



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

April 6, 2020

Re: [Addendum No. 1](#)

RFB No: [2019-267-04-15-ABV](#)

Hidalgo County - [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Dear Bidder:

Attached you will find **ADDENDUM NO. 1**, in connection with **“HIDALGO COUNTY”** Request for Bids (RFB) for [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Please add this **ADDENDUM NO. 1** to your response, to permit your company to submit a complete packet. See original packet LEGAL NOTICE page 3, paragraph 4 number 9.

[Acknowledge receipt of ADDENDUM NO. 1](#) by signing and returning this notice to us VIA E-MAIL TO: alexandra.vela@co.hidalgo.tx.us.

If you do not receive all two (2) pages of **ADDENDUM NO. 1** please notify us immediately at (956) 318-2626 ext-4865.

Please be advised that this **ADDENDUM NO. 1** will complete your response for *Hidalgo County* [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#).

Thank you for your prompt attention to this matter.

BY: Alexandra Vela
Alexandra Vela, Contract Specialist II
Hidalgo County Purchasing Department

BY: _____
ADDENDUM NO. 1
ACKNOWLEDEMENT OF RECEIPT

BY: _____
Print Name

Enclosure

ADDENDUM NO. 1

April 6, 2020

RFB No. 2019-267-04-15-ABV

Hidalgo County

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

PLEASE NOTE THE FOLLOWING CLARIFICATIONS:

PRE-BID CONFERENCE is scheduled for ~~Tuesday~~, April 08, 2020 at 3:30 P.M. at HIDALGO COUNTY NEW ADMINISTRATION BUILDING-PURCHASING DEPARTMENT 2812 S Business Hwy 281, EDINBURG, TEXAS 78539.

PRE-BID CONFERENCE IS SCHEDULED FOR ~~WEDNESDAY~~, APRIL 08, 2020 at 3:30 p.m.

Typed written bidding RFI’s shall be e-mailed to alexandra.vela@co.hidalgo.tx.us. RFI’s **will not be answered by phone**. NO HAND WRITTEN RFI’S will be processed/answered. All inquiries shall be forwarded by **5:00 p.m. ~~Monday~~ April 08, 2020**. Responses to said inquiries will be sent to all applicants via facsimile by no later than **5:00 p.m. ~~Wednesday~~ April 10, 2020**. Inquiries beyond this date will not be responded to. Contact project architect’s office for copies of Addenda. All bidders who paid a deposit will be required to return Addenda as part of the Construction Documents in order to receive full deposit or refund.

All inquiries shall be forwarded by 5:00 p.m. ~~Wednesday~~ April 08, 2020. Responses to said inquiries will be sent to all applicants via facsimile by no later than 5:00 p.m. ~~Friday~~ April 10, 2020.

Please add this Addendum No 1 to your Response (RFB) so as to permit your company to submit a complete response.

I, _____, acknowledge receipt of ADDENDUM NO. 1 dated, April 6, 2020 *RFB NO.:2019-267-04-15-ABV- Hidalgo County* “Construction of Bus Barn for Hidalgo County Sheriff’s Office ”

Printed Name

Date

NOTE: PLEASE SUBMIT THIS ADDENDUM WITH YOUR RESPONSE IN ORDER TO COMPLETE YOUR RESPONSE.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF & MODEL NUMBER	LAMPS	VA	VOLTAGE	DESCRIPTION	NOTES
A	LITHONIA #DMW2-L24-4000LM-ACL-MD-MVOLT-EGZ10-40K-80CRI-QMB	LED	40	120	ENCLOSED INDUSTRIAL	
AE	LITHONIA #DMW2-L24-4000LM-ACL-MD-MVOLT-EGZ10-40K-80CRI-E10WCP-QMB	LED	40	120	ENCLOSED INDUSTRIAL PROVIDE WITH EMERGENCY BATTERY PACK	
B	LITHONIA WIDGEZ LED-P3-P3SW-40K-80CRI-VW-MVOLT-BBW-PE-XX	LED	39	120	WALLPACK PROVIDE WITH PHOTOCELL	
BE	LITHONIA WIDGEZ LED-P3-P3SW-40K-80CRI-VW-MVOLT-BBW-PE-E10WH-XX	LED	39	120	WALLPACK PROVIDE WITH PHOTOCELL PROVIDE WITH EMERGENCY BATTERY PACK	

PANELBOARD A

VOLTAGE: 480-240/120 VOLT 1 PHASE 3 WIRE LOCATION: EXTERIOR NEMA 3R
 80A MAIN CIRCUIT BREAKER MOUNTING: SURFACE
 BUSES: MAIN - 100 A; 100% NEUTRAL; EQUIPMENT GROUND I_{sc} = 10,000 A RMS SYM AVAILABLE

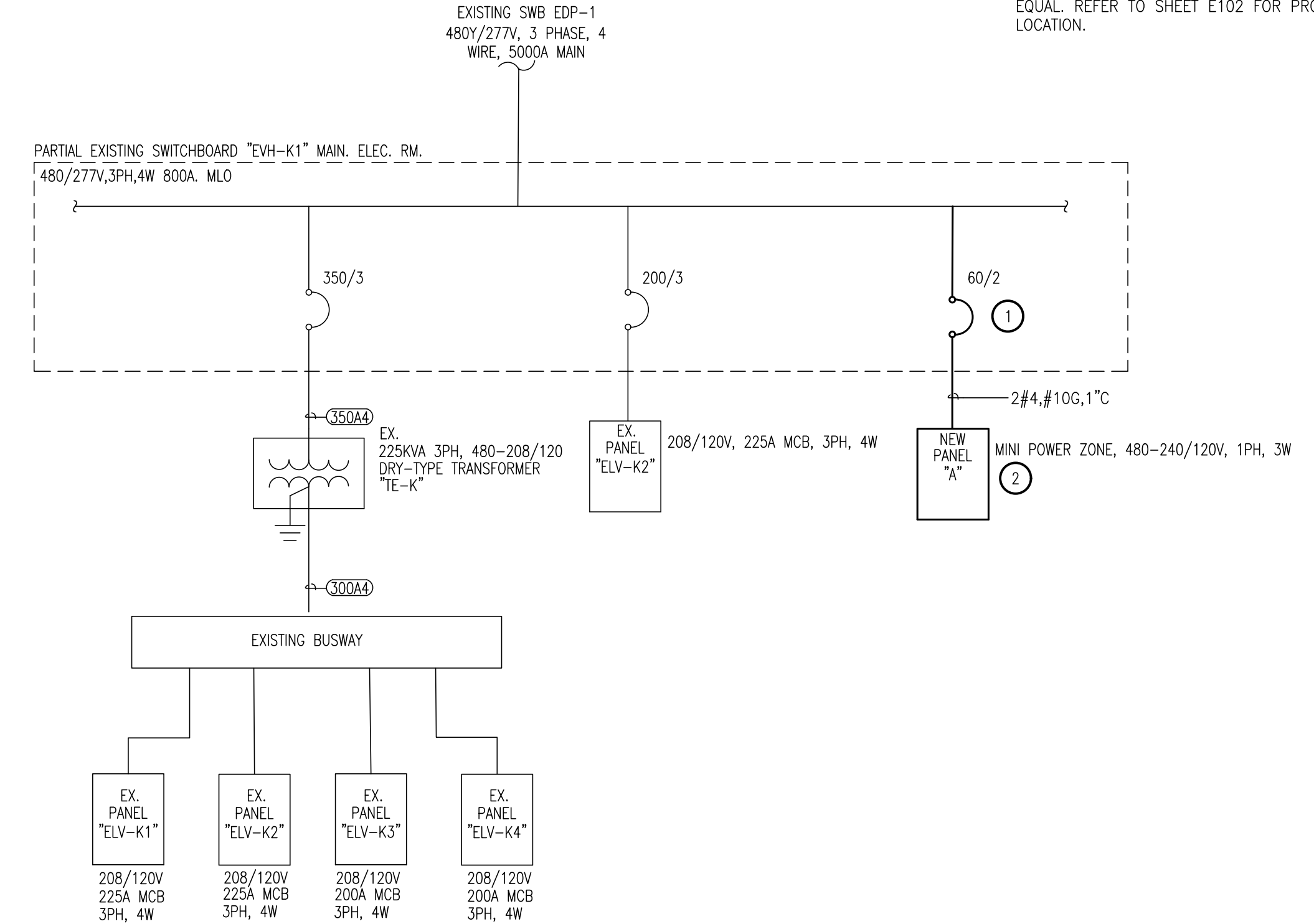
VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	180		RECEPTACLE	20/1	1	A	2	20/1	LIGHTING	240	0	
0	180		RECEPTACLE	20/1	3	B	4	20/1	EXTERIOR LIGHTING	390	0	
0	2430		RECEPTACLE	30/2	5	A	6	20/1	SPACE	0	0	
0	2430		"	-	7	B	8	20/1	SPACE	0	0	
0	0		SPARE	20/1	9	A	10	20/1	SPACE	0	0	
0	0		SPARE	20/1	11	B	12	20/1	SPACE	0	0	
0	0		SPARE	20/1	13	A	14	20/1	SPACE	0	0	
0	0		SPARE	20/1	15	B	16	20/1	SPACE	0	0	
0	0		SPARE	20/1	17	A	18	20/1	SPACE	0	0	
0	0		SPARE	20/1	19	B	20	20/1	SPACE	0	0	
0	0		SPARE	20/1	21	A	22	20/1	SPACE	0	0	
0	0		SPARE	20/1	23	B	24	20/1	SPACE	0	0	

VA:L (LIGHTING)	630	CONNECTED	788	DEMAND
VA:R (RECEPTACLES)	5220	CONNECTED	5220	DEMAND
VA:O (OTHER)	0	CONNECTED	0	DEMAND
VA: TOTAL	5850	CONNECTED	6008	DEMAND
AMPS: TOTAL	24	CONNECTED	25	DEMAND

L	R	O	TOTAL	VA =	AMPS CONNECTED TO A PHASE @ 120 VOLTS
240	2610	0	2850	VA =	24
390	2610	0	3000	VA =	25
630	5220	0	5850	VA	

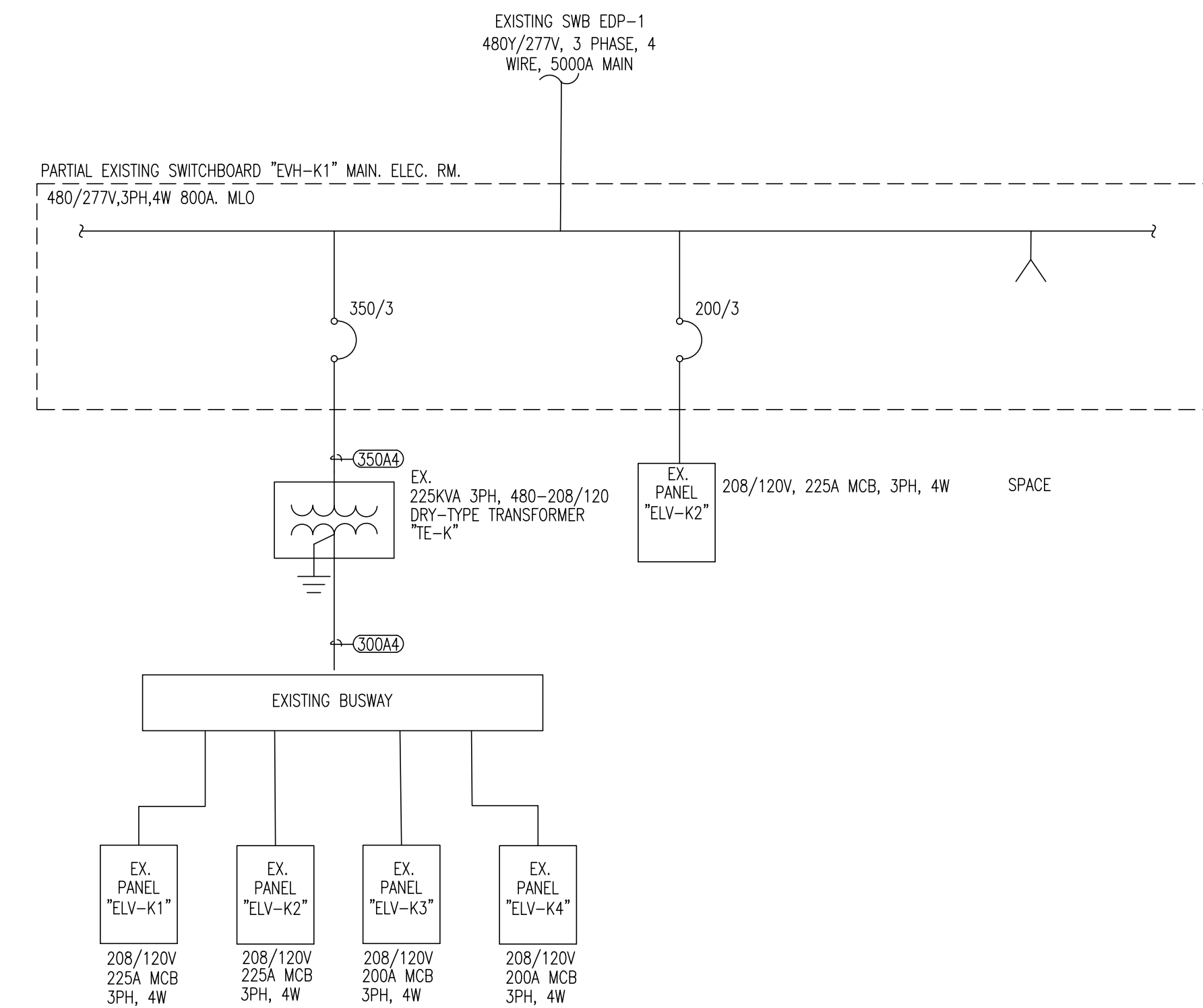
KEY NOTES: ①

- FURNISH AND INSTALL NEW 60A/2P BREAKER IN EXISTING SPACE. CIRCUIT BREAKER TO MATCH EXISTING SHORT CIRCUIT RATING.
- FURNISH AND INSTALL NEW MINI POWER-ZONE UNIT SUBSTATION, SQUARE D #MPZB15540F OR EQUAL. REFER TO SHEET E102 FOR PROPOSED LOCATION.



02 PROPOSED PARTIAL ONE-LINE DIAGRAM

N.T.S.



01 EXISTING PARTIAL ONE-LINE DIAGRAM

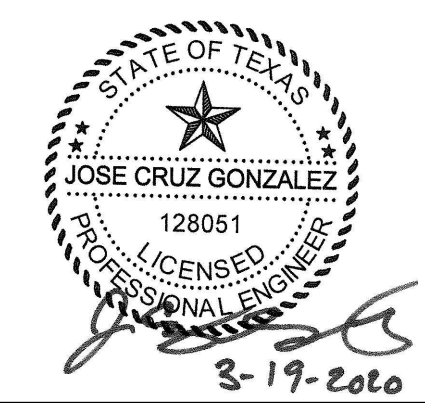
N.T.S.

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78641



HALFF
 5000 WEST MILITARY, SUITE 100
 McALLEN, TEXAS 78503
 TEL: (361) 664-4822
 FAX: (361) 664-4822
 TBP# FIRM # 512

Revision No.	Date	Description
1	04/07/2020	ADDENDUM 2



Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	G.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title:	ELECTRICAL SCHEDULES

Sheet Number
E104

File Name: I:\34000s\34015\004\WEP\CADD\E103-SC-34015.004.dwg
 Current Tab (Layout): ELECTRICAL SCHEDULES User: AMZ281
 Printed Date: 4/7/2020 3:01:18 PM



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

April 7, 2020

Re: [Addendum No. 3](#)

RFB No: [2019-267-04-15-ABV](#)

Hidalgo County - [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Dear Bidder:

Attached you will find **ADDENDUM NO. 3**, in connection with **“HIDALGO COUNTY”** Request for Bids (RFB) for [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Please add this **ADDENDUM NO. 3** to your response, to permit your company to submit a complete packet. See original packet LEGAL NOTICE page 3, paragraph 4 number 9.

[Acknowledge receipt of ADDENDUM NO. 3](#) by signing and returning this notice to us VIA E-MAIL TO: alexandra.vela@co.hidalgo.tx.us.

If you do not receive all two (2) pages of **ADDENDUM NO. 3** please notify us immediately at (956) 318-2626 ext-4865.

Please be advised that this **ADDENDUM NO. 3** will complete your response for *Hidalgo County* [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#).

Thank you for your prompt attention to this matter.

BY: Alexandra Vela
Alexandra Vela, Contract Specialist II
Hidalgo County Purchasing Department

BY: _____
ADDENDUM NO. 3
ACKNOWLEDEMENT OF RECEIPT

BY: _____
Print Name

Enclosure

ADDENDUM NO. 3

April 7, 2020

RFB No. 2019-267-04-15-ABV

Hidalgo County

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

PLEASE NOTE THE FOLLOWING CHANGES:

RFB PRE-BID CONFERENCE Date: ~~Wednesday, April 08, 2020 at 3:30 P.M.~~ has been changed:

1. New Pre-Bid Conference Setting: [Wednesday, April 08, 2020 at 3:30 P.M.](#)
via Google Hangouts:

- **Join Hangouts Meet:** meet.google.com/rjz-myxx-ihm
- **Join by phone:** +1 219-301-2120 PIN: 744 799 057#

Please add this Addendum No 3 to your Response (RFB) so as to permit your company to submit a complete response.

I, _____, acknowledge receipt of ADDENDUM NO. 3 dated, April 7, 2020 *RFB NO.:2019-267-04-15-ABV- [Hidalgo County “Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)*

Printed Name

Date

NOTE: PLEASE SUBMIT THIS ADDENDUM WITH YOUR RESPONSE IN ORDER TO COMPLETE YOUR RESPONSE.



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

April 7, 2020

Re: [Addendum No. 4](#)

RFB No: [2019-267-04-15-ABV](#)

Hidalgo County - [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Dear Bidder:

Attached you will find **ADDENDUM NO. 4**, in connection with **“HIDALGO COUNTY”** Request for Bids (RFB) for [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#)

Please add this **ADDENDUM NO. 4** to your response, to permit your company to submit a complete packet. See original packet LEGAL NOTICE page 3, paragraph 4 number 9.

[Acknowledge receipt of ADDENDUM NO. 4](#) by signing and returning this notice to us VIA E-MAIL TO: alexandra.vela@co.hidalgo.tx.us.

If you do not receive all two (2) pages of **ADDENDUM NO. 4** please notify us immediately at (956) 318-2626 ext-4865.

Please be advised that this **ADDENDUM NO. 4** will complete your response for *Hidalgo County* [“Construction of Bus Barn for Hidalgo County Sheriff’s Office”](#).

Thank you for your prompt attention to this matter.

BY: Alexandra Vela
Alexandra Vela, Contract Specialist II
Hidalgo County Purchasing Department

BY: _____
ADDENDUM NO. 4
ACKNOWLEDEMENT OF RECEIPT

BY: _____
Print Name

Enclosure

ADDENDUM NO. 4

April 7, 2020

RFB No. 2019-267-04-15-ABV

Hidalgo County

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

PLEASE NOTE THE FOLLOWING CHANGES:

Typed written bidding RFI’s shall be e-mailed to alexandra.vela@co.hidalgo.tx.us. RFI’s **will not be answered by phone**. NO HAND WRITTEN RFI’S will be processed/answered. All inquiries shall be forwarded by ~~5:00 PM Monday April 08, 2020~~. Responses to said inquiries will be sent to all applicants via facsimile by no later than ~~5:00 p.m. Wednesday April 10, 2020~~. Inquiries beyond this date will not be responded to. Contact project architect’s office for copies of Addenda. All bidders who paid a deposit will be required to return Addenda as part of the Construction Documents in order to receive full deposit or refund.

1. **NEW All inquiries shall be forwarded by 5:00 PM Friday April 10, 2020. Responses to said inquiries will be sent to all applicants via facsimile by no later than 5:00 p.m. MONDAY April 13, 2020.**

Please add this Addendum No 4 to your Response (RFB) so as to permit your company to submit a complete response.

I, _____, acknowledge receipt of ADDENDUM NO. 4 dated, April 8, 2020 *RFB NO.:2019-267-04-15-ABV- Hidalgo County “Construction of Bus Barn for Hidalgo County Sheriff’s Office ”*

Printed Name

Date

NOTE: PLEASE SUBMIT THIS ADDENDUM WITH YOUR RESPONSE IN ORDER TO COMPLETE YOUR RESPONSE.



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

April 7, 2020

Re: Addendum No. 5

RFB No: 2019-267-04-15-ABV

Hidalgo County - “Construction of Bus Barn for Hidalgo County Sheriff’s Office”

Dear Bidder:

Attached you will find **ADDENDUM NO. 5**, in connection with **“HIDALGO COUNTY”** Request for Bids (RFB) for “Construction of Bus Barn for Hidalgo County Sheriff’s Office”

Please add this **ADDENDUM NO. 5** to your response, to permit your company to submit a complete packet. See original packet LEGAL NOTICE page 3, paragraph 4 number 9.

Acknowledge receipt of ADDENDUM NO. 5 by signing and returning this notice to us VIA E-MAIL TO: alexandra.vela@co.hidalgo.tx.us.

If you do not receive all two (3) pages of **ADDENDUM NO. 5** please notify us immediately at (956) 318-2626 ext-4865.

Please be advised that this **ADDENDUM NO. 5** will complete your response for *Hidalgo County* “Construction of Bus Barn for Hidalgo County Sheriff’s Office”.

Thank you for your prompt attention to this matter

BY: Martha L. Salazar

Martha L. Salazar, CPPB
Hidalgo County Purchasing Agent

BY: _____
ADDENDUM NO. 5
ACKNOWLEDEMENT OF RECEIPT

BY: _____
Print Name

Enclosures
MLS/abv

ADDENDUM NO. 5

April 13, 2020

RFB No. 2019-267-04-15-ABV

Hidalgo County

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

PLEASE NOTE THE FOLLOWING CHANGES:

1. **Add Memorandum dated April 13, 2020 to the Procurement Packet:**

**New Bid-Opening Setting: Wednesday, April 15, 2020 at 9:30 A.M.
via Google Hangouts:**

- **Join Hangouts Meet:** <https://meet.google.com/yqs-kvwg-ypg?hs=122>
- **Join by phone:** +1 929-287-3362 PIN: 145 136 330#
- **Watch live Stream:**
<https://stream.meet.google.com/stream/d463a117-0d75-4370-ac53-05812cd57275>

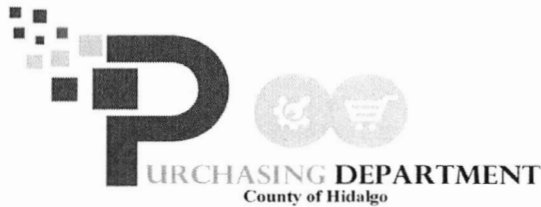
Please add this Addendum No 5 to your Response (RFB) so as to permit your company to submit a complete response.

I, _____, acknowledge receipt of ADDENDUM NO. 5 dated, April 13, 2020 ***RFB NO.:2019-267-04-15-ABV- Hidalgo County “Construction of Bus Barn for Hidalgo County Sheriff’s Office”***

Printed Name

Date

NOTE: PLEASE SUBMIT THIS ADDENDUM WITH YOUR RESPONSE IN ORDER TO COMPLETE YOUR RESPONSE.



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

MEMORANDUM

TO: All participants

FROM: Martha L. Salazar, CPPB

DATE: Monday, April 13, 2020

SUBJECT: Video conference for Bid Openings for the date of April 15, 2020

Given the fluidity of the COVID-19 pandemic, and in accordance with the Shelter in Place Order by Hidalgo County Judge, Richard F. Cortez, the Purchasing Department will limit the amount of personnel in our conference room during Bid Openings. Bid Openings for **April 15, 2020, only designated personnel will be allowed in the conference room.** Our Bid Openings will continue to be held at 9:30am. All other personnel may view the Bid Openings live online via a Google Hangouts:

- **Join Hangouts Meet:** <https://meet.google.com/yqs-kvwg-ypg?hs=122>
- **Watch live stream:** <https://stream.meet.google.com/stream/d463a117-0d75-4370-ac53-05812cd57275>
- **Join by phone:** +1 929-287-3362 PIN: 145 136 330#

While we work on a more permanent solution, the links will be shared with all participants who requested a procurement packet directly from our office.

The above links may be shared with others who you wish to join the video conference call. To ensure no disturbances, all participants on the video conference call will be on mute, with the exception of the host (the Purchasing Department).

For vendors who plan on submitting a response, **please plan accordingly and give yourself ample time as we will limit the number of people allowed in our lobby.** Our office will not be responsible for responses that are not accepted past 9:30am due to the number of people in our lobby.

MLS/abv

CC: Raul Garcia Jr., Halff Associates, Inc.
Carolyn Thornton, County Clerk's Office



2812 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

April 7, 2020

Re: **Addendum No. 6**

RFB No: **2019-267-04-15-ABV**

Hidalgo County - "Construction of Bus Barn for Hidalgo County Sheriff's Office"

Dear Bidder:

Attached you will find **ADDENDUM NO. 6**, in connection with "**HIDALGO COUNTY**" Request for Bids (RFB) for **"Construction of Bus Barn for Hidalgo County Sheriff's Office"**

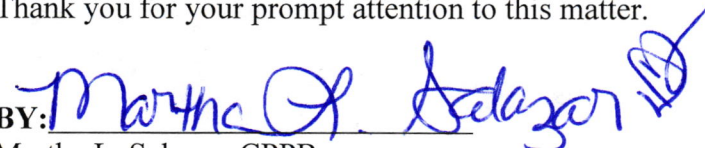
Please add this **ADDENDUM NO. 6** to your response, to permit your company to submit a complete packet. See original packet LEGAL NOTICE page 3, paragraph 4 number 9.

Acknowledge receipt of ADDENDUM NO. 6 by signing and returning this notice to us VIA E-MAIL TO: alexandra.vela@co.hidalgo.tx.us.

If you do not receive all pages of **ADDENDUM NO. 6** please notify us immediately at (956) 318-2626 ext-4865.

Please be advised that this **ADDENDUM NO. 6** will complete your response for **Hidalgo County "Construction of Bus Barn for Hidalgo County Sheriff's Office"**.

Thank you for your prompt attention to this matter.

BY: 
Martha L. Salazar, CPPB
Hidalgo County Purchasing Department

BY: _____
ADDENDUM NO. 6
ACKNOWLEDEMENT OF RECEIPT

BY: _____
Print Name

Enclosure

ADDENDUM NO. 6

April 13, 2020

RFB No. 2019-267-04-15-ABV

Hidalgo County

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

PLEASE NOTE THE FOLLOWING CHANGES:

The following pages are a list of changes made to the plans and clarifications to questions asked.

Please add this Addendum No 6 to your Response (RFB) so as to permit your company to submit a complete response.

I, _____, acknowledge receipt of ADDENDUM NO. 6 dated, April 13, 2020 *RFB NO.:2019-267-04-15-ABV- Hidalgo County “Construction of Bus Barn for Hidalgo County Sheriff’s Office ”*

Printed Name

Date

NOTE: PLEASE SUBMIT THIS ADDENDUM WITH YOUR RESPONSE IN ORDER TO COMPLETE YOUR RESPONSE.



5000 West Military, Ste 100
McAllen, Texas 78503
(956) 664-0286
Fax (956) 664-0282

Attachment: Geotechnical Investigation

Copies: File



**GEOTECHNICAL INVESTIGATION
FOR THE
HIDALGO COUNTY SHERIFF'S OFFICE BUS BARN PROJECT
HIDALGO COUNTY, TEXAS**

**Prepared For:
Hidalgo County Sheriff's Office / Hidalgo County Precinct No. 4**

**Prepared By:
L&G Consulting Engineers, Inc.
(L&G Engineering Laboratory – A Division of L&G)
Mercedes, Texas 78570
[Texas Registered Engineering Firm F-4105]**

**L&G Project No. G19009
October 30, 2019**



**David A. Saenz, P.E., C.F.M.
Project Manager / Project Engineer**

10/30/2019

INTRODUCTION.....	1
GENERAL PROJECT OVERVIEW	1
Project Description	1
Scope and Limitations of Investigation.....	2
EXISTING SURFACE AND SUB-SURFACE CONDITIONS	2
Site Location / Description	2
Geology.....	2
Soil Survey	3
Rainfall.....	4
FEMA Flood Zone	4
SITE INVESTIGATION.....	4
Soil Borings and Laboratory Tests.....	4
Subsurface Stratigraphy	5
Water Strikes.....	5
GEOTECHNICAL BORING ANALYSIS (LAB TESTING).....	5
Moisture Content	5
Plasticity Index	5
Particle Size Analysis (Determination of Fines Content)	6
Sulfate Content of Soils (Concrete Structures)	6
FOUNDATION ANALYSIS & RECOMMENDATIONS	6
Proposed Project Foundation System Information	6
Deep Foundation Capacity (Capacity Curves).....	6
Design and Analysis Background Information (Pavement – Access Drive).....	7
Index Testing & Soil Classification (Subgrade Soils)	7
Subgrade Analysis (Pavement – Access Drive)	8
Pavement Section Recommendations.....	8
Pavement Material Specification Recommendations	8
Flexible Base Material	8
Compacted Subgrade.....	9
GENERAL CONSTRUCTION CONSIDERATIONS	9
Deep Foundation Recommendations (Drilled Shafts)	9
Site Grading Recommendations	9
Site Drainage Recommendations.....	9
Site Preparation Recommendations.....	9
Embankment Recommendations.....	10
Select Fill & Structural Fill Recommendations	10
Excavation and Trenching Recommendations.....	12
Miscellaneous Pavement Recommendations	12
REFERENCES.....	13
APPENDIX A – FIGURES	A
APPENDIX B – BORING LOGS	B
APPENDIX C – FOUNDATION CAPACITY CURVES.....	C
APPENDIX D – INFO PROVIDED BY CLIENT (REFERENCE).....	D

Scope and Limitations of Investigation

This report has been prepared in general accordance with accepted geotechnical engineering practices for the subject project site and the anticipated construction. No specific warranty program or other special standards, except acceptable industry standards for the general South Texas area, were followed during the course of this investigation and analysis. This geotechnical report is intended for use by **HCSO**, and any direct representatives or affiliates. This geotechnical report may not contain sufficient information for purposes of other parties, or other uses in determining construction means and methods.

The strata, shown on the boring logs included in Appendix B, represent the subsurface conditions at each boring location at the time of our investigation. These strata designate approximate boundaries between subsurface materials; however, their actual transition may be gradual or may occur at varying depths. Variations may occur due to unexpected deposits of soft clays, silts or other undesirable soil material not detected through our investigation. It should be noted that the exploratory boring was performed within the limits of the proposed project as approved and agreed upon by all previously noted parties prior to the commencement of our field operations.

The benchmarks of this geotechnical study are to:

1. explore the general existing subsurface conditions at the site
2. evaluate the relevant engineering properties of the subsurface materials
3. provide analysis and foundation capacity curves for proposed drilled shaft foundations
4. provide analysis and pavement recommendations for proposed access drive and floor

The scope of this geotechnical engineering study does not include an environmental assessment of the air, soil, rock or water conditions on or adjacent to the site. No environmental opinions are presented in this report. If environmental clearances are needed prior to construction, please contact our offices for assistance in this matter.

EXISTING SURFACE AND SUB-SURFACE CONDITIONS

Site Location / Description

The project site is located in Edinburg, Texas, approximately three-quarter (0.75) miles east of Interstate 69 (I-69), and just north of El Cibolo Rd at the existing Hidalgo County Sheriff's Office. The borings were drilled as close as possible to the locations specified by the Client as shown in Appendix A. No surveyor was contracted to determine the exact coordinates for the borings, as this was not a part of the scope of work for the project; however, field handheld GPS coordinates were retrieved and are noted on the boring logs in Appendix B. Elevations were determined using approximate data as referenced from Google Earth. The property had minimal vegetation at the time of drilling (short grass).

Geology

The Geologic Atlas of Texas, McAllen-Brownsville Sheet, dated 1976, indicates that the subject site is located within the Goliad Formation of the Tertiary epoch (Pliocene period). The description of the materials is as follows:

Goliad Formation (Pg) – “Clay, sand, sandstone, marl, caliche, limestone, and conglomerate; clay, commonly light shades of pink and green, calcareous concretions; sand and sandstone, medium to very coarse grained, in part crossbedded, mostly quartz, some black and red chert; conglomerate, black chert and dark siliceous granules and pebbles in calcareous (caliche) matrix; sandstone and conglomerate locally well bedded; marl and limestone poorly bedded or massive; Tertiary vertebrae and reworked Cretaceous invertebrate fossils fairly common; thickness up to 600 feet”.

Soil Survey

According to the Soil Survey of Hidalgo County, Texas, published by the United States Department of Agriculture, the proposed site encompasses the following soil map unit(s) along the alignment as shown in Table 1 & Figure 2.

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
3	Brennan fine sandy loam, 0 to 1 percent slopes	SC-SM	0.3	40.6%
4	Brennan fine sandy loam, 0 to 3 percent slopes	SC-SM	0.4	59.4%
Totals for Area of Interest			0.7	100.0%

Table 1 - Soil Survey Map Units for Project Limits

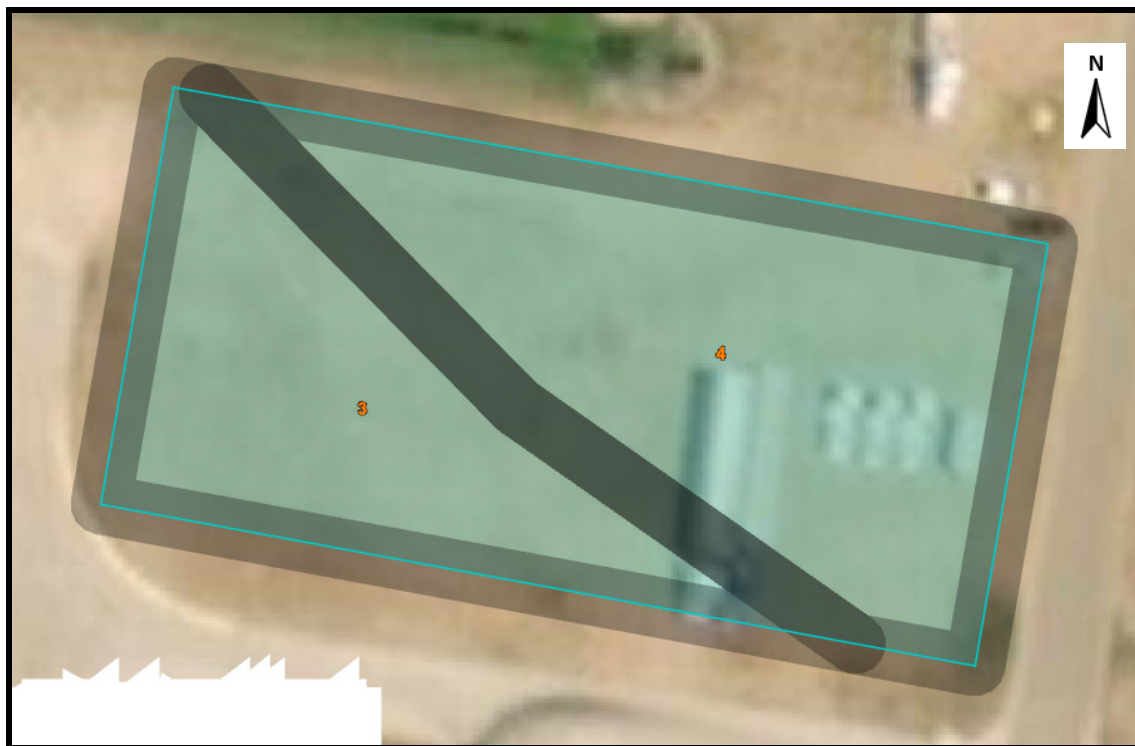


Figure 2 - Soil Survey Mapping (Showing General Project Location)

The soils map units for the most prevalent soils, as referenced from the Soil Survey of Hidalgo County, Texas, are described as follows:

Brennan Fine Sandy Loam (0 to 1 and 0 to 3 percent slopes) (Soil Map Units #3 & 4) –This unit is well drained with a moderate available water capacity (about 8.5 to 8.7 inches) and moderate permeability. It is non-saline to slightly saline (about 1.0 to 4.0 mmhos/cm) with no frequency of flooding or ponding. Soil Survey shows this soil unit to have average plasticity indices (PI = 10) and percent of sand (% coarse particle) of 66 (primarily lean clayey silty sand – USCS SC-SM). No major limitations in terms of the principal construction scope were noted with regard to these soils.

Rainfall

The mean annual precipitation for this area of Hidalgo County is approximately 19-24 inches, as reported by the U.S. Department of Agriculture Soil Conservation Service. Our geotechnical investigation, performed in October 2019, was conducted during a non drought condition (D0, as noted by the National Weather Service and U.S. Drought Monitor). The National Oceanic and Atmospheric Administration (NOAA) reports for the subject dates indicated that no significant rainfall observations (at least one inch) occurred during our exploration.

FEMA Flood Zone

The project site was referenced against the FEMA Flood Insurance Rate Maps (FIRM) included on the FEMA website (<https://msc.fema.gov/portal/home>). The site was found on Community-Panel Number 480334 0225 B with Effective Date noted as January 2, 1981. The project site area was noted as Zone C (areas of minimal flooding synonymous with areas outside the SFHA and higher than the elevation of the 0.2-percent-annual-chance flood).

SITE INVESTIGATION

Soil Borings and Laboratory Tests

Subsurface conditions at the site were evaluated through two (2) geotechnical borings (designated as B-#) drilled to a depth of thirty-five (35) feet below natural ground elevation at the locations shown on Figure 2 of Appendix A. The soil borings were drilled and sampled in general accordance with American Society of Testing Materials Procedures (ASTM) D1452 and D1586 using a truck mounted drilling rig (Simco 2800 HS (HT)) and solid stem augers.

Standard Penetration Testing (SPT)

As part of the sampling procedures, split barrel (spoon) and Standard Penetration Tests (SPT) were performed and recorded. Standard Penetration Test results are noted on the boring log as blows per foot or twelve (12) inch increment. The sampler was advanced through three (3) consecutive six inch increments; however, the first six inch increment is considered the seating drive, which eliminates the effect of cuttings or disturbances on the test result. The sum of the blows for the last two six (6) inch increments is considered the “standard penetration resistance value” or “field N-value”. Where hard or very dense materials were encountered, the SPT was terminated and noted on the boring log when one of the following situations occurred:

- 1. a total of 50 blows were applied on one six inch increment*
- 2. a total of 100 blows were applied during the test*
- 3. no advancement of the sampler was observed during the application of ten (10) consecutive blows from the hammer*

Representative portions of all samples (SPT/Split Barrel Sampling) were identified, packaged, sealed in containers to reduce moisture loss, and transported to our laboratory for subsequent testing. In the laboratory, each sample was evaluated and visually classified by a member of our geotechnical engineering staff. The properties of each stratum were evaluated by a series of laboratory index tests. A summary of the laboratory data and their corresponding depths are presented on the boring logs in Appendix B.

Samples will be retained in our laboratory for 30 days after submittal of this report. Other arrangements may be provided at the request of the Client to hold the samples through the construction process.

Subsurface Stratigraphy

The Soil Strata and Description are provided on the boring logs attached to this report and are a typical summarized representation of the site stratigraphy. The lines designating the interfaces between strata on the boring logs represent approximate boundaries. Transitions between strata may be gradual and may occur at varying depths. Detailed subsurface stratigraphy can be found on the boring logs in Appendix B.

Water Strikes

Water strikes were encountered at approximately 17-19 feet below existing ground (Elev. +70 to +72) at the boring locations. It should be noted that fluctuations in groundwater levels are influenced by variations in rainfall and surface water run-off from season to season. The construction process itself may also cause variations in the groundwater level. If the water level is critical to the construction process, **L&G** recommends that the Contractor check the subsurface water conditions immediately prior to construction excavation through the installation of piezometer wells.

GEOTECHNICAL BORING ANALYSIS (LAB TESTING)

Moisture Content

The moisture content of a soil is defined as the ratio of the weight of the water in the sample to the dry weight of the soil sample. The moisture contents for the samples obtained as part of our geotechnical exploration were performed in compliance with ASTM procedure D2216 (and Tex-103-E). A comprehensive list of all moisture contents by corresponding depth can be found on the boring logs.

Plasticity Index

The Plasticity Index (PI) is defined as the difference between the liquid limit and the plastic limit of a soil. These limits are commonly referred to as the Atterberg limits, which describe the consistency of soils with respect to their varying moisture contents. The plasticity indices for the

samples obtained as part of our geotechnical exploration were performed in compliance with ASTM procedure D4318 (and Tex-104-E thru Tex-106-E). A comprehensive list of all plasticity indices by corresponding depth can be found on the boring logs.

Particle Size Analysis (Determination of Fines Content)

The standard grain size analysis is used to determine the relative proportions of different grain sizes as they are distributed along a range of different sized sieves. The minus 200 sieve analysis is used commonly as a tool for soil classification and identification using the Unified Soils Classification System. Results for this test are reported as a percentage of soil passing the No. 200 sieve, which has openings 0.075mm wide. The particle size analyses for the samples obtained as part of our geotechnical exploration were performed in compliance with ASTM procedure D1140 (and Tex-111-E). A comprehensive list of all fines contents by corresponding depth can be found on the boring logs.

Sulfate Content of Soils (Concrete Structures)

The presence of high concentrations of water-soluble sulfates (SO₄) in soils can be detrimental to concrete structures in direct contact. Concrete exposed to these sulfate rich soils (buried concrete structures, foundations, slabs-on-grade) are vulnerable to deterioration in the form of expansion, cracking, and spalling. Sulfate testing was performed in accordance with TxDOT Tex-145-E at all boring locations. The results of the sulfate testing are as follows (see Table 2):

Boring No.	*Sample Depth	Sulfate Content (ppm)
B-01	4.5 – 6.0 ft	120
B-02	13.5 – 15.0 ft	180

Table 2 - Sulfate Content Testing
**all depths are referenced from existing natural ground*

FOUNDATION ANALYSIS & RECOMMENDATIONS

Proposed Project Foundation System Information

The proposed project involves the development of a 3-sided steel structure to be used as a Bus Barn (bus storage facility). In addition, the proposed project includes development of a drive and general structure floor to provide access to this structure. Our understanding from coordination with the Client is that the steel structure will be supported on drilled shaft foundations and the floor as well as access drive will be comprised of gravel / caliche.

Deep Foundation Capacity (Capacity Curves)

Standard Penetration Test (SPT) test results were used to calculate foundation capacity curves for various deep foundation options. Deep foundation options for use on this project could include various diameters of reinforced concrete drilled shafts. Design curves for four drilled shaft sizes most likely to be used (18, 24, 30, and 36 inch diameter) have been provided in Appendix C. If alternate foundation types or sizes are required for the project, **L&G** can provide alternate curves as needed. Capacity curves were generated through the Texas Department of Transportation (TxDOT) WINCORE software program (version 3.1). The foundation capacities

include the effects of point bearing and skin friction to account for total foundation capacity. The capacity curves were generated incorporating a disregard of the top 3 feet of each boring.

It is imperative for designers to note that the depth of foundation determined by way of the foundation capacity curves provided is a generalized model. Final foundation tip elevations should be determined with engineering judgment and modified based on each individual case. During final foundation design the foundation designer will need to take into account the final elevation of borings, final elevation of finished grade (groundline) at foundation elements and any additional disregarded depth that may be deemed necessary.

Design and Analysis Background Information (Pavement – Access Drive)

The pavement recommendations contained in this report were limited to the data recovered from the field and laboratory testing performed for the borings. No traffic loading data was presented for the future proposed drive.

Our recommendations are based on design procedures found in the Army Corps of Engineers Manuals EM 1110-3-131 (Flexible Pavement Design), and our experience with similar soils and site conditions. The design index selection utilized in the design process was based on classification of the area as a motor pool / motor storage area for pneumatic-tired vehicles (Design Index selected was 2).

Index Testing & Soil Classification (Subgrade Soils)

Soils slated for access drive subgrade on this project (in the upper 0 to 5 feet of soil profile as per Client directive) were investigated at this site for overall index properties. Index tests (Moisture Content, Atterberg Limits and Particle Size Analysis) were utilized to verify existing soil types (verification of visual inspection). The results of the tests were used to properly classify each soil sample in accordance with the Unified Soil Classification System (USCS) as detailed in ASTM D2487 (TxDOT Tex-142-E). The results of the testing are provided on the boring logs in Appendix B. A summary of the results is provided in the previous Table 3.

Upper Soil Layer (Depths – 0 to 5 ft)				
Boring No.	LL	PI	-200	USCS Class
B-01	32	19	42	SC
B-02	29	16	51	CL

Table 3 – Subgrade Index Testing & Soil Classification (Upper Soils)

In terms of usability of the existing soils for Access Drive / Facility Floor subgrade, the soils do generally meet the recommended PI of 10 or greater as referenced from the National Lime Association and PI of 12 or greater as referenced from the US Army Corps of Engineers (USACOE) for recommendation of lime stabilization.

Subgrade Analysis (Pavement – Access Drive)

The existing subgrade index properties (plasticity index and grain size) were used to correlate the Modulus of Subgrade Reaction (k) and California Bearing Ratio (CBR) values of the subgrade. These values were then applied to the corresponding design procedures, according to the applicable Army Corps of Engineers manuals to determine the recommended minimum pavement thickness for flexible pavement designs. A subgrade k value of **200 pci** and CBR value of **10** was utilized in the pavement designs.

Pavement Section Recommendations

After completing the pavement designs and considering Client requested gravel / caliche design only, **L&G** has provided the following recommendations within Table 4 for pavement thickness:

Materials	Flexible Pavement Design Recommendation (Parking Lot)
Flexible Base Material (Crushed Limestone or Caliche)	8.0 in.
Compacted Subgrade	6.0 in.

Table 4 – Flexible Pavement Recommendation

Pavement Material Specification Recommendations

Flexible Base Material

Flexible base material shall be comprised of either crushed limestone or caliche base material. The crushed limestone material shall meet the requirements of TxDOT 2014 Specification Item 247 Type A, Grade 1 as noted in the “General Construction Considerations – Select Fill & Structural Fill Recommendations” section of this report. The caliche base material shall meet the requirements of TxDOT 2014 Specification Item 247 Type E, Grade 4 as approved by the engineer. Caliche base shall conform to the gradation and properties requirements noted in the “General Construction Considerations – Select Fill & Structural Fill Recommendations” section of this report before lime or admixtures are added. We recommend treating the caliche base material with two (2) percent lime or portland cement by weight. Lime and cement treatments shall be in compliance with all applicable sections of TxDOT Item 260 and 275 specifications.

- Additional Recommendations: Although a gravel / caliche design has been requested we offer the following additional recommendations for consideration. In order to ensure enhanced sealing of the base layer we also recommend a Prime Coat be applied immediately atop the base (such as MC-30) in accordance with TxDOT Item 310 specification as well as a One to Two Course Surface Treatment in accordance with TxDOT Item 316 specification. For this surface treatment, we recommend that selection of asphalt cement (or emulsified asphalt) and aggregate be based on the season of application and type of application.

Compacted Subgrade

The existing subgrade layer beneath the upper layer (caliche/limestone) shall be compacted and moisture conditioned to a minimum 95 percent of the maximum dry density as determined by ASTM D698 or Tex-114-E (and tested in the field in accordance and compliance with ASTM 6938 or Tex-115-E).

GENERAL CONSTRUCTION CONSIDERATIONS

Deep Foundation Recommendations (Drilled Shafts)

L&G recommends all Drilled Shaft construction be in accordance with the requirements of TxDOT 2014 ‘Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges’, Item 416 – Drilled Shaft Foundations. Client should be advised that soils drilled shaft excavations may present the need for special excavation methods including the use of casing, slurry or both casing and slurry simultaneously to maintain stable excavations. Overall, the Contractor shall utilize an excavation method that is suitable to field conditions and that will result in a stable excavation. **L&G** further recommends that prior to construction a Drilling Construction Plan/Procedure be provided by the Contractor (to to the Engineer of Record) to ensure adequate planning and procedures based on site soil conditions. In terms of concrete, we recommend special attention be made to minimum/maximum slump of concrete required for drilled shafts (and requirements of slump retention). If differing site conditions (unanticipated or unusual strata) are encountered during construction, **L&G** shall be contacted to provide review and possible re-analysis if so required.

Site Grading Recommendations

Site grading plans can result in changes in almost all aspects of foundation recommendations. We have prepared the foundation recommendations based on the existing ground surface and the stratigraphic conditions encountered at the time of our study. We recommend gradual slopes away from any foundations at structure locations to assist with site drainage, ponding, and any potential shrink/swell issues. We recommend the use of 3:1 slopes (or flatter) for general site grading.

Site Drainage Recommendations

Drainage is one of the most important aspects to be addressed to ensure the successful performance of any foundation. Positive surface drainage should be implemented prior to, during and maintained after construction to prevent water ponding at or adjacent to the proposed facilities. We advise that construction drainage programs be implemented to assist with standing waters from precipitation, general surface runoff or other moisture intrusion. It is recommended that the site design include site drainage features to channel runoff away from the proposed site location and most importantly away from all foundations.

Site Preparation Recommendations

The proposed site areas and all areas used to support foundation construction should be cleared and grubbed of all vegetation, organic topsoil and other miscellaneous debris up to a minimum of two (2) feet beyond the proposed site perimeters. This shall include the removal of all trees,

brush, roots, weeds, or other organic debris that will interfere with construction. After clearing, the contractor should follow the earthwork procedures outlined in the ‘Foundation Recommendations’ section of this report. Any soft and/or compressible soft spots noted during compaction activities shall be over-excavated and replaced with Select Fill. All placements of Select Fill and Structural Fill shall be in accordance with the “General Construction Considerations – Select Fill & Structural Fill Recommendations” section of this report. Any excavation/backfill activities should be observed by **L&G** representatives to document subgrade preparation.

Embankment Recommendations

L&G recommends that Embankment Fill Sections utilized on this project be constructed in accordance with the requirements of TxDOT 2014 ‘Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges’, Item 132 – Embankment. Furthermore, **L&G** recommends the following controls be followed in accordance with TxDOT Pharr District Master General Notes:

- ‘Embankment (DENS CONT) shall be Type C with a max. PI of 40. Material used as embankment material in the top two feet below the bottom of Flexible Base shall meet the following requirements based on preliminary tests and such other tests found necessary by the Engineer.
 - The material shall be such as to produce a well-bonded embankment and shall have a minimum PI of 8 and a maximum PI of 30.’

Compaction method is recommended for Embankment Fill Sections and shall be Density Controlled in accordance with the requirements of TxDOT 2014 ‘Standard Specifications’, Item 132 – Embankment.

Select Fill & Structural Fill Recommendations

Materials used for **Select Fill** (General Site Grading) shall meet the following requirements:

1. Soils classified according to the Unified Soils Classification System as SM, SC, GM, GC, CL, ML and combinations of these soils. These soils shall be free of organic material, topsoil, debris, or other deleterious material that cannot be properly compacted. In addition to the USCS classification, select materials shall have a **liquid limit of less than 40 and a plasticity index between 8 and 20**.
2. Soils classified as CH, MH, OH, OL and PT, under the USCS are not considered suitable for use as select fill materials at this site.
3. **L&G** recommends additional quality control of all ‘General Site Fill’ materials as they are placed and compacted to ensure that they meet the requirements specified.

Select Fill shall be placed in lifts not to exceed 8 inches loose (6 inches compacted) and compacted to a minimum 95 percent of the maximum dry density as determined in accordance with ASTM D698. The water content of the fill shall be maintained within the range of optimum moisture to three (3) percentage points above the optimum moisture content until the fill is permanently covered. The fill should be properly compacted in accordance with these recommendations and tested for compaction as specified.

Materials used for **Structural Fill** shall meet the following requirements:

1. Soils classified as Base Material meeting the requirements of TxDOT 2014 Specification Item 247 Type E, Grade 4 - Caliche (see [Table 7](#) for specifications and req.) or Item 247 Type A, Grade 1 - Limestone (see [Table 8](#) for specifications and req.).
2. **L&G** recommends additional quality control of all Structural Fill materials as they are placed and compacted to ensure that they meet the requirements specified.

Structural Fill shall be compacted to a minimum 98 percent of the maximum dry density as determined by the ASTM D698 at moisture contents ranging between minus two (-2) and plus two (+2) percentage points of the optimum moisture content. Structural Fill shall be placed in loose lifts not to exceed 8 inches (6 inches compacted). The fill should be properly compacted in accordance with these recommendations and tested for compaction as specified.

Retained on Square Sieve	Percent Retained
2"	0
1/2"	20-60
No. 4	40-75
No. 40	70-90
Plasticity Index, max	15
Wet Ball PI, max	15
Wet Ball Mill, % max	50

Table 7 – Structural Fill - Type E Grade 4 Specifications

Retained on Square Sieve	Percent Retained
2-1/2"	0
1-3/4"	0-10
7/8"	10-35
3/8"	30-65
No. 4	45-75
No. 40	65-90
Liquid Limit, % max	40
Plasticity Index, % max	10
Wet Ball Mill, % max	40

Table 8 – Structural Fill - Type A Grade 1 Specifications

Excavation and Trenching Recommendations

If trenches or shallow excavations are to extend to or below a depth of five (5) feet, the Contractor or persons performing the trenching or shallow excavations should adhere to the current Occupational Health and Safety Administration (OSHA) guidelines on trench excavation safety and protection measures. Other industry standards may be applicable. If proposed trenching is to require excavation protection, **L&G** recommends protection be provided in accordance with the requirements of TxDOT 2014 ‘Standard Specifications for Construction and Maintenance of Highways, Streets and Bridges’, Item 402 – Trench Excavation Protection and/or Item 403 – Temporary Special Shoring.

Miscellaneous Pavement Recommendations

Adequate perimeter drainage is essential for long-term performance of the pavement structure. Infiltration of surface water from unpaved areas surrounding the pavement should be minimized. Base materials under curb and gutters should be compacted to the same requirements as other areas. If curbs or curb/gutters are used, it is recommended that these curb and gutters be extended through the base a minimum of 3 inches into the subgrade. An adequate seal should be provided at all base-asphalt interfaces. A maintenance plan is recommended for the long-term performance of paved areas. Asphaltic pavements have a tendency to strip and become oxidized with exposure to the elements. Thus cracks may become present in the pavement. It is recommended that a maintenance schedule of biannual crack sealing, fog seals and overlays every five to ten years be used over the life of the pavement.

REFERENCES

1. Jacobs, Jerry L., 1981, "Soil Survey of Hidalgo County, Texas", Washington, D.C.
2. Bureau of Economic Geology, 1976, "Geologic Atlas of Texas, McAllen-Brownsville Datasheet", Austin, TX.
3. TxDOT, 2014, "Standard Specification for the Construction of Highways, Streets, and Bridges", Austin, TX.
4. TxDOT, 2005-Current, "100-E, Soils & Aggregates Test Procedures", Austin, TX.
5. American Society of Testing Materials, Volume 04.08, Soil and Rock (I): D420- D5779 (Up to Date).
6. TxDOT, 2000, 2006, 2012 "Geotechnical Manual", Austin, TX.
7. United Facilities Criteria (UFC), "Soils & Geology Procedures for Foundation Design of Building and Other Structures", UFC 3-220-03FA, (January 2004).
8. United States Army Corps of Engineers, "Flexible Pavements for Roads, Streets, Walks and Open Storage Areas", EM 1110-3-131

APPENDIX A – FIGURES



US 281

Hidalgo County

Project Location

Edinburg

FM 162

Washington

Adams

1st





Lincoln


Figure 1

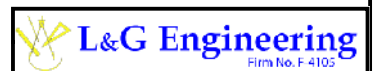
Hidalgo County Sheriff's Office
Bus Barn

Location Map

Legend

-  Project Location
-  State Highway
-  Farm-to-Market
-  County Road

1,000
 Feet
 1 inch = 1,000 feet



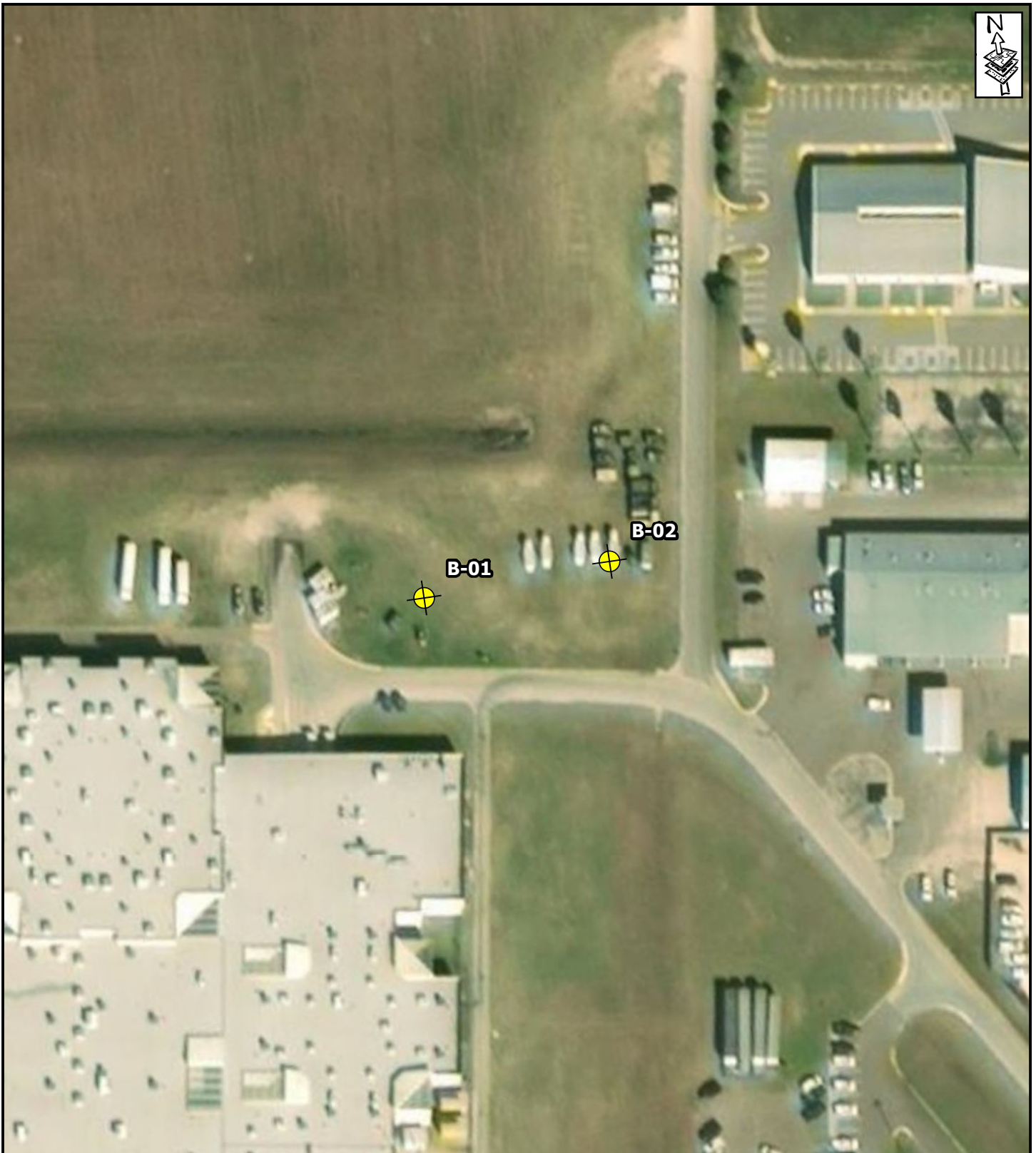



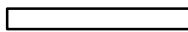
Figure 2

Hidalgo County Sheriff's Office
Bus Barn

Boring Location Map

Legend

 Boring Locate

100
 Feet
 1 inch = 100 feet

APPENDIX B – BORING LOGS



CLIENT Hidalgo Co. Pct. 4

PROJECT NAME Sheriff's Office Bus Barn

PROJECT NUMBER GL19009

PROJECT LOCATION Hidalgo County

LITHOLOGIC SYMBOLS
(Unified Soil Classification System)



CH: USCS High Plasticity Clay



CL: USCS Low Plasticity Clay



CL-ML: USCS Low Plasticity Silty Clay



ML: USCS Silt



SC: USCS Clayey Sand



SC-SM: USCS Clayey Sand

SAMPLER SYMBOLS



Standard Penetration Test

WELL CONSTRUCTION SYMBOLS

ABBREVIATIONS

- LL - LIQUID LIMIT (%)
- PI - PLASTIC INDEX (%)
- W - MOISTURE CONTENT (%)
- DD - DRY DENSITY (PCF)
- NP - NON PLASTIC
- 200 - PERCENT PASSING NO. 200 SIEVE
- PP - POCKET PENETROMETER (TSF)

- TV - TORVANE
- PID - PHOTOIONIZATION DETECTOR
- UC - UNCONFINED COMPRESSION
- ppm - PARTS PER MILLION
- ▽ - Water Level at Time Drilling, or as Shown
- ▼ - Water Level at End of Drilling, or as Shown
- ▽ - Water Level After 24 Hours, or as Shown

CLIENT Hidalgo Co. Pct. 4 **PROJECT NAME** Sheriff's Office Bus Barn
PROJECT NUMBER GL19009 **PROJECT LOCATION** Hidalgo County
DATE STARTED 10/16/19 **COMPLETED** 10/16/19 **GROUND ELEVATION** 89 ft **HOLE SIZE** 4 inches
DRILLING CONTRACTOR L&G Engineering Laboratory **GROUND WATER LEVELS:**
DRILLING METHOD Solid Stem Auger **AT TIME OF DRILLING** 19.00 ft / Elev 70.00 ft
LOGGED BY J. Sinclair **CHECKED BY** David A. Saenz, P.E. **AT END OF DRILLING** ---
NOTES GPS 26°25'04.56" N, 98°07'37.02" W (Approx. Elev.) **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		(SC) Clayey Sand, Dk. Brown, Med. Dense, Dry	SPT 1		7-13-9 (22)			4				42
5		(CL) Sandy Lean Clay, Dk. Brown to Brown, Med. Stiff, Dry	SPT 2		5-5-3 (8)			5	32	13	19	
			SPT 3		2-2-2 (4)			11				
			SPT 4		2-3-5 (8)			11				63
			SPT 5		3-4-5 (9)			12	28	15	13	
15		(CL) Sandy Lean Clay, Brown, w/ Calcareous Nodules, Very Stiff, Dry	SPT 6		4-12-18 (30)			17	32	18	14	55
20		∇ (CL) Lean Clay, Brown, w/ Traces of Gravel (Sized 1/4 to 1/2 in. Diam., Shaped Sub-Angular), Moist to Wet	SPT 7		8-9-9 (18)			25	27	16	11	85
25			SPT 8		2-3-2 (5)			27	27	16	11	82
30		(ML) Sandy Silt, Tan, Stiff, Wet	SPT 9		3-4-6 (10)			29	NP	NP	NP	56
35		(CH) Fat Clay, Brown, Very Stiff, Wet	SPT 10		11-11-16 (27)			22	53	20	33	94

Bottom of borehole at 35.0 feet.

