



18,498-3

1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/16/2023

NOV 28 2023

RE: CR 1025 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By [Signature]

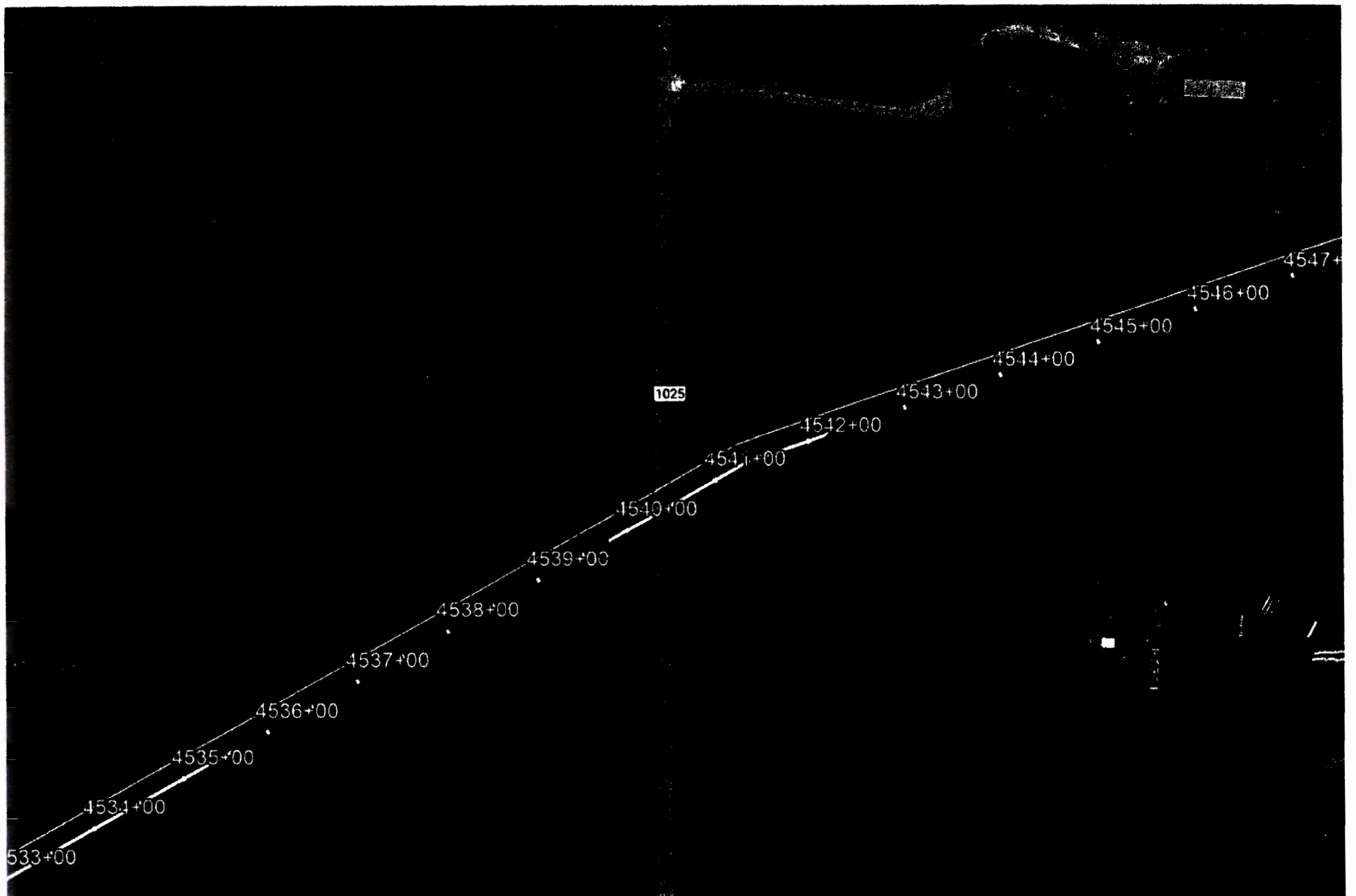
Dear Hunt County,

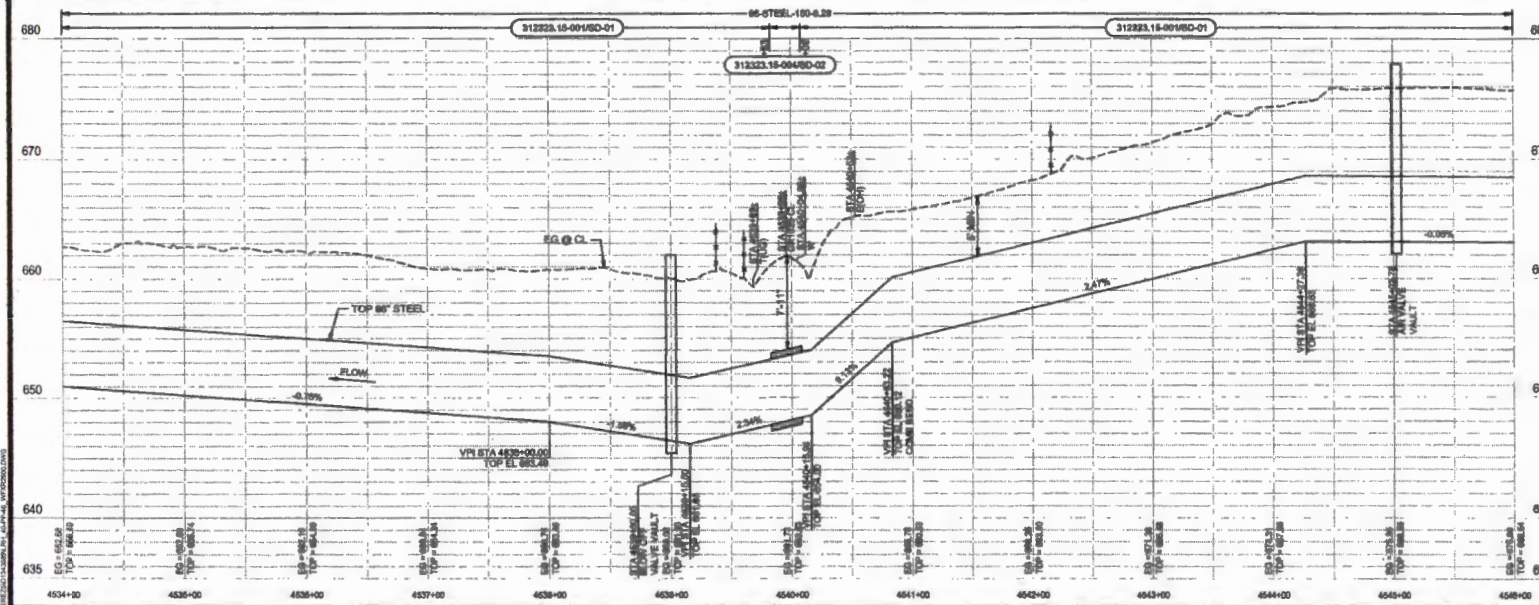
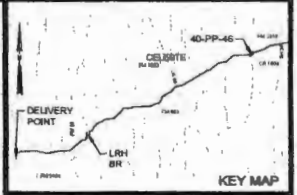
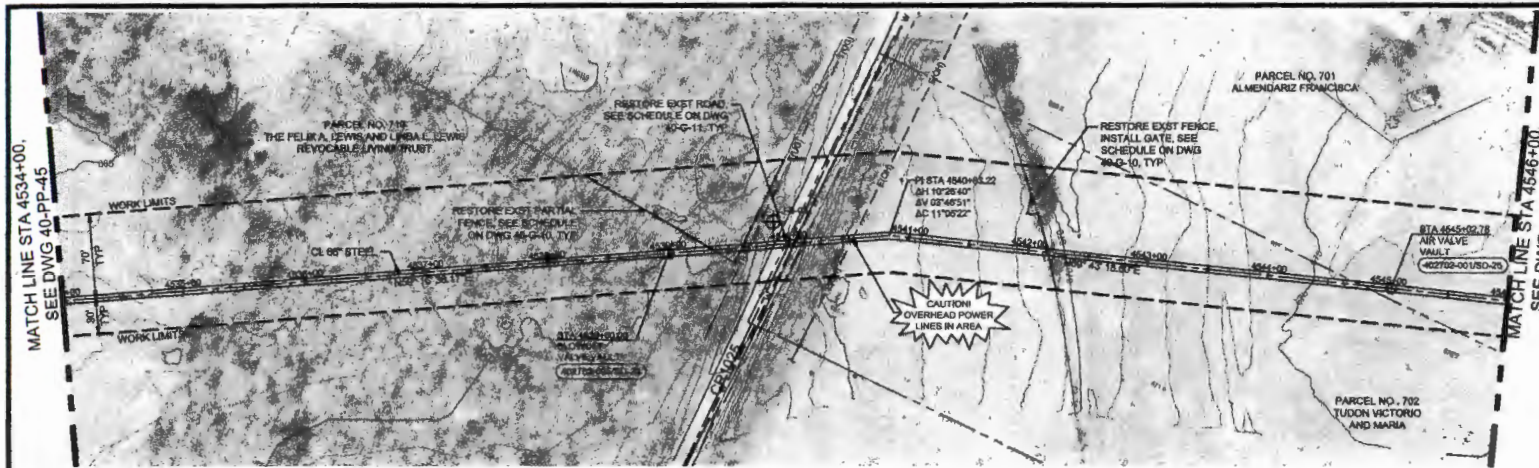
McKee Utilities is seeking permission from Hunt County to Cross County Road 1025 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager





ISSUED FOR CONSTRUCTION

NO.	DATE	BY	CHKD	REVISIONS

JOB NO. WFR2000
 SCALE: AS SHOWN
 DATE: JUNE 2023

DESIGNED BY: HCS
 DRAWN BY: JPC
 CHECKED BY: AAN
 APPROVED BY: BMH

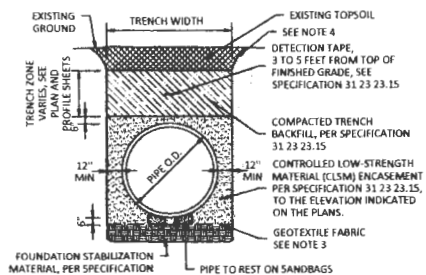
UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
 PIPELINE PLAN AND PROFILE
 STA 4534+00 TO STA 4546+00

Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 2961

PRINT DATE	6/28/2023
SHEET	40-PP-46
REV	62

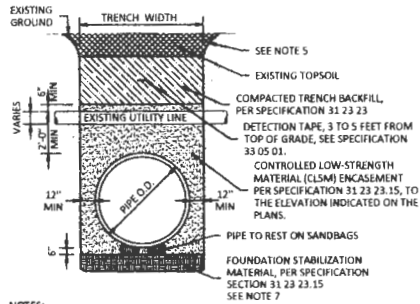
TEXAS REGISTERED ENGINEERING FIRM # 13 3/8/2023 9:59 AM C:\Users\lbauman\OneDrive\Documents\Plummer Associates\9715-006-01 (R) Task 3 Details\Project Files\VPD\STD-DTD\Plumber\STANDARD DETAILS\002.dwg Bauman



NOTES:

- SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
- INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
- CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004

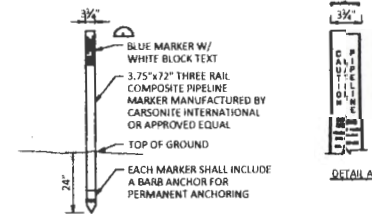


NOTES:

- SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
- THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT.
- THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (3) DAYS PRIOR TO CROSSING THE UTILITY.
- FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASEMENT ON PROPOSED PIPE 10' ON EACH SIDE OF UTILITY CROSSING.
- CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
- IF THE CROSSING UTILITY IS LESS THAN 6-INCHES AND 3 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
- CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.

(BY OPEN CUT)

UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



NOTES:

- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 LF ALONG PIPELINE ALIGNMENT.
- EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTRWD (972) 219-1228, STA XXX-XXX" ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

JOB NO. XXX
SCALE AS SHOWN
DATE: SEPTEMBER 2022
DESIGNED BY: CLF
DRAWN BY: FAC
CHECKED BY: CLF
APPROVED BY: CRM



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE
PROGRAM STANDARD DETAILS SHEET 2
CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



REVISION DATE
03/09/2023
SHEET
SD-02
SEC

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the State of Texas for the use of this standard or for incorrect results or damages resulting from its use.

DATE: FILE:

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.
- Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 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 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.
- Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC(1) - 21			
FILE: bc(1).dgn TXDOT November 2002	DWG: 1x2001 4-03 9-07 5-10	SHEET: 1 of 12 7-13 8-14 5-21	COUNTY: _____ SHEET NO.: 30-45

18,498-4



1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/16/2023

NOV 28 2023

RE: CR 1026 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By [Signature]

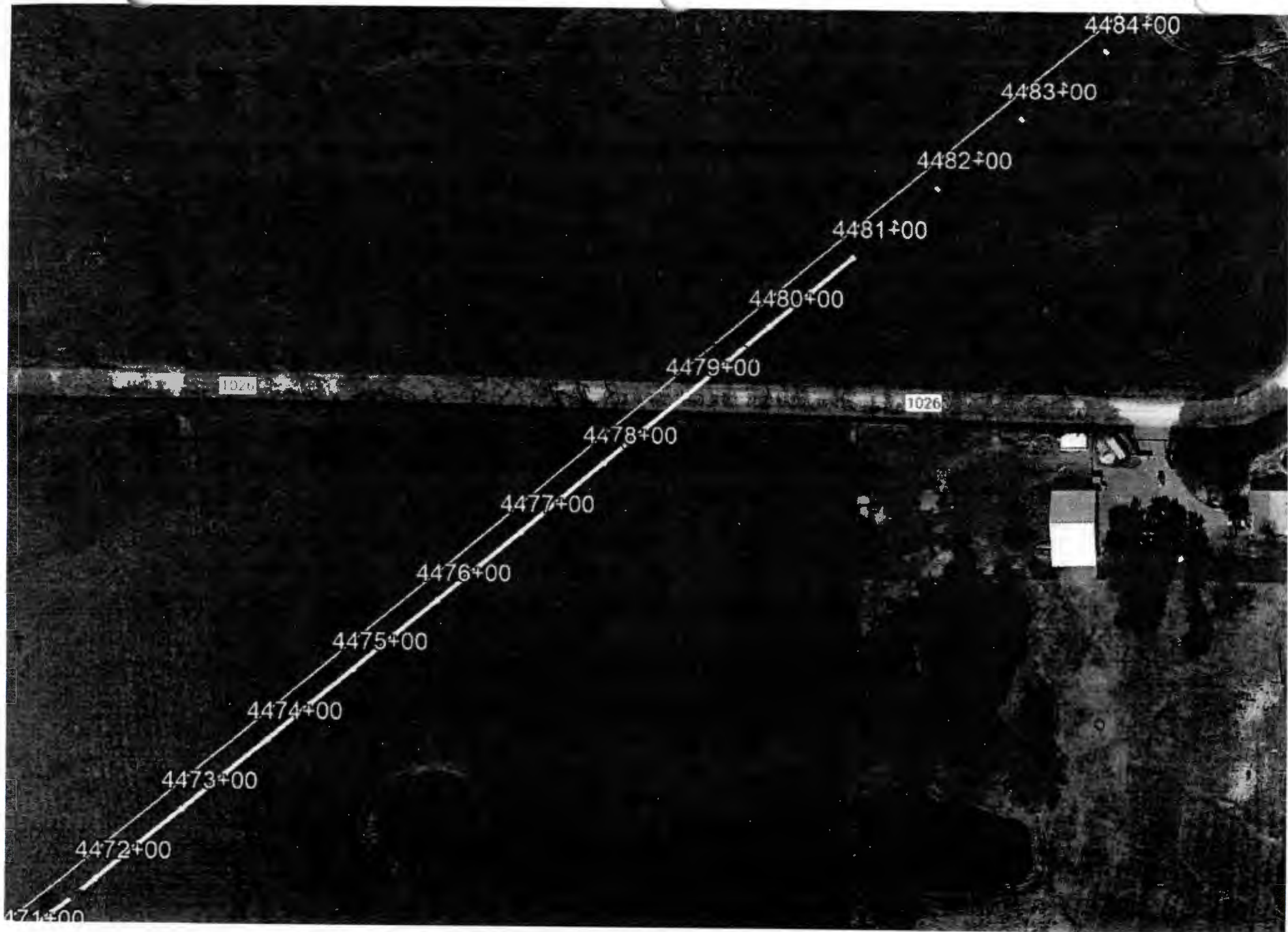
Dear Hunt Conty,

McKee Utilities is seeking permission from Hunt County to Cross County Road 1026 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.

