

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: F 2B24(277)

CONTROL: 0033-05-089

COUNTY: JONES

LETTING: 07/09/2024

REFERENCE NO: 0628

PROPOSAL ADDENDUMS

_ PROPOSAL COVER

X BID INSERTS (SH. NO.: 1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,17,18)

X GENERAL NOTES (SH. NO.: M)

_ SPEC LIST (SH. NO.:

_ SPECIAL PROVISIONS:

ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEETS AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

***** BID INSERTS *****

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:

462-6007, 610-6004, 618-6046

ADDED THE FOLLOWING BID ITEMS:

618-6025

DELETED THE FOLLOWING BID ITEMS:

467-6362, 467-6394

*****GENERAL NOTES*****

SHEET M: REVISED ITEM 618 CONDUIT NOTE

*****PLAN SHEETS*****

REPLACED SHEETS: 002,028,034,035,036,037,038,051,058,270,280

ADDED SHEETS: 148A

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| SHEET | DESCRIPTION |
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| SHEET | DESCRIPTION |
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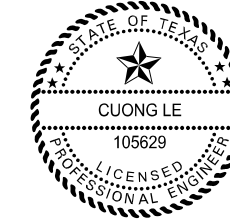
| SHEET | DESCRIPTION |
|---------------------------------|----------------|
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| SHEET | DESCRIPTION |
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| SHEET | DESCRIPTION |
|----------------------|---------------------------|
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▲ ADDENDUM #1 REPLACED 6/28/2024



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY * HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Cuong Le, P.E. 6/28/2024
CUONG VAN LE, PE & Date



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY ** HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Christian L. Moorman, P.E. 6/28/2024
CHRISTIAN L. MOORMAN, PE & Date



THE STANDARD SHEETS SPECIFICALLY IDENTIFIED BY *** HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Fabian A. Herrera, P.E. 6/28/2024
FABIAN A. HERRERA, PE & Date

| | | | |
|---|-------------------------|-------------|----------------|
| 1 | 06-28-2024 | CL | ADDED STANDARD |
| | | | |
| | | | |
| HUITT-ZOLLARS, INC. 5430 LBJ FREEWAY, SUITE 1500, DALLAS, TEXAS 75240-2601 Firm No. F-761 | | | |
| US 83 | | | |
| INDEX OF SHEETS | | | |
| Sheet 1 of 2 | | | |
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| STATE | DISTRICT | COUNTY | |
| TEXAS | ABL | JONES, ETC. | |
| CONT | SECT | JOB | HIGHWAY NO |
| 0033 | 05 | 089, ETC. | US 83, ETC. |

Control: 0033-05-089, ETC
County: Jones, ETC
Highway: US 83, ETC

Item 610, “Roadway Illumination Assemblies”

Ballast for luminaries shall be rated 480 volts.

The Contractor is responsible for fixture testing costs; see Materials and Test Division test method TEX-1110.

Contractor should refer to the Texas Department of Transportation’s Highway Illumination Manual, January 2018, Chapter 6, and Section 7 for additional information on lateral placement of illumination foundations as described in note 6 on RID (2)-20.

<http://onlinemanuals.txdot.gov/txdotmanuals/hwi/index.htm>


Fabricate steel roadway illumination poles in accordance with TxDOT standard RIP-19. Poles fabricated according to RIP-19 require no shop drawings.

Alternate designs to RIP-19 or the use of aluminum to fabricate poles will require the submission of shop drawings electronically.

For instructions on submitting shop drawings electronically go to TxDOT home page, Business with TxDOT, Bridge information, Shop drawings. File is titled: Guide to Electronic Shop Drawing Submittal

Place riprap around the illumination foundation as shown on Standard Sheet RID (2)-20. Riprap will be paid for under item 432.

Item 618, “Conduit”

All conduit shall be SCH 80 PVC except where concrete encased SCH 40 PVC will be allowed. 

High density polyethylene (HDPE) may be substituted for all proposed conduit.

High density polyethylene (HDPE) may be threaded and used with threaded PVC connectors or couplings.

Conduit elbows will be the long radius variety.

Rigid metal conduit elbows 1” and larger that are required to be installed on conduit system, will not be paid for separately, but will be considered subsidiary to the various bid items.

All couplings and connections shall be tight and waterproof. Each end of every PVC pipe connection and/or coupling shall be cleaned with PVC cleaner and glued thoroughly with PVC sealer. Proposed and existing conduit shall be brought into a pull box and elbowed unless otherwise shown. Where a rigid metal conduit run terminates, a bushing shall be provided to protect the wire from abrasion.

The conduit shall be placed at a minimum depth of 2 feet unless otherwise shown on the plans or directed by the Engineer. If utility lines or other obstacles are at the 2-foot minimum depth then

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County: Jones, ETC
Highway: US 83, ETC

the conduit shall be routed under the utility or obstacle unless otherwise approved by the Engineer.

The conduit shall be placed on a 2-inch sand cushion and then backfilled with a minimum of 6 inches of sand fill. The remainder of the trench shall be backfilled with flexible base or soil as required by location of conduit on the project.

Use materials from prequalified material producers list as shown on the Texas department of Transportation (TxDOT) – Construction Division’s (CST) material producer list. Category is “Roadway Illumination and Electrical Supplies”.

Item 620, “Electrical Conductors”

A bare copper wire No. 8 AWG or larger will be installed in every conduit throughout the electrical system in accordance with Item 620, the electrical detail sheets, and the latest edition of the National Electric Code (NEC).

Grounding Conductors that share the same conduit, junction box, ground box or structure shall be bonded together at every accessible point in accordance with the current National Electrical Code.

Labeling conductors with label marker is acceptable.

Use ONLY certified persons to perform electrical work. See Item 7.18 “Electrical Requirements” for additional details.

For both transformer and shoe- base type illumination poles, provide double-pole breakaway fuse holder as shown on the Texas department of Transportation (TxDOT) – Construction Division’s (CST) material producer list. Category is “Roadway Illumination and Electrical Supplies”. Fuse holder is shown on the list under Items 610 and 620. Provide 10-amp time delay fuses.

Use breakaway connectors listed on materials from pre-qualified material producers list.

Item 628, “Electrical Service”

Coordinate through the inspector or Area Engineer to coordinate new electrical services with the District Traffic Engineering Section by telephone at 325-676-6991 and by email at ABL-ElectricalServiceRequest@txdot.gov to insure the meter is installed under the proper account name.

Provide at least 30 days prior notification for new electrical services to be energized. Provide at least 30 days prior notification for existing electrical service disconnects.

Any service installed by others shall comply with all TxDOT Standards from weather head to fixtures.

| | | | |
|-------------------|-------------------------|------------|-------------|
| FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET NO. | |
| 6 | SEE TITLE SHEET | 28 | |
| STATE | DISTRICT | COUNTY | |
| TEXAS | ABL | JONES, ETC | |
| CONT | SECT | JOB | HIGHWAY NO |
| 0033 | 05 | 089, ETC. | US 83, ETC. |