GEOTECH BH COLUMNS - GINT STD US LAB.GDT - 10/25/19 16:31 - L:\GINT\PROJECTS\HIDALGO CO. PCT. 4 - SHERIFFS OFFICE BUS BARN.GPJ

CLIENT Hidalgo Co. Pct. 4 **PROJECT NAME** Sheriff's Office Bus Barn
PROJECT NUMBER GL19009 **PROJECT LOCATION** Hidalgo County
DATE STARTED 10/16/19 **COMPLETED** 10/16/19 **GROUND ELEVATION** 89 ft **HOLE SIZE** 4 inches
DRILLING CONTRACTOR L&G Engineering Laboratory **GROUND WATER LEVELS:**
DRILLING METHOD Solid Stem Auger **AT TIME OF DRILLING** 17.00 ft / Elev 72.00 ft
LOGGED BY J. Sinclair **CHECKED BY** David A. Saenz, P.E. **AT END OF DRILLING** ---
NOTES GPS 26°25'04.86" N, 98°07'35.94" W (Approx. Elev.) **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
0-5		(CL) Sandy Lean Clay, Dk. Brown to Brown, w/ Calcareous Nodules and Traces of Gravel (Sized Less Than 1/4 in., Shaped Sub-Rounded), Med. Stiff to Stiff, Dry	SPT 1		4-5-6 (11)			7	29	13	16	
5-6			SPT 2		6-5-7 (12)			6				51
6-7			SPT 3		4-4-4 (8)			7				
7-9			SPT 4		3-4-5 (9)			13	29	14	15	
9-10			SPT 5		3-6-7 (13)			12				56
10-15		(SC) Clayey Sand, Brown, Loose, Dry to Moist	SPT 6		1-3-7 (10)			22	28	18	10	37
15-20		(CL-ML) Silty Clay w/ Sand, Brown, w/ Traces of Gravel (Sized Less Than 1/4 in., Shaped Sub-Rounded and Sub-Angular), Very Stiff, Moist to Wet	SPT 7		13-13-14 (27)			19	24	17	7	72
20-25		(SC-SM) Silty Clayey Sand, Brown to Tan, Med. Dense, Wet	SPT 8		3-3-8 (11)			24	NP	NP	NP	27
25-30			SPT 9		7-9-14 (23)			25	NP	NP	NP	29
30-35			SPT 10		16-20-24 (44)			27	NP	NP	NP	20
Bottom of borehole at 35.0 feet.												

GEOTECH BH COLUMNS - GINT STD US LAB.GDT - 10/25/19 16:31 - L:\GINT\PROJECTS\HIDALGO CO. PCT. 4 - SHERIFFS OFFICE BUS BARN.GPJ

APPENDIX C – FOUNDATION CAPACITY CURVES

FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

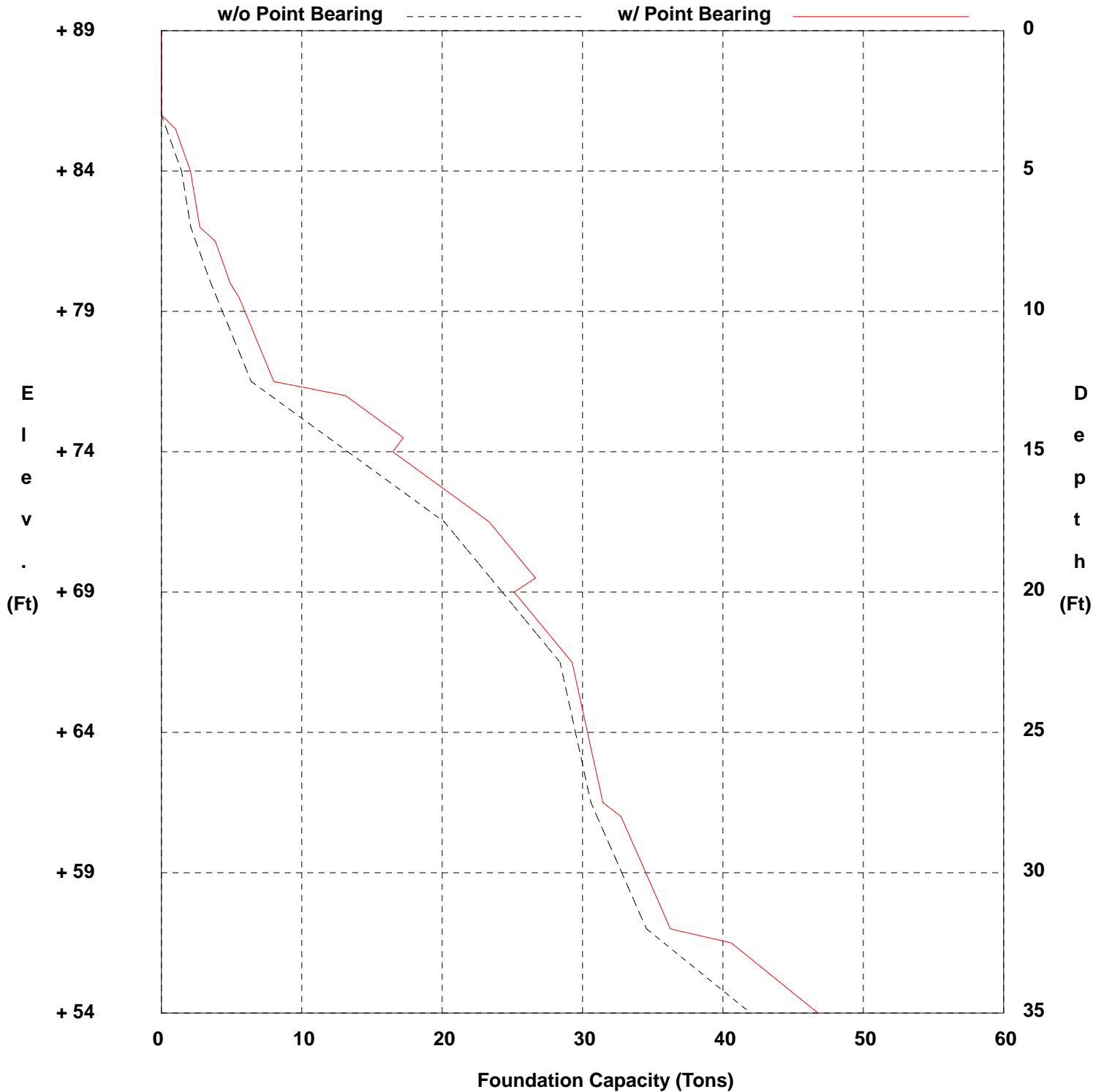
Hole B-01
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 70.00 ft

18 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

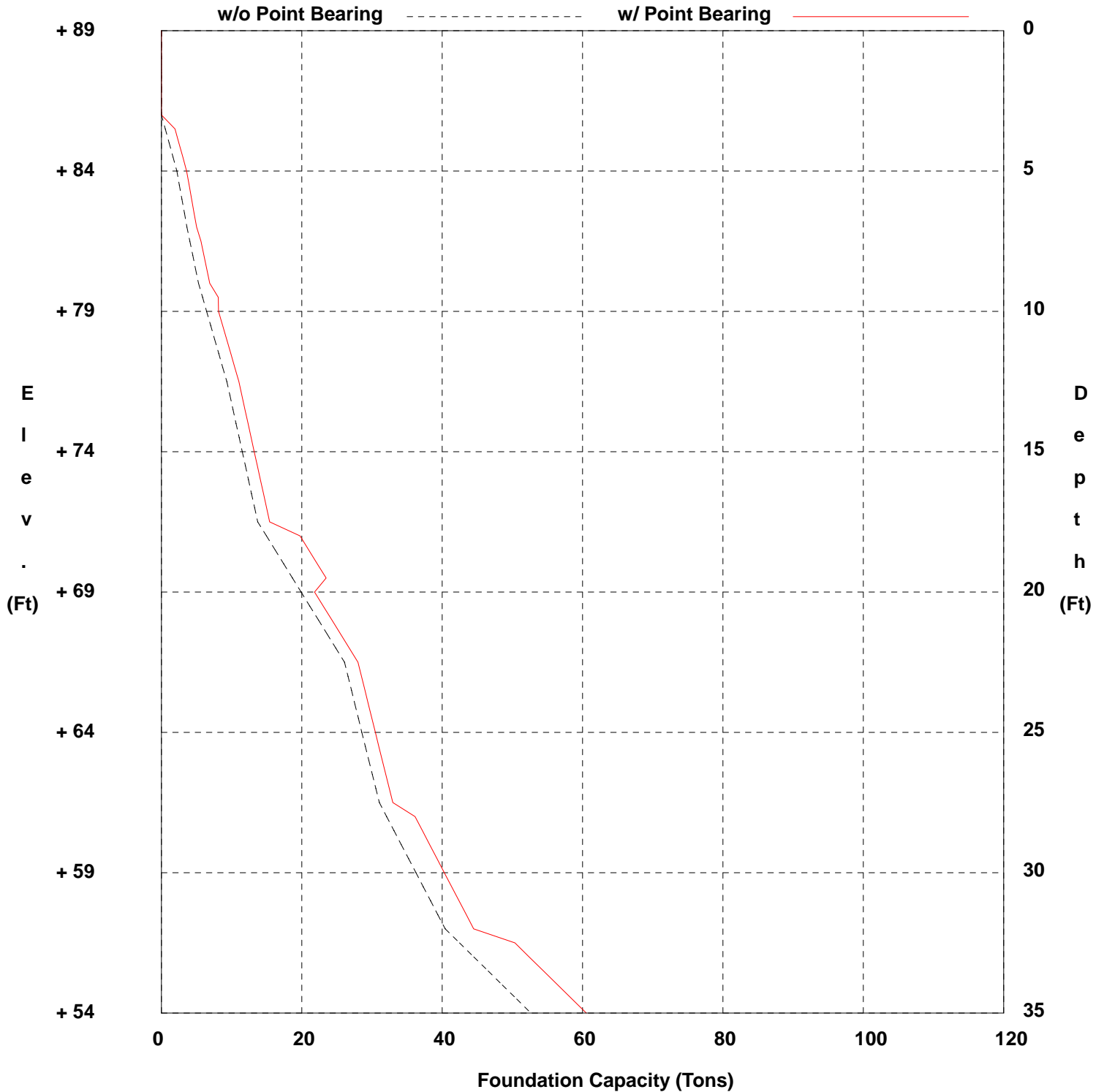
Hole B-02
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 72.00 ft

18 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

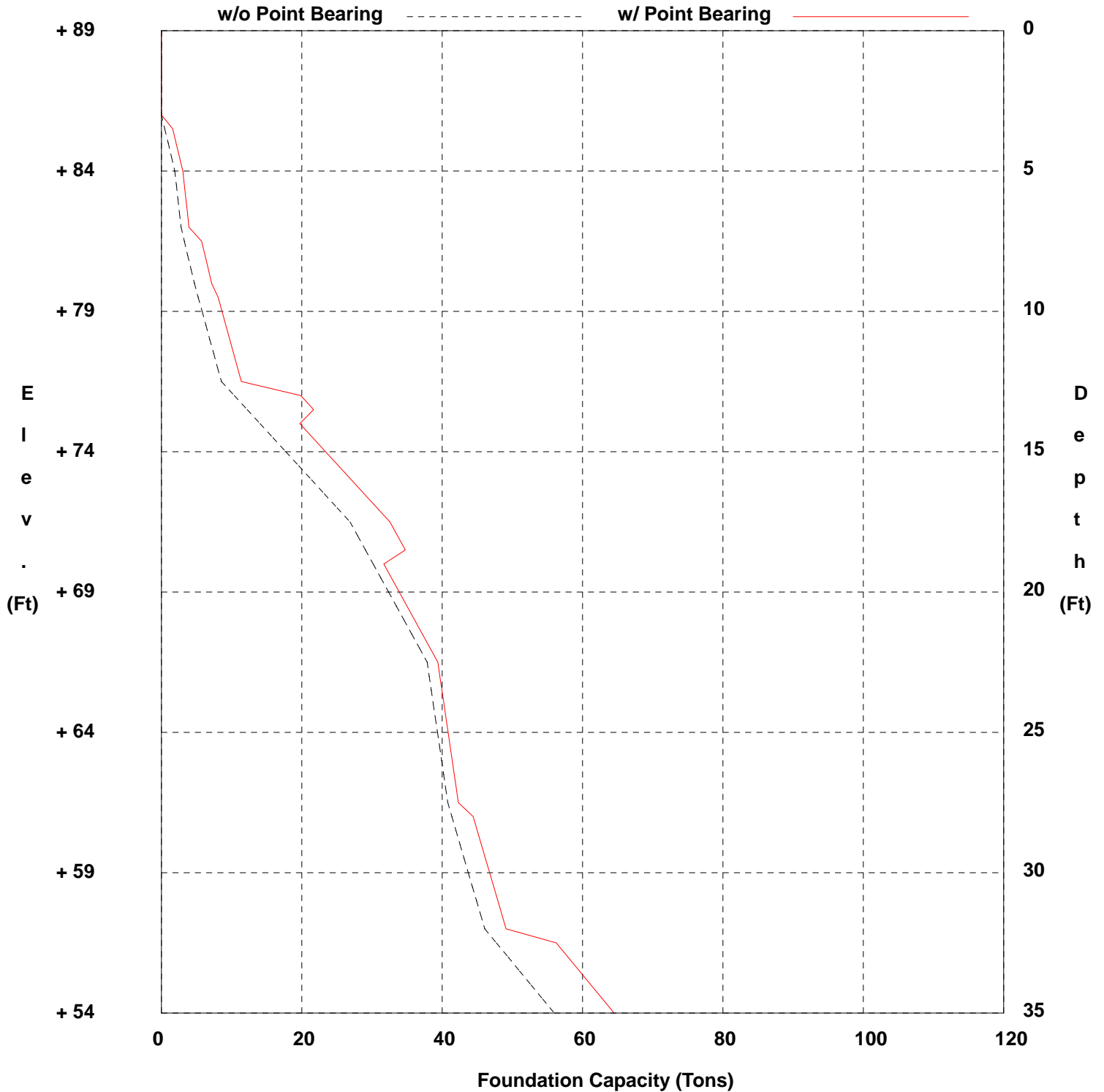
Hole B-01
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 70.00 ft

24 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

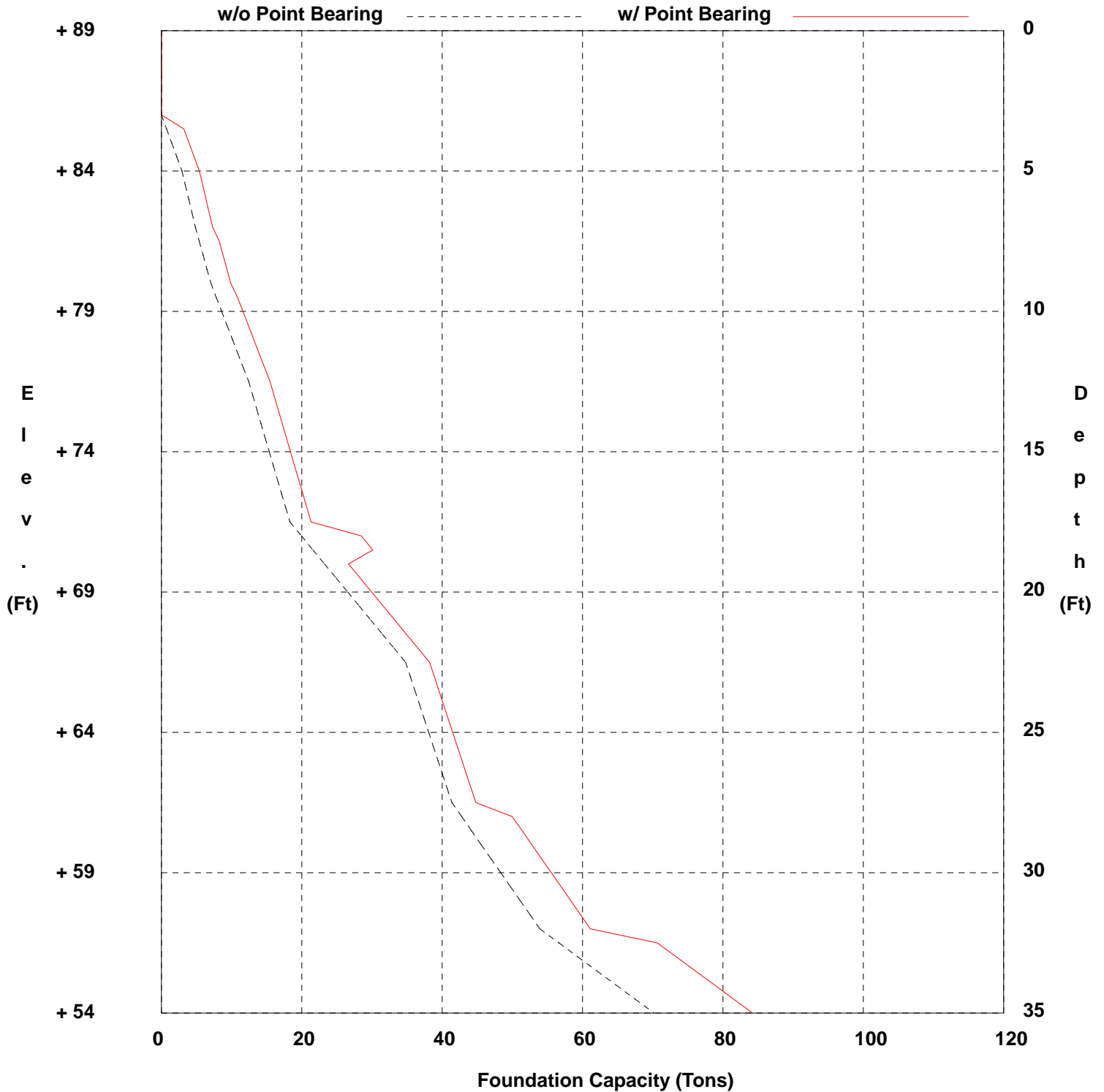
Hole B-02
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 72.00 ft

24 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

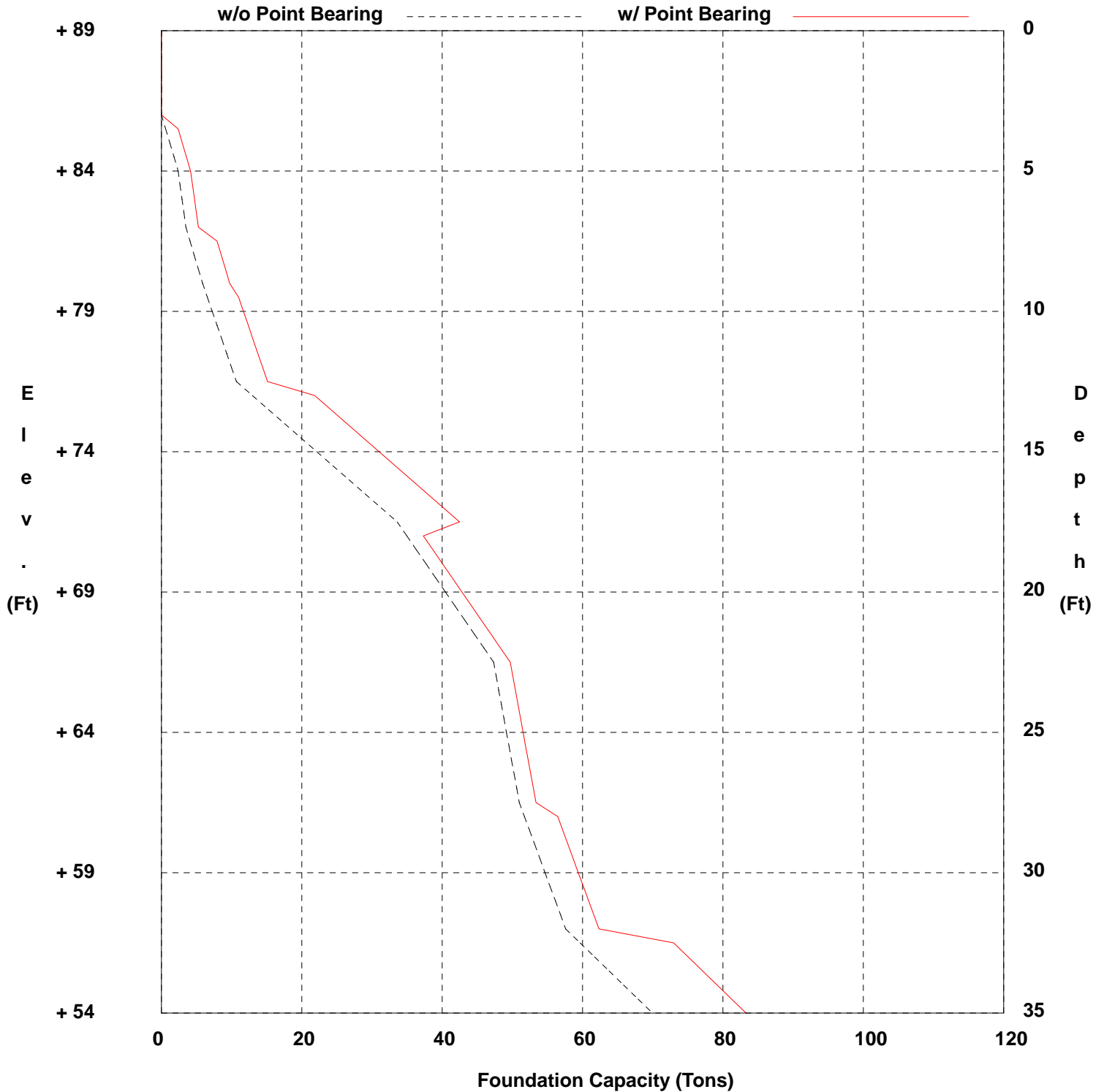
Hole B-01
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 70.00 ft

30 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

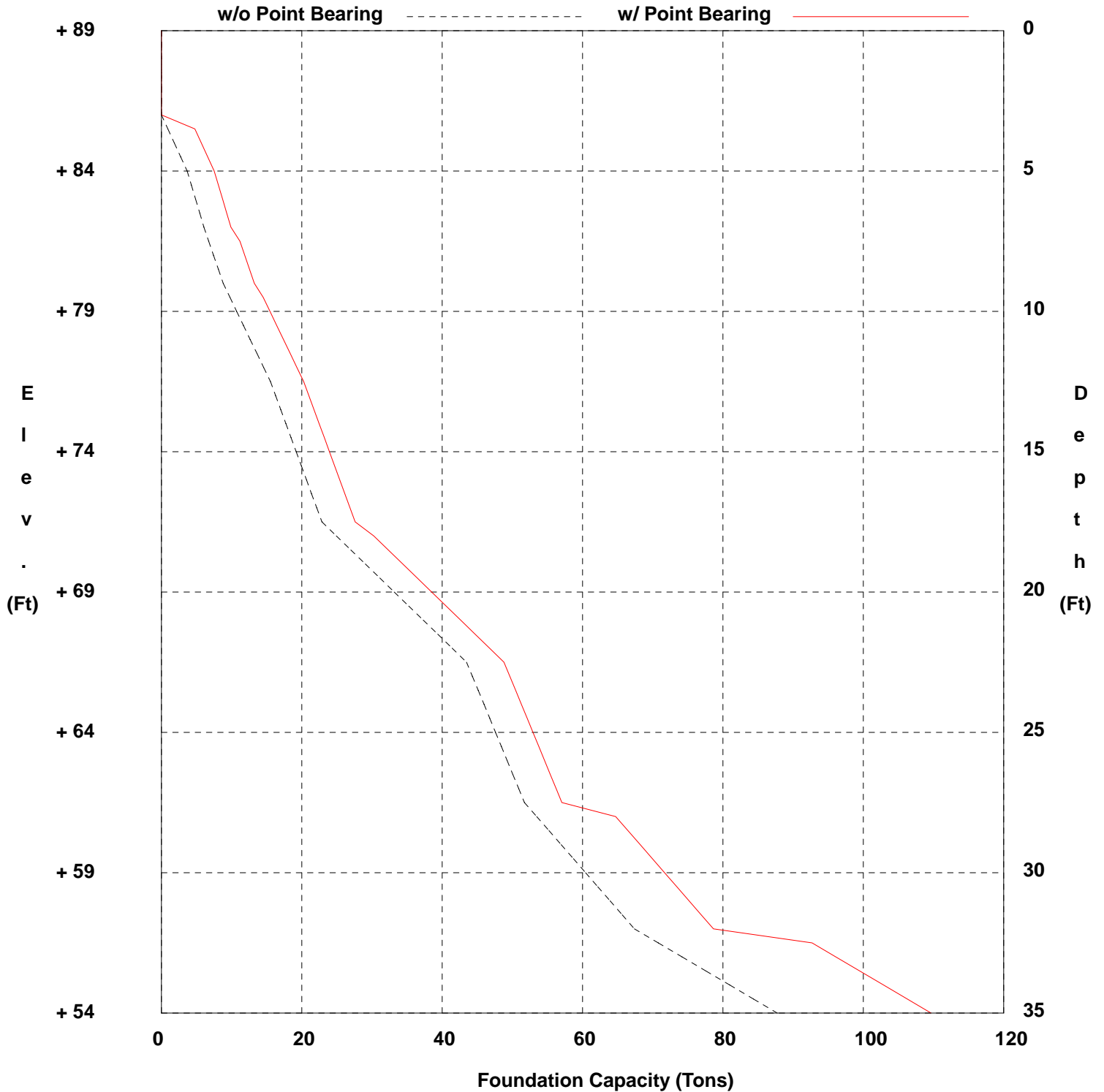
Hole B-02
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 72.00 ft

30 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

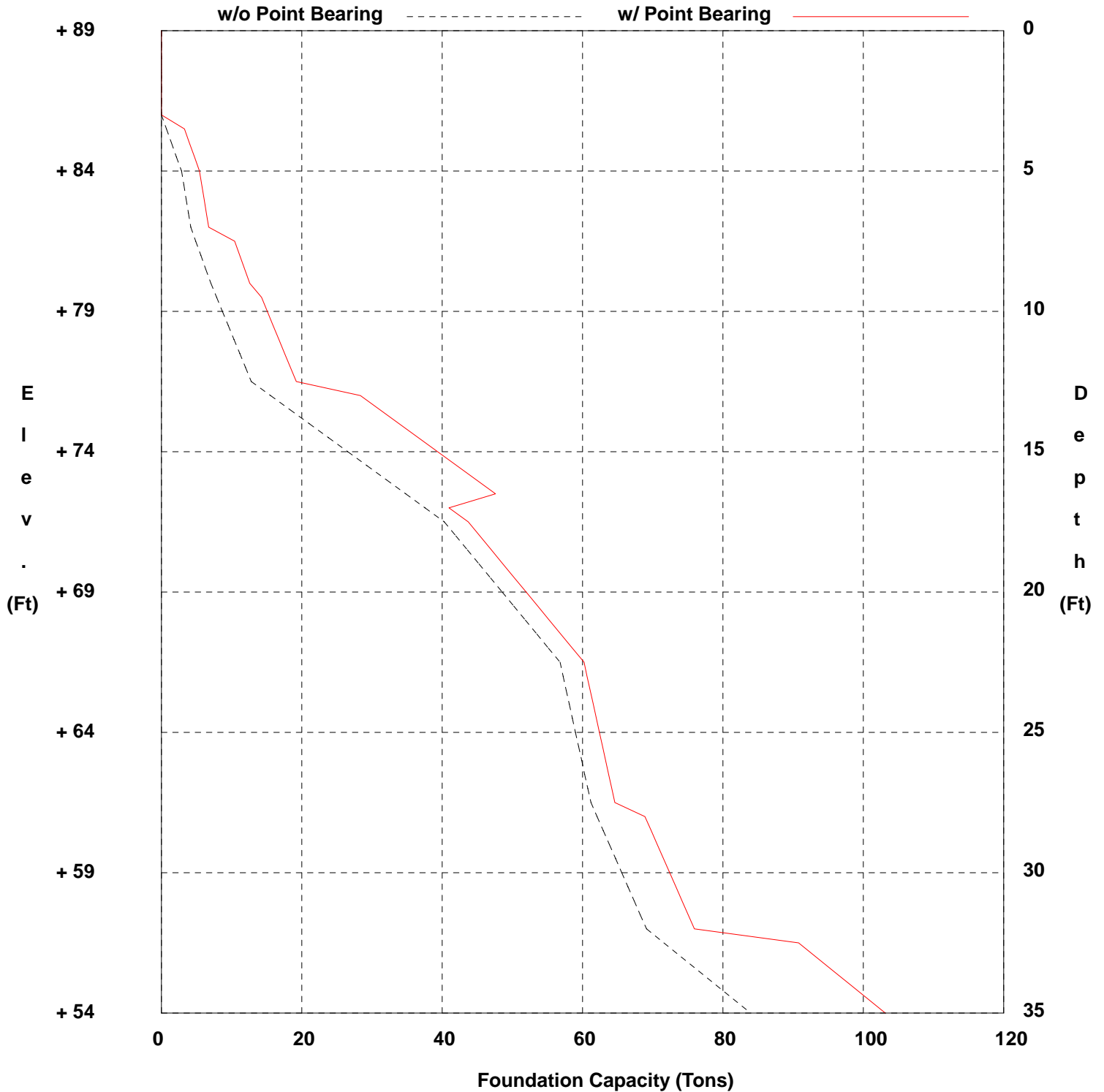
Hole B-01
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 70.00 ft

36 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used



FOUNDATION CAPACITY

WinCore
Version 3.1

County Hidalgo
Highway HCSO Bus Barn
Control

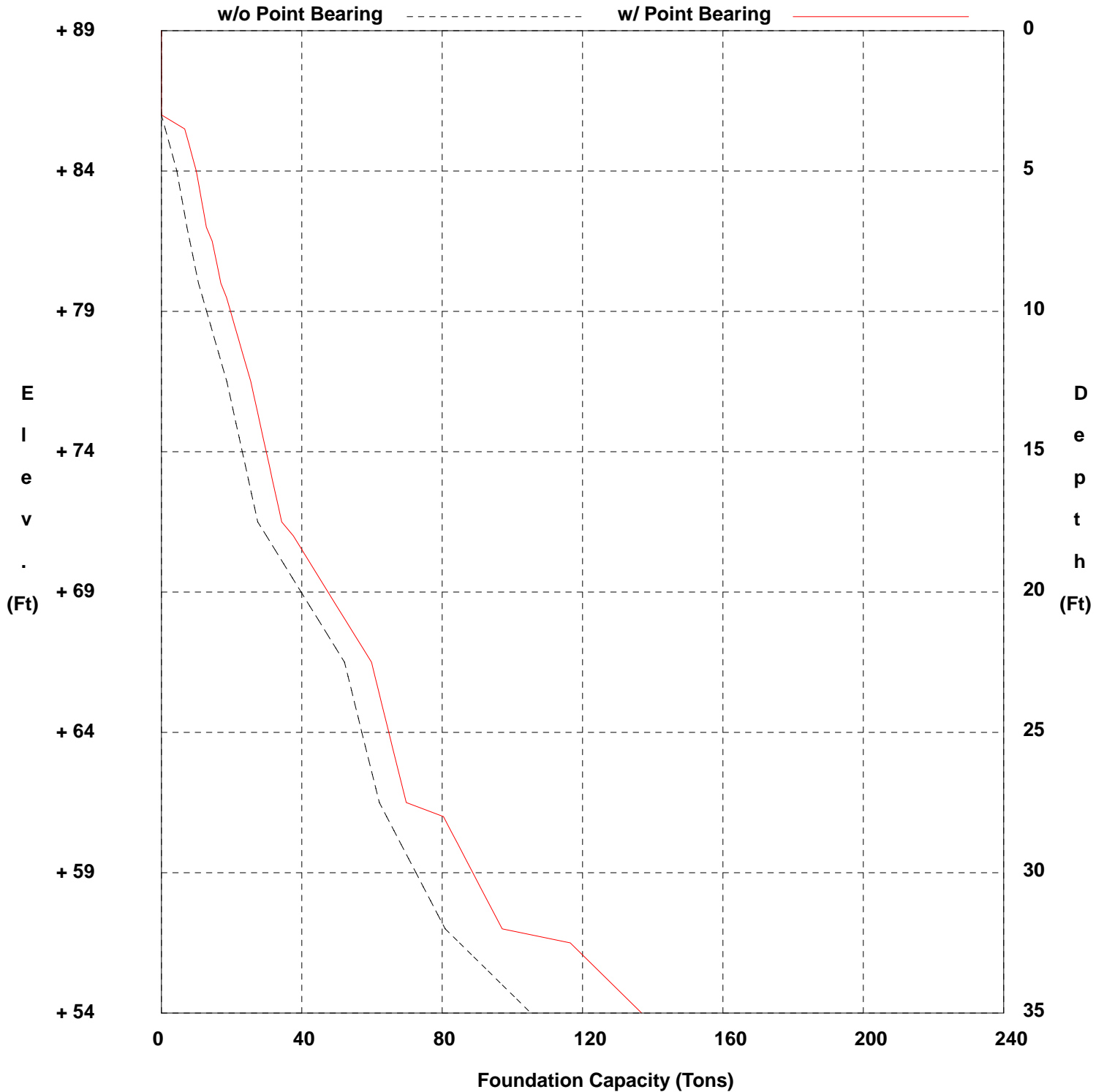
Hole B-02
Structure
Station
Offset

District
Date 10-16-2019
Grnd. Elev. 89.00 ft
GW Elev. 72.00 ft

36 inch Drilled Shaft

+89 Top Hole Elevation
+86 Disregard Elevation

Disregard above hard strata disabled
Pb: 2 Diameters Below Tip Checked
TCP Capacity Values Used
0.7 Soil Reduction Factor Used

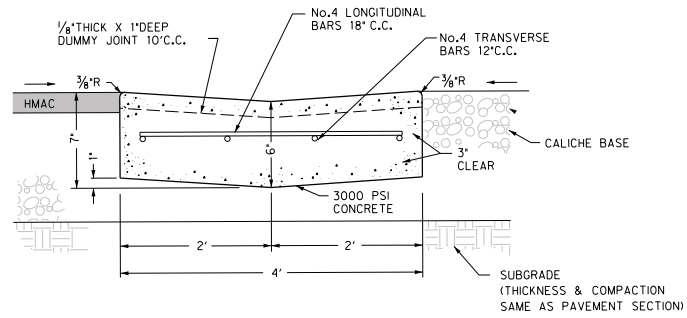
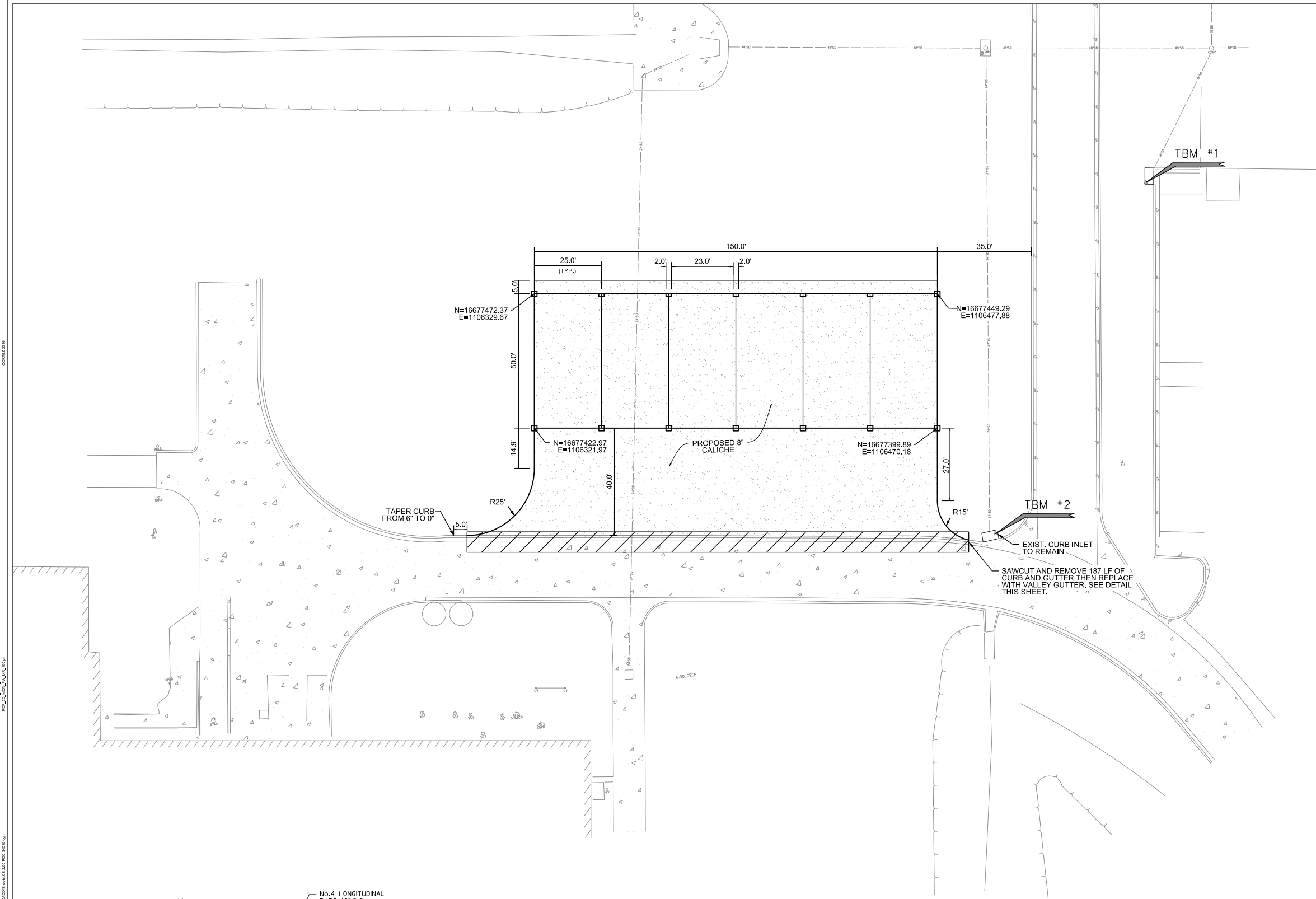


APPENDIX D – INFO PROVIDED BY CLIENT (REFERENCE)

SCALE: 1"=20' (FULL SIZE = 22" X 34")
SCALE: 1"=40' (HALF SIZE = 11" X 17")

LEGEND

PROPOSED	EXISTING	DESCRIPTION
■	□	INLET
■	□	GRATE INLET
●	○	MANHOLE
○	○	GATE VALVE & BOX
⊕	⊕	WATER METER
⊕	⊕	FIRE HYDRANT
○	○	SANITARY CLEAN OUT
⊕	⊕	LIGHT POLE
□	□	ELECTRIC BOX
□	□	POWER POLE
□	□	TELEPHONE PEDESTAL
-x-x-	-x-x-	FENCE
TS	TS	TRAFFIC SIGN
-EX OHE-	-EX OHE-	OVERHEAD ELECTRIC
-EX UGE-	-EX UGE-	UNDERGROUND ELECTRIC
-EX GAS-	-EX GAS-	GAS LINE
-EX F/O-	-EX F/O-	FIBER OPTIC LINE
-EX TEL-	-EX TEL-	TELEPHONE LINE
///	///	ASPHALT PAVEMENT
-EX 6"SS-	-EX 6"SS-	SAN. SEWER
-W-	-EX 6"W-	WATER
-FIRE-	-EX FIRE-	FIRE PROTECTION
---	---	36"SD STORM SEWER
-100.00-	-100.00-	CONTOUR
→		DRAINAGE FLOW ARROW
+TP100.00		TOP OF PAVEMENT
+TC100.00		TOP OF CURB
+G100.00		GUTTER
+FL100.00		FLOW LINE
+TW100.00		TOP OF WALK
+100.00		FINISHED GRADE
■		ASPHALT PAVEMENT
■		CONCRETE
○		CAUTION 1 UTILITY CROSSING



TYPICAL VALLEY GUTTER SECTION
NTS

TBM #1
SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS
ELEVATION = 88.12(NAVD88)
N=16677478.25
E=1106560.91
(NAD83)

TBM #2
SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS
ELEVATION = 87.38(NAVD88)
N=16677357.72
E=1106485.55
(NAD83)

Revision No.	Date	Description

Project No.: 34015-004
Issued: JUNE 21, 2019
Drawn By: FC
Checked By: RGJ
Scale: AS NOTED

Sheet Title
PAVING & DIMENSION CONTROL PLAN

C2.00
Sheet Number

10/2019 2:02:17 PM 4/1/2021 HMLFF D:\03\34015\34015-004\DWG\C2.00\PAVING_DIMENSION_CONTROL_PLAN.dwg

REQUEST FOR BIDS

HIDALGO COUNTY

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

RFB No: 2019-267-04-15-ABV

Acceptance Due Date: April 15, 2020

Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department

Project Contract Specialist Contact Information:

Alexandra Vela, Contract Specialist II
Hidalgo County Purchasing Department
Physical Address: 2802 S. Business Hwy. 281 - Administration Building
Mailing/Postal Address: 2812 S. Business Hwy. 281
Edinburg, Texas 78539
(956) 318-2626 Ext. 4865
Alexandra.vela@co.hidalgo.tx.us





Hidalgo County Purchasing Office
2812 S. Business Highway 281
New Administration Building
Edinburg, Texas 78539
(956) 318-2626/ Fax: (956) 292-7612

March 25, 2020

The Monitor
1400 East Nolana
McAllen, Texas 78504

Re: Hidalgo County –“Construction of Bus Barn for Hidalgo County Sheriff’s Office”
Bid Opening Date: April 15th, 2020
RFB: 2019-267-04-15

Gentlemen:

Please publish twice the enclosed advertisement under the legal ad section of your newspaper. The first publication should run on **SATURDAY, March 28, 2020** and the second on **SATURDAY, April 04, 2020.**

After these publications, please submit to this office a publisher’s affidavit for our records. The billing statement should be mailed to:

Hidalgo County Sheriff’s Office
701 E. El Cibolo Rd.
Edinburg, Texas 78542
PO 809541

Thank you for your assistance in this matter.

Sincerely,

Martha L. Salazar, CPPB
Hidalgo County Purchasing Agent

MLS/abv

REVISED REQUEST FOR BIDS

TO SUPPLY HIDALGO COUNTY with sealed bids on: “Construction of Bus Barn for Hidalgo County Sheriff’s Office”

A BIDDER’S BOND from a reliable surety company licensed to operate in the State of Texas or certified Cashier’s Check, payable without recourse to the County of Hidalgo, for the amount of not less than 5% of the total bid shall accompany the bid as guaranty that, if awarded the contract, the bidder will enter into a contract with the County of Hidalgo. Payment and Performance Bonds shall be executed except in the event into a single payment contract with the County of Hidalgo in lieu of a Performance Bond. In the event the total amount bid is \$25,000 or less, the successful contract has the option to enter into a single payment contract with the County of Hidalgo in lieu of a Payment and Performance Bond.

Bid Packets may be obtained by calling the Hidalgo County Purchasing Department at Phone No. (956) 318-2626 or by email request at alexandra.vela@co.hidalgo.tx.us.

PRE-BID CONFERENCE is scheduled for **Tuesday, April 08, 2020 at 3:30 P.M.** at **HIDALGO COUNTY NEW ADMINISTRATION BUILDING-PURCHASING DEPARTMENT 2812 S Business Hwy 281, EDINBURG, TEXAS 78539.**

UPON SUBMITTING SEALED BID, bidders are required to properly identify (handwritten, typed or printed) sealed envelope and/or packet as follows: Bidder's name and address on the upper left hand corner of the sealed envelope and/or package and Bid No.: **2019-267-04-15-ABV**–“Construction of Bus Barn for Hidalgo County Sheriff’s Office” on the lower left hand corner of sealed envelope/and or packet. **OVERNIGHT MAIL MUST ALSO BE PROPERLY LABELED ON THE OUTSIDE OF EXPRESS ENVELOPE OR PACKAGE.**

The sealed bid must contain one (1) original, one (1) copy, and two (2) (CD’S/USB in PDF format) must be clearly identified and addressed for delivery to:

**Martha L. Salazar, CPPB, Hidalgo County Purchasing Agent
Hidalgo County Purchasing Department**

US Postal Mail/Courier Address
Hidalgo County New Administration Building
2812 S. Business Hwy 281
Edinburg, Texas 78539

Physical Location:
Hidalgo County New Administration Building
2802 S. Business Hwy. 281
(Southeast of Canton Rd & Business 281)
Edinburg, Texas 78539

Sealed bids will be accepted until **9:30 a.m. on Wednesday, April 15, 2020** at which time they will be opened in the Hidalgo County Purchasing Department Conference Room at **Physical Location: 2802 S. Business Hwy 281, Hidalgo County New Administration Building, Edinburg, Texas 78539.** NO FACSIMILES OR LATE ARRIVALS WILL BE ACCEPTED. ANY BID RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED

Attention is called to the fact that not less than, the federally determined prevailing (**Davis-Bacon and Related Acts**) wage rate, as issued and contained in the contract documents, must be paid on this project. In addition, the successful bidder must ensure that employees and applicants for employment are not discriminated against because of race, color, religion, sex, age, disability or national origin (if applicable.)

BIDS MAY BE HELD by the County of Hidalgo for a period not to exceed ninety (90) days from the date of the opening of bids for the purpose of reviewing the bids and investigating the qualifications of bidders, prior to awarding of the contract.

THE COUNTY reserves the right to refuse and reject any/all bids and to waive any/all formalities or technicalities, or to accept the bids considered the best and most advantageous to the County.

Typed written bidding RFI’s shall be e-mailed to alexandra.vela@co.hidalgo.tx.us. RFI’s **will not be answered by phone.** NO HAND WRITTEN RFI’S will be processed/answered. All inquiries shall be forwarded by **5:00 PM Monday April 08, 2020.** Responses to said inquiries will be sent to all applicants via facsimile by no later than **5:00 p.m. Wednesday April 10, 2020.** Inquiries beyond this date will not be responded to. Contact project architect’s office for copies of Addenda. All bidders who paid a deposit will be required to return Addenda as part of the Construction Documents in order to receive full deposit or refund.

BY ORDER OF THE COMMISSIONERS COURT OF HIDALGO COUNTY, TEXAS on this the **24th** of **March 2020.**

MARTHA L. SALAZAR, CPPB
HIDALGO COUNTY PURCHASING AGENT
REPORT ROAD HAZARDS @ 1-866-HCR-SAFE OR 1-866-427-7233



2802 S. Bus. Hwy 281
Edinburg, Texas 78539
Phone: (956) 318-2626
Fax: (956) 318-2629
www.co.hidalgo.tx.us/purchasing

March 30, 2020

Participant's name

Address

City

State, Zip Code

Re: **HIDALGO COUNTY**

Request for Bids- **“Construction of Bus Barn for Hidalgo County Sheriff’s Office”**

RFB No: 2019-267-04-15-ABV

Dear Respondents:

Enclosed please find a Request for Bid (RFB) packet for your consideration. Modifications and new requirements have been added and implemented. Carefully read and review all instructions, requirements and specifications.

Hidalgo County Purchasing Department welcomes and appreciates your participation in the Request for Qualifications process.

If any further assistance is required, please do not hesitate to call the Purchasing Department at 956-318-2626 ext. 4865.

Sincerely,

Martha L. Salazar, CPPB

Hidalgo County Purchasing Agent

MLS/*abv*

Enclosures

HIDALGO COUNTY
TABLE OF CONTENTS
RFB No: 2019-267-04-15-ABV
“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

Item	Description	Page Number
1.	Request for Bids Letter	1
2.	Request for Bids Table of Contents	2
3.	Request for Bids, Legal Notice	12
4.	Information for Bidders	5
5.	Bid Bond	2
6.	Specifications	24
7.	Bid Form	3
8.	Bid Sheet	1
9.	Statement of Credentials	6
10.	Construction Contract	2
11.	Payment Bond & Performance Bond	7
12.	General Notes & Standard Specifications	49
13.	Exhibit C, Insurance	5
14.	Exhibit D, (CIQ) Conflict of Interest Questionnaire	3
15.	Exhibit E, Vendor/Bidder Application and W-9 Form(s)	9
16.	Exhibit F, Certification Regarding Debarment	2

17.	Exhibit G, Title VI Appendices “A” thru “E”	6
18.	Exhibit H, Required Contract Clauses for Contracts Under Federal Award (if applicable)	15
19.	Exhibit I, FHWA 1273	13
20.	Exhibit J, Proposer’s Affidavit	1
21.	RFB Submittal Check List	1
22.	Draft Contract	2

The above-mentioned items shall be found in the Request for Bids (RFB) packet that is attached herewith. Should you find that any of the items are not attached in its entirety please contact Purchasing by calling (956) 318-2626, advise of missing documentation, and Purchasing will forward information either through facsimile or by U.S. Mail. Thank you.

REQUEST FOR BIDS

HIDALGO COUNTY

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

RFB No: 2019-267-04-15-ABV

Acceptance Due Date: April 15, 2020

Martha L. Salazar, CPPB, Purchasing Agent
Hidalgo County Purchasing Department

Project Contract Specialist Contact Information:

Alexandra Vela, Contract Specialist II
Hidalgo County Purchasing Department
Physical Address: 2802 S. Business Hwy. 281 - Administration Building
Mailing/Postal Address: 2812 S. Business Hwy. 281
Edinburg, Texas 78539
(956) 318-2626 Ext. 4865
Alexandra.vela@co.hidalgo.tx.us



1. Bids will be received for “**Construction of Bus Barn for Hidalgo County Sheriff’s Office**”, in accordance with the requirements attached hereto as Exhibit "A". The bid should address all requirements set forth. Bidders (may also be referred to as respondent, contractor or vendor) may suggest substitutions of features which they feel would be in the best interest of Hidalgo County ("County"), however, a strong rationale must be presented for any deviation from the requirements. Hidalgo County reserves the right to reject the deviation and its effect on the overall bid.
2. **One (1) original** (pages *one-sided* – clearly marked **ORIGINAL**), **one (1) copy** of all bids and **two (2) CD/USB in PDF** format are required with the bidder’s name and address clearly typed/printed on upper left-hand corner and the proper notation clearly typed/printed on the lower left-hand corner of the envelope and/or package, **RFB: 2019-267-04-15-ABV Hidalgo County “Construction of Bus Barn for Hidalgo County Sheriff’s Office”** and in County's Purchasing Department, Physical Location: 2802 S. Business Hwy. 281 Postal/ Mailing: 2812 S. Business Hwy. 281 Administration Building, Edinburg, Texas, **ON OR BEFORE 9:30 A.M., WEDNESDAY, April 15, 2020.**

NO FACSIMILES OR LATE ARRIVALS WILL BE ACCEPTED. ANY BID RECEIVED AFTER THAT TIME WILL NOT BE OPENED AND WILL BE RETURNED. OVERNIGHT MAIL MUST ALSO BE PROPERLY LABELED ON THE OUTSIDE OF EXPRESS ENVELOPE AND/OR PACKAGE IN REFERENCE TO SEALED BID.

Hidalgo County reserves the right to refuse and reject any/all bids and to waive any/all formalities or technicalities or to accept the bid considered the best and most advantageous to Hidalgo County.

Additionally, all forms listed below must be properly executed and included with your RFB:

1. Legal Notice Acknowledgement (See **page 12**);
 2. Insurance pages with Acknowledgment Forms (See **Exhibit “C”**);
 3. Form CIQ-Conflict of Interest Questionnaire (See **Exhibit “D”**);
 4. Vendor Bidder Application, W-9, & HUB/DBE (See **Exhibit “E”**);
 5. Certification Regarding Debarment (See **Exhibit “F”**);
 6. (*If applicable*) - Required Contract Clauses for Contracts Under Federal Award – 2 CFR 200, Appendix II & FEMA (See **Exhibit “H”**);
 7. Proposer’s Affidavit (See **Exhibit “J”**); and
 8. SAMS.gov Registration Acknowledgement (See **Number 18** below).
3. Hidalgo County reserves the right to separate and accept or eliminate any item(s) listed under this bid that it deems necessary to accommodate budgetary and/or operational requirements. Hidalgo County also reserves the right to reject any or all bids submitted. Receipt of any bid shall under no circumstances obligate County to accept the lowest dollar bid. The award of this contract shall be made to the responsible bidder whose bid is determined to be the best bid, taking into consideration the relative importance of price and other factors as herein set forth.
 4. The Bidder shall not substitute items named in the bid without the express written consent of Hidalgo County. Failure of the delivered item to perform as specified or failure to meet the stated delivery schedule shall release Hidalgo County from all obligations to the contracting party with regard to the item(s) in question. In such an event, County may elect to award the contract to the next lowest responsible bidder or to reject all sealed bids and re-advertise.

5. Bidder is responsible for obtaining any information needed in order to respond to the RFB. For work to be performed at a County owned or operated location, each respondent shall, in its sole discretion, visit the job site before preparing the bid and thoroughly familiarize himself/herself with existing conditions. Respondent should take field dimensions and note all circumstances which affect the dollar amount.
6. Bidder should provide any and all relevant information necessary to establish Bids. Descriptive specifications are referenced in this document to indicate the general kind and quality of equipment desired by Hidalgo County. Due to various styles and models of equipment, respondents are required to include illustrations, specifications, explanation of warranties, and service data with their response including catalog numbers and any necessary references.
7. No bid may be withdrawn within thirty (30) days from the scheduled time to open bids.
8. Submitted Bid prices are to remain firm for a minimum of ninety (90) days after the RFB opening.
9. Any interpretations, amendments, corrections or changes to this RFB document must be in a written addendum and signed by the County Judge or his designee. Addenda will be mailed to all who are known to have received a copy of the Request for Bids. Respondents shall acknowledge receipt of all addenda as a part of their Bids submittal.
10. County reserves the right to accept or reject any or all Bids.
11. Respondent is responsible for all costs of submitting its response to the RFB.
12. The county is exempt from Federal Excise Tax, State Tax, and Local Tax. Do Not include tax in cost figure(s). If it is determined that tax was included in the cost figure(s) it will not be included in the tabulation of any awards. Tax exemption certificates will be furnished upon request.
13. Funds for this procurement have been provided through the County budget for this fiscal year only. County, on an annual basis, has the right to reconsider a contract during the budget process for ensuing years if financial resources of County are insufficient to meet the liabilities of said contract. The award of a bid or contract hereunder will not be construed to create a debt of the County which is payable out of funds beyond the current fiscal year.
14. Upon award and prior to execution of a contract, Sole Proprietorships are required to submit a copy of their social security cards to the Hidalgo County Auditor's Office in order to establish an account with the County. All awarded vendors must submit a completed W-9 and a copy of their Federal ID Number Certificate.
15. **POST-AWARD DELIVERY INSTRUCTIONS (if applicable):**
 - Costs are to be net F.O.B., County Prepaid.
 - No deliveries accepted after 3:00 P.M., Monday-Friday (if applicable).
 - At least seventy-two (72) hours prior notice of delivery must (if applicable) be given to Martha L. Salazar, CPPB, Hidalgo County Purchasing Agent before delivery will be accepted.
 - If you need additional information call the office listed below:

Hidalgo County Purchasing Department
 Martha L. Salazar, CPPB, Purchasing Agent
 (956) 318-2626

16. POST-AWARD PROJECT-SPECIFIC BILLING AND PAYMENT INSTRUCTIONS:

- Invoices must include:
 - a) Name and address of successful respondent;
 - b) Name and address of receiving department or official;
 - c) Purchase Order Number and Contract number (if any) for the project-specific award;
 - d) Notation – **Hidalgo County- RFB: 2019-267-04-15-ABV “Construction of Bus Barn for Hidalgo County Sheriff’s Office” and**
 - e) Descriptive information as to the items or services delivered, including product code, item number, quantity, etc.

- Discount payments will be considered when offered (if applicable).

- Contact person for Billing and Payment questions:

HIDALGO COUNTY AUDITOR’S OFFICE
 Postal/Mailing 2808 S. Business Hwy. 281
 Edinburg, Texas 78539
 956-318-2511

SCHEDULE OF EVENTS:

RFB Opening, 9:30 A.M.	<u>April 15, 2020</u>
Award of Contract:	<u>2020</u>
Commence Work or Deliver Products:	<u>2020</u>

17. HIDALGO COUNTY HOLIDAYS:

2020 YEAR	
New Year’s Day	01/01/20
Martin Luther King Day	01/20/20
President’s Day	02/17/20
Good Friday	04/10/20
Memorial Day	05/25/20
Independence Day	07/03/20
Labor Day	09/07/20
Columbus Day	10/12/20
Veteran’s Day	11/11/20
Thanksgiving Day	11/26/20-11/27/20
Christmas Day	12/24/20-12/25/20
New Year’s Eve	12/31/20

18. **BID, PAYMENT, OR PERFORMANCE BOND AND DEBARMENT CERTIFICATION; PAYMENT UNDER CONTRACT:**

The County may, and if mandated by statute, shall require a bid bond, a performance bond and/or a payment bond. Any such bond must be executed with a surety company authorized to do business Texas and shall meet any other requirements established by law or by County pursuant to applicable law.