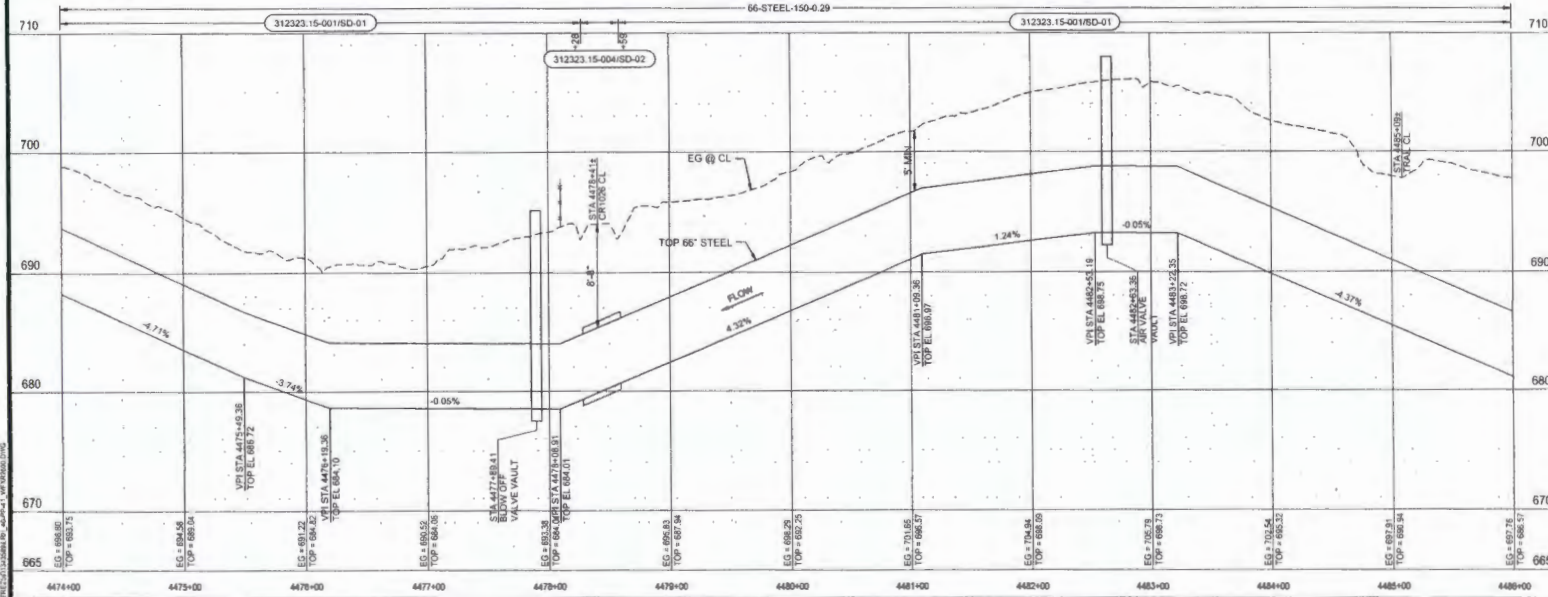
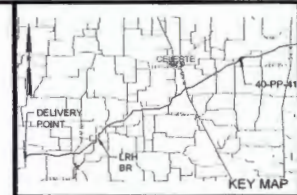
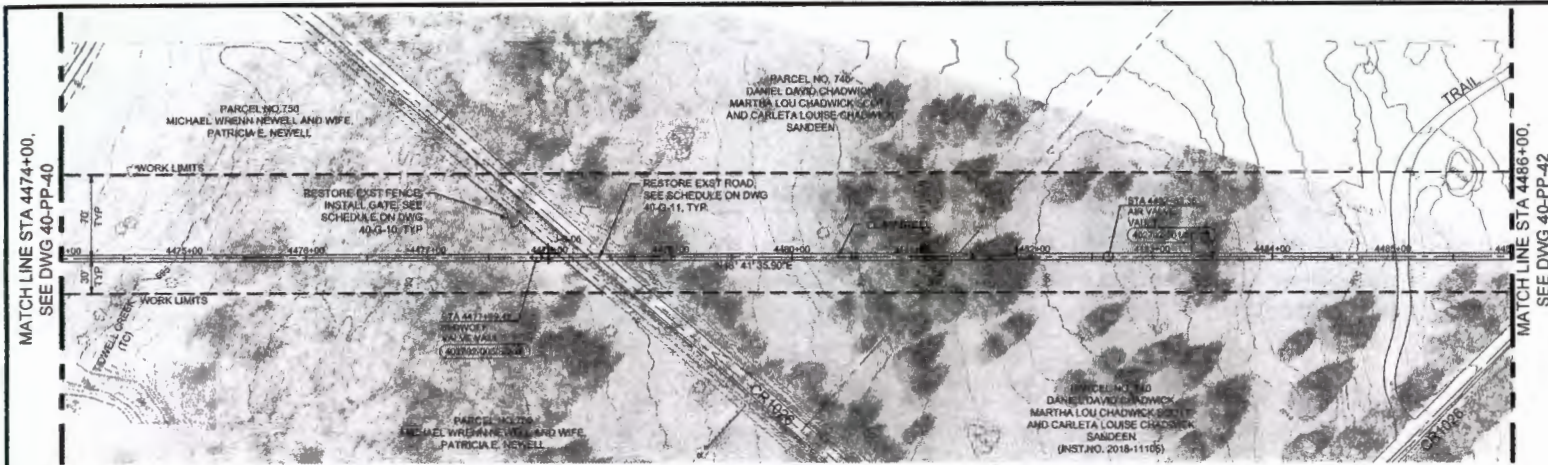
Andrew Beck
Sr. Project Manager



1026

1026





ISSUED FOR CONSTRUCTION

NO.	DATE	DRWN	CHRD	REVISIONS

JOB NO. 187382001
SCALE: AS SHOWN
DATE: JUNE 2023

DESIGNED BY: HCB
DRAWN BY: JPC
CHECKED BY: AAM
APPROVED BY: SMJ

LAKE RALPH HALL

UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
STA 4474+00 TO STA 4486+00

UPPER TRINITY
REGIONAL WATER DISTRICT

Jacobs
TEXAS REGISTERED ENGINEERING FIRM 2966

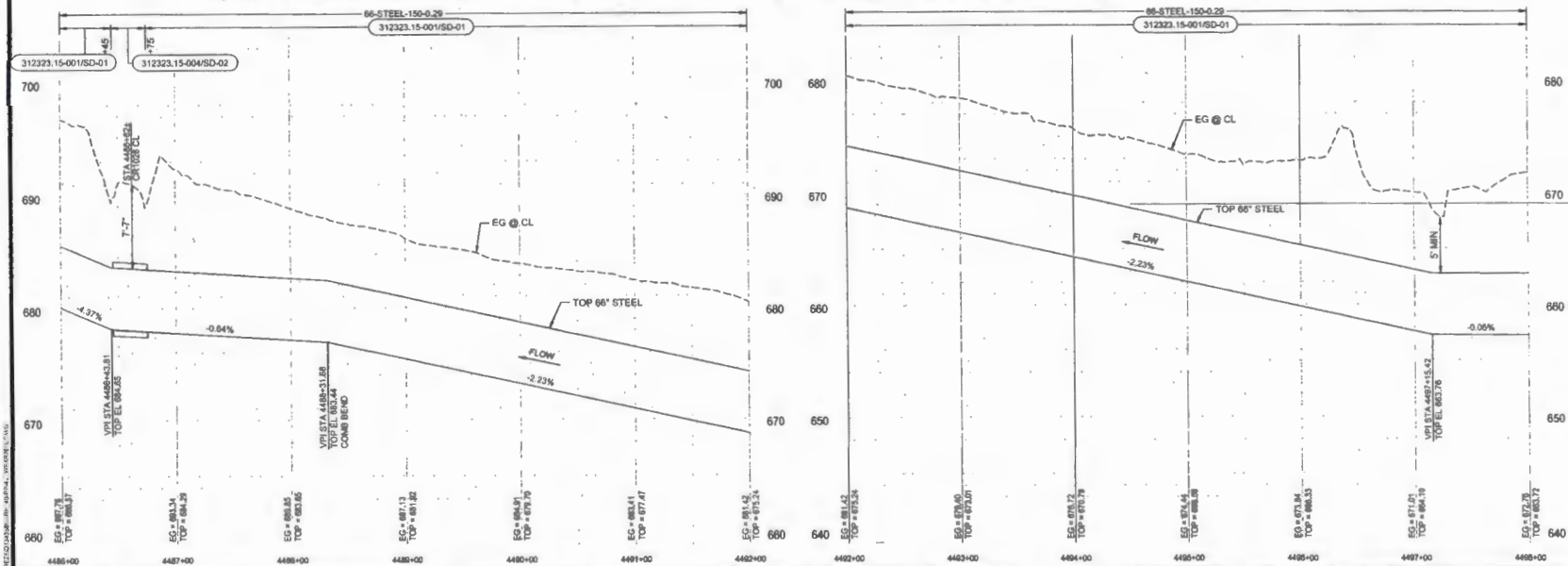
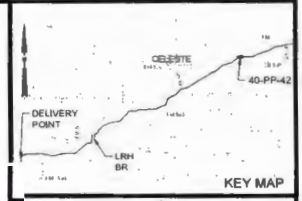
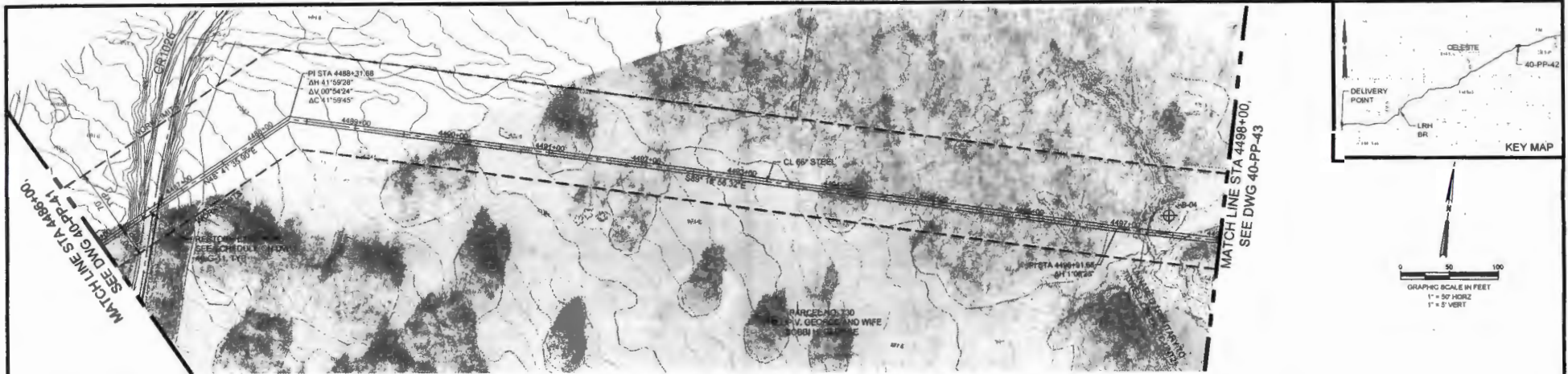
PRINT DATE
6/28/2023

SHEET
40-PP-41

REG.
57

HOLLIE S. CAMPRELL
STATE OF TEXAS
LICENSED PROFESSIONAL ENGINEER
NO. 12288
06-28-2023


C:\PW\187382001\DWG\40-PP-41_PIPES.PLT




ISSUED FOR CONSTRUCTION

NO	DATE	DRWN	CHKD	REVISIONS


JOB NO. WPTJ2009
 SCALE AS SHOWN
 DATE: JUNE 2023
 DESIGNED BY: HCB
 DRAWN BY: JPC
 CHECKED BY: AAM
 APPROVED BY: BMB



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE
 40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
 STA 4486+00 TO STA 4498+00

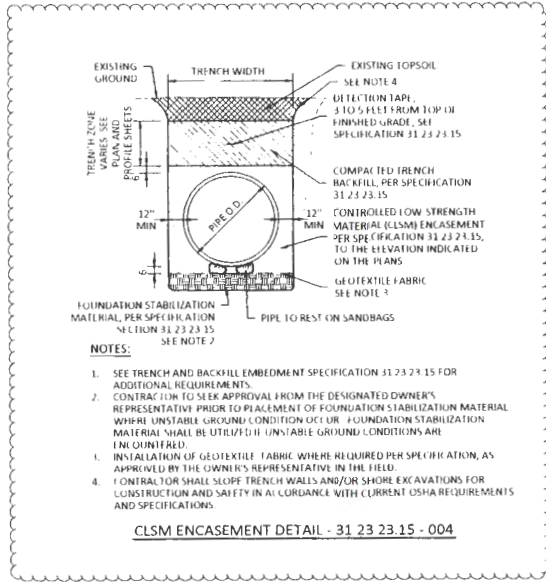


Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 2996

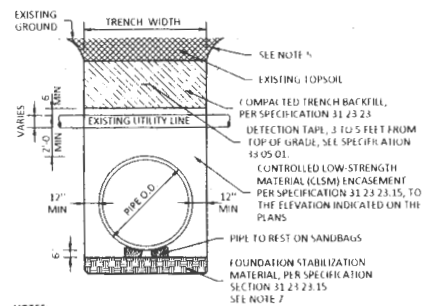


PRINT DATE: 6/28/2023
 SHEET: 40-PP-42
 SEC: 58

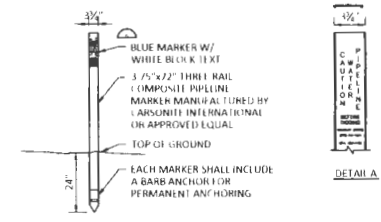
TEXAS REGISTERED ENGINEERING FIRM # 13 30638229-002 AMERICAN PLUMBERS ASSOCIATION OF TEXAS (APP) PROJECT FILES \PROJECT FILES\SDC\DRAWINGS\STANDARD DETAILS\002.dwg (blueman)



CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



- NOTES:
- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BRANCH VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 LF ALONG PIPELINE ALIGNMENT.
 - EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION: "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTILITY (372) 219-1228, 31A XXX-XX". ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

DATE: 09/2022
DESIGNED BY: JLF
DRAWN BY: JLF
CHECKED BY: JLF
APPROVED BY: JLF



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



LAN Lockwood, Andrews & Newnam, Inc.
PLUMBER



REVISION DATE: 03/09/2023
SHEET: SD-02
REG:

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by the Texas Department of Transportation for the use of this standard or for any results or damages resulting from its use.

DATE: _____
 FILE: _____

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

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3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. 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 NOTES:

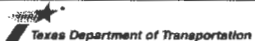

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance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

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC (1) - 21			
REV	BY	DATE	DESCRIPTION
4-03	7-13		
5-07	8-14		
5-10	5-21		
			5045



1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com


18,498-5

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/16/2023

NOV 28 2023

RE: CR 1042 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

Dear Hunt Conty,

McKee Utilities is seeking permission from Hunt County to Cross County Road 1042 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