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0033-05-089

DISTRICT Abilene
HIGHWAY FM 3034, US 83

COUNTY Jones, Taylor

| CONTROL SECTION JOB | | | | 0033-05-089 | | 0033-06-121 | | 3068-01-012 | | 3068-01-015 | | TOTAL EST. | TOTAL FINAL |
|---------------------|----------|---|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|------------|-------------|
| PROJECT ID | | | | A00059463 | | A00186240 | | A00061280 | | A00189170 | | | |
| COUNTY | | | | Jones | | Taylor | | Jones | | Jones | | | |
| HIGHWAY | | | | US 83 | | US 83 | | FM 3034 | | FM 3034 | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | EST. | FINAL | EST. | FINAL | EST. | FINAL | | |
| | 420-6038 | CL C CONC (COLUMN)(HPC) | CY | 55.000 | | | | | | | | 55.000 | |
| | 422-6002 | REINF CONC SLAB (HPC) | SF | 33,120.000 | | | | | | | | 33,120.000 | |
| | 422-6016 | APPROACH SLAB (HPC) | CY | 243.000 | | | | | | | | 243.000 | |
| | 423-6001 | RETAINING WALL (MSE) | SF | 63,019.000 | | | | | | | | 63,019.000 | |
| | 425-6039 | PRESTR CONC GIRDER (TX54) | LF | 3,942.620 | | | | | | | | 3,942.620 | |
| | 427-6004 | SILICONE RESIN PAINT FINISH | SF | 1,388.000 | | | | | | | | 1,388.000 | |
| | 432-6001 | RIPRAP (CONC)(4 IN) | CY | 50.250 | | 2.000 | | | | | | 52.250 | |
| | 432-6002 | RIPRAP (CONC)(5 IN) | CY | 495.000 | | 15.400 | | 27.100 | | 23.000 | | 560.500 | |
| | 432-6045 | RIPRAP (MOW STRIP)(4 IN) | CY | 311.000 | | 90.000 | | | | | | 401.000 | |
| | 450-6023 | RAIL (TY SSTR) | LF | 2,926.000 | | | | | | | | 2,926.000 | |
| | 450-6024 | RAIL (TY SSTR)(HPC) | LF | 1,528.000 | | | | | | | | 1,528.000 | |
| | 454-6018 | SEALED EXPANSION JOINT (4 IN) (SEJ - M) | LF | 208.000 | | | | | | | | 208.000 | |
| | 460-6009 | CMP AR (GAL STL DES 2) | LF | | | | | 286.000 | | | | 286.000 | |
| | 460-6010 | CMP AR (GAL STL DES 3) | LF | | | | | 56.000 | | | | 56.000 | |
| | 462-6004 | CONC BOX CULV (4 FT X 3 FT) | LF | | | 61.000 | | | | | | 61.000 | |
| | 462-6007 | CONC BOX CULV (5 FT X 3 FT) | LF | 1,732.000 | | | | 161.000 | | | | 1,893.000 | |
| | 462-6010 | CONC BOX CULV (6 FT X 3 FT) | LF | | | | | 76.000 | | | | 76.000 | |
| | 462-6054 | CONC BOX CULV (6 FT X 3 FT)(EXTEND) | LF | | | | | | | 30.000 | | 30.000 | |
| | 462-6057 | CONC BOX CULV (6 FT X 6 FT)(EXTEND) | LF | | | | | | | 26.000 | | 26.000 | |
| | 462-6058 | CONC BOX CULV (7 FT X 3 FT)(EXTEND) | LF | | | 36.000 | | | | | | 36.000 | |
| | 462-6096 | CONC BOX CULV (8 FT X 3 FT) | LF | | | | | 159.000 | | | | 159.000 | |
| | 462-6099 | CONC BOX CULV (6 FT X 2 FT) | LF | | | 50.000 | | | | | | 50.000 | |
| | 462-6165 | CONC BOX CULVERT (10 FT X 4 FT)(EXTEND) | LF | | | 78.000 | | | | | | 78.000 | |
| | 464-6003 | RC PIPE (CL III)(18 IN) | LF | 174.000 | | 207.000 | | | | | | 381.000 | |
| | 464-6005 | RC PIPE (CL III)(24 IN) | LF | 737.000 | | | | | | | | 737.000 | |
| | 465-6147 | INLET(COMPL)(PSL)(SFG)(4FTX4FT-4FTX4FT) | EA | 1.000 | | | | | | | | 1.000 | |
| | 466-6130 | HEADWALL (CH - PW - S) (DIA= 24 IN) | EA | 1.000 | | | | | | | | 1.000 | |
| | 466-6152 | WINGWALL (FW - 0) (HW=5 FT) | EA | | | 1.000 | | | | | | 1.000 | |
| | 467-6052 | SET (TY I)(S=10 FT)(HW=5FT)(4:1)(C) | EA | | | 1.000 | | | | | | 1.000 | |
| | 467-6150 | SET (TY I)(S= 4 FT)(HW= 5 FT)(4:1) (C) | EA | | | 1.000 | | | | | | 1.000 | |
| | 467-6152 | SET (TY I)(S= 4 FT)(HW= 5 FT)(6:1) (C) | EA | | | 1.000 | | | | | | 1.000 | |
| | 467-6177 | SET (TY I)(S= 5 FT)(HW= 4 FT)(4:1) (C) | EA | 2.000 | | | | 2.000 | | | | 4.000 | |
| | 467-6205 | SET (TY I)(S= 6 FT)(HW= 3 FT)(4:1) (C) | EA | | | 2.000 | | | | | | 2.000 | |
| | 467-6212 | SET (TY I)(S= 6 FT)(HW= 4 FT)(4:1) (C) | EA | | | | | 2.000 | | 6.000 | | 8.000 | |
| | 467-6227 | SET (TY I)(S= 6 FT)(HW= 7 FT)(3:1) (C) | EA | | | | | | | 4.000 | | 4.000 | |
| | 467-6270 | SET (TY I)(S= 8 FT)(HW= 4 FT)(4:1) (C) | EA | | | | | 2.000 | | | | 2.000 | |
| | 467-6358 | SET (TY II) (18 IN) (RCP) (4: 1) (C) | EA | 4.000 | | 2.000 | | | | | | 6.000 | |

ADDENDUM #1 REPLACED 7/1/2024



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0033-05-089

DISTRICT Abilene
HIGHWAY FM 3034, US 83

COUNTY Jones, Taylor

| CONTROL SECTION JOB | | | | 0033-05-089 | | 0033-06-121 | | 3068-01-012 | | 3068-01-015 | | TOTAL EST. | TOTAL FINAL |
|---------------------|----------|--|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|------------|-------------|
| PROJECT ID | | | | A00059463 | | A00186240 | | A00061280 | | A00189170 | | | |
| COUNTY | | | | Jones | | Taylor | | Jones | | Jones | | | |
| HIGHWAY | | | | US 83 | | US 83 | | FM 3034 | | FM 3034 | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | EST. | FINAL | EST. | FINAL | EST. | FINAL | | |
| | 467-6388 | SET (TY II) (24 IN) (RCP) (3: 1) (C) | EA | 1.000 | | | | | | | | 1.000 | |
| | 467-6390 | SET (TY II) (24 IN) (RCP) (4: 1) (C) | EA | 2.000 | | | | | | | | 2.000 | |
| | 467-6391 | SET (TY II) (24 IN) (RCP) (4: 1) (P) | EA | 1.000 | | | | | | | | 1.000 | |
| | 467-6525 | SET (TY II) (DES 2) (CMP) (6: 1) (P) | EA | | | | | 10.000 | | | | 10.000 | |
| | 467-6537 | SET (TY II) (DES 3) (CMP) (6: 1) (P) | EA | | | | | 2.000 | | | | 2.000 | |
| | 480-6001 | CLEAN EXIST CULVERTS | EA | | | 3.000 | | | | | | 3.000 | |
| | 496-6001 | REMOV STR (BOX CULVERT) | EA | 2.000 | | 1.000 | | | | | | 3.000 | |
| | 496-6002 | REMOV STR (INLET) | EA | 3.000 | | | | | | | | 3.000 | |
| | 496-6004 | REMOV STR (SET) | EA | 5.000 | | 6.000 | | 2.000 | | | | 13.000 | |
| | 496-6005 | REMOV STR (WINGWALL) | EA | 2.000 | | 3.000 | | | | 4.000 | | 9.000 | |
| | 496-6006 | REMOV STR (HEADWALL) | EA | | | 2.000 | | | | | | 2.000 | |
| | 496-6007 | REMOV STR (PIPE) | LF | 182.000 | | 155.000 | | 277.000 | | | | 614.000 | |
| | 500-6001 | MOBILIZATION | LS | | | 1.000 | | | | | | 1.000 | |
| | 502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 30.000 | | | | | | | | 30.000 | |
| | 506-6002 | ROCK FILTER DAMS (INSTALL) (TY 2) | LF | | | 80.000 | | 40.000 | | 60.000 | | 180.000 | |
| | 506-6011 | ROCK FILTER DAMS (REMOVE) | LF | | | 80.000 | | 40.000 | | 60.000 | | 180.000 | |
| | 506-6038 | TEMP SEDMT CONT FENCE (INSTALL) | LF | 2,001.000 | | 1,610.000 | | 3,163.000 | | 360.000 | | 7,134.000 | |
| | 506-6039 | TEMP SEDMT CONT FENCE (REMOVE) | LF | 2,001.000 | | 1,610.000 | | 3,163.000 | | 360.000 | | 7,134.000 | |
| | 506-6041 | BIODEG EROSN CONT LOGS (INSTL) (12") | LF | 360.000 | | 280.000 | | 220.000 | | | | 860.000 | |
| | 506-6043 | BIODEG EROSN CONT LOGS (REMOVE) | LF | 360.000 | | 280.000 | | 220.000 | | | | 860.000 | |
| | 508-6001 | CONSTRUCTING DETOURS | SY | | | 1,702.000 | | 6,213.000 | | | | 7,915.000 | |
| | 512-6009 | PORT CTB (FUR & INST)(LOW PROF)(TY 1) | LF | | | | | 320.000 | | | | 320.000 | |
| | 512-6010 | PORT CTB (FUR & INST)(LOW PROF)(TY 2) | LF | | | | | 40.000 | | | | 40.000 | |
| | 512-6013 | PORT CTB (DES SOURCE)(SGL SLP)(TY 1) | LF | 2,580.000 | | 3,480.000 | | 2,700.000 | | 660.000 | | 9,420.000 | |
| | 512-6025 | PORT CTB (MOVE)(SGL SLP)(TY 1) | LF | 5,100.000 | | 4,470.000 | | 2,910.000 | | 420.000 | | 12,900.000 | |
| | 512-6033 | PORT CTB (MOVE)(LOW PROF)(TY 1) | LF | | | | | 260.000 | | | | 260.000 | |
| | 512-6034 | PORT CTB (MOVE)(LOW PROF)(TY 2) | LF | | | | | 40.000 | | | | 40.000 | |
| | 512-6037 | PORT CTB (STKPL)(SGL SLP)(TY 1) | LF | 2,580.000 | | 3,480.000 | | 2,700.000 | | 660.000 | | 9,420.000 | |
| | 512-6045 | PORT CTB (STKPL)(LOW PROF)(TY 1) | LF | | | | | 320.000 | | | | 320.000 | |
| | 512-6046 | PORT CTB (STKPL)(LOW PROF)(TY 2) | LF | | | | | 40.000 | | | | 40.000 | |
| | 514-6001 | PERM CTB (SGL SLOPE) (TY 1) (42) | LF | 3,699.000 | | 758.000 | | | | | | 4,457.000 | |
| | 530-6006 | DRIVEWAYS (SURF TREAT) | SY | | | | | 735.000 | | | | 735.000 | |
| | 530-6024 | TURNOUTS (RAP) | SY | | | | | | | 443.000 | | 443.000 | |
| | 533-6001 | RUMBLE STRIPS (SHOULDER) | LF | 9,679.000 | | 1,132.000 | | | | | | 10,811.000 | |
| | 540-6001 | MTL W-BEAM GD FEN (TIM POST) | LF | 2,625.000 | | 1,125.000 | | | | | | 3,750.000 | |
| | 540-6006 | MTL BEAM GD FEN TRANS (THRIE-BEAM) | EA | 6.000 | | 2.000 | | | | | | 8.000 | |
| | 540-6016 | DOWNSTREAM ANCHOR TERMINAL SECTION | EA | 7.000 | | 4.000 | | | | | | 11.000 | |