- If the contract proposed is for the construction of public works or is for a contract for goods & services exceeding \$100,000, all respondents shall furnish a good and sufficient bid bond in the amount of five percent of the total contract price.
- In the event the contract exceeds Fifty Thousand Dollars (\$50,000.00), the respondent shall furnish a payment bond and a performance bond to the County for the full amount of the contract within thirty (30) days after the date of signing of the contract or issuance of a Purchase Order following the acceptance of a bid or proposal, but in any event prior to the commencement of actual work.
- If the contract is for \$50,000 or less, no money will be paid to the contractor until completion and acceptance of the work or the fulfillment of the purchase obligation to the County, and, if applicable, the receipt by County of satisfactory evidence that all subcontractors and material men have been paid.
- If a contract is for the construction, alteration or repair of public buildings or public works, the contractor *shall* provide a performance bond for a contract in excess of One Hundred Thousand Dollars (\$100,000.00) and *shall* provide a payment bond for a contract in excess of Twenty-Five Thousand Dollars (\$25,000.00) as required by Tex. Govt. Code Ch. 2253.
- For requirements contracts, bond requirements are determined by applying the proposed unit price to the estimated quantities included in the specifications.
- All participants are also required to furnish a certification or acknowledgment stating that the contractor or vendor is free from suspension or debarment pursuant to federal regulation 45 CFR Part 76. Register at SAM.gov, System for Award Management.

19. **TITLE VI NOTICE/ NONDISCRIMINATION:**

- a) By submitting a bid, the respondent certifies that it will comply with the following nondiscrimination statutes and their implementing regulations. Title VI of the Civil Rights Act of 1964, as amended (78 Stat.252, 42 U.S.C. §§2000d to 2000d-4) provides that no person in the United States shall, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Recipient receives Federal financial assistance. Title VI has been broadened by related statutes, regulations and executive orders as found in Appendices “A” through “E” as delineated in the USDOT Standard Title VI/Non-Discrimination Assurances-Specific Assurances to prohibit discrimination on other grounds including, but not limited to, religion, sex, age, and disability. (Title VI-Appendices “A” through “E” are hereby attached as **Exhibit “G”**. The County’s entire Title VI policy may be found at <https://www.hidalgocounty.us/2071/Title-VINondiscrimination-Plan> and is hereby incorporated by reference.

- b) The following required statement and the applicable provisions of the Title VI Appendices “A” through “E” expanding these protections to the categories described herein are hereby incorporated by reference as applicable.
- “The County of Hidalgo, in accordance with the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat.252, 42 U.S.C. §§2000d to 2000d-4) and the Regulations, hereby notifies all respondents that it will affirmatively ensure that any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full and fair opportunity to submit Bids in response to this invitation and will not be discriminated against on the grounds of race, color, or national origin in consideration for an award”.
- c) The respondent will attach all applicable notices, including those referenced in Title VI – Appendices “A” through “E”, to which it is obligated to provide or submit as part of the RFB.
- If applicable, Form FHWA 1273 – “*Required Contract Provisions Federal-Aid Construction Contracts*”, must be physically attached to certain Federal-aid construction contracts. A contractor (or subcontractor) is required to insert Form FHWA 1273 in each subcontract and all lower-tier subcontracts. Form FHWA 1273 is attached as **Exhibit “I”**, and, if applicable, its provisions are incorporated in and made part of the contract entered into between the County and the successful respondent related to the present procurement.

20. **ETHICAL STANDARDS:**

- It shall be a breach of ethics to offer, give or agree to give any elected official, department head or employee, or former elected official, department head or employee, of the County, or for any elected official, department head or employee or former elected official, department head or employee of the County, to solicit, demand, accept or agree to accept from another person, entity or organization, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore pending before any department or agency of the County.
- It shall be a breach of ethics for any payment, gratuity or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier subcontractor for any contract for the County, or any person associated therewith, as an inducement for the award of a subcontract or order.
- Contracts awarded hereunder shall be in compliance with Tex. Loc. Govt. Code Chapter 171: Regulation of Conflicts of Interest of Officers of Municipalities, Counties and Certain Other Local Governments.
- **NOTICE:**
All communications by a vendor to the county, its officials, and department heads regarding this procurement shall be done through the Hidalgo County Purchasing Department.

No vendor, its’ representative, agent, or employee shall engage in private communication with a member of the Hidalgo County Commissioners Court or county department heads regarding any procurement of goods or services by the County from the date that the RFB, RFP, or RFB is released. No private communication regarding the purchase shall be permitted until the procurement process is complete and a purchase order is granted or a contract is entered into “Private Communication” means communication

with any vendor outside of a posted meeting of the governing body, a regular meeting of a standing or appointed committee, or negotiation with a vendor which has been specifically authorized by the governing body.

21. DISCLOSURE OF CONFLICT OF INTEREST:

Effective January 1, 2016, Chapter 176 of the Texas Local Government Code requires that any vendor, person, consultant or contractor considering doing business with Hidalgo County (“the County”) to disclose in the Conflict of Interest Questionnaire (the “CIQ”) attached as **Exhibit “D”**, the vendor, person, consultant or contractor’s affiliation or business relationship that might cause a conflict of interest with the County. By law, the CIQ must be filed with the Hidalgo County Clerk’s Office no later than the seventh business day after the date the person becomes aware of facts that require the statement to be filed. The disclosure requirement applies to a person or business that contracts or seeks to contract with Hidalgo County for the sale or purchase of property, goods or service. Any purchase order or contract resulting from this process shall be considered null and void if the successful respondent fails to comply with the Texas Local Government Code Chapter 176. Vendors, consultants, contractors and others who desire to conduct business with Hidalgo County are encouraged to refer to Texas Local Government Code Chapter 176 for details of this law. An offense under Texas Local Government Code Chapter 176 is a Class C Misdemeanor.

If applicable, completed Form CIQ must be submitted to the Hidalgo County Clerk’s Office located at 100 N. Closner, Edinburg, Texas 78539 - Hidalgo County Courthouse.

COMPLETION AND SUBMISSION OF FORM CIQ IS THE SOLE RESPONSIBILITY OF THE PROSPECTIVE RESPONDENT. QUESTIONS REGARDING COMPLIANCE SHOULD BE DIRECTED TO YOUR LEGAL COUNSEL.

22. CERTIFICATE OF INTERESTED PARTIES (FORM HB1295):

As of January 1, 2016, to comply with Texas Government Code Section §2252.908, and the rules issued by the Texas Ethics Commission found in Title 1, Section 46.1, 46.3 and 46.5 of the Texas Administrative Code, we have updated and revised our RFB packet. In accordance with these requirements, a business must submit a completed Certificate of Interested Parties Form 1295 to the County before the County may enter into a contract with the business entity. In box 3 of Form 1295, you will provide the **RFB No. 2019-267-04-15-ABV**, as shown on the packet. Once completed and filed with the Texas Ethics Commission, Form 1295 must be printed, signed, and submitted to our office either by facsimile transmission to (956) 292-7612 or via email to alexandra.vela@co.hidalgo.tx.us. Hidalgo County cannot enter into a contract until Form 1295 is submitted. Therefore, failure to timely submit signed Form 1295 may result in a delay of the award. Full instructions for completion and submittal of Form 1295 may be found on the Texas Ethics Commission website:

<https://www.ethics.state.tx.us/tec/1295-Info.htm>

THE AWARDED VENDOR WILL HAVE THIRTY (30) DAYS FROM THE DATE THE HIDALGO COUNTY COMMISSIONERS’ COURT APPROVES THIS AGREEMENT TO SUBMIT THE SIGNED FORM 1295. HIDALGO COUNTY CANNOT ENTER INTO A CONTRACT UNTIL FORM 1295 IS SUBMITTED.

23. If during the life of any contract or bid awarded, the successful bidder’s net prices generally available to other customers for items awarded herein are reduced below the contracted price, it is understood and agreed that the benefits of such reduction shall be extended to County.

24. Bids and all goods and services provided hereunder shall comply with all federal, state and local laws

concerning this type(s) of goods and/or services.

25. Minimum Standards for Responsible Prospective Respondents: A prospective respondent must affirmatively demonstrate the respondent's responsibility. A prospective respondent, by submitting an RFB, represents to County that it meets the following requirements:
- Possess or is able to obtain adequate financial resources as required to perform under this RFB;
 - Be able to comply with the required or proposed delivery schedule;
 - Have a satisfactory record of performance;
 - Have a satisfactory record of integrity and ethics; and
 - Be otherwise qualified and eligible to receive an award.
26. Successful bidder will pay or cause to be paid, without cost or expenses to County, all FICA, FUTA/SUTA and Federal Income Withholding Taxes of all employees, and all wages and benefits as required by Federal or State law. Successful bidder's officers, agents, and/or employees will not be entitled to any benefits of an employee or elected official of County, including, but not limited to, benefits associated with County's civil service system.
27. Any contract awarded to the successful bidder will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, (c) terminated by County with thirty (30) days written notice prior to cancellation with or without cause.
28. Any supplemental project-specific contract award to a successful respondent will be in effect until (a) the contract expires, (b) delivery and acceptance of products, and/or performance of services ordered, or (c) terminated by County with thirty (30) days written notice prior to cancellation with or without cause.
29. County reserves the right to enforce performance of any contract awarded hereunder in any manner prescribed by law or deemed to be in the best interest of the County. County reserves the right to terminate the contract immediately in the event of breach or default by a successful respondent, or in the event, a successful respondent fails to:
- A. Meet schedules;
 - B. Pay any required fees or taxes; or
 - C. Otherwise, perform in accordance with the requirements.
30. **INDEMNIFICATION: Successful respondent shall defend, indemnify and save harmless County and all its elected officials, officers, agents and employees from all suits, actions, or other claims of any character, name and description brought for or on account of any injuries or damages received or sustained by any person, persons, or property on account of any negligent act or fault of the successful respondent, or of any agent, employee, subcontractor or supplier in the execution of, or performance under, any contract which may result from bid award or which arises from any event or casualty happening on or within County premises themselves or happening upon or in any halls, elevators, entrances, stairways or approaches of or to such County facilities. Successful respondent shall pay any judgment with costs which may be obtained against county growing out of such injury or damages, and shall, upon request, provide a defense to County by counsel reasonably acceptable to County. Successful respondent's indemnity hereunder shall include but is not limited to, claims relating to patent, copyright or trademark infringement and the like, arising out of the goods and services provided by successful respondent.**

31. The successful respondent shall warrant that all items/services shall conform to the specifications and/or all warranties provided under the Uniform Commercial Code and be free from all defects in material, workmanship and the like. Items supplied under a contract pursuant to this Request for Bids shall be subject to County approval. Items found to be defective or not meeting specifications shall be replaced by the successful respondent within two (2) business days at no expense to County. Items that are not picked up within one (1) week after notification shall be deemed a donation to County and may be used or disposed of at County's discretion and without waiver of any other rights of County as to the items' nonconformity.
32. This document and any disputes arising hereunder shall be governed and construed according to the laws of the State of Texas and will be performable exclusively in Hidalgo County, Texas.
33. The successful respondent shall not assign, sell, transfer or convey its rights under any awarded contract, in whole or in part, without the prior written consent of County.
34. Respondents shall provide with the Bids response, a list of at least three (3) references where like services have been supplied by their firm. Include the name of the business or government, address, telephone number and the name of the representative or contact person.
35. **CONTRACTS SUBJECT TO FEDERAL AWARD:**
 - The procurement standards of 2 CFR, Part 200, including, but not limited to 2 CFR 200.317-200.326, and applicable Hidalgo County Purchasing Policy (found at <https://www.hidalgocounty.us/805/County-Administrative-Policies>) address the County's requirements, as a non-Federal entity, in regards to contracts it enters into that are subject to federal award. Pursuant to 2 CFR 200.236, the County, as a non-Federal entity, is required to include into contracts subject to federal award, the applicable provisions and contract clauses described in Appendix II to 2 CFR 200, (Contract Provisions for non-Federal Entity Contracts Under Federal Awards). As such, **if applicable**, the provisions of the Hidalgo County Purchasing Policy, the procurement standards found in 2 CFR, Part 200, and the provisions of Appendix II to 2 CFR 200, and the required contract clauses found in **Exhibit "H"** are incorporated by reference, whether specified explicitly or not, as part of this procurement packet and any resulting agreement.
 - In addition, should the County's contracts under Federal award be subject to assistance from the Federal Emergency Management Agency (FEMA), FEMA requires the inclusion of contract terms in addition to those under Appendix II to 2 CFR 200. **If applicable**, the additional contract clauses required by FEMA are found in **Exhibit "H"** and incorporated by reference, whether specified explicitly or not, as part of this procurement packet and any resulting agreement. Should the contract be subject to assistance from FEMA, it is the County's intention to comply with FEMA requirements; therefore, any conflict in terms should be resolved as such.
 - **If applicable**, in accordance with 2 CFR 200.319, Contractors that develop or draft specifications, requirements, statements of work, or invitations for bids or requests for proposals must be excluded from competing for such procurements. (See 2 CFR 200.219). Additionally, Hidalgo County policy provides that for federal road projects, engineers, engineering firms, and/or a subsidiary, affiliate, or a consultant of the engineer or engineering firm who has received compensation from the County, that assist in the development of, or draft specifications, requirements, statements of work, or invitations for bids or requests for proposals, will be excluded from competing for such procurements (i.e...subsequent construction engineering/management and/or inspection/testing) for all other phases of the project. (See Hidalgo County Policy) "*Procedures for Selection and Contracting of Professional Service Providers for Federal Road Projects*" found at <https://www.hidalgocounty.us/805/County-Administrative-Policies>,

which, if applicable, is incorporated by reference, whether specified explicitly or not, as part of this procurement packet and any resulting agreement for all purposes.

36. HISTORICALLY UNDERUTILIZED BUSINESS/DISADVANTAGED BUSINESS ENTERPRISES:

The County is committed to ensuring that Historically Underutilized Businesses (HUB) and Disadvantaged Business Enterprises (DBE) such as small business enterprises (SBE), minority and women-owned business enterprises (MWBE) receive a fair and equal opportunity for participation in the County's procurement process. The County encourages the use of these enterprises both as prime and subcontractors. (See **Exhibit "E"** for requirements).

When federal funds are expended by the County, the County will take affirmative steps set forth in 2 CFR 200.321 to assure that small, minority, women-owned businesses and labor surplus area owned firms are used when possible. Pursuant to 2 CFR 321, the County requires that a prime contractor who uses sub-contractors take affirmative steps set forth in 2 CFR 200.321, including:

- a) Placing qualified small and minority business and women's business enterprises on solicitation lists;
- b) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- c) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- d) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and
- e) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

Nothing in this section is to be construed to require the County to award a contract other than as required by law and Hidalgo County policies and procedures.

37. BOYCOTT ISRAEL VERIFICATION: In accordance with the Texas Government Code Chapter 2270, the County may not enter into a contract for goods or services with a vendor unless the contract contains a written verification from the vendor that it does not boycott Israel and will not boycott Israel during the term of the contract. *Pursuant to Sections 2270.001, 2270.002, 808.001, Texas Government Code:*

1. *"Boycott Israel" means refusing to deal with, terminating business activities with, or otherwise taking any action that is intended to penalize, inflict economic harm on, or limit commercial relations specifically with Israel, or with a person or entity doing business in Israel or in an Israeli-controlled territory, but does not include an action made for ordinary business purposes; and*
2. *"Company" has the meaning assigned by Section 808.001, except that the term does not include a sole proprietorship.*
3. *Section only applies to a contract that is between a governmental entity and a company with 10 or more full-time employees; and has a value of \$100,000 or more that is to be paid wholly or partly from public funds of the governmental entity.*

By signing the acknowledgement form to this legal notice, Vendor understands that it is providing written verification and certification as indicated above. Any Vendor claiming an exception or otherwise unable to make this certification, shall submit an explanation on separate sheet(s). Failure to comply or providing false information may result in rejection of Vendor's submission. **Vendor shall indemnify and hold harmless the County, its elected officials, employees and agents for relying on this verification.**

38. TEX. GOVT. CODE CH. 2252- ATTESTATION-TERRORIST ORGANIZATIONS: By submitting a response to this procurement request and/or accepting this Contract, Company attests that it is not identified on a list of companies known to have contracts with or provide supplies or services to a foreign terrorist organization as designated by the U.S. Secretary of State. County will search a database maintained by the Texas State Comptroller. A contract may not be entered into with an entity that is identified therein. Search results shall be incorporated for all purposes as part of any resulting agreement entered into by the parties.
39. Respondents must provide all applicable documentation requested with this RFB in their response. Failure to provide this information may result in rejection of the Bids as non-conforming.
40. Awarded bidder shall assign a project superintendent who is directly employed by the Bidder, that superintendent will be required to be on the job on a daily basis. No subcontractors will be allowed to act as project superintendents at any point during the construction of said project.

Bidder shall have a significant business presence with the Rio Grande Valley Area, the business must be headquartered in either Hidalgo, Cameron, or Starr County or a local office must be located in either of the three counties (Hidalgo, Cameron, Starr) with at least thirty percent (30%) of the total company workforce employed at the local office. County reserves the right to request payrolls and any necessary documentation to confirm that the local office meets these requirements.

Bidders shall carefully examine the plans, specifications and other documents, visit the site of the work, and fully inform themselves as to all conditions and matters which can affect the work or cost thereof. Should the bidder find discrepancies in, or omissions from the plans, specifications or other documents, or should he/she be in doubt as their meaning, he/she should at once notify the Architect/Engineer and obtain clarification by addendum prior to submitting any bid.

Bidder certifies that it will carry liability coverage and workers compensation insurance coverage that meets the requirements set forth in this Request for Bids/Proposals when performing work on this project for Hidalgo County.

Furthermore, bidder certifies that any subcontractor on the project shall provide it with a certificate relating that all employees of the subcontractor also are provided with workers' compensation insurance coverage. Bidder will provide copies of all of these certificates to Hidalgo County during the course of the project for all subcontractors working on the project.

When applicable, in accordance with Chapter 2258 of the Texas Government Code and any other applicable laws, all contractors and subcontractors must comply with federally determined prevailing Davis-Bacon and Related Acts wage rates or the rates adopted by the County of Hidalgo.

Hidalgo County encourages the hiring of minority women subcontractors and/or suppliers whenever and wherever feasible.

REQUEST FOR BIDS
For
HIDALGO COUNTY
“Construction of Bus Barn for Hidalgo County Sheriff’s Office”
RFB No.: 2019-267-04-15-ABV

To: Martha L. Salazar, CPPB, Purchasing Agent
 Hidalgo County Purchasing Department
 Physical Address: 2802 S. Business Hwy. 281 Administration Building
 Mailing/Postal Address: 2812 S. Business Hwy. 281
 Edinburg, Texas 78539

Bidder acknowledges that it has examined this Request for Bids and specifications and is familiar with the conditions to be met. In accordance with the Specifications, and subject to all laws and regulations of the United States and state and local laws, the undersigned respondent proposes and commits to furnish all labor, equipment, material, software, and services as set forth in the documents hereinbefore mentioned. The undersigned bidder further agrees, upon acceptance of its Bids, to execute a contract and/or Purchase Order issued by Hidalgo County for performing and completing the work described in the Specifications within the time stated and for the prices proposed in the documents attached hereto and made a part hereof.

Bidder acknowledges receipt of all of the pages of the documents referenced in the Request for Bids Checklist presented in connection with this procurement. Bidder understands that Hidalgo County reserves the right to reject any or all RFB’s and further reserves the right to design the evaluation criteria to be used in selecting the lowest and best qualification.

Bidder acknowledges that by signature below, it is providing the required certifications, attestations, verifications and/or acknowledgments as referenced within this Request for Bids. Bidder acknowledges that any and all specifications, provisions, and attachments of this Request for Bids are incorporated into and made a part of any resulting agreement.

Bidder agrees that this RFB shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving Bids, as contained in the specifications. An individual authorized to bind the company must sign the following section. Failure to execute this section may result in Bid rejection.

Respectfully submitted,

Firm: _____

Address: _____

By: _____

Printed Name: _____

Title: _____

INFORMATION FOR BIDDERS

1. Receipt and Opening of Bids

The Hidalgo County (herein called the “Owner”), invites bids on the form attached hereto, all blanks of which must be appropriately filled in. Bids will be received by the Owner at the Hidalgo County Purchasing Department until Wednesday, April 15, 2020 at 9:30 a.m. and then at said office publicly open and read aloud. The envelopes containing the bids must be sealed, addressed to Martha L. Salazar, Hidalgo County Purchasing Agent at 2812 S Business 281, Edinburg, Texas 78539 and designated as Bid for Hidalgo County.

The owner may consider informal any bid not prepared and submitted in accordance with provisions hereof and may waive any informalities or reject any and all bids. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 90 days after the actual date of the opening thereof.

2. Preparation of Bid

Each bid must be submitted on the prescribed forms and Certification by Bidder (contractor), concerning Labor Standards and Prevailing Wage Requirements. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures, and the foregoing Certificates must be fully completed and executed when submitted. Each bid must be submitted in a sealed envelopes bearing on the outside the name of the bidder, his address, and the name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another enveloped addressed as specified in the bid form.

3. Subcontracts

The bidder is specifically advised that any person, firm, or other party to whom is proposed to ward a subcontract under this contract –

- a** Must be acceptable to the Owner after verification of the current eligibility status, and,
- b** Approval of the proposed subcontract award cannot be given by the Owner unless and until the proposed subcontractor has submitted the Certification and/or other evidence showing that it has fully complied with any reporting requirements to which it is or was subject. Although the bidder is not required to attach such Certification by proposed subcontractors to his bid, the bidder is here advised of this requirement so that appropriate action can be taken to prevent subsequent delay in subcontract awards.

4. Telegraphic Modification

Any bidder may modify his bid by telegraphic communication at any time prior to the scheduled closing time for receipt of bids, provided such telegraphic communication is received by the Owner prior to the closing time, and provided further, the Owner is satisfied that a written confirmation of the telegraphic modification over the signature of the bidder was mailed prior to the closing time. The telegraphic communication should not reveal the bid price but should provide the additional or subtraction or other modification so that the final prices or terms will not be known by the Owner until the sealed bid is opened. If written confirmation is not received within two days from the closing time, no consideration will be given to the telegraphic modification.

5. Method of Bidding

The Owner invites the following bid(s): Project Name: Construction of a Bus Barn

6. Qualifications of Bidder

The Owner may make such investigations as he deems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request, the Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is properly qualified to carry out the obligations of the contract to complete the work contemplated therein. Conditional bids will not be accepted.

7. Bid Security

Each bid must be accompanied by certified check of the bidder, or a bid bond prepared on the form of bid bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of 5% of the bid. Such checks or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining checks, or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract, or if no award has been made within 90 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid.

8. Liquidated Damages for Failure to enter into Contract

The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds required within 10 days after he has received notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his bid.

9. Time of Completion and Liquidated Damages

Bidder must agree to commence on or before a date to be specified in a Written “Notice to Proceed” of the Owner and to fully complete the project within **60 consecutive calendar days** thereafter. Bidder must agree also to pay as liquidated damages, the sum of **\$250.00** for each consecutive calendar day thereafter as hereinafter provided in the General Conditions.

10. Condition of Work

Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. Insofar as possible the contractor, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with work of any other contractor.

11. Addenda and Interpretations

No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally.

Every request for such interpretation should be emailed to alexandra.vela@co.hidalgo.tx.us Ter the opening of bids. Any all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will mailed by certified mail with return receipt requested to all prospective bidders (at the respective addresses furnished for such purposes), not later than three days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

12. Security for Faithful Performance

Simultaneously with his delivery of the executed contract; the contractor shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract, as specified in the General Conditions included herein. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner.

13. Power of Attorney

Attorney-in-fact who sign bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

14. Notice of Special Conditions

Attention is particularly called to those parts of the contract documents and specification which deal with the following;

- a Inspection and testing of materials
- b Insurance requirements
- c Wage rates
- d States allowances

15. Laws and Regulations

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction of the project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.

16. Method of Award – Lowest Qualified Bidder

If at the time this contract is to be awarded, the lowest base bid submitted by a responsible bidder does not exceed the amount of funds then estimated by the Owner as available to finance the contract the contract will be awarded on the base bid only. If such bid exceeds such amount, the Owner may reject all bids or may award the contract on the base bid combined with such deductible alternates applied in numerical order in which they are listed in the form of Bid, as produces a net amount which is within the available funds.

17. Obligation of Bidder

At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the plans and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation in respect of his bid.

**Supplement to Form HUD-4238-B®
INFORMATION FOR BIDDERS**

18. SAFETY STANDARDS AND ACCIDENTS PREVENTION

With respect to all work performed under this contract, the contractor shall:

- 1 Comply with the safety standards provision of applicable laws, building and construction codes and the “Manual of Accident Prevention in Construction” published by the Associates General Contractors or America, the requirements of the Occupational Safety and Health Act of 1970 (Public Laws 91-596), and the requirements of Title 29 of the Code of Federal Regulations, Section 1518 as published in the “Federal Register”, Volume 36, No 75, Saturday, April 17, 1971.
- 2 Exercise every precaution at all times for the prevention of accidents and the protection of persons (including employees) and property.
- 3 Maintain at his office or other well known place at the job site, all articles necessary for giving first aid to the injured, and shall make standing arrangements for the immediate removal to a hospital or a doctor’s care of persons (including employee), whom may be injured on the job site. In no case shall employee be permitted to work at a job site before the employer has made a standing arrangement for removal of injured person to a hospital or a doctor’s care.

HIDALGO COUNTY

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned _____
_____ as Principal, and _____
_____ as Surety, are hereby held and firmly bound
unto _____ as OWNER in the penal sum of _____

_____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed, this _____ day of _____, 2_____.

The condition of the above obligation is such that whereas the Principal has submitted to _____
_____ a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing for the

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or
- (b) If said Bid shall be accepted and the Principal shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said BID) and Shall furnish a BOND for his faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said BID, then, this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation is herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

_____(L.S.)
Principal

Surety

By:_____

IMPORTANT – Surety companies executing BONDS must appear on the Treasury Department’s most current list (circular 570 as amended) and be authorized to transact business in the state where the project is located.

HCSO BUS BARN

HIDALGO COUNTY CONTRACT #C-18-142-05-08

EDINBURG, TEXAS



OFFICIALS

COUNTY JUDGE
 COMMISSIONER PRECINCT 1
 COMMISSIONER PRECINCT 2
 COMMISSIONER PRECINCT 3
 COMMISSIONER PRECINCT 4
 COUNTY SHERIFF

RICHARD F. CORTEZ
 DAVID L. FUENTES
 EDUARDO "EDDIE" CANTU
 JOE M. FLORES
 ELLIE TORRES
 J.E. EDDIE GUERRA

CONSTRUCTION DOCUMENTS

PROJECT TEAM

Civil Engineering
 Halff Associates, Inc.
 5000 West Military Highway, Ste. 100
 McAllen, Texas 78503-7446
 Tel: 956.644.0286
 Fax: 956.644.0282

Raul Garcia Jr, P.E.
 Email: RGarcia@Halff.com

Structural Engineering
 Chanin Engineering, LLC
 400 Nolana, Suite. H2
 McAllen, Texas 78504
 Tel: 956.687.9421
 Fax: 956.687.3211

Miguel Chanin, P.E.
 Email: miguel@chaninengineering.com

Mechanical Engineering
 Halff Associates, Inc.
 5000 West Military Highway, Ste. 100
 McAllen, Texas 78503-7446
 Tel: 956.644.0286
 Fax: 956.644.0282

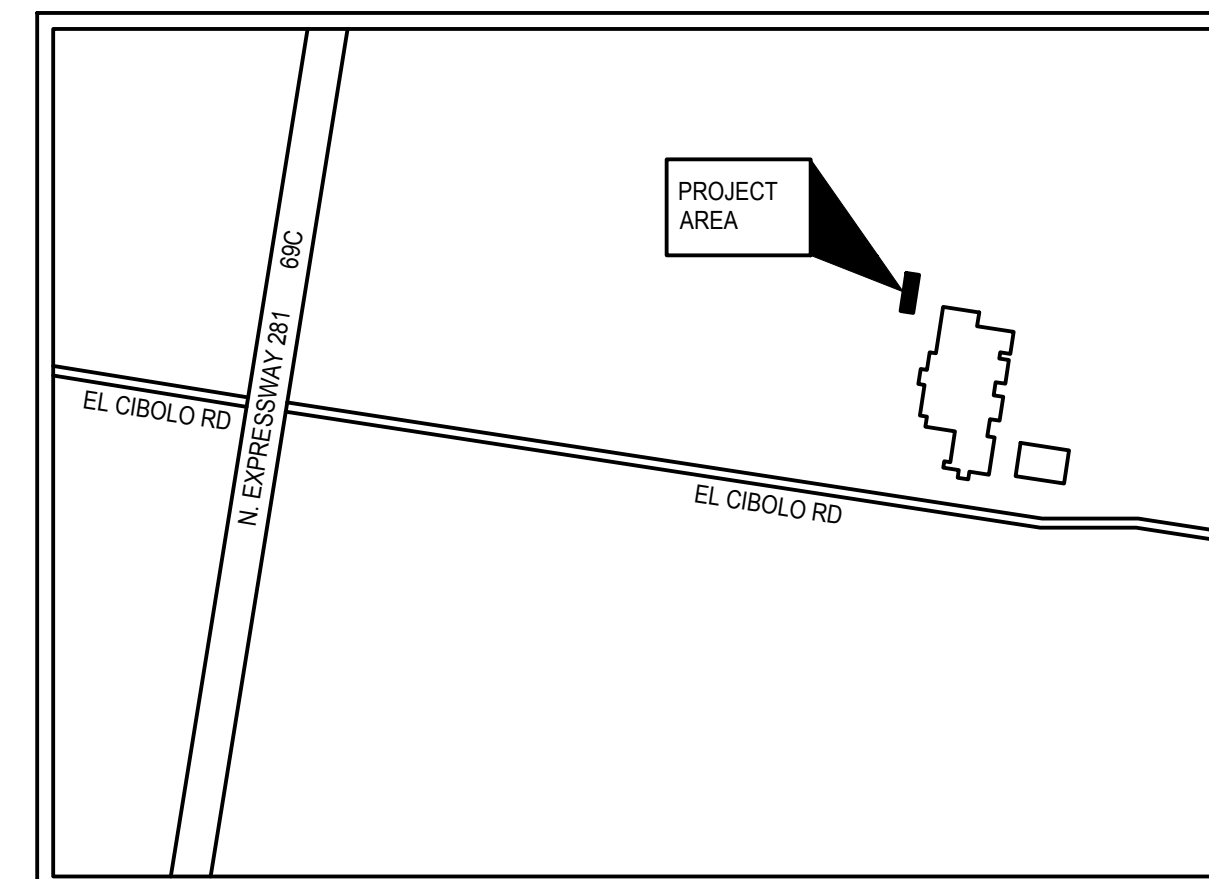
Roberto H. Tijerina, P.E.
 Email: RTijerina@Halff.com

Electrical Engineering
 Halff Associates, Inc.
 5000 West Military Highway, Ste. 100
 McAllen, Texas 78503-7446
 Tel: 956.644.0286
 Fax: 956.644.0282

Jose Cruz Gonzalez, P.E.
 Email: jose.gonzalez@Halff.com

LOCATION

HIDALGO COUNTY ADULT DETENTION FACILITY
 711 EL CIBOLO RD
 Edinburg, Texas 78541



VICINITY MAP N.T.S.

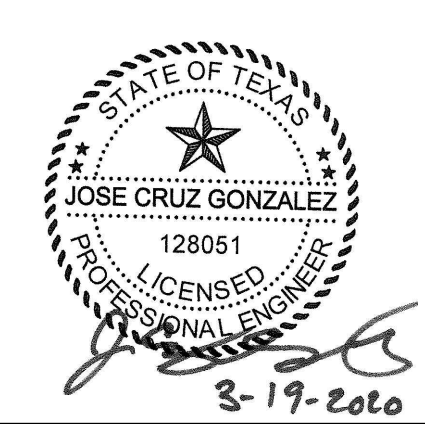
SHEET INDEX

SHEET #	SHEET NAME
COVER SHEET	
G001	COVER SHEET
CIVIL	
C1.00	GENERAL NOTES
C1.01	TECHNICAL SPECIFICATIONS
C1.02	TECHNICAL SPECIFICATIONS
C1.03	TECHNICAL SPECIFICATIONS
C2.00	PAVING AND DIMENSION CONTROL PLAN
C3.00	GRADING PLAN
C4.00	SUGGESTED EROSION CONTROL PLAN
C5.00	SUGGESTED EROSION CONTROL PLAN DETAILS
C6.00	MISCELLANEOUS DETAILS
STRUCTURAL	
S1.0	STRUCTURAL GENERAL NOTES
S1.1	STRUCTURAL GENERAL NOTES
S1.2	ROOF UPLIFT PLAN
S2.0	FOUNDATION AND ROOF RAMING PLANS
S3.0	STRUCTURAL DETAILS
ELECTRICAL	
E001	ELECTRICAL SPECIFICATIONS
E100	ELECTRICAL GENERAL LEGEND
E101	ELECTRICAL SITE PLAN
E102	ELECTRICAL POWER PLAN
E103	ELECTRICAL LIGHTING PLAN
E104	ELECTRICAL SCHEDULES
E105	ELECTRICAL DETAILS
PLUMBING	
P100	PLUMBING SCHEDULES, DETAILS & SPECIFICATIONS
P101	PLUMBING SITE PLAN

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541



Revision No.	Date	Description



Project No.:	34015.004
Issued:	02/10/2020
Drawn By:	J.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title	COVER SHEET
Sheet Number	G001

File Name: i:\34000s\34015\004\MEP\CADD\G001-C3-34015.004.dwg
 Current Tab (Layout): COVER SHEET User: AH1497
 Printed Date: 3/19/2020 3:06:54 PM

GENERAL CONSTRUCTION NOTES

- 1) ALL IMPROVEMENTS TO BE IN ACCORDANCE WITH COUNTY CODES.
- 2) CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 3) CONTRACTOR TO PLAN AND PERFORM HIS WORK IN A MANNER THAT WILL PERMIT SAFE PUBLIC TRAFFIC MOVEMENT ON ALL STREETS.
- 4) TEMPORARY TRAFFIC CONTROL DURING CONSTRUCTION TO BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 5) CONTRACTOR SHALL PROVIDE PROTECTIVE DEVICES SUCH AS SIGNS, LIGHTS, AND SIGNALS FOR THE SAFETY OF THE PUBLIC AND WORKERS, AS REQUIRED, (NO SEPARATE PAY)
- 6) CONTRACTOR TO BE RESPONSIBLE FOR PROTECTION AND/OR SAFETY OF THE WORK SITE, WORKERS, SUBCONTRACTORS, MATERIALS AND/OR EQUIPMENT.
- 7) CONSTRUCTION STAKING SHALL BE PROVIDED BY THE CONTRACTOR AND AT CONTRACTOR'S EXPENSE. BASE LINES ARE STAKED AS SHOWN ON PLANS. ALL DIMENSIONS ARE TO BACK OF CURBS UNLESS SHOWN OTHERWISE.
- 8) MATERIAL TESTING SHALL BE PAID FOR BY THE COUNTY. THE TESTING LAB SHALL BE CHOSEN BY THE COUNTY. RE-TEST TO BE AT CONTRACTOR'S EXPENSE.
- 9) CONTRACTOR SHALL COORDINATE WITH TXDOT REGARDING ALL WORK LOCATED WITHIN TXDOT R.O.W. 72 HOURS PRIOR TO COMMENCEMENT
- 10) ANY DAMAGE TO EXISTING PAVEMENT, DRAINAGE OR EXISTING STRUCTURES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITION AT CONTRACTOR'S EXPENSE.
- 11) "THESE PLANS, PREPARED BY HALFF ASSOCIATES, INC. DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF HALFF ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS REQUIRED BY THE HOUSE BILLS 622 AND 685 ENACTED BY THE TEXAS LEGISLATURE IN THE 7-TH LEGISLATURE REGULAR SESSION."
- 12) CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS 72 HOURS PRIOR TO COMMENCEMENT OF WORK. NOTIFY TEXAS ONE CALL FOR UTILITY LOCATIONS PRIOR TO ANY & ALL EXCAVATIONS.
- 13) CONTRACTOR TO COORDINATE WITH THE COUNTY ON WORK SCHEDULES, TESTING, GENERAL INSPECTION, AND EXISTING LINES.
- 14) CONTRACTOR TO EXERCISE CAUTION WHEN WORKING NEAR EXISTING FACILITIES AND/OR UTILITIES. ALL DAMAGE TO BE REPAIRED AT CONTRACTOR'S EXPENSE. ALL COSTS FOR INTERRUPTION OF GAS, ELECTRICAL, COMMUNICATIONS AND/OR WATER SERVICE DUE TO CONTRACTOR'S WORK SHALL BE BORNE BY THE CONTRACTOR.
- 15) INFORMATION ON EXISTING UTILITIES IS FROM BEST AVAILABLE INFORMATION OF RECORD AND SPOT FIELD LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION AND LOCATION OF THESE UNDERGROUND UTILITIES AS REQUIRED AT NO SEPARATE PAY. COUNTY PERSONNEL WILL BE AVAILABLE FOR ASSISTANCE AND OPERATION OF VALVES AS REQUIRED. CONTRACTOR TO COORDINATE WITH OTHER UTILITIES COMPANIES, ELECTRICAL UTILITIES, GAS UTILITIES AND TELEPHONE UTILITIES.
- 16) ALL SPOIL MATERIAL AND DEBRIS SHALL BE DISPOSED OFF SITE BY CONTRACTOR IN A LEGAL MANNER. FURNISHING AND TRANSPORTATION OF ALL OFF SITE MATERIAL TO BE AT CONTRACTOR'S EXPENSE.
- 17) UPON COMPLETION OF CONSTRUCTION CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO INSURE NO AREAS OF PONDING ARE PRESENT.
- 18) CONCRETE NOTES:
 A) ALL CONCRETE WORK TO BE FORMED, UNLESS OTHERWISE APPROVED.
 B) ALL CONCRETE TO BE 4000-PSI MINIMUM AT 28 DAYS, UNLESS OTHERWISE SHOWN. STRENGTH TO BE DETERMINED BY CYLINDER BREAK TEST.
 C) ALL REINFORCING STEEL TO BE ASTM A-615, GRADE 60, UNLESS OTHERWISE SHOWN.
 D) ALL EXPOSED CONCRETE WORK TO BE CHAMFERED.
- 19) CONTRACTOR TO INSURE SAME DAY ACCESS ALL RESIDENCES AND BUSINESSES ADJACENT TO CONSTRUCTION.
- 20) DEMOLITION, REMOVAL & DISPOSAL OF ALL EXCESS CONCRETE, CURBS, RUBBLE, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- 21) ALL STRUCTURES TO BE ADJUSTED BY THE CONTRACTOR TO MEET FINAL GRADES, A MAXIMUM OF 2 FEET OF THROAT RINGS WILL BE ALLOWED.


PAVING CONSTRUCTION NOTES:

- 1) HOT MIX ASPHALT CONCRETE TO BE IN ACCORDANCE WITH TXDOT SPECIFICATION TYPE "D".
- 2) SUBGRADE EXCAVATION AND RECOMPACTION TO BE INCLUDED IN PRICE BID PER SQUARE YARD FOR "LIME TREATED SUBGRADE."
- 3) CONTRACTOR TO FILL BEHIND CURBS AND WALKS AND SHAPE TO ENSURE PROPER DRAINAGE.
- 4) CONTRACTOR SHALL "LAY DOWN" CURB SECTION AT DRIVEWAYS LOCATIONS SHOWN ON DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO GRADE FROM EXISTING DRIVES AND PARKING AREAS TO MATCH GRADES AND ALLOW SMOOTH TRANSITIONS AND PROPER DRAINAGE.
- 5) CONSTRUCTION JOINTS TO EXISTING PAVEMENT SHALL BE MADE BY EITHER CUTTING BACK EXISTING TO PRODUCE A SLIGHTLY BEVELED EDGE FOR THE FULL THICKNESS OF THE WEARING COURSE OR A SUITABLE LAP JOINT SHALL BE MADE. SAW CUTTING REQUIRED.
- 6) NO TRAFFIC SHALL BE ALLOWED ON THE FINISHED WEARING SURFACE UNTIL AT LEAST 12 HOURS AFTER COMPLETION OF ROLLING.
- 7) WHEN TYING INTO EXISTING CURB, EXPOSE REBAR AND FORM EXPANSION JOINT PER DETAIL.
- 8) ANY SETTLEMENT UNDER PAVEMENT DUE TO INADEQUATE COMPACTION OF UTILITY LINE BACKFILL SHALL BE CAUSE FOR RECOMPACTION OF TRENCH AND REPLACEMENT OF PAVEMENT SECTION AT CONTRACTOR'S EXPENSE.
- 9) HOT MIX ASPHALT CONCRETE TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS DURING MATERIAL HAULING. HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225°F.
- 10) AT AREAS WHERE EXISTING PAVEMENT IS TO REMAIN, ALL EXISTING STRIPING IS TO BE REMOVED PER TXDOT 2014 SPECS., ITEM 677.

TBM #1
 SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS
 ELEVATION = 88.12(NAVD88)
 N=16677478.25
 E=1106560.91
 (NAD83)

TBM #2
 SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS
 ELEVATION = 87.38(NAVD88)
 N=16677357.72
 E=1106485.55
 (NAD83)

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541




600 WEST UNIVERSITY, SUITE 100
 McALLEN, TX 78501
 (956) 664-0286

Revision No.	Date	Description



Project No.:	34015-004
Issued:	JANUARY 21, 2020
Drawn By:	FC
Checked By:	RGJ
Scale:	AS NOTED
Sheet Title	GENERAL NOTES
C1.00	Sheet Number

MCA 18/04/2020
 ..\\HALFF\ADMIN\TABLET\..\\P01_20_0001_P01_02_001.dwg
 DWG: 18/04/2020 09:00:00
 PLOT: 18/04/2020 09:00:00
 2:07:27 PM
 18/04/2020

CIVIL SPECIFICATIONS

SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.01 WORK INCLUDED
A. CONTRACTOR SHALL SUBMIT DOCUMENTATION AS REQUIRED BY THE CONTRACT DOCUMENTS AND AS REASONABLY REQUESTED BY THE OWNER AND ENGINEER TO:

- 1. RECORD THE PRODUCTS INCORPORATED INTO THE PROJECT FOR THE OWNER.
2. PROVIDE INFORMATION FOR OPERATION AND MAINTENANCE OF THE PROJECT.
3. PROVIDE INFORMATION FOR THE ADMINISTRATION OF THE CONTRACT.
4. ALLOW THE ENGINEER TO ADVISE THE OWNER IF PRODUCTS PROPOSED FOR THE PROJECT BY THE CONTRACTOR CONFORM, IN GENERAL, WITH THE DESIGN CONCEPTS OF THE CONTRACT DOCUMENTS.

B. CONTRACTORS RESPONSIBILITY FOR FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS IS NOT RELIEVED BY THE ENGINEERS REVIEW OF SUBMITTALS, CONTRACT MODIFICATIONS MAY ONLY BE APPROVED BY CHANGE ORDER OR FIELD ORDER.

1.02 CONTRACTORS RESPONSIBILITIES
A. REVIEW ALL SUBMITTALS PRIOR TO SUBMISSION.

- B. DETERMINE AND VERIFY:
1. FIELD MEASUREMENTS
2. FIELD CONSTRUCTION REQUIREMENTS.
3. LOCATION OF ALL EXISTING STRUCTURES, UTILITIES AND EQUIPMENT RELATED TO THE SUBMITTALS.
4. SUBMITTALS ARE COMPLETE FOR THEIR INTENDED PURPOSE.
5. CONFLICTS BETWEEN THE SUBMITTALS RELATED TO THE VARIOUS SUBCONTRACTORS AND SUPPLIERS HAVE BEEN RESOLVED.
6. QUANTITIES AND DIMENSIONS SHOWN ON THE SUBMITTALS.

C. SUBMIT INFORMATION PER THE PROCEDURES DESCRIBED IN THIS SECTION AND THE DETAILED SPECIFICATIONS.

- D. FURNISH THE FOLLOWING SUBMITTALS:
1. AS SPECIFIED IN THE ATTACHED SUBMITTAL SCHEDULE.
2. SCHEDULES, DATA AND OTHER DOCUMENTATION AS DESCRIBED IN DETAIL IN THIS SECTION OR REFERENCED IN THE GENERAL CONDITIONS.
3. SUBMITTALS AS REQUIRED IN THE DETAILED SPECIFICATIONS.
4. SUBMITTALS NOT REQUIRED WILL BE RETURNED WITHOUT ENGINEER'S REVIEW.

E. SUBMIT A SCHEDULE INDICATING THE DATE SUBMITTALS WILL BE SENT TO THE ENGINEER AND PROPOSED DATES THAT THE PRODUCT WILL BE INCORPORATED INTO THE PROJECT. MAKE SUBMITTALS PROMPTLY IN ACCORDANCE WITH THE SCHEDULE SO AS TO CAUSE NO DELAY IN THE PROJECT.

F. SUBMITTALS SHALL BE SENT TO ENGINEER ALLOWING A REASONABLE TIME FOR DELIVERY, REVIEW AND MARKING SUBMITTALS, TIME FOR REVIEW IS TO INCLUDE TIME FOR RESUBMISSION AS NECESSARY AND TO ALLOW ADEQUATE TIME FOR THE ORDERING, FABRICATION AND DELIVERY OF THE PRODUCT.

G. SCHEDULE SUBMITTAL TO PROVIDE ALL INFORMATION FOR INTERRELATED WORK AT ONE TIME. NO REVIEW WILL BE PERFORMED ON SUBMITTALS REQUIRING COORDINATION WITH OTHER SUBMITTALS. ENGINEER WILL RETURN SUBMITTALS FOR RESUBMISSION AS A COMPLETE PACKAGE.

H. INSTALLATION OF ANY PRODUCTS PRIOR TO THE APPROVAL OF SHOP DRAWINGS IS DONE AT THE CONTRACTOR'S RISK. PRODUCTS NOT MEETING THE REQUIREMENTS OF CONTRACT DOCUMENTS ARE DEFECTIVE AND MAY BE REJECTED AT THE OWNERS OPTION.

I. PAYMENT WILL NOT BE MADE FOR PRODUCTS FOR WHICH SUBMITTALS ARE REQUIRED UNTIL THE SUBMITTALS HAVE BEEN APPROVED. PAYMENT WILL NOT BE MADE FOR PRODUCTS FOR WHICH SHOP DRAWINGS OR SAMPLES ARE REQUIRED UNTIL THESE ARE APPROVED BY THE ENGINEER.

1.03 QUALITY ASSURANCE

A. SUBMIT LEGIBLE, ACCURATE, COMPLETE DOCUMENTS PRESENTED IN A CLEAR, EASILY UNDERSTOOD MANNER. SUBMITTALS NOT MEETING THIS CRITERION WILL BE RETURNED WITHOUT REVIEW.

B. DEMONSTRATE THAT THE PROPOSED PRODUCTS ARE IN FULL AND COMPLETE COMPLIANCE WITH THE DESIGN CRITERIA AND REQUIREMENTS OF THE CONTRACT DOCUMENTS INCLUDING DRAWINGS AND SPECIFICATIONS AS MODIFIED BY ADDENDA, FIELD ORDERS AND CHANGE ORDERS.

C. FURNISH AND INSTALL PRODUCTS THAT FULLY COMPLY WITH THE INFORMATION INCLUDED IN THE SUBMITTAL.

D. REVIEW AND APPROVE SUBMITTALS PRIOR TO SUBMITTING THEM TO THE ENGINEER FOR REVIEW. SUBMITTALS WILL NOT BE ACCEPTED FROM SUBCONTRACTORS, SUPPLIERS, OR ANYONE OTHER THAN THE CONTRACTOR.

1.04 OPERATION AND MAINTENANCE MANUAL

A. THE CONTRACTOR SHALL OBTAIN FROM THE VARIOUS SUBCONTRACTORS VARIOUS OPERATION AND MAINTENANCE DATA, REPLACEMENT PARTS LISTS, MAINTENANCE SCHEDULE REQUIREMENTS, ETC., AND BIND THE INFORMATION INTO A REFERENCE MANUAL. TWO SETS SHALL BE TURNED OVER TO THE ENGINEER/ARCHITECT PRIOR TO REQUEST FOR FINAL PAYMENT.

B. OPERATION AND MAINTENANCE MANUALS SHALL BE NEATLY BOUND WITH EACH TRADE SO INDEXED. IN SOME CASES, APPROVED SHOP DRAWINGS AND SUBMITTALS MAY SUFFICE FOR USE IN THIS REGARD. EQUIPMENT PARTS LISTS FOR REPLACEMENT PURPOSES SHALL BE INCLUDED WHEREVER POSSIBLE.

1.05 SUBMITTAL PROCEDURES

A. DELIVER SUBMITTALS TO THE ENGINEER.

B. ASSIGN A NUMBER TO THE DOCUMENTS ORIGINATED TO ALLOW TRACKING OF THE SUBMITTAL DURING THE REVIEW PROCESS.

1. ASSIGN A NUMBER CONSISTING OF A PREFIX, A SEQUENCE NUMBER, AND A LETTER SUFFIX. PREFIXES SHALL BE AS FOLLOWS:

Table with 3 columns: PREFIX, DESCRIPTION, ORIGINATOR. Rows include CO (CHANGE ORDER), CTR (CERTIFIED TEST REPORT), EIR (EQUIPMENT INSTALLATION REPORT), etc.

2. ISSUE SEQUENCE NUMBERS IN CHRONOLOGICAL ORDER FOR EACH TYPE OF SUBMITTAL.

3. ISSUE NUMBERS FOR RE-SUBMITTALS THAT HAVE THE SAME NUMBER AS THE ORIGINAL SUBMITTAL FOLLOWED BY AN ALPHABETICAL SUFFIX INDICATING THE NUMBER OF TIMES THE SAME SUBMITTAL HAS BEEN SENT TO THE ENGINEER FOR PROCESSING. FOR EXAMPLE: SO-025-A REPRESENTS A SHOP DRAWING THAT IS THE TWENTY-FIFTH SUBMITTAL OF HIS TYPE AND IS THE SECOND TIME THIS SUBMITTAL HAS BEEN SENT FOR REVIEW.

4. CLEARLY NOTE THE SUBMITTAL NUMBER ON EACH PAGE OR SHEET OF THE SUBMITTAL.

5. CORRECT ASSIGNMENT OF NUMBERS IS ESSENTIAL SINCE DIFFERENT SUBMITTAL TYPES ARE PROCESSED IN DIFFERENT WAYS.

C. SUBMIT DOCUMENTS WITH UNIFORM MARKINGS AND PAGE SIZES.

1. PAPER SIZE SHALL ALLOW FOR EASE OF REPRODUCTION.

D. SUBMIT DOCUMENTS ON 8-1/2" X 11" PAPER HERE PRACTICAL.

1. USE 11" X 17" PAPER FOR LARGER DRAWINGS AND SCHEMATICS.

2. USE FULL SIZE BLUELINE SHEETS FOR FABRICATIONS AND LAYOUT DRAWINGS. REPRODUCIBLE DRAWINGS MAY BE SUBMITTED IN LIEU OF BLUELINES.

3. MARK SUBMITTALS TO:
a. INDICATE CONTRACTORS CORRECTIONS IN GREEN.
b. HIGHLIGHT ITEMS PERTINENT TO THE PRODUCTS BEING FURNISHED IN YELLOW AND DELETE ITEMS THAT ARE NOT WHEN THE MANUFACTURERS STANDARD DRAWINGS OR INFORMATION SHEETS ARE PROVIDED.
c. CLOUD ITEMS AND HIGHLIGHT IN YELLOW WHERE SELECTIONS BY THE ENGINEER OR OWNER ARE REQUIRED.
d. MARK DIMENSIONS WITH THE PREFIX FD TO INDICATE FIELD VERIFIED DIMENSIONS ON THE DRAWINGS.
e. PROVIDE A BLANK SPACE 8" X 3" FOR CONTRACTOR'S AND ENGINEERS STAMP.

A. MARK SUBMITTALS TO REFERENCE THE DRAWING NUMBER AND/OR SECTION OF THE SPECIFICATIONS, DETAIL, DESIGNATION, SCHEDULE OR LOCATION THAT CORRESPONDS WITH THE DATA SUBMITTED, OTHER IDENTIFICATION MAY ALSO BE REQUIRED, SUCH AS LAYOUT DRAWINGS OR SCHEDULES TO ALLOW THE REVIEWER TO DETERMINE WHERE A PARTICULAR PRODUCT IS TO BE USED.

B. THE NUMBER OF COPIES OF EACH SUBMITTAL TO BE SENT BY THE CONTRACTOR AND THE NUMBER OF COPIES OF EACH SUBMITTAL TO BE RETURNED ARE:

Table with 4 columns: PREFIX, DESCRIPTION, NO. OF COPIES SENT, NO. OF COPIES RETURNED. Rows include CO, CTR, EIR, NRC, O&M, etc.

1.06 REVIEW PROCEDURES

A. PRIORITY SUBMITTALS WILL BE REVIEWED BEFORE OTHER SUBMITTALS FOR THIS PROJECT WHICH HAVE BEEN RECEIVED BUT NOT REVIEWED.

1.07 REQUIREMENTS

A. CERTIFICATIONS, WARRANTIES AND SERVICE AGREEMENTS INCLUDE DOCUMENTS AS SPECIFIED IN THE DETAILED SPECIFICATIONS AS SHOWN IN THE SUBMITTAL SCHEDULE OR AS FOLLOWS:

- 1. CERTIFIED TEST REPORTS (CTR) - A REPORT PREPARED BY AN APPROVED TESTING AGENCY GIVING RESULTS OF TESTS PERFORMED ON PRODUCTS TO INDICATE THEIR COMPLIANCE WITH THE SPECIFICATIONS.
2. CERTIFICATION OF LOCAL FIELD SERVICE (CLS) - A CERTIFIED LETTER STATING THAT FIELD SERVICE IS AVAILABLE FROM A FACTORY OR SUPPLIER APPROVED SERVICE ORGANIZATION LOCATED WITHIN A 300 MILE RADIUS OF THE PROJECT SITE. LIST NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF APPROVED SERVICE ORGANIZATIONS ON OR ATTACH TO THE CERTIFICATE.

3. EXTENDED WARRANTY (EW) - A GUARANTEE OF PERFORMANCE FOR THE PRODUCT OR SYSTEM BEYOND THE NORMAL ONE (1) YEAR WARRANTY DESCRIBED IN THE GENERAL CONDITIONS, ISSUE THE WARRANTY CERTIFICATE IN THE NAME OF THE PROJECT OWNER.

4. EXTENDED SERVICE AGREEMENT (ESA) - A CONTRACT TO PROVIDE MAINTENANCE BEYOND THAT REQUIRED TO FULFILL REQUIREMENTS FOR WARRANTY REPAIRS, OR TO PERFORM ROUTINE MAINTENANCE FOR A DEFINITE PERIOD OF TIME BEYOND THE WARRANTY PERIOD. ISSUE THE SERVICE AGREEMENT IN THE NAME OF THE PROJECT OWNER.

5. CERTIFICATION OF ADEQUACY OF DESIGN (CAD) - A CERTIFIED LETTER FROM THE MANUFACTURER OF THE EQUIPMENT STATING THAT THEY HAVE DESIGNED THE EQUIPMENT TO BE STRUCTURALLY STABLE AND TO WITHSTAND ALL IMPOSED LOADS WITHOUT DEFORMATION, FAILURE, OR ADVERSE EFFECTS TO THE PERFORMANCE AND OPERATIONAL REQUIREMENTS OF THE UNIT. THE LETTER SHALL STATE THAT MECHANICAL AND ELECTRICAL EQUIPMENT IS ADEQUATELY SIZED TO BE FULLY OPERATIONAL FOR THE CONDITIONS SPECIFIED OR NORMALLY ENCOUNTERED BY THE PRODUCT'S INTENDED USE.

6. CERTIFICATION OF APPLICATOR/SUBCONTRACTOR (CSQ) - A CERTIFIED LETTER STATING THAT THE APPLICATOR OR SUBCONTRACTOR PROPOSED TO PERFORM A SPECIFIED FUNCTION IS DILIGENTLY DESIGNED AS FACTORY AUTHORIZED AND TRAINED FOR THE APPLICATION OF THE SPECIFIED PRODUCT.

B. SUBMIT RECORD DATA TO PROVIDE INFORMATION TO ALLOW THE OWNER TO ADEQUATELY IDENTIFY THE PRODUCTS INCORPORATED INTO THE PROJECT AND ALLOW REPLACEMENT OR REPAIR AT SOME FUTURE DATE.

1. PROVIDE RECORD DATA FOR ALL PRODUCTS. RECORD DATA IS NOT REQUIRED FOR ITEMS FOR WHICH SHOP DRAWINGS AND/OR OPERATIONS AND MAINTENANCE MANUALS ARE REQUIRED.

2. PROVIDE INFORMATION ONLY ON THE SPECIFIED PRODUCTS. SUBMIT A CONTRACTOR'S MODIFICATION REQUEST FOR APPROVAL OF DEVIATIONS OR SUBSTITUTIONS AND OBTAIN APPROVAL BY FIELD ORDER OR CHANGE ORDER PRIOR TO SUBMITTING RECORD DATA.

3. RECORD DATA WILL BE RECEIVED BY THE ENGINEER, LOGGED, AND PROVIDED TO OWNER FOR HIS/HER RECORD.

a. RECORD DATA MAY BE REVIEWED TO SEE THAT THE INFORMATION PROVIDED IS ADEQUATE FOR THE PURPOSE INTENDED. INADEQUATE DRAWINGS MAY BE RETURNED AS UNACCEPTABLE.

b. RECORD DATA IS NOT REVIEWED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. COMMENTS MAY BE RETURNED IF DEVIATIONS FROM THE CONTRACT DOCUMENTS ARE NOTED DURING THE CURSORY REVIEW PERFORMED TO SEE THAT THE INFORMATION IS ADEQUATE.

1.08 REQUESTS FOR DEVIATION

A. SUBMIT REQUESTS FOR DEVIATION FROM THE CONTRACT DOCUMENTS FOR ANY PRODUCT THAT DOES NOT FULLY COMPLY WITH THE SPECIFICATIONS.

B. SUBMIT REQUEST BY CONTRACTOR'S MODIFICATION REQUEST (CMR) PER SECTION 01040, PROJECT ADMINISTRATION. IDENTIFY THE DEVIATIONS AND THE REASON THE CHANGE IS REQUESTED.

C. DEVIATIONS THAT RESULT IN A REDUCTION IN COST SHALL ALSO INCLUDE THE AMOUNT OF THE REDUCTION TO THE OWNER.

D. A CHANGE ORDER OR FIELD ORDER WILL BE ISSUED BY THE ENGINEER FOR DEVIATIONS APPROVED BY THE OWNER. DEVIATIONS FROM THE CONTRACT DOCUMENTS MAY ONLY BE APPROVED BY CHANGE ORDER OR FIELD ORDER.

1.09 SUBMITTALS FOR SUBSTITUTIONS

A. SUBSTITUTIONS ARE DEFINED AS ANY PRODUCT THAT THE CONTRACTOR PROPOSES TO PROVIDE FOR THE PROJECT IN LIEU OF THE SPECIFIED PRODUCT.

B. IF THE CONTRACTOR DESIRES TO SUBMIT A MANUFACTURER OR PRODUCT WHICH IS NOT SPECIFIED, THE CONTRACTOR MUST SUBMIT THE FOLLOWING FOR CONSIDERATION OF APPROVAL OF THE SUBSTITUTION:

1. CONTRACTOR'S MODIFICATION REQUEST FOR DEVIATION FROM THE CONTRACT DOCUMENTS PER PARAGRAPH 1.07.

2. PROVE THAT THE PRODUCT IS ACCEPTABLE AS A SUBSTITUTE. IT IS NOT THE ENGINEERS RESPONSIBILITY TO PROVE THE PRODUCT IS NOT ACCEPTABLE AS A SUBSTITUTE.

- a. INDICATE ON A POINT BY POINT BASIS FOR EACH SPECIFIED FEATURE THAT THE PRODUCT IS ACCEPTABLE TO MEET THE INTENT OF THE CONTRACT DOCUMENTS REQUIREMENTS.
b. MAKE A DIRECT COMPARISON WITH THE SPECIFIED MANUFACTURERS PUBLISHED DATA SHEETS AND AVAILABLE INFORMATION. PROVIDE THIS PRINTED MATERIAL WITH THE SUBMITTAL.
c. THE DECISION OF THE ENGINEER REGARDING THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTED PRODUCT IS FINAL.

