completion of work.

SIGN SUPPORT WEIGHTS

1. Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand should be used.
2. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
3. Rock, concrete, iron, steel or other solid objects shall not be permitted for use as sign support weights.
4. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
5. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall NOT be used.
6. Rubber ballasts designed for channelizing devices should not be used for ballast on portable sign supports. Sign supports designed and manufactured with rubber bases may be used when shown on the CWZTCD list.
7. Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
8. Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

FLAGS ON SIGNS

1. Flags may be used to draw attention to warning signs. When used the flag shall be 16 inches square or larger and shall be orange or fluorescent red-orange in color. Flags shall not be allowed to cover any portion of the sign face.

SHEET 4 OF 12

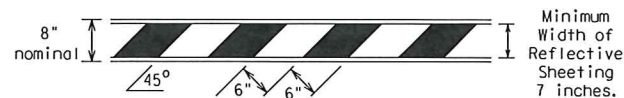
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BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES			
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REVISIONS			HIGHWAY
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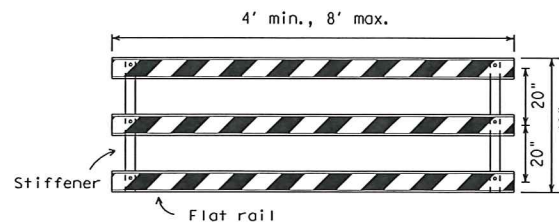
TYPE 3 BARRICADES

1. Refer to the Compliant Work Zone Traffic Control Devices List (CWZTCD) for details of the Type 3 Barricades and a list of all materials used in the construction of Type 3 Barricades.
2. Type 3 Barricades shall be used at each end of construction projects closed to all traffic.
3. Barricades extending across a roadway should have stripes that slope downward in the direction toward which traffic must turn in detouring. When both right and left turns are provided, the chevron striping may slope downward in both directions from the center of the barricade. Where no turns are provided at a closed road striping should slope downward in both directions toward the center of roadway.
4. Striping of rails, for the right side of the roadway, should slope downward to the left. For the left side of the roadway, striping should slope downward to the right.
5. Identification markings may be shown only on the back of the barricade rails. The maximum height of letters and/or company logos used for identification shall be 1".
6. Barricades shall not be placed parallel to traffic unless an adequate clear zone is provided.
7. Warning lights shall NOT be installed on barricades.
8. Where barricades require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended. The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight. Sand bags shall not be stacked in a manner that covers any portion of a barricade rails reflective sheeting. Rock, concrete, iron, steel or other solid objects will NOT be permitted. Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs. Sandbags shall be made of a durable material that tears upon vehicular impact. Rubber (such as tire inner tubes) shall not be used for sandbags. Sandbags shall only be placed along or upon the base supports of the device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners.
9. Sheeting for barricades shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300 unless otherwise noted.

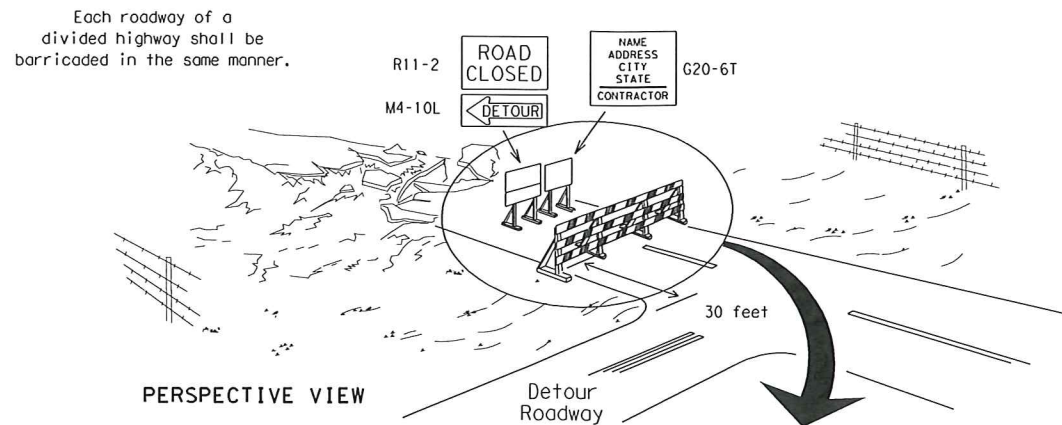
Barricades shall NOT be used as a sign support.