ADDENDUM #1 REPLACED 7/1/2024



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0033-05-089

DISTRICT Abilene
HIGHWAY FM 3034, US 83

COUNTY Jones, Taylor

| CONTROL SECTION JOB | | | | 0033-05-089 | | 0033-06-121 | | 3068-01-012 | | 3068-01-015 | | TOTAL EST. | TOTAL FINAL |
|---------------------|----------|--|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|------------|-------------|
| PROJECT ID | | | | A00059463 | | A00186240 | | A00061280 | | A00189170 | | | |
| COUNTY | | | | Jones | | Taylor | | Jones | | Jones | | | |
| HIGHWAY | | | | US 83 | | US 83 | | FM 3034 | | FM 3034 | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | EST. | FINAL | EST. | FINAL | EST. | FINAL | | |
| | 542-6001 | REMOVE METAL BEAM GUARD FENCE | LF | | | 825.000 | | | | | | 825.000 | |
| | 542-6002 | REMOVE TERMINAL ANCHOR SECTION | EA | | | 3.000 | | | | | | 3.000 | |
| | 542-6004 | RM MTL BM GD FENCE TRANS (THRIE-BEAM) | EA | | | 1.000 | | | | | | 1.000 | |
| | 544-6001 | GUARDRAIL END TREATMENT (INSTALL) | EA | 12.000 | | 3.000 | | | | | | 15.000 | |
| | 544-6003 | GUARDRAIL END TREATMENT (REMOVE) | EA | | | 2.000 | | | | | | 2.000 | |
| | 545-6003 | CRASH CUSH ATTEN (MOVE & RESET) | EA | 4.000 | | 4.000 | | 4.000 | | 4.000 | | 16.000 | |
| | 545-6005 | CRASH CUSH ATTEN (REMOVE) | EA | 4.000 | | 1.000 | | 4.000 | | 4.000 | | 13.000 | |
| | 545-6019 | CRASH CUSH ATTEN (INSTL)(S)(N)(TL3) | EA | 2.000 | | 1.000 | | 6.000 | | 4.000 | | 13.000 | |
| | 560-6025 | RELOCATE EXISTING MAILBOX | EA | | | | | 3.000 | | 13.000 | | 16.000 | |
| | 610-6004 | RELOCATE RD IL ASM (TRANS-BASE) | EA | | | 1.000 | | | | | | 1.000 | |
| | 610-6009 | REMOVE RD IL ASM (TRANS-BASE) | EA | 3.000 | | | | | | | | 3.000 | |
| | 610-6198 | IN RD IL (TY SA) 40B-8 (250W EQ) LED | EA | 7.000 | | | | | | | | 7.000 | |
| | 610-6214 | IN RD IL (TY SA) 40T-8 (250W EQ) LED | EA | 34.000 | | 4.000 | | | | | | 38.000 | |
| | 610-6215 | IN RD IL (TY SA) 40T-8-8 (250W EQ) LED | EA | 1.000 | | | | | | | | 1.000 | |
| | 618-6025 | CONDT (PVC) (SCH 40) (2") (CONC ENCSE) | LF | 1,875.000 | | | | | | | | 1,875.000 | |
| | 618-6046 | CONDT (PVC) (SCH 80) (2") | LF | 6,840.000 | | 820.000 | | | | | | 7,660.000 | |
| | 618-6047 | CONDT (PVC) (SCH 80) (2") (BORE) | LF | 880.000 | | | | | | | | 880.000 | |
| | 620-6007 | ELEC CONDR (NO.8) BARE | LF | 10,390.000 | | 840.000 | | | | | | 11,230.000 | |
| | 620-6008 | ELEC CONDR (NO.8) INSULATED | LF | 21,780.000 | | 1,930.000 | | | | | | 23,710.000 | |
| | 624-6002 | GROUND BOX TY A (122311)W/APRON | EA | 16.000 | | | | | | | | 16.000 | |
| | 624-6008 | GROUND BOX TY C (162911)W/APRON | EA | 1.000 | | | | | | | | 1.000 | |
| | 624-6028 | REMOVE GROUND BOX | EA | 3.000 | | | | | | | | 3.000 | |
| | 628-6002 | REMOVE ELECTRICAL SERVICES | EA | 1.000 | | | | | | | | 1.000 | |
| | 628-6067 | ELC SRV TY A 240/480 100(NS)AL(E)SP(O) | EA | 2.000 | | | | | | | | 2.000 | |
| | 628-6116 | ELC SRV TY D 120/240 060(NS)AL(E)SP(O) | EA | 1.000 | | | | | | | | 1.000 | |
| | 636-6002 | ALUMINUM SIGNS (TY G) | SF | 67.500 | | 67.500 | | | | | | 135.000 | |
| | 636-6003 | ALUMINUM SIGNS (TY O) | SF | 564.750 | | 620.500 | | | | | | 1,185.250 | |
| | 644-6001 | IN SM RD SN SUP&AM TY10BWG(1)SA(P) | EA | 27.000 | | 7.000 | | 27.000 | | 16.000 | | 77.000 | |
| | 644-6004 | IN SM RD SN SUP&AM TY10BWG(1)SA(T) | EA | 13.000 | | 3.000 | | | | | | 16.000 | |
| | 644-6007 | IN SM RD SN SUP&AM TY10BWG(1)SA(U) | EA | 1.000 | | | | 1.000 | | | | 2.000 | |
| | 644-6017 | IN SM RD SN SUP&AM TY10BWG(2)SA(P) | EA | 1.000 | | 1.000 | | | | | | 2.000 | |
| | 644-6027 | IN SM RD SN SUP&AM TYS80(1)SA(P) | EA | 1.000 | | | | | | | | 1.000 | |
| | 644-6030 | IN SM RD SN SUP&AM TYS80(1)SA(T) | EA | 6.000 | | 4.000 | | | | 1.000 | | 11.000 | |
| | 644-6033 | IN SM RD SN SUP&AM TYS80(1)SA(U) | EA | 6.000 | | 2.000 | | | | | | 8.000 | |
| | 644-6065 | IN BRIDGE MNT CLEARANCE SGN ASSM(TY S) | EA | 2.000 | | | | | | | | 2.000 | |
| | 644-6068 | RELOCATE SM RD SN SUP&AM TY 10BWG | EA | | | 3.000 | | | | | | 3.000 | |
| | 644-6076 | REMOVE SM RD SN SUP&AM | EA | 18.000 | | 15.000 | | 8.000 | | 15.000 | | 56.000 | |