3. PROVIDE A TYPEWRITTEN CERTIFICATION THAT, IN MAKING THE SUBSTITUTION REQUEST, THE CONTRACTOR:

- a. HAS DETERMINED THAT THE SUBSTITUTED PRODUCT WILL PERFORM IN SUBSTANTIALLY THE SAME MANNER AND RESULT IN THE SAME ABILITY TO MEET THE SPECIFIED PERFORMANCE AS THE SPECIFIED PRODUCT.
b. WILL PROVIDE THE SAME WARRANTIES AND/OR BONDS FOR THE SUBSTITUTED PRODUCT AS SPECIFIED OR AS WOULD BE PROVIDED BY THE MANUFACTURER OF THE SPECIFIED PRODUCT.
c. WILL ASSUME ALL RESPONSIBILITY TO COORDINATE AND MODIFICATIONS THAT MAY BE NECESSARY TO INCORPORATE THE SUBSTITUTED PRODUCT INTO THE PROJECT AND WILL WAIVE ALL CLAIMS FOR ADDITIONAL WORK WHICH MAY BE NECESSARY TO INCORPORATE THE SUBSTITUTED PRODUCT INTO THE PROJECT WHICH MAY SUBSEQUENTLY BECOME APPARENT.
d. WILL MAINTAIN THE SAME TIME SCHEDULE AS FOR THE SPECIFIED PRODUCT.

1.10 GUARANTEES

A. WARRANTIES AND GUARANTEES SHALL BE SUBMITTED AS REQUIRED BY THE CONTRACT DOCUMENTS AND SUBMITTED WITH THE SHOP DRAWINGS OR RECORD DATA.

1.11 RESUBMISSION REQUIREMENTS

A. MAKE ALL CORRECTIONS OR CHANGES IN THE SUBMITTALS REQUIRED BY THE ENGINEER AND RESUBMIT UNTIL APPROVED.

B. NEED FOR MORE THAN ONE RESUBMISSION OR ANY OTHER DELAY OF OBTAINING ENGINEER'S REVIEW OF SUBMITTALS, WILL NOT ENTITLE THE CONTRACTOR TO AN EXTENSION OF CONTRACT TIME. ALL COSTS ASSOCIATED WITH SUCH DELAYS SHALL BE AT THE CONTRACTOR'S EXPENSE.

1.12 ENGINEER'S DUTIES

A. REVISE THE SUBMITTALS AND RETURN WITH REASONABLE PROMPTNESS.

B. AFFIX STAMP, INDICATE APPROVAL WITH OR WITHOUT COMMENTS, REJECTION, AND THE NEED FOR RE-SUBMITTAL.

C. DISTRIBUTE DOCUMENTS.

Table with columns: SPEC. NO., DESCRIPTION, S, D, M, R, C, L, T, S, W, E, S, A, C, A, D, C, S, Q, R, O, M, E, I, P, B. Rows include 01568 EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION, 01660 CONSTRUCTION PRODUCTS, etc.

SUBMITTAL SCHEDULE

- SD - SHOP DRAWING
SAM - SAMPLE
CTR - CERTIFIED TEST REPORT
CLS - CERTIFICATION OF LOCAL FIELD SERVICE
EW - EXTENDED WARRANTY
ESA - EXTENDED SERVICE AGREEMENT
PPB - PROCESS PERFORMANCE BOND
CAD - CERTIFICATE OF ADEQUACY OF DESIGN
CSQ - CERTIFICATION OF APPLICATOR/ SUBCONTRACTOR QUALIFICATIONS
RD - RECORD DATA
OM - OPERATION AND MAINTENANCE MANUALS
EIR - EQUIPMENT INSTALLATION REPORT

PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK AND RELATED DOCUMENTS

A. FURNISH ALL WORK AND MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES REQUIRED AND INCIDENTAL THERETO, AS SHOWN ON DRAWINGS AND/OR SPECIFIED HEREIN INCLUDING BUT NOT LIMITED TO: THE FURNISH AND INSTALLATION OF SPECIFIED PRODUCTS.

B. RELATED WORK SPECIFIED ELSEWHERE:
1. SUBMITTAL PROCEDURES: SECTION 013300
2. CLOSEOUT PROCEDURES: SECTION 017700

C. WHENEVER POSSIBLE THE MINIMUM ACCEPTABLE QUALITY OF WORKMANSHIP AND MATERIALS HAS BEEN DEFINED BY THE MANUFACTURER'S NAME AND CATALOG NUMBER, REFERENCE TO INDUSTRY OR GOVERNMENTAL STANDARDS, OR DESCRIPTION OF REQUIRED ATTRIBUTES AND PERFORMANCE.

1.2 DEFINITIONS

A. PRODUCTS: ITEMS PURCHASED FOR INCORPORATING INTO THE WORK, WHETHER PURCHASED FOR PROJECT OR TAKEN FROM PREVIOUSLY PURCHASED STOCK, THE TERM "PRODUCT" INCLUDES THE TERMS "MATERIAL," "EQUIPMENT," "SYSTEM," AND TERMS OF SIMILAR INTENT.

1. NAMED PRODUCTS: ITEMS IDENTIFIED BY MANUFACTURER'S PRODUCT NAME, INCLUDING MAKE OR MODEL NUMBER OR OTHER DESIGNATION SHOWN OR LISTED IN MANUFACTURER'S PUBLISHED PRODUCT LITERATURE THAT IS CURRENT AS OF DATE OF THE CONTRACT DOCUMENTS.

2. COORDINATE PRODUCT LIST WITH CONTRACTOR'S CONSTRUCTION SCHEDULE AND THE SUBMITTALS SCHEDULE.

3. FORM: TABULATE INFORMATION FOR EACH PRODUCT UNDER THE FOLLOWING COLUMN HEADINGS:
A. GENERIC NAME USED IN THE CONTRACT DOCUMENTS.
B. PROPRIETARY NAME, MODEL NUMBER, AND SIMILAR DESIGNATIONS.
C. MANUFACTURER'S NAME AND ADDRESS.
D. SUPPLIER'S NAME AND ADDRESS.
E. INSTALLER'S NAME AND ADDRESS.
F. PROJECTED DELIVERY DATE OR TIME SPAN OF DELIVERY PERIOD.
G. IDENTIFICATION OF ITEMS THAT REQUIRE EARLY SUBMITTAL APPROVAL FOR SCHEDULED DELIVERY DATE.

4. OWNER'S ACTION: OWNER WILL RESPOND IN WRITING TO CONTRACTOR WITHIN TEN WORKING DAYS OF RECEIPT OF COMPLETED PRODUCT LIST, OWNER'S RESPONSE WILL INCLUDE A LIST OF UNACCEPTABLE PRODUCT SELECTIONS AND A BRIEF EXPLANATION OF REASONS FOR THIS ACTION, OWNER'S RESPONSE, OR LACK OF RESPONSE, DOES NOT CONSTITUTE A WAIVER OF REQUIREMENT TO COMPLY WITH THE CONTRACT DOCUMENTS.

1.3 SUBMITTAL LIST

A. PRODUCT LIST: SUBMIT A LIST IN TABULAR FORM, SHOWING SPECIFIED PRODUCTS, INCLUDE GENERIC NAMES OF PRODUCTS REQUIRED, INCLUDE MANUFACTURER'S NAME AND PROPRIETARY PRODUCT NAMES FOR EACH PRODUCT.

1. COORDINATE PRODUCT LIST WITH CONTRACTOR'S CONSTRUCTION SCHEDULE AND THE SUBMITTALS SCHEDULE.

2. FORM: TABULATE INFORMATION FOR EACH PRODUCT UNDER THE FOLLOWING COLUMN HEADINGS:
A. GENERIC NAME USED IN THE CONTRACT DOCUMENTS.
B. PROPRIETARY NAME, MODEL NUMBER, AND SIMILAR DESIGNATIONS.
C. MANUFACTURER'S NAME AND ADDRESS.
D. SUPPLIER'S NAME AND ADDRESS.
E. INSTALLER'S NAME AND ADDRESS.
F. PROJECTED DELIVERY DATE OR TIME SPAN OF DELIVERY PERIOD.
G. IDENTIFICATION OF ITEMS THAT REQUIRE EARLY SUBMITTAL APPROVAL FOR SCHEDULED DELIVERY DATE.

3. OWNER'S ACTION: OWNER WILL RESPOND IN WRITING TO CONTRACTOR WITHIN TEN WORKING DAYS OF RECEIPT OF COMPLETED PRODUCT LIST, OWNER'S RESPONSE WILL INCLUDE A LIST OF UNACCEPTABLE PRODUCT SELECTIONS AND A BRIEF EXPLANATION OF REASONS FOR THIS ACTION, OWNER'S RESPONSE, OR LACK OF RESPONSE, DOES NOT CONSTITUTE A WAIVER OF REQUIREMENT TO COMPLY WITH THE CONTRACT DOCUMENTS.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

A. DELIVER, STORE AND HANDLE PRODUCTS USING MEANS AND METHODS THAT WILL PREVENT DAMAGE, DETERIORATION, AND LOSS, INCLUDING THEFT, COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

B. DELIVERY AND HANDLING:
1. SCHEDULE DELIVERY TO MINIMIZE LONG-TERM STORAGE AT PROJECT SITE AND TO PREVENT OVERCROWDING OF CONSTRUCTION SPACES.
2. COORDINATE DELIVERY WITH INSTALLATION TIME TO ENSURE MINIMUM HOLDING TIME FOR ITEMS THAT ARE FLAMMABLE, HAZARDOUS, EASILY DAMAGED, OR SENSITIVE TO DETERIORATION, THEFT, AND OTHER LOSSES.
3. DELIVER PRODUCTS TO PROJECT SITE IN AN UNDAMAGED CONDITION IN MANUFACTURER'S ORIGINAL SEALED CONTAINER OR OTHER PACKAGING SYSTEM, COMPLETE WITH INTACT AND LEGIBLE LABELS AND INSTRUCTIONS FOR HANDLING, STORING, UNPACKING, PROTECTING, AND INSTALLING.

C. STORAGE:
1. STORE PRODUCTS TO ALLOW FOR INSPECTION AND MEASUREMENT OF QUANTITY OR COUNTING OF UNITS.
2. STORE MATERIALS IN A MANNER THAT WILL NOT ENDANGER PROJECT STRUCTURE.
3. STORE PRODUCTS THAT ARE SUBJECT TO DAMAGE BY THE ELEMENTS, UNDER COVER IN A WEATHERTIGHT ENCLOSURE ABOVE GROUND, WITH VENTILATION ADEQUATE TO PREVENT CONDENSATION.
4. STORE CEMENTITIOUS PRODUCTS AND MATERIALS ON ELEVATED PLATFORMS.
5. STORE FOAM PLASTIC FROM EXPOSURE TO SUNLIGHT, EXCEPT TO EXTENT NECESSARY FOR PERIOD OF INSTALLATION AND CONCEALMENT.
6. COMPLY WITH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR TEMPERATURE, HUMIDITY, VENTILATION, AND WEATHER-PROTECTION REQUIREMENTS FOR STORAGE.
7. PROTECT STORED PRODUCTS FROM DAMAGE AND LIQUIDS FROM FREEZING.

1.5 PRODUCT WARRANTIES

A. WARRANTIES SPECIFIED IN OTHER SECTIONS SHALL BE IN ADDITION TO, AND RUN CONCURRENT WITH, OTHER WARRANTIES REQUIRED BY THE CONTRACT DOCUMENTS. MANUFACTURER'S DISCLAIMERS AND LIMITATIONS ON PRODUCT WARRANTIES DO NOT RELIEVE CONTRACTOR OF OBLIGATIONS UNDER REQUIREMENTS OF THE CONTRACT DOCUMENTS.

1. MANUFACTURER'S WARRANTY: PREPRINTED WRITTEN WARRANTY PUBLISHED BY INDIVIDUAL MANUFACTURER FOR A PARTICULAR PRODUCT AND SPECIFICALLY ENDORSED BY MANUFACTURER TO OWNER.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION PROCEDURES

A. GENERAL PRODUCT REQUIREMENTS: PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, THAT ARE UNDAMAGED AND, UNLESS OTHERWISE INDICATED, THAT ARE NEW AT TIME OF INSTALLATION.

- 1. PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.
2. STANDARD PRODUCTS: IF AVAILABLE, AND UNLESS CUSTOM PRODUCTS OR NONSTANDARD OPTIONS ARE SPECIFIED, PROVIDE STANDARD PRODUCTS OF TYPES THAT HAVE BEEN PRODUCED AND USED SUCCESSFULLY IN SIMILAR SITUATIONS ON OTHER PROJECTS.

CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 DESCRIPTION OF WORK AND RELATED DOCUMENTS

A. FURNISH ALL WORK AND MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES REQUIRED AND INCIDENTAL THERETO, AS SHOWN ON DRAWINGS AND/OR SPECIFIED HEREIN INCLUDING BUT NOT LIMITED TO: THE SUBMITTAL OF CLOSEOUT DOCUMENTS, FINAL CLEANING OF MATERIALS AND EQUIPMENT AND FURNISHING PERMIT CLEARANCES, GUARANTEES AND WARRANTIES.

B. RELATED WORK SPECIFIED ELSEWHERE:
1. SUBMITTAL PROCEDURES: SECTION 013300

C. THE COMPLETION OF THE CLOSEOUT PROCEDURES INDICATED IN THESE SPECIFICATIONS WILL BE A CONDITION FOR RELEASING FINAL PAYMENT.

1.2 PROJECT CLEAN-UP

A. PROVIDE ALL REQUIRED PERSONNEL, EQUIPMENT AND MATERIALS NEEDED TO MAINTAIN THE SPECIFIED STANDARD OF CLEANLINESS. USE ONLY MATERIALS AND EQUIPMENT WHICH ARE COMPATIBLE WITH THE SURFACE BEING CLEANED AS RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL, OR AS APPROVED BY THE ENGINEER/ARCHITECT.

B. FINAL CLEANING SHALL MEAN A LEVEL OF CLEANLINESS GENERALLY PROVIDED BY SKILLED CLEANERS USING COMMERCIAL QUALITY, SITE MAINTENANCE EQUIPMENT AND MATERIALS.

C. THE CONTRACTOR SHALL SCHEDULE A FINAL CLEANING AS APPROVED BY THE ENGINEER/ARCHITECT.

1.3 OPERATION AND MAINTENANCE MANUAL

A. THE CONTRACTOR SHALL OBTAIN FROM THE VARIOUS SUBCONTRACTORS VARIOUS OPERATION AND MAINTENANCE DATA, REPLACEMENT PARTS LISTS, MAINTENANCE SCHEDULE REQUIREMENTS, ETC., AND BIND THE INFORMATION INTO A REFERENCE MANUAL. TWO SETS SHALL BE TURNED OVER TO THE ENGINEER/ARCHITECT PRIOR TO REQUEST FOR FINAL PAYMENT.

B. OPERATION AND MAINTENANCE MANUALS SHALL BE NEATLY BOUND WITH EACH TRADE SO INDEXED. IN SOME CASES, APPROVED SHOP DRAWINGS AND SUBMITTALS MAY SUFFICE FOR USE IN THIS REGARD. EQUIPMENT PARTS LISTS FOR REPLACEMENT PURPOSES SHALL BE INCLUDED WHEREVER POSSIBLE.

1.4 ONSITE TRAINING

A. THE CONTRACTOR SHALL PROVIDE A DEMONSTRATION OF THE OPERATION TECHNIQUES AND METHODS OF THE MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. THIS DEMONSTRATION MUST BE COORDINATED WITH THE ENGINEER/ARCHITECT, THE OPERATION AND MAINTENANCE MANUALS MUST BE AVAILABLE FOR USE DURING THIS TRAINING PERIOD.

B. THE CONTRACTOR SHALL PROPOSE A TIME IN WRITING TO THE ENGINEER/ARCHITECT ALLOWING AT LEAST SEVENTY-TWO (72) HOURS NOTICE.

AS BUILT DRAWINGS

A. FINAL "AS BUILT" DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR IN AN AUTO CAD 2015 OR BETTER FORMAT. THESE DRAWINGS SHALL INDICATE ALL CHANGES OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS. THESE DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER/ARCHITECT ON A CD. THE DRAWINGS MUST CLEARLY STATE AS BUILT AND BE NEATLY ORGANIZED.

GUARANTEES AND WARRANTIES

A. THE CONTRACTOR SHALL PROVIDE A LETTER OF GUARANTEE, SEE GENERAL CONDITIONS SEC. 40

B. THE CONTRACTOR SHALL PROVIDE FINAL CLEARANCES FROM ALL PERMITTING AGENCIES.

FINAL COMPLETION

A. THE CONTRACTOR SHALL SUPPLY A WRITTEN REQUEST FOR A FINAL COMPLETION INSPECTION. THIS REQUEST SHALL INCLUDE THE FOLLOWING:

- 1. CERTIFICATION THAT THE WORK AND ACTIONS SPECIFIED IN THE CONTRACT DOCUMENTS HAS BEEN COMPLETED AND THAT THE OWNER HAS FULL USE OF THE SITE.
2. ALL EQUIPMENT HAS BEEN TESTED AND BALANCED AND IS FULLY FUNCTIONAL.
3. THE ONSITE TRAINING PROGRAM HAS BEEN COMPLETED AND THERE ARE NO OUTSTANDING ISSUES RESULTING FROM SAID PROGRAM.
4. A COPY OF THE LIST OF DEFICIENCIES GENERATED BY THE SUBSTANTIAL COMPLETION INSPECTION, WITH EACH ITEM INITIALED AND SHOWING DATE COMPLETED.
5. A LIST OF ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS WITH NAME, ADDRESS AND PHONE NUMBER, INCLUDE SOURCE FOR PARTS REPLACEMENT AND LOCAL REPRESENTATIVE IF DIFFERENT.
6. SUBMIT ALL TEST/ADJUST/BALANCE RECORDS AND START-UP PERFORMANCE REPORTS.
7. SUBMIT ALL TOOLS, KEYS AND ANY SPECIAL DEVICES TO ASSURE COMPLETE OPERATION BY THE OWNER.
8. FINAL APPLICATION FOR PAYMENT.
9. WAIVERS, SWORN STATEMENTS AND AFFIDAVITS OF PAYMENTS TO SUBCONTRACTORS AND SUPPLIERS.

Table with 2 columns: TBM #1, TBM #2. Rows include SET SQUARE CUT: SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS, etc.

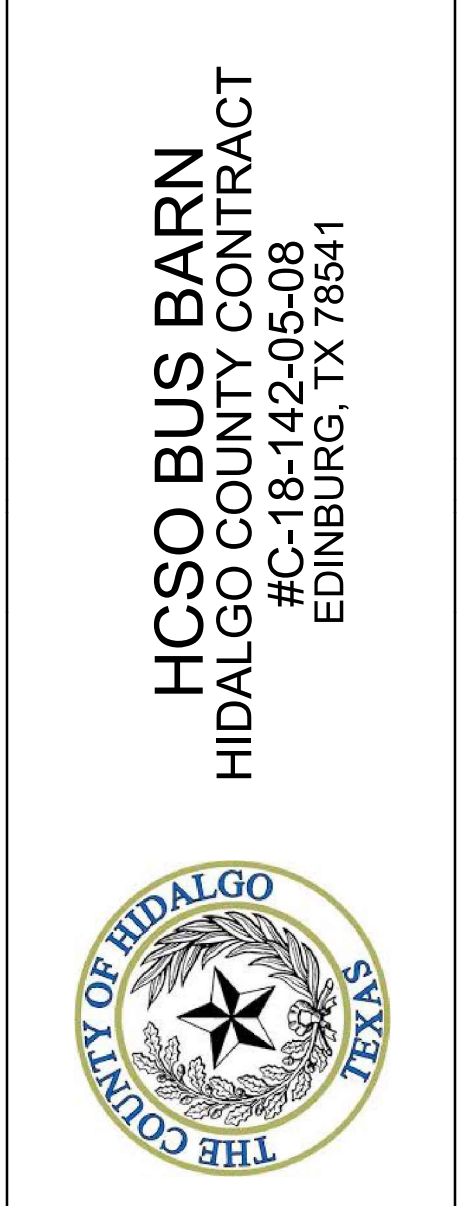


Table with 2 columns: Revision No., Description. Multiple empty rows for revisions.



Table with 2 columns: Project No., Issued, Drawn By, Checked By, Scale. Values include 34015-004, JANUARY 21, 2020, FC, RGJ, AS NOTED.

Sheet Title: TECHNICAL SPECIFICATION C1.01 Sheet Number

SITE CLEARING

1.1 SUMMARY
A. SECTION INCLUDES:
1. PROTECTING EXISTING VEGETATION TO REMAIN.
2. REMOVING EXISTING VEGETATION.
3. CLEARING AND GRUBBING.
4. STRIPPING AND STOCKPIILING TOPSOIL.
5. REMOVING ABOVE- AND BELOW-GRADE SITE IMPROVEMENTS.
6. DISCONNECTING, CAPPING, OR SEALING SITE UTILITIES.
7. TEMPORARY EROSION AND SEDIMENTATION CONTROL.
1.2 PREINSTALLATION MEETINGS
A. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT.
1.3 MATERIAL OWNERSHIP
A. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR OTHERWISE REMAIN OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM PROJECT SITE.
1.4 FIELD CONDITIONS
A. TRAFFIC: MINIMIZE INTERFERENCE WITH ADJOINING ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES DURING SITE-CLEARING OPERATIONS.
1. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION.
2. PROVIDE ALTERNATE ROUTES AROUND "CLOSED" OR OBSTRUCTED TRAFFICWAYS IF REQUIRED BY OWNER OR AUTHORITIES HAVING JURISDICTION.
B. SALVAGEABLE IMPROVEMENTS: CAREFULLY REMOVE ITEMS INDICATED TO BE SALVAGED AND STORE ON OWNER'S PREMISES.
C. UTILITY LOCATOR SERVICE: NOTIFY UTILITY LOCATOR SERVICE FOR AREA WHERE PROJECT IS LOCATED BEFORE SITE CLEARING.
D. DO NOT COMMENCE SITE CLEARING OPERATIONS UNTIL TEMPORARY EROSION- AND SEDIMENTATION-CONTROL AND PLANT-PROTECTION MEASURES ARE IN PLACE.
E. TREE- AND PLANT-PROTECTION ZONES: PROTECT ACCORDING TO REQUIREMENTS IN SECTION 015639 "TEMPORARY TREE AND PLANT PROTECTION."

1.6 TOPSOIL STRIPPING
A. REMOVE SOD AND GRASS BEFORE STRIPPING TOPSOIL.
B. STRIP TOPSOIL TO DEP OF 6 INCHES (150 MM) IN A MANNER TO PREVENT INTERMINGLING WITH UNDERLYING SUBSOIL OR OTHER WASTE MATERIALS.
C. STOCKPILE TOPSOIL AWAY FROM EDGE OF EXCAVATIONS WITHOUT INTERMINGLING WITH SUBSOIL OR OTHER MATERIALS. GRADE AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST AND EROSION BY WATER.
1.7 SITE IMPROVEMENTS
A. REMOVE EXISTING ABOVE- AND BELOW-GRADE IMPROVEMENTS AS INDICATED AND NECESSARY TO FACILITATE NEW CONSTRUCTION.
1.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS
A. REMOVE SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, OBSTRUCTIONS, DEMOLISHED MATERIALS, AND WASTE MATERIALS INCLUDING TRASH AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.
B. SEPARATE RECYCLABLE MATERIALS PRODUCED DURING SITE CLEARING FROM OTHER NONRECYCLABLE MATERIALS, STORE OR STOCKPILE WITHOUT INTERMINGLING WITH OTHER MATERIALS, AND TRANSPORT THEM TO RECYCLING FACILITIES. DO NOT INTERFERE WITH OTHER PROJECT WORK.

CLEARING AND GRUBBING

PART 1- GENERAL
1.1 GENERAL DESCRIPTION OF WORK
A. CLEANING AND GRUBBING ON PROJECT SITE OF TREES, STUMPS, BRUSH, ROOTS, VEGETATION, LOGS, RUBBISH AND OTHER OBJECTIONABLE MATTER WITHIN LIMITS DESCRIBED IN SPECIFICATIONS OR AS SHOWN ON PLANS.
B. CLEANING AND GRUBBING SHALL BE IN ADVANCE OF GRADING OPERATION EXCEPT THAT IN CUTS OVER 3 FEET IN DEPTH, GRUBBING MAY BE DONE SIMULTANEOUSLY WITH EXCAVATION, PROVIDED OBJECTIONABLE MATTER IS REMOVED AS SPECIFIED.
C. DISPOSE OF ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING WORK.
1.2 PROTECTION OF ADJACENT WORK:
A. PROTECT ALL AREAS OUTSIDE INDICATED CONSTRUCTION AREAS.
B. PROTECT EXISTING IMPROVEMENTS, ADJACENT PROPERTY, UTILITIES AND OTHER FACILITIES, AND TREES AND PLANTS NOT TO BE REMOVED FROM INJURY OR DAMAGE.
PART 2- PRODUCTS
2.1 MATERIALS:
A. PROVIDE MATERIALS REQUIRED TO PERFORM WORK AS SPECIFIED.
PART 3- EXECUTION
3.1 CLEARING:
A. CLEAR ALL AREAS COVERED BY DIKES, ROADS, STRUCTURES AND EMBANKMENTS WITHIN PROJECT LIMITS UNLESS OTHERWISE SHOWN IN PLANS.
B. REMOVE ALL SAPLINGS, BRUSH, DOWN-TIMBER AND DEBRIS UNLESS SHOWN OR DIRECTED OTHERWISE.
C. USE TREE WOUND PAINT TO TREAT SCARS, GASHES OR LIMBS STUBS ON TREES NOT REMOVED.
3.2 GRUBBING:
A. TREES, STUMPS, ROOT SYSTEMS, ROCKS AND OTHER OBSTRUCTIONS SHALL BE REMOVED TO THE DEPTHS SHOWN WHEN THEY FALL WITHIN THE CONSTRUCTION TEMPLATES FOR THE FOLLOWING ITEMS:
1. FOOTINGS 18-INCHES BELOW BOTTOM OF FOOTING.
2. SIDEWALKS (OR OTHER TYPES OF WALKS) 12-INCHES BELOW BOTTOM OF WALK.
3. ROADWAYS OR STREETS 18-INCHES BELOW BOTTOM OF SUBGRADE
4. PARKING AREAS 18-INCHES BELOW BOTTOM OF SUBGRADE
5. GRASSED AREAS 18-INCHES BELOW TOP SOIL
6. FILLS 24-INCHES BELOW BOTTOM OF FILL
B. BLASTING NOT PERMITTED.
3.3 REMOVAL OF DEBRIS AND CLEANUP
A. BURNING IS NOT PERMITTED.
B. DISPOSE OF ALL WASTE MATERIALS NOT BURNED BY REMOVAL FROM SITE.
C. MATERIALS CLEARED AND GRUBBED SHALL BE THE PROPERTY OF THE CONTRACTOR AND SHALL BE HIS RESPONSIBILITY FOR DISPOSAL.

EXCAVATION, BACKFILL AND GRADING FOR SITE WORK OUTSIDE OF BUILDING

PART 1- GENERAL
1.1 SECTION INCLUDES:
A. GRADING AND EARTHWORK WHICH OCCURS IN AREAS OTHER THAN UNDER STRUCTURES, UNDER PAVING, OR TRENCHING FOR UTILITIES.
B. EARTHWORK CONSISTS OF OPERATIONS REQUIRED FOR THE EXCAVATION OF MATERIALS ON SITE; EXCAVATION OF BORROW MATERIAL FROM DESIGNATED AREAS; COMPACTION OF NATURAL OR IMPROVED SUB-GRADES; FINISH GRADING; DISPOSAL OF EXCESS OR UNSUITABLE MATERIALS; AND OTHER REQUIRED OPERATIONS. EARTHWORK SHALL CONFORM WITH DIMENSIONS AND TYPICAL SECTIONS SHOWN, AND WITHIN LINES AND GRADES ESTABLISHED ON DRAWINGS.
1.2 RELATED SECTIONS:
A. TRENCH EXCAVATION, BACKFILL AND COMPACTION- SECTION 312200.
1.3 REFERENCES:
A. ASTM D698 - LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT (12,400 LBF/FT).
B. ASTM D4972 - PH OF SOIL.
C. ASTM G57 - FIELD MEASUREMENT OF SOIL RESISTIVITY USING THE WENNER FOUR ELECTRODE METHOD.
D. ASTM D4318 - LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS.
1.4 EXISTING UTILITIES:
WHERE PIPES, DUCTS AND STRUCTURES ARE ENCOUNTERED IN THE EXCAVATION BUT ARE NOT SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER.
1.5 DEFINITIONS:
A. CLASSIFICATION: EARTHWORK MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH DEFINITIONS IN THIS ARTICLE.
B. TOPSOIL: TOP 6 INCHES OF NATURAL SURFACE SOIL POSSESSING THE CHARACTERISTICS OF REPRESENTATIVE SOILS ON THE SITE THAT PRODUCE GROWTHS OF GRASS OR OTHER VEGETATION. TOPSOIL INCLUDES ROOTS AND OTHER VEGETATION.
C. GENERAL SITE FILL: SUITABLE, CLEAN MATERIAL EXCAVATED ON-SITE OR OFF-SITE MAY BE USED AS FILL MATERIAL. SUITABLE MATERIAL SHALL CONSIST OF CLAY SOILS CLASSIFIED AS CH ACCORDING TO THE UNIFIED SOIL CLASSIFICATION SYSTEM, CLAY SOIL USED AS FILL SHALL HAVE A LIQUID LIMIT OF LESS THAN 55 AND A PLASTICITY INDEX COMPARABLE WITH ON-SITE SOILS.
D. SELECT FILL: SELECT FILL MATERIAL AS REQUIRED FOR CONSTRUCTION, DEFINED IN THE GEOTECHNICAL REPORT, SHALL CONSIST OF INORGANIC SILTY OR SANDY CLAY.
E. SUBGRADE: CONSISTS OF THAT PORTION OF THE SURFACE ON WHICH A COMPACTED FILL, BACKFILL OR TOPSOIL IS PLACED.
F. BORROW: MATERIAL TAKEN FROM ON-SITE DESIGNATED AREAS OR APPROVED OFF-SITE SOURCES TO MAKE UP ANY DEFICIT OF EXCAVATED MATERIAL. OBTAIN FROM AREA THAT IS NORMALLY DRY AND WELL DRAINED. BORROW DOES NOT INCLUDE TOP SOIL.
G. FINISH GRADING: OPERATIONS REQUIRED FOR SMOOTHING DISTURBED AREAS THAT ARE NOT OVERLAD WITH PAVEMENT.
H. EXCAVATION: EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT TO THE LINES AND GRADES INDICATED ON THE DRAWINGS.
I. COMPACTION: COMPACTION OF SOIL MATERIALS SHALL BE MEASURED AS A PERCENT OF STANDARD PROCTOR DENSITY AS DETERMINED BY THE ASTM D698.
PART 2- PRODUCTS
2.1 SELECT FILL:
A. SOURCE: OBTAIN SELECT FILL MATERIAL FROM REQUIRED EXCAVATION, OR IF EXCAVATED MATERIAL IS NOT ADEQUATE, FROM BORROW AREAS APPROVED BY THE GEOTECHNICAL ENGINEER. MATERIAL FROM SOURCE SHALL BE TESTED FOR COMPLIANCE WITH PROJECT REQUIREMENTS AND APPROVED BY THE OWNER AND TESTING LABORATORY.
B. SUITABILITY: USE THE BEST MATERIAL AVAILABLE FROM EXCAVATION OR BORROW, SUITABILITY OF SELECT FILL IS SUBJECT TO THE ENGINEER'S APPROVAL.
C. QUALITY: SELECT FILL MATERIAL MUST BE FREE OF ROCK AND CLAY LUMPS OR EXCESSIVE SILTS. DO NOT USE SOIL CONTAINING BRUSH, ROOTS, SOD OR SIMILAR ORGANIC MATERIALS.

A. CHARACTERISTICS: SELECT FILL MATERIAL SHALL CONSIST OF INORGANIC SILTY OR SANDY CLAY. ADDITIONAL SELECT FILL REQUIREMENTS ARE DESCRIBED IN GEOTECHNICAL REPORT.
2.2 FILL AND BACKFILL UNDER TOPSOIL:
A. SOURCE: OBTAIN SITE FILL FROM REQUIRED EXCAVATION OR, IF EXCAVATED MATERIAL IS NOT SUFFICIENT, FROM BORROW AREAS APPROVED BY THE ENGINEER.
B. SUITABILITY: USE THE BEST MATERIAL AVAILABLE FROM EXCAVATION OR BORROW. SUITABILITY OF FILL MATERIAL IS SUBJECT TO THE TESTING LABORATORY/ENGINEER'S APPROVAL.
C. QUALITY: FILL MATERIAL SHALL BE FREE OF EXCESSIVE SILTS. DO NOT USE SOIL CONTAINING BRUSH, ROOTS, SOD OR SIMILAR ORGANIC MATERIALS.
D. CHARACTERISTICS: FILL MATERIAL SHALL HAVE A PLASTICITY INDEX BETWEEN 6 AND 25, INCLUSIVE, AND SHALL GENERALLY BE OF SIMILAR CHARACTER TO THAT OF EXISTING SOIL AT THE SITE.

PART 3- EXECUTION

3.1 STRIP AND STOCKPILE:
A. REMOVE TOPSOIL AT ALL NON-PAVED AREAS WHERE EXCAVATION OF TOPSOIL IS REQUIRED OR WHERE FILL MATERIAL WILL BE ADDED FOR SITE GRADING. REMOVE TOP 6 INCHES OF TOPSOIL WHERE NECESSARY AND STOCKPILE ON THE PROPERTY AS DIRECTED BY THE OWNER. PROTECT STOCKPILED TOPSOIL FROM OTHER EXCAVATED MATERIALS. DUMPING OF UNWANTED MATERIAL, DUMPING BY THE PUBLIC, AND EROSION, UPON COMPLETION OF ROUGH GRADING, REPLACE TOPSOIL IN 4-INCH MINIMUM LAYER TO FINISH GRADE ELEVATIONS AS SHOWN ON THE GRADING PLAN.
3.2 EXCAVATION:
A.OBJECTIVE: AS SHOWN ON THE DRAWINGS, EXCAVATE TO LINES, GRADES AND ELEVATIONS REQUIRED FOR SUBSEQUENT CONSTRUCTION. ALL EXCAVATION SHALL BE MADE IN SUCH MANNER AS TO PERMIT ALL SURFACES TO BE BROUGHT TO FINAL LINE AND GRADE WITHIN PLUS OR MINUS 0.1 FOOT. OVER EXCAVATION SHALL BE RESTORED BY THE CONTRACTOR AT HIS OWN EXPENSE. FINISHED GRADES CONSISTENTLY HIGH OR LOW WILL NOT BE ACCEPTABLE AND SHALL BE CORRECTED BY THE CONTRACTOR AT HIS EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
B.DRAINAGE: DURING EXCAVATION, MAINTAIN GRADES AS REQUIRED TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES OR AS DIRECTED BY THE ENGINEER. INSTALL TEMPORARY DRAINS OR DRAINAGE DITCHES TO INTERCEPT OR DIVERT SURFACE WATER AND PREVENT INTERFERENCE OR DELAY OF THE WORK.
C.STOCKPILING: IF AT TIME OF EXCAVATION IT IS NOT POSSIBLE TO PLACE MATERIAL IN THE PROPER SECTION OF PERMANENT CONSTRUCTION, STOCKPILE THE MATERIAL IN OWNER OR ARCHITECT APPROVED AREAS FOR LATER USE.
D.STONE OR ROCK: STONE OR ROCK FRAGMENTS GREATER THAN 6" WILL NOT BE ALLOWED IN FILL OR EMBANKMENTS. STONES OR ROCK FRAGMENTS LARGER THAN 2 INCHES IN THEIR GREATEST DIMENSION WILL NOT BE PERMITTED IN TOP 6 INCHES OF SUBGRADE.
E.DRESSING: UNIFORMLY DRESS CUT AND FILL SLOPES TO SLOPE, CROSS SECTION AND ALIGNMENT, AS SHOWN.
3.3 TREATMENT OF SUBGRADES:
A. ALL TOPSOIL AND VEGETATION SHALL BE STRIPPED FROM THE GROUND SURFACE AND STOCKPILED, EXPOSING SOUND UNDISTURBED SUBGRADE SOILS.
B. AFTER STRIPPING THE TOPSOIL IN AREAS TO RECEIVE FILL OR CUT AREAS, THE EXPOSED GROUND SURFACE SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES. THE MOISTURE ADJUSTED, AND THEN RECOMPACT TO A DENSITY OF 95 TO MIN. PERCENT OF THE MAXIMUM DENSITY OBTAINED IN THE STANDARD PROCTOR COMPACTION TEST (ASTM D698), AT A MOISTURE CONTENT BETWEEN MINUS 1 TO PLUS 3 PERCENT OF OPTIMUM. ANY SOFT OR COMPRESSIBLE AREAS DETECTED DURING THE RECOMPACTION PROCESS SHALL BE UNDERCUT SUCH THAT SOUND SUBGRADE SOILS ARE EXPOSED AND RECOMPACTED. SITE EXCAVATED OR SELECT FILL SHALL THEN BE USED TO BRING ALL AREAS TO GRADE. ALLOW FOR PLACEMENT OF MINIMUM 4-INCH LAYER OF TOP SOIL IN AREAS NOT COVERED BY BUILDING OR PAVEMENT.
C. FINISHED SUBGRADE SHALL BE INSPECTED BY TESTING LABORATORY FOR DETERMINATION THAT SUBGRADE MEETS REQUIREMENTS OF CONTRACT DOCUMENTS.
3.4 PLACING FILL AND BACKFILL:
A. EXAMINATION OF SUBGRADE: DO NOT PLACE FILL ON ANY PART OF THE SUBGRADE UNTIL THE SUBGRADE PREPARATION HAS BEEN ACCEPTED BY THE ENGINEER.
B. REMOVING DEBRIS: DURING THE DUMPING AND SPREADING PROCESS, REMOVE ALL ROOTS, STONES AND DEBRIS THAT ARE UNCOVERED IN THE FILL MATERIAL.
C. SPREADING FILL AND BACKFILL: AFTER DUMPING, SPREAD THE MATERIAL IN HORIZONTAL LAYERS OVER THE ENTIRE FILL AREA. THE THICKNESS OF EACH LAYER BEFORE COMPACTION SHALL NOT EXCEED 18 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION. THE COMBINED EXCAVATION AND FILL PLACING OPERATION SHALL BE SUCH THAT THE MATERIAL WHEN COMPACTED IN THE FILL WILL BE BLENDED SUFFICIENTLY TO SECURE THE BEST PRACTICABLE DEGREE OF COMPACTION. THE SUITABILITY OF THE MATERIALS SHALL BE SUBJECT TO TESTING BY THE TESTING LABORATORY AND APPROVAL OF THE ENGINEER. AFTER EACH LAYER OF FILL HAS BEEN SPREAD TO THE PROPER DEPTH, IT SHALL BE THOROUGHLY MANIPULATED WITH A ROLLING DRUM OR OTHER SUITABLE AND APPROVED EQUIPMENT UNTIL THE MATERIAL IS UNIFORMLY MIXED, PULVERIZED AND BROUGHT TO A UNIFORM APPROVED MOISTURE CONTENT.
D. ATTAINING PROPER BOND: IF, IN THE OPINION OF THE TESTING LABORATORY, THE COMPACTED SURFACE OF A LAYER IS TOO SMOOTH TO BOND WITH SUCCEEDING LAYERS, LOOSEN THE SURFACE BY HARROWING OR OTHER APPROVED METHOD BEFORE CONTINUING THE WORK.
E. PLACE MATERIALS TO PROPER ELEVATION ALLOWING FOR DEPTH OF TOPSOIL FURNISHED UNDER THIS CONTRACT.
3.5 MOISTURE CONTROL:
INTENT: DEVELOPING THE MAXIMUM DENSITY OBTAINABLE WITH THE NATURAL MOISTURE OF THE MATERIAL IS PREFERRED. HOWEVER, THE MOISTURE CONTENT SHOULD BE THE OPTIMUM, AS DETERMINED BY ASTM D698, BY MORE THAN MINUS 1 TO PLUS 3 PERCENT OF OPTIMUM.
ADJUSTMENT: IF THE MOISTURE CONTENT IS TOO HIGH, ADJUST TO WITHIN THE SPECIFIED LIMITS BY SPREADING THE MATERIAL AND PERMITTING IT TO DRY. ASSIST THE DRYING PROCESS BY DISCING OR HARROWING IF NECESSARY. WHEN THE MATERIAL IS TOO DRY, SPRINKLE EACH LAYER WITH WATER. WORK THE MOISTURE INTO THE SOIL BY HARROWING OR OTHER ENGINEER APPROVED METHOD.
3.6 COMPACTION:
A. ROUGH GRADE: COMPACT EACH LAYER OF FILL MATERIAL WITH SUITABLE EQUIPMENT AS NECESSARY TO SECURE 95% TO 98% STANDARD PROCTOR DENSITY (ASTM D698) WITHIN THE SPECIFIED RANGE OF THE MOISTURE CONTENT.
B. FINISH GRADE: PLACE AND LIGHTLY COMPACT TOPSOIL TO ACHIEVE FINISH GRADES.
3.7 DISTRIBUTION OF TOPSOIL:
A. PERFORM ROUGH GRADING AND TOPSOIL/FINISH GRADING WORK.
B. PREPARATION:
A.PRIOR TO PLACING TOPSOIL, SCARIFY THE SUBGRADE TO A DEPTH OF 2 INCHES TO PROVIDE EFFECTIVE BONDING OF THE TOPSOIL WITH THE SUBGRADE.
B. SHAPE THE AREA FOR GRADING, INCLUDING CUT AND FILL AREAS, TO RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL.
C.PLACEMENT:
1. DO NOT HAUL OR PLACE WET TOPSOIL. ALSO PROHIBITED IS PLACEMENT OF TOPSOIL ON A SUBGRADE THAT IS EXCESSIVELY WET, EXTREMELY DRY OR IN A CONDITION OTHERWISE DETRIMENTAL TO PROPER GRADING OR PROPOSED PLANTING.
2. DISTRIBUTE TOPSOIL UNIFORMLY AND SPREAD EVENLY. CORRECT IRREGULARITIES IN THE SURFACE TO PREVENT FORMATION OF DEPRESSIONS WHERE WATER COULD STAND.
3. PERFORM THE SPREADING OPERATION SO THAT PLANTING CAN PROCEED WITH LITTLE ADDITIONAL TILLAGE OR SOIL PREPARATION. LEAVE THE AREA SMOOTH AND SUITABLE FOR LAWN PLANTING.
4. LIGHTLY COMPACT TOPSOIL TO OBTAIN PROPER BOND WITH PREVIOUSLY PLACED OR PREPARED MATERIAL.
D.MAINTENANCE: WHERE ANY PORTION OF THE SURFACE BECOMES ERODED OR OTHERWISE DAMAGED, REPAIR THE AFFECTED AREA TO ESTABLISH THE CONDITION AND GRADE PRIOR TO TOPSOIL PLACEMENT; THEN REPLACE TOPSOIL.
3.8 MATERIAL DISPOSAL:
A. EXCESS EXCAVATION MATERIAL (SOIL MATERIAL FREE OF TREES, STUMPS, LOGS, BRUSH, ROOTS, RUBBISH AND OTHER OBJECTIONABLE MATTER WHICH HAS BEEN ACCEPTED BY THE GEOTECHNICAL ENGINEER); REMOVE EXCESS EXCAVATED MATERIAL FROM THE CONSTRUCTION SITE OR PLACE ON THE PROPERTY AS DIRECTED BY THE ENGINEER.
B. WASTE MATERIAL (SOIL MATERIAL INCLUDING TREES, STUMPS, LOGS, BRUSH, ROOTS, RUBBISH AND OTHER OBJECTIONABLE MATTER WHICH HAS NOT BEEN ACCEPTED BY THE GEOTECHNICAL ENGINEER); REMOVE WASTE MATERIAL FROM THE PROJECT SITE BEFORE FINAL INSPECTION, LEGALLY DISPOSE OF MATERIAL AT A LICENSED SITE OR WITH WRITTEN AND NOTARIZED PERMISSION FROM THE PROPERTY OWNER FOR A PRIVATE DISPOSAL SITE. ALL COSTS ASSOCIATED WITH WASTE MATERIAL REMOVAL AND DISPOSAL SHALL BE PAID FOR BY THE CONTRACTOR.

PART 4- TESTING
4.1 PROCEDURE
A. THE TESTING LABORATORY WILL MAKE TESTS OF IN-PLACE DENSITY IN ACCORDANCE WITH ASTM STANDARDS. BACKFILL OPERATIONS WILL BE MONITORED CONTINUOUSLY BY THE TESTING LABORATORY AT STRUCTURES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE TESTING LABORATORY BEFORE BACKFILL OPERATIONS BEGIN.
GROUND WATER HANDLING
PART 1-GENERAL
1.1 SECTION INCLUDES
A. DEWATERING, DEPRESSURIZING, DRAINING, AND MAINTAINING TRENCHES, SHAFT EXCAVATIONS, STRUCTURAL EXCAVATIONS, AND FOUNDATION BEDS IN A STABLE CONDITION, AND CONTROLLING GROUND WATER CONDITIONS FOR TUNNEL EXCAVATIONS.
B. PROTECTING WORK AGAINST SURFACE RUNOFF AND RISING FLOOD WATERS.
C. DISPOSING OF REMOVED WATER.
1.2 REFERENCES
A. FEDERAL REGULATIONS, 29 CFR PART 1926, STANDARDS-EXCAVATION, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
B. FEDERAL REGISTER 40 CFR (VOL. 53, NO. 222) PART 122, EPA ADMINISTRATOR PERMIT PROGRAMS (NPDES), PARA 122.26 (B)(14) STORM WATER DISCHARGE.
1.3 DEFINITIONS
A. GROUND WATER CONTROL INCLUDES BOTH DEWATERING AND DEPRESSURIZATION OF WATER-BEARING SOIL LAYERS USING WELL POINTS, FOR EITHER VACUUM OR EDUCATOR SYSTEMS OR DEEP WELLS. USE OF SUMP PUMPS DOES NOT CONSTITUTE GROUND WATER CONTROL.
1. DEWATERING IS LOWERING THE WATER TABLE AND INTERCEPTING SEEPAGE WHICH WOULD OTHERWISE EMERGE FROM SLOPES OR BOTTOMS OF EXCAVATIONS OR INTO TUNNELS AND SHAFTS, AND DISPOSING OF REMOVED WATER.
2. DEPRESSURIZATION IS REDUCTION OF PIEZOMETRIC PRESSURE WITHIN A SOIL STRATA NOT CONTROLLED BY DEWATERING ALONE.
B. CONTROL OF EXCAVATION DRAINAGE BY SUMP PUMPING INCLUDES OPERATING THE SUMP PUMP AND DRAINAGE FACILITIES INSTALLED TO COLLECT WATER IN THE SUMP.
C. CONTROL OF SURFACE DRAINAGE IS DIVERSION OF SURFACE WATER AWAY FROM EXCAVATIONS.
1.4 PERFORMANCE REQUIREMENTS
A. CONDUCT SUBSURFACE INVESTIGATIONS AS NEEDED TO IDENTIFY GROUND WATER CONDITIONS AND TO PROVIDE PARAMETERS FOR INSTALLATION AND OPERATION OF GROUND WATER CONTROL SYSTEMS. PERFORM PUMP TESTS, IF NECESSARY, TO DETERMINE DRAWDOWN CHARACTERISTICS OF WATER BEARING LAYERS.
B. DEVELOP A GROUND WATER CONTROL SYSTEM, COMPATIBLE WITH REQUIREMENTS OF FEDERAL REGULATIONS 29 CFR PART 1926, TO PRODUCE THE FOLLOWING RESULTS:
1. REDUCE HYDROSTATIC PRESSURE AFFECTING EXCAVATIONS TO THE FOLLOWING LEVELS AS DETERMINED BY PIEZOMETER OBSERVATIONS.
A. FOR STRUCTURAL EXCAVATIONS, REDUCE THE PIEZOMETRIC LEVEL TO AT LEAST 3 FEET BELOW THE EXCAVATION BOTTOM ELEVATION OR WITHIN 2 FEET ABOVE THE TOP OF CLAY LAYERS.
B. WHERE HYDROSTATIC PRESSURE IN A CONFINED WATER-BEARING LAYER EXIST BELOW THE EXCAVATION, DEPRESSURIZE THIS ZONE TO ELIMINATE RISK OF UPLIFT OR OTHER INSTABILITY OF THE EXCAVATION OR INSTALLED WORKS.
2. DEVELOP STABLE SUBGRADE FOR SUBSEQUENT CONSTRUCTION OPERATIONS.
3. REDUCE HYDROSTATIC PRESSURE FOR TUNNEL EXCAVATIONS AS NECESSARY TO MAINTAIN FACE STABILITY, GRADE CONTROL, AND TO CONTROL SEEPAGE INTO TUNNEL.
C. PROVIDE DRAINAGE OF SEEPAGE WATER AND SURFACE WATER, AS WELL AS WATER FROM ANY OTHER SOURCE ENTERING THE EXCAVATION. EXCAVATION DRAINAGE MAY INCLUDE PLACEMENT OF DRAINAGE MATERIALS SUCH AS CRUSHED STONE AND FILTER FABRIC, TOGETHER WITH SUMP PUMPING.
A. LOCATE GROUND WATER CONTROL AND DRAINAGE SYSTEMS SO AS NOT TO INTERFERE WITH UTILITIES, CONSTRUCTION OPERATIONS, ADJACENT PROPERTIES, OR ADJACENT WATER WELLS.
B. MODIFY GROUND WATER CONTROL SYSTEMS OR OPERATIONS IF THEY CAUSE OR THREATEN TO CAUSE DAMAGE TO NEW CONSTRUCTION, EXISTING SITE IMPROVEMENTS, ADJACENT PROPERTY, OR ADJACENT WATER WELLS, IF THEY AFFECT POTENTIALLY CONTAMINATED AREAS.

EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION

PART 1-GENERAL
1.1 WORK INCLUDED
A. FURNISH LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF THE CONSTRUCTION PERIOD INCLUDING FURNISHING, INSTALLING AND MAINTAINING EROSION AND SEDIMENT CONTROL STRUCTURES AND PROCEDURES AND THE PROPER REMOVAL WHEN NO LONGER REQUIRED.
B. THE INTENT OF THIS SPECIFICATION IS TO PROVIDE GUIDELINES FOR THE CONTRACTOR TO ADOPT TO ALL STATE, FEDERAL, AND LOCAL ENVIRONMENTAL REGULATIONS. IT IS ALSO THE INTENT TO PROVIDE PREVENTIVE MEASURES TO KEEP SEDIMENT FROM ENTERING ANY STORM WATER SYSTEM, INCLUDING OPEN CHANNELS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO ALL STATE, FEDERAL AND LOCAL REQUIREMENTS WHILE THE OWNER MAY REQUIRE THE CONTRACTOR TO INSTALL EROSION CONTROL DEVICES DURING CONSTRUCTION, THIS WILL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY.
1.2 QUALITY ASSURANCE
A. COMPLY WITH APPLICABLE REQUIREMENTS OF ALL GOVERNING AUTHORITIES HAVING JURISDICTION. THE SPECIFICATIONS AND THE PLANS ARE NOT REPRESENTED AS BEING COMPREHENSIVE, BUT RATHER TO CONVEY THE INTENT TO PROVIDE COMPLETE SLOPE PROTECTION AND EROSION CONTROL FOR BOTH THE OWNER'S AND ADJACENT PROPERTY.
B. EROSION CONTROL MEASURES SHALL BE ESTABLISHED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED DURING THE ENTIRE LENGTH OF CONSTRUCTION. ON-SITE AREAS WHICH ARE SUBJECT TO SEVERE EROSION AND OFF-SITE AREAS WHICH ARE ESPECIALLY VULNERABLE TO DAMAGE FROM EROSION AND/OR SEDIMENTATION ARE TO BE IDENTIFIED AND RECEIVE ADDITIONAL EROSION CONTROL MEASURES AS DIRECTED BY THE OWNER OR THE ENGINEER.
C. ALL LAND-DISTURBING ACTIVITIES SHALL BE PLANNED AND CONDUCTED TO MINIMIZE THE SIZE OF THE AREA TO BE EXPOSED AT ANY ONE TIME AND TO MINIMIZE THE TIME OF EXPOSURE.
D. SURFACE WATER RUNOFF ORIGINATING UPGRADE OF EXPOSED AREA SHALL BE CONTROLLED TO REDUCE EROSION AND SEDIMENT LOSS DURING THE PERIOD OF EXPOSURE.
E. WHEN THE INCREASE IN THE PEAK RATES AND VELOCITY OF STORM WATER RUNOFF RESULTING FROM LAND-DISTURBING ACTIVITY IS SUFFICIENT TO CAUSE ACCELERATED EROSION OF THE RECEIVING DITCH OR STREAM, THE CONTRACTOR SHALL INSTALL MEASURES TO CONTROL BOTH THE VELOCITY AND RATE OF RELEASE SO AS TO MINIMIZE ACCELERATED EROSION AND INCREASED SEDIMENTATION OF THE STREAM AS DIRECTED BY THE OWNER OR THE ENGINEER.
F. ALL LAND-DISTURBING ACTIVITIES SHALL BE PLANNED AND CONDUCTED SO AS TO MINIMIZE OFF-SITE SEDIMENTATION DAMAGE.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODICALLY CLEANING OUT AND DISPOSING OF ALL SEDIMENT ONCE THE STORAGE CAPACITY OF THE DRAINAGE FEATURE OR STRUCTURE RECEIVING THE SEDIMENT IS REDUCED BY ONE-HALF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR CLEANING OUT AND DISPOSING OF ALL SEDIMENT AT THE TIME OF COMPLETION OF THE WORK.

Table with 2 columns: TBM #1, TBM #2. TBM #1: SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS. ELEVATION = 88.12(INAVD88) N=16677478.25 E=1106560.91 (NA83) TBM #2: SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS. ELEVATION = 87.38(INAVD88) N=16677357.72 E=1106485.55 (NA83)

Project No.: 34015-004
Issued: JANUARY 21, 2020
Drawn By: FC
Checked By: RGJ
Scale: AS NOTED
Sheet Title: TECHNICAL SPECIFICATION
C1.02
Sheet Number

1.3 SUBMITTALS

- A. SUBMITTALS SHALL BE IN ACCORDANCE WITH SECTION 013300, SUBMITTALS, AND SHALL INCLUDE:
1. MANUFACTURER'S LITERATURE: DESCRIPTIVE DATA OF INSTALLATION METHODS AND PROCEDURES.
2. CERTIFICATES: MANUFACTURER'S CERTIFICATION THAT MATERIALS MEET SPECIFICATION REQUIREMENTS.

1.4 JOB CONDITIONS; CODES AND ORDINANCES

- A. COMPLY WITH THE LOCAL CODES AND ORDINANCES. IF LOCAL CODES AND ORDINANCES REQUIRE MORE STRINGENT OR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION, CONTRACTOR SHALL PROVIDE SUCH MEASURES.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. STRAW BALES: STRAW BALES SHALL WEIGH A MINIMUM OF FIFTY (50) POUNDS AND SHALL BE AT LEAST 30" IN LENGTH. BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER AND BE FREE OF SEEDS, BINDING SHALL BE EITHER WIRE OR NYLON STRING. JUTE OR COTTON BINDING IS UNACCEPTABLE. BALES SHALL BE USED FOR NOT MORE THAN THREE MONTHS BEFORE BEING REPLACED. HOWEVER, IF WEATHER CONDITIONS CAUSE BIOLOGICAL DEGRADATION OF THE STRAW BALES, THEY SHALL BE REPLACED SOONER THAN THE THREE MONTH TIME PERIOD TO PREVENT A LOSS OF STRUCTURAL INTEGRITY OF THE DIKE.
B. SILT FENCE: SILT FENCE FABRIC SHALL BE A NYLON REINFORCED POLYPROPYLENE FABRIC WHICH HAS A BUILT-IN CORD RUNNING THE ENTIRE LENGTH OF THE TOP EDGE OF THE FABRIC. THE FABRIC MUST MEET THE FOLLOWING MINIMUM CRITERIA:
TENSILE STRENGTH, ASTM D4632 90 LBS.
PUNCTURE RATING, ASTM D4633 60 D4633
MULLEN BURST RATING, ASTM D53786 200 PSI
APPARENT OPENING SIZE, U.S. SIEVE NO. 40
SILT FENCE SHALL BE "ENVIRO FENCE" PREASSEMBLED SILT FENCE, AMXCO SILT STOP PREFABRICATED SILT FENCE, AMOCO STYLE 2155 PREASSEMBLED SILT FENCE OR APPROVED EQUAL.
C. SILT FENCE POSTS: A MINIMUM 2" X 2" (NOMINAL) X 54" PRESSURE TREATED WOOD POSTS OF NUMBER 2 GRADE SOUTHERN YELLOW PINE OR APPROVED EQUAL.
D. SAND BAG: SAND BAG MATERIAL SHALL BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC. MINIMUM UNIT WEIGHT FOUR (4) OUNCES PER SQUARE YARD, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70%. LENGTH SHALL BE 24 TO 30 INCHES, WIDTH SHALL BE 16 TO 18 INCHES AND THICKNESS SHALL BE SIX (6) TO EIGHT (8) INCHES AND HAVING AN APPROXIMATE WEIGHT OF 40 POUNDS. SAND BAGS SHALL BE FILLED WITH COARSE GRADE SAND, FREE FROM DELETERIOUS MATERIAL. ALL SAND SHALL PASS THROUGH A NO. 10 SIEVE.
E. P.V.C. PIPE: PIPE SHALL BE SDR-35 POLYVINYL CHLORIDE HAVING A MINIMUM NOMINAL INTERNAL DIAMETER OF 4". PIPES SHALL BE SIZED FOR ANTICIPATED FLOWS.
F. SOIL RETENTION BLANKET: SOIL RETENTION BLANKETS SHALL CONSIST OF A GEOCOMPOSITE OF EXCELSIOR OR FIBER BLANKET WITH AN EXTRUDED PLASTIC NET ATTACHED TO THE TOP SIDE. THE PLASTIC NET SHALL BE PHOTODEGRADABLE AND THE EXCELSIOR OR FIBER BLANKET SHALL BE MADE SMOLDER RESISTANT WITHOUT THE USE OF CHEMICALS. SOIL RETENTION BLANKETS SHALL BE HIGH VELOCITY TYPE TO RESIST SEVERE RUNOFF. THE SOIL RETENTION BLANKET SHALL BE ONE (1) OF THE FOLLOWING CLASSES AND TYPES:
1. CLASS 1 "SLOPE PROTECTION"
(A) TYPE A. SLOPES OF 3:1 OR FLATTER - CLAY SOILS
(B) TYPE B. SLOPES OF 3:1 OR FLATTER - SANDY SOILS
(C) TYPE C. SLOPES STEEPER THAN 3:1 - CLAY SOILS
(D) TYPE D. SLOPES STEEPER THAN 3:1 - SANDY SOILS
2. CLASS 2 "FLEXIBLE CHANNEL LINER"
(A) TYPE E. SHORT-TERM DURATION (UP TO 2 YEARS)
SHEAR STRESS (Tc) < 1.0 LB./SQ. FT.
(B) TYPE F. SHORT-TERM DURATION (UP TO 2 YEARS)
SHEAR STRESS (Tc) 1.0 TO 2.0 LB./SQ. FT.
(C) TYPE G. LONG-TERM DURATION (LONGER THAN 2 YEARS)
SHEAR STRESS (Tc) > 2.0 TO < 5.0 LB./SQ. FT.
(D) TYPE H. LONG-TERM DURATION (LONGER THAN 2 YEARS)
SHEAR STRESS (Tc) GREATER THAN OR EQUAL TO 5.0 LB./SQ. FT.