TYPICAL STRIPING DETAIL FOR BARRICADE RAIL



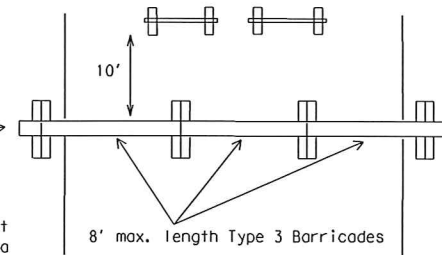
TYPICAL PANEL DETAIL FOR SKID OR POST TYPE BARRICADES



PERSPECTIVE VIEW

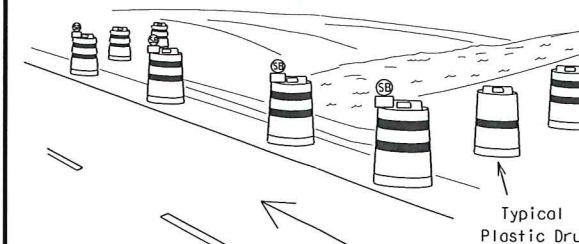
The three rails on Type 3 barricades shall be reflectorized orange and reflective white stripes on one side facing one-way traffic and both sides for two-way traffic. Barricade striping should slant downward in the direction of detour.

1. Signs should be mounted on independent supports at a 7 foot mounting height in center of roadway. The signs should be a minimum of 10 feet behind Type 3 Barricades.
2. Advance signing shall be as specified elsewhere in the plans.



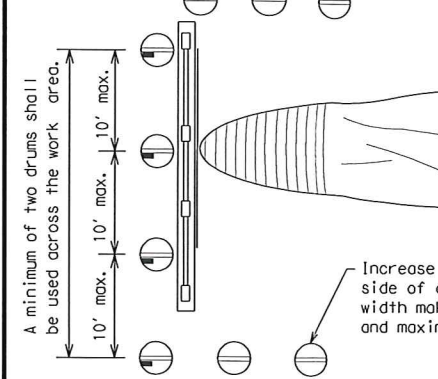
PLAN VIEW

TYPE 3 BARRICADE (POST AND SKID) TYPICAL APPLICATION



PERSPECTIVE VIEW

These drums are not required on one-way roadway

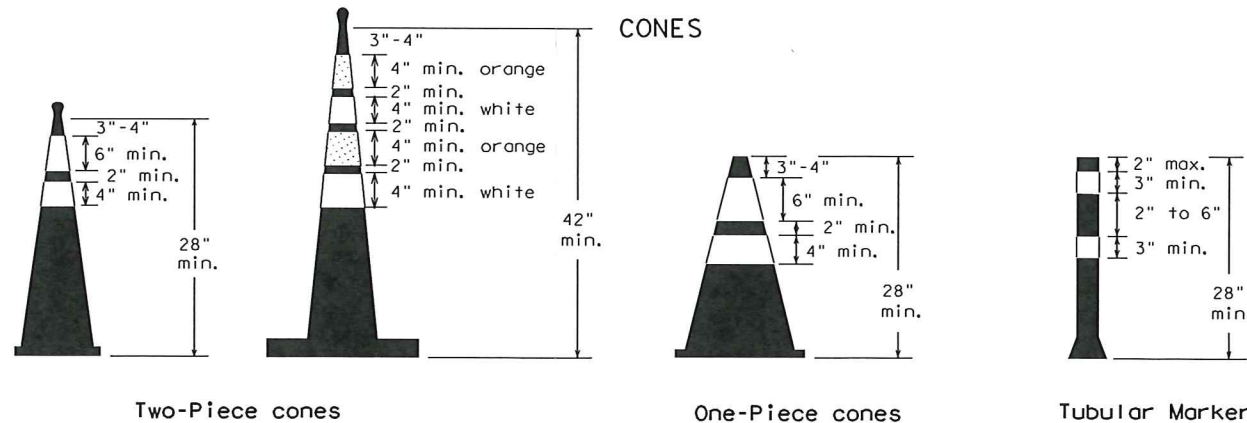


PLAN VIEW

CULVERT WIDENING OR OTHER ISOLATED WORK WITHIN THE PROJECT LIMITS

1. Where positive redirection capability is provided, drums may be omitted.
2. Plastic construction fencing may be used with drums for safety as required in the plans.
3. Vertical Panels on flexible support may be substituted for drums when the shoulder width is less than 4 feet.
4. When the shoulder width is greater than 12 feet, steady-burn lights may be omitted if drums are used.
5. Drums must extend the length of the culvert widening.