ADDENDUM #1 REPLACED 7/1/2024



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0033-05-089

DISTRICT Abilene
HIGHWAY FM 3034, US 83

COUNTY Jones, Taylor

| CONTROL SECTION JOB | | | | 0033-05-089 | | 0033-06-121 | | 3068-01-012 | | 3068-01-015 | | TOTAL EST. | TOTAL FINAL |
|---------------------|----------|---|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|------------|-------------|
| PROJECT ID | | | | A00059463 | | A00186240 | | A00061280 | | A00189170 | | | |
| COUNTY | | | | Jones | | Taylor | | Jones | | Jones | | | |
| HIGHWAY | | | | US 83 | | US 83 | | FM 3034 | | FM 3034 | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | EST. | FINAL | EST. | FINAL | EST. | FINAL | | |
| | 647-6001 | INSTALL LRSS (STRUCT STEEL) | LB | 530.700 | | 689.200 | | | | | | 1,219.900 | |
| | 647-6003 | REMOVE LRSA | EA | 1.000 | | | | | | | | 1.000 | |
| | 650-6025 | INS OH SN SUP(25 FT CANT) | EA | 1.000 | | 2.000 | | | | | | 3.000 | |
| | 650-6032 | INS OH SN SUP(30 FT CANT) | EA | 1.000 | | | | | | | | 1.000 | |
| | 650-6064 | INS OH SN SUP(55 FT BRDG) | EA | 1.000 | | | | | | | | 1.000 | |
| | 650-6084 | INS OH SN SUP(75 FT BRDG) | EA | | | 1.000 | | | | | | 1.000 | |
| | 650-6204 | REMOVE OVERHD SIGN SUP | EA | | | 1.000 | | | | | | 1.000 | |
| | 658-6010 | INSTL DEL ASSM (D-SW)SZ 2(WC)GND | EA | 2.000 | | 4.000 | | | | | | 6.000 | |
| | 658-6040 | INSTL DEL ASSM (D-DW)SZ 2(WC)GND | EA | 11.000 | | | | | | | | 11.000 | |
| | 658-6047 | INSTL OM ASSM (OM-2Y)(WC)GND | EA | 9.000 | | 8.000 | | 17.000 | | 4.000 | | 38.000 | |
| | 658-6063 | INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2(BR) | EA | 28.000 | | 11.000 | | | | | | 39.000 | |
| | 658-6065 | INSTL DEL ASSM (D-SY)SZ 1(BRF)GF2(BR) | EA | 14.000 | | 5.000 | | | | | | 19.000 | |
| | 658-6069 | INSTL DEL ASSM (D-SW)SZ (BRF)CTB (BR) | EA | 35.000 | | | | | | | | 35.000 | |
| | 658-6070 | INSTL DEL ASSM (D-SY)SZ (BRF)CTB (BR) | EA | 44.000 | | 8.000 | | | | | | 52.000 | |
| | 658-6078 | INSTL OM ASSM (OM-4)(TWT)WAS | EA | | | 2.000 | | | | | | 2.000 | |
| | 662-6064 | WK ZN PAV MRK REMOV (W)6"(BRK) | LF | 580.000 | | 240.000 | | | | | | 820.000 | |
| | 662-6067 | WK ZN PAV MRK REMOV (W)6"(SLD) | LF | 4,721.000 | | 4,913.000 | | 14,198.000 | | | | 23,832.000 | |
| | 662-6098 | WK ZN PAV MRK REMOV (Y)6"(SLD) | LF | 3,545.000 | | 6,423.000 | | 14,247.000 | | 6,960.000 | | 31,175.000 | |
| | 662-6111 | WK ZN PAV MRK SHT TERM (TAB)TY Y-2 | EA | | | | | | | 1,026.000 | | 1,026.000 | |
| | 666-6036 | REFL PAV MRK TY I (W)8"(SLD)(100MIL) | LF | 6,101.000 | | 594.000 | | 670.000 | | | | 7,365.000 | |
| | 666-6039 | REFL PAV MRK TY I (W)12"(LNDP)(100MIL) | LF | 153.000 | | 246.000 | | | | | | 399.000 | |
| | 666-6208 | REFL PAV MRK TY II (Y) 6" (BRK) | LF | | | | | | | 1,190.000 | | 1,190.000 | |
| | 666-6210 | REFL PAV MRK TY II (Y) 6" (SLD) | LF | | | | | | | 10,014.000 | | 10,014.000 | |
| | 666-6243 | PAVEMENT SEALER (YLD TRI) | EA | | | | | 35.000 | | | | 35.000 | |
| | 666-6306 | RE PM W/RET REQ TY I (W)6"(BRK)(100MIL) | LF | 1,710.000 | | 1,450.000 | | | | | | 3,160.000 | |
| | 666-6309 | RE PM W/RET REQ TY I (W)6"(SLD)(100MIL) | LF | 19,202.000 | | 5,351.000 | | 6,872.000 | | 15,584.000 | | 47,009.000 | |
| | 666-6318 | RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL) | LF | | | | | | | 1,190.000 | | 1,190.000 | |
| | 666-6321 | RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL) | LF | 16,740.000 | | 4,724.000 | | 8,568.000 | | 10,014.000 | | 40,046.000 | |
| | 668-6074 | PREFAB PAV MRK TY C (W) (12") (SLD) | LF | 1,146.000 | | | | | | | | 1,146.000 | |
| | 668-6076 | PREFAB PAV MRK TY C (W) (24") (SLD) | LF | | | | | 47.000 | | 120.000 | | 167.000 | |
| | 668-6077 | PREFAB PAV MRK TY C (W) (ARROW) | EA | 1.000 | | 1.000 | | 4.000 | | | | 6.000 | |
| | 668-6083 | PREFAB PAV MRK TY C (W) (LNDP ARROW) | EA | 4.000 | | | | 4.000 | | | | 8.000 | |
| | 668-6085 | PREFAB PAV MRK TY C (W) (WORD) | EA | 1.000 | | 1.000 | | 4.000 | | | | 6.000 | |
| | 668-6092 | PREFAB PAV MRK TY C (W) (36")(YLD TRI) | EA | 9.000 | | | | | | | | 9.000 | |
| | 672-6007 | REFL PAV MRKR TY I-C | EA | | | | | 34.000 | | | | 34.000 | |
| | 672-6009 | REFL PAV MRKR TY II-A-A | EA | 91.000 | | | | 463.000 | | 186.000 | | 740.000 | |
| | 672-6010 | REFL PAV MRKR TY II-C-R | EA | 456.000 | | 122.000 | | | | | | 578.000 | |

ADDENDUM #1 REPLACED 7/1/2024



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 0033-05-089

DISTRICT Abilene
HIGHWAY FM 3034, US 83

COUNTY Jones, Taylor

| CONTROL SECTION JOB | | | | 0033-05-089 | | 0033-06-121 | | 3068-01-012 | | 3068-01-015 | | TOTAL EST. | TOTAL FINAL |
|---------------------|-----------|--|------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|------------|-------------|
| PROJECT ID | | | | A00059463 | | A00186240 | | A00061280 | | A00189170 | | | |
| COUNTY | | | | Jones | | Taylor | | Jones | | Jones | | | |
| HIGHWAY | | | | US 83 | | US 83 | | FM 3034 | | FM 3034 | | | |
| ALT | BID CODE | DESCRIPTION | UNIT | EST. | FINAL | EST. | FINAL | EST. | FINAL | EST. | FINAL | | |
| | 677-6001 | ELIM EXT PAV MRK & MRKS (4") | LF | 3,807.000 | | 4,631.000 | | 7,469.000 | | 3,480.000 | | 19,387.000 | |
| | 678-6002 | PAV SURF PREP FOR MRK (6") | LF | 4,327.000 | | | | 2,164.000 | | | | 6,491.000 | |
| | 678-6006 | PAV SURF PREP FOR MRK (12") | LF | 1,146.000 | | | | | | | | 1,146.000 | |
| | 678-6008 | PAV SURF PREP FOR MRK (24") | LF | 53.000 | | | | 31.000 | | | | 84.000 | |
| | 678-6009 | PAV SURF PREP FOR MRK (ARROW) | EA | 1.000 | | | | | | | | 1.000 | |
| | 678-6023 | PAV SURF PREP FOR MRK (36")(YLD TRI) | EA | | | | | 35.000 | | | | 35.000 | |
| | 690-6009 | REMOVAL OF CABLES | LF | 1,515.000 | | 630.000 | | | | | | 2,145.000 | |
| | 690-6127 | REMOVE LUMINAIRE POLE | EA | 4.000 | | | | | | | | 4.000 | |
| | 3076-6001 | D-GR HMA TY-B PG64-22 | TON | 8,254.000 | | 5,833.000 | | | | | | 14,087.000 | |
| | 3076-6015 | D-GR HMA TY-C PG64-22 | TON | 2,657.000 | | | | 1,860.000 | | 1,558.000 | | 6,075.000 | |
| | 3077-6023 | SP MIXES SP-C SAC-B PG70-22 | TON | 2,883.000 | | 1,792.000 | | 1,860.000 | | 3,485.000 | | 10,020.000 | |
| | 3077-6033 | SP MIXES SP-C SAC-A PG76-22 | TON | 3,510.000 | | 743.000 | | | | | | 4,253.000 | |
| | 3077-6075 | TACK COAT | GAL | 5,853.000 | | 2,323.000 | | 1,691.000 | | 3,183.000 | | 13,050.000 | |
| | 6001-6002 | PORTABLE CHANGEABLE MESSAGE SIGN | EA | 1.000 | | 1.000 | | | | | | 2.000 | |
| | 6010-6002 | CCTV FIELD EQUIPMENT (DIGITAL) | EA | 1.000 | | | | | | | | 1.000 | |
| | 6010-6003 | CCTV FIELD CONTROLLER | EA | 1.000 | | | | | | | | 1.000 | |
| | 6010-6004 | CCTV MOUNT (POLE) | EA | 1.000 | | | | | | | | 1.000 | |
| | 6027-6003 | CONDUIT (PREPARE) | LF | 80.000 | | 115.000 | | | | | | 195.000 | |
| | 6027-6008 | GROUND BOX (PREPARE) | EA | 2.000 | | 2.000 | | | | | | 4.000 | |
| | 6038-6004 | MULTIPOLYMER PAV MRK (W)(6")(SLD) | LF | 1,155.000 | | | | 1,440.000 | | | | 2,595.000 | |
| | 6038-6005 | MULTIPOLYMER PAV MRK (W)(6")(BRK) | LF | 70.000 | | | | | | | | 70.000 | |
| | 6038-6013 | MULTIPOLYMER PAV MRK (W)(24")(SLD) | LF | 53.000 | | | | 31.000 | | | | 84.000 | |
| | 6038-6017 | MULTIPOLYMER PAV MRK (Y)(6")(SLD) | LF | 1,481.000 | | | | 724.000 | | | | 2,205.000 | |
| | 6038-6028 | MULTIPOLYMER PAV MRK (W) 36" YLD TRI | EA | | | | | 35.000 | | | | 35.000 | |
| | 6064-6055 | ITS POLE (60 FT)(90 MPH) | EA | 1.000 | | | | | | | | 1.000 | |
| | 6064-6084 | ITS POLE MNT CAB (TY 2)(CONF 2) | EA | 1.000 | | | | | | | | 1.000 | |
| | 6185-6002 | TMA (STATIONARY) | DAY | | | | | 38.000 | | 98.000 | | 136.000 | |
| | 6185-6005 | TMA (MOBILE OPERATION) | DAY | 10.000 | | | | 12.000 | | 12.000 | | 34.000 | |
| | 6247-6003 | INSTALL OF FIELD HARD ETHERNET SWITCH | EA | 1.000 | | | | | | | | 1.000 | |
| | 6247-6005 | INSTALL OF CELLULAR MODEM | EA | 1.000 | | | | | | | | 1.000 | |
| | 18 | EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART) | LS | 1.000 | | | | | | | | 1.000 | |
| | | SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING) | LS | 1.000 | | | | | | | | 1.000 | |