THE CONTRACTOR HAS THE OPTION OF SELECTING AN APPROVED SOIL RETENTION BLANKET PROVIDED THAT SELECTION CONFORMS TO THE FOLLOWING LIST OF APPROVED SOIL RETENTION BLANKETS FOR SLOPE PROTECTION APPLICATIONS:

CLASS I: SLOPE PROTECTION

TYPE A: SLOPES OF 3:1 OR FLATTER-CLAY SOILS

- AIRTROL® ANTI-WASH®/GEOJUTE® (REGULAR)
CONTECH STANDARDS®
CONTECH STANDARDS PLUS®
GREEN TRIANGLE SUPERIOR®
GREEN TRIANGLE SUPERIOR®
GREENSTREAK® PEC-MAT
CURLX®
NORTH AMERICAN GREEN® S150
NORTH AMERICAN GREEN® S75
NORTH AMERICAN GREEN® SC150
POLYJUTE® 407/GT
SOIL SAVER®
TERRAJUTE®
VERDYOLD ERO-MAT®
XCEL REGULAR®
XCEL SUPERIOR®

TYPE B: SLOPES OF 3:1 OR FLATTER-SANDY SOILS

- CONTECH STANDARDS®
CONTECH STANDARDS PLUS®
GEOCOIR®/DEKOWE® 700
GREEN TRIANGLE SUPERIOR®
GREEN TRIANGLE SUPERIOR®
GREEN TRIANGLE REGULAR®
NORTH AMERICAN GREEN® S75
NORTH AMERICAN GREEN® SC150
NORTH AMERICAN GREEN® S150
POLYJUTE® 407/GT
TERRAJUTE®
VERDYOLD ERO-MAT®
XCEL SUPERIOR®
XCEL REGULAR®

TYPE C: SLOPES STEEPER THAN 3:1-CLAY SOILS

- AIRTROL®
ANTI-WASH®/GEOJUTE® (REGULAR)
CONTECH STANDARDS PLUS®
CURLX®
GREEN TRIANGLE SUPERIOR®
GREENSTREAK® PEC-MAT
NORTH AMERICAN GREEN® SC150
NORTH AMERICAN GREEN® S150
POLYJUTE® 407/GT
SOIL SAVER®
TERRAJUTE®
XCEL SUPERIOR®

TYPE D: SLOPES STEEPER THAN 3:1-SANDY SOILS

- CONTECH STANDARDS PLUS®
GEOCOIR®/DEKOWE® 700
GREEN TRIANGLE SUPERIOR®
NORTH AMERICAN GREEN® S150
NORTH AMERICAN GREEN® SC150
POLYJUTE® 407/GT
TERRAJUTE®
XCEL SUPERIOR®

CLASS II: FLEXIBLE CHANNEL LINER PROTECTION

PART 3 - EXECUTION

3.1 INSTALLATION

A. TEMPORARY STRAW BALE DIKE

- 1. STRAW BALES SHALL BE EMBEDDED A MINIMUM OF 4" AND SECURELY ANCHORED USING 2" X 2" WOOD STAKES DRIVEN THROUGH THE BALES INTO THE GROUND A MINIMUM OF 6". STRAW BALES ARE TO BE PLACED DIRECTLY ADJACENT TO ONE ANOTHER LEAVING NO GAP BETWEEN THEM.
2. BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE ON PROPOSED LINE, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. IN SWALES AND DITCHES, THE BARRIER SHALL EXTEND TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE. ADDITIONAL BALES SHALL BE PLACED BEHIND THE FIRST ROW WHERE THE BALES ABUT EACH OTHER. THE ADDITIONAL BALE IS USED TO PREVENT RUNOFF FROM ESCAPING BETWEEN THE BALES.
3. THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. BACKFILL SHALL CONFORM TO GROUND LEVEL ON THE DOWNHILL SIDE AND SHALL BE BUILT UP TO 4" ABOVE GROUND LEVEL ON THE UPHILL SIDE. LOOSE STRAW SHALL BE SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A STRAW BARRIER.

B. SILT FENCE

THE PURPOSE OF A SILT FENCE IS TO INTERCEPT AND DETAIN WATER-BORNE SEDIMENT FROM UNPROTECTED AREAS TO A LIMITED EXTENT. THE CONTRACTOR SHALL EXCAVATE A 6" BY 6" TRENCH FOR SITE FENCE BEHIND ALONG THE LOWER PERIMETERS OF THE SITE WHERE NECESSARY TO PREVENT SEDIMENT FROM ENTERING ANY DRAINAGE SYSTEM. THE CONTRACTOR SHALL INSTALL THE SILT FENCE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR DRAINAGE WAY. WHERE SOIL CONDITIONS PREVENT A MINIMUM TOE-IN DEPTH OF 6" OR INSTALLATION OF SUPPORT POSTS TO DEPTH OF 12", FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3" AND SHALL BE JOINTED SUCH THAT NO LEAKAGE OR BYPASS OCCURS. IF CONCENTRATED FLOW OCCURS AFTER INSTALLATION, CORRECTIVE ACTION MUST BE TAKEN SUCH AS PLACING ROCK BERM IN THE AREAS OF CONCENTRATED FLOW.

C. SAND BAG BERM

- 1. THE PURPOSE OF A SANDBAG BERM IS TO INTERCEPT SEDIMENT-LADEN WATER FROM DISTURBED AREAS SUCH AS CONSTRUCTION IN STEAM BEDS, CREATE A RETENTION POND, DETAIN SEDIMENT AND RELEASE WATER IN SHEET FLOW.
2. A TEMPORARY SAND BAG BERM SHALL BE INSTALLED ACROSS A CHANNEL OR RIGHT OF WAY IN A DEVELOPING OR DISTURBED AREA AND SHOULD BE USED WHEN THE CONTRIBUTING DRAINAGE AREA IS GREATER THAN 5 ACRES. THE BERM SHALL BE A MINIMUM HEIGHT OF 18", MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPSLOPE TOE TO THE TOP OF THE BERM. THE BERM SHALL BE SIZED TO HAVE A MINIMUM WIDTH OF 48" MEASURED AT THE BOTTOM OF THE BERM AND 18" MEASURED AT THE TOP OF THE BERM.
3. THE SAND BAG BERM SHALL BE INSPECTED AFTER EACH RAIN. THE SAND BAGS SHALL BE REPAIRED OR REPLACED AS NEEDED DURING INSPECTION. ADDITIONAL INSPECTIONS SHALL BE MADE DAILY BY THE RESPONSIBLE PARTY AND WHEN THE SILT REACHES 6", THE ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION. THE SAND BAG BERM SHALL BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED; REMOVAL MUST BE DONE BY HAND.

D. SOIL RETENTION BLANKETS

- 1. A SOIL RETENTION BLANKET (SRB) IS A GEOTEXTILE OR BIODEGRADABLE FABRIC PLACED OVER DISTURBED AREAS TO LIMIT THE EFFECTS OF EROSION DUE TO RAINFALL IMPACT AND RUNOFF ACROSS BARREN SOIL. SOIL RETENTION BLANKETS ARE MANUFACTURED BY A WIDE VARIETY OF VENDORS ADDRESSING A WIDE VARIETY OF CONDITIONS SUCH AS VEGETATION ESTABLISHMENT AND HIGH VELOCITY FLOW. BLANKETS ARE USED IN AREAS WHICH ARE DIFFICULT TO STABILIZE SUCH AS STEEP SLOPES, DRAINAGE SWALES OR HIGH PEDESTRIAN TRAFFIC AREAS.
2. THE SOIL RETENTION BLANKET, WHETHER INSTALLED AS SLOPE PROTECTION OR AS FLEXIBLE CHANNEL LINER, SHALL BE PLACED WITHIN 24 HOURS AFTER SEEDING OR SODDING OPERATIONS HAVE BEEN COMPLETED, OR AS APPROVED BY THE ENGINEER, PRIOR TO PLACING THE BLANKET. THE AREA TO BE COVERED SHALL BE RELATIVELY FREE OF ALL ROCKS OR CLODS OVER 1-1/2" IN MAXIMUM DIMENSION AND ALL STICKS OR OTHER FOREIGN MATERIAL WHICH WILL PREVENT THE CLOSE CONTACT OF THE BLANKET WITH THE SOIL. THE AREA SHALL BE SMOOTH AND FREE OF RUTS AND OTHER DEPRESSIONS. IF AS A RESULT OF RAIN, THE PREPARED BED BECOMES CRUSTED OR ERODED OR IF ANY ERODED PLACES, RUTS OR DEPRESSIONS EXIST FOR ANY REASON, THE CONTRACTOR SHALL BE REQUIRED TO REWORK THE SOIL UNTIL IT IS SMOOTH AND TO RESEED OR RESOD THE AREA AT THE CONTRACTOR'S EXPENSE.
INSTALLATION AND ANCHORAGE OF THE SOIL RETENTION BLANKET SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

E. PROTECTION OF BARE AREAS

- 1. APPLY SEEDING AND SOIL RETENTION BLANKET TO BARE AREAS INCLUDING NEW EMBANKMENT AREAS, FILLS, STRIPPED AREAS, GRADED AREAS OR OTHERWISE DISTURBED AREAS, WHICH HAVE A GRADE GREATER THAN 5% OR WHICH WILL BE EXPOSED FOR MORE THAN 30 DAYS.
2. BARE WORKING AREAS ON WHICH IT IS NOT PRACTICAL OR DESIRABLE TO INSTALL SEEDING AND SOIL RETENTION BLANKETS, AS DETERMINED BY THE ENGINEER, SUCH AS AREAS UNDER PROPOSED BUILDING SLABS, SHALL BE TEMPORARILY SLOPED TO DRAIN AT A MINIMUM OF 0.2% AND A MAXIMUM OF 5% GRADE. THESE AREAS SHALL THEN BE "TRACKWALKED" WITH A CRAWLER DOZER TRAVELING UP AND DOWN THE SLOPE TO FORM THE EFFECT OF SMALL "TERRACES" WITH THE TRACKS OF THE DOZER. APPLY A MINIMUM OF THREE (3) COVERAGES TO EACH AREA WITH THE DOZER TRACKS.
3. ROUTE RUNOFF FROM THE AREAS THROUGH THE APPROPRIATE SILT FENCE SYSTEM. PROTECT EARTH SPOIL AREAS BY "TRACKWALKING" AND SILT FENCES.

F. INTERCEPTOR SWALE

- 1. INTERCEPTOR SWALES MAY HAVE A V-SHAPE OR BE TRAPEZOIDAL WITH A FLAT BOTTOM AND SIDE SLOPES OF 3:1 OR FLATTER. THESE ARE USED TO SHORTEN THE LENGTH OF EXPOSED SLOPE BY INTERCEPTING RUNOFF AND CAN ALSO SERVE AS PERIMETER SWALES PREVENTING OFF-SITE RUNOFF FROM ENTERING THE DISTURBED AREA OR PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE OR DISTURBED AREA. THE OUTFLOW FROM A SWALE MUST BE DIRECTED TO A STABILIZED OUTLET OR SEDIMENT TRAPPING DEVICE. THE SWALES SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
2. STONE STABILIZATION SHALL BE USED WHEN GRADES EXCEED 2% OR VELOCITIES EXCEED 6" PER SECOND AND SHALL CONSIST OF A LAYER OF CRUSHED STONE 3" THICK OR FLEXIBLE CHANNEL LINER SOIL RETENTION BLANKETS. STABILIZATION SHALL EXTEND ACROSS THE BOTTOM OF THE SWALE AND UP BOTH SIDES OF THE CHANNEL TO MINIMUM HEIGHT OF 3" ABOVE THE DESIGN WATER SURFACE ELEVATION BASED ON A TWO YEAR STORM.
3. INTERCEPTOR SWALE SHALL BE INSTALLED ACROSS EXPOSED SLOPES DURING CONSTRUCTION AND SHOULD INTERCEPT NO MORE THAN FIVE (5) ACRES OF RUNOFF. SWALES SHALL HAVE A MINIMUM BOTTOM WIDTH OF 2'-0" AND A MAXIMUM DEPTH OF 1'-6" WITH SIDE SLOPES OF 3:1 OR FLATTER. SWALES MUST HAVE POSITIVE DRAINAGE FOR ITS ENTIRE LENGTH TO AN OUTLET. WHEN THE SLOPE EXCEEDS 3%, OR VELOCITIES EXCEED 4" PER SECOND (REGARDLESS OF SLOPE), STONE STABILIZATION IS REQUIRED. CHECK DAMS ARE ALSO RECOMMENDED TO REDUCE VELOCITIES IN THE SWALES POSSIBLY REDUCING THE AMOUNT OF STABILIZATION NEEDED. SWALES SHOULD BE INSPECTED ON A WEEKLY BASIS DURING WET WEATHER AND REPAIRS SHOULD BE MADE PROMPTLY TO MAINTAIN A CONSISTENT CROSS SECTION.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS-SECTION AS REQUIRED TO MEET CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROVED SPOILS SITE SO THAT IT WILL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
7. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
8. THE ON-SITE LOCATION MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS IN ORDER TO UTILIZE THE MOST SUITABLE OUTLET.
9. MINIMUM COMPACTION FOR THE SWALE SHALL BE 90% STANDARD PROCTOR.

G. LOCATION OF EROSION AND SEDIMENT CONTROL STRUCTURES

- 1. LOCATE EROSION AND SEDIMENT CONTROL STRUCTURES AS REQUIRED TO PREVENT EROSION AND REMOVAL OF SEDIMENT FROM THE PROJECT SITE. SILT FENCES SHALL BE REQUIRED FOR DISTURBED AREAS AND SOIL STOCKPILES/SPOIL AREAS. EACH SILT FENCE INSTALLATION SHALL HAVE A MINIMUM NET LENGTH (EXCLUSIVE OF EMBEDMENTS INTO DIVERSION DIKES OR OTHER INEFFECTIVE AREAS) OF 25'. THE RUNOFF FROM A MAXIMUM OF ONE (1) ACRE OF DISTURBED AREA OR SOIL STOCKPILE/ SPOIL AREA SHALL BE ROUTED THROUGH ANY INDIVIDUAL SILT FENCE INSTALLATION.
2. INSTALL DIVERSION DIKES TO DIVERT RUNOFF TO THE SILT FENCE INSTALLATION.
3. INSTALL SILT TRAPS AT THE INLET (UPSTREAM) END OF THE DRAINAGE STRUCTURES, INCLUDING OPEN CHANNELS, THROUGH WHICH RUNOFF FROM DISTURBED AREAS OR SOIL STOCKPILES/SPOIL AREAS MAY DRAIN.
4. PROVIDE AN OVERALL EROSION AND SEDIMENT CONTROL SYSTEM WHICH PROTECTS DISTURBED AREAS AND SOIL STOCKPILES/SPOIL AREAS. THE SYSTEM SHALL BE MODIFIED BY THE CONTRACTOR FROM TIME TO TIME TO EFFECTIVELY CONTROL EROSION AND SEDIMENT DURING CONSTRUCTION.

3.2 MAINTENANCE

- A. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES AND PROCEDURES IN FULL WORKING ORDER AT ALL TIMES DURING CONSTRUCTION. THIS SHALL INCLUDE ANY NECESSARY REPAIR OR REPLACEMENT OF ITEMS WHICH HAVE BECOME DAMAGED OR INEFFECTIVE. REMOVE SEDIMENT ON A REGULAR BASIS WHICH ACCUMULATES IN SEDIMENT CONTROL DEVICES AND PLACE THE MATERIAL IN APPROVED EARTH SPOIL AREAS OR RETURN THE MATERIAL TO THE AREA FROM WHICH IT ERODED.
B. UPON COMPLETION OF CONSTRUCTION, PROPERLY REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES AND COMPLETE THE AREA AS INDICATED.
C. SOIL RETENTION BLANKETS WILL NOT REQUIRE REMOVAL IF INSTALLED ON A FINISHED GRADED AREA SPECIFIED TO RECEIVE SEEDING.

3.3 FIELD QUALITY CONTROL

- A. IN THE EVENT OF CONFLICT BETWEEN THE REQUIREMENTS AND STORM WATER POLLUTION CONTROL LAWS, RULES OR REGULATIONS OR OTHER FEDERAL, STATE OR LOCAL AGENCIES, THE MORE RESTRICTIVE LAWS, RULES OR REGULATIONS SHALL APPLY.

TRENCH PROTECTION SYSTEM

PART 1 - GENERAL

- 1.0 THE GENERAL CONDITIONS, SPECIAL PROVISIONS AND APPLICABLE REQUIREMENTS OF DIVISION 1 - GENERAL REQUIREMENTS ARE HEREBY MADE A PART OF THIS SECTION.

- 1.1 SCOPE: THIS SECTION COVERS EXCAVATION AND SUPPORTING SYSTEMS FOR TRENCHES NECESSARY TO PROTECT THE SAFETY OF WORKERS. THIS SPECIFICATION SHALL GOVERN FOR CONSTRUCTION OF ALL TYPES OF TRENCHES EXCEPT WHERE THE REQUIREMENTS OF THIS SECTION ARE EXPLICITLY REVISED OR SUPERSEDED BY ANOTHER SECTION. ADDITIONAL REQUIREMENTS AS SET FORTH BY FEDERAL, STATE, AND LOCAL GOVERNMENT REGULATIONS WILL BE APPLICABLE AND MUST BE FOLLOWED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, PLACEMENT, AND INSPECTION OF ALL TRENCH SAFETY SYSTEMS IN CONFORMANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS AS CONTAINED IN SUBPART P, PART 1926, TITLE 29 OF THE CODE OF FEDERAL REGULATIONS (29 CFR 1926). OTHER OSHA CONSTRUCTION STANDARDS SHALL ALSO APPLY.

- 1.2 NO BORING LOGS ARE PROVIDED IN THESE DOCUMENTS FOR SUBSURFACE CONDITIONS AT THE SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND EVALUATE SOIL CONDITIONS AT THE SITE AND DESIGN ADEQUATE TRENCH SAFETY SYSTEMS. THE CONTRACTOR WILL BE RESPONSIBLE FOR DETECTING VARYING SOIL CONDITIONS WHICH MAY BE HAZARDOUS AND TAKE APPROPRIATE ACTION. THE CONTRACTOR, AT HIS EXPENSE, SHALL BE RESPONSIBLE FOR OBTAINING ANY GEOLOGICAL DATA REQUIRED FOR HIS DESIGN OF THE TRENCH SAFETY SYSTEM.

- 1.3 APPLICABILITY: THESE SPECIFICATIONS APPLY TO ANY TRENCH EXCAVATION WHICH IS OVER FIVE (5) FEET IN DEPTH FROM THE GROUND SURFACE, OR TRENCH EXCAVATIONS THAT ARE LESS THAN FIVE (5) FEET IN DEPTH LOCATED IN AREAS WHERE UNSTABLE SOIL CONDITIONS ARE PRESENT (REF. FEDERAL SAFETY AND HEALTH REGULATIONS, PART 1926, SUBPART P, PARAGRAPH 29 CFR 1926.652, SUBPARAGRAPH (A)).

- 1.4 LIABILITY: IT IS THE CONTRACTOR'S RESPONSIBILITY THAT ALL EXCAVATION WORK AND SITE CONDITIONS ARE WITHIN THE REGULATIONS AS ESTABLISHED BY OSHA. ANY PROPERTY DAMAGE OR BODILY INJURY (INCLUDING DEATH) THAT ARISES FROM USE OF THE TRENCH SAFETY SYSTEMS, FROM THE CONTRACTOR'S NEGLIGENCE IN PERFORMANCE OF THE CONTRACT WORK, SHALL REMAIN THE SOLE RESPONSIBILITY AND LIABILITY OF THE CONTRACTOR.

- 1.5 EXISTING UNDERGROUND INSTALLATIONS: UNDERGROUND INSTALLATIONS ARE SHOWN IN APPROXIMATE LOCATIONS ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SIZE, LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES IN THE CONSTRUCTION AREA PRIOR TO COMMENCEMENT OF EXCAVATION OPERATIONS.

- 1.6 SURCHARGE LOADS: THE CONTRACTOR'S TRENCH SAFETY SYSTEM SHALL BE DESIGNED TO TAKE INTO ACCOUNT ALL SURCHARGE LOADS INCLUDING, BUT NOT LIMITED TO ADJACENT STRUCTURES, CONTRACTOR'S EQUIPMENT AND HEAVILY LOADED TRUCK TRAFFIC WHICH WILL BE ROUTED NEAR THE WORK SITE.

PART 2 - MEASUREMENT & PAYMENT

- 2.1 MEASUREMENT: TRENCH EXCAVATION PROTECTION SHALL BE MEASURED BY THE LUMP SUM FOR THE TRENCHING AND EXCAVATIONS SHOWN OR IMPLIED IN THE PLANS.

- 2.2 PAYMENT: PAYMENT FOR TRENCH EXCAVATION PROTECTION, MEASURED AS PRESCRIBED ABOVE, SHALL BE MADE AT THE UNIT PRICE BID FOR "TRENCH EXCAVATION PROTECTION".

- A. PAYMENT SHALL INCLUDE ALL COMPONENTS FOR DESIGN AND CONSTRUCTION OF THE TRENCH PROTECTION SYSTEM WHICH CAN INCLUDE, BUT NOT BE LIMITED TO SLOPING, SHEETING, TRENCH BOXES OR TRENCH SHIELDS, SHEET PILING, CRIBBING, BRACING, SHORING, DEWATERING OR DIVERSION OF WATER TO PROVIDE ADEQUATE DRAINAGE. PAYMENT SHALL ALSO INCLUDE THE ADDITIONAL EXCAVATION AND BACKFILL REQUIRED, ANY JACKING, JACK REMOVAL, AND REMOVAL OF THE TRENCH SUPPORTS AFTER COMPLETION.
B. PAYMENT OF ALL WORK PRESCRIBED UNDER THIS ITEM SHALL BE FULL COMPENSATION FOR ALL ADDITIONAL EXCAVATION AND BACKFILL; FOR FURNISHING, PLACING AND REMOVING ALL SHORING, SHEETING, OR BRACING; FOR DEWATERING OR DIVERSION OF WATER; FOR ALL JACKING AND JACK REMOVAL; AND FOR ALL OTHER LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.

FLEXIBLE BASE

PART 1 - GENERAL

1.1 DESCRIPTION

- A. CONSTRUCT A FOUNDATION COURSE COMPOSED OF FLEXIBLE BASE.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. FURNISH UNCONTAMINATED MATERIALS OF UNIFORM QUALITY THAT MEET THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. NOTIFY THE ENGINEER OF THE PROPOSED MATERIALS AT ANY TIME BEFORE COMPACTION THROUGHOUT THE DURATION OF THE PROJECT TO ASSURE SPECIFICATION COMPLIANCE. USE TEX-100-E MATERIAL DEFINITIONS.

- B. AGGREGATE, FURNISH AGGREGATE OF THE TYPE AND GRADE SHOWN ON THE PLANS AND CONFORMING TO THE REQUIREMENTS OF TABLE 1. EACH SOURCE MUCH MEET TABLE 1 REQUIREMENTS FOR LIQUID LIMIT, PLASTICITY INDEX, AND WET BALL MILL FOR THE GRADE SPECIFIED. DO NOT USE ADDITIVES SUCH AS BUT NOT LIMITED TO LIME, CEMENT OR FLY ASH TO MODIFY AGGREGATES TO MEET THE REQUIREMENTS OF TABLE 1, UNLESS SHOWN ON THE PLANS.

HCSO BUS BARN
HIDALGO COUNTY CONTRACT
#C-18-142-05-08
EDINBURG, TX 78541

HALFF
6800 WEST UNIVERSITY, SUITE 100
MCALLEN, TX 78501
(956) 664-0286

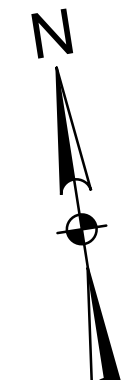
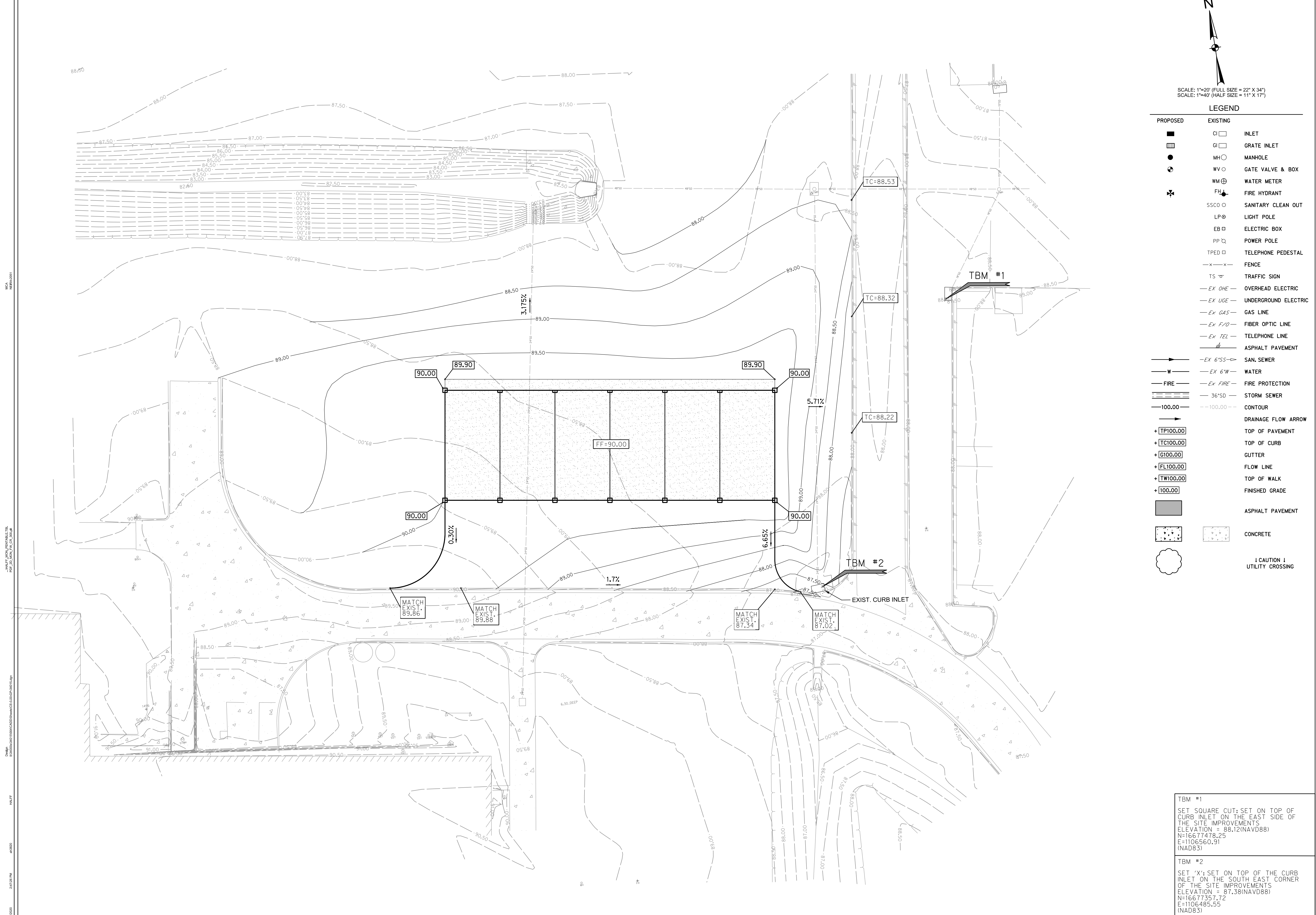
Table with 3 columns: Revision No., Date, Description

Professional Engineer Seal for Raul Garcia Jr., License No. 94855, State of Texas

Table with 2 columns: Project No., Issued, Drawn By, Checked By, Scale, Sheet Title

TECHNICAL SPECIFICATION
C1.03
Sheet Number

Vertical text on the left margin: D:\MP\...; DATE: 3/2/2014; TIME: 10:30 AM



SCALE: 1"=20' (FULL SIZE = 22" X 34")
SCALE: 1"=40' (HALF SIZE = 11" X 17")

LEGEND

PROPOSED	EXISTING	DESCRIPTION
■	□	INLET
■	□	GRATE INLET
●	○	MANHOLE
○	○	GATE VALVE & BOX
⊕	⊕	WATER METER
✱	✱	FIRE HYDRANT
○	○	SANITARY CLEAN OUT
⊙	⊙	LIGHT POLE
□	□	ELECTRIC BOX
□	□	POWER POLE
□	□	TELEPHONE PEDESTAL
-x-x-	-x-x-	FENCE
TS	TS	TRAFFIC SIGN
-EX OHE-	-EX OHE-	OVERHEAD ELECTRIC
-EX UGE-	-EX UGE-	UNDERGROUND ELECTRIC
-EX GAS-	-EX GAS-	GAS LINE
-EX F/O-	-EX F/O-	FIBER OPTIC LINE
-EX TEL-	-EX TEL-	TELEPHONE LINE
///	///	ASPHALT PAVEMENT
-EX 6"SS-	-EX 6"SS-	SAN. SEWER
-EX 6"W-	-EX 6"W-	WATER
-EX FIRE-	-EX FIRE-	FIRE PROTECTION
---	---	36"SD STORM SEWER
-100.00-	-100.00-	CONTOUR
→	→	DRAINAGE FLOW ARROW
+TP100.00		TOP OF PAVEMENT
+TC100.00		TOP OF CURB
+G100.00		GUTTER
+FL100.00		FLOW LINE
+TW100.00		TOP OF WALK
+100.00		FINISHED GRADE
■		ASPHALT PAVEMENT
■		CONCRETE
○		CAUTION 1 UTILITY CROSSING

HCSO BUS BARN
HIDALGO COUNTY CONTRACT
#C-18-142-05-08
EDINBURG, TX 78541



HALFF
600 WEST UNIVERSITY, SUITE 100
MCALLEN, TX 78501
(956) 664-0286

Revision No.	Date	Description

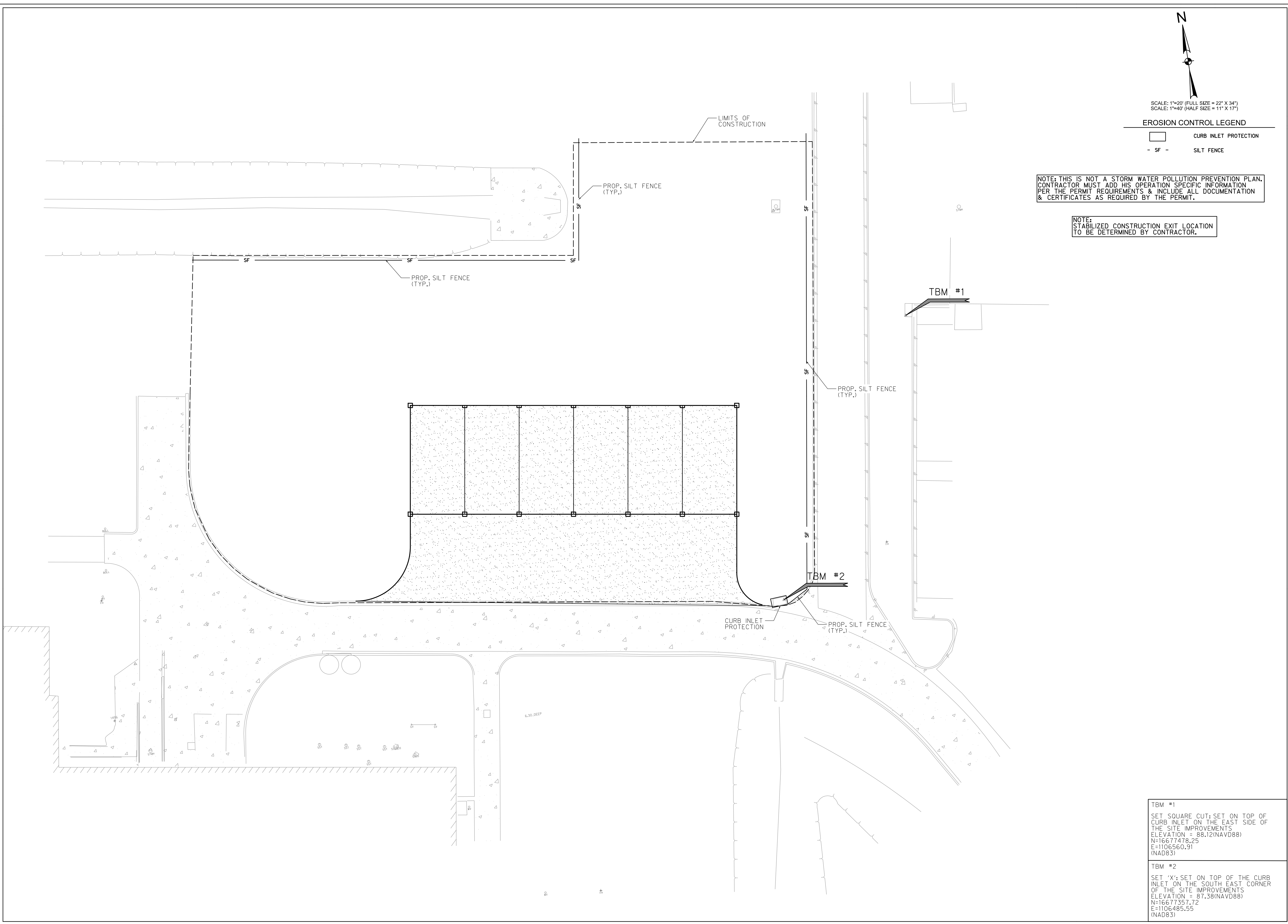


TBM #1
SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS
ELEVATION = 88.12(NAVD88)
N=16677478.25
E=1106560.91
(NAVD83)

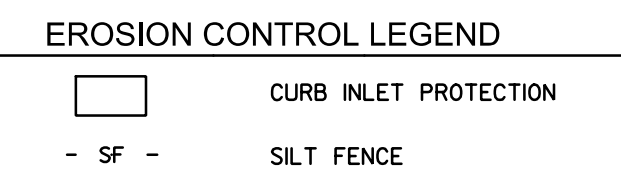
TBM #2
SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS
ELEVATION = 87.38(NAVD88)
N=16677357.72
E=1106485.55
(NAVD83)

Project No.:	34015-004
Issued:	JANUARY 21, 2020
Drawn By:	FC
Checked By:	RGJ
Scale:	AS NOTED
Sheet Title	GRADING PLAN
Sheet Number	C3.00

1/16/2020 2:07:27 PM A:\2020 A\2020 HALF D:\proj\34015\34015-004\DWG\34015-004-001-001-001.dwg



SCALE: 1"=20' (FULL SIZE = 22" X 34")
SCALE: 1"=40' (HALF SIZE = 11" X 17")



NOTE: THIS IS NOT A STORM WATER POLLUTION PREVENTION PLAN. CONTRACTOR MUST ADD HIS OPERATION SPECIFIC INFORMATION PER THE PERMIT REQUIREMENTS & INCLUDE ALL DOCUMENTATION & CERTIFICATES AS REQUIRED BY THE PERMIT.

NOTE: STABILIZED CONSTRUCTION EXIT LOCATION TO BE DETERMINED BY CONTRACTOR.

TBM #1
SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS
ELEVATION = 88.12(NAVD88)
N=16677478.25
E=1106560.91
(NA83)

TBM #2
SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS
ELEVATION = 87.38(NAVD88)
N=16677357.72
E=1106485.55
(NA83)

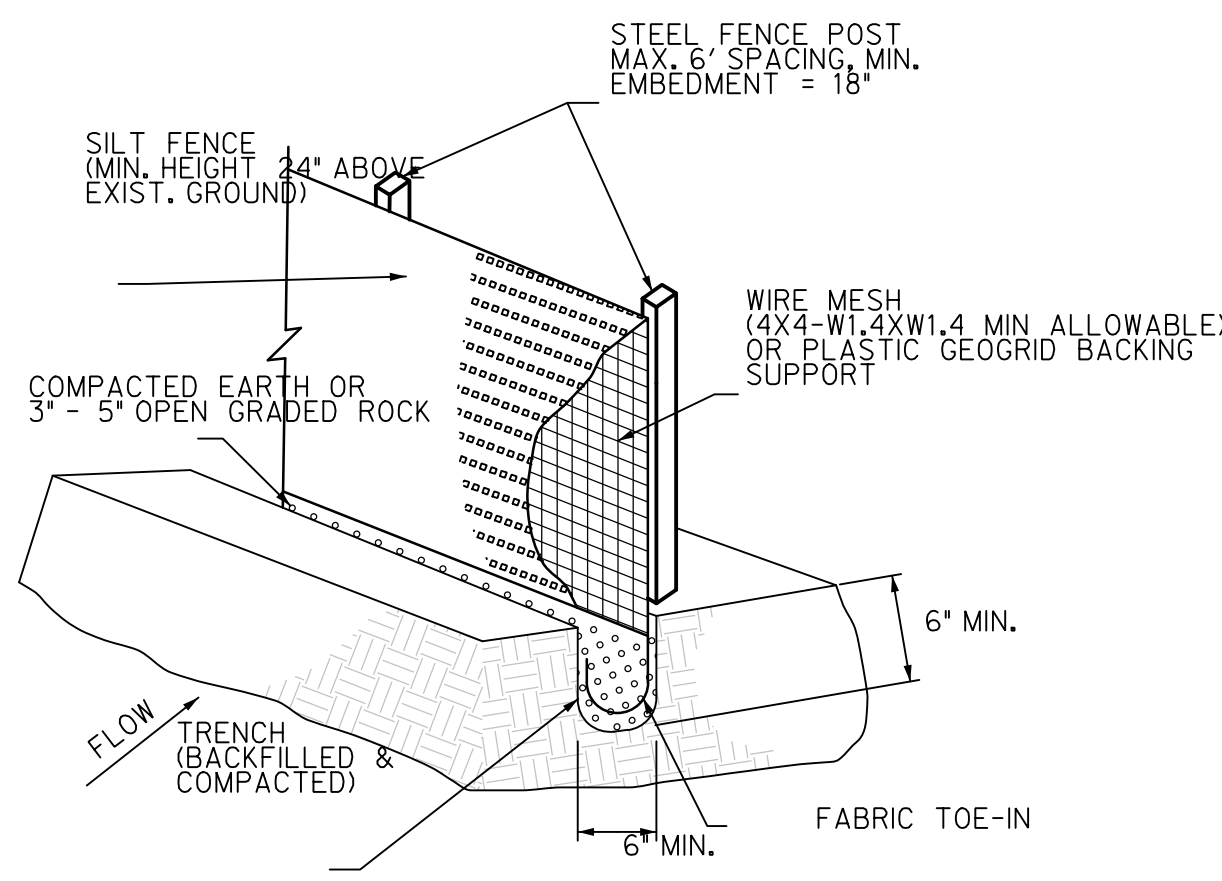
HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541

6500 WEBB UNIVERSITY, SUITE 100
 McALLEN, TX 78503
 (956) 664-0286

Revision No.	Date	Description

Project No.:	34015-004
Issued:	JANUARY 21, 2020
Drawn By:	FC
Checked By:	RGJ
Scale:	AS NOTED
Sheet Title	SUGGESTED EROSION CONTROL PLAN
Sheet Number	C4.00

Project No.:	34015-004
Issued:	JANUARY 21, 2020
Drawn By:	FC
Checked By:	RGJ
Scale:	AS NOTED
Sheet Title	SUGGESTED EROSION CONTROL PLAN
Sheet Number	C4.00



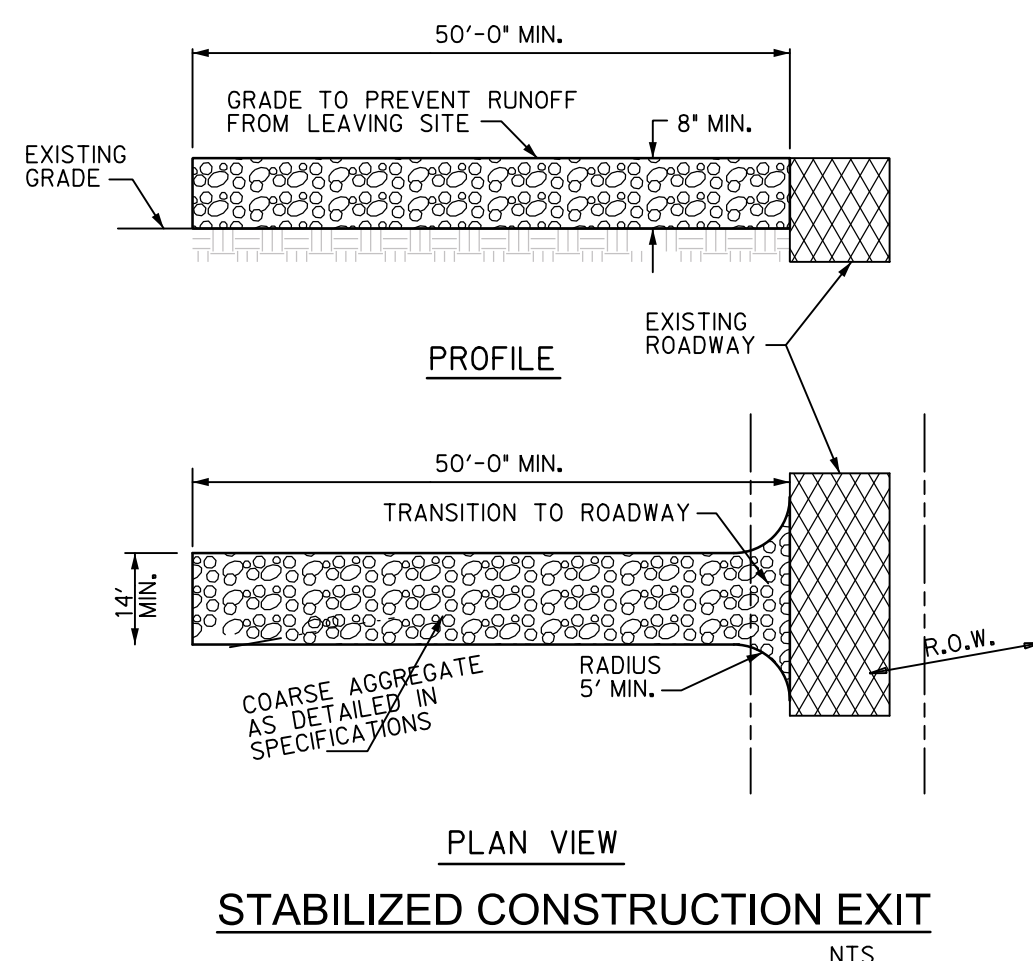
ISOMETRIC VIEW
SILT FENCE DETAIL
NTS

SILT FENCE NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED WITH A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE, AS NECESSARY, TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO BACKING SUPPORT, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. FABRIC SHALL OVERLAP AT ABUTTING ENDS A MINIMUM OF 3 FEET AND SHALL BE JOINED SUCH THAT NO BYPASS OR LEAKAGE OCCURS.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

EROSION GENERAL NOTES

1. IT IS THE INTENT OF THIS SUGGESTED EROSION CONTROL PLAN AND WITHIN THE SPECIFICATIONS TO BE USED AS THE GENERAL GUIDELINES OF THE STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT TO ESTABLISH A MINIMUM BASIS OF COMPLIANCE WITH FEDERAL REGULATIONS. CONTRACTOR SHALL PREPARE AND SUBMIT A NOTICE OF INTENT PER THE REQUIREMENTS IN THE NPDES GENERAL PERMIT. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN AND BE SOLELY RESPONSIBLE FOR ITS IMPLEMENTATION. THE STORM WATER POLLUTION PREVENTION PLAN SHALL MEET THE REQUIREMENTS SET FORTH IN THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) TPDES GENERAL PERMIT FOR REGION 6 FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES.
2. THE STORM WATER POLLUTION PREVENTION PLAN SHOULD ADDRESS THREE GOALS:
 - A) DIVERSION OF UPSLOPE WATER AROUND DISTURBED AREAS OF THE SITE;
 - B) LIMITS THE EXPOSURE OF DISTURBED AREAS TO THE SHORTEST DURATION POSSIBLE; AND
 - C) REMOVAL OF SEDIMENT FROM STORM WATER BEFORE IT LEAVES THE SITE.
3. THE CONTRACTOR SHALL MAKE THE STORM WATER POLLUTION PREVENTION PLAN AVAILABLE, UPON REQUEST, TO TCEQ.
4. THE CONTRACTOR MUST AMEND PLANS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF THE PLAN, OR WHEN THE EXISTING PLAN PROVES INEFFECTIVE. MODIFICATIONS INCLUDING DESIGN AND ALL ADDITIONAL MATERIALS AND WORK SHALL BE ACCOMPLISHED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
5. STABILIZATION MEASURES ARE TO BE INSPECTED AT A MINIMUM OF ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES. REPAIRS AND INADEQUACIES REVEALED BY THE INSPECTION MUST BE IMPLEMENTED WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
6. AN INSPECTION REPORT THAT SUMMARIZES INSPECTION ACTIVITIES AND IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE RETAINED AND MADE PART OF THE PLAN.
7. ALL CONTRACTORS AND SUBCONTRACTORS IDENTIFIED IN THE PLAN MUST CERTIFY AS TO AN UNDERSTANDING OF THE NPDES GENERAL PERMIT BEFORE CONDUCTING ANY ACTIVITY IDENTIFIED IN THE POLLUTION PREVENTION PLAN.
8. THE CONTRACTOR SHALL ADOPT APPROPRIATE CONSTRUCTION SITE MANAGEMENT PRACTICES TO PREVENT THE DISCHARGE OF OILS, GREASE, PAINTS, GASOLINE, AND OTHER POLLUTANTS TO STORM WATER. APPROPRIATE PRACTICES CAN INCLUDE:
 - DESIGNATING AREAS FOR EQUIPMENT MAINTENANCE AND REPAIR;
 - REGULAR COLLECTION OF WASTE;
 - CONVENIENTLY LOCATED WASTE RECEPTACLES; AND
 - DESIGNATING AND CONTROLLING EQUIPMENT WASHDOWN.
9. THE CONTRACTOR SHALL AMEND OR MODIFY THIS PLAN AS REQUIRED BY CONSTRUCTION MEANS, METHODS AND SEQUENCE. MODIFICATIONS SHALL NOT COMPROMISE THE INTENT OF THE REQUIREMENTS OF LAW AND THIS PLAN. MODIFICATIONS SHALL NOT BE BASIS FOR ADDITIONAL COST TO THE OWNER.
10. AREAS OF CONSTRUCTION ELSEWHERE ON THE JOB SITE SHALL CONFORM TO THE DETAILS SHOWN ON THE PLANS.
11. BORROW AREAS, IF EXCAVATED, SHALL BE PROTECTED AND STABILIZED UTILIZING THE PLAN DETAILS. ALL WORK SHALL CONFORM TO GOVERNMENTAL REQUIREMENTS AND BECOME PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWP3). THE WORK SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ALL NON-PAVED AREAS SHALL BE MULCHED AND SEEDED WITH EROSION PROTECTION IMMEDIATELY UPON COMPLETION OF FINAL GRADING. THIS INCLUDES ALL DITCHES AND EMBANKMENTS. THE CONTRACTOR SHALL MAINTAIN FINAL GRADING AND KEEP SEEDED AREAS WATERED UNTIL FULLY ESTABLISHED AND ACCEPTED BY THE OWNER.
13. THE CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION EXIT AT ALL TRAFFIC EXIT POINTS PRIOR TO EXITING ONTO ANY PAVED ROADWAY.

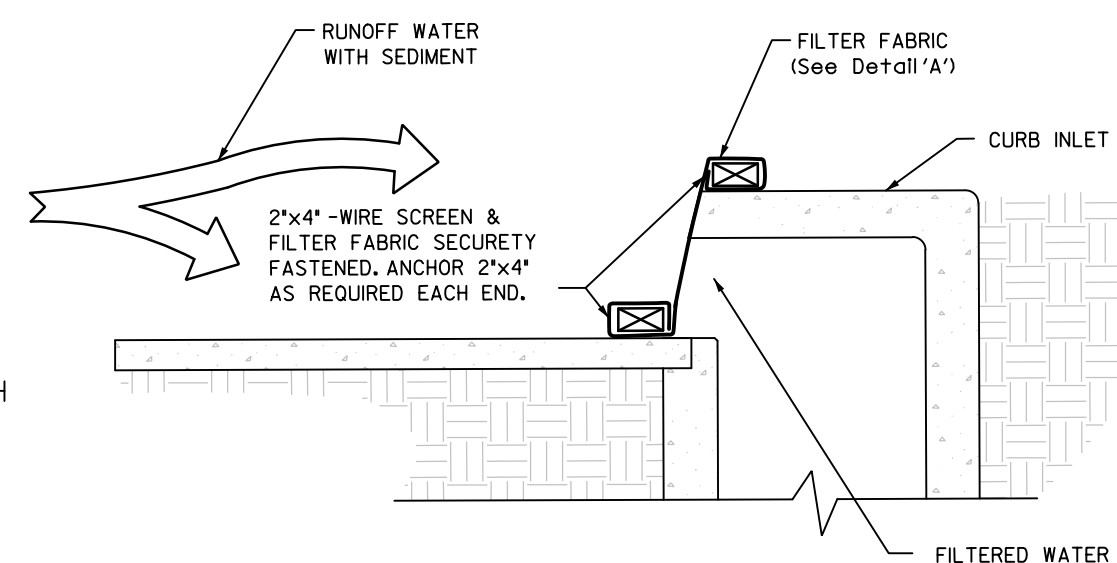


NOTES:

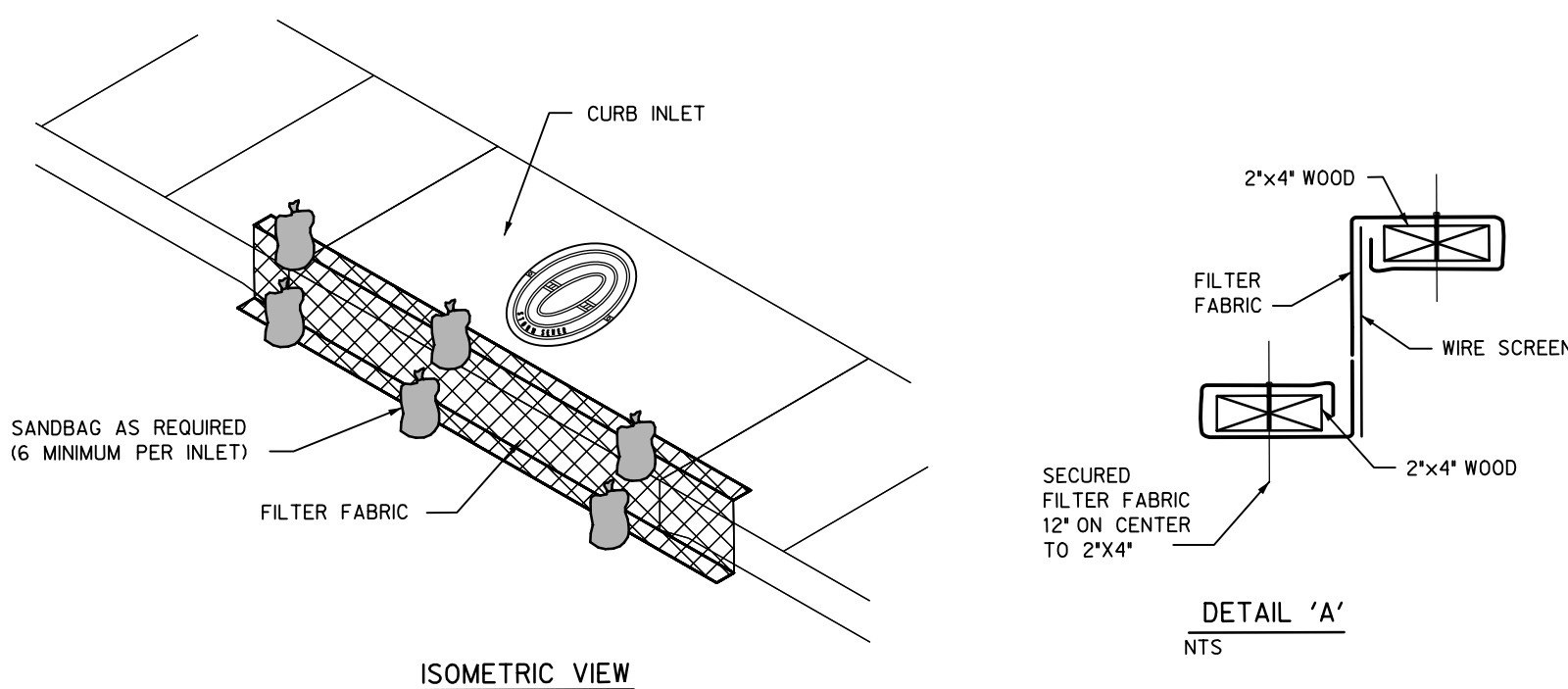
1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED CEMENT CONCRETE
2. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
3. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
4. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE. UNDER CONDITIONS DEMAND, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED SURFACES, MUST BE REMOVED IMMEDIATELY.
5. STABILIZED CONSTRUCTION EXIT TO BE REMOVED UPON COMPLETION OF CONSTRUCTION.

STABILIZED CONSTRUCTION EXIT
NTS

- NOTE:
- 1.) FILTER FABRIC CURB INLET PROTECTION TO BE REMOVED WHEN SITE IS FULLY STABILIZED
 - 2.) FILTER FABRIC TO BE CLEANED AFTER EACH RAIN EVENT
 - 3.) 2X4 LUMBER TO BE CUT AS REQUIRED TO FIT CONTOURS OF GUTTER LINE.
 - 4.) ALL BAGS TO BE USED FOR INLET PROTECTION TO BE U.V. RESISTANT.



FILTER FABRIC CURB INLET PROTECTION
NTS



TBM #1	SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS ELEVATION = 88.12(INAVD88) N=16677478.25 E=1106560.91 (NAD83)
TBM #2	SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS ELEVATION = 87.38(INAVD88) N=16677357.72 E=1106485.55 (NAD83)

HCSO BUS BARN
HIDALGO COUNTY CONTRACT
#C-18-142-05-08
EDINBURG, TX 78541

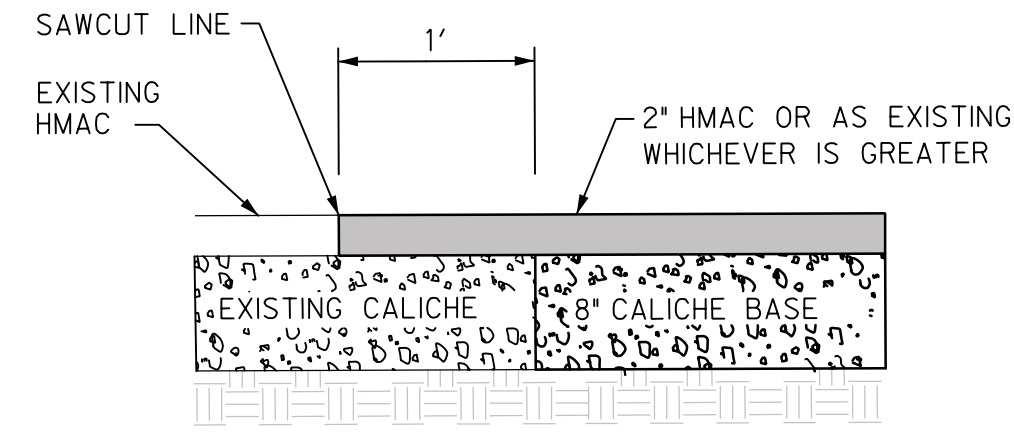
HALFF
6600 WEBB UNIVERSITY, SUITE 100
MCALLEN, TX 78501
(956) 664-0286

Revision No.	Date	Description

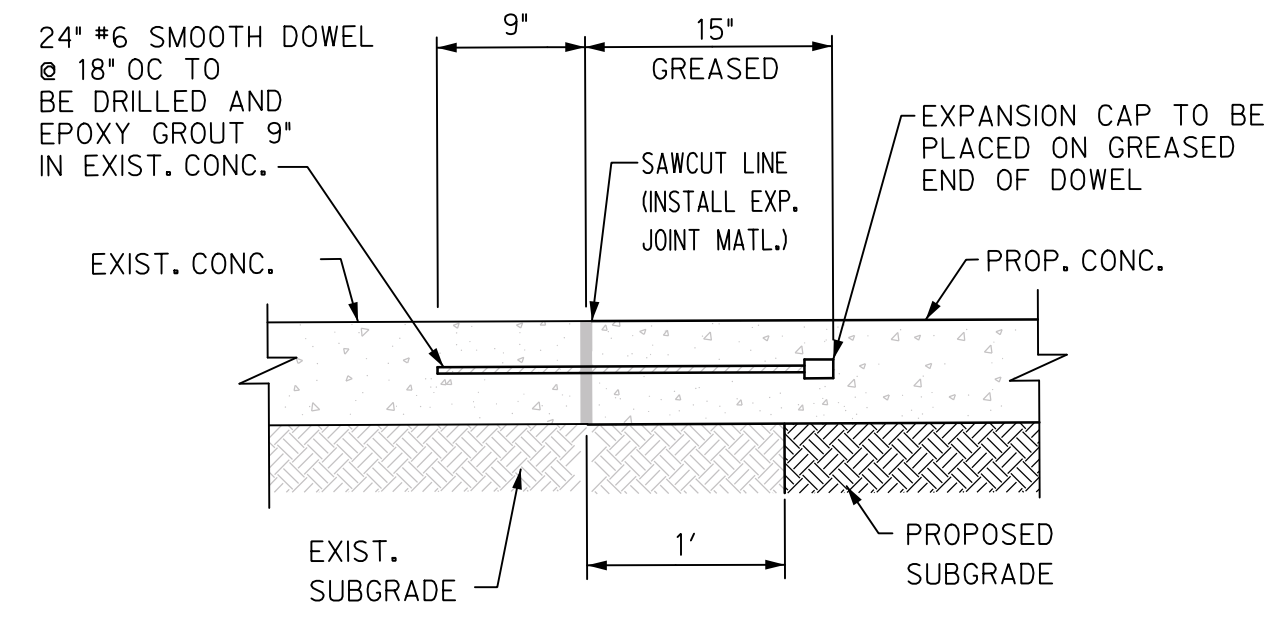
Project No.: 34015-004
Issued: JANUARY 21, 2020
Drawn By: FC
Checked By: RGJ
Scale: AS NOTED

Sheet Title
SUGGESTED EROSION CONTROL PLAN DETAILS

C5.00
Sheet Number



SAWCUT DETAIL
NTS



CONCRETE SAWCUT DETAIL
NTS

MCA 18/04/2020
 \\HALFF\ADMIN\TABLET\PLANS\2020\18-04-2020.dwg
 2/27/20 2:27:27 PM
 18/04/2020

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541



Revision No.	Date	Description



TBM #1 SET SQUARE CUT; SET ON TOP OF CURB INLET ON THE EAST SIDE OF THE SITE IMPROVEMENTS ELEVATION = 88.12(NAVD88) N=16677478.25 E=1106560.91 (NA83)	TBM #2 SET 'X'; SET ON TOP OF THE CURB INLET ON THE SOUTH EAST CORNER OF THE SITE IMPROVEMENTS ELEVATION = 87.38(NAVD88) N=16677357.72 E=1106485.55 (NA83)
--	---

Project No.:	34015-004
Issued:	JANUARY 21, 2020
Drawn By:	FC
Checked By:	RGJ
Scale:	AS NOTED
Sheet Title	MISCELLANEOUS DETAILS
Sheet Number	C6.00

GENERAL NOTES

GENERAL

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
- DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
- THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.
- CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
 - A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
 - THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

- THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
- ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
 - STEEL REINFORCEMENT IN FOUNDATION
 - STEEL FRAMING BEFORE PANEL INSTALLATION
- NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.
- WORK SHALL NOT CONTINUE AT THESE AREAS UNTIL OBSERVATION AND APPROVAL BY ENGINEER. FAILURE BY THE CONTRACTOR TO PROVIDE PROPER NOTICE FOR AN OBSERVATION VISIT AT THE REQUIRED TIME OR ADDITIONAL WORK PERFORMED WITHOUT AN OBSERVATION VISIT WILL BE DONE AT CONTRACTOR'S RISK AND MAY BE SUBJECT TO COMPLETE OR PARTIAL REMOVAL TO VERIFY COMPLIANCE OF PREVIOUS WORK.