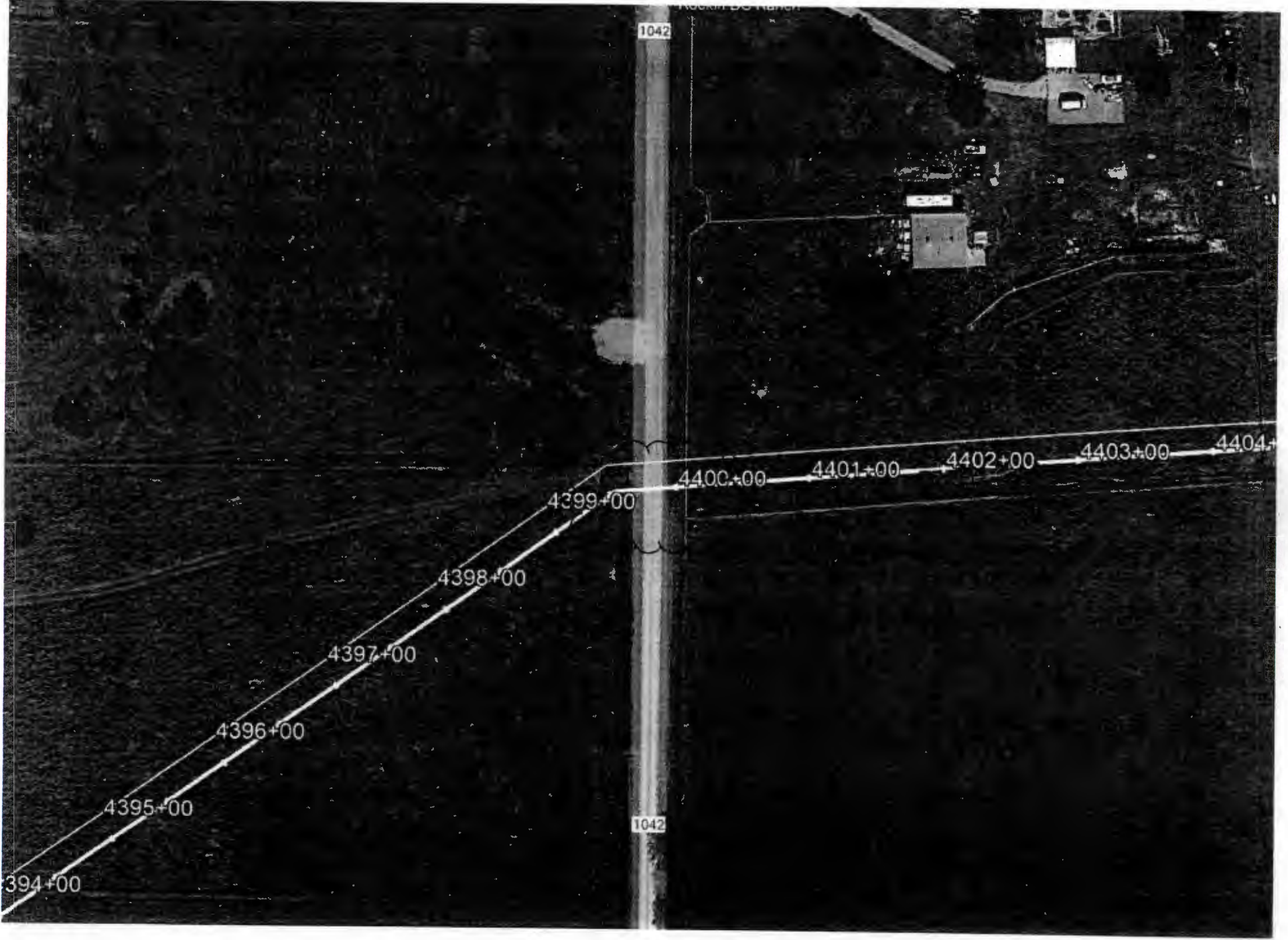
Sincerely,

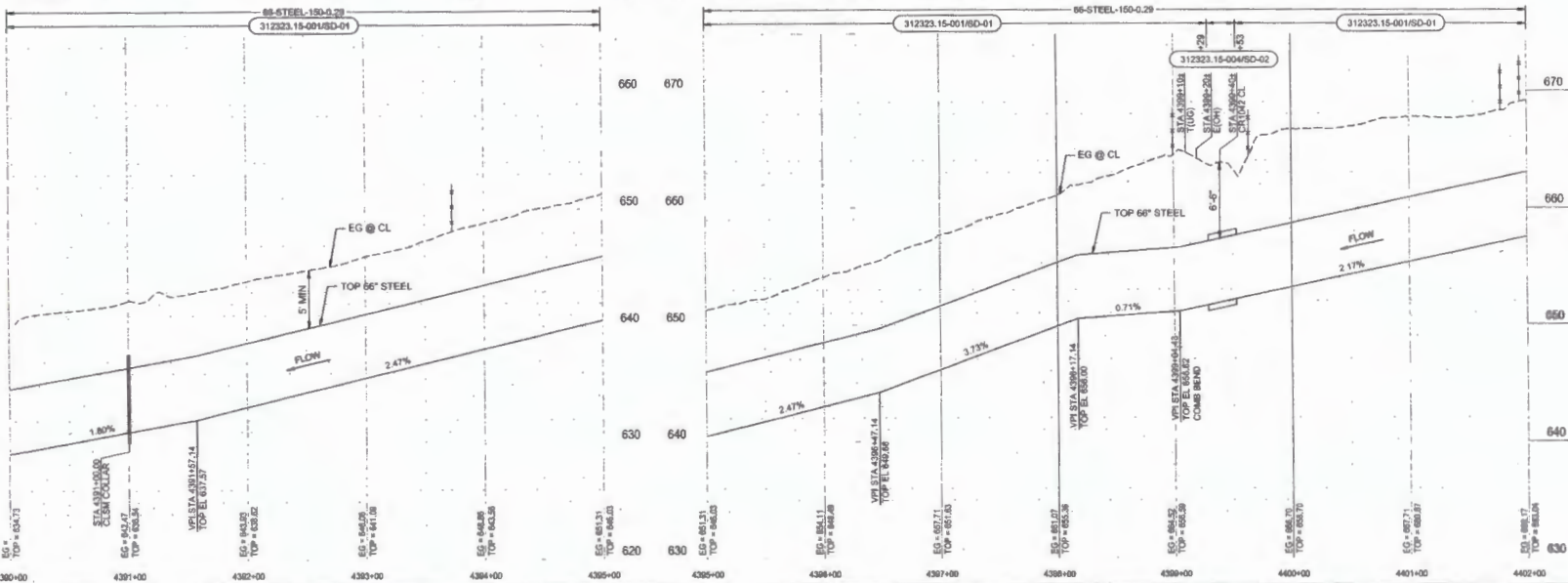
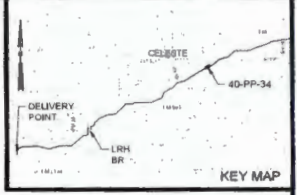
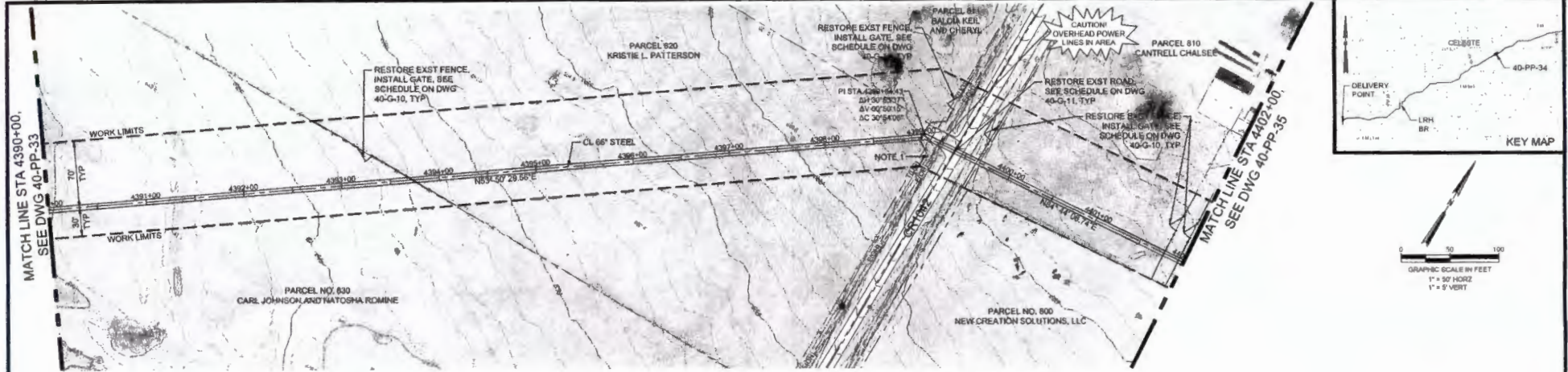
GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager

1042

1042





ISSUED FOR CONSTRUCTION

NO.	DATE	DRWN	CHKD	REVISIONS

JOB NO. 19FAR2001	HC8
SCALE AS SHOWN	JPC
DATE JUNE 2023	AAM
DESIGNED BY:	BIM
DRAWN BY:	
CHECKED BY:	
APPROVED BY:	

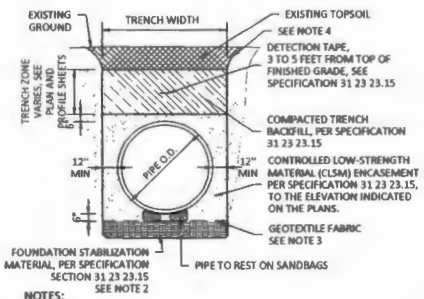
UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE
 40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
 PIPELINE PLAN AND PROFILE
 STA 4390+00 TO STA 4402+00

Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 2986



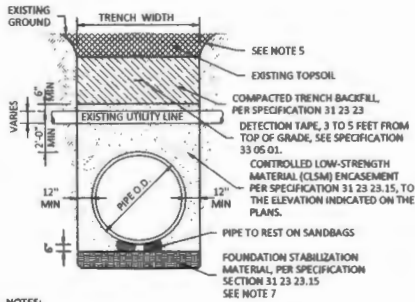
PRINT DATE	6/28/2023
SHEET	40-PP-34
REG	50

TEXAS REGISTERED ENGINEERING FIRM F-13
3/4/2023 8:59 AM C:\Users\blanman\OneDrive\Documents\Projects\2023\03\15-006-01\1111 - 3\Drawings\Project Files\UFD STD L\Plumber\STANDARD DETAILS\CLSM ENCAS. Detail A.dwg blman



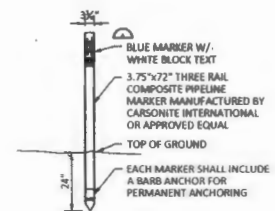
- NOTES:**
- SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
 - INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



- NOTES:**
- SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
 - THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT.
 - THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (8) DAYS PRIOR TO CROSSING THE UTILITY.
 - FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASEMENT ON PROPOSED PIPE TO 5' ON EACH SIDE OF UTILITY CROSSING.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
 - IF THE CROSSING UTILITY IS LESS THAN 6-INCHES AND 8 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.

(BY OPEN CUT)
UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



- NOTES:**
- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 LF ALONG PIPELINE ALIGNMENT.
 - EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTRWD (972) 219-1228, STA XXX-XXX" ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

JOB NO XXX
SCALE: AS SHOWN
DATE: SEPTEMBER 2023
DESIGNED BY: CLP
DRAWN BY: FJC
CHECKED BY: CLP
APPROVED BY: CRM



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



REVISION DATE
03/09/2023

SHEET
SD-02

SEC.

DISCUSSION: This standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the consequences of this standard or other formats or for contractor-related risks or damages resulting from its use.

DATE:
FILE:

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.
- Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 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 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.
- Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC(1)-21			
FILED 4-03 9-07 5-10	DATE 7-13 8-14 5-21	BY [Blank] [Blank] [Blank]	TITLE [Blank] [Blank] [Blank]



18,498-4

1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

FILED FOR RECORD
at 12:30 o'clock 9 M

11/8/2023

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

NOV 28 2023

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By [Signature]

RE: CR 1043 Road Crossing

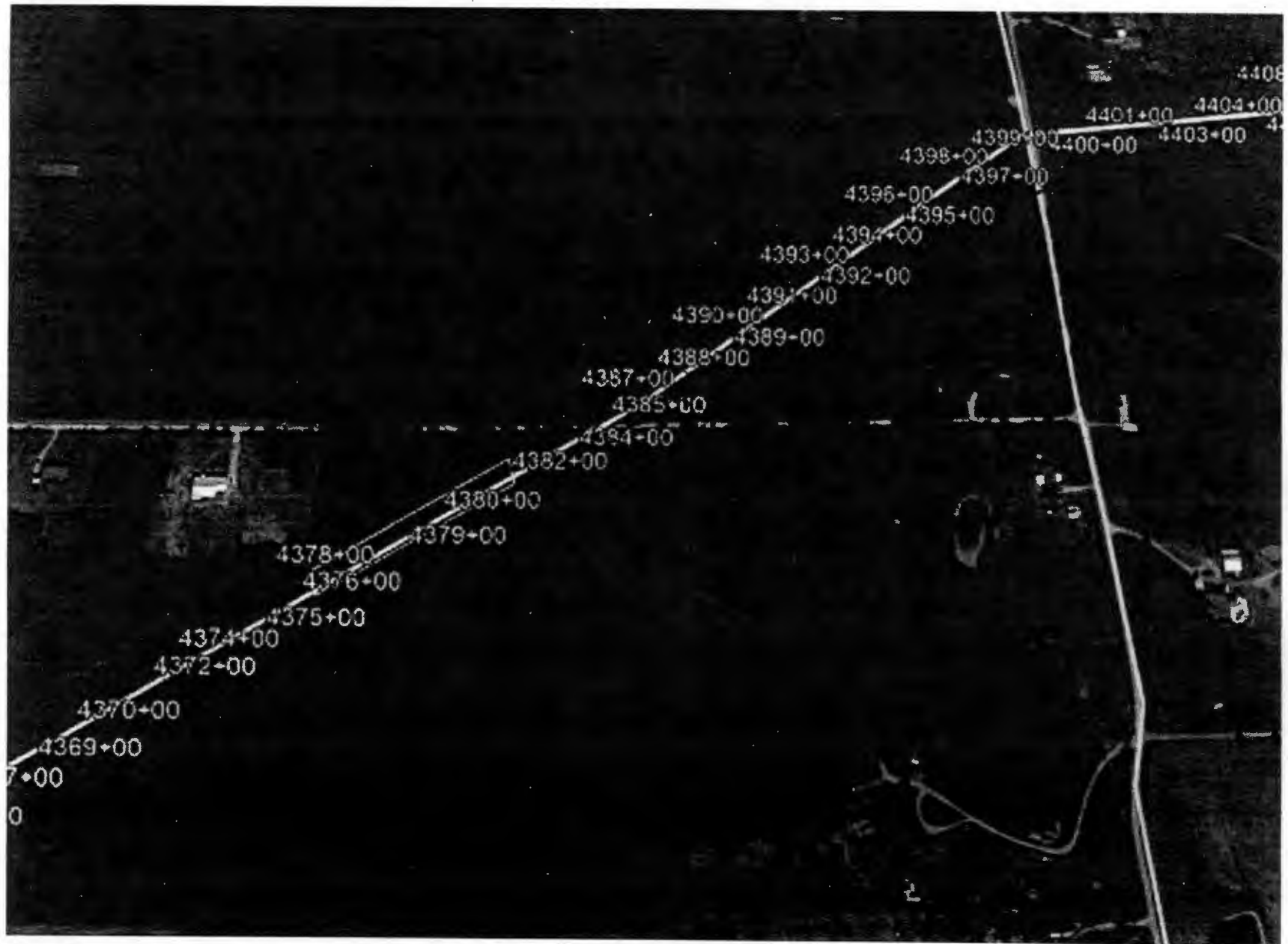
Dear Hunt County,

McKee Utilities is seeking permission from Hunt County to Cross County Road ^{SB}~~1088~~¹⁰⁴³ with the Lake Ralph Hall Pipeline. This work is anticipated to start on 11/22/2023. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signs. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

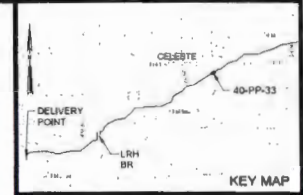
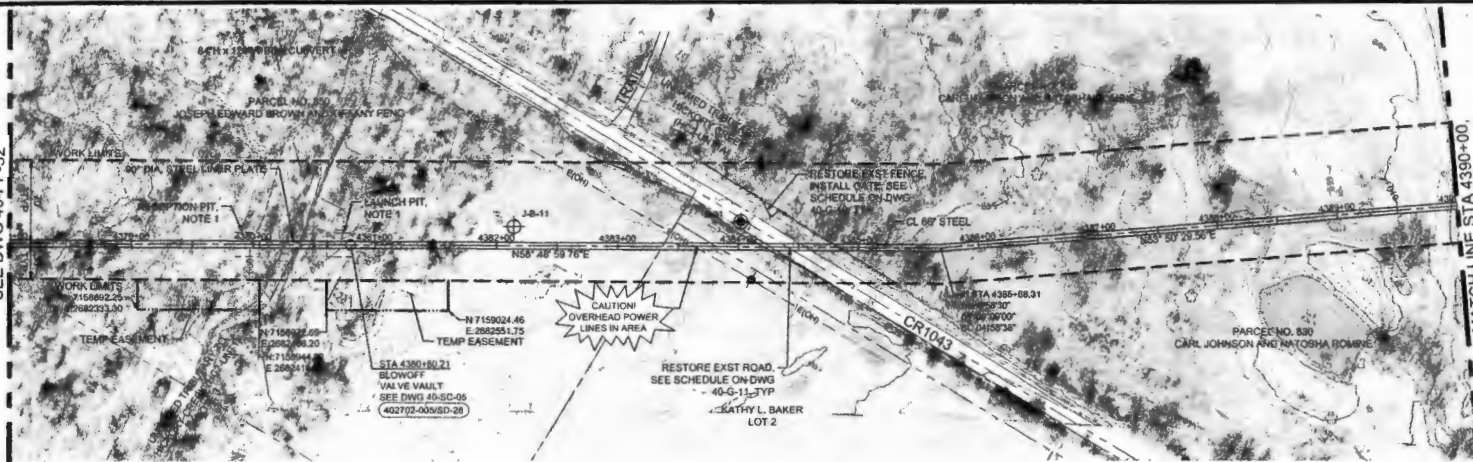
GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager

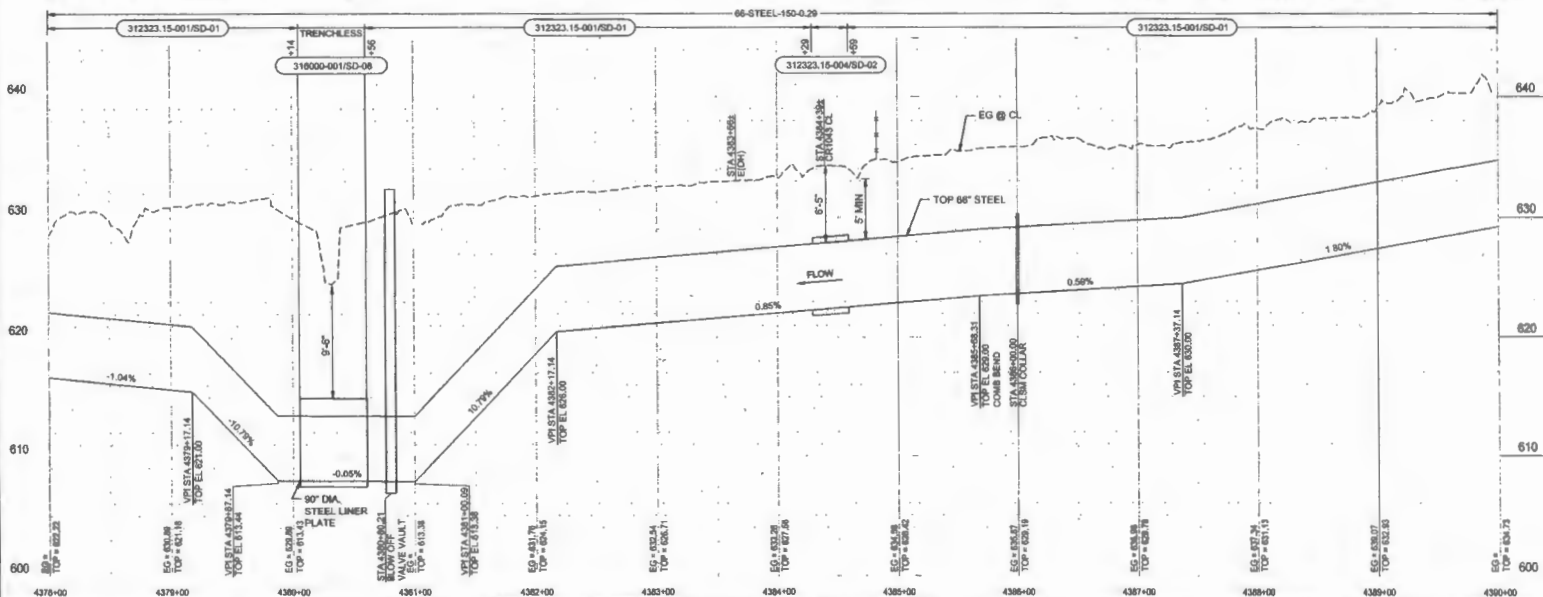


MATCH LINE STA 4378+00.
SEE DWG 40-PP-32

MATCH LINE STA 4390+00.
SEE DWG 40-PP-34



- NOTES:
1. CONTRACTOR SHALL VERTICALLY SHORE TRENCHLESS LAUNCH AND RECEPTION PITS AT END OF CASING.
 2. SEE TRENCHLESS CROSSING DETAILS ON SHEET 40-TC-06.
 3. UNKNOWN TRIBUTARY TO HICKORY CREEK CLASSIFIED AS PERENNIAL PIPELINE CROSSING THEREFORE REQUIRED TO BE OF TRENCHLESS CONSTRUCTION PER US ARMY CORPS OF ENGINEERS (USACE) SECTION 404 PERMIT AUTHORIZATION, DATED 01/27/2020 LAKE RALPH HALL REGIONAL WATER SUPPLY RESERVOIR PROJECT (SWF-2003-00336).