ADDENDUM #1 REPLACED 7/1/2024

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| SUMMARY OF DRAINAGE QUANTITIES | | | | | | | | | | | | | | | |
|----------------------------------|------------------------------------|----------------------|------------------------------------|----------------------------|-----------------------------------|-----------------------------------|-----------------------------------|---|-----------------------------------|---|---------------------------|---------------------------|---|--|-----------------------------------|
| LOCATION | 400 6008 | 401 6001 | 402 6001 | 432 6002 | 462 6004 | 462 6007 | 462 6010 | 462 6058 | 462 6099 | 462 6165 | 464 6003 | 464 6005 | 465 6147 | 466 6130 | 466 6152 |
| | CUT & RESTORE ASPH PAVING | FLOWABLE BACKFILL | TRENCH EXCAVATION PROTECTION | RIPRAP (CONC) (5 IN) | CONC BOX CULV (4 FT X 3 FT) | CONC BOX CULV (5 FT X 3 FT) | CONC BOX CULV (6 FT X 3 FT) | CONC BOX CULV (7 FT X 3 FT) (EXTEND) | CONC BOX CULV (6 FT X 2 FT) | CONC BOX CULVERT (10 FT X 4 FT) (EXTEND) | RC PIPE (CL (18 IN) | RC PIPE (CL (24 IN) | INLET (COMP L) (PSL) (SF G) (4FTX4FT -4FTX4FT) | HEADWALL (CH - PW - S) (DIA= 24 IN) | WINGWALL (FW - O) (HW=5 FT) |
| | SY | CY | LF | CY | LF | LF | LF | LF | LF | LF | LF | LF | EA | EA | EA |
| CSJ 0033-06-121 | | | | | | | | | | | | | | | |
| CULVERT A | | | 51 | 4.3 | 61 | | | | | | | | | | |
| CULVERT B | | | | 5.1 | | | | | | 78 | | | | | |
| CULVERT C | | | | 3.6 | | | | | 36 | | | | | | 1 |
| CULVERT PR200R STA 16+21.11 | | | | | | | | | | | 207 | | | | |
| CULVERT PRO83-NB STA 191+65.00 | 28 | 13 | | 2.4 | | | | | 50 | | | | | | |
| CSJ TOTAL | 28 | 13 | 51 | 15.4 | 61 | | | | 36 | 50 | 78 | 207 | | | 1 |
| CSJ 0033-05-089 | | | | | | | | | | | | | | | |
| CULVERT G-3 | | | | | | | | | | | | 57 | | | |
| CULVERT G-4 | | | | | | | | | | | | 8 | | | |
| CULVERT PRO83-SB STA 218+25.66 | | | | | | | | | | | 174 | | | | |
| CULVERT PR218R STA 14+38.00 | | | | | | | | | | | | 116 | | 1 | |
| SYSTEM PR219L STA 14+59.90 | | | | | | | | | | | | 556 | 1 | | |
| EFR FLUME STA 78+13 TO STA 93+45 | | | | 223 | | | | | | | | | | | |
| CSJ TOTAL | | | | 223 | | | | | | | 174 | 737 | 1 | 1 | |
| CSJ 3068-01-012 | | | | | | | | | | | | | | | |
| CULVERT G-1 | | | | 2.7 | | | | | | | | | | | |
| CULVERT G-2 | | | | 2.7 | | | | | | | | | | | |
| CULVERT F | | | | 8.7 | | | | 76 | | | | | | | |
| CSJ TOTAL | | | | 14.1 | | | | 76 | | | | | | | |
| PROJECT TOTALS | 28 | 13 | 51 | 252.5 | 61 | | 76 | 36 | 50 | 78 | 381 | 737 | 1 | 1 | 1 |

| SUMMARY OF DRAINAGE QUANTITIES | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|--|--|--|--|----------------------------|--|
| LOCATION | 467 6052 | 467 6150 | 467 6152 | 467 6177 | 467 6205 | 467 6212 | 467 6358 | 467 6388 | 467 6390 | 467 6391 | 480 6001 | |
| | SET (TY I) (S=10 FT) (HW=5F T) (4:1) (C) | SET (TY I) (S= 4 FT) (HW= 5 FT) (4:1) (C) | SET (TY I) (S= 4 FT) (HW= 5 FT) (6:1) (C) | SET (TY I) (S= 5 FT) (HW= 4 FT) (4:1) (C) | SET (TY I) (S= 6 FT) (HW= 3 FT) (4:1) (C) | SET (TY I) (S= 6 FT) (HW= 4 FT) (4:1) (C) | SET (TY II) (18 IN) (RCP) (4: 1) (C) | SET (TY II) (24 IN) (RCP) (3: 1) (C) | SET (TY II) (24 IN) (RCP) (4: 1) (C) | SET (TY II) (24 IN) (RCP) (4: 1) (P) | CLEAN EXIST CULVERTS | |
| | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | EA | |
| CSJ 0033-06-121 | | | | | | | | | | | | |
| CULVERT A | | 1 | 1 | | | | | | | | | |
| CULVERT B | 1 | | | | | | | | | | 1 | |
| CULVERT C | | | | | | | | | | | 2 | |
| CULVERT PR200R STA 16+21.11 | | | | | | | 2 | | | | | |
| CULVERT PRO83-NB STA 191+65.00 | | | | | 2 | | | | | | | |
| CSJ TOTAL | 1 | 1 | 1 | | 2 | | 2 | | | | 3 | |
| CSJ 0033-05-089 | | | | | | | | | | | | |
| CULVERT G-3 | | | | | | | | 1 | | | | |
| CULVERT G-4 | | | | | | | | 1 | | | | |
| CULVERT PRO83-SB STA 218+25.66 | | | | | | | 4 | | | | | |
| CULVERT PR218R STA 14+38.00 | | | | | | | | 1 | | | | |
| SYSTEM PR219L STA 14+59.90 | | | | | | | | | 1 | | | |
| EFR FLUME STA 78+13 TO STA 93+45 | | | | | | | | | | | | |
| CSJ TOTAL | | | | | | | 4 | 1 | 2 | 1 | | |
| CSJ 3068-01-012 | | | | | | | | | | | | |
| CULVERT G-1 | | | | 1 | | | | | | | | |
| CULVERT G-2 | | | | 1 | | | | | | | | |
| CULVERT F | | | | | | 2 | | | | | | |
| CSJ TOTAL | | | | 2 | | 2 | | | | | | |
| PROJECT TOTALS | 1 | 1 | 1 | 2 | 2 | 2 | 6 | 1 | 2 | 1 | 3 | |

ADDENDUM #1 REPLACED 6/28/2024

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MVE Engineering, Inc.
 TBPE REG. NO. F-9474
 14850 QUORUM DRIVE, SUITE 120, DALLAS, TX - 75254
 PH: (972) 333-3618 FAX: (972) 468-6986

US 83
 QUANTITY SUMMARY

Sheet 12 of 20

| | | |
|-------------------|-------------------------|------------|
| FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET NO. |
| 6 | SEE TITLE SHEET | 51 |
| STATE | DISTRICT | COUNTY |
| TEXAS | ABILENE | JONES |
| CONT | SECT | JOB |
| 0033 | 05 | 089, ETC. |
| | | HIGHWAY NO |
| | | US 83 |