SHOP DRAWINGS & SUBMITTALS

- SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
 - CONCRETE MIX DESIGN
 - CURING COMPOUND FOR CONCRETE
 - REINFORCING STEEL
 - STRUCTURAL STEEL
- DEFERRED SUBMITTALS THAT WILL REQUIRE APPROVAL INCLUDE:
 - PRE-ENGINEERED BUILDING CALCULATIONS (INCLUDING REACTIONS)
- DEFERRED SUBMITTALS SHALL BE DESIGNED BY A TEXAS REGISTERED PROFESSIONAL ENGINEER ACCORDING TO THE DESIGN CRITERIA STATED IN THE PLANS AND SPECIFICATIONS, AND AS REQUIRED BY THE RESPECTIVE BUILDING CODE, WHICHEVER IS GREATER. THE SUBMITTAL SHALL INCLUDE SIGNED AND SEALED CALCULATIONS.
- ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
- PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
- REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

DESIGN CRITERIA

- DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATION OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
- CODE: IBC 2012
- VERTICAL LOADS
 - ROOF DEAD LOAD (PRE-ENGINEERED BUILDING): STRUCTURE SELF WEIGHT
 - COLLATERAL LOAD (PRE-ENGINEERED BUILDING): 10 PSF
 - ROOF LIVE LOAD (REDUCIBLE) : 20 PSF
 - UPLIFT LOAD SEE ROOF UPLIFT PLAN
- LATERAL LOADS
 - WIND SPEED (V-ULT): 132 MPH
 - WIND SPEED (V-ASD) 102 MPH
 - EXPOSURE CATEGORY: C
 - IMPORTANCE FACTOR: 1.0
 - BUILDING CATEGORY: II
 - SEISMIC DESIGN CATEGORY: A
 - SITE CLASS: D
- GEOTECHNICAL ENGINEERING REPORT: PROVIDED BY L&G ENGINEERING
PROJECT NUMBER: G19009
DATED: 10/30/19
FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
 - BEARING PLUS SIDE-FRICTION CAPACITY (24" DIA. AT 20 FT DEEP) 60 KIPS
 - SIDE FRICTION CAPACITY (24" DIA. AT 20 FT. DEEP) 50 KIPS
 - ALLOWABLE LATERAL BEARING PRESSURE (CL) 100 PSF/SF

STEEL REINFORCING

- ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
- REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.
- BAR SCHEDULED OR DETAILED 'CONT' SHALL BE SPICED ONLY WHEN UNAVOIDABLE AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
 - HORIZONTAL BARS w/ MORE THAN 12" OF FRESH CONCRETE CAST BELOW LAPS.

#6 BARS AND SMALLER	-	57 BAR DIAMETERS
#7 BARS AND BIGGER	-	72 BAR DIAMETERS
 - OTHER BARS

#6 BARS AND SMALLER	-	44 BAR DIAMETERS
#7 BARS AND BIGGER	-	55 BAR DIAMETERS
 - ALL SPLICES TO BE STAGGERED A MINIMUM OF 4'-0". TOP BAR AND BOTTOM BAR SPLICES TO BE LOCATED AT MID-SPAN AND WITHIN 1/3 SPAN RESPECTIVELY.
- CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.
- EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.
- SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.
- WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.
- MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:

A. FOOTING AND CONCRETE CAST AGAINST EARTH	-	3 INCHES
B. EXPOSED TO EARTH OR WEATHER	-	2 INCHES
#6 BARS AND BIGGER	-	1.5 INCHES
#5 BARS AND SMALLER	-	1.5 INCHES
C. BEAMS AND COLUMNS	-	1 INCH
D. SLABS AND WALLS	-	1 INCH
- REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.
- ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.

#4 BARS	-	100 FT.
#5 BARS	-	100 FT.
#6 BARS	-	100 FT.

CONCRETE

- ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.
- CEMENT SHALL CONFORM TO ASTM C150 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.
- CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
PIERS	4000 PSI	4"-6"	1.5 IN.
COLUMNS	PSI		
- INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.
- PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.
- ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
- HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
- CURE CONCRETE IN ACCORDANCE WITH ACI 308.1
- REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.
- CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.
- FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
- ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS FF = 35 AND A MINIMUM LEVELNESS OF FL = 25
- CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.
- TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
 - SETS SHALL CONSIST OF 3 CYLINDERS
 - ONE TESTED AT 7 DAYS
 - TWO TESTED AT 28 DAYS
 - ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
 - A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE
- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
- PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACI 302.1 AND 304.
- UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F_c), BEFORE FORMS MAY BE REMOVED.

WALL, COLUMNS, & BEAM SIDES.....	40%
JOIST PANS & BEAM BOTTOMS (IF RESHORED).....	70%
SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....	85%
- NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
- CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.
- ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

PRE-ENGINEERED METAL BUILDING AND COMPONENTS

- REFER TO SCHEMATIC ROOF FRAMING PLAN AND DESIGN CRITERIA FOR DESIGN LOAD REQUIREMENTS AND SPECIFICATIONS FOR THE PRE-ENGINEERED METAL BUILDING.
- PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL SUBMIT DESIGN CERTIFICATION SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS FOR THE STRUCTURAL FRAMING AND COVERING PANELS OF THE BUILDING SYSTEM. CERTIFICATION AND DESIGN SHALL MEET REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC) AND ASCE 7.
- PRE-ENGINEERED METAL BUILDING MANUFACTURER CERTIFICATION SHALL BE SUBMITTED WITH SEALED SHOP DRAWINGS WHEN SUBMITTED FOR REVIEW.
- SHOP DRAWINGS AND CALCULATIONS INCLUDING BUILDING REACTIONS, SHALL BE PREPARED AND REVIEWED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS. SEALED SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW BY THE DESIGN TEAM.
- ALL COMPONENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS AND STANDARDS OF THE AISC. THIS WORK SHALL INCLUDE ALL MEMBERS AND BRACES NECESSARY TO BRACE MASONRY WALLS. LIGHT GAGE STEEL MEMBERS SHALL COMPLY WITH THE LATEST ADDITION OF THE AISI.
- PURLINS AND EAVE STRUTS SHALL HAVE A MINIMUM YIELD STRESS OF 55 KSI AND SHALL BE PAINTED WITH ONE COAT OF RED OXIDE OR APPROVED SHOP COAT.
- PURLIN SPACING SHOWN IN STRUCTURAL DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. PURLIN SPACING TO BE DETERMINED BY METAL BUILDING MANUFACTURER. PURLINS SHALL HAVE A MAXIMUM TOTAL LOAD DEFLECTION OF L/180.
- SAG STRAPS SHALL BE LOCATED AS SHOWN ON PLANS AND SHALL BE FABRICATED WITH A MINIMUM YIELD STRENGTH OF 50 KSI.
- STANDING SEAM METAL ROOF SHALL NOT BE CONSIDERED TO PROVIDE LATERAL BRACING FOR PURLINS. BRIDGING SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER TO RESIST BOTH GRAVITY AND UPLIFT LOADS.
- CROSS BRACING SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER TO PROVIDE AN ADEQUATE HORIZONTAL ROOF DIAPHRAGM FOR THE STRUCTURE.
- PROVIDE PINNED BASE CONNECTION FROM COLUMN TO FOUNDATION.
- ALL ANCHOR BOLTS SIZES, LENGTH, AND EMBEDMENT SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER AND SUPPLIED BY THE CONTRACTOR. ANCHOR BOLT EMBEDMENT DEPTHS SHALL BE DESIGNED TO RESIST CONCRETE CONICAL SHEAR FAILURE.
- THIS FOUNDATION HAS BEEN DESIGNED USING ASSUMED REACTIONS FROM THE PRE-ENGINEERED METAL BUILDING COMPONENTS AND IS FOR BID PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT BASE CONNECTION DETAILS (SIZE AND THICKNESS OF BASE PLATE AND DIAMETER AND LENGTH OF ANCHOR BOLTS) AND REACTIONS SO THE DESIGN ASSUMPTIONS CAN BE VERIFIED.
- ANY ADDITIONAL COST OF FOUNDATION WORK REQUIRED BY REVISIONS OF THE FOUNDATION DESIGN AFTER PRE-ENGINEERED METAL BUILDING REACTIONS ARE SUBMITTED SHALL NOT BE INCURRED BY STRUCTURAL ENGINEER.
- DRIFT CRITERIA FOR RIGID FRAMES AND METAL GIRTS SHALL HAVE A MAXIMUM DEFLECTION OF H/240 FOR MASONRY FINISHES AND A H/120 FOR METAL SIDING.

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

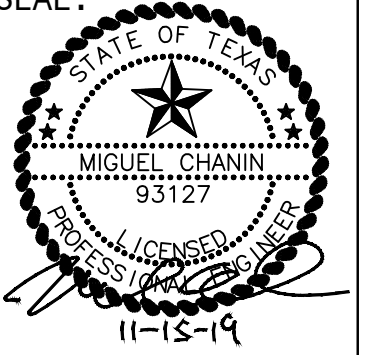
© COPYRIGHT 2019 - ALL RIGHTS RESERVED

These drawings, as instruments of professional service, are the property of Chanin Engineering LLC for use solely with respect to this Project and shall not be reproduced for other purposes.

The Professional Engineer whose seal appears on the structural construction documents is the project Structural Engineer-of-Record (SER) who bears legal responsibility for the performance of the structural framing relating to the public health, safety and welfare. No other party, whether or not a Professional Engineer, may complete, correct, revise, delete or add to these construction documents or perform inspections of the work without the written permission of the SER.

CHANIN ENGINEERING, LLC
 TBPE FIRM REG. NUMBER F-8989
 PH: (956) 687-9421
 FAX: (956) 687-3211
 400 Neilson, Suite H2
 McAllen, Texas 78504
 www.chaninengineering.com

SEAL :



HIDALGO COUNTY SHERIFFS
OFFICE BUS BARN
 Edinburg, Texas

PROJECT :

JOB NO. 19162

DATE: 11/15/19

DRAWN BY: JP

CHECKED BY: MC

REVISION:

DRAWING NO:

S1.0

GENERAL NOTES

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	---
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	---	X	---	---
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	---	X	AISC 360, SECTION M2.5	---
b. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	---	ASTM A 6 OR ASTM A 568	---
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	---	---	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	---	---	AISC 360, SECTION A3.5	---
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	---	---	---	---
5. INSPECTION OF WELDING:				
a. STRUCTURAL STEEL:				
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	---	AWS D1.1	---
2) MULTIPASS FILLET WELDS.	X	---		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	---		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	---	X		
5) FLOOR AND ROOF DECK WELDS.	---	X	AWS D1.3	---
b. REINFORCING STEEL:				
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	---	X	AWS D1.4 ACI 318: 3.5.2	---
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	---		
3) SHEAR REINFORCEMENT.	X	---		
4) OTHER REINFORCING STEEL.	---	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:				
a. DETAILS SUCH AS BRACING AND STIFFENING.	---	---	---	---
b. MEMBER LOCATIONS.	---	---	---	---
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	---	---	---	---

**TABLE 1705.3
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION**

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	---	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2b.	---	---	AWS D1.4 ACI 318: 3.5.2	---
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	---	X	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.	---	X	ACI 318: 3.86, 8.1.3, 21.2.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	---	X	ACI 318: Ch. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	---	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	---	ACI 318: 18.20 ACI 318: 18.18.4	---
10. ERECTION OF PRECAST CONCRETE MEMBERS.	---	X	ACI 318: Ch.16	---
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	---	X	ACI 318: 6.2	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X	ACI 318: 6.1.1	---

**TABLE 1705.8
REQUIRED VERIFICATION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS**

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	---
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	---
3. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	---	---

**TABLE 1705.6
REQUIRED VERIFICATION AND INSPECTION OF SOILS**

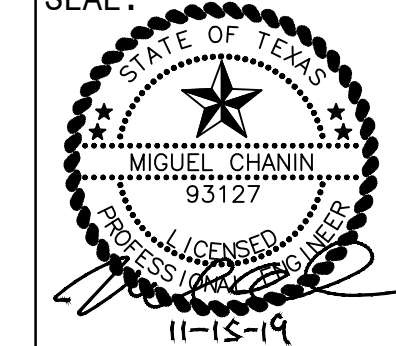
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

STRUCTURAL TESTS AND SPECIAL INSPECTION

- THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.
- THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION.
 - APPROVED AGENCY - AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
 - APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
 - SPECIAL INSPECTION, CONTINUOUS - THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
 - SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
- SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.
 - SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AISC 360.

CHANIN ENGINEERING, LLC
 TBPE FIRM REG. NUMBER F-9369
 PH: (956) 687-9421
 FAX: (956) 687-3211
 400 Nelms, Suite H2
 McAllen, Texas 78504
 www.chaninengineering.com

SEAL:



HIDALGO COUNTY SHERIFFS
OFFICE BUS BARN
 Texas
 Edinburg,

PROJECT:

JOB NO.19162

DATE:11/15/19

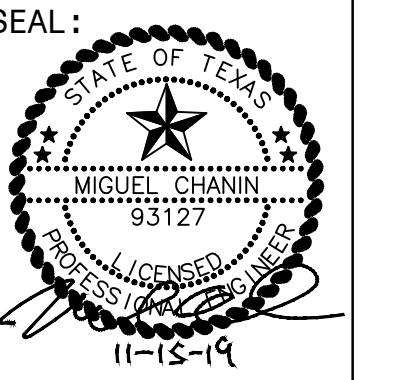
DRAWN BY:JP

CHECKED BY:MC

REVISION:

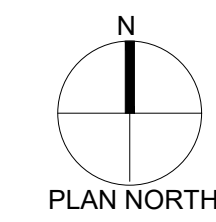
DRAWING NO:

S1.1

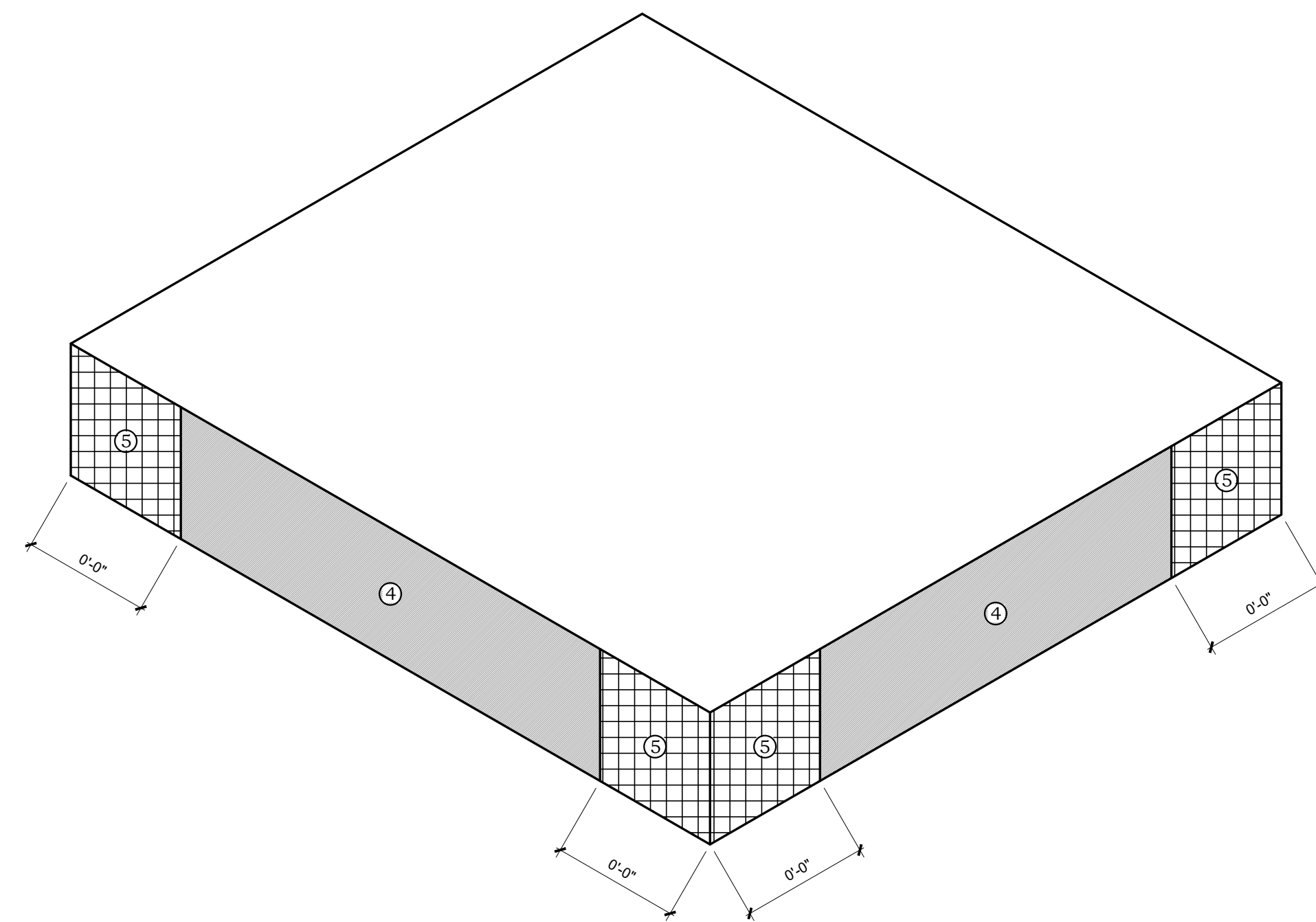


NOTE: EXACT NUMBER OF PURLINS MAY NOT BE ACCURATELY REPRESENTED ON PLANS. ADDITIONAL PURLINS MAY BE REQUIRED TO MEET UPLIFT REQUIREMENTS.

UPLIFT PER PRE-ENGINEERED BUILDING MANUFACTURER.



ROOF UPLIFT PLAN
 SCALE: NTS



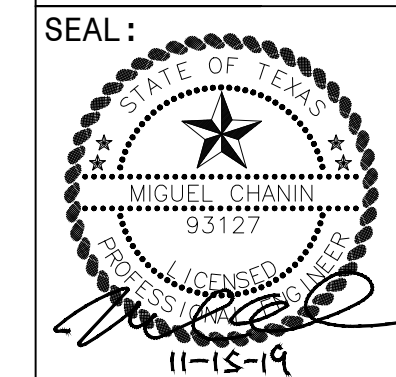
ALLOWABLE STRESS DESIGN		
EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	④	± 32.8 psf
20	④	± 31.8 psf
50	④	± 30.9 psf
10	⑤	± 38.8 psf
20	⑤	± 36.8 psf
50	⑤	± 34.8 psf

WIND LOAD PLAN NOTES:
 1. NEGATIVE PRESSURES DENOTE FORCE ACTING AWAY FROM BUILDING SURFACE (SUCTION).
 2. PRESSURES FOR TRIBUTARY AREAS IN BETWEEN THE LISTED VALUES MAY BE LINEARLY INTERPOLATED.

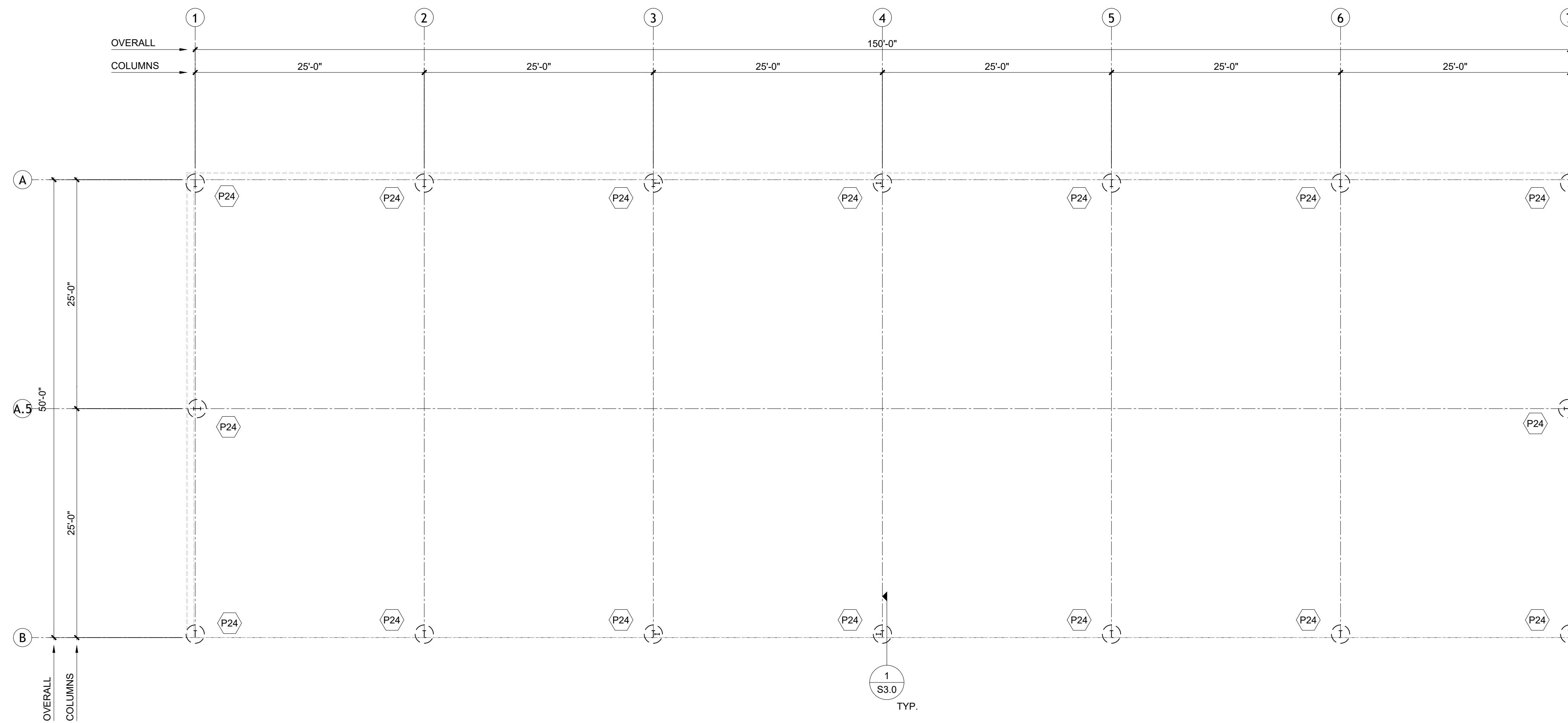
COMPONENTS AND CLADDING
 SCALE: NTS

HIDALGO COUNTY SHERIFFS
OFFICE BUS BARN
 Edinburg, Texas

PROJECT:
 JOB NO. 19162
 DATE: 11/15/19
 DRAWN BY: JP
 CHECKED BY: MC
 REVISION:
 DRAWING NO:
S1.2



**HIDALGO COUNTY SHERIFFS
OFFICE BUS BARN**
Texas
Edinburg,

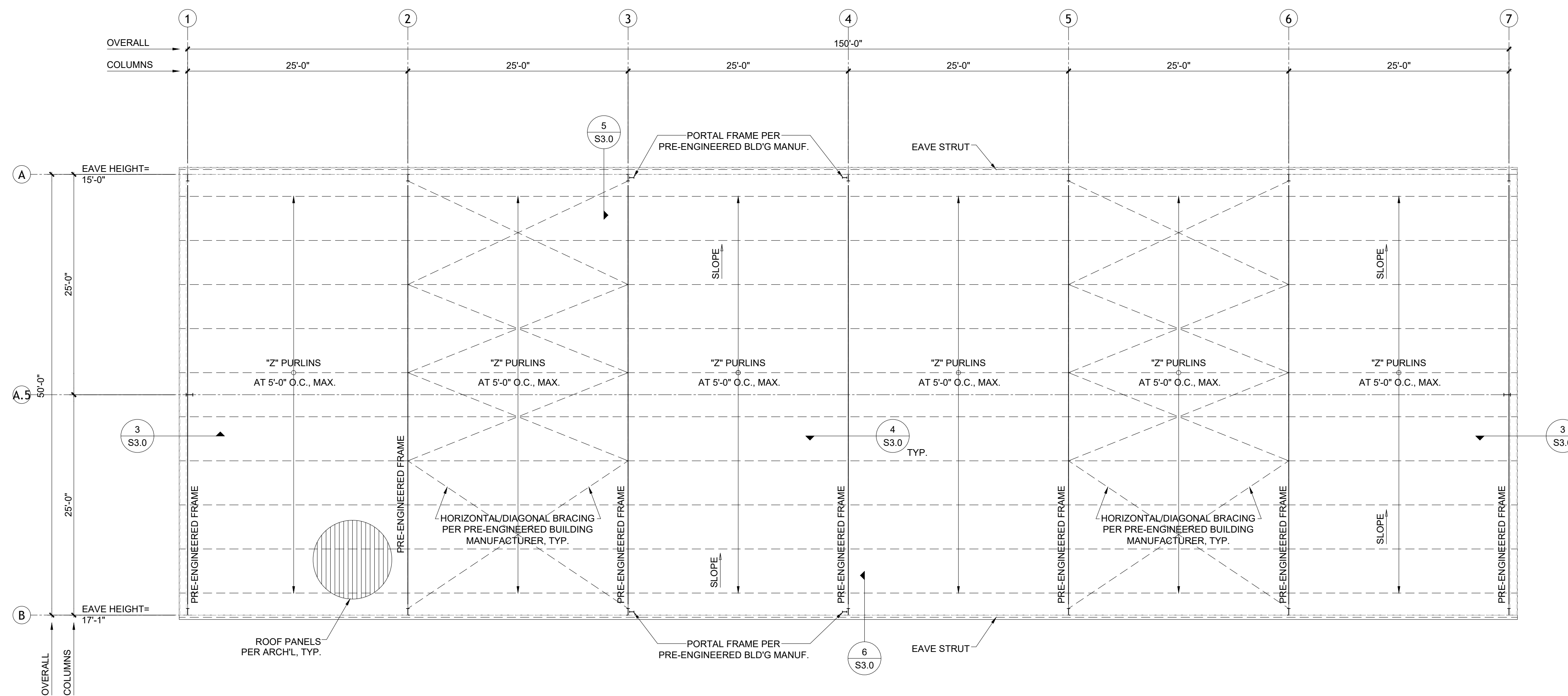


FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
3. (P24) INDICATES CONCRETE PIER, SEE DETAIL 1/S3.0

FOUNDATION PLAN

SCALE: 1/8"=1'-0"



BASE BID: ALL STEEL & CONNECTIONS TO BE HOT DIPPED GALVANIZED

ALTERNATE #1: ALL STEEL AND CONNECTIONS TO BE PAINTED w/ ONE COAT OF RED-OXIDE OR APPROVED SHOP COAT. CONTRACTOR TO PREP FOR A MIN OF ONE ADDITIONAL COAT OF APPROVED POWDER COAT/PAINT FINISH. CONTRACTOR TO VERIFY FINISH COLOR WITH OWNER.

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.

ROOF FRAMING PLAN

SCALE: 1/8"=1'-0"

PROJECT:

JOB NO. 19162

DATE: 11/15/19

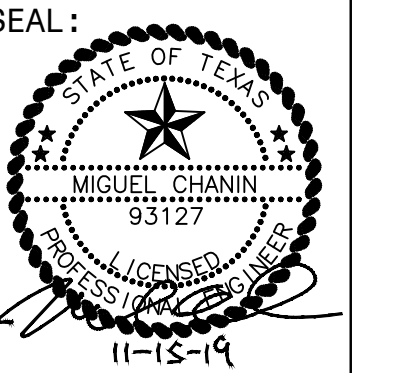
DRAWN BY: JP

CHECKED BY: MC

REVISION:

DRAWING NO:

S2.0

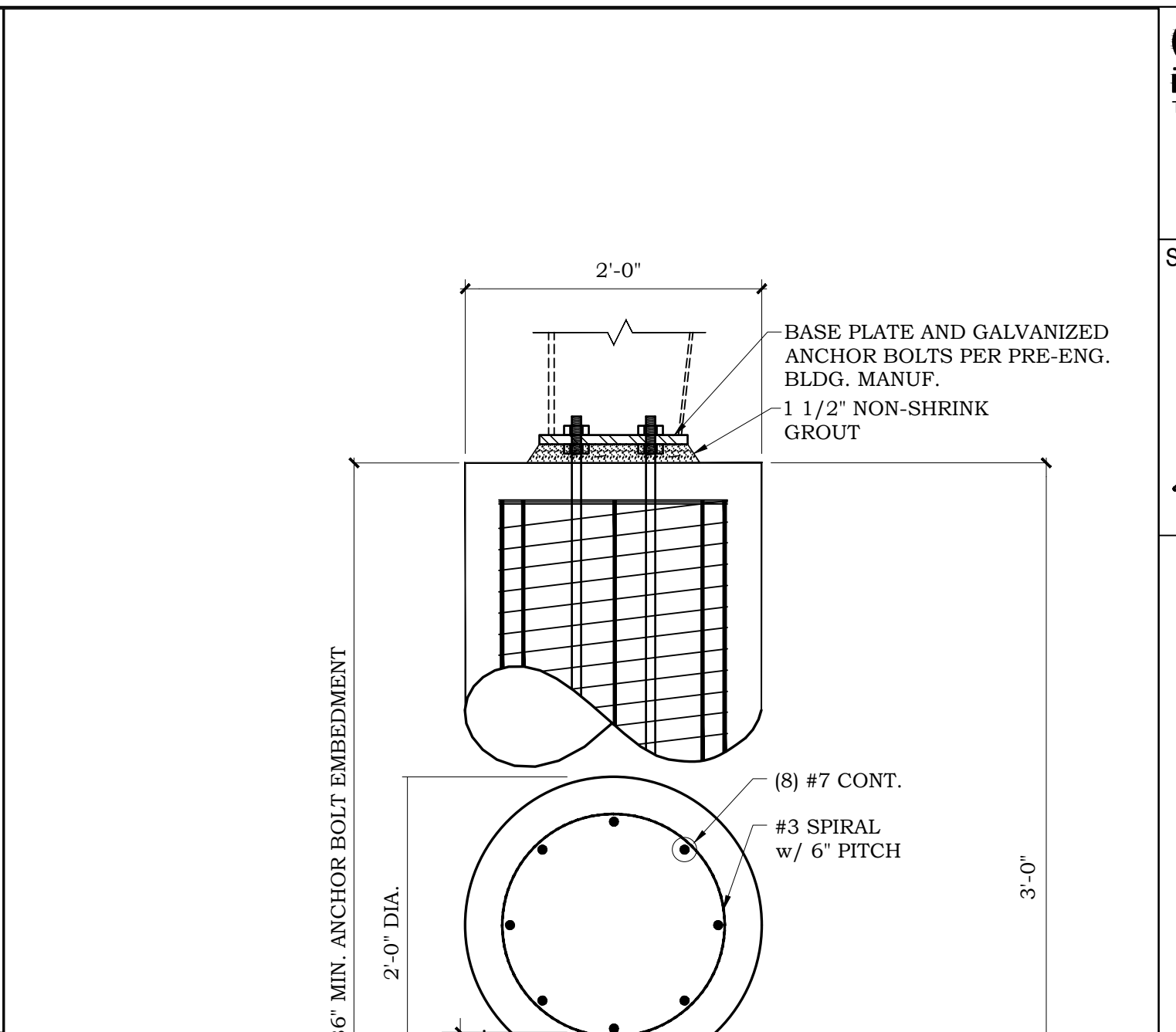
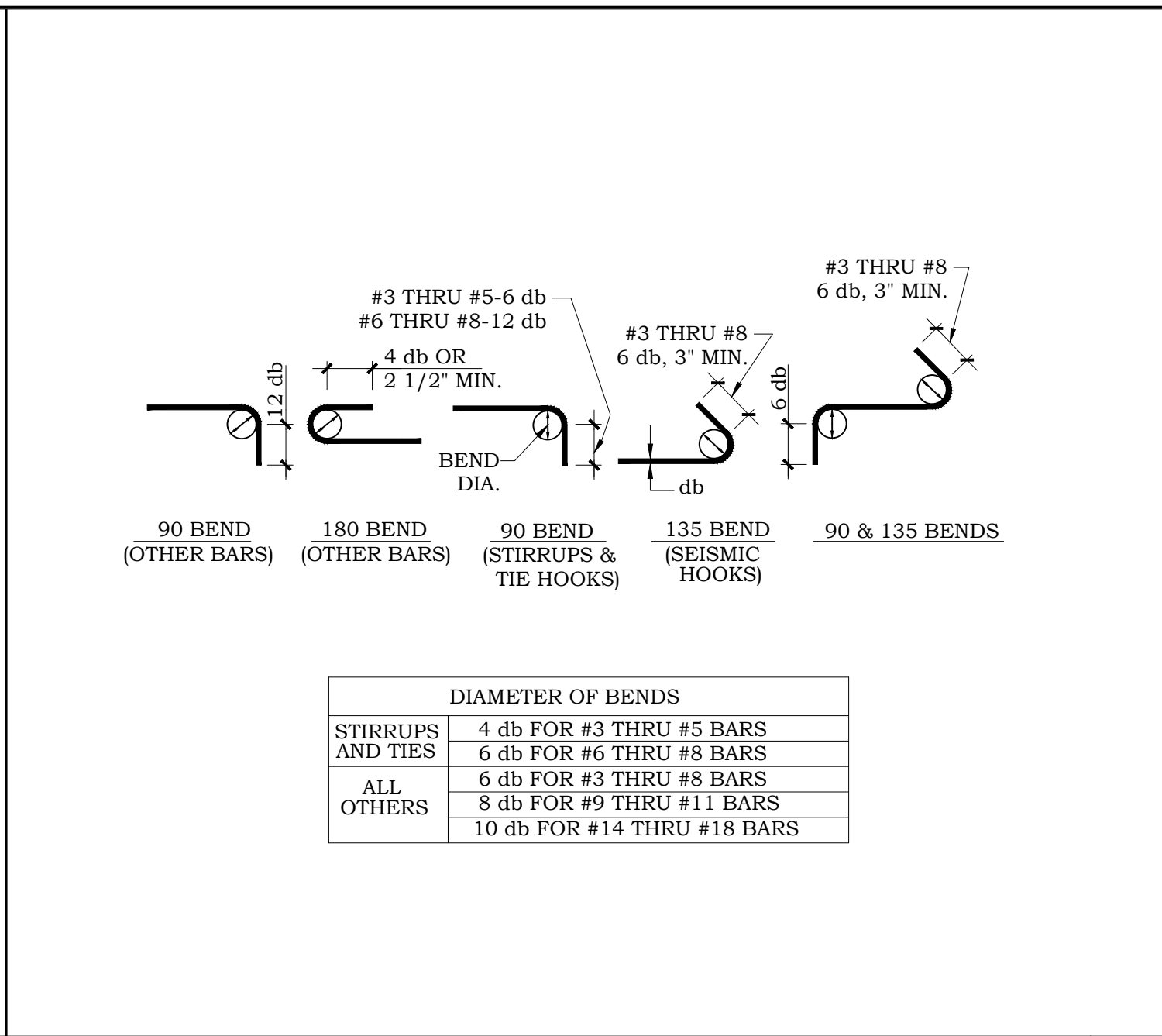
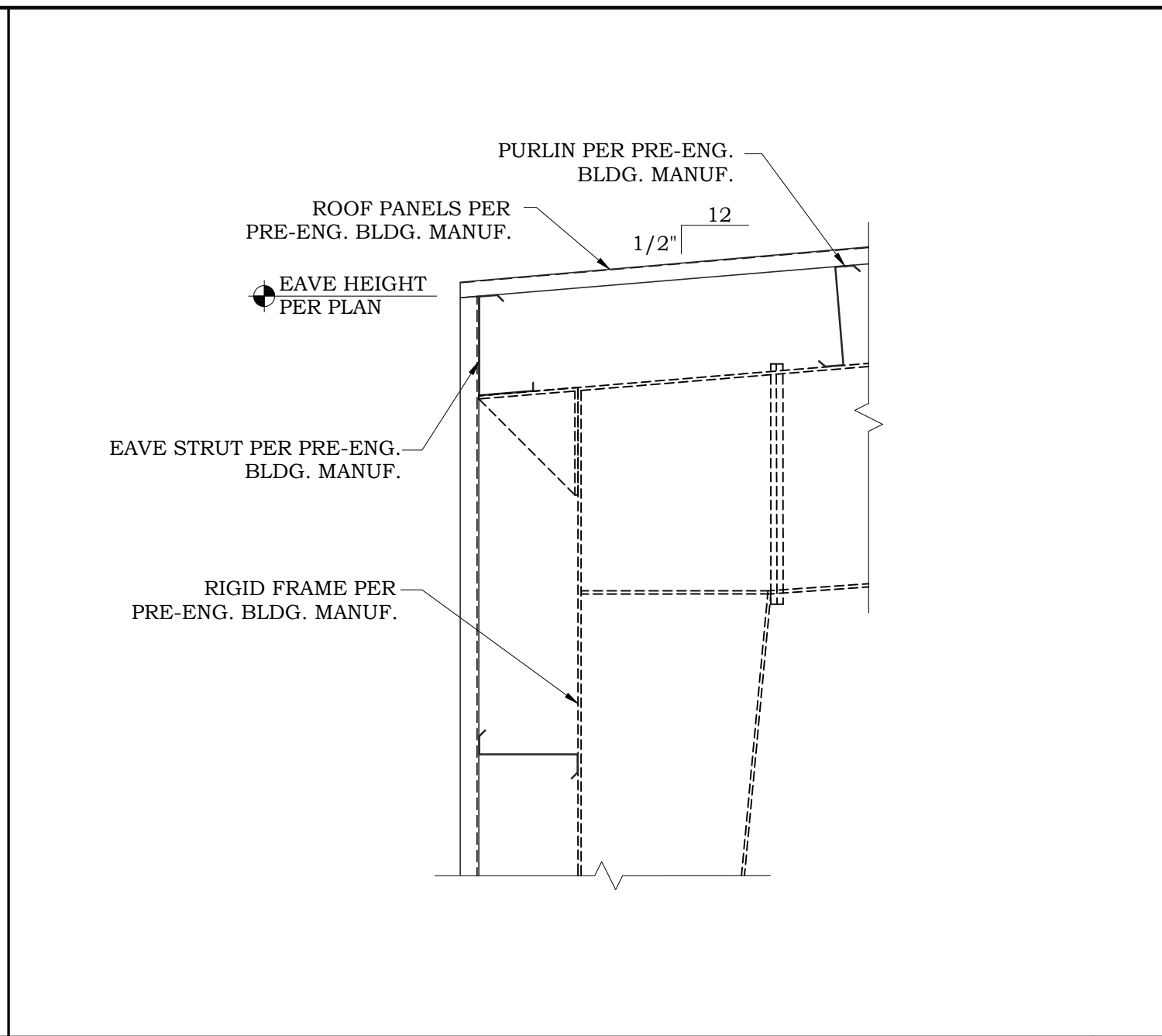


**HIDALGO COUNTY SHERIFFS
 OFFICE BUS BARN**
 Edinburg, Texas

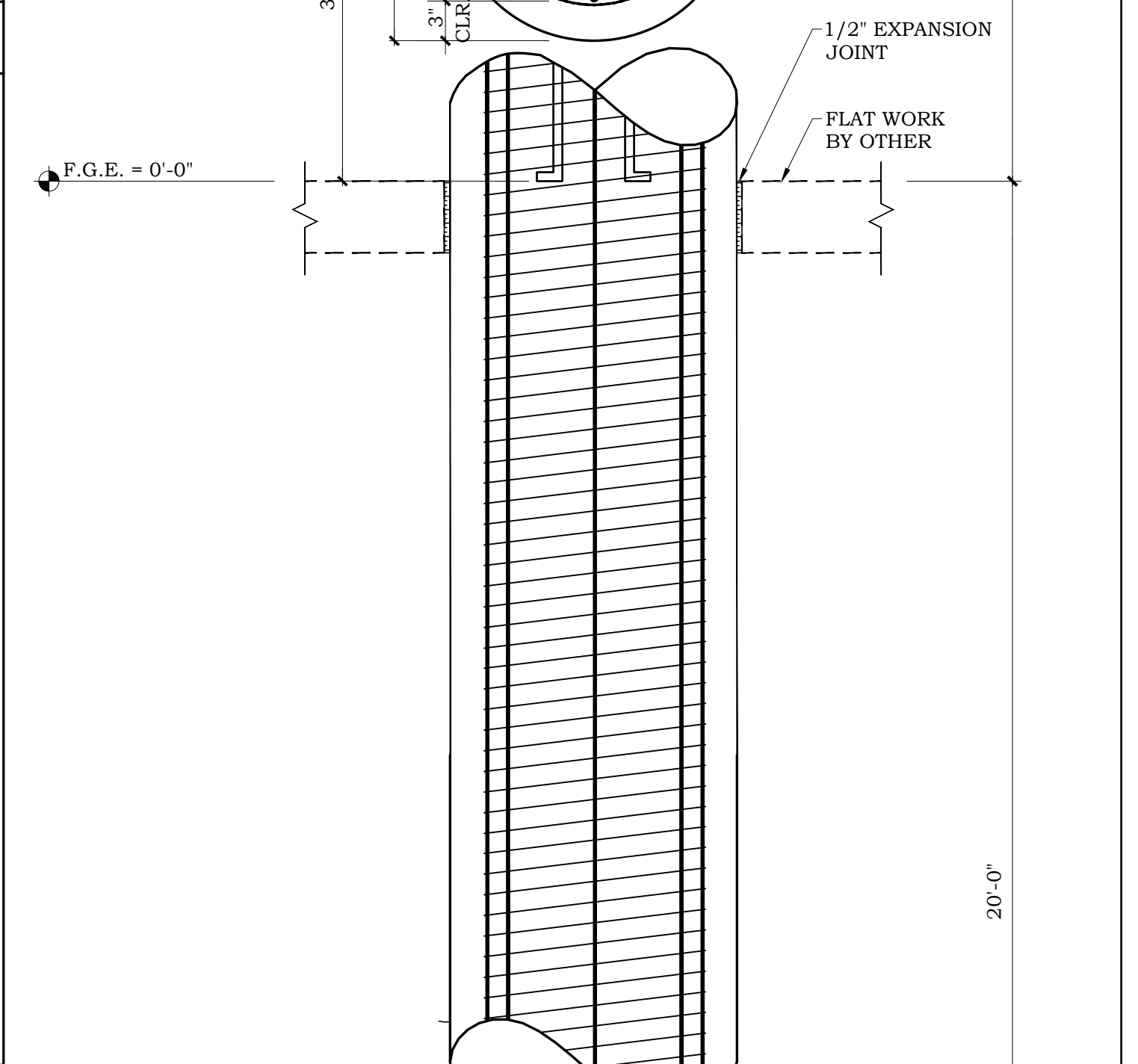
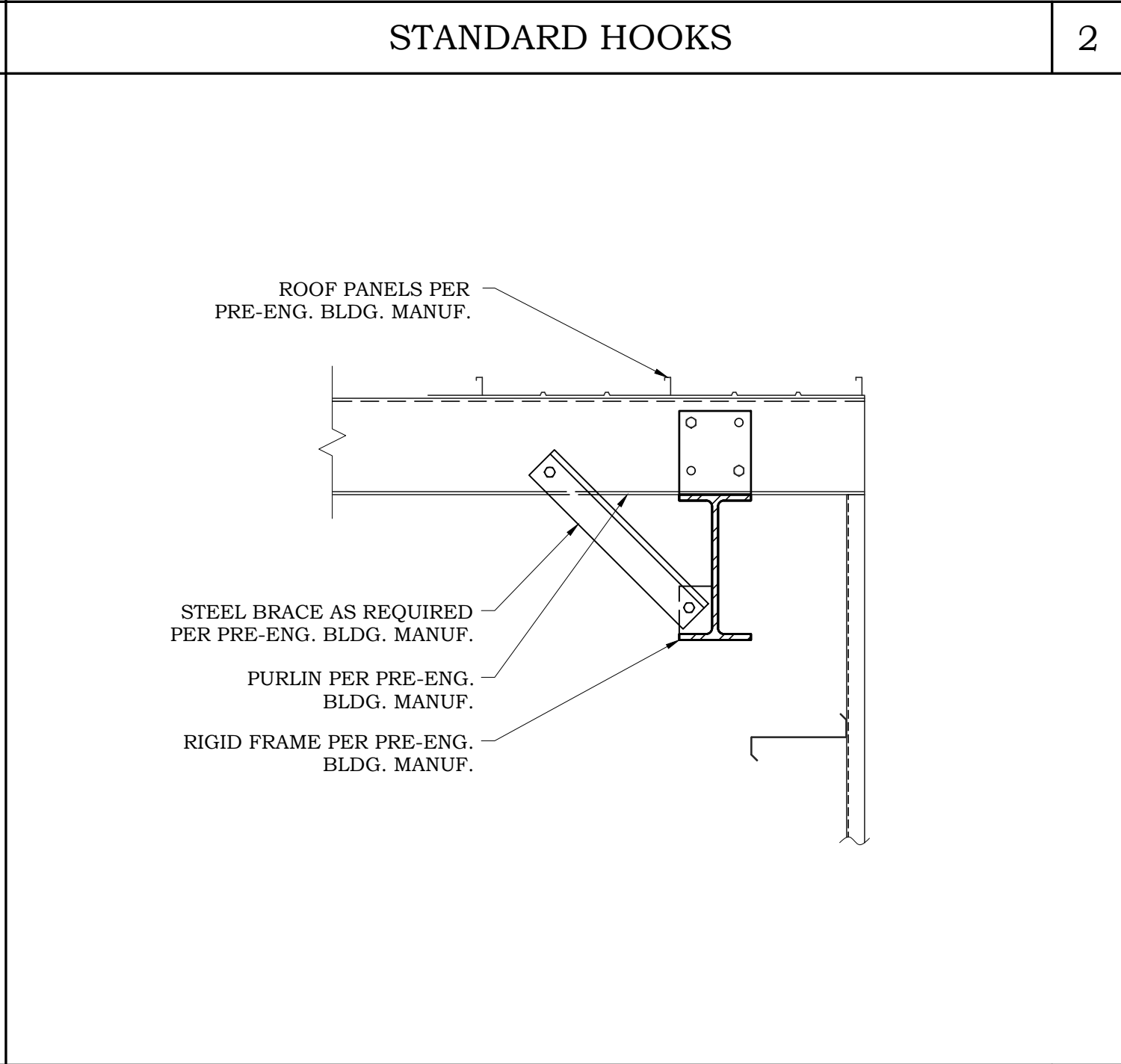
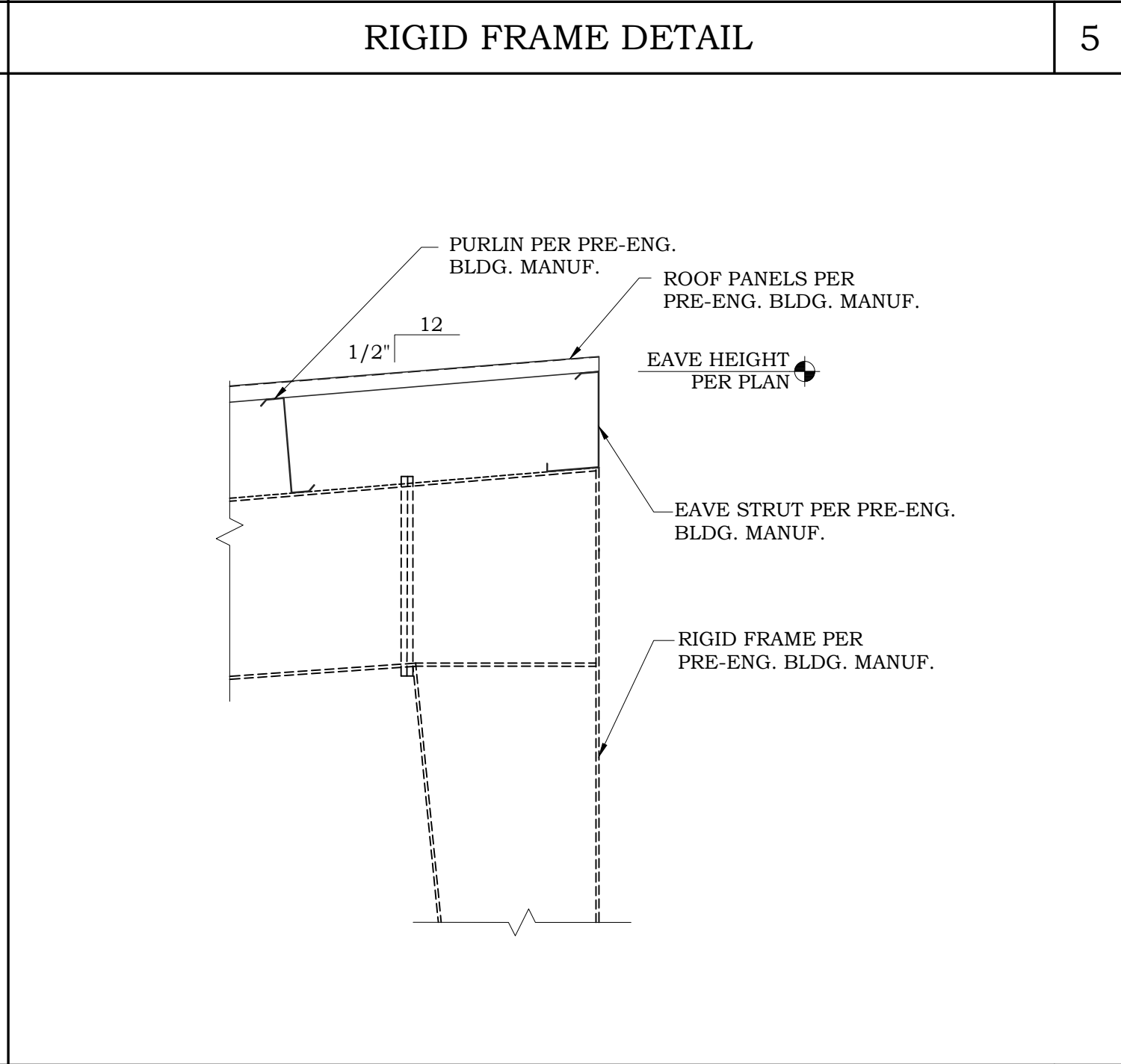
PROJECT:
 JOB NO. 19162
 DATE: 11/15/19
 DRAWN BY: JP
 CHECKED BY: MC
 REVISION:

DRAWING NO:
S3.0

NOT USED 8

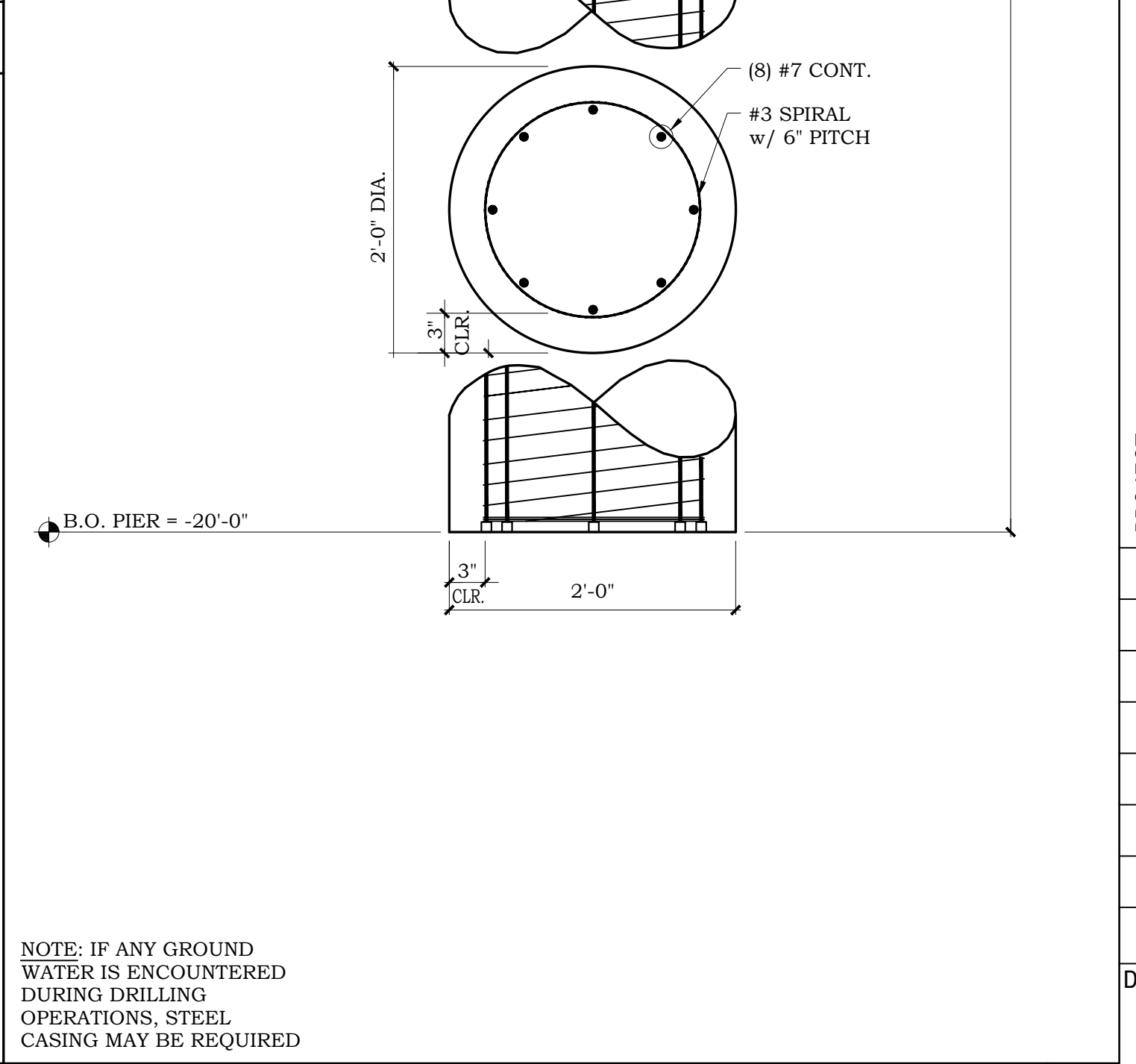
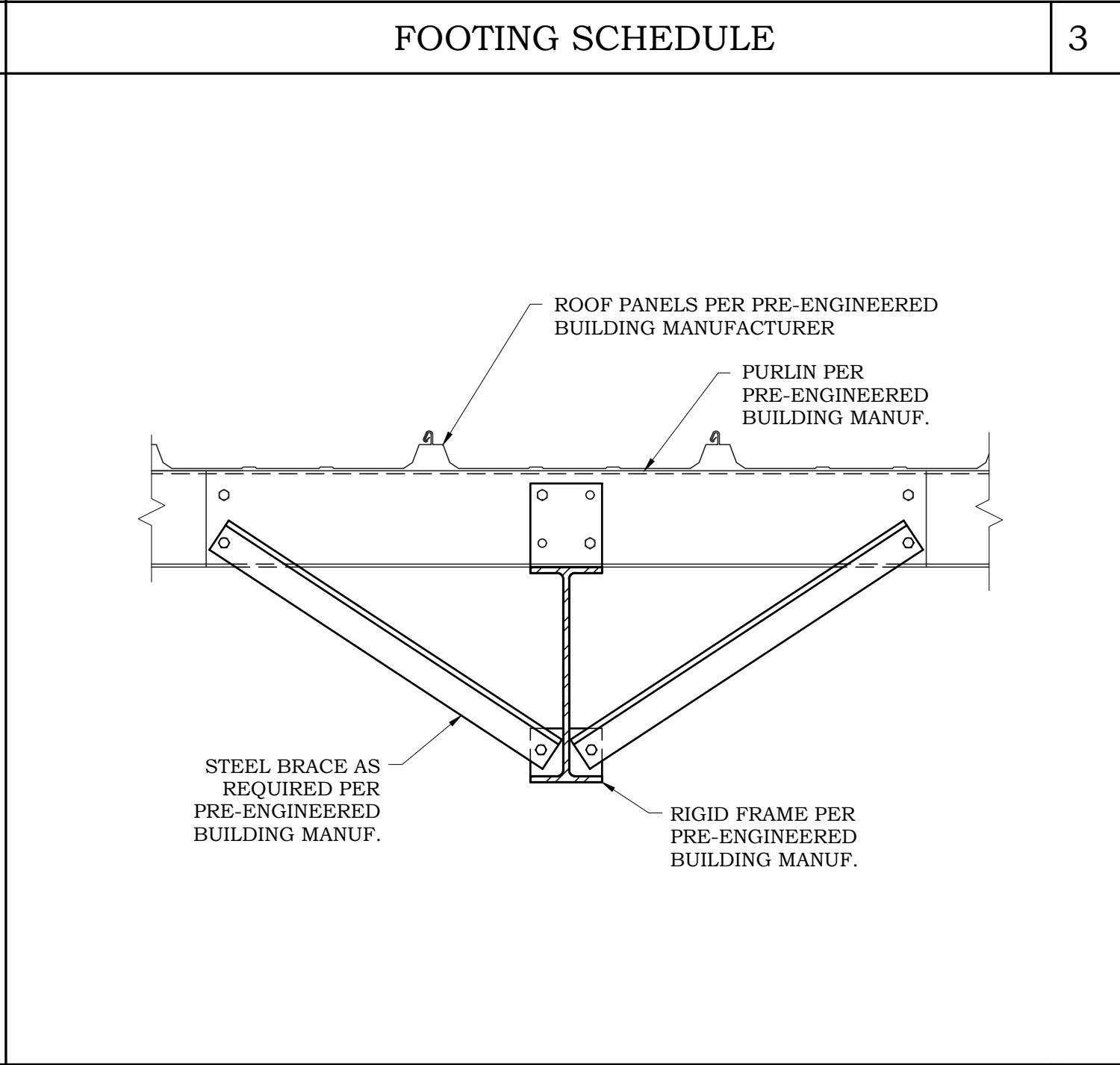


NOT USED 9



NOT USED 10

NOT USED 7



NOTE: IF ANY GROUND WATER IS ENCOUNTERED DURING DRILLING OPERATIONS, STEEL CASING MAY BE REQUIRED

ELECTRICAL SPECIFICATIONS

I. GENERAL CONDITIONS

- A. THE SCOPE OF THE WORK SHALL INCLUDE THE FURNISHING AND INSTALLATION OF THE NECESSARY MATERIAL AND LABOR TO ACCOMPLISH THE WORK INDICATED BY THE DRAWINGS AND HEREIN SPECIFIED. ALL WORK BY THIS CONTRACTOR SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING CODES. WHERE CONFLICTS BETWEEN THIS SPECIFICATION AND THE BASE BUILDING SPECIFICATION EXIST, THE BASE BUILDING DOCUMENT SHALL GOVERN.
- B. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL EXISTING SYSTEMS, EQUIPMENT OR MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE EXISTING CONDITIONS AT THE JOB SITE BEFORE SUBMITTING PROPOSALS. SUBMISSION OF PROPOSALS SHALL BE TAKEN AS EVIDENCE THAT SUCH INSPECTION HAS TAKEN PLACE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE COMPLETE SET OF CONSTRUCTION DOCUMENTS, AND THE LACK OF SPECIFIC INFORMATION ON THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY.
- C. MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE NEW AND SHALL BEAR THE U.L. LABEL WHERE APPLICABLE, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR AFTER COMPLETION AND ACCEPTANCE BY THE OWNER.
- D. CONTRACTOR SHALL INSTALL ELECTRICAL SYSTEMS WITHOUT INTERFERENCE AND IN STRICT COORDINATION WITH OTHER TRADES.
- E. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES AND STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT/ENGINEER/OWNER IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, HE SHALL BEAR ALL COSTS ARISING IN CORRECTING SUCH DEFECTS. APPLICABLE CODES AND STANDARDS SHALL INCLUDE ALL ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF NATIONALLY ACCEPTED CODES AND STANDARDS. SHOULD THE CONTRACTOR SUPPLY EQUIPMENT DIFFERING FROM THE SPECIFIED ITEMS IN THE CONTRACT DOCUMENTS WITHOUT NOTIFICATION TO THE ENGINEER/OWNER, HE SHALL BEAR ALL COSTS TO UPGRADE DEFICIENCIES ARISING FROM SUCH.
- F. WHERE ONLY ONE MANUFACTURER'S NAME IS LISTED IN THE EQUIPMENT SPECIFICATION, OTHER MANUFACTURERS OF SIMILAR CHARACTERISTICS AND OF EQUAL OR BETTER PERFORMANCE CAPACITIES MAY BE CONSIDERED FOR "OR EQUAL" ACCEPTANCE BY THE ENGINEER. SUBSTITUTION REQUESTS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. WHERE MORE THAN ONE MANUFACTURER IS LISTED IN THE NOTES AND EQUIPMENT SPECIFICATIONS, ONLY THOSE NAMED MANUFACTURERS WILL BE CONSIDERED FOR ACCEPTANCE. SHOULD A SUBSTITUTION BE ACCEPTED, AND SHOULD THE SUBSTITUTE MATERIAL PROVE DEFECTIVE, OR OTHERWISE UNSATISFACTORY FOR THE SERVICE INTENDED WITHIN THE GUARANTEE PERIOD, THIS MATERIAL OR EQUIPMENT SHALL BE REPLACED WITH THE MATERIAL OR EQUIPMENT SPECIFIED AT NO COST TO THE OWNER.
- G. PROVIDE ACCESS, INCLUDING NECESSARY ACCESS DOORS, FOR NEW AND EXISTING EQUIPMENT REQUIRING OPERATION AND/OR MAINTENANCE. RELOCATE EXISTING AND LOCATE ALL NEW EQUIPMENT SUCH THAT OPERATION OR MAINTENANCE IS NOT RESTRICTED.
- H. INSTALL EQUIPMENT WITH WORKING CLEARANCES COMPLYING WITH NEC 110.26 AND 110.34.