ISSUED FOR CONSTRUCTION

NO	DATE	DRWN	CHKD	REVISIONS

JOB NO. WFR0300	SCALE AS SHOWN	
DATE: JUNE 2023	DESIGNED BY: HCS	
DRAWN BY: JPC	CHECKED BY: AAM	
APPROVED BY: BME		

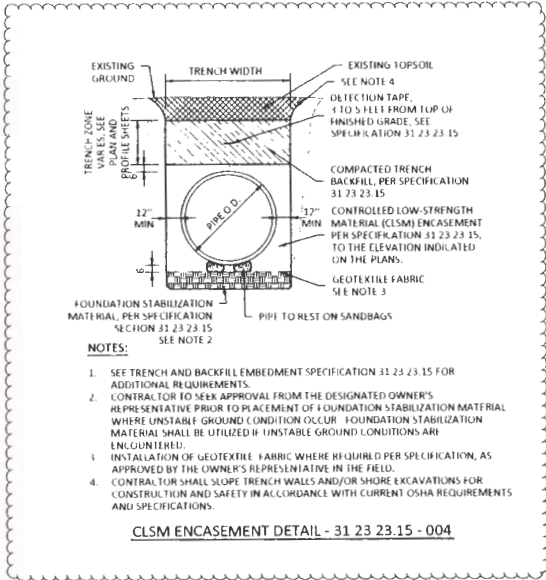
UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
STA 4378+00 TO STA 4390+00

Jacobs
TEXAS REGISTERED ENGINEERING FIRM 2066

PROFIT DATE: 6/28/2023
SHEET: 40-PP-33
SEC: 49

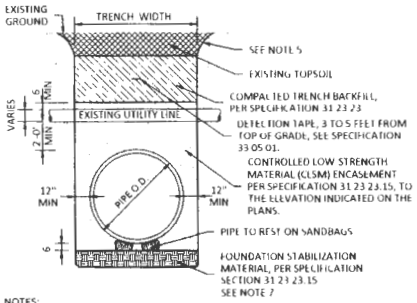
TEXAS REGISTERED ENGINEERING FIRM # 13 5/8/2023 8:59 AM C:\Users\lba_maha\Documents\Upper Trinity\Program Standard Details\02.dwg, Drawn by



NOTES:

1. SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
3. INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
4. CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

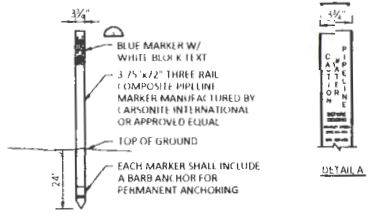
CLSM ENCASUREMENT DETAIL - 31 23 23.15 - 004



NOTES:

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UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



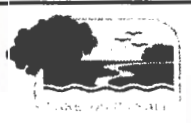
NOTES:

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PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

JOB NO. XXX
SCALE AS SHOWN
DATE: SEPTEMBER 2022
DESIGNED BY: CLP
DRAWN BY: FJC
CHECKED BY: CLP
APPROVED BY: CM



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE
PROGRAM STANDARD DETAILS SHEET 2
CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



LAN Lockwood, Andrews & Newnam, Inc.
PLUMBER



REVISION LINE TO
03/09/2023
SHEET
SD-02
SFD

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practices Act," No. 90.001, of the Texas Constitution, which requires that all standards be approved by the State Board of Engineering Examiners. The use of this standard is not intended to be construed as a warranty, express or implied, by the State Board of Engineering Examiners for the use of this standard or for the results or damages resulting from its use.

DATE:
 FILE:

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DEPARTMENTAL MATERIAL SPECIFICATIONS (DMS)
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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

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC(1)-21			
4-03 7-13 9-07 8-14 5-10 5-21	0121 0122 0123	0124 0125 0126	0127 0128 0129



18,498-7

1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/8/2023

NOV 28 2023

RE: CR 1088 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

Dear Hunt County,

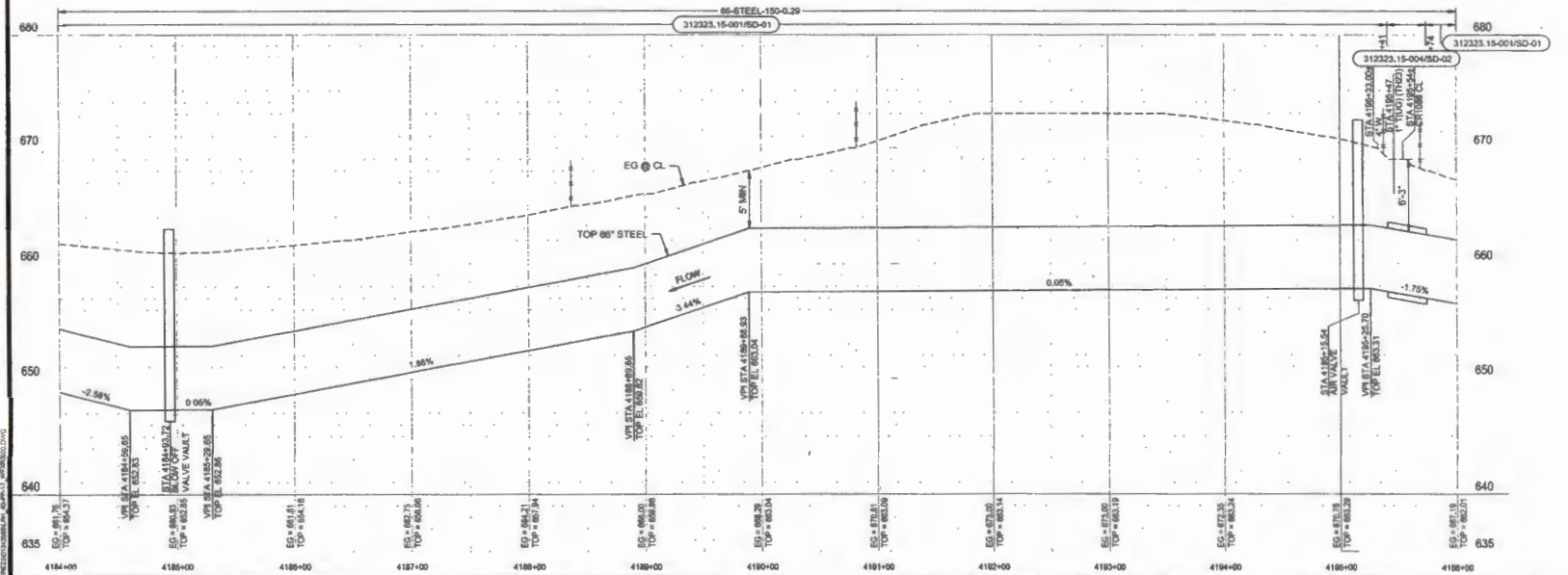
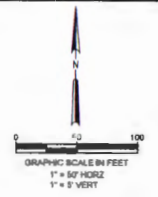
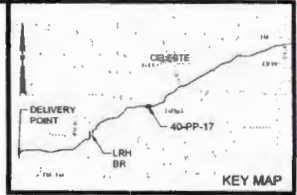
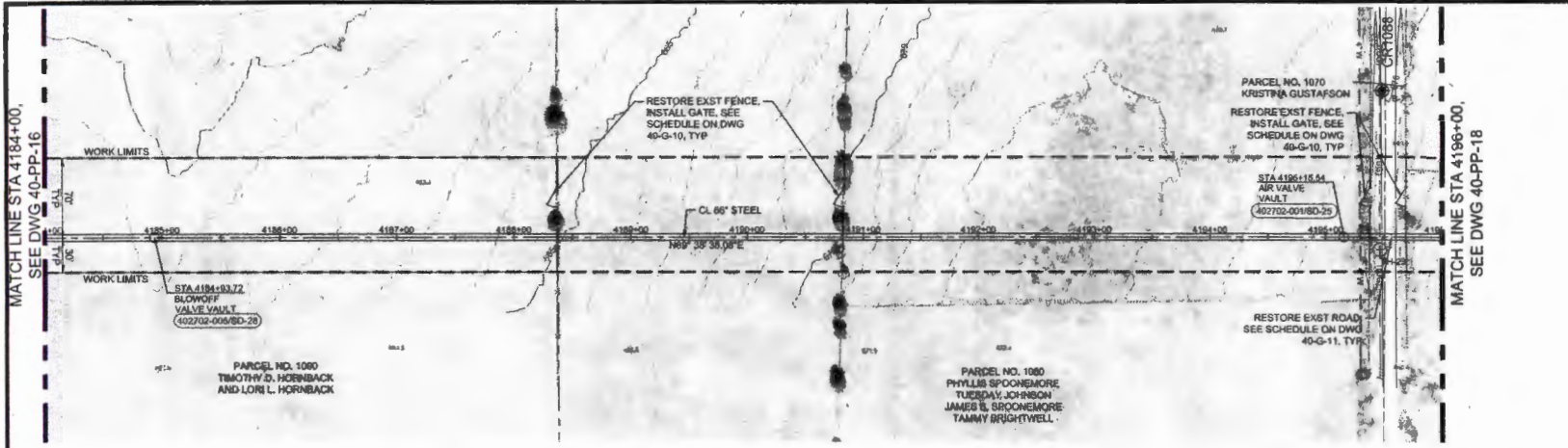
McKee Utilities is seeking permission from Hunt County to Cross County Road 1088 with the Lake Ralph Hall Pipeline. This work is anticipated to start on 11/16/2023. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signs. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager





ISSUED FOR CONSTRUCTION

NO.	DATE	DRWN	CHKD	REVISIONS

JOB NO. WFR2009
 SCALE: AS SHOWN
 DATE: APR 2013

DESIGNED BY: HCB
 DRAWN BY: JPC
 CHECKED BY: AAM
 APPROVED BY: BAI

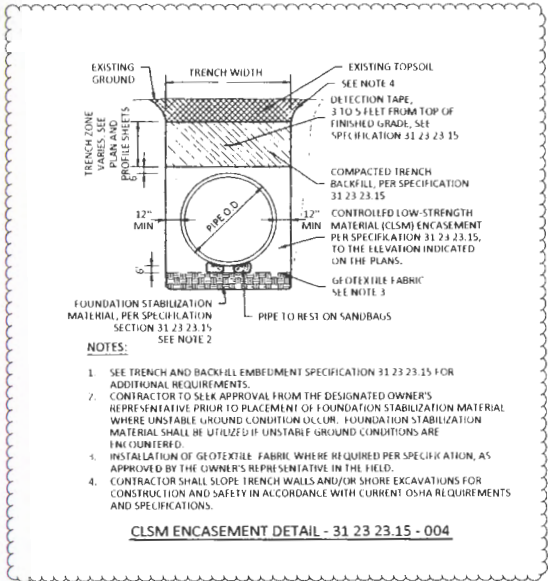
UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
 PIPELINE PLAN AND PROFILE
 STA 4184+00 TO STA 4196+00

Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 2866

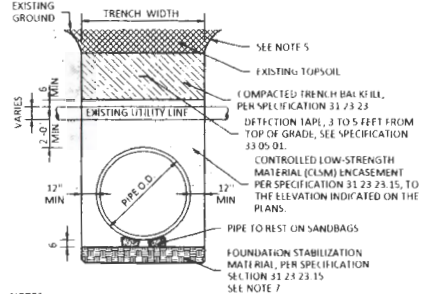
PRINT DATE: 6/28/2013
 SHEET: 40-PP-17
 BGS: 33

TEXAS REGISTERED ENGINEERING FIRM # 12
 3/07/2023 8:59 AM C:\Users\blueman\OneDrive\Documents\Project Files\PROJ STD DTL\Plummer Standard Detail-001.dwg Blueman



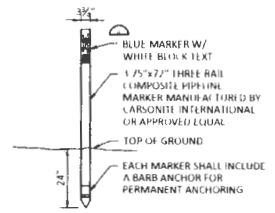
- NOTES:**
1. SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23 15 FOR ADDITIONAL REQUIREMENTS.
 2. CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
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CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



- NOTES:**
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(BY OPEN CUT)
UTILITY LINE CROSSING DETAIL - 02 10 01 - 001

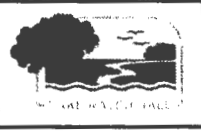


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PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

DATE	BY	CHKD	APP'D



UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
 CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



REVISION DATE	03/09/2023
SHEET	SD-02
REQ.	

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DATE: _____
 FILE: _____

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- 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.
- Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
- 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 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.
- Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

- Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
- Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

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

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC(1)-21			
REV	DATE	BY	CHKD
001	01/09	...	...
002	07/09	...	...
003	07-13	...	...
004	09-07	...	...
005	05-10	...	...
SHEET NO. SD-45			



1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

18,498-8

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock 9 M 11/16/2023

NOV 28 2023

BECKY LANDRUM
County Clerk, Hunt County, Tex.

By 

RE: CR 1089 Road Crossing

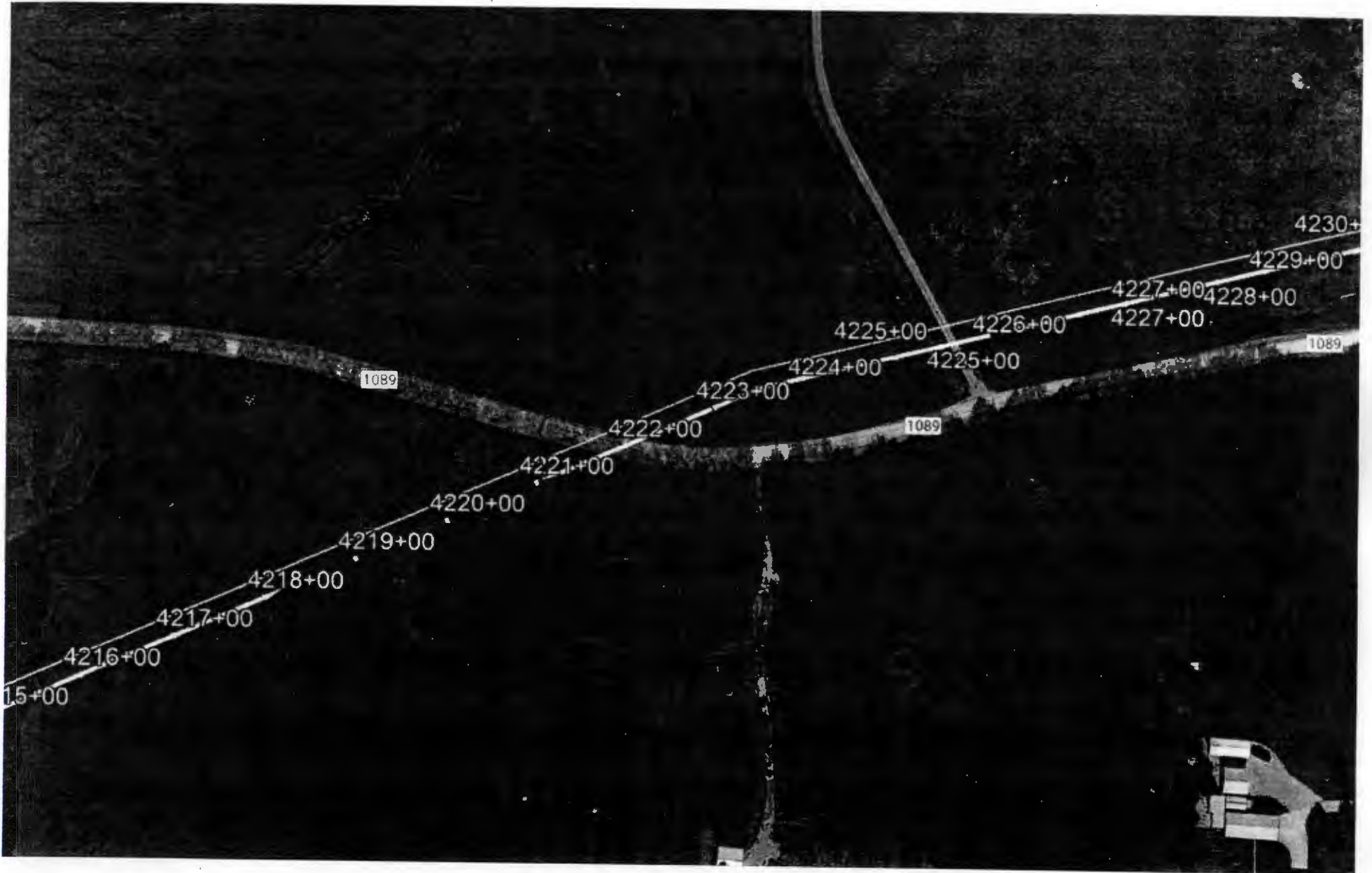
Dear Hunt Conty,

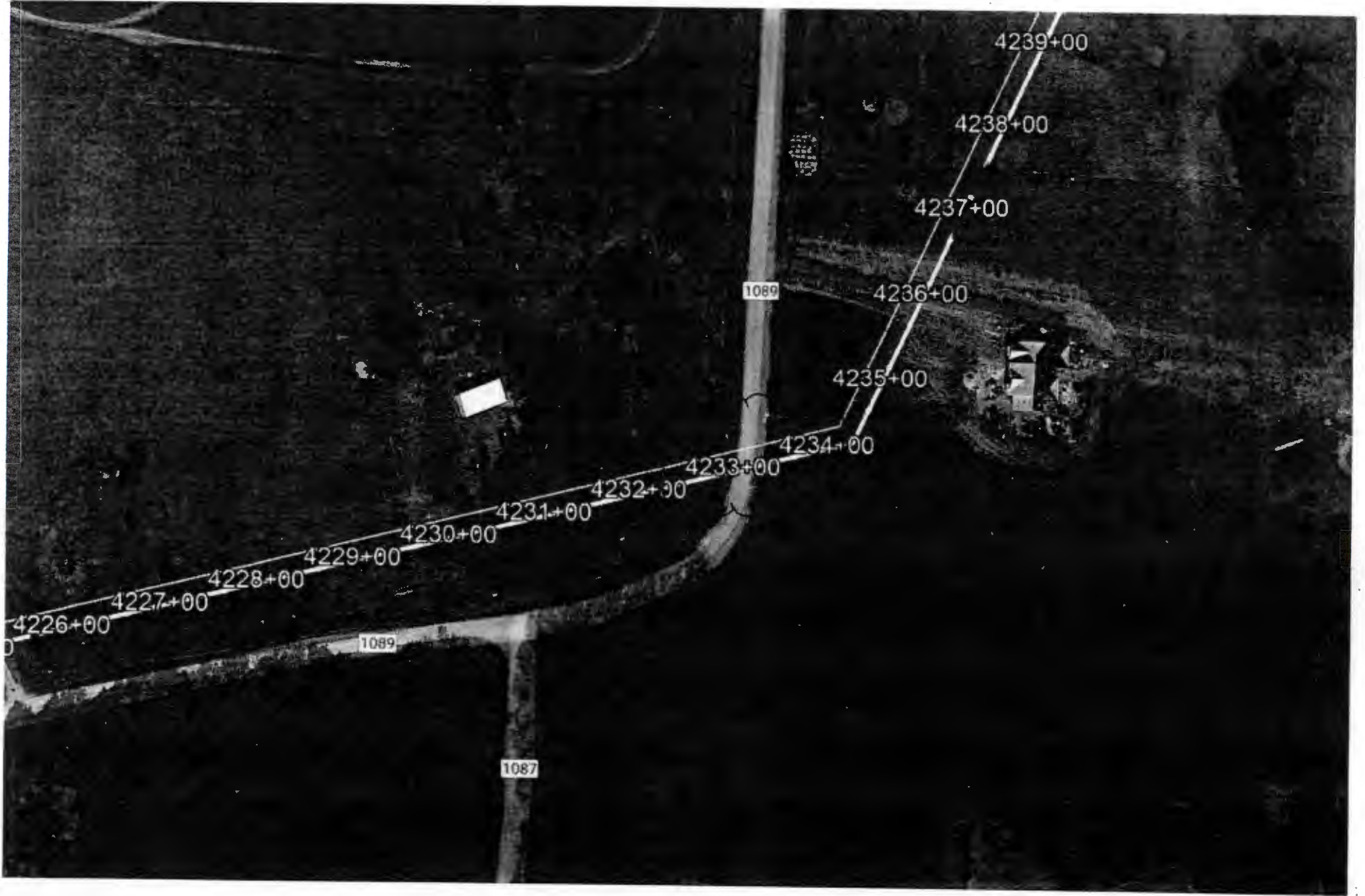
McKee Utilities is seeking permission from Hunt County to Cross County Road 1089 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