L:\Projects\2019\HUITT-ZOLLARS\19211208D - 36-71DP5140 WA4 (2980 PS&E 17X5 SAT) US 83 at FM 3034\Drawings\PW Files\S817804-ILL-QNT01.dgn
 6/25/2024 3:32:38 PM jclohessy

| SUMMARY OF ILLUMINATION ITEMS | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------------|------------------------|---------------------------------------|-------------------------------------|--|--|--|--|------------------------------|--|---------------------------|-----------------------------------|--|----------------------|----------------------------------|--|----------------------|----------------------|----------------------------|
| LOCATION | 416 6003 | 432 6001 | 610 6004 | 610 6009 | 610 6198 | 610 6214 | 610 6215 | 618 6025 | 618 6046 | 618 6047 | 620 6007 | 620 6008 | 624 6002 | 624 6028 | 628 6002 | 628 6067 | 690 6009 | 6027 6003 | 6027 6008 |
| | DRILL SHAFT (30 IN) | RIPRAP (CONC)(4 IN) | RELOCATE RD IL ASM (TRANS-BASE) | REMOVE RD IL ASM (TRANS-BASE) | IN RD IL (TY SA) 40B-8 (250W EQ) LED | IN RD IL (TY SA) 40T-8 (250W EQ) LED | IN RD IL (TY SA) 40T-8 (250W EQ) LED | CONDT (PVC) (SCH 40) (2") (CONC ENCSE) | CONDT (PVC) (SCH 80) (2") | CONDT (PVC) (SCH 80) (2") (BORE) | ELEC CONDR (NO.8) BARE | ELEC CONDR (NO.8) INSULATED | GROUND BOX TY A (122311)W/AP RON | REMOVE GROUND BOX | REMOVE ELECTRICAL SERVICES | ELC SRV TY A 240/480 100(NS)AL(E)SP(O) | REMOVAL OF CABLES | CONDUIT (PREPARE) | GROUND BOX (PREPARE) |
| | LF | CY | EA | EA | EA | EA | EA | LF | LF | LF | LF | LF | EA | EA | EA | EA | LF | LF | EA |
| CSJ: 0033-06-121 SHEET 1 OF 6 | 8 | 0.35 | 1 | | | | | | | | | | | | | | | | |
| CSJ: 0033-06-121, SHEET 2 OF 6 | 32 | 1.40 | | | | 4 | | | 820 | | 840 | 1,930 | | | | | 630 | 115 | 2 |
| CSJ: 0033-06-121 TOTALS | 40 | 2 | 1 | 0 | 0 | 4 | 0 | 0 | 820 | 0 | 840 | 1,930 | 0 | 0 | 0 | 0 | 630 | 115 | 2 |
| CSJ: 0033-05-089, SHEET 3 OF 6 | 64 | 2.80 | | 3 | 2 | 8 | | 330 | 1,245 | 320 | 2,055 | 4,580 | 4 | 3 | 1 | 1 | 1,515 | 80 | 2 |
| CSJ: 0033-05-089, SHEET 4 OF 6 | 80 | 3.50 | | | 4 | 10 | | 1,275 | 2,275 | 375 | 4,040 | 8,520 | 5 | | | 1 | | | |
| CSJ: 0033-05-089, SHEET 5 OF 6 | 80 | 3.50 | | | 1 | 9 | 1 | 270 | 2,220 | 100 | 2,665 | 5,420 | 4 | | | | | | |
| CSJ: 0033-05-089, SHEET 6 OF 6 | 56 | 2.45 | | | | 7 | | | 1,100 | | 1,125 | 2,250 | | | | | | | |
| CSJ: 0033-05-089 TOTALS | 280 | 13 | 0 | 3 | 7 | 34 | 1 | 1,875 | 6,840 | 795 | 9,885 | 20,770 | 13 | 3 | 1 | 2 | 1,515 | 80 | 2 |
| PROJECT TOTALS | 320 | 15 | 1 | 3 | 7 | 38 | 1 | 1,875 | 7,660 | 795 | 10,725 | 22,700 | 13 | 3 | 1 | 2 | 2,145 | 195 | 4 |



1 ADDENDUM #1 REPLACED 6/28/2024

| REV | DATE | BY | REVISION |
|-----|-----------|----|---------------------------------|
| 1 | 6/25/2024 | | UPDATED BID ITEM AND QUANTITIES |

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 Texas Department of Transportation

US 83 QUANTITY SUMMARY

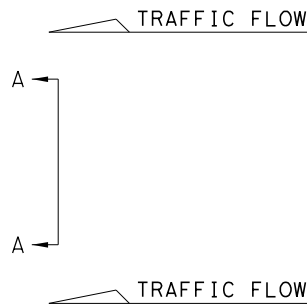
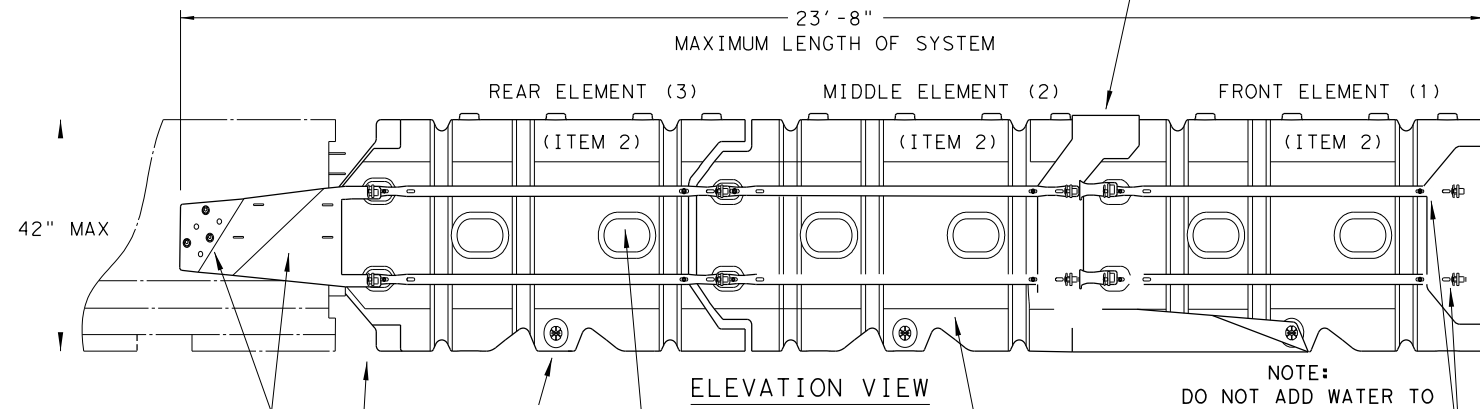
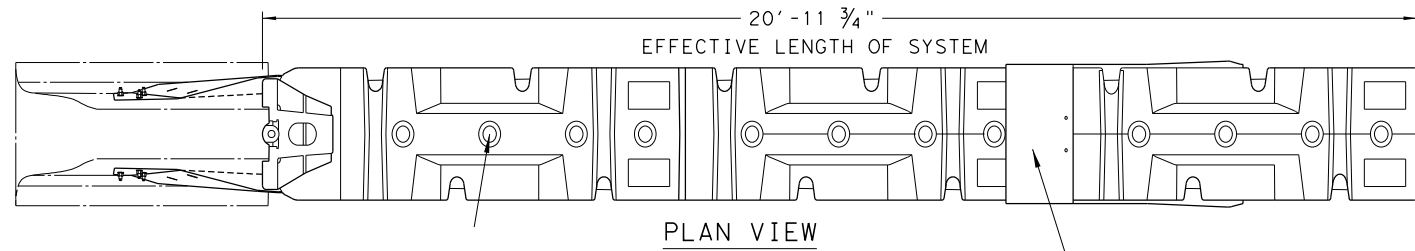
SHEET 1 OF 1

| | | |
|-------------------|-------------------------|-------------|
| FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET NO. |
| 6 | SEE TITLE SHEET | 58 |
| STATE | DISTRICT | COUNTY |
| TEXAS | ABL | JONES, ETC. |
| CONT | SECT | JOB |
| 0033 | 05 | 089, ETC. |
| | | HIGHWAY NO. |
| | | US 83, ETC. |

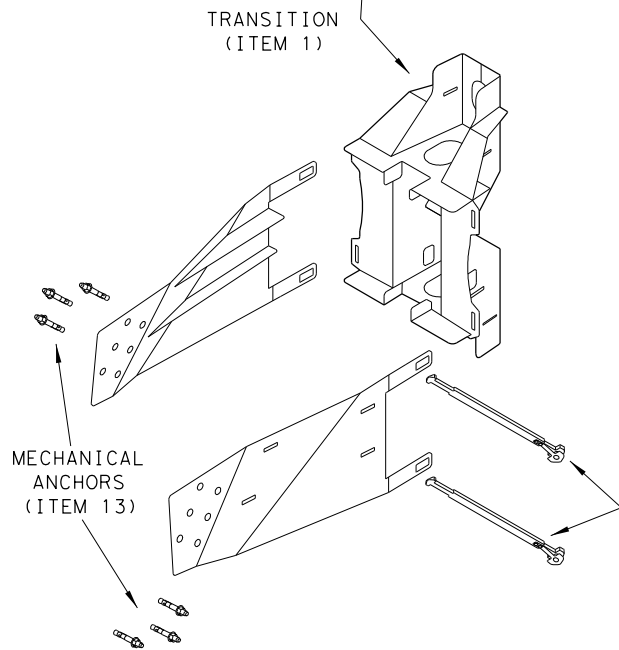
DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TXDOT FOR ANY PURPOSE WHATSOEVER. TXDOT ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