II. PRODUCTS

- A. CONDUIT
- A.1. RIGID STEEL CONDUIT (RSC - GALVANIZED RIGID CONDUIT): CONSTRUCTED OF MILD STEEL PIPING, GALVANIZED INSIDE AND OUTSIDE, CONFORMING WITH FED. SPEC. WW-C-381C, ANSI C80.1 AND APPLICABLE U.L. STANDARDS.
- A.2. INTERMEDIATE METAL CONDUIT (IMC): CONSTRUCTED OF ZINC COATED STEEL TUBING MANUFACTURED IN ACCORDANCE WITH UL-1242 AND MEETING THE REQUIREMENTS OF THE NEC.
- A.3. ELECTRIC METALLIC TUBING (EMT): OF HIGH GRADE STEEL MANUFACTURED SPECIFICALLY TO STANDARDS ASSURING MAXIMUM WELDING CHARACTERISTICS AND DUCTILITY, AND SHALL CONFORM TO FED. SPEC. WW-T-806b.
- A.4. FLEXIBLE METAL CONDUIT: MANUFACTURED OF MILD STEEL STRIP MATERIAL HAVING A HOT-DIP GALVANIZED COATING AND MEETING REQUIREMENTS OF FED. SPEC. WW-C-566b.
- A.5. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT AS SPECIFIED HEREIN WITH A COPPER GROUNDING STRAND AND FACTORY-APPLIED NEOPRENE JACKET. LIQUID TIGHT FLEXIBLE CONDUIT SHALL BE UL LISTED, EQUIVALENT TO ANACONDA "SEALITE", TYPE UA.
- A.6. METAL-CLAD CABLE MAY BE USED. TYPE MC METAL CLAD CABLE SHALL BE HOSPITAL GRADE AND CONSIST OF FACTORY ASSEMBLED INSULATED CONDUCTORS ENCLOSED IN A METALLIC SHEATH OF INTERLOCKED GALVANIZED STEEL STRIP MANUFACTURED IN ACCORDANCE WITH U.L. 1569. THE CONDUCTORS SHALL HAVE AN OPERATING TEMPERATURE OF 90C AND SHALL BE COVERED BY A HIGH DIELECTRIC STRENGTH ASSEMBLY TAPE. TYPE MC CABLE SHALL BE AS MANUFACTURED BY AFC OR EQUAL.
- A.7. RIGID NON-METALLIC CONDUIT (RNC - PVC SCHEDULE 40): COMPLYING WITH NEMA TC 2 AND UL 651.
- B. COUPLINGS AND TERMINATIONS
- B.1. FOR RIGID STEEL OR INTERMEDIATE METAL CONDUIT: FACTORY-MADE THREADED COUPLINGS OF SAME MATERIAL AS THE CONDUIT.
- B.2. FOR ELECTRICAL METALLIC TUBING: STEEL SET SCREW COUPLINGS; STEEL SET SCREW BOX CONNECTORS WITH NYLON INSULATED THROAT AND LOCKNUTS AT ALL BOXES AND CABINET TERMINATIONS OR NON-INSULATED BOX CONNECTOR, LOCKNUT AND NYLON-INSULATED GROUNDING BUSHING GROUNDING BUSHING ON ALL TUBING WHERE GROUNDING BUSHINGS ARE REQUIRED.
- B.3. FOR FLEXIBLE METAL CONDUIT: COUPLINGS AT CONNECTIONS BETWEEN FLEXIBLE CONDUIT AND EMT, AND NYLON INSULATED THROAT STEEL CONNECTORS AT BOX OR CABINET TERMINATIONS.
- B.4. FOR RIGID NON-METALLIC CONDUIT: LISTED AND LABELED FOR THE TYPE OF CONDUIT, LOCATION, AND USE. COMPLY WITH NEMA TC 3; MATCH TO CONDUIT OR TUBING TYPE AND MATERIAL. SOLVENTS AND ADHESIVES: AS RECOMMENDED BY CONDUIT MANUFACTURER.
- C. JUNCTION AND PULL BOXES
- C.1. SIZE BOXES IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEC. BOXES SHALL BE NO SMALLER THAN 4 INCHES SQUARE BY 1-1/2 INCHES DEEP WITH COVERS ACCESSIBLE AT ALL TIMES. SET BOXES ON CONCEALED CONDUITS WITH COVERS FLUSH WITH THE FINISHED WALL OR CEILING LINE. PROVIDE JUNCTION AND PULL BOXES OF APPROPRIATE DIMENSIONS FOR CONDUITS AND CONDUCTORS NOTED, WHERE SHOWN AND WHERE NECESSARY FOR THE INSTALLATION AND PULLING OF CABLES AND WIRES. INSTALL COVERS ON JUNCTION BOXES AND CONDULETS AFTER WIRING AND CONNECTIONS ARE COMPLETED.
- D. OUTLET BOXES
- D.1. OUTLET BOXES SHALL BE U.L. LISTED, AND OF SIZES AND TYPES REQUIRED FOR THE APPLICATION. OUTLET BOXES SHALL BE SHEET STEEL, NO LIGHTER THAN 14 GAUGE, GALVANIZED AFTER FABRICATION. SET BOX SO FACE OF BOX WILL FINISH FLUSH WITH BUILDING SURFACE.
- D.1.1. FOR LIGHTING FIXTURE OUTLETS: 4 INCH SQUARE BY 1-1/2 INCHES DEEP WITH RAISED FIXTURE RING.
- D.1.2. FOR WALL SWITCHES, RECEPTACLES, AND COMMUNICATION USE: 4 INCH SQUARE, BY 1-1/2 INCHES DEEP. USE BOXES WITH PLASTER RINGS IN ALL PLASTERED WALLS WHERE WALL THICKNESS PERMITS. USE BOXES LESS THAN 1-1/2 INCH DEEP ONLY IN LOCATIONS WHERE DEEP BOXES CANNOT BE ACCOMMODATED BY CONSTRUCTION.
- E. WIREWAY
- E.1. U.L. LISTED; SIZE INDICATED OR REQUIRED; HINGED COVER, SECURED WITH CAPTIVE SCREWS; COMPLETE WITH ALL REQUIRED FITTINGS, COUPLINGS, HANGERS AND ACCESSORIES.

- E.2. CORROSION RESISTANT PRIMER AND ANSI GRAY EPOXY PAINT FINISH. CORROSION RESISTANT BOLTS OR SCREWS. SCREWS OR BOLTS INSTALLED TOWARD THE INSIDE FITTED WITH SPRING NUTS OR OTHERWISE PREVENTED FROM DAMAGING CONDUCTOR INSULATION.
- F. PULL CORDS
- F.1. PROVIDE A NYLON POLYETHYLENE CORD, WITH A TENSILE STRENGTH OF NOT LESS THAN 200 POUNDS, IN EACH EMPTY CONDUIT TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS. INCORPORATE PLASTIC TAGS FOR IDENTIFICATION.
- G. CONDUCTORS
- G.1. CONDUCTORS SHALL BE 98% CONDUCTIVITY SOFT DRAWN ANNEALED COPPER, 600 VOLT, THHN/THWN INSULATION, #12 AND LARGER - STRANDED.
- G.2. NO CONDUCTORS SHALL BE SMALLER THAN NO. 12, EXCEPT FOR SIGNAL OR CONTROL CIRCUITS AND FOR INDIVIDUAL LIGHTING FIXTURE TAPS AS PERMITTED BY NEC.
- G.3. FOR HOME RUNS ON 120-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 100 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.
- G.4. FOR HOME RUNS ON 277-VOLT, 20-AMPERE BRANCH CIRCUITS, WHERE LENGTH OF RUN FROM PANELBOARD TO FIRST OUTLET EXCEEDS 200 LINEAR FEET, USE NO. 10 CONDUCTORS. WHERE LENGTH OF RUN IS 100 LINEAR FEET OR LESS, USE NO. 12 CONDUCTORS.
- H. WIRING DEVICES, COVER PLATES AND ACCESSORIES
- H.1. PROVIDE WIRING DEVICES AND ASSOCIATED ACCESSORIES. DEVICES OF LEVITON, HUBBELL OR PASS & SEYMOUR ARE ACCEPTABLE. SUBMIT FOR REVIEW A COMPLETE LIST OF ANY SUBSTITUTES OFFERED FROM THOSE SPECIFIED.
- H.2. COLOR OF WALL SWITCHES, RECEPTACLES AND FACEPLATES: AS SPECIFIED OR SELECTED BY ARCHITECT/OWNER.
- H.3. WHERE LIGHTING CIRCUITS ARE SHOWN TO BE LINE VOLTAGE SWITCHED, PROVIDE WITH SPECIFICATION GRADE, HORSEPOWER RATED, U.L. LISTED, BACK-AND-SIDE-WIRED, TOGGLE SWITCHES RATED 20-AMP, 120 VOLTS OR 277 VOLTS. SWITCHES SHALL BE SPST, DPST, 3-WAY OR 4-WAY, WITH OR WITHOUT PILOT LIGHT, AS INDICATED ON THE DRAWINGS.
- H.4. RECEPTACLES
- H.4.1. STANDARD WALL RECEPTACLES SHALL BE HOSPITAL GRADE, RATED 20-AMP, 120-VOLT, 2 POLE, 3-WIRE, GROUNDING TYPE, SIDE-WIRED, NEMA 5-20R, EQUAL TO PASS & SEYMOUR 9300-HGI (MATCH EXISTING BUILDING STANDARD).
- H.4.2. SPECIAL PURPOSE RECEPTACLES SHALL BE HOSPITAL GRADE DEVICES FOR THE NEMA CONFIGURATIONS SCHEDULED OR INDICATED ON THE DRAWINGS.
- H.4.3. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES SHALL BE 20 AMP, 120 VOLT, 2 POLE, 3-WIRE, NEMA 5-20R.
- H.4.4. RECEPTACLES ON EMERGENCY POWER SHALL BE RED.
- H.5. MAINTAIN GROUNDING CONTINUITY BETWEEN DEVICES AND METALLIC RACEWAY SYSTEM IN ADDITION TO PROVIDING A GREEN EQUIPMENT GROUNDING CONDUCTOR RUN WITH ALL CIRCUIT CONDUCTORS AS INDICATED ON THE DRAWINGS, EXCEPT CARE SHALL BE TAKEN WHEN INSTALLING RECEPTACLES HAVING ISOLATED GROUND POLE SO AS TO NOT BOND THE EQUIPMENT GROUND CONDUCTOR TO THE CONDUIT SYSTEM.
- H.6. ELECTRICAL CONTRACTOR SHALL LABEL EACH EMERGENCY RECEPTACLE IDENTIFYING THE SPECIFIC ELECTRICAL PANEL AND CIRCUIT THAT SERVES THAT RECEPTACLE.
- I. OVERCURRENT PROTECTIVE DEVICES
- I.1. MOLDED CASE CIRCUIT BREAKERS
- I.1.1. AS MANUFACTURED BY THE MANUFACTURER OF THE PANELBOARD IN WHICH INSTALLED.
- I.1.2. ONE, TWO OR THREE POLE WITH RATINGS INDICATED ON THE DRAWINGS; (STANDARD) OR (HIGH INTERRUPTING) CONSTRUCTION AS REQUIRED BY THE SHORT CIRCUIT RATINGS INDICATED ON THE DRAWINGS.
- I.1.3. QUICK-MAKE, QUICK-BREAK, CALIBRATED FOR OPERATION IN AN AMBIENT TEMPERATURE OF 40c. TRIP INDICATION BY HANDLE POSITION, TRIP-FREE. TWO AND THREE POLE BREAKERS: COMMON TRIP WITH SINGLE OPERATING HANDLE WITHOUT HANDLE TIES, PERMANENT TRIP UNIT CONTAINING INDIVIDUAL THERMAL AND MAGNETIC TRIP ELEMENTS IN EACH POLE. FRAME SIZES GREATER THAN 100 AMPERES: VARIABLE MAGNETIC TRIP ELEMENTS WHICH ARE SET BY A SINGLE ADJUSTMENT.
- I.1.4. REMOVABLE LUGS, UL LISTED FOR COPPER AND ALUMINUM CONDUCTORS. LISTED FOR INSTALLATION OF MECHANICAL OR COMPRESSION TYPE LUGS.
- J. DISCONNECT SWITCHES
- J.1. AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, CUTLER-HAMMER OR SIEMENS.
- J.2. FUSIBLE/NON-FUSIBLE SWITCHES
- J.2.1. ALL SWITCHES: HEAVY DUTY TYPE; U.L. LISTED AND MEET LATEST NEMA STANDARDS KS-1; HORSEPOWER RATED; QUICK-MAKE, QUICK-BREAK; VISIBLE BLADES IN "OFF" POSITION; REMOVABLE ARC SUPPRESSORS; LUGS FRONT REMOVABLE AND U.L. LISTED FOR 75C; ALUMINUM OR COPPER WIRE; OPERATING HANDLE IN CONTROL OF SWITCH WITH DOOR OPEN AND CLOSED; HANDLE POSITION CLEARLY INDICATE "ON" AND "OFF" POSITIONS; PROVISIONS FOR PADLOCKING IN "OFF" POSITION; SAFETY INTERLOCKS TO PREVENT THE ENCLOSURE DOOR FROM BEING OPENED WHILE THE HANDLE IS IN THE "ON" POSITION AND TO PREVENT THE HANDLE FROM BEING TURNED TO THE "ON" POSITION WHILE THE ENCLOSURE DOOR IS OPEN; MEANS TO PERMIT AUTHORIZED PERSONNEL TO RELEASE THE SAFETY INTERLOCKS FOR MAINTENANCE OR INSPECTION; AUXILIARY POLES, AS REQUIRED, TO DISCONNECT CONTROL VOLTAGE(S) WHEN POWER VOLTAGE IS DISCONNECTED.
- J.2.2. ENCLOSURES: NEMA 1 OR NEMA 3R, AS INDICATED ON DRAWINGS; CLEAN STEEL, GALVANIZED AFTER FORMING, PRIMED AND GREY BAKED ENAMEL FINISHED; NEMA 1 COVERS ON PIN TYPE HINGES; NEMA 3R COVERS SECURABLE IN THE OPEN POSITION. INTERCHANGEABLE BOLT-ON THREADED HUBS ON NEMA 3R SWITCHES THRU 200 AMPERE.
- J.2.3. FUSIBLE SWITCHES: FOR 600 AMPERE AND SMALLER SWITCHES, PROVIDE U.L. LISTED REJECTION CLIPS TO REJECT ALL FUSES EXCEPT CLASS R; FOR 800 AMPERE AND LARGER SWITCHES, PROVIDE FUSE CLIPS FOR CLASS L FUSES. ALL SWITCHES U.L. LISTED SHORT CIRCUIT RATING OF 200,000 AMPERES RMS SYMMETRICAL.
- K. GROUNDING
- K.1. GROUNDING SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC.
- K.2. GROUNDING CONDUCTORS SHALL BE ANNEALED COPPER CABLES OF THE SIZES INDICATED OR REQUIRED.
- K.3. A "GREEN WIRE" EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY, WHETHER METALLIC OR NON-METALLIC, TO FORM A COMPLETE AND CONTINUOUS GROUNDING PATH. CONNECT GROUNDING CONDUCTORS TO GROUND TERMINALS AT EACH END OF THE RUN.
- L. LIGHTING FIXTURES
- L.1. INSURE EACH LIGHTING FIXTURE HAS AN OPERATING SET OF LAMPS EQUAL TO EXISTING OR OF THE TYPES SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN. LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, PHILIPS, OR OSRAM/SYLVANIA, EXCEPT WHERE SCHEDULED OTHERWISE.

- L.2. LED LAMPS: IN GENERAL, 48-INCH LENGTH, T-8, RAPID START, ENERGY-SAVING LAMPS; LAMP COLOR AS INDICATED.
- L.3. LED BALLASTS: IN GENERAL, ELECTRONIC TYPE FOR BOTH STANDARD LED AND COMPACT LED; INPUT POWER FACTOR ABOVE 95%, THD LESS THAN 10%; AS MANUFACTURED BY MOTOROLA.
- L.4. PROVIDE A LIGHTING FIXTURE COMPLETE WITH LAMPS, BALLASTS, AND OTHER REQUIRED APPURTENANCES FOR EACH LIGHTING OUTLET SHOWN ON THE DRAWINGS. LIGHT FIXTURES SHALL BE AS DESCRIBED IN THE "LIGHTING FIXTURE SCHEDULE". EACH UNIT SHALL BE FURNISHED WITH ALL MOUNTING AND TRIM ACCESSORIES TO SUIT THE SPECIFIC SERVICES APPLIED. FINISHES SHALL BE FACTORY-STANDARD, EXCEPT WHERE SCHEDULED OTHERWISE.
- L.5. PROVIDE LIGHTING FIXTURES IN ACCORDANCE WITH THE DESIGNATIONS AND DESCRIPTIONS ON THE DRAWINGS. WHERE A SINGLE MANUFACTURER AND ASSOCIATED CATALOG NUMBER IS SCHEDULED, IT IS TO ESTABLISH A DESIRED TYPE AND STANDARD OF QUALITY.
- L.6. LIGHTING FIXTURES SHALL BE UL LABELED.

III. EXECUTION

- A. INSTALLATION OF BUILDING CONDUIT
- A.1. ALL INTERIOR RACEWAYS SHALL BE EMT. RACEWAYS IN DAMP OR WET LOCATIONS, OR IN HAZARDOUS LOCATIONS, SHALL BE GRC OR IMC.
- A.2. CONDUITS SHALL BE OF SUCH SIZE AND SO INSTALLED THAT THE CONDUCTORS MAY BE DRAWN THROUGH WITHOUT INJURY OR EXCESSIVE STRAIN. SHALL BE SECURED AT CABINETS AND BOXES WITH GALVANIZED LOCKNUTS, BOTH INSIDE AND OUTSIDE, AND SHALL HAVE APPROPRIATE BUSHINGS INSIDE. BUSHINGS SHALL BE INSULATING TYPE WITH BOND GROUND CLAMPS.
- A.3. USE LENGTHS OF FLEXIBLE METAL CONDUIT NOT LESS THAN 12 INCHES LONG AT FINAL CONNECTIONS TO ALL MOTORS, TRANSFORMERS AND SIMILAR DEVICES SUBJECT TO MOVEMENT BECAUSE OF VIBRATION OR MECHANICAL ADJUSTMENT. USE FLEXIBLE METAL CONDUITS TO EFFECT FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES. USE LIQUID TIGHT FLEXIBLE METAL CONDUIT, WITH APPROPRIATE CONNECTIONS, IN DAMP OR WET LOCATIONS, AT MOTOR OR EQUIPMENT LOCATIONS IN MECHANICAL EQUIPMENT ROOMS, AT OR NEAR PUMPS, AND WHEN INSTALLED OUTDOORS.
- A.4. GROUND METALLIC CONDUITS AS REQUIRED BY NEC.
- A.5. INSTALL RACEWAYS CONTINUOUS FROM OUTLET TO OUTLET BOX, OR CABINET, WITH A MAXIMUM OF 150 FEET BETWEEN PULLS. IN AREAS WHERE THERE ARE NO SUSPENDED CEILINGS, RUN ALL CONDUITS PARALLEL/PERPENDICULAR TO BUILDING SURFACE PLANES.
- A.6. IN SYSTEMS OPERATING AT MORE THAN 300 VOLTS BETWEEN PHASE CONDUCTORS, AND WHERE DIFFERENT PHASE CONDUCTORS ARE TO BE RUN TO A COMMON GANG WALL SWITCH BOX, PROVIDE SUBSTANTIAL BARRIERS BETWEEN ADJACENT SWITCHES IN THE BOX SO THAT TWO DIFFERENT PHASE WIRES WILL NOT BE IN THE SAME COMPARTMENT.
- A.7. WHEREVER RACEWAYS PASS THROUGH FLOORS, WALLS, PENETRATIONS, OR OTHER PARTITIONS, CAREFULLY FILL ANY SPACE BETWEEN THE OUTSIDE OF THE RACEWAY AND THE BUILDING MATERIAL TO PREVENT PASSAGE OF AIR, WATER, SMOKE, AND FUMES. FILLING MATERIAL SHALL BE A UL LISTED, INTUMESCENT SEALING HAVING FIRE/SMOKE RESISTIVE RATING EQUAL TO THE BUILDING MATERIAL PENETRATED.
- A.8. TYPE MC, METAL CLAD CABLES SHALL BE ACCEPTABLE TO BE INSTALLED IN WALLS AND CEILINGS IN CONFORMANCE WITH THE REQUIREMENTS OF CURRENT NATIONAL ELECTRICAL CODE (NEC) ADOPTED BY LOCAL CITY ORDINANCE. TYPE MC CABLE SHALL BE USED ONLY FOR BRANCH CIRCUITS, FOR LIGHTING, AND HVAC VAV BOXES. TYPE MC CABLE SHALL NOT BE USED FOR FEEDERS OR MULTIPLE BRANCH CIRCUIT HOMERUNS, AND MORE SPECIFICALLY, SHALL NOT BE USED FOR POWER CIRCUITS, AND KITCHEN EQUIPMENT BRANCH CIRCUITS. TYPE MC CABLE SHALL NOT BE UTILIZED WITHIN ELECTRICAL EQUIPMENT ROOMS. CABLE SHALL TRANSITION TO A RIGID TYPE CONDUIT PRIOR TO ENTERING ELECTRICAL EQUIPMENT ROOMS.
- A.9. CONDUITS UTILIZED THROUGHOUT THE PROJECT SHALL NOT BE SMALLER THAN 3/4 INCH FOR FEEDERS, MULTIPLE BRANCH CIRCUIT HOMERUNS AND HOMERUNS OF CONDUCTORS LARGER THAN NO. 12. INDIVIDUAL BRANCH CIRCUIT WIRING FOR NO. 12 CONDUCTORS SHALL BE ACCEPTABLE IN 1/2" CONDUIT, I.E. 2#12, 1#12G, 1/2"C.
- B. INSTALLATION OF PULL AND JUNCTION BOXES
- B.1. FASTEN ALL BOXES SECURELY TO THE BUILDING CONSTRUCTION, INDEPENDENT OF CONDUIT SYSTEMS.
- B.2. ON CONCEALED CONDUIT SYSTEMS WHERE BOXES ARE NOT OTHERWISE ACCESSIBLE, SET BOXES FLUSH WITH FINISHED SURFACES FOR ACCESS, AND PROVIDE OVERLAPPING COVERS.
- C. INSTALLATION OF OUTLET BOXES
- C.1. TERMINATE CONDUITS AT A METAL OUTLET BOX AT EACH OUTLET OR DEVICE. ALL BOXES SHALL CONFORM TO THE NEC.
- C.2. OUTLET BOXES SHALL BE SUPPORTED INDEPENDENT OF THE CONDUIT SYSTEM.
- D. INSTALLATION OF CONDUIT HANGERS AND SUPPORTS
- D.1. FURNISH AND INSTALL ALL HANGERS AND SUPPORTS REQUIRED BY RACEWAY SYSTEMS.
- D.2. SUPPORT ALL ABOVE-GROUND ELECTRICAL CONDUITS FROM THE BUILDING STRUCTURE/CONSTRUCTION. SUPPORT CONDUITS RUNNING VERTICALLY OR HORIZONTALLY ALONG WALLS WITH GALVANIZED MALLEABLE IRON ONE-HOLE CLAMPS. CARRY INDIVIDUALLY SUPPORTED HORIZONTAL CONDUITS 1-1/4 INCH AND LARGER ON SUITABLE HANGERS.
- D.3. LOCATE HANGERS AND TRAPEZES TO SUPPORT HORIZONTAL RACEWAYS WITHOUT APPRECIABLE SAGGING. HANGER SPACING SHALL NOT EXCEED NEC REQUIREMENTS, OR RECOMMENDATIONS OF THE NECA "STANDARD OF INSTALLATION".
- D.4. WHERE CONDUITS SMALLER THAN 1-1/4 INCH ARE INSTALLED ABOVE REMOVABLE TYPE DRY CEILINGS, SUPPORT THEM ON SUITABLE HANGER RODS WITH METAL CLIPS AT A DISTANCE ABOVE THE CEILING SUFFICIENT TO PERMIT REMOVAL OF CEILING PANELS AND LAY-IN LIGHT FIXTURES. LOCATE SUCH CONDUITS SO AS NOT TO HINDER ACCESS TO MECHANICAL EQUIPMENT THROUGH CEILING PANELS.
- E. INSTALLATION OF CONDUCTORS
- E.1. PULL NO CONDUCTORS INTO CONDUITS UNTIL ALL WORK OF A NATURE WHICH MAY CAUSE INJURY TO CONDUCTORS IS COMPLETED.
- E.2. RUN FEEDERS IN CONTINUOUS PIECES, WITHOUT JOINTS OR SPLICES, INSOFAR AS PRACTICABLE.
- E.3. RUN CONDUITS FOR EMERGENCY POWER CONDUCTORS SEPARATE FROM ALL OTHER WIRING.
- F. SEGREGATION OF WIRING SYSTEMS
- F.1. SEGREGATION OF WIRING SYSTEMS SHALL NOT BE COMPROMISED BY THE USE OF COMMON PULLBOXES, WIREWAYS, CABINETS OR ANY OTHER TYPE OF ENCLOSURE.
- F.2. THE RACEWAY SYSTEM FOR EACH FEEDER SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS.
- F.3. THE RACEWAY SYSTEM FOR THE BRANCH CIRCUITS OF EACH PANELBOARD SHALL BE A SEPARATE SYSTEM COMPLETELY FAULT ISOLATED FROM ALL OTHER RACEWAY SYSTEMS.
- G. EXISTING SYSTEMS TO REMAIN
- G.1. THE CONTRACT DOCUMENTS DO NOT PROPOSE TO SHOW ALL EXISTING SYSTEMS, MATERIAL OR EQUIPMENT. OBTAIN DATA RELATED TO EXISTING CONDITIONS FROM EXISTING DOCUMENTS, MEASUREMENTS, NOTATIONS, PHOTOGRAPHS, SURVEYS AND OTHER OBSERVATIONS AT THE SITE.
- G.2. REMOVE EXISTING WIRE, CONDUIT, EQUIPMENT, FIXTURES AND OTHER ITEMS TO PROVIDE ACCESS

- FOR WORK IN EXISTING FACILITIES. REINSTALL AND REFINISH ITEMS REMOVED, OR OTHERWISE DAMAGED, TO MATCH EXISTING ADJACENT SURFACED UPON COMPLETION OF THE WORK.
- G.3. WHERE EXISTING FUNCTIONS TO REMAIN IN USE ARE DISRUPTED, THEY SHALL BE FULLY RESTORED AFTER DISRUPTION, IN FULL COMPLIANCE WITH THIS DIVISION OF THE SPECIFICATIONS FOR NEW WORK.
- G.4. MODIFY, REMOVE OR RELOCATE MATERIALS AND ITEMS INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW WORK.
- G.5. WORKING JOINTLY WITH THE ARCHITECT, ESTABLISH AND MARK SALVAGE AND DEMOLITION ITEMS BEFORE COMMENCING WORK; REPORT ITEMS SCHEDULED FOR RELOCATION, REINSTALLATION OR REUSE, WHICH ARE FOUND TO BE IN DAMAGED CONDITION; AWAIT FURTHER INSTRUCTIONS FROM THE ARCHITECT BEFORE COMMENCING WITH WORK.
- G.6. DEMOLITION EQUIPMENT, DEVICES AND MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR. SALVAGED EQUIPMENT AND DEVICES SHALL BE THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE.
- G.7. MAKE MINOR RELOCATIONS NECESSITATED BY THE CONDITIONS AT THE SITE OR AS DIRECTED BY THE ARCHITECT, WITHOUT ADDITIONAL COST TO THE OWNER. REPAIR AND RESTORE TO GOOD FUNCTIONAL CONDITION, EQUIPMENT, MATERIALS AND ITEMS SCHEDULED FOR RELOCATION, WHICH ARE DAMAGED DURING DISMANTLING OR REASSEMBLY OPERATIONS. NEW MATERIALS AND ITEMS OF SIMILAR DESIGN AND QUALITY MAY BE SUBSTITUTED FOR MATERIALS AND ITEMS INDICATED TO BE RELOCATED UPON APPROVAL OF SHOP DRAWINGS, PRODUCT DATA AND SAMPLES. REMOVE CAREFULLY, IN REVERSE ORDER TO ORIGINAL ASSEMBLY OR PLACEMENT, ITEMS WHICH ARE TO BE RELOCATED. PROTECT ITEMS UNTIL RELOCATION IS COMPLETE. CLEAN AND REPAIR ITEMS TO BE RELOCATED, AND PROVIDE NEW MATERIALS, FITTINGS AND APPURTENANCES REQUIRED TO COMPLETE THE RELOCATIONS AND TO RESTORE TO GOOD OPERATING ORDER. PERFORM THE RELOCATION WORK IN ACCORDANCE WITH APPLICABLE PORTIONS OF THESE SPECIFICATIONS, UTILIZING SKILLED WORKERS.
- G.8. RELOCATING DEVICES: REMOVE AND REINSTALL IN LOCATIONS DESIGNATED BY THE ARCHITECT TEMPERATURE CONTROL SYSTEM DEVICES, RELAYS, WIRE, CONDUIT, FIXTURES, EQUIPMENT AND OTHER DEVICES REQUIRED FOR THE OPERATION OF THE VARIOUS SYSTEMS THAT ARE INSTALLED IN EXISTING-TO-BE-REMOVED CONSTRUCTION.

H. CONTRACTOR RESPONSIBILITIES

- H.1. CONTRACTOR SHALL KEEP A CLEAN SET OF DRAWINGS ON THE JOB, NOTING DAILY ALL CHANGES MADE IN THESE DRAWINGS IN CONNECTION WITH THE FINAL INSTALLATION INCLUDING EXACT DIMENSIONED LOCATIONS OF ALL NEW AND UNCOVERED EXISTING UTILITIES AND SHALL, WITH HIS REQUEST FOR FINAL PAYMENT, TURN OVER A CLEAN, NEATLY MARKED SET OF REPRODUCIBLE MYLARS SHOWING "AS INSTALLED" WORK TO THE ARCHITECT FOR SUBSEQUENT REVIEW AND TRANSMITTAL TO THE OWNER. CONTRACTOR SHALL NOTE ALL CONSTRUCTION CHANGES, DATE EACH SHEET AND LABEL "AS-BUILT" IN THE REVISION BLOCK ON THE DRAWINGS. CONTRACTOR SHALL ALSO FURNISH ONE (1) SET OF "AS-BUILT" BLUELINE PRINTS.
- H.2. IN ADDITION TO THE ABOVE, CONTRACTOR SHALL ACCUMULATE DURING THE JOB'S PROGRESS, THE FOLLOWING DATA, IN TRIPLICATE, PREPARED IN A NEAT BROCHURE OR PACKET FOLDER AND TURNED OVER TO THE ARCHITECT FOR REVIEW AND SUBSEQUENT DELIVERY TO THE OWNER.
- H.2.1. ALL WARRANTIES AND GUARANTEES AND MANUFACTURER'S DIRECTIONS ON EQUIPMENT AND MATERIAL COVERED BY THE CONTRACT INCLUDING THE NAMES, ADDRESSES AND TELEPHONE NUMBERS OF THE MANUFACTURER'S REPRESENTATIVE.
- H.2.2. APPROVED FIXTURE BROCHURES, WIRING DIAGRAMS AND CONTROL DIAGRAMS (ORIGINAL DATA, NO COPIES).
- H.2.3. COPIES OF APPROVED SHOP DRAWINGS.
- H.2.4. OPERATING INSTRUCTIONS FOR ALL ELECTRICAL SYSTEM EQUIPMENT. OPERATING INSTRUCTIONS SHALL ALSO INCLUDE RECOMMENDED MAINTENANCE PROCEDURES.
- H.2.5. TEST REPORTS REQUIRED BY THESE SPECIFICATIONS.
- H.2.6. ANY AND ALL OTHER DATA AND/OR DRAWINGS REQUIRED DURING CONSTRUCTION.
- H.2.7. REPAIR PARTS LISTS OF ALL MAJOR ITEMS OF EQUIPMENT INCLUDING NAME, ADDRESS AND TELEPHONE NUMBERS OF LOCAL SUPPLIER OR AGENT.
- H.3. ALL OF THE ABOVE DATA SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AT SUCH TIME AS THE CONTRACTOR SUBMITS HIS LAST ESTIMATE PRIOR TO HIS FINAL PAYMENT, BUT IN NO CASE, LESS THAN TWO WEEKS BEFORE FINAL INSPECTION.
- H.4. NORMAL FUNCTIONS OF OCCUPIED AREAS MUST CONTINUE DURING THE CONSTRUCTION PHASES. EVERY EFFORT SHALL BE MADE TO INSURE SUCH FUNCTIONS ARE NOT DISTURBED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF TEMPORARY SYSTEMS AS REQUIRED TO MAINTAIN THE FUNCTIONS OF OCCUPIED AREAS.

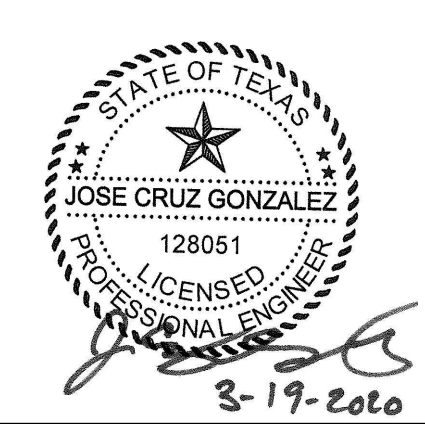
HCSO BUS BARN
HIDALGO COUNTY CONTRACT
#C-18-142-05-08
EDINBURG, TX 78641



HALFF

5000 WEST MILITARY, SUITE 100
MCALLEN, TEXAS 78103
TEL: (361) 664-4822
FAX: (361) 664-4822
TBE PERM #1-572

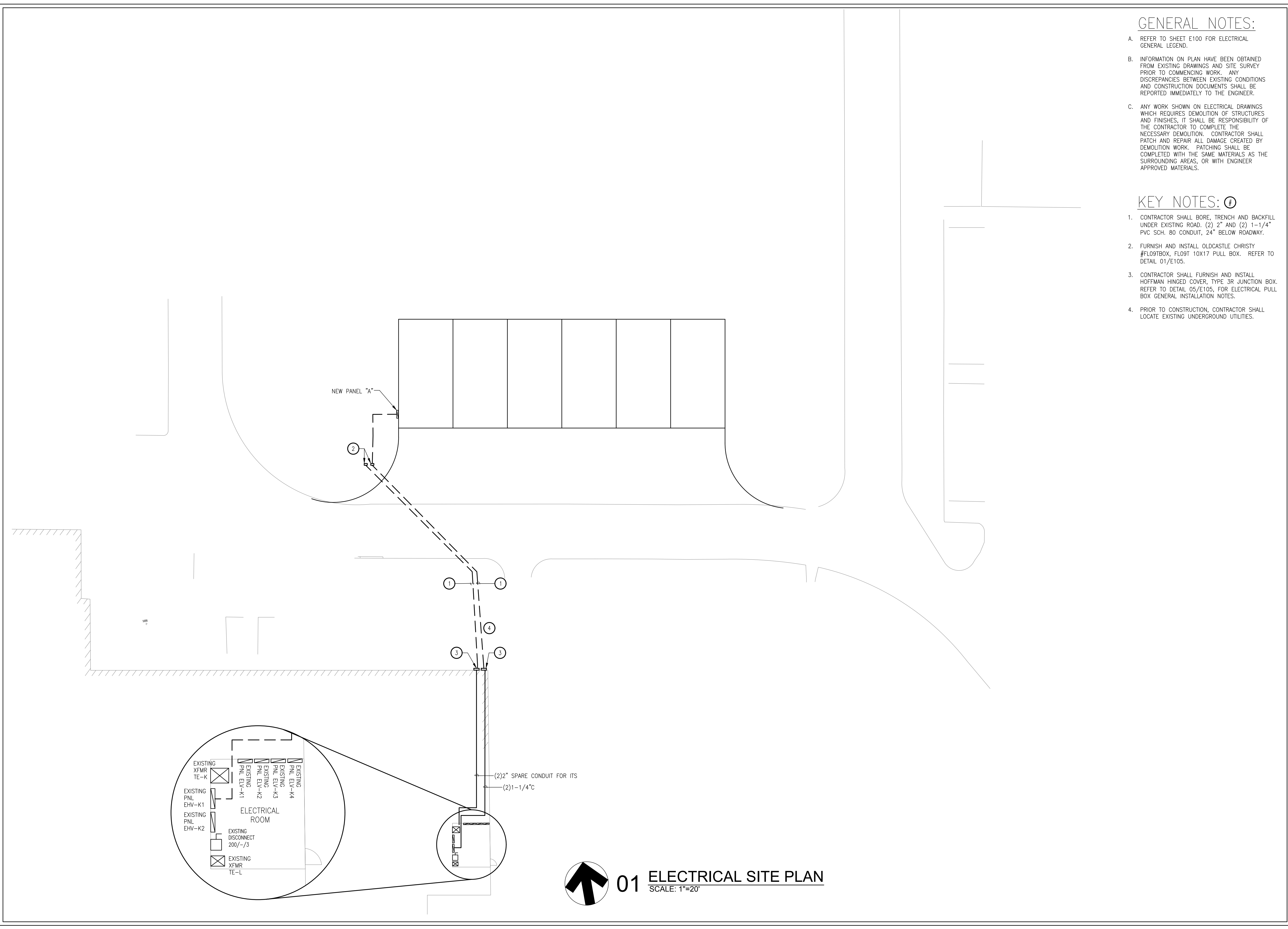
Revision No.	Date	Description



Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	G.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title	ELECTRICAL SPECIFICATIONS
E001	Sheet Number

File Name: i:\34000s\34015\004\WED\CADD\ET100-ES-34015.004.dwg
Current: Job (Loyola) ELECTRICAL SPECIFICATIONS User: AH1497
Printed Date: 3/19/2020 3:02:27 PM

File Name: i:\34000s\34015\00A\WEP\CADD\E101-SR-34015.004.dwg
 Current Tab (Layout): ELECTRICAL SITE PLAN User: AH1497
 Printed Date: 3/19/2020 3:10:36 PM



GENERAL NOTES:

- A. REFER TO SHEET E100 FOR ELECTRICAL GENERAL LEGEND.
- B. INFORMATION ON PLAN HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- C. ANY WORK SHOWN ON ELECTRICAL DRAWINGS WHICH REQUIRES DEMOLITION OF STRUCTURES AND FINISHES, IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGE CREATED BY DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ENGINEER APPROVED MATERIALS.

KEY NOTES: ⓘ

- 1. CONTRACTOR SHALL BORE, TRENCH AND BACKFILL UNDER EXISTING ROAD. (2) 2" AND (2) 1-1/4" PVC SCH. 80 CONDUIT, 24" BELOW ROADWAY.
- 2. FURNISH AND INSTALL OLDCASTLE CHRISTY #FLO9TBOX, FLO9T 10X17 PULL BOX. REFER TO DETAIL 01/E105.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL HOFFMAN HINGED COVER, TYPE 3R JUNCTION BOX. REFER TO DETAIL 05/E105, FOR ELECTRICAL PULL BOX GENERAL INSTALLATION NOTES.
- 4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES.

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541



HALFF
 5000 WEST MILITARY, SUITE 100
 McALLEN, TEXAS 78503
 TEL: (361) 664-4822
 FAX: (361) 664-4822
 TBE FIRM #1372

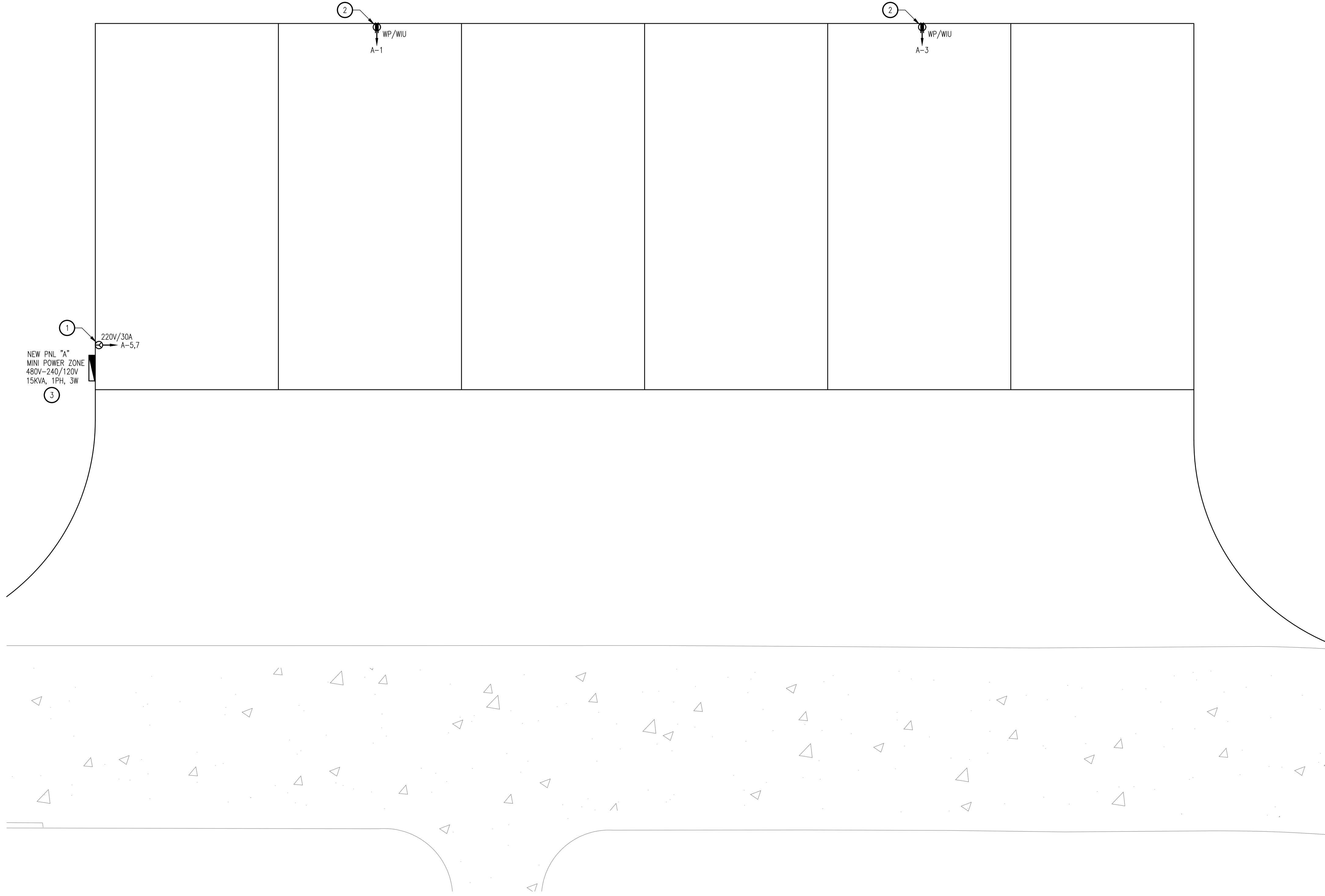
Revision No.	Date	Description



Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	G.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title	ELECTRICAL SITE PLAN
Sheet Number	E101

01 ELECTRICAL SITE PLAN
 SCALE: 1"=20'

File Name: i:\34000s\34015\004\WEP\CADD\E100-PW-34015.004.dwg
 Current Tab (Layout): ELECTRICAL POWER PLAN User: AH1497
 Printed Date: 3/19/2020 3:10:41 PM



GENERAL NOTES:

- A. REFER TO SHEET E100 FOR ELECTRICAL GENERAL LEGEND.
- B. REFER TO SHEET E104 FOR ELECTRICAL SCHEDULES AND ONE-LINE DIAGRAM.

KEY NOTES: ①

- 1. CONTRACTOR SHALL FURNISH AND INSTALL 220V/30A SPECIAL PURPOSE RECEPTACLE.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE. REFER TO SHEET E105 FOR RECEPTACLE WIRING DIAGRAM AND GROUNDING DETAIL.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL NEW MINI POWER-ZONE UNIT SUBSTATION OF 15KVA REFER TO SHEET E104 FOR ONE LINE DIAGRAM.

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78641



Revision No.	Date	Description



01 ELECTRICAL POWER PLAN
 SCALE: 1/8" = 1'-0"

Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	G.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title:	ELECTRICAL POWER PLAN
Sheet Number:	E102

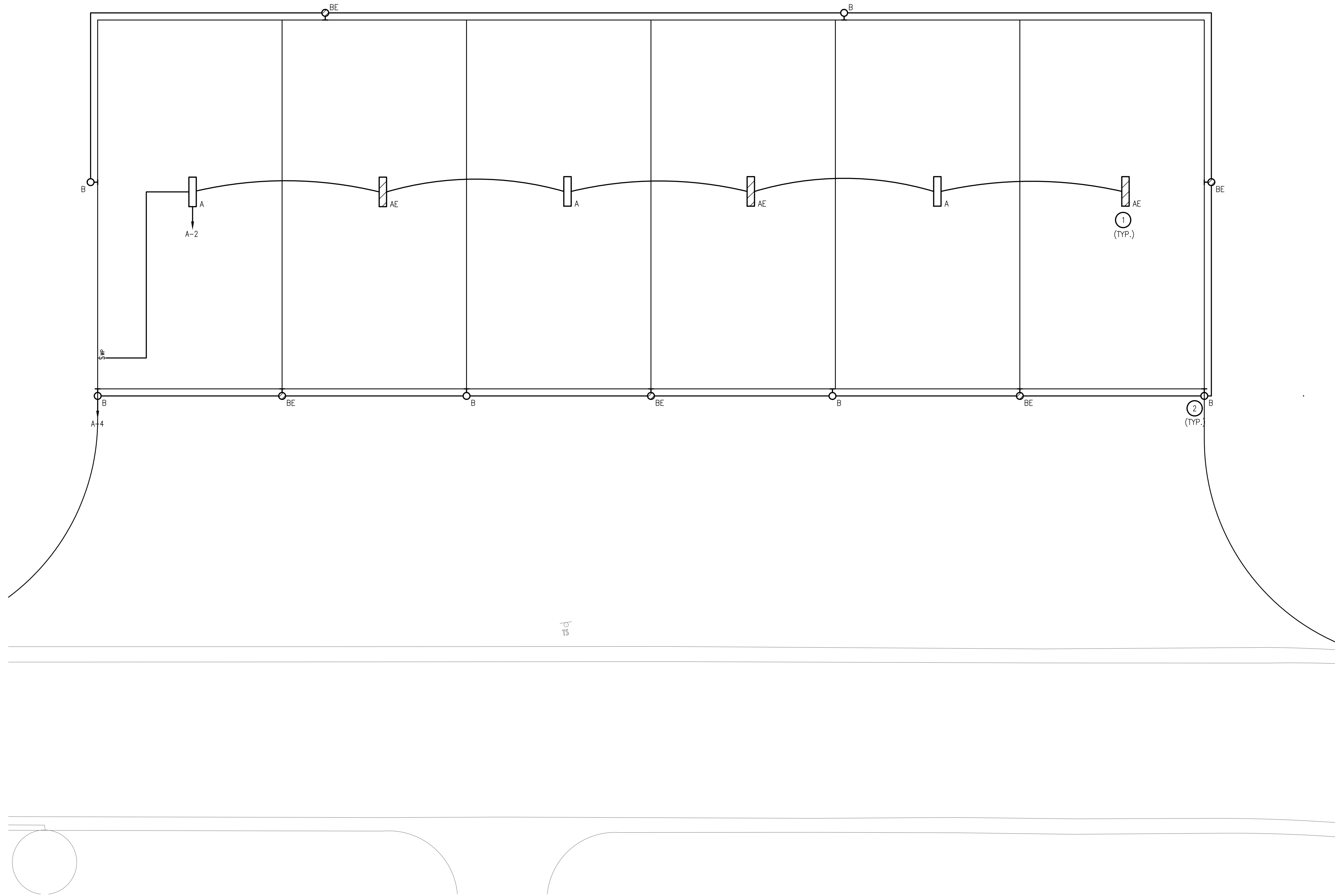
File Name: i:\34000s\34015\004\MEP\CADD\E102-LT-34015.004.dwg
 Current Tab (Layout): ELECTRICAL LIGHTING PLAN User: AH1497
 Printed Date: 3/19/2020 3:10:47 PM

GENERAL NOTES:

- A. REFER TO SHEET E100 FOR ELECTRICAL GENERAL LEGEND.
- B. REFER TO SHEET E104 FOR LIGHTING FIXTURE SCHEDULE AND ONE-LINE DIAGRAM.

KEY NOTES: ①

- 1. CONTRACTOR SHALL FURNISH AND INSTALL ENCLOSED INDUSTRIAL GRADE LIGHTING FIXTURES. LIGHTING FIXTURES TO BE MOUNTED TO STRUCTURE. REFER TO SHEET E104 FOR LIGHTING FIXTURE SCHEDULE.
- 2. CONTRACTOR SHALL FURNISH AND INSTALL LED WALL LIGHTING FIXTURE. LIGHTING FIXTURES TO BE MOUNTED TO FRONT END OF ENTRANCE TO BAY. REFER TO CIVIL PLANS FOR MOUNTING PURPOSES.



HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541



HALFF
 5000 WEST MILITARY, SUITE 100
 McALLEN, TEXAS 78503
 TEL: (361) 664-4282
 FAX: (361) 664-4282
 TBP# FIRM #1372

Revision No.	Date	Description



01 ELECTRICAL LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	G.C./A.A.
Checked By:	J.G.
Scale:	AS NOTED
Sheet Title:	ELECTRICAL LIGHTING PLAN
Sheet Number:	E103

LIGHTING FIXTURE SCHEDULE

TYPE	MANUF & MODEL NUMBER	LAMPS	VA	VOLTAGE	DESCRIPTION	NOTES
A	LITHONIA #DMWZ-L24-4000LM-ACL-MD-MVOLT-GZ1-40K-80CRI-QMB	LED	40	120	ENCLOSED INDUSTRIAL	
AE	LITHONIA #DMWZ-L24-4000LM-ACL-MD-MVOLT-GZ1-40K-80CRI-E10WCP-QMB	LED	40	120	ENCLOSED INDUSTRIAL PROVIDE WITH EMERGENCY BATTERY PACK	
B	LITHONIA # WDGES3 LED-P3-P3SW-40K-80CRI-VW-MVOLT-BBW-PE-XX	LED	39	120	WALLPACK PROVIDE WITH PHOTOCELL	
BE	LITHONIA # WDGES3 LED-P3-P3SW-40K-80CRI-VW-MVOLT-BBW-PE-E10WH-XX	LED	39	120	WALLPACK PROVIDE WITH PHOTOCELL PROVIDE WITH EMERGENCY BATTERY PACK	

PANELBOARD A

VOLTAGE: 480-240/120 VOLT 1 PHASE 3 WIRE LOCATION: EXTERIOR NEMA 3R
 80A MAIN CIRCUIT BREAKER MOUNTING: SURFACE
 BUSES: MAIN - 100 A; 100% NEUTRAL; EQUIPMENT GROUND I_{sc} = 10,000 A RMS SYM AVAILABLE

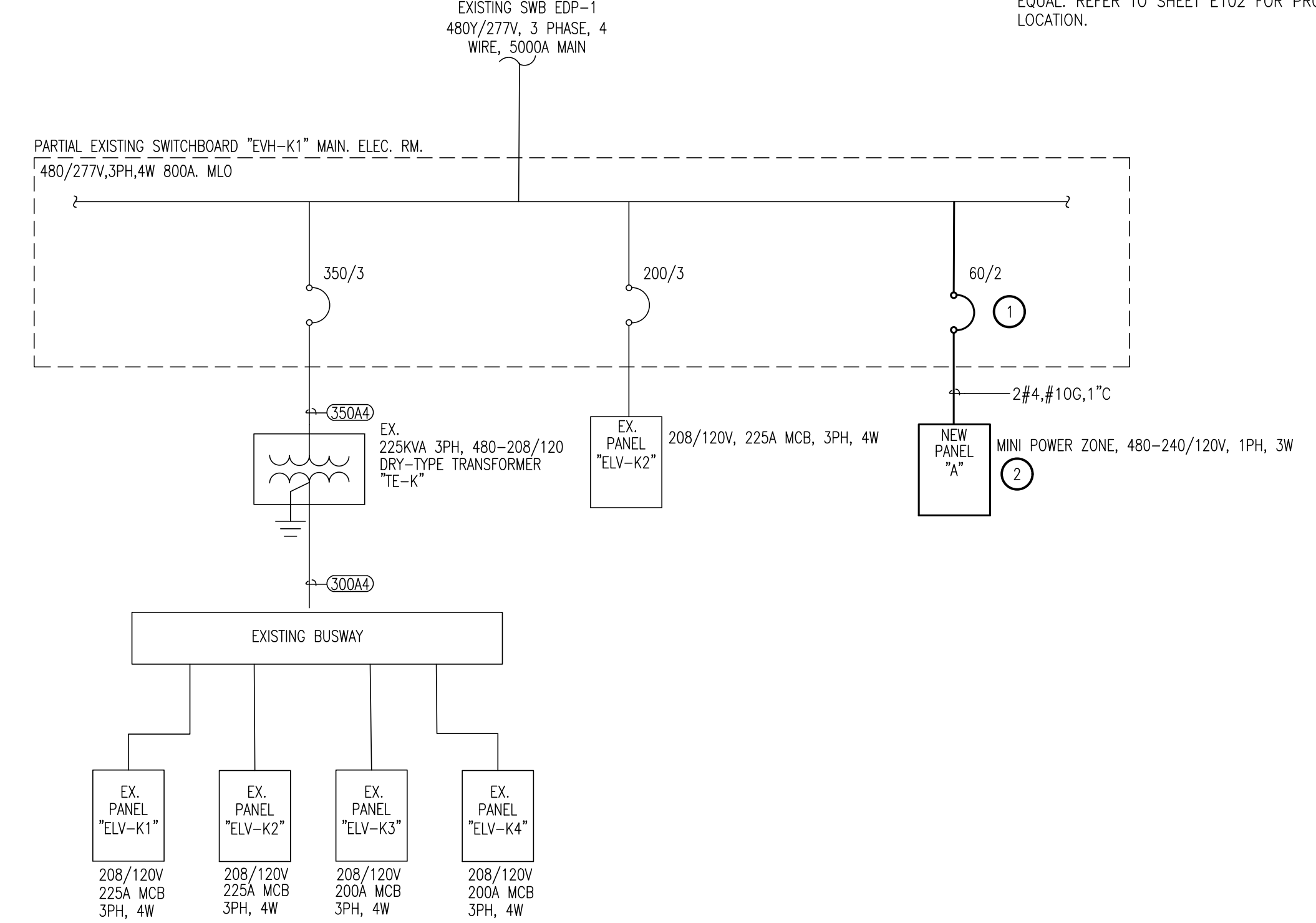
VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	180		RECEPTACLE	20/1	1	A	2	20/1	LIGHTING	240	0	
0	180		RECEPTACLE	20/1	3	B	4	20/1	EXTERIOR LIGHTING	390	0	
0	2430		RECEPTACLE	30/2	5	A	6	20/1	SPACE	0	0	
0	2430		"	-	7	B	8	20/1	SPACE	0	0	
0	0		SPARE	20/1	9	A	10	20/1	SPACE	0	0	
0	0		SPARE	20/1	11	B	12	20/1	SPACE	0	0	
0	0		SPARE	20/1	13	A	14	20/1	SPACE	0	0	
0	0		SPARE	20/1	15	B	16	20/1	SPACE	0	0	
0	0		SPARE	20/1	17	A	18	20/1	SPACE	0	0	
0	0		SPARE	20/1	19	B	20	20/1	SPACE	0	0	
0	0		SPARE	20/1	21	A	22	20/1	SPACE	0	0	
0	0		SPARE	20/1	23	B	24	20/1	SPACE	0	0	

VA:L (LIGHTING)	630	CONNECTED	788	DEMAND
VA:R (RECEPTACLES)	5220	CONNECTED	5220	DEMAND
VA:O (OTHER)	0	CONNECTED	0	DEMAND
VA: TOTAL	5850	CONNECTED	6008	DEMAND
AMPS: TOTAL	24	CONNECTED	25	DEMAND

L	R	O	TOTAL	VA =	AMPS CONNECTED TO A PHASE @ 120 VOLTS
240	2610	0	2850	VA =	24
390	2610	0	3000	VA =	25
630	5220	0	TOTAL	VA	

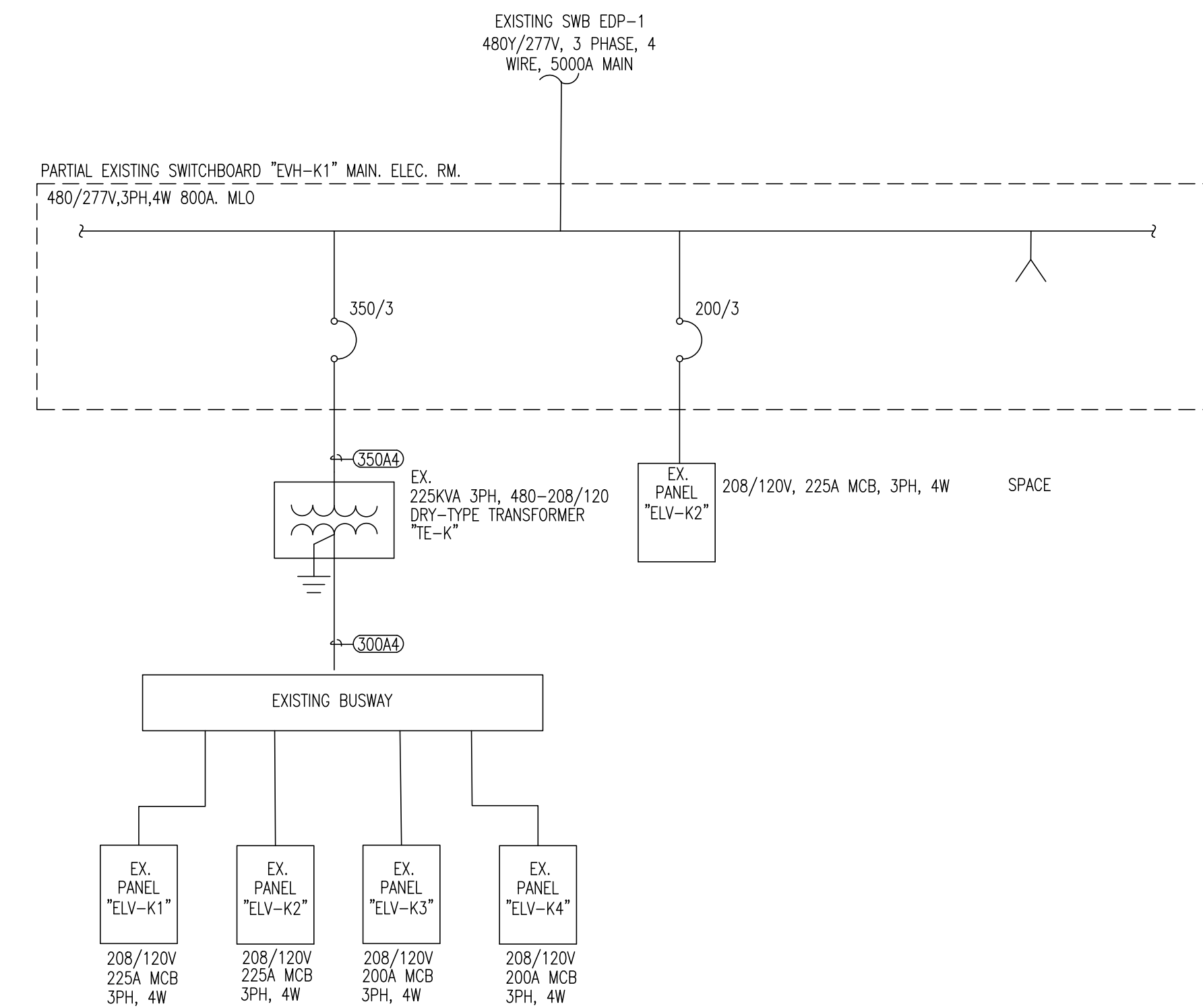
KEY NOTES: ①

- FURNISH AND INSTALL NEW 60A/2P BREAKER IN EXISTING SPACE. CIRCUIT BREAKER TO MATCH EXISTING SHORT CIRCUIT RATING.
- FURNISH AND INSTALL NEW MINI POWER-ZONE UNIT SUBSTATION, SQUARE D #MPZB15540F OR EQUAL. REFER TO SHEET E102 FOR PROPOSED LOCATION.