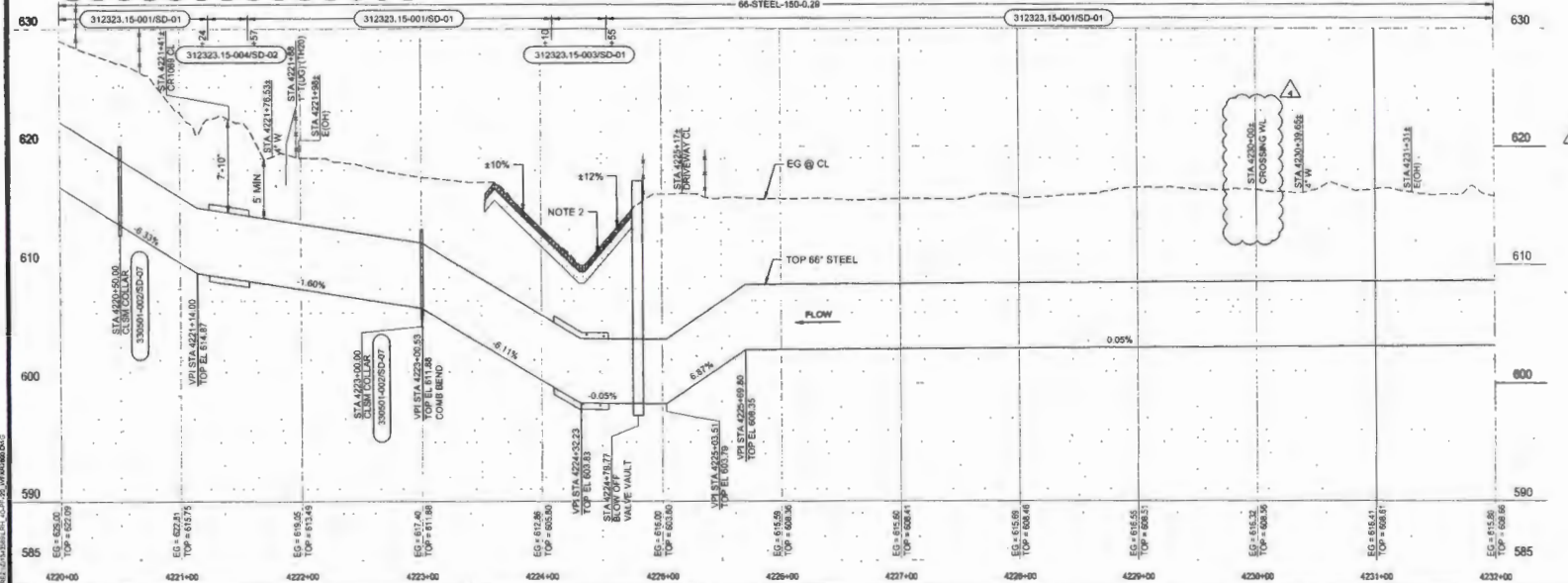
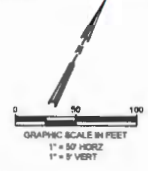
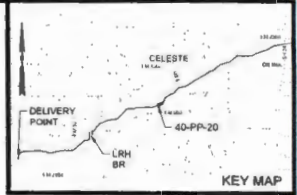
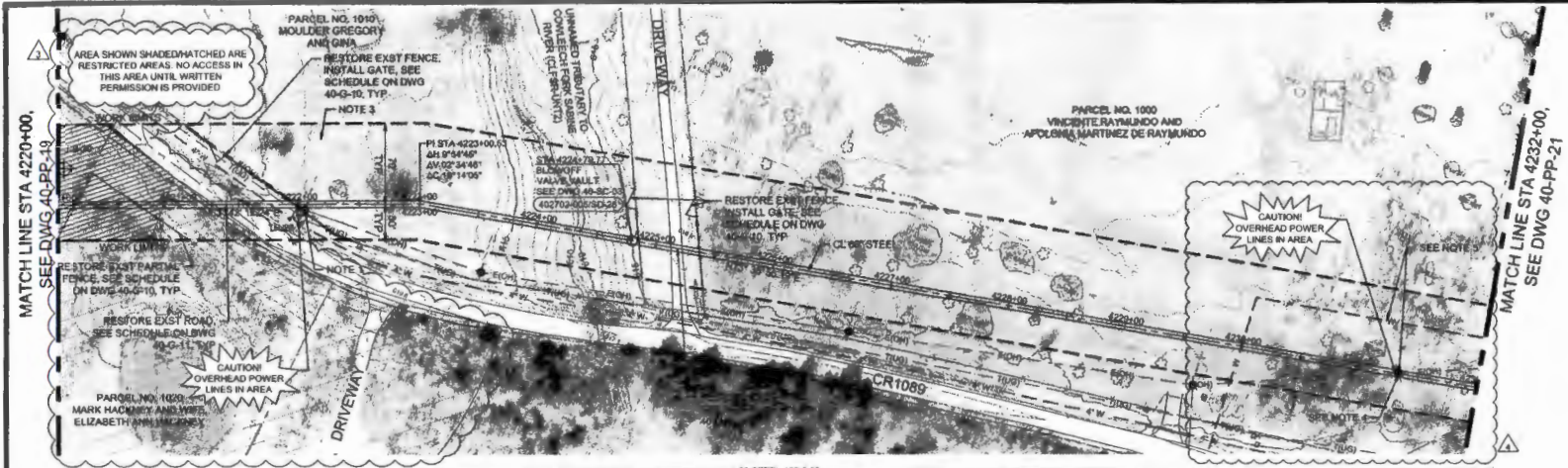
Sincerely,

GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager







- NOTES:**
1. CONTRACTOR SHALL COORDINATE POWER POLE RELOCATION WITH THE UTILITY OWNER AND PAY ALL COSTS FOR RELOCATION (TREC 8PC-J 87-840).
 2. SEE DETAIL (330501-004R0-17) FOR STREAM RESTORATION. ALL GRADING BELOW ORDINARY HIGH WATER MARK SHALL BE RETURNED TO PRE-CONSTRUCTION ELEVATIONS, UNLESS OTHERWISE SHOWN.
 3. ABOVE GROUND APPURTENANCES NOT ALLOWED TO BE PLACED IN THIS AREA.
 4. CONTRACTOR SHALL COORDINATE POWER POLE RELOCATION WITH THE UTILITY OWNER AND PAY ALL COSTS FOR RELOCATION.
 5. EXISTING WATERLINE UTILITY AND POWER POLE SHOWN ARE NOT FIELD VERIFIED. RELOCATE WATERLINE IF IN CONFLICT WITH RWPL. PROVIDE TEMPORARY WATER SERVICE IF SHUTDOWN IS TO EXCEED A 2-HOUR DURATION.

3	6/5/23	JPC	HCB	REVISION FOR PFC SUBMITTAL
4	9/1/23	JPC	HCB	REVISION FOR WORK CHANGE DIRECTIVE 01
NO.	DATE	DRWN	CHKD	REVISIONS

JOB NO. WPHR2800
SCALE: AS SHOWN
DATE: SEPTEMBER 2023

DESIGNED BY: HCB
DRAWN BY: JPC
CHECKED BY: AAM
APPROVED BY: BMH

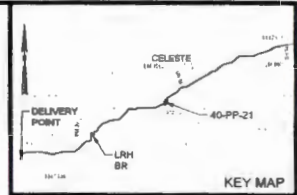
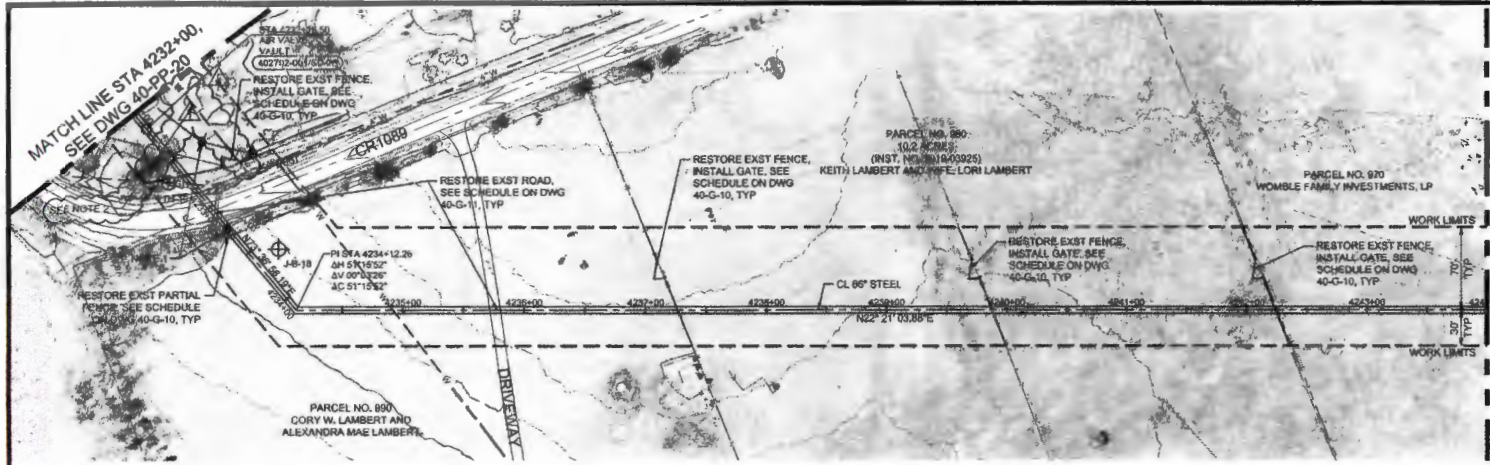
UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
STA 4220+00 TO STA 4232+00

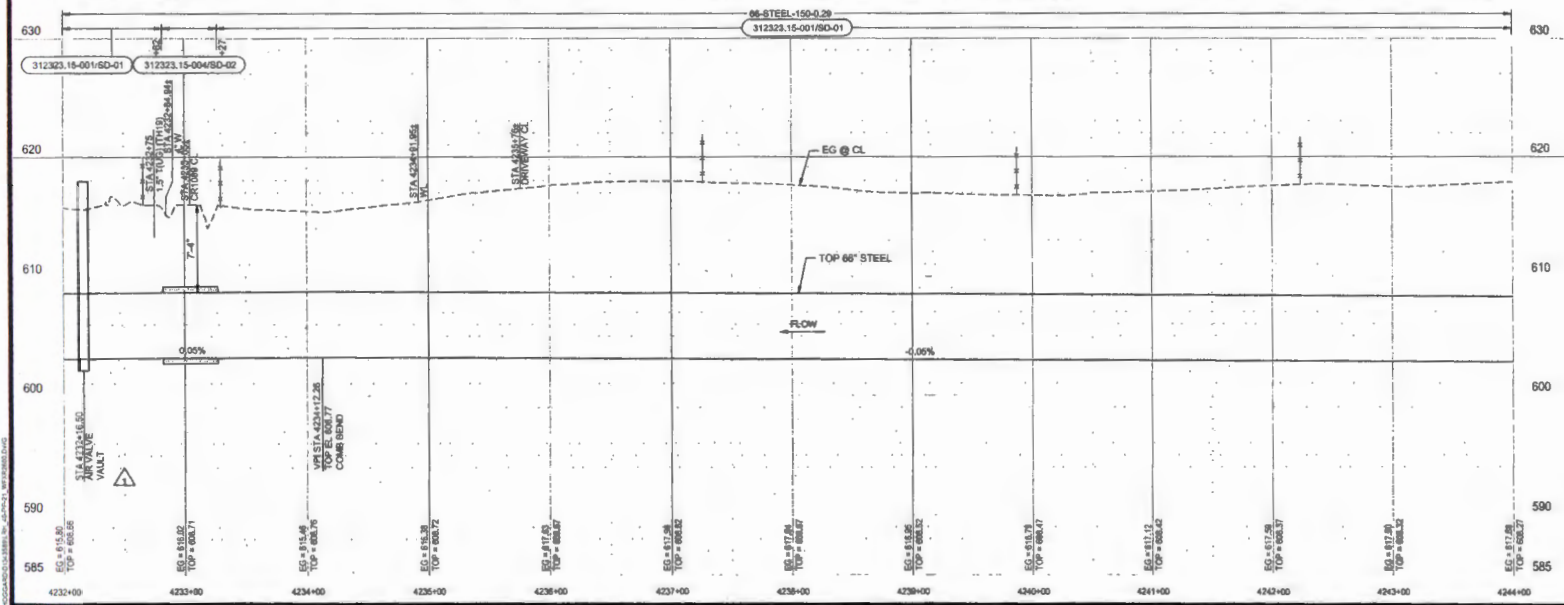
Jacobs
TEXAS REGISTERED ENGINEERING FIRM 2988

ISSUED FOR CONSTRUCTION

PRINT DATE: 9/06/2023
SHEET: 40-PP-20
SHEET NO.: 36



MATCH LINE STA 4244+00,
SEE DWG 40-PP-22



- NOTES
- CONTRACTOR SHALL COORDINATE POWER POLE RELOCATION WITH THE UTILITY OWNER AND PAY ALL COSTS FOR RELOCATION (ON/CDR)
 - EXISTING WATERLINE UTILITY AND POWER POLE SHOWN ARE NOT FIELD VERIFIED. RELOCATE WATERLINE IF IN CONFLICT WITH RWPL. PROVIDE TEMPORARY WATER SERVICE IF SHUTDOWN IS TO EXCEED A 2-HOUR DURATION.

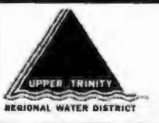
ISSUED FOR CONSTRUCTION

1	4/24/23	CEH	HCB	ADDENDUM #1 - R/W MAINWAY RELOCATION	JOB NO. WFR2309
4	9/1/23	JPC	HCB	REVISION FOR WORK CHANGE DIRECTIVE 01	SCALE AS SHOWN
					DATE: SEPTEMBER 2023
					DESIGNED BY: HCB
					DRAWN BY: JPC
					CHECKED BY: AAM
					APPROVED BY: DME



UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
STA 4232+00 TO STA 4244+00

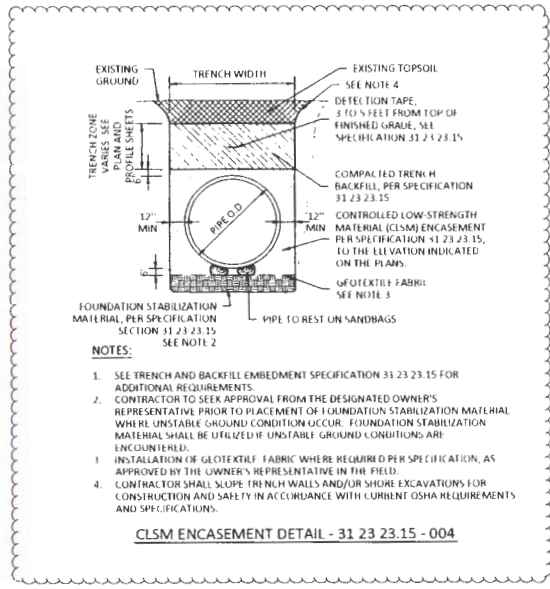


Jacobs
TEXAS REGISTERED ENGINEERING FIRM 2166



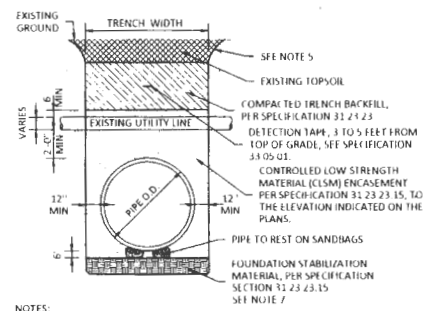
PRINT DATE: 9/06/2023
SHEET: 40-PP-21
REG: 37

TEXAS REGISTERED ENGINEERING FIRM F-17 3/8 2023 8:59 AM C:\Users\lbauman\OneDrive\Documents\Projects\2023\STANDARD DETAILS\02-446-BB\dwg



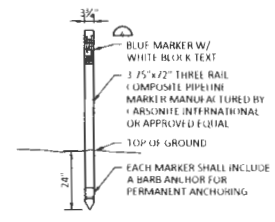
- NOTES:**
- SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
 - INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



- NOTES:**
- SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
 - THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT.
 - THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (3) DAYS PRIOR TO CROSSING THE UTILITY.
 - FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASEMENT ON PROPOSED PIPE TO 5' ON EACH SIDE OF UTILITY CROSSING.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
 - IF THE CROSSING UTILITY IS LESS THAN 6-INCHES AND 3 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.

UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



- NOTES:**
- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 FT ALONG PIPELINE ALIGNMENT.
 - EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION: "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTILITY (972) 219 1278, STA XXX+XX" ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

JOB NO. 444
 SCALE AS SHOWN
 DATE: SEPTEMBER 2022
 DESIGNED BY: JLF
 DRAWN BY: JLF
 CHECKED BY: JLF
 APPROVED BY: LRW



UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE
 PROGRAM STANDARD DETAILS SHEET 2
 CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



LAN Lockwood, Andrews & Newnam, Inc.
 PLUMMER



REVISION DATE:
 03/09/2023
 SHEET:
 SD-02
 REV:

DISCLAIMER: This document is provided by the Texas Department of Transportation (TxDOT) for informational purposes only. It is not intended to be used for any purpose other than that for which it was prepared. TxDOT assumes no responsibility for the content of this document or for any errors or omissions. The user assumes all liability for its use.

DATE:
FILE:

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. 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).
2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. 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 NOTES:

1. 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.
2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

<p>THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov</p>
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

			
<p>BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS</p> <p>BC (1) - 21</p>			
REV.	DATE	BY	CHKD.
4-03	7-13		
9-07	8-14		
5-10	5-21		



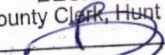
1700 Swift Street North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

18,498-9

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/16/2023

NOV 28 2023

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

RE: CR 1098 Road Crossing

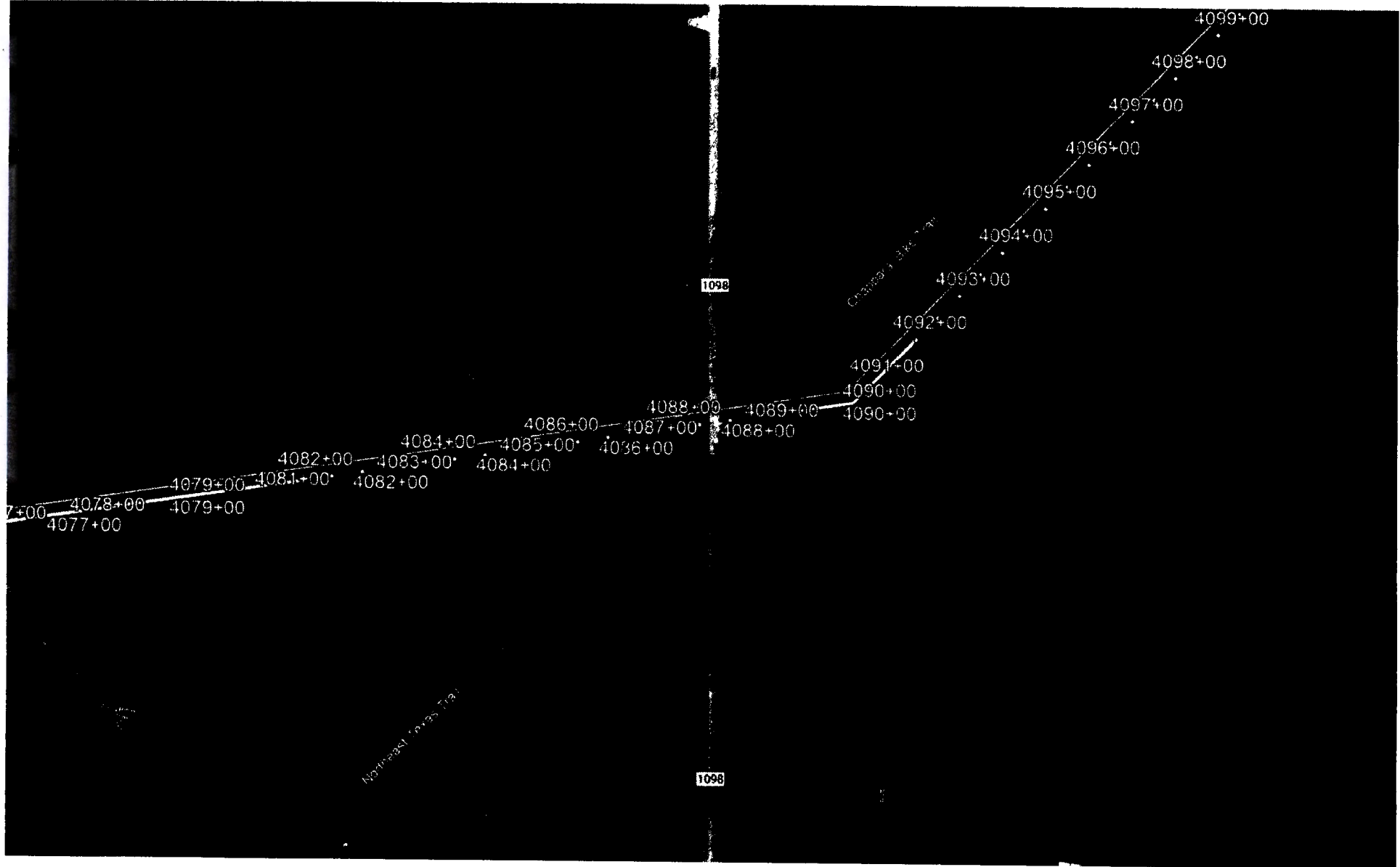
Dear Hunt Conty,

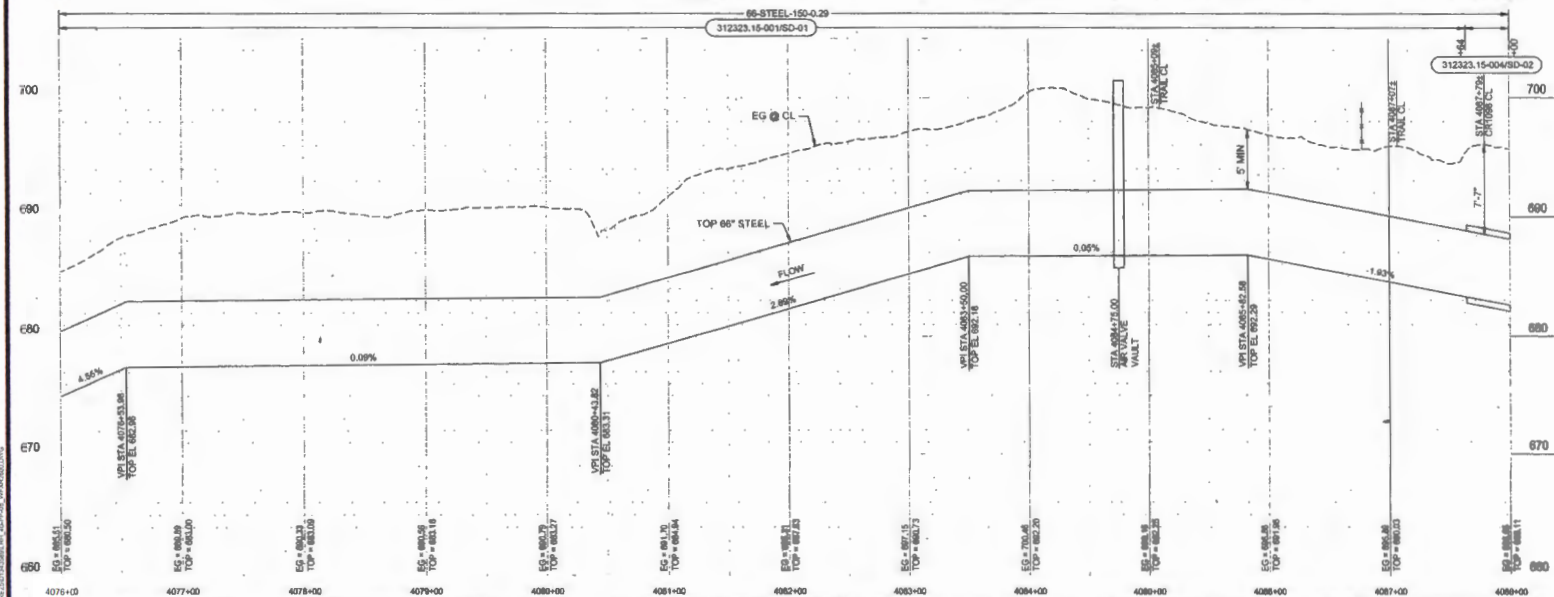
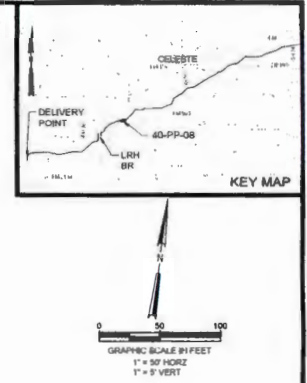
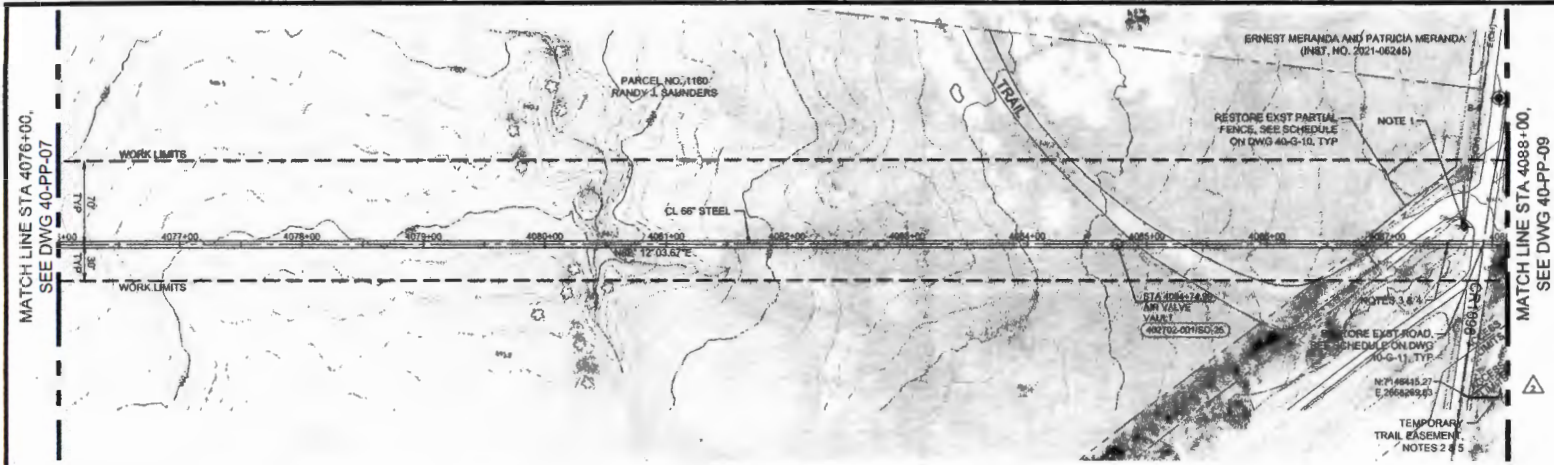
McKee Utilities is seeking permission from Hunt County to Cross County Road 1098 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager



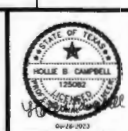
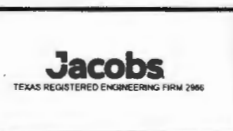


- NOTES:**
- CONTRACTOR SHALL COORDINATE POWER POLE RELOCATION WITH THE UTILITY OWNER AND PAY ALL COSTS FOR RELOCATION.
 - CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A TEMPORARY BYPASS TRAIL FOR PEDESTRIANS TO PASS THROUGH AT ALL TIMES.
 - PIPE CONSTRUCTION FROM STA 4087+50 TO 4088+50 MUST BE INSTALLED AND BACKFILLED WITHIN TWO WEEKS, AND PERMANENT BIKE TRAIL SHALL BE RESTORED TO EXISTING CONDITIONS.
 - CONTRACTOR SHALL PROVIDE SIGNAGE AND FLAGGERS TO GUIDE PEDESTRIANS, MAINTAINING 100-FT MINIMUM BETWEEN OPEN EXCAVATIONS AND TRAILS.
 - FOLLOWING PERMANENT TRAIL RESTORATION AND PERMANENT TRAIL REOPENING, RESTORE TEMPORARY TRAIL TO EXISTING CONDITIONS.
 - REFER TO DOCUMENT "CITY OF FARMERSVILLE RAILS TO TRAILS; CHAPARRAL BIKE TRAIL LAKE RALPH HALL CROSSING PLAN, UPPER TRINITY REGIONAL WATER DISTRICT, MAY 2023".

2	4/2/23	LEH	BM	ADDENDUM #2 - CHAPARRAL BIKE TRAIL CROSSING
JOB NO. WFR2023				
SCALE AS SHOWN				
DATE: JUNE 30, 23				
DESIGNED BY: HCB				
DRAWN BY: JPC				
CHECKED BY: AMM				
APPROVED BY: BMJ				
NO.	DATE	DRWN	CHKD	REVISIONS

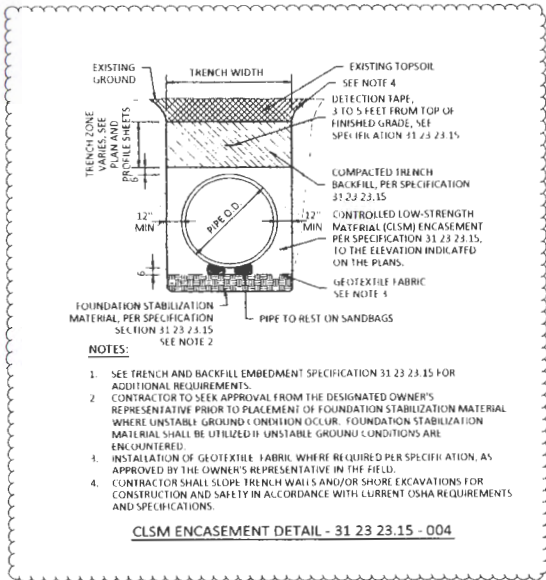


UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE
 40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
PIPELINE PLAN AND PROFILE
 STA 4076+00 TO STA 4088+00



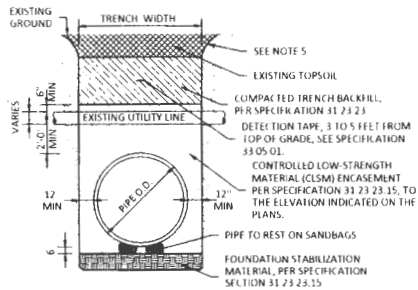
ISSUED FOR CONSTRUCTION
PRINT DATE: 6/28/2023
SHEET: 40-PP-08
NO. 24

TEXAS REGISTERED ENGINEERING FIRM F-13
 2025 RELEASE UNDER E.O. 14176
 C:\Users\blueman\OneDrive\Documents\Projects\2023\23-001\03 (R) Tab 3 (Detail) Project Files\HDS\STD 01\Plummer\STANDARD DETAILS 002-AWG (Blueman)



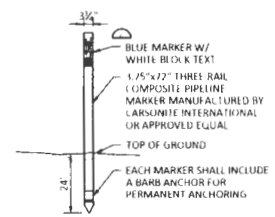
- NOTES:**
- SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
 - INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



- NOTES:**
- SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
 - THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT.
 - THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (3) DAYS PRIOR TO CROSSING THE UTILITY.
 - FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASEMENT ON PROPOSED PIPE TO 5' ON EACH SIDE OF UTILITY CROSSING.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
 - IF THE CROSSING UTILITY IS LESS THAN 6-INCHES AND 3 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.

UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



- NOTES:**
- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 FT ALONG PIPELINE ALIGNMENT.
 - EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION: "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTRWD (974) 219 1228, STA XXX-XX" ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

JOB NO. XXX
 SCALE AS SHOWN
 DATE: SEPTEMBER 2022
 DESIGNED BY: LAF
 DRAWN BY: PAC
 CHECKED BY: LAF
 APPROVED BY: CRM

UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
 CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS

ISSUED DATE
 03/09/2023

SHEET
 SD-02

DATE
 03/09/2023

DISCLAIMER: of this Manual is approved by the Texas Engineering Practice Act. No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the construction of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: FILE:

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. 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).
2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. 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 NOTES:

1. 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.
2. Except in emergency situations, flogger stations shall be illuminated when flogging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

<p>THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov</p>
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

																															
<p>BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS</p>																															
<p>BC (1) - 21</p>																															
<table border="1"> <tr> <td>DATE</td> <td>BY</td> <td>CHKD</td> <td>APP'D</td> <td>REVISED</td> </tr> <tr> <td>4-03</td> <td>7-13</td> <td></td> <td></td> <td></td> </tr> <tr> <td>9-07</td> <td>8-14</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5-10</td> <td>5-21</td> <td></td> <td></td> <td></td> </tr> </table>	DATE	BY	CHKD	APP'D	REVISED	4-03	7-13				9-07	8-14				5-10	5-21				<table border="1"> <tr> <td>NO. TYPED</td> <td>NO. COPIES</td> <td>NO. TOTAL</td> <td>NO. LEFT</td> </tr> <tr> <td>100</td> <td>100</td> <td>200</td> <td>100</td> </tr> </table>			NO. TYPED	NO. COPIES	NO. TOTAL	NO. LEFT	100	100	200	100
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1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

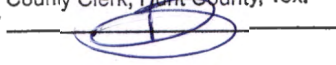
18,498-10

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/8/2023

NOV 28 2023

RE: CR 1100 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

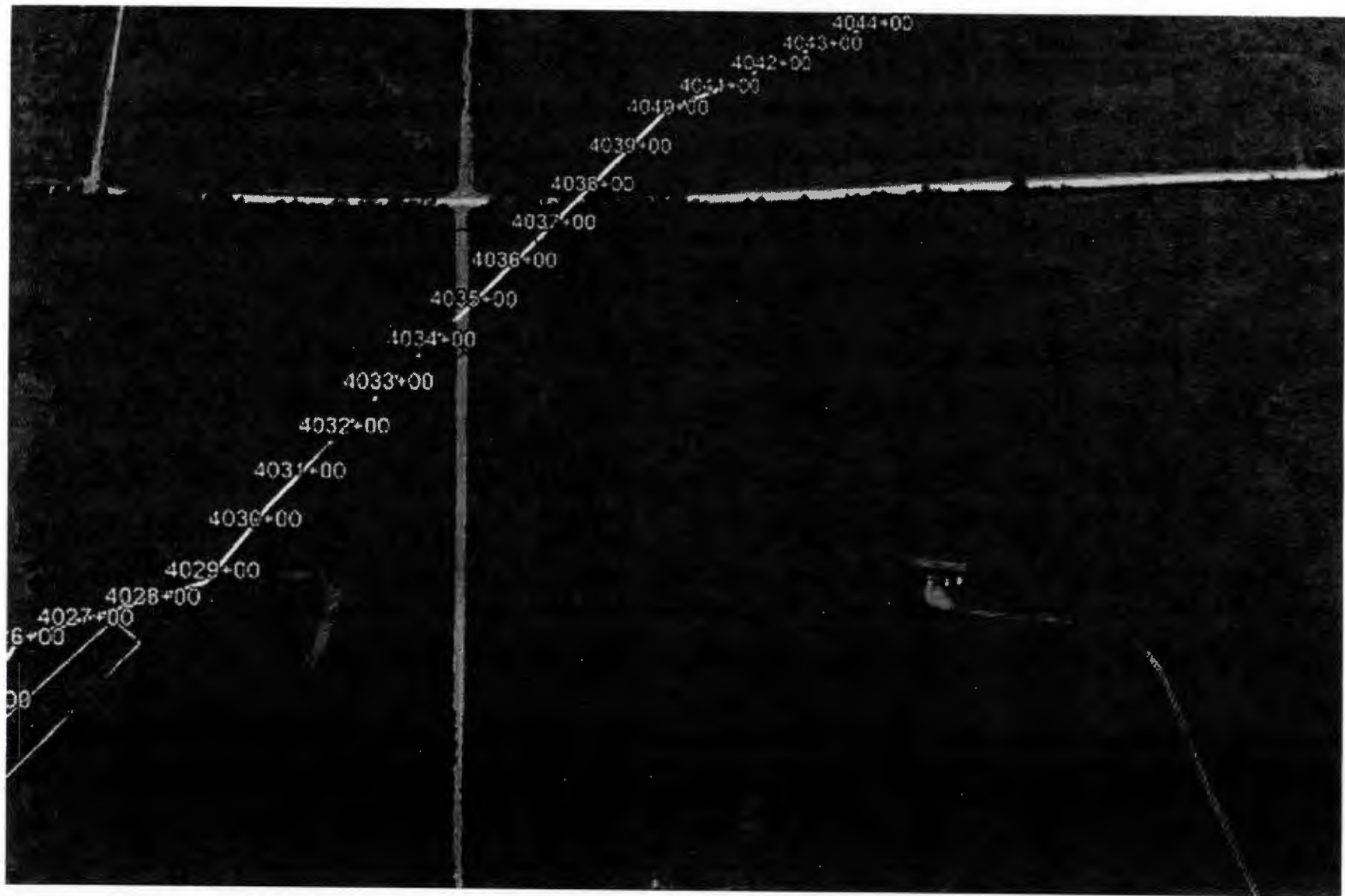
Dear Hunt County,

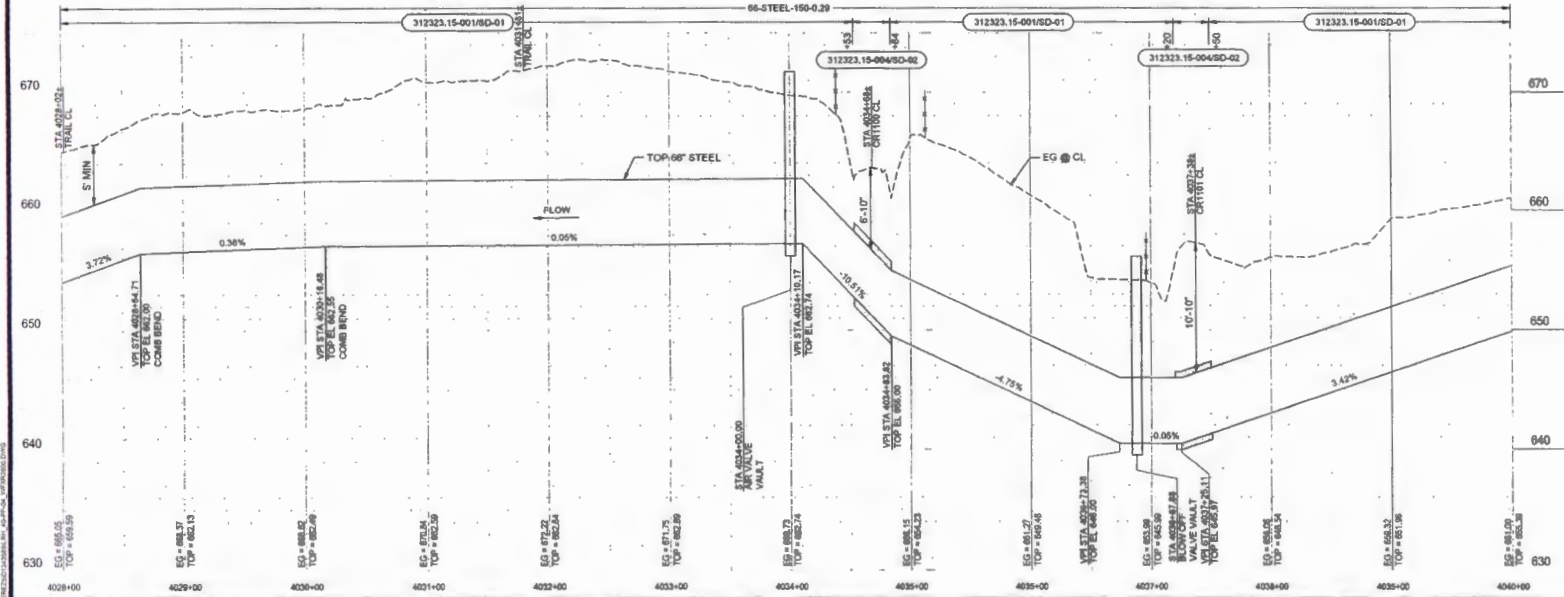
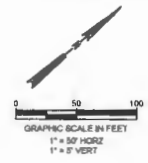
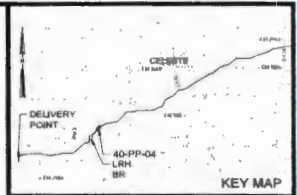
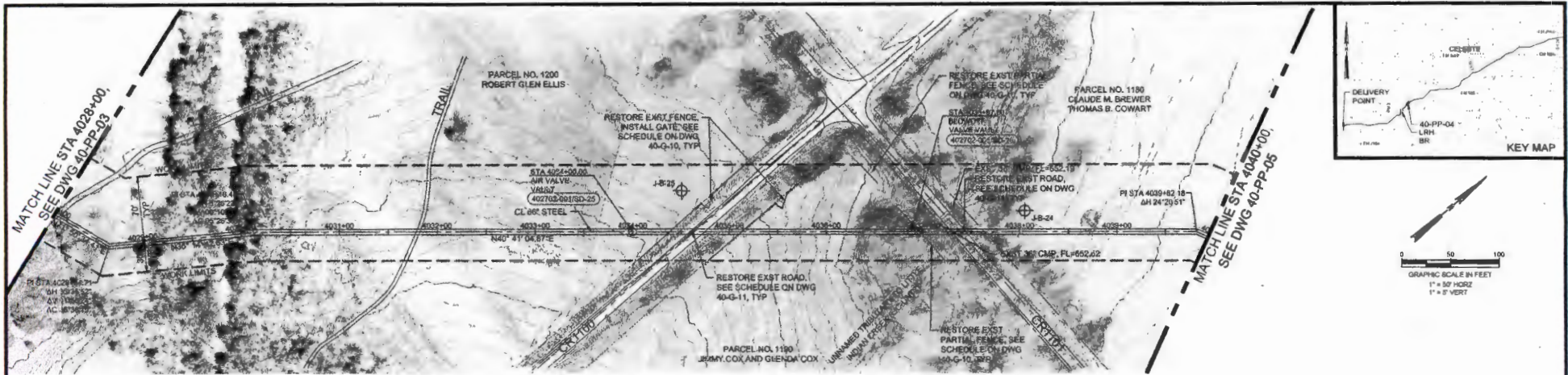
McKee Utilities is seeking permission from Hunt County to Cross County Road 1100 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signs. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.


Andrew Beck
Sr. Project Manager





ISSUED FOR CONSTRUCTION

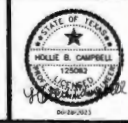
NO.	DATE	BY	CHKD	REVISIONS



UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE
 40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
 PIPELINE PLAN AND PROFILE
 STA 4028+00 TO STA 4040+00

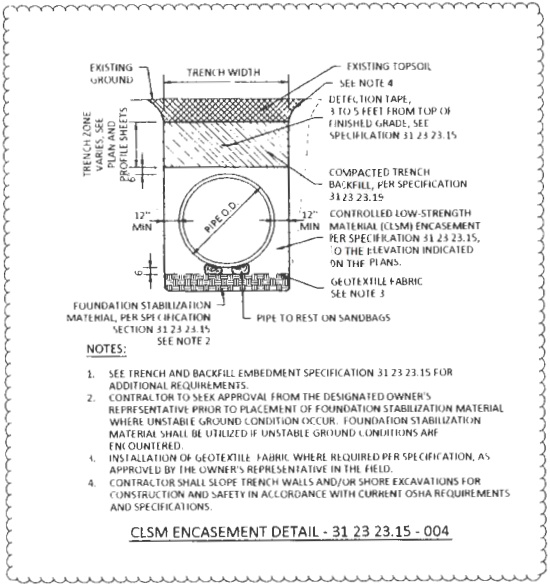


Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 7966

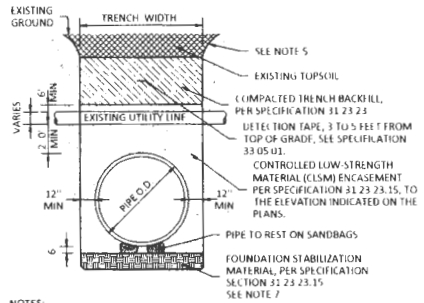


PRINT DATE
 6/28/2023
 SHEET
 40-PP-04
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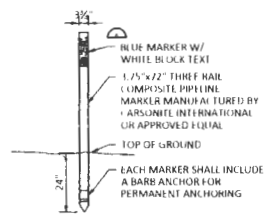
TEXAS REGISTERED ENGINEERING FIRM # 13 3/8/2023 8:59 AM C:\Users\lbauman\OneDrive\Documents\Projects\Upper Trinity\Standard Details\002.dwg - Broumar



CLSM ENCASEMENT DETAIL - 31 23 23.15 - 004



UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



NOTES

- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAILROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 LF ALONG PIPELINE ALIGNMENT.
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PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

DATE	DESCRIPTION

DRAWING AX
 SCALE AS SHOWN
 DATE: SEPTEMBER 2022
 DESIGNED BY: CLF
 DRAWN BY: PJA
 CHECKED BY: CLF
 APPROVED BY: CRM



UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE
 PROGRAM STANDARD DETAILS SHEET 2
 CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS



LAN Lockwood, Andrews & Newnam, Inc.
 PLUMMER



REVISION DATE	03/09/2023
SHEET	SD-02
OF	

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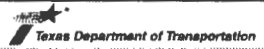

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TRAFFIC ENGINEERING STANDARD SHEETS

			
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC(1)-21			
DATE: 4-03 FILE: 7-13	DATE: 9-07 FILE: 8-14	DATE: 5-10 FILE: 5-21	DATE: 10-11 FILE: 11-11