DATE: 6/28/2024
 FILE: c:\hz-pwworking\hz-pw-bentley.com_hz-pw-01\c\leehui\11641\absorb\19.dgn

SYSTEM SHOWN - ABSORB-M TL-3



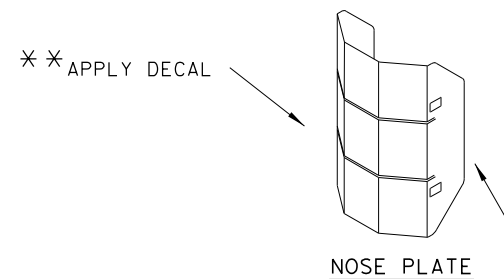
NOTE:
DO NOT ADD WATER TO
FRONT ELEMENT
TL-2 OR TL-3 UNITS



| TEST LEVEL | NUMBER OF ELEMENTS | EFFECTIVE LENGTH | MAXIMUM LENGTH |
|------------|--------------------|------------------|----------------|
| TL-2 | 2 | 14' - 7 3/4" | 17' - 4" |
| TL-3 | 3 | 20' - 11 3/4" | 23' - 8" |

| BILL OF MATERIALS (BOM) ABSORB-M TL-3 & TL-2 SYSTEMS | | | QTY | QTY |
|--|----------------|--|-------------|-------------|
| ITEM # | PART NUMBER | PART DESCRIPTION | TL-2 SYSTEM | TL-3 SYSTEM |
| 1 | BSI-1809036-00 | TRANSITION - (GALV) | 1 | 1 |
| 2 | BSI-1808002-00 | PRE-ASSEMBLED ABSORBING (ELEMENTS) | 2 | 3 |
| 3 | BSI-4004598 | FILL CAPS | 8 | 12 |
| 4 | BSI-4004599 | DRAIN PLUGS | 2 | 3 |
| 5 | BSI-1809053-00 | TENSION STRAP - (GALV) | 8 | 12 |
| 6 | BSI-2001998 | C-SCR FH 3/8-16 X 1 1/2 GR5 PLT | 8 | 12 |
| 7 | BSI-2001999 | C-SCR FH 3/8-16 X 1 GR5 PLT | 8 | 12 |
| 8 | BSI-1809035-00 | MIDNOSE - (GALV) | 1 | 1 |
| 9 | BSI-1808014-00 | NOSE PLATE | 1 | 1 |
| 10 | BSI-1809037-00 | TRANSITION STRAP (LEFT-HAND) - (GALV) | 1 | 1 |
| 11 | BSI-1809038-00 | TRANSITION STRAP (RIGHT-HAND) - (GALV) | 1 | 1 |
| 12 | BSI-1808005-00 | PIN ASSEMBLY | 8 | 10 |
| 13 | BSI-2002001 | ANC MECH 5/8-11X5 (GALV) | 6 | 6 |
| 14 | ABSORB-M | INSTALLATION AND INSTRUCTIONS MANUAL | 1 | 1 |

* COMPONENTS PRE-ASSEMBLED WITH ELEMENT ASSEMBLY



** NOTE: (PROVIDED BY OTHERS)
ENGINEER OR CONTRACTOR SHALL COORDINATE WITH THE MANUFACTURER FOR THE CORRECT DECAL PER TRAFFIC FLOW, LEFT, RIGHT OR BOTH-SIDES.

NOTE:
APPLY A HIGH REFLECTIVE DECAL TO THE NOSE PLATE. DELINEATION DECAL ORIENTATION IS SHOWN ON THE CONSTRUCTION PLAN SET AND SHALL BE IN ACCORDANCE WITH THE TEXAS MUTCD FOR (TRAFFIC CONTROL DEVICES). DECALS ARE AVAILABLE FOR TRAFFIC FLOW ON THE LEFT-SIDE, BOTH -SIDES AND RIGHT-SIDE.

ADDENDUM #1 ADDED 6/28/2024

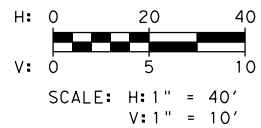
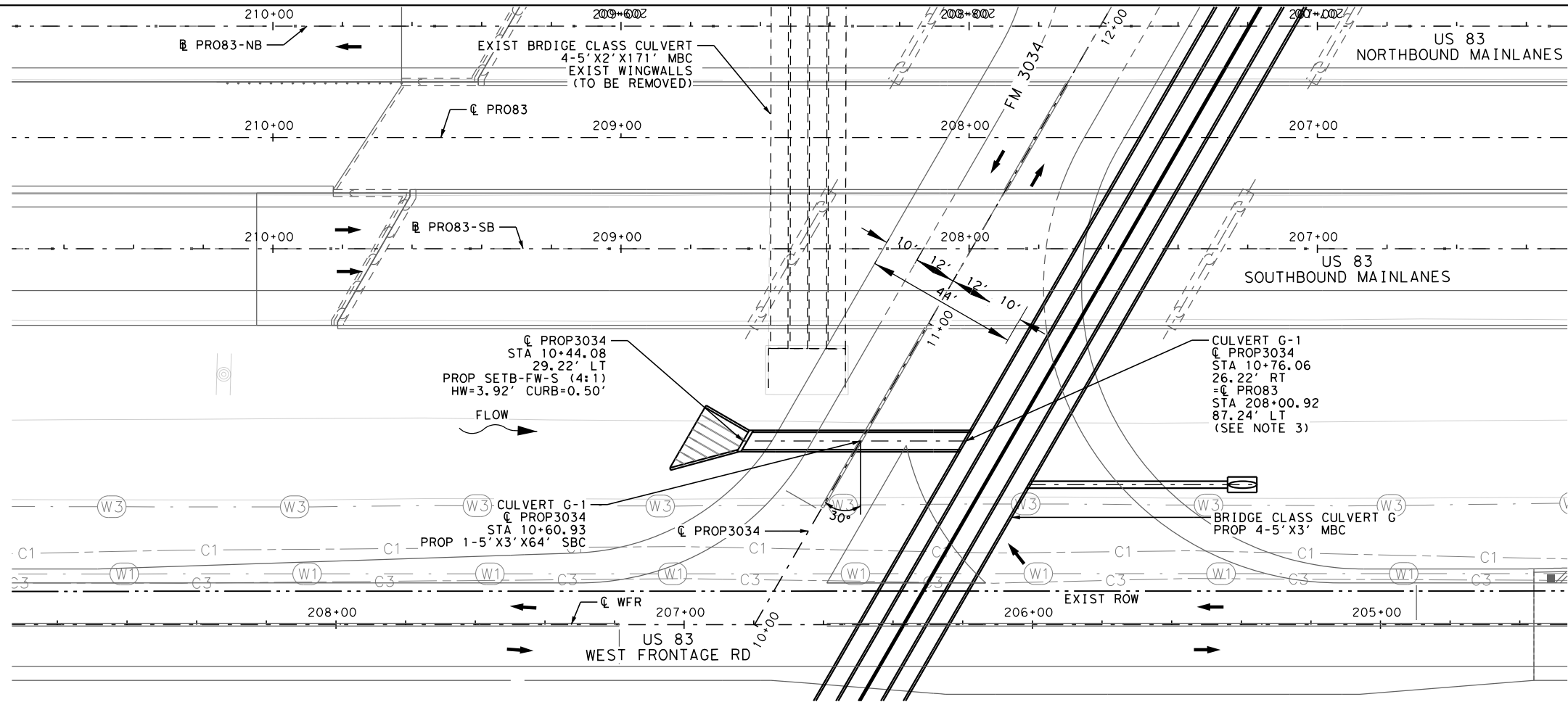
NOTE:
THIS STANDARD IS A BASIC REPRESENTATION OF THE ABSORB-M, IT IS NOT INTENDED TO REPLACE THE INSTALLATION INSTRUCTIONS MANUAL.

GENERAL NOTES

- FOR SPECIFIC INFORMATION REGARDING THE INSTALLATION AND TECHNICAL GUIDANCE, CONTACT: LINDSAY TRANSPORTATION SOLUTIONS (LTS) - BARRIER SYSTEMS, INC. AT (707) 374-6800. 180 RIVER ROAD, RIO VISTA, CA 94571
- THE ABSORB-M SYSTEM IS ONLY APPROVED FOR USE IN (TEMPORARY WORK ZONE) LOCATIONS.
- THE ABSORB-M IS A WATER FILLED NON-REDIRECTIVE, GATING CRASH CUSHION THAT DOES NOT NEED TO BE ATTACHED TO A FOUNDATION AND CAN BE INSTALLED ON TOP OF CONCRETE, ASPHALT, OR ANY SURFACE CAPABLE OF BEARING THE WEIGHT OF THE SYSTEM.
- MAXIMUM PERMISSIBLE CROSS-SLOPE IS 8%.
- THE INSTALLATION AREA SHOULD BE FREE FROM CURBS, ELEVATED OBJECTS, OR DEPRESSIONS.
- THE ABSORB-M SHOULD BE LOCATED APPROXIMATELY PARALLEL WITH THE BARRIER.
- THE USE OF THE ABSORB-M IS RESTRICTED TO A BARRIER HEIGHT OF UP TO 42 INCHES.
- DO NOT ADD WATER TO FRONT ELEMENT (TL-2 OR TL-3 UNIT).