02 PROPOSED PARTIAL ONE-LINE DIAGRAM

N.T.S.



01 EXISTING PARTIAL ONE-LINE DIAGRAM

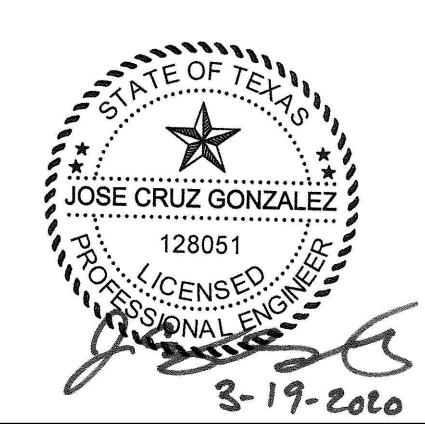
N.T.S.

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541



HALFF
 5000 WEST MILITARY, SUITE 100
 McALLEN, TEXAS 78503
 PHONE: 361-2222
 FAX: 361-664-0822
 TBP# FIRM # 5172

Revision No.	Date	Description



Project No.: 34015.004
 Issued: 03/19/2020
 Drawn By: G.C./A.A.
 Checked By: J.G.
 Scale: AS NOTED
 Sheet Title: ELECTRICAL SCHEDULES

E104

Sheet Number

File Name: i:\34000s\34015\00A\WEP\CADD\E103-SC-34015.004.dwg
 Current Tab (Layout): ELECTRICAL SCHEDULES User: JHT497
 Printed Date: 3/19/2020 3:10:54 PM

GENERAL NOTES

THE GENERAL NOTES SHALL APPLY TO ALL MECHANICAL, ELECTRICAL AND PLUMBING (MEP) DRAWINGS.

THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH ALL CONDITIONS AS THEY EXIST. SUBMISSION OF BID INDICATES THE CONTRACTOR'S UNDERSTANDING OF EXISTING CONDITIONS AND HIS WILLINGNESS TO WORK WITH THESE CONDITIONS. NO ADDITIONAL TIME OR MONEY WILL BE ALLOTTED DUE TO LACK OF COORDINATION WITH EXISTING CONDITIONS OR OTHER TRADES. ALL CONTRACTORS SHALL COORDINATE THROUGH THE PROJECT CONSTRUCTION MANAGER.

ALL WORK SHALL COMPLY WITH THE APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND ORDINANCES. FOLLOW RECOMMENDED PRACTICES AS SET DOWN BY ASME, SMACNA, ASHRAE, NFPA, INTERNATIONAL BUILDING CODE, INTERNATIONAL PLUMBING CODE, NATIONAL ELECTRICAL CODE, OSHA, AS THEY APPLY TO THIS CONTRACT, EXCEPT IN CASES WHERE STATUTES GOVERN.

ALL CONTRACTORS SHALL COORDINATE THROUGH THE PROJECT CONSTRUCTION MANAGER.

BEFORE ANY CUTTING OR TRENCHING OPERATIONS BEGIN, VERIFY THAT OWNER'S REPRESENTATIVE UTILITY COMPANIES, AND OTHER INTERESTED PARTIES THAT ALL AVAILABLE INFORMATION HAS BEEN PROVIDED CONCERNING EXISTING UTILITY LOCATION. VERIFY LOCATIONS GIVEN. CONTACT ARCHITECT UPON UNCOVERING UNKNOWN UTILITIES FOR FUTURE DIRECTION. INDICATE ALL UNCOVERED UTILITIES ON RECORD DRAWINGS. COORDINATE ALL UTILITY TIE-INS WITH OWNER.

COORDINATE LOCATION OF ALL EQUIPMENT, ECT. WITH ALL OTHER TRADES.

THE CONTRACTORS SHALL COORDINATE PIPING, CONDUIT, AND EQUIPMENT SUPPORTS WITH THE CEILING INSTALLATION ON BOTTOM OF STRUCTURE. SEAL ALL PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE FIRE ASSEMBLY.

THE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GC IS RESPONSIBLE FOR COORDINATING WITH ALL OTHER TRADES AND WITH EXISTING CONDITIONS. THE CONTRACTOR SHALL NOT INSTALL OR FABRICATE ANY WORK SHOWN UNTIL ALL WORK IS FULLY COORDINATED. NOT ALL OFFSETS AND FITTINGS ARE SHOWN. PROVIDE OFFSETS AND FITTINGS REQUIRED BY FIELD CONDITIONS AT NO ADDITIONAL COSTS TO THE OWNER.

CUT, PATCH AND RESTORE ALL EXISTING SURFACES NOT RECEIVING NEW FINISHES OR DISTURBED DURING EXECUTION OF THE WORK. MATERIALS AND FINISHES USED SHALL BE SIMILAR TO ADJACENT SURFACES AND THE COMPLETE REPAIR SHALL MEET THE APPROVAL OF THE ARCHITECT AND THE OWNER'S REPRESENTATIVE.

THE CONTRACTOR SHALL VERIFY EXACT MEASUREMENTS AT THE JOB SITE AND COORDINATE WITH EXISTING CONDITIONS WHERE INSUFFICIENT DETAIL AND DIMENSIONS ARE AVAILABLE.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE REQUIRED PERMITS AND PROVIDING THE LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PERFORM TESTING AND INSPECTIONS.

DO NOT SUPPORT CEILINGS OR OTHER BUILDING STRUCTURES FROM DUCTWORK, PIPES OR CONDUIT. DO NOT ALLOW PIPES OR CONDUITS TO DIRECTLY TOUCH BUILDING WALLS, FLOORS OR STRUCTURE AT ANY LOCATION.

THE WORD "PROVIDE" MEANS TO FURNISH AND INSTALL COMPLETE AND READY TO USE.

THE INTENT OF THE PLANS IS TO PROVIDE A COMPLETE AND OPERABLE SYSTEM INSTALLED IN A WORKMAN LIKE MANNER.

A COMPLETE AND OPERABLE SYSTEM SHALL BE DEFINED AS ONE WHICH HAS BEEN FURNISHED, MOUNTED, INSTALLED, PLACED IN OPERATION, BALANCED FOR AIR AND WATER, TESTED FOR CONFORMANCE TO THE RATED CAPACITIES CORRESPONDING TO THE CONTRACT DOCUMENTS (UNLESS OTHERWISE NOTED BY THE ENGINEER ON THE REVIEW COMMENT SHEET OF THE SUBMITTED SHOP DRAWINGS), INSTALLED AND ADJUSTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, TESTED FOR SEQUENCE OF CONTROL INCLUDING FAIL SAFE AND LIFE SAFETY CONSIDERATIONS, AND MADE AVAILABLE IN A CLEAN CONDITION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE AND COORDINATE THE EXISTING MEP SYSTEMS WITH THE NEW MEP SYSTEM REQUIREMENTS OF THIS PROJECT.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EQUIPMENT WIRING AS DELINEATED ON THE ELECTRICAL DRAWINGS AND IN THE ELECTRICAL SPECIFICATIONS UNLESS OTHERWISE INDICATED.

THE CONTRACTOR SHALL PROTECT ALL WORK AND MATERIAL FROM DAMAGE BY HIS WORK. WORKMEN, SUBCONTRACTOR'S WORK OR SUBCONTRACTOR'S WORKMEN AND SHALL BE LIABLE FOR ALL DAMAGE THUS CAUSED.

EQUIPMENT HAS BEEN CHOSEN WHICH WILL FIT INTO THE PHYSICAL SPACES PROVIDED AND INDICATED, ALLOWING AMPLE ROOM FOR ACCESS, SERVICING, REMOVAL AND REPLACEMENT OF PARTS, ETC. ADEQUATE SPACE SHALL BE ALLOWED FOR CLEARANCE IN ACCORDANCE WITH THE CODE REQUIREMENTS AND THE REQUIREMENTS OF THE LOCAL INSPECTION DEPARTMENT. HOWEVER, SINCE SPACE REQUIREMENTS AND EQUIPMENT ARRANGEMENT VARY ACCORDING TO EACH MANUFACTURER, THE RESPONSIBILITY FOR INITIAL ACCESS AND PROPER FIT RESTS WITH THE CONTRACTOR.

ALL EQUIPMENT SUPPLIED FOR THIS CONTRACT SHALL BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND TITLE, AND SHALL BE OF THE KIND AND QUALITY DESCRIBED HEREIN. IF IT APPEARS WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE OF FINAL COMPLETION BY THE OWNER THAT THE EQUIPMENT DOES NOT MEET THE WARRANTIES SPECIFIED ABOVE, THE CONTRACTOR SHALL CORRECT ANY DEFECT, INCLUDING NONCONFORMANCE WITH THESE SPECIFICATIONS.

UNLESS SPECIFICALLY NOTED OTHERWISE BY THE OWNER, ALL WORK AND EQUIPMENT FURNISHED FOR THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE RULES AND REGULATIONS OF THE STATE FIRE INSURANCE REGULATORY BODY, UNDERWRITERS LABORATORIES (UL), AND THE NATIONAL ELECTRICAL CODE (NEC). ENVIRONMENTAL TESTING LABORATORIES (ETL) LISTINGS AND LABELING SHALL BE CONSIDERED EQUAL TO THE CORRESPONDING UL RATING IF APPROVED BY THE LOCAL CODE AUTHORITY.

PLUMBING SYSTEM – SECTION 22 00 00

THE WORK INCLUDES MODIFICATION TO THE EXISTING PLUMBING SYSTEM AND PROVIDING NEW MATERIALS, FITTINGS AND ACCESSORIES NECESSARY FOR A COMPLETE FUNCTIONING PLUMBING SYSTEM. THE WORK ALSO INCLUDES ROUGH-IN. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES, AND IS SUBJECT TO INSPECTION.

HOOK-UP CHARGES, PERMITS AND ALL OTHER EXPENSES RELATED TO A COMPLETE AND FUNCTIONING PLUMBING SYSTEM ARE INCLUDED AS A PART OF THIS SECTION.

THE INTENT OF THE DRAWINGS IS TO INDICATE THE GENERAL EXTENT OF WORK REQUIRED FOR THE PROJECT. THE DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, FIXTURES AND EQUIPMENT REQUIRED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD ROUGH-IN DRAWINGS FOR PLUMBING FIXTURE INSTALLATION REQUIREMENTS. COMPLY WITH ALL APPLICABLE ADA INSTALLATION REQUIREMENTS.

COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.

PIPING SYSTEMS-GENERAL: ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION. ALL PIPING SHALL BE CONCEALED EXCEPT IN UNFINISHED SPACES. INSTALL AS REQUIRED TO MEET ALL CONSTRUCTION CONDITIONS, AND TO ALLOW FOR INSTALLATION OF OTHER WORK SUCH AS DUCTS AND ELECTRICAL CONDUIT. PROVIDE AN ISOLATING DIALECTRIC UNION AT ALL

CONNECTIONS BETWEEN FERROUS PIPING AND NONFERROUS PIPING. ALL HANGERS SHALL BE COMPATIBLE WITH PIPING MATERIAL TO PREVENT CORROSION.

PROVIDE ALL FITTINGS, ACCESSORIES, OFFSETS, AND MATERIALS NECESSARY TO FACILITATE THE PLUMBING SYSTEM'S FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED.

SHUTOFF VALVES WITH UNIONS SHALL BE PROVIDED FOR SERVICE TO EACH PLUMBING FIXTURE TO FACILITATE ISOLATION FOR REPAIR OR REPLACEMENT. VALVES SHALL BE EQUAL TO JENKINS #902-T BALL VALVE, CHROME-FINISHED BRONZE, TEFLON SEATS AND PACKING, 400 LB. W.O.G., SOLDER END.

INSTALLATION: THOROUGHLY CLEAN ITEMS BEFORE INSTALLATION. CAP PIPE OPENINGS TO EXCLUDE DIRT UNTIL FIXTURES ARE INSTALLED AND FINAL CONNECTIONS HAVE BEEN MADE. PROCEED AS RAPIDLY AS CONSTRUCTION WILL PERMIT. SET FIXTURES LEVEL AND IN PROPER ALIGNMENT. INSTALL SUPPLIES IN PROPER ALIGNMENT WITH FIXTURES. INSTALL SILICONE SEALANT BETWEEN FIXTURES AND ADJACENT MATERIAL FOR SANITARY JOINT, AND OMIT ESCUTCHEON.

REPAIR EXISTING PLUMBING SYSTEM COMPONENTS DAMAGED BY CONSTRUCTION OPERATIONS AND RESTORE TO ORIGINAL CONDITION.

TEST WATER SYSTEM UNDER 150 PSIG HYDROSTATIC PRESSURE, FOR A MINIMUM OF FOUR (4) HOURS. WHEN TESTING INDICATES MATERIALS OR WORKMANSHIP IS DEFICIENT, REPLACE OR REPAIR AS REQUIRED, AND REPEAT TEST UNTIL STANDARDS ARE ACHIEVED. PROVIDE A STATIC TEST OF DWV SYSTEM. REPAIR OR REPLACE LEAKS AS REQUIRED.

PLUMBING ABBREVIATIONS

A ADA ASHRAE	AMERICAN WITH DISABILITIES ACT AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING	D DIA OR Ø (EX)	DIAMETER EXISTING	H HB HW HWR	HOSE BIBB DOMESTIC HOT WATER (SUPPLY) DOMESTIC HOT WATER RETURN	O OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	T TMV TYP TW	THERMOSTATIC MIXING VALVE TYPICAL TEPID WATER
B BLDG	BOILER BUILDING	E °F	DEGREE FAHRENHEIT	I IN	INCH	P PLBG PVC	PLUMBING POLYVINYL CHLORIDE	W WM WS	WATER METER WATER SOFTENER
C CD CI CIRC CMU	CONDENSATE DRAIN CAST IRON CIRCULATING CONCRETE MASONRY UNIT	G GALV GPR GW	NATURAL GAS (LOW PRESSURE) GALVANIZED GAS PRESSURE REGULATOR GREASE WASTE (KITCHEN)	M MV	MIXING VALVE	R RE:	REFERENCE, REFER	S SD SHT SMACNA	SOIL (SANITARY SEWER) STORM DRAIN SHEET SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION SHUT-OFF VALVE SPECIFICATION COLD WATER (SOFT)
CO COND CP CPVC CW	CLEANOUT CONDENSATE CIRCULATING PUMP CHLORINATED POLYVINYL CHLORIDE DOMESTIC COLD WATER	N NEMA NIC N.T.S., NTS	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION NOT IN CONTRACT NOT TO SCALE						

PLUMBING PIPING MATERIALS SCHEDULE

SERVICE	PIPE	FITTINGS	JOINTS	HANGERS	INSULATION			NOTES
					CONDITIONED SPACES	UNCONDITIONED SPACE	OUTDOORS	
DOMESTIC COLD WATER BELOW GRADE	TYPE K COPPER SOFT	SOLDER JOINT	BRAZED	NONE	-	-	-	
DOMESTIC COLD WATER ABOVE GRADE	TYPE L COPPER HARD	SOLDER JOINT	SOCKET WELD	COPPER PLATED	1/2" MINERAL FIBER	1/2" MINERAL FIBER	-	

NOTES:

PLUMBING SCHEDULE

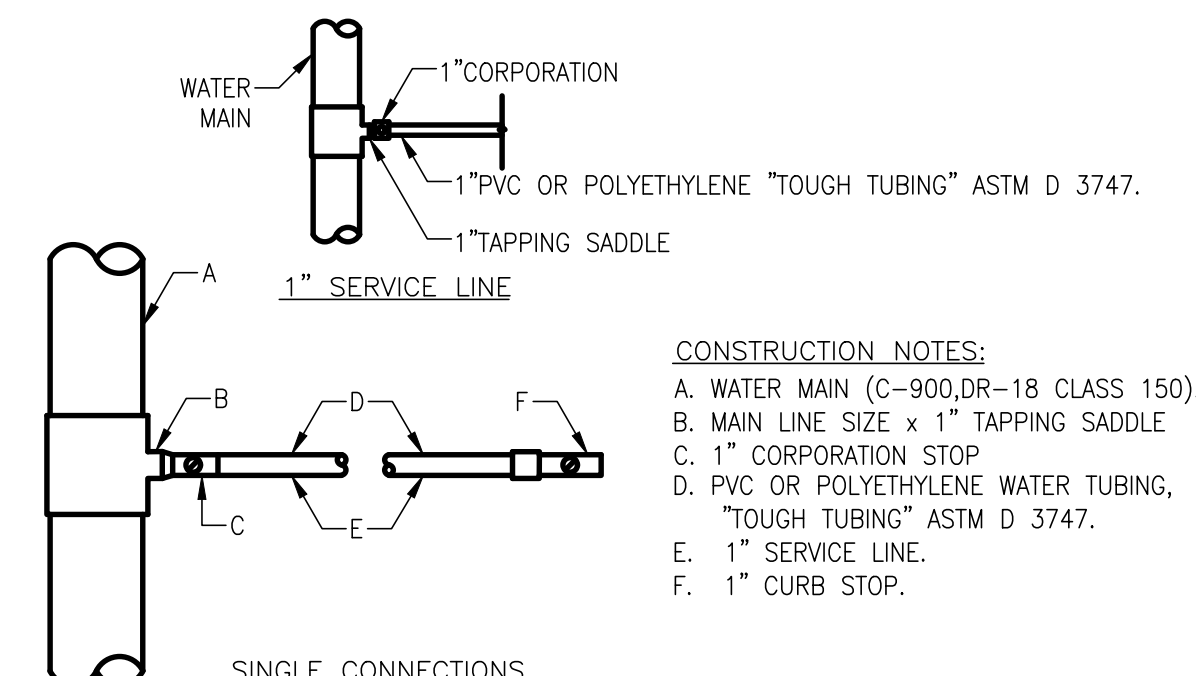
MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		SS	V	CW	HW	
HB	HOSE BIBB	-	-	3/4"	-	LEAD FREE BRONZE HOSE BIBB EQUAL TO ARROWHEAD MODEL #302LF, COMPLETE WITH ARROWHEAD BACK FLOW PREVENTING VACUUM BREAKER MODEL #302BFPLF.

NOTE: REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SANITARY WASTE LINE		BALL VALVE
	VENT LINE		CHECK VALVE
	GREASE WASTE LINE		GATE VALVE
	ACID WASTE LINE		GAS COCK
	PRIMARY ROOF DRAIN LINE		BALANCING VALVE
	SECONDARY OVERFLOW ROOF DRAIN LINE		WATER HAMMER ARRESTOR
	CONDENSATE DRAIN LINE		GLOBE VALVE
	DOMESTIC COLD WATER		FLOOR CLEANOUT
	DOMESTIC HOT WATER (110°F)		YARD CLEANOUT
	DOMESTIC HOT WATER (120°F)		FLOOR DRAIN
	DOMESTIC HOT WATER (140°F)		FLOOR SINK
	DOMESTIC HOT WATER RETURN LINE		ROOF DRAIN / OVERFLOW ROOF DRAIN
	DOMESTIC TEPID WATER LINE		HOSE BIBB
	COMPRESSED AIR LINE		WALL HYDRANT
	NATURAL GAS LINE		UNION
	EXISTING TO NEW CONNECTION		BRANCH - TOP CONNECTION
			BRANCH - BOTTOM CONNECTION
			PIPE RISE
			PIPE DROP
			PLUMBING RISER DESIGNATION
			PLUMBING DETAIL REFERENCE

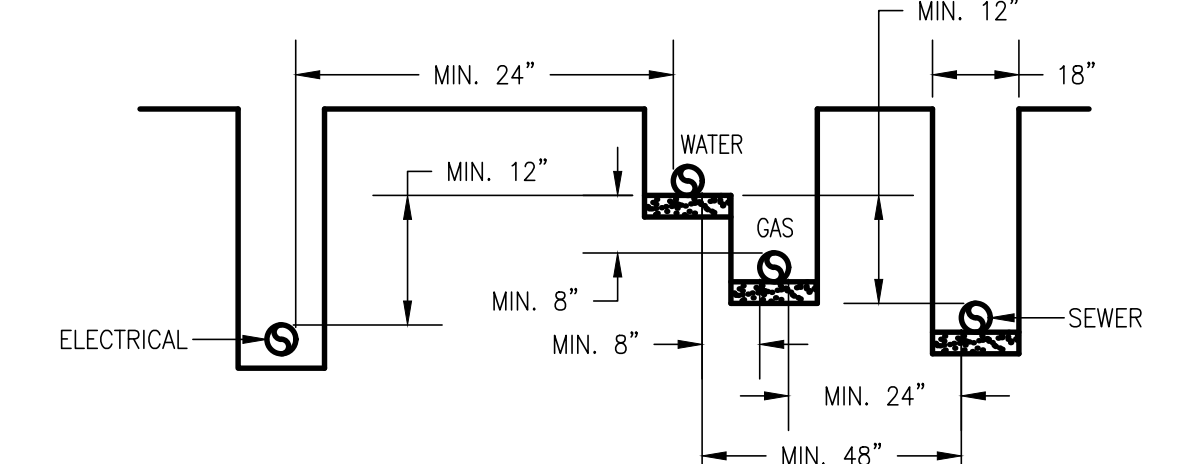
NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT



TYPICAL SINGLE SERVICE CONNECTION

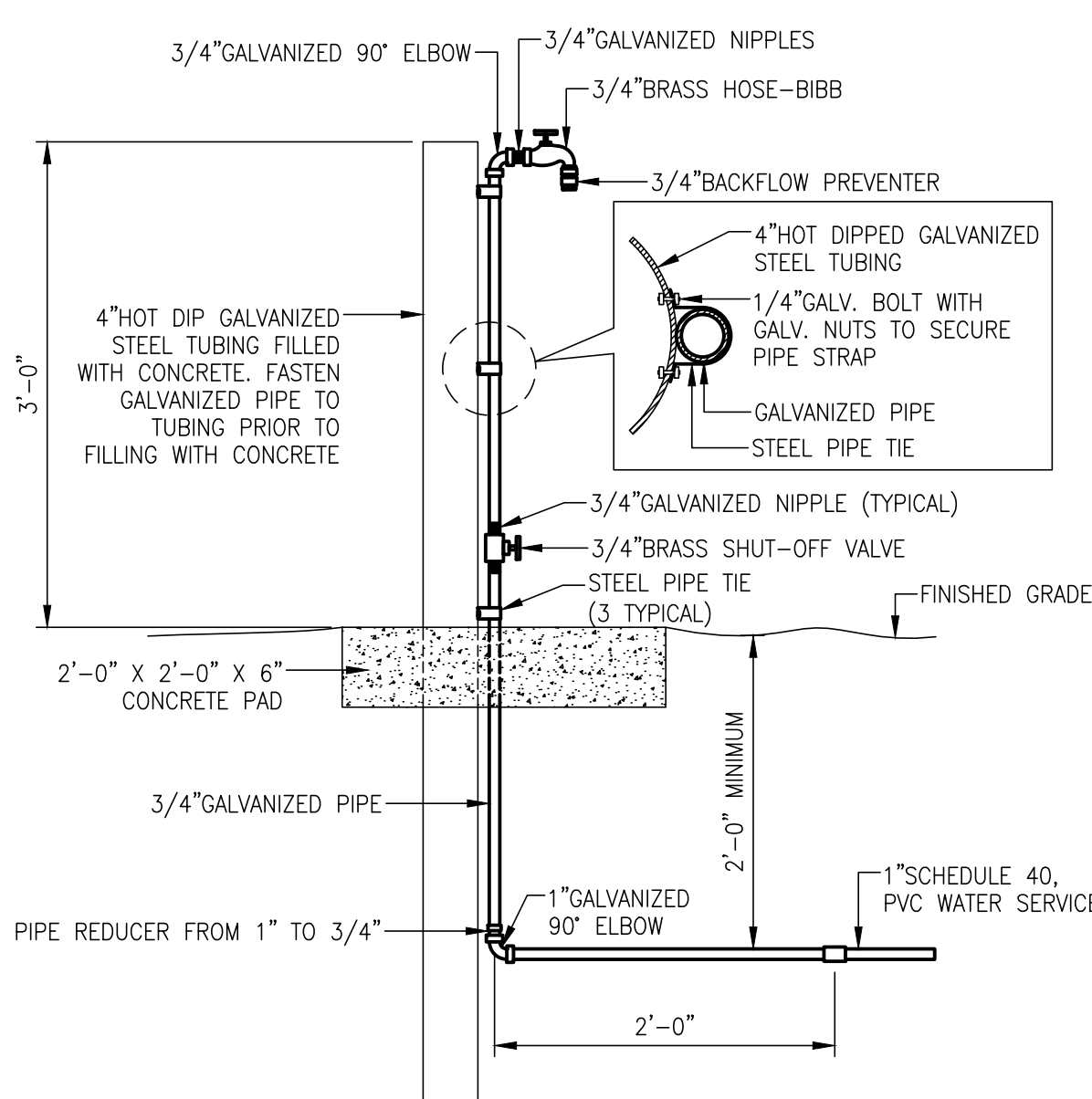
02 N.T.S.

- NOTES:
- CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.
 - MAINTAIN ALL MINIMUM 48 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES.
 - COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.



TRENCH DETAIL

01 N.T.S.



HOSE BIBB DETAIL

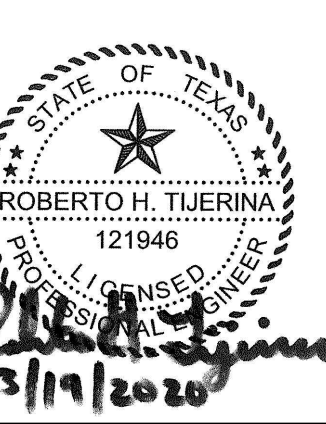
03 N.T.S.

HCSO BUS BARN
HIDALGO COUNTY CONTRACT
#C-18-142-05-08
EDINBURG, TX 78541



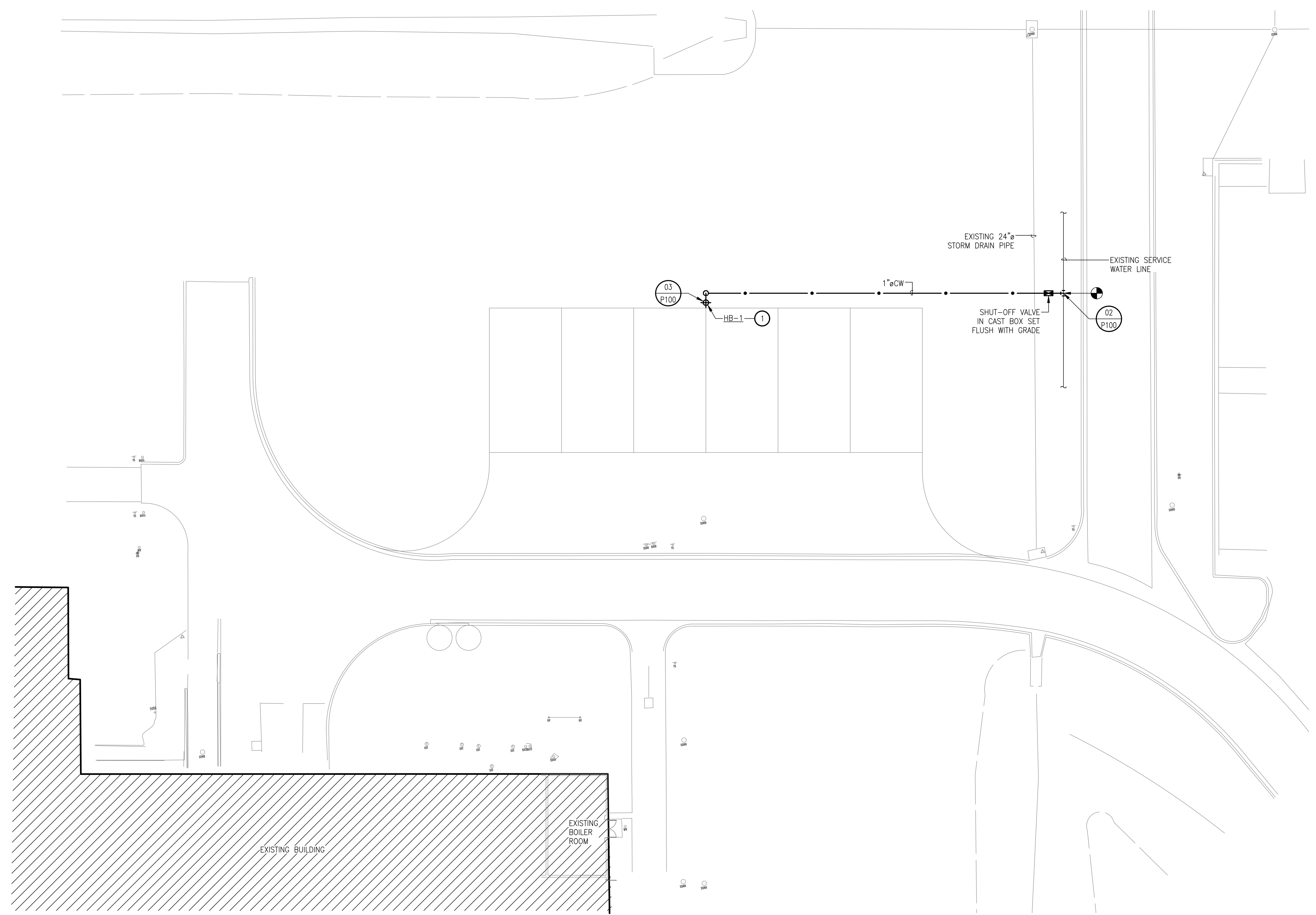
HALFF
5000 WEST MILITARY, SUITE 100
MCALLEN, TEXAS 78903
TEL: 361-242-7700
FAX: 361-242-9322
TBE FIRM # 1372

Revision No.	Date	Description



Project No.:	34015.004
Issued:	03/19/2020
Drawn By:	E.M.
Checked By:	R.H.T.
Scale:	AS NOTED
Sheet Title:	PLUMBING SCHEDULES, DETAILS & SPECIFICATIONS
P100	Sheet Number

File Name: I:\340003\34015\004\MEP\CADD\P101-SP-34015.004.dwg
 Current Tab (Layout): P101 User: AH1497
 Printed Date: 3/19/2020 3:16:04 PM



01 PLUMBING SITE PLAN
 SCALE: 1"=20'

GENERAL NOTES:

- A. INFORMATION ON THIS PLAN HAS BEEN OBTAINED FROM EXISTING DRAWINGS AND SITE SURVEY. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.
- B. PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES, ORDINANCES, AND OTHER STATE AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.
- C. PLUMBING CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND ELECTRICAL UNDERGROUND CONDUITS PRIOR TO BEGINNING OF CONSTRUCTION.
- D. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK.
- E. PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.
- F. SLEEVE ALL OUTSIDE WALL PENETRATIONS.
- G. DOMESTIC WATER LINE SHALL BE ROUTED, SO AS TO AVOID CROSSING OVER LIGHT FIXTURES WHERE POSSIBLE AND ELECTRICAL PANELS IN ALL CASES.
- H. PLUMBING CONTRACTOR SHALL IDENTIFY LOCATION OF EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW PIPING. FAILURE TO COMPLY SHALL RESULT IN CORRECTING AT NO COST TO THE OWNER REPRESENTATIVE.
- I. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ENGINEER/OWNER-APPROVED PATCHING MATERIALS.
- D. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE-DRILLED OR SAWED WHEN POSSIBLE. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING, OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.
- E. CONTRACTOR SHALL KEEP THE ENTIRE MEP SITE CLEAN AT ALL TIMES.
- F. CONTRACTOR AND OWNER SHALL BE FULLY RESPONSIBLE TO IDENTIFY ANY AND ALL ASBESTOS PRESENT IN THE BUILDING PRIOR TO DEMOLITION AS REQUIRED BY LAW.
- H. COORDINATION AMONG OTHER CONSTRUCTION DISCIPLINES PRIOR TO COMMENCEMENT OF WORK IS MANDATORY.
- B. WORK SHALL BE SHUT DOWN DURING CRITICAL ACTIVITIES BY FORMAL REQUEST FROM THE OWNER. WORK IN DUSTY AREAS SHALL BE CONTROLLED WITH TEMPORARY PARTITIONS. FLAME CUTTING SHALL BE MINIMIZED TO ELIMINATE SMOKE PRODUCTION. PROVIDE FIRE EXTINGUISHERS IN THE IMMEDIATE AREA.

KEY NOTES: ①

1. COORDINATE FINAL LOCATION OF HOSE BIBB WITH OWNER PRIOR TO ROUGH-IN.

HCSO BUS BARN
 HIDALGO COUNTY CONTRACT
 #C-18-142-05-08
 EDINBURG, TX 78541

HALFF
 5000 WEST MILITARY, SUITE 100
 MCALLEN, TEXAS 78503
 FAX 361/656-6443
 TBE FIRM #1372

Revision No.	Date	Description

Project No.: 34015.004
 Issued: 03/19/2020
 Drawn By: E.M.
 Checked By: R.H.T.
 Scale: AS NOTED
 Sheet Title
PLUMBING SITE PLAN
P101
 Sheet Number

**SECTION 00 41 00
BID FORM**

1.01 TO:

- A. County of Hidalgo
1. Hidalgo County Purchasing Department, 2802 S. Business Hwy. 281, Edinburg, TX 78539

1.02 FOR:

- A. HCSO Bus Barn, Edinburg, TX
RFB No. #C-18-142-05-08

1.03 DATE: _____ (Bidder to enter date)

1.04 SUBMITTED BY: (Bidder to enter name and address)

- A. Bidder's Full Name _____
Address _____
City, State, Zip _____

1.05 OFFER

- A. Having examined the Place of The Work and all matters referred to in the Instructions to Bidders and the Contract Documents prepared by Halff Associates, Inc. for the above mentioned project, we, the undersigned, hereby offer to enter into a Contract to perform the Work for the items listed in this bid form of:

_____ dollars (\$ _____), in lawful money of the United States of America.

- B. **BID BOND:** Offerors will be required to provide Bid Security in the form of a Bid Bond in the amount of 5 percent of the largest possible total proposal. Failure to provide the Bid Bond with the proposal will constitute a non-responsive proposal and the proposal will not be considered.
- C. **PERFORMANCE AND LABOR & MATERIAL PAYMENT BONDS:** The successful Offeror will be required to provide 100% Performance and Labor and Materials. Payment Bond in strict conformance with all the requirements of the Contract Documents. Failure to do so will result in cancellation of the contract award and forfeiture of the Bid Bond security as liquidated damages.
- D. **NOTE:** Awarded Vendor must provide criminal background clearances through Senate Bill 9 for all personnel and sub-contractors working on the project job site.
- E. All applicable federal taxes are included and State of Texas taxes are included in the Bid Sum.

1.06 ACCEPTANCE

- A. This Bidder shall be open to acceptance and is irrevocable for Ninety (90) days from the bid closing date.
- B. If this bid is accepted by County of Hidalgo within the time period stated above, we will:
Execute the Agreement within seven days of receipt of Notice of Award.
Furnish the required bonds within seven days of receipt of Notice of Award.

Commence work within seven days after written Notice to Proceed of this bid.

- C. If this bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bond(s), the security deposit shall be forfeited as damages to County of Hidalgo by reason of our failure, limited in amount to the lesser of the face value of the security deposit or the difference between this bid and the bid upon which a Contract is signed.
- D. In the event our bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

1.07 CONTRACT TIME

- A. If the Bid is accepted, project will be substantially complete as follows: Complete the Work in thirty (30) calendar days from Notice to Proceed.
- B. Liquidated Damages: County of Hidalgo has the right under contract to assess liquidated damages for each calendar day beyond the date for substantial completion set out in the contract in which the Work fails to be substantially complete due to unexcused delay. In the event the Contractor fails to achieve Substantial Completion of the work within the time indicated in the Bid Form, or as mutually agreed upon, or as such date may be extended or shortened by approved Change Order, the Owner shall be entitled to liquidated damages in the amount of \$500.00 per day for each day that the work is not substantially complete - the date on the Certificate of Substantial Completion.
- C. In the event the Contractor fails to achieve Final Completion of the Work within ten (10) days of Substantial Completion or as mutually agreed upon, or as such date may be extended or shortened by approved Change Order, the Owner shall be entitled to liquidated damages in the amount of \$500.00 per day that passes within the first seven days past the scheduled Final Completion date in which the Work is not completed; \$1,000.00 per day for each day that passes within the second seven days past the scheduled Final Completion date in which the Work is not completed; and \$1,500.00 per day for each day that passes within the third seven days past the scheduled Final Completion date in which the Work is not completed, until the work is finally completed.
- D. Back Charges: County of Hidalgo has the right under contract to back charge amounts that are spent to complete a portion of the work not completed by the contractor based on schedule and repairs of damage caused by work associated with the construction that requires quick response due to County of Hidalgo operations and contractor has failed to respond. This will be deducted from contractor's contract amount and written as a change order to the contract.
- E. Rain/Off Days: Rain Days must be submitted within 3 days of event or with each pay application (weekly report) failure to provide notification with proper proof within the time period will not be accepted. Any additional days after rain days that the contractor fails to work will be charged as work days unless authorized in writing by both the contractor and Owner, refer to 1.07 Contract Time, A.
- F. Completion of Work
If this Bid is accepted, we will:
Complete the Work in 30 calendar days from Notice to Proceed.

1.08 CHANGES TO THE WORK

- A. All approved change orders must be signed by the Owner and Engineer. Engineer will issue a Proposal Request (PR) to the Contractor; Contractor will prepare detail cost and time information including sub-

contractor breakdown (Change Proposal) and submit to Engineer for review, within 10 days of receipt of the Proposed Change; Engineer will submit proposal and all information to Owner for review and approval.

- B. Allowances shall be handled in a similar manner as a change order, refer to 1.08, B. Contractor shall prepare detail cost and time information and submit to Engineer for review; Engineer will submit proposal and all information to Owner for review and approval.

1.09 ADDENDA

- A. The following Addenda have been received. The modifications to the Proposal Documents noted below have been considered and all costs are included in the Proposal Sum.

____ Addendum # 1 Dated _____.
____ Addendum # 2 Dated _____.
____ Addendum # 3 Dated _____.
____ Addendum # 4 Dated _____.
____ Addendum # 5 Dated _____.

1.10 BID FORM SIGNATURE(S)

- A. The Corporate Seal of

- B. (Bidder - print the full name of your firm)

- C. was hereunto affixed in the presence of:

D. _____

- E. (Authorized signing officer, Title)

- F. (Seal)

G. _____

- H. (Authorized signing officer, Title)

- 1.11 If the Bid is a joint venture or partnership, add additional forms of execution for each member of the joint venture in the appropriate form or forms as above.**

END OF BID FORM

BID SHEET

**CONSTRUCTION OF BUS BARN FOR HIDALGO COUNTY SHERIFF'S OFFICE
EDINBURG, TEXAS**

LOCATION: 711 EL CIBOLO ROAD, EDINBURG TEXAS

CONSTRUCTION OF BUS BARN FOR HIDALGO COUNTY SHERIFF'S OFFICE

	Quantity	Unit	Unit Cost	Cost	
1	BUS BARN IMPROVEMENTS	1	LS	\$ -	\$ -
				Sub - Total =	\$ -

Total = \$ -

NOTE:

- 1 ALL ITEMS ARE TO BE PRICED TO BE COMPLETE IN PLACE AND FULLY FUNCTIONAL WITH ALL ASSOCIATED LABOR INCLUDED.
- 2 ALL MOBILIZATION, EXPECTED FEES AND PERMITS ARE TO PRICED UNDER VARIES BID ITEMS.
- 3 ALL ITEMS ON PLANS AND SPECIFICATIONS SHALL BE PRICED WITHIN THIS BID FORM.

STATEMENT OF CREDENTIALS
for Facility Construction and Related Projects
(Non-road Improvements)

1. GENERAL: In order to assist the Owner in determining the ability of each Bidder to properly fulfill the requirements of this proposed contract, the Bidder will complete the following items. **All questions must be answered** and the data given must be clear and comprehensive. **This statement must be notarized.** If necessary, questions may be answered on separate attached sheets. The Bidder may submit any additional information he/she desires.

Name of Bidder: _____

Address: _____

Date Organized: _____ Date Incorporated: _____

Office Number: _____ Fax Number: _____

Number of years in business under present name: _____

Type of work performed by your company: _____

Have you ever failed to complete any work awarded to you? _____

Have you ever defaulted on a contract? _____

2. EXPERIENCE: The Bidder will give below a list of similar projects which he/she has completed within the last five (5) years.

1. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____ Total Cost: _____

2. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____ Total Cost: _____

3. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____ Total Cost: _____

4. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____ Total Cost: _____

5. Owner: _____

Address: _____

Ph/Fx Number: _____ Email: _____

Scope of Work Description: _____

Date Completed: _____ Total Cost: _____

5. PERFORMANCE OF WORK BY BIDDER: Except as otherwise provided, the **general contractor/bidder** shall perform no **less** than eighty percent (**80%**) of the work with his own organization, and **no more than** twenty percent (**20%**) of the work may be subcontracted.

The organization of the specifications into divisions, sections, articles, etc., and the arrangement and titles of project drawings shall not control the Bidder in dividing the work among subcontractors or in establishing the extent of work to be performed by any trade.

Awarded bidder shall assign a project superintendent who is directly employed by the Bidder, that superintendent will be required to be on the job on a daily basis. No subcontractors will be allowed to act as project superintendents at any point during the construction of said project.

Bidder shall have a significant business presence with the Rio Grande Valley Area, the business must be headquartered in either Hidalgo, Cameron, or Starr County or a local office must be located in either of the three counties (Hidalgo, Cameron, Starr) with at least thirty percent (30%) of the total company workforce employed at the local office. County reserves the right to request payrolls and any necessary documentation to confirm that the local office meets these requirements.

Bidders shall carefully examine the plans, specifications and other documents, visit the site of the work, and fully inform themselves as to all conditions and matters which can affect the work or cost thereof. Should the bidder find discrepancies in, or omissions from the plans, specifications or other documents, or should he/she be in doubt as their meaning, he/she should at once notify the Engineer and obtain clarification by addendum prior to submitting any bid.

Bidder hereby certifies that said company carried liability coverage and workers compensation insurance coverage that meets the requirements set forth in this Request for Bids/Proposals when performing work on this project for Hidalgo County.

Furthermore, bidder certifies that any subcontractor on the project shall provide the said company with a certificate relating that all employees of the subcontractor also are provided with workers' compensation insurance coverage. Bidder will provide copies of all of these certificates to Hidalgo County during the course of the project for all subcontractors working on the project.

All subcontractors must comply with federally determined prevailing Davis-Bacon and Related Acts wage rate.

Hidalgo County encourages the hiring of minority women subcontractors and/or suppliers whenever and wherever feasible.

The undersigned hereby authorizes and requests any person, firm, or corporation to furnish any information requested by the owner in verification of the recitals comprising this Statement of Credentials.

Executed this _____ day of _____, 20_____.

By _____

Title _____

Subscribed and sworn to me this _____ day of _____, 20_____.

By: _____

Notary Public in and for _____ County, Texas

My commission expires _____

THIS PAGE LEFT INTENTIONALLY BLANK

WITNESS THE HANDS OF THE PARTIES effective as of the day and year first written above.

APPROVED BY COMMISSIONERS COURT ON, _____, 2_____.

CONTRACTOR: _____
Print Name & Title: _____
Name of Firm: _____
Address: _____
Fed I.D. #/SS #: _____

STATE OF TEXAS

COUNTY OF HIDALGO

This instrument was acknowledged before me on this the _____ day of _____,
2_____, by _____ Of and on behalf of _____
(Title) (A corporation)

Notary Public-Signature

ATTEST:

COUNTY OF HIDALGO:

Arturo Guajardo, Jr., County Clerk

Richard F. Cortez, County Judge

APPROVED AS TO FORM:
Hidalgo County District Attorney's Office

By: _____
Robert Viña III, Assistant District Attorney

DRAFT

PAYMENT BOND

(To be used in Texas under V.A.T.S. 5160)

THE STATE OF _____

COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS: That we (1) _____, a (2) _____, hereinafter called Principal and (3) _____ of _____, hereinafter called the Surety, are held and firmly bound unto (4) _____ of _____, hereinafter called Owner, and unto all persons, firms, and corporations who may furnish materials for, or perform labor upon the building or improvements hereinafter referred to the penal sum of _____ (\$ _____) Dollars in lawful money of the United States to be paid in (5) _____, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly be these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with (6) _____, the Owner, dated the _____ day of _____, A.D. 200__, a copy of which is hereto attached and made a part hereof for the construction of:

HIDALGO COUNTY PRECINCT # _____

These footnotes refer to numbers in body of contract above:

- Date of Bond must not be prior to date of contract
- (1) Correct name of Contractor
- (2) A Corporation, a Partnership or an Individual, as case may be
- (3) Correct name of Surety
- (4) Correct name of Owner
- (5) County and State
- (6) Owner

NOW, THEREFORE, the condition of this obligation is such that, if the -1- Principal shall promptly make payment to all claimants as defined in Article 5160 Revised Civil Statutes of Texas, 1925, as amended by House Bill 344, Act 56th Legislature, Regular Session, 1925 effective April 27, 1959, supplying labor and materials in the prosecution of the work provided for in said Contract, then this obligation shall be null and void, otherwise it shall remain in full force and effect.

This bond is made and entered into solely for the prosecution of all claimants supplying labor and material in the prosecution of the work provided for in said Contract, and all such claimants shall have a direct right of action under the bond as provided in Article 5160, Revised Civil Statutes 1925, as amended by House Bill 344, Acts 56th Legislature, Regular Session, 1959

PROVIDED FURTHER, that if any legal action be filed upon this bond, venue shall lie in Hidalgo County, State of Texas, and that the said surety, for value

received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specification accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in six counterparts, each one of which shall be deemed an original, this the _____ day of _____ . A.D., 20_____.

ATTEST:

(Principal) Secretary

(Seal)

Witness as to Principal

(Address)

Principal _____
By _____

(Address) _____

Telephone Number: _____

Surety

ATTEST:

(Surety) Secretary

(Seal)

Witness as to Surety

(Address)

By _____

(Address) _____

NOTE: If Contractor is partnership all Partners should execute bond

Telephone Number: _____

PAYMENT BOND FORM

(Address)
Telephone Number: _____

(Individual Principal)

(Business Address)
Telephone Number: _____

(Corporate Principal)

(Business Address) (Affix Corporate SEAL)
Telephone Number: _____
BY _____

ATTEST:

(Business Address) (Affix Corporate SEAL)
BY _____
Telephone Number: _____

CERTIFICATES AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the _____
Secretary of the corporation named as Principal in the within bond; that _____
_____, who signed the said bond on behalf of the Principal
was then _____ of said corporation; and I know his signature,
and his signature thereto is genuine; and that said bond was duly signed,
sealed, and attested for and in behalf of said corporation by authority of
its governing body.

(TITLE)
DATE _____

(AFFIX CORPORATE SEAL)

Telephone Number: _____

The rate of premium on this bond is _____ per thousand. Total amount
of premium charge \$_____.
(The above must be filled in by corporate surety.) (Power-of-Attorney of
person signing for surety company must be attached.)

THIS PAGE LEFT INTENTIONALLY BLANK

PERFORMANCE BOND
(To be used in Texas under V.A.T.S. 5160)

THE STATE OF _____

COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS: That we (1) _____, a (2) _____ OF _____ hereinafter called Principal and (3) _____ of _____, State of _____, hereinafter called the Surety, are held and firmly bound unto (4) _____ of _____ hereinafter called Owner, in the penal sum of _____ (\$ _____) Dollars in lawful money of the United States to be paid in (5) _____, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with (6) _____, the Owner, dated the _____ day of _____, A.D. 200__, a copy of which is hereto attached and made a part hereof for the construction of:

HIDALGO COUNTY PRECINCT # _____

hereinafter called the "Work").

These footnotes refer to the numbers in body of contract above:

Date of Bond must not be prior to date of contract

- (1) Correct name of Contractor
- (2) A Corporation, a Partnership or an Individual, as case may be
- (3) Correct name of Surety
- (4) Correct name of Owner
- (5) County and State
- (6) Owner

(Texas Performance Bond) - Page 2.

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform the work in accordance with the plans, specifications, and contract documents during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED FURTHER, that if any legal action be filed upon this bond, venue shall lie in Hidalgo County, State of Texas, and that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any

way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alternation or addition to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF, this instrument is executed in six counterparts, each one of which shall be deemed an original, this the _____ day of _____
_____. A.D.

ATTEST:

(Principal) Secretary

(Seal)

Witness as to Principal

(Address)

Principal _____
By _____

(Address) _____

Telephone Number: _____

ATTEST:

(Surety) Secretary

(Seal)

Witness as to Surety

(Address)

By _____

(Address) _____

Telephone Number: _____

NOTE: If Contractor is a partnership, all partners should execute bond.

PERFORMANCE-PAYMENT BOND FORM

(Address)
Telephone Number: _____

(Individual Principal)

(Business Address)
Telephone Number: _____

(Corporate Principal)

(Business Address) (Affix Corporate SEAL)
Telephone Number: _____
BY _____

ATTEST:

(Business Address) (Affix Corporate SEAL)
BY _____
Telephone Number: _____

CERTIFICATES AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the _____
Secretary of the corporation named as Principal in the within bond; that _____
_____, who signed the said bond on behalf of the Principal
was then _____ of said corporation; and I know his signature,
and his signature thereto is genuine; and that said bond was duly signed,
sealed, and attested for and in behalf of said corporation by authority of
its governing body.

(TITLE)
DATE _____

(AFFIX CORPORATE SEAL)

Telephone Number: _____

The rate of premium on this bond is _____ per thousand. Total amount
of premium charge \$_____.
(The above must be filled in by corporate surety.) (Power-of-Attorney of
person signing for surety company must be attached.)

STANDARD
GENERAL CONDITIONS
OF THE
CONSTRUCTION CONTRACT

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

and

Issued and Published Jointly By

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE
a practice division of the
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

AMERICAN CONSULTING ENGINEERS COUNCIL

AMERICAN SOCIETY OF CIVIL ENGINEERS

This document has been approved and endorsed by

The Associated General Contractors of America

Construction Specifications Institute

Copyright ©1996

National Society of Professional Engineers
1420 King Street, Alexandria, VA 22314

American Consulting Engineers Council
1015 15th Street N.W., Washington, DC 20005

American Society of Civil Engineers
345 East 47th Street, New York, NY 10017

TABLE OF CONTENTS

	<u>Page</u>
ARTICLE 1 - DEFINITIONS AND TERMINOLOGY	6
1.01 <i>Defined Terms</i>	6
1.02 <i>Terminology</i>	8
ARTICLE 2 - PRELIMINARY MATTERS	9
2.01 <i>Delivery of Bonds</i>	9
2.02 <i>Copies of Documents</i>	9
2.03 <i>Commencement of Contract Times; Notice to Proceed</i>	9
2.04 <i>Starting the Work</i>	9
2.05 <i>Before Starting Construction</i>	9
2.06 <i>Preconstruction Conference</i>	10
2.07 <i>Initial Acceptance of Schedules</i>	10
ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE.....	10
3.01 <i>Intent</i>	10
3.02 <i>Reference Standards</i>	10
3.03 <i>Reporting and Resolving Discrepancies</i>	10
3.04 <i>Amending and Supplementing Contract Documents</i>	11
3.05 <i>Reuse of Documents</i>	11
ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS	11
4.01 <i>Availability of Lands</i>	11
4.02 <i>Subsurface and Physical Conditions</i>	12
4.03 <i>Differing Subsurface or Physical Conditions</i>	12
4.04 <i>Underground Facilities</i>	13
4.05 <i>Reference Points</i>	13
4.06 <i>Hazardous Environmental Condition at Site</i>	14
ARTICLE 5 - BONDS AND INSURANCE.....	15
5.01 <i>Performance, Payment, and Other Bonds</i>	15
5.02 <i>Licensed Sureties and Insurers</i>	15
5.03 <i>Certificates of Insurance</i>	15
5.04 <i>CONTRACTOR's Liability Insurance</i>	15
5.05 <i>OWNER's Liability Insurance</i>	16
5.06 <i>Property Insurance</i>	16
5.07 <i>Waiver of Rights</i>	17
5.08 <i>Receipt and Application of Insurance Proceeds</i>	18
5.09 <i>Acceptance of Bonds and Insurance; Option to Replace</i>	18
5.10 <i>Partial Utilization, Acknowledgment of Property Insurer</i>	18
ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES	18
6.01 <i>Supervision and Superintendence</i>	18
6.02 <i>Labor; Working Hours</i>	19
6.03 <i>Services, Materials, and Equipment</i>	19
6.04 <i>Progress Schedule</i>	19
6.05 <i>Substitutes and "Or-Equals"</i>	19
6.06 <i>Concerning Subcontractors, Suppliers, and Others</i>	21

6.07 Patent Fees and Royalties	21
6.08 Permits	22
6.09 Laws and Regulations	22
6.10 Taxes	22
6.11 Use of Site and Other Areas.....	22
6.12 Record Documents.....	22
6.13 Safety and Protection	23
6.14 Safety Representative.....	23
6.15 Hazard Communication Programs.....	23
6.16 Emergencies.....	23
6.17 Shop Drawings and Samples.....	24
6.18 Continuing the Work	25
6.19 CONTRACTOR's General Warranty and Guarantee	25
6.20 Indemnification.....	25
ARTICLE 7 - OTHER WORK	26
7.01 Related Work at Site	26
7.02 Coordination.....	26
ARTICLE 8 - OWNER'S RESPONSIBILITIES	27
8.01 Communications to Contractor.....	27
8.02 Replacement of ENGINEER.....	27
8.03 Furnish Data	27
8.04 Pay Promptly When Due.....	27
8.05 Lands and Easements; Reports and Tests	27
8.06 Insurance.....	27
8.07 Change Orders	27
8.08 Inspections, Tests, and Approvals	27
8.09 Limitations on OWNER's Responsibilities.....	27
8.10 Undisclosed Hazardous Environmental Condition	27
8.11 Evidence of Financial Arrangements	27
ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION.....	27
9.01 OWNER'S Representative	27
9.02 Visits to Site	28
9.03 Project Representative.....	28
9.04 Clarifications and Interpretations.....	28
9.05 Authorized Variations in Work	28
9.06 Rejecting Defective Work	29
9.07 Shop Drawings, Change Orders and Payments.....	29
9.08 Determinations for Unit Price Work.....	28
9.09 Decisions on Requirements of Contract Documents and Acceptability of Work.....	28
9.10 Limitations on ENGINEER's Authority and Responsibilities	28
ARTICLE 10 - CHANGES IN THE WORK; CLAIMS.....	29
10.01 Authorized Changes in the Work.....	29
10.02 Unauthorized Changes in the Work.....	29
10.03 Execution of Change Orders	30
10.04 Notification to Surety	30
10.05 Claims and Disputes	30
ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK.....	30
11.01 Cost of the Work.....	30

11.02 <i>Cash Allowances</i>	32
11.03 <i>Unit Price Work</i>	33
ARTICLE 12 - CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES	33
12.01 <i>Change of Contract Price</i>	33
12.02 <i>Change of Contract Times</i>	34
12.03 <i>Delays Beyond CONTRACTOR's Control</i>	34
12.04 <i>Delays Within CONTRACTOR's Control</i>	34
12.05 <i>Delays Beyond OWNER's and CONTRACTOR'S Control</i>	34
12.06 <i>Delay Damages</i>	34
ARTICLE 13 - TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK.....	34
13.01 <i>Notice of Defects</i>	34
13.02 <i>Access to Work</i>	34
13.03 <i>Tests and Inspections</i>	35
13.04 <i>Uncovering Work</i>	35
13.05 <i>OWNER May Stop the Work</i>	35
13.06 <i>Correction or Removal of Defective Work</i>	36
13.07 <i>Correction Period</i>	36
13.08 <i>Acceptance of Defective Work</i>	36
13.09 <i>OWNER May Correct Defective Work</i>	36
ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION	37
14.01 <i>Schedule of Values</i>	37
14.02 <i>Progress Payments</i>	37
14.03 <i>CONTRACTOR's Warranty of Title</i>	38
14.04 <i>Substantial Completion</i>	39
14.05 <i>Partial Utilization</i>	39
14.06 <i>Final Inspection</i>	39
14.07 <i>Final Payment</i>	40
14.08 <i>Final Completion Delayed</i>	40
14.09 <i>Waiver of Claims</i>	41
ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION.....	41
15.01 <i>OWNER May Suspend Work</i>	41
15.02 <i>OWNER May Terminate for Cause</i>	41
15.03 <i>OWNER May Terminate For Convenience</i>	41
15.04 <i>CONTRACTOR May Stop Work or Terminate</i>	42
ARTICLE 16 - DISPUTE RESOLUTION	42
16.01 <i>Methods and Procedures</i>	42
ARTICLE 17 - MISCELLANEOUS.....	43
17.01 <i>Giving Notice</i>	43
17.02 <i>Computation of Times</i>	43
17.03 <i>Cumulative Remedies</i>	43
17.04 <i>Survival of Obligations</i>	43
17.05 <i>Controlling Law</i>	43

GENERAL CONDITIONS

ARTICLE 1 - DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

A. Wherever used in the Contract Documents and printed with initial or all capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof.

1. *Addenda*--Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the Contract Documents.

2. *Agreement*--The written instrument which is evidence of the agreement between OWNER and CONTRACTOR covering the Work.

3. *Application for Payment*--The form acceptable to ENGINEER which is to be used by CONTRACTOR during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

4. *Asbestos*--Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.

5. *Bid*--The offer or proposal of a bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

6. *Bidding Documents*--The Bidding Requirements and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

7. *Bidding Requirements*--The Advertisement or Invitation to Bid, Instructions to Bidders, Bid security form, if any, and the Bid form with any supplements.

8. *Bonds*--Performance and payment bonds and other instruments of security.

9. *Change Order*--A document recommended by ENGINEER which is signed by CONTRACTOR and OWNER and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the

Contract Times, issued on or after the Effective Date of the Agreement.

10. *Claim*--A demand or assertion by OWNER or CONTRACTOR seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.

11. *Contract*--The entire and integrated written agreement between the OWNER and CONTRACTOR concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.

12. *Contract Documents*--The Contract Documents establish the rights and obligations of the parties and include the Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post Bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Agreement, the Notice to Proceed, the Bonds, these General Conditions, the Supplementary Conditions, the Specifications and the Drawings as the same are more specifically identified in the Agreement, together with all Written Amendments, Change Orders, Work Change Directives, Field Orders, and ENGINEER's written interpretations and clarifications issued on or after the Effective Date of the Agreement. Approved Shop Drawings and the reports and drawings of subsurface and physical conditions are not Contract Documents. Only printed or hard copies of the items listed in this paragraph are Contract Documents. Files in electronic media format of text, data, graphics, and the like that may be furnished by OWNER to CONTRACTOR are not Contract Documents.

13. *Contract Price*--The moneys payable by OWNER to CONTRACTOR for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of paragraph 11.03 in the case of Unit Price Work).

14. *Contract Times*--The number of days or the dates stated in the Agreement to: (i) achieve Substantial Completion; and (ii) complete the Work so that it is ready for final payment as evidenced by ENGINEER's written recommendation of final payment.

15. *CONTRACTOR*--The individual or entity with whom OWNER has entered into the Agreement.

16. *Cost of the Work*--See paragraph 11.01.A for definition.

17. *Drawings*--That part of the Contract Documents prepared or approved by ENGINEER which graphically shows the scope, extent, and character of the Work to be performed by CONTRACTOR. Shop Drawings and other CONTRACTOR submittals are not Drawings as so defined.

18. *Effective Date of the Agreement*--The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

19. *ENGINEER*--The individual or entity named as such in the Agreement.

20. *ENGINEER's Consultant*--An individual or entity having a contract with ENGINEER to furnish services as ENGINEER's independent professional associate or consultant with respect to the Project and who is identified as such in the Supplementary Conditions