18,498-11

1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock 1 M 11/8/2023

NOV 28 2023

RE: CR 1101 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

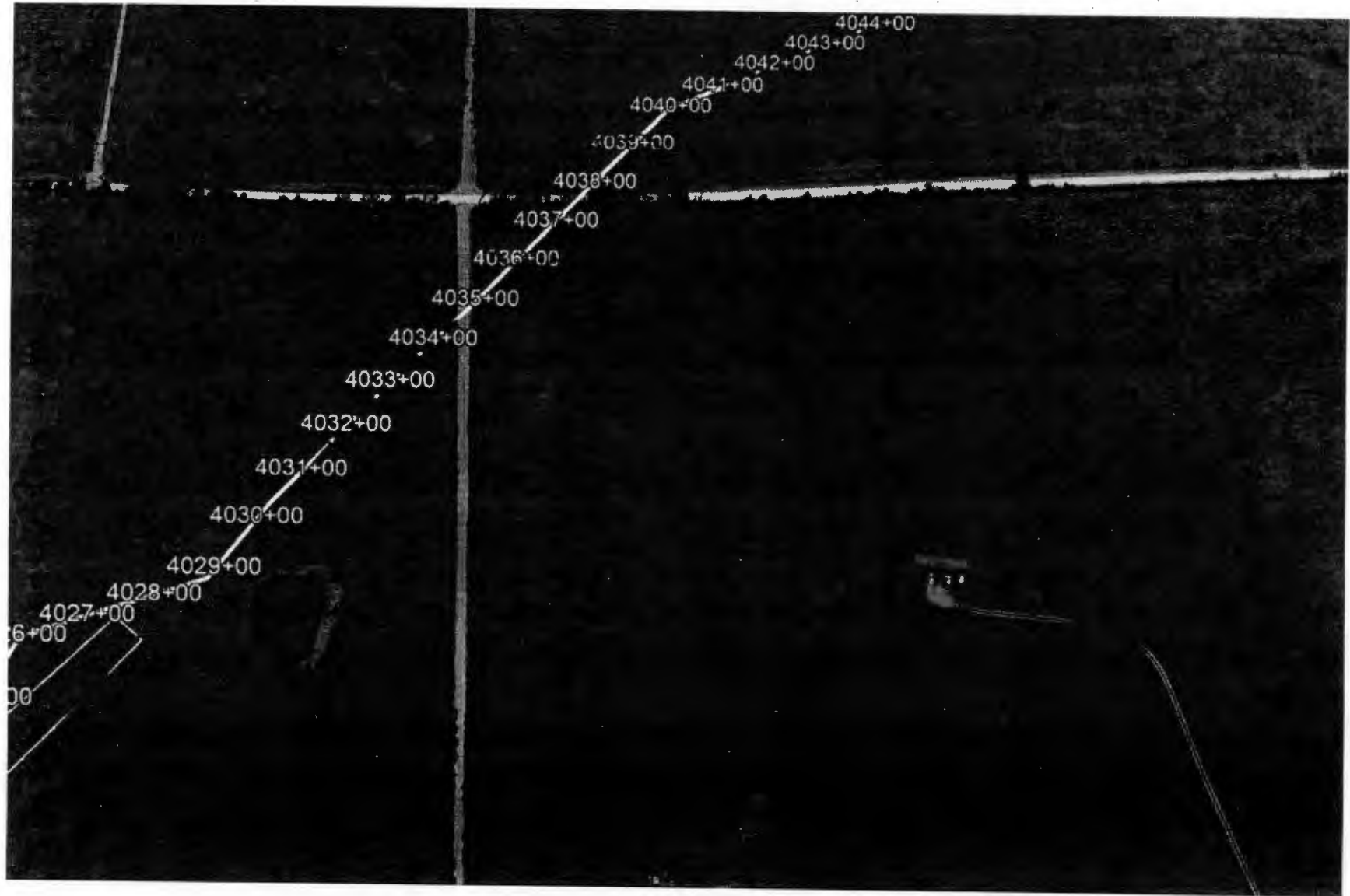
Dear Hunt County,

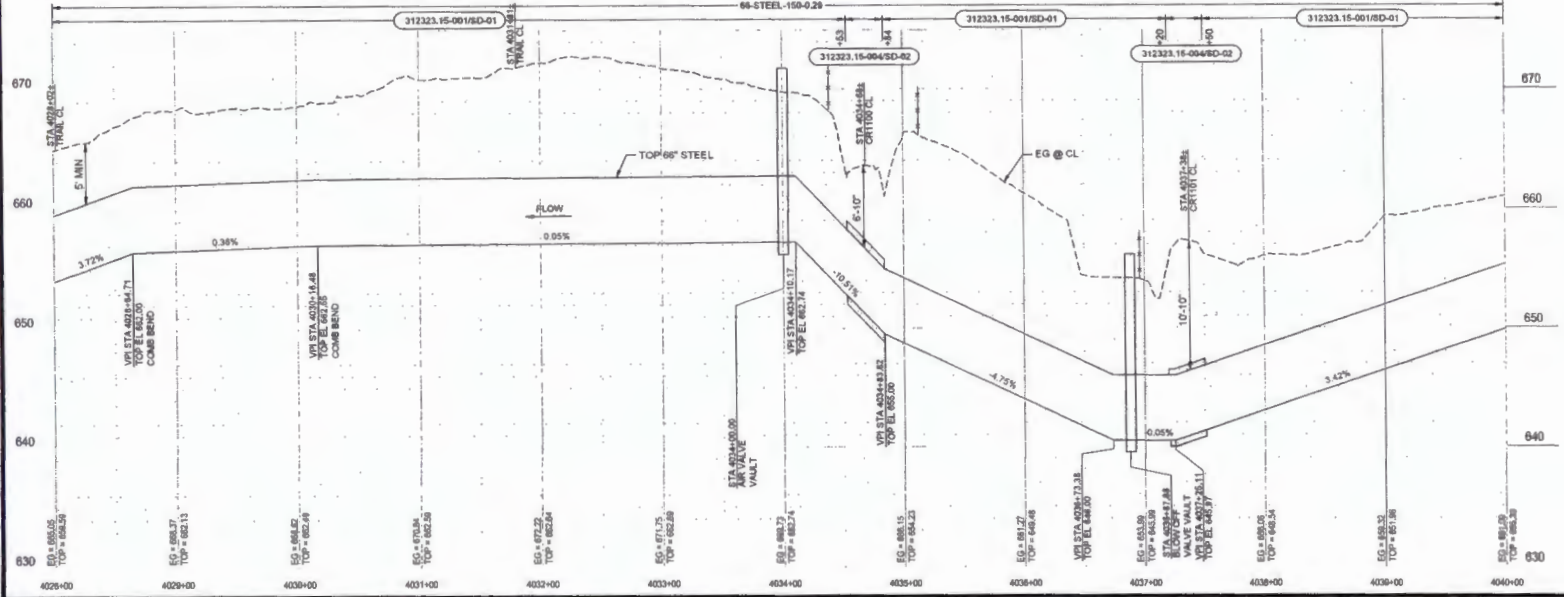
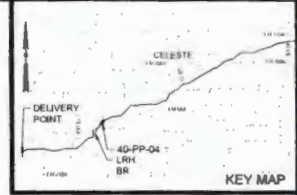
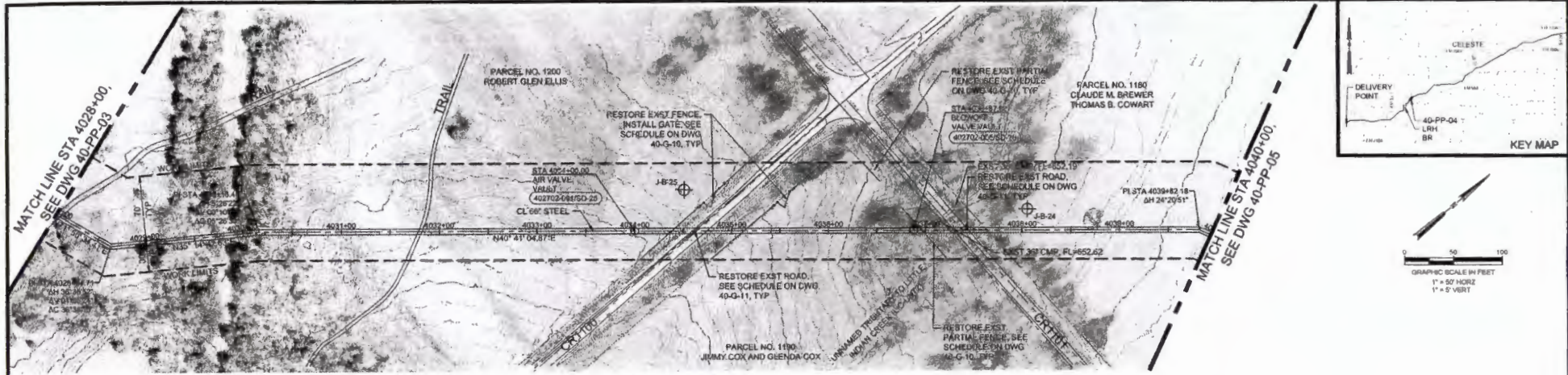
McKee Utilities is seeking permission from Hunt County to Cross County Road 1101 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signs. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager





ISSUED FOR CONSTRUCTION

NO.	DATE	DRWN	CHWD	REVISIONS

JOB NO. W782890
 SCALE: AS SHOWN
 DATE: JUNE 2023
 DESIGNED BY: HCB
 DRAWN BY: JPC
 CHECKED BY: AAM
 APPROVED BY: BAI



UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE
 40 - PIPELINE - BALANCING RESERVOIR TO HWY 34
 PIPELINE PLAN AND PROFILE
 STA 4028+00 TO STA 4040+00

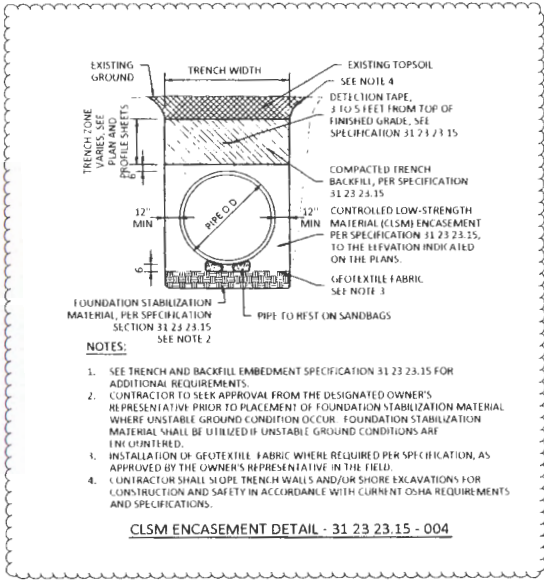


Jacobs
 TEXAS REGISTERED ENGINEERING FIRM 2965



PRINT DATE: 6/28/2023
 SHEET: 40-PP-04
 REG: 20

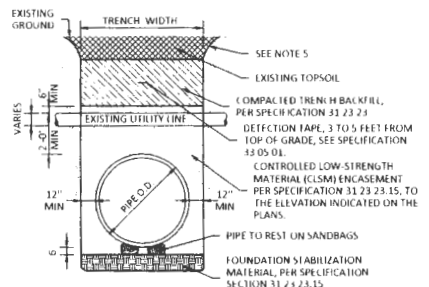
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NOTES:

1. SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
2. CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE INTENTED.
3. INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
4. CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.

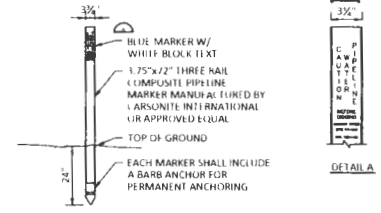
CLSM ENCASUREMENT DETAIL - 31 23 23.15 - 004



NOTES:

1. SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
2. THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT
3. THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (3) DAYS PRIOR TO CROSSING THE UTILITY.
4. FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASUREMENT ON PROPOSED PIPE TO 5' ON EACH SIDE OF UTILITY CROSSING.
5. CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
6. IF THE CROSSING UTILITY IS LESS THAN 6 INCHES AND 3 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
7. CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.

(BY OPEN CUT)
UTILITY LINE CROSSING DETAIL - 02 10 01 - 001



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PIPELINE MARKER - 33 05 01 - 001

ISSUED FOR CONSTRUCTION

DATE: SEPTEMBER 2022	
DESIGNED BY: CLF	
DRAWN BY: FJC	
CHECKED BY: CLF	
APPROVED BY: CHM	

UPPER TRINITY REGIONAL WATER DISTRICT
LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS

REVISION DATE 03/09/2023
SHEET SD-02
REQ

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TRAFFIC ENGINEERING STANDARD SHEETS

SHEET 1 OF 12

		Texas Department of Transportation Traffic Safety Division Standards	
BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS			
BC (1) - 21			
DATE: 11-21-09 BY: 11-21-09	DATE: 11-21-09 BY: 11-21-09	DATE: 11-21-09 BY: 11-21-09	DATE: 11-21-09 BY: 11-21-09
4-03 1-13 9-07 8-14 5-10 5-21	4-03 1-13 9-07 8-14 5-10 5-21	4-03 1-13 9-07 8-14 5-10 5-21	4-03 1-13 9-07 8-14 5-10 5-21



1700 Swift Street, North Kansas City, MO 64116
Phone: 816.741.4600
www.garney.com

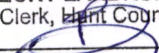
18,498-12

Commissioner Hutchins
Hunt County Courthouse
Greenville, TX 75401

FILED FOR RECORD
at 12:30 o'clock P M 11/16/2023

NOV 28 2023

RE: CR 1132 Road Crossing

BECKY LANDRUM
County Clerk, Hunt County, Tex.
By 

Dear Hunt Conty,

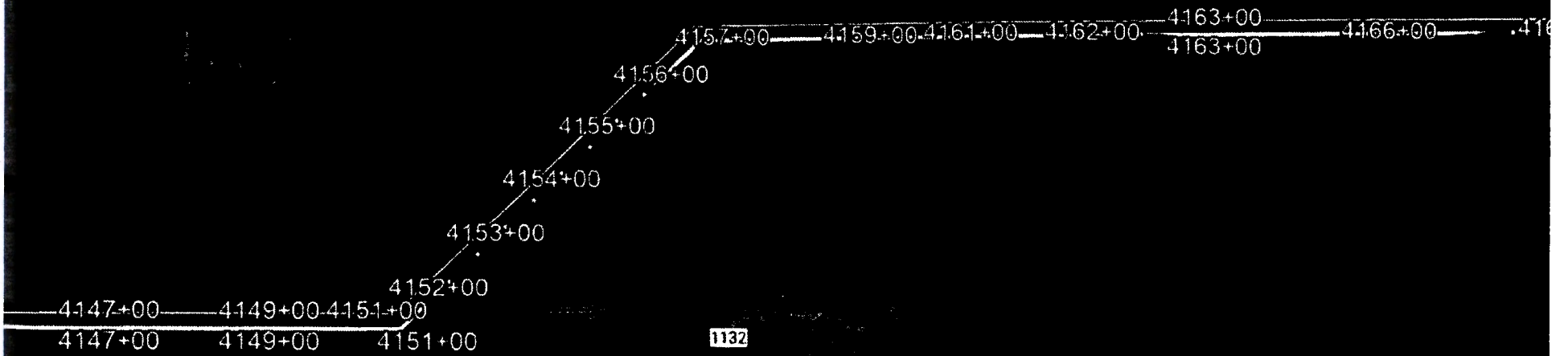
McKee Utilities is seeking permission from Hunt County to Cross County Road 1132 with the Lake Ralph Hall Pipeline. McKee Utilities will be crossing the road following the attached construction details. The access road will be re-routed during the utility crossing utilizing proper TXDOT detour signage. Construction will take roughly three days with the road detour in place. The contractor will notify the residents of the lane closure in advance.

Sincerely,

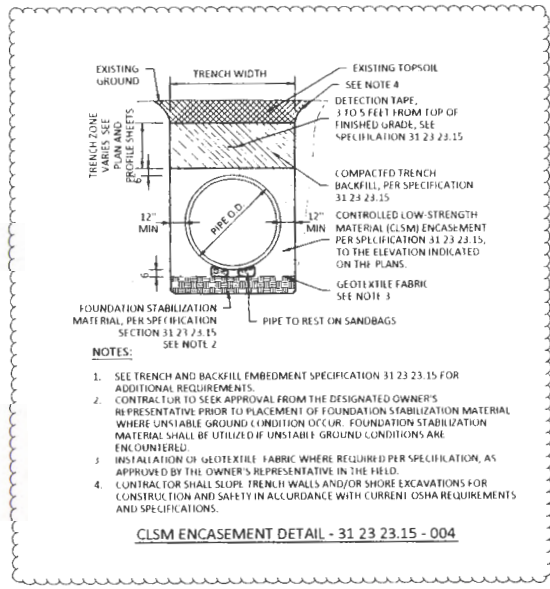
GARNEY COMPANIES, INC.

Andrew Beck
Sr. Project Manager

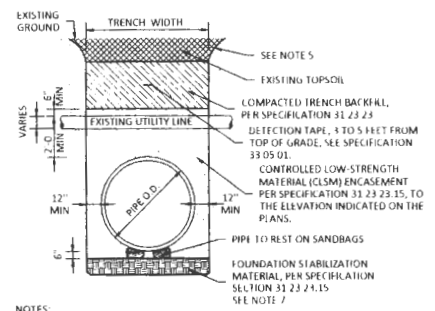
1132



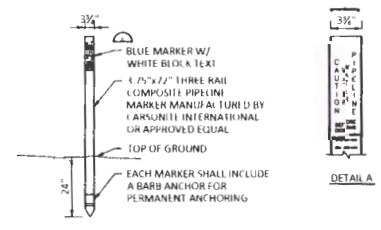
TEXAS REGISTERED ENGINEERING FIRM F-13 2867023-0229-0001 C:\Users\blaburnham\OneDrive\Documents\Planner Associates\0915_006-03_UB_Tan_3_Detail\Project Files\PHD\SET-DTL\Plumber\STANDARD\DETAILS-002-048-Rbauman



- NOTES:**
- SEE TRENCH AND BACKFILL EMBEDMENT SPECIFICATION 31 23 23.15 FOR ADDITIONAL REQUIREMENTS.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.
 - INSTALLATION OF GEOTEXTILE FABRIC WHERE REQUIRED PER SPECIFICATION, AS APPROVED BY THE OWNER'S REPRESENTATIVE IN THE FIELD.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.



- NOTES:**
- SEE PLAN AND PROFILE FOR PROJECT SPECIFIC AND PERMITTED CROSSING DETAILS.
 - THE CONTRACTOR SHALL BE REQUIRED TO USE WOOD MATS FOR WATERLINES, OR REQUIRED BY CROSSING PERMIT.
 - THE CONTRACTOR SHALL CONTACT UTILITY OWNER AT LEAST (3) DAYS PRIOR TO CROSSING THE UTILITY.
 - FOR CROSSING UTILITIES 6" OR LARGER IN DIAMETER, EXTEND CLSM ENCASEMENT ON PROPOSED PIPE TO 5' ON EACH SIDE OF UTILITY CROSSING.
 - CONTRACTOR SHALL SLOPE TRENCH WALLS AND/OR SHORE EXCAVATIONS FOR CONSTRUCTION AND SAFETY IN ACCORDANCE WITH CURRENT OSHA REQUIREMENTS AND SPECIFICATIONS.
 - IF THE CROSSING UTILITY IS LESS THAN 6-INCHES AND 3 FEET OR HIGHER FROM THE TOP OF THE PIPE THEN THE CONTRACTOR MAY SUPPORT THE CROSSING UTILITY AND USE THE STANDARD GRANULAR EMBEDMENT DETAIL.
 - CONTRACTOR TO SEEK APPROVAL FROM THE DESIGNATED OWNER'S REPRESENTATIVE PRIOR TO PLACEMENT OF FOUNDATION STABILIZATION MATERIAL WHERE UNSTABLE GROUND CONDITION OCCUR. FOUNDATION STABILIZATION MATERIAL SHALL BE UTILIZED IF UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED.



- NOTES:**
- MARKER SHALL BE LOCATED ON BOTH SIDES OF ALL ROADS AND RAIL ROADS, AT ALL MAINLINE VALVES, AIR VALVES, AND BLOWOFF VALVES, AT ALL HORIZONTAL BENDS, ROAD CROSSINGS, OTHER VISIBLE STRUCTURES, AND MAX SPACING OF 2000 LF ALONG PIPELINE ALIGNMENT.
 - EACH MARKER SHALL HAVE A STICKER WITH THE FOLLOWING INFORMATION: "CAUTION WATER PIPELINE BEFORE DIGGING CONTACT UTRWD (9/21/19) 1228, STA XXX+XX" ALL INFORMATION MUST BE TYPED OR STAMPED WITH NON-FADING INK, NOT HAND WRITTEN.

ISSUED FOR CONSTRUCTION

JOB NO. 244
 SCALE AS SHOWN
 DATE SEPTEMBER 2023
 DRAWING BY: CLT
 DRAWN BY: FJC
 CHECKED BY: LFP
 APPROVED BY: LHM

UPPER TRINITY REGIONAL WATER DISTRICT
 LAKE RALPH HALL RAW WATER PIPELINE

PROGRAM STANDARD DETAILS SHEET 2
 CLSM EMBEDMENT, UTILITY LINE CROSSING AND PIPELINE MARKER DETAILS

REVISION DATE
 03/09/2023

SHEET
 SD-02

DATE
 03/09/2023

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DATE:
FILE:

BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. 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).
2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. Where highway construction or maintenance work is being undertaken, other than mobile operations as defined by the Texas Manual on Uniform Traffic Control Devices, CSJ limit signs are required. CSJ limit signs are shown on BC(2). The OBEY WARNING SIGNS STATE LAW sign, STAY ALERT TALK OR TEXT LATER and the WORK ZONE TRAFFIC FINES DOUBLE sign with plaque shall be erected in advance of the CSJ limits. The BEGIN ROAD WORK NEXT X MILES, CONTRACTOR and END ROAD WORK signs shall be erected at or near the CSJ limits. For mobile operations, CSJ limit signs are not required.
11. Traffic control devices should be in place only while work is actually in progress or a definite need exists.
12. The Engineer has the final decision on the location of all traffic control devices.
13. 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 NOTES:


1. 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.
2. Except in emergency situations, flagger stations shall be illuminated when flagging is used at night.

COMPLIANT WORKZONE TRAFFIC CONTROL DEVICES

1. Only pre-qualified products shall be used. The "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources.
2. Work zone traffic control devices shall be compliant with the Manual for Assessing safety Hardware (MASH).

<p>THE DOCUMENTS BELOW CAN BE FOUND ON-LINE AT http://www.txdot.gov</p>
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

 Texas Department of Transportation		Traffic Safety Division Standard
<p>BARRICADE AND CONSTRUCTION GENERAL NOTES AND REQUIREMENTS</p> <p>BC(1)-21</p>		
DATE: 02-21-2008 BY: TxDOT CHECKED: November 2007 DIVISION:	DRAWN: [] DESIGNED: [] CHECKED: [] DATE: []	SHEET NO.: [] SHEET TOTAL: [] SD-45