SACRIFICIAL

| | | | |
|--|-------------|---------------------------------|----------------------|
| | | Design Division Standard | |
| LINDSAY TRANSPORTATION SOLUTIONS CRASH CUSHION (MASH TL-3 & TL-2) TEMPORARY - WORK ZONE ABSORB (M) - 19 | | | |
| FILE: absorbm19 | DN: TxDOT | CK: KM | DW: VP |
| © TXDOT: JULY 2019 | CONT SECT | JOB | HIGHWAY |
| REVISIONS | | 0033 05 | 089, ETC. US83, ETC. |
| DIST | COUNTY | SHEET NO. | |
| ABL | JONES, ETC. | 148A | |

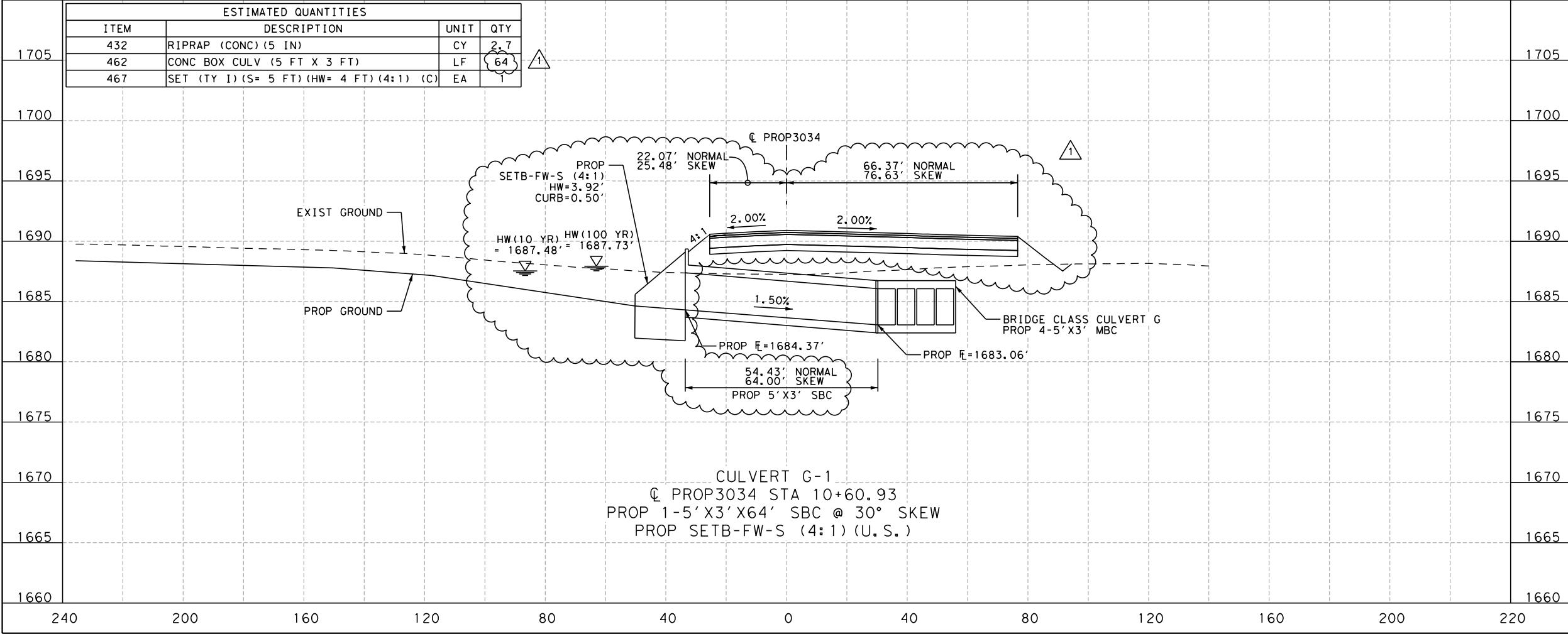


| HYDRAULIC DATA OF CULVERT G-1 | |
|-------------------------------|---------------------|
| Q 10 = 63.00 CFS | Q 100 = 76.65 CFS |
| TW 10 = 1686.06 FT | TW 100 = 1686.06 FT |
| HW 10 = 1687.48 FT | HW 100 = 1687.73 FT |
| V 10 = 4.20 FT/S | V 100 = 5.11 FT/S |

- NOTES:
- CULVERT HEADWALL IS PARALLEL WITH ROADWAY.
 - SEE REMOVAL PLANS FOR REMOVAL ITEM QUANTITIES.
 - SEE DRAINAGE DETAIL SHEET FOR ADDITIONAL INFORMATION.
 - PRECAST SET'S ARE NOT ALLOWED ON SKEWED STRUCTURES.

ADDENDUM #1 REPLACED 6/28/2024

| ESTIMATED QUANTITIES | | | |
|----------------------|---|------|-----|
| ITEM | DESCRIPTION | UNIT | QTY |
| 432 | RIPRAP (CONC) (5 IN) | CY | 2.7 |
| 462 | CONC BOX CULV (5 FT X 3 FT) | LF | 64 |
| 467 | SET (TY I) (S= 5 FT) (HW= 4 FT) (4:1) (C) | EA | 1 |



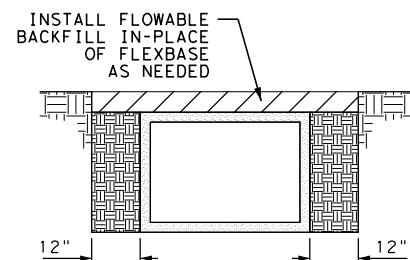
MV Engineering, Inc.
 TBPE REG. NO. F-9474
 14850 QUORUM DRIVE, SUITE 120, DALLAS, TX - 75254
 PH: (972) 333-3618 FAX: (972) 468-6986

US 83
CULVERT LAYOUT G-1
FM 3034 STA 10+60.93

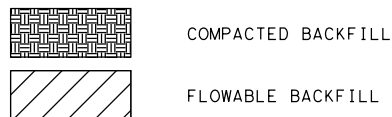
| | | | |
|---------------------|---|---------------|------------------|
| HORZ.: 1" = 40' | | SHEET 1 OF 1 | |
| VERT.: 1" = 10' | | | |
| FED. RD. DIV. NO. 6 | FEDERAL AID PROJECT NO. SEE TITLE SHEET | SHEET NO. 270 | |
| STATE TEXAS | DISTRICT ABILENE | COUNTY JONES | |
| CONT 0033 | SECT 05 | JOB 089, ETC. | HIGHWAY NO US 83 |

ct:\hz\pwworking\hz-pw-bentley\fherrera\dmv-eng\Iner\ng.com\dms01349\US83\CULVERT G-1.dgn
 6/28/2024 11:18:29 AM fherrera

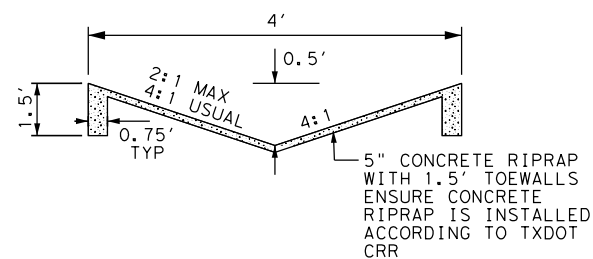
FLOWABLE BACKFILL



CONCRETE BOX SECTION



NOTE: HATCHED AREAS INDICATED LIMITS OF PAY FOR FLOWABLE BACKFILL ON STRUCTURES.
FLOWABLE BACKFILL INSTALLED ON TOP OF CULVERT SHOULD STAY WITHIN PAVEMENT EDGES.



CONCRETE FLUME RIPRAP DETAIL
N. T. S.

ADDENDUM #1 REPLACED 6/28/2024



MVE Engineering, Inc.
 TBPE REG. NO. F-9474
 14850 QUORUM DRIVE, SUITE 120, DALLAS, TX • 75254
 PH: (972)733-3618 FAX: (972)468-6986

US83
DRAINAGE DETAILS

Sheet 2 of 2

| | | |
|-------------------|-------------------------|------------|
| FED. RD. DIV. NO. | FEDERAL AID PROJECT NO. | SHEET NO. |
| 6 | SEE TITLE SHEET | 280 |
| STATE | DISTRICT | COUNTY |
| TEXAS | ABILENE | JONES |
| CONT | SECT | JOB |
| 0033 | 05 | 089, ETC. |
| | | HIGHWAY NO |
| | | US 83 |

c:\nhz-pwworking\hz-pw-bentley\fherrera\mve-eng\neer\ng.com\dms01349\US83\DETAILS\DRN02.dgn
 6/27/2024 4:31:31 PM fherrera