LEGEND	
	Plastic drum
	Plastic drum with steady burn light or yellow warning reflector
	Steady burn warning light or yellow warning reflector



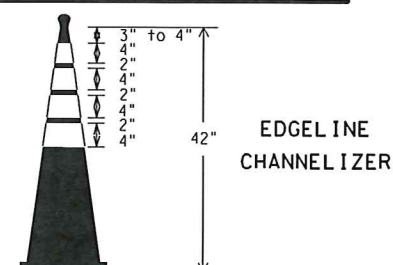
Two-Piece cones

One-Piece cones

Tubular Marker

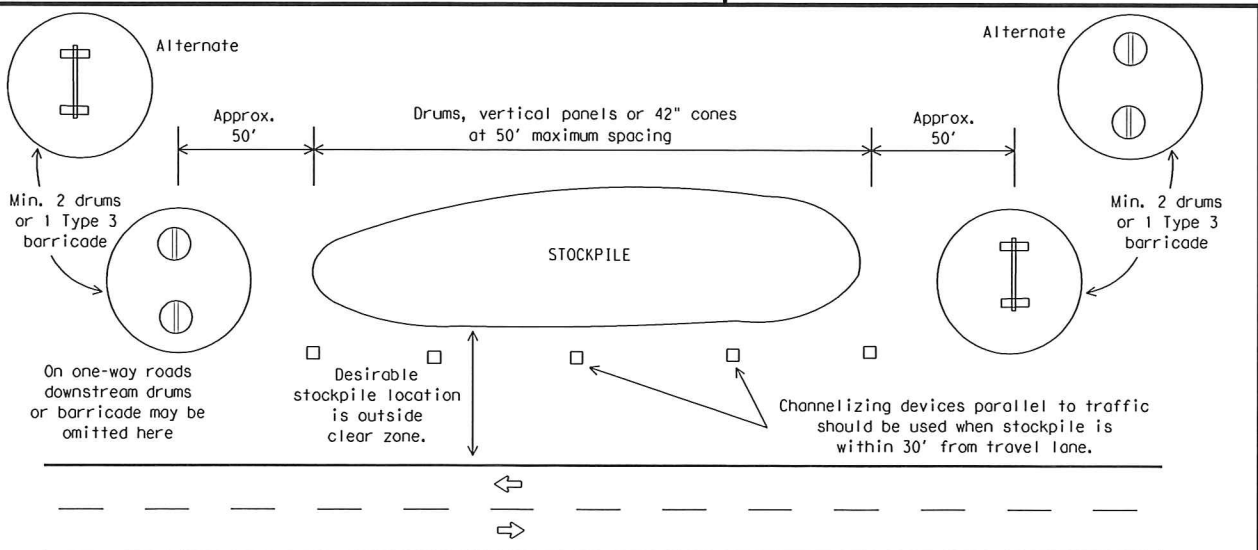
28" Cones shall have a minimum weight of 9 1/2 lbs.
42" 2-piece cones shall have a minimum weight of 30 lbs. including base.

THIS DEVICE SHALL NOT BE USED ON PROJECTS LET AFTER MARCH 2014.



EDGE LINE CHANNELIZER

1. This device is intended only for use in place of a vertical panel to channelize traffic by indicating the edge of the travel lane. It is not intended to be used in transitions or tapers.
2. This device shall not be used to separate lanes of traffic (opposing or otherwise) or warn of objects.
3. This device is based on a 42 inch, two-piece cone with an alternate striping pattern: four 4 inch retroreflective bands, with an approximate 2 inch gap between bands. The color of the band should correspond to the color of the edgeline (yellow for left edgeline, white for right edgeline) for which the device is substituted or for which it supplements. The reflectorized bands shall be retroreflective Type A conforming to Departmental Material Specification DMS-8300, unless otherwise noted.
4. The base must weigh a minimum of 30 lbs.



TRAFFIC CONTROL FOR MATERIAL STOCKPILES

1. Traffic cones and tubular markers shall be predominantly orange, and meet the height and weight requirements shown above.
2. One-piece cones have the body and base of the cone molded in one consolidated unit. Two-piece cones have a cone shaped body and a separate rubber base, or ballast, that is added to keep the device upright and in place.
3. Two-piece cones may have a handle or loop extending up to 8" above the minimum height shown, in order to aid in retrieving the device.
4. Cones or tubular markers used at night shall have white or white and orange reflective bands as shown above. The reflective bands shall have a smooth, sealed outer surface and meet the requirements of Departmental Material Specification DMS-8300 Type A.
5. 28" cones and tubular markers are generally suitable for short duration and short-term stationary work as defined on BC(4). These should not be used for intermediate-term or long-term stationary work unless personnel is on-site to maintain them in their proper upright position.
6. 42" two-piece cones, vertical panels or drums are suitable for all work zone durations.
7. Cones or tubular markers used on each project should be of the same size and shape.

		Texas Department of Transportation		Traffic Operations Division Standard	
BARRICADE AND CONSTRUCTION CHANNELIZING DEVICES					
BC (10) - 14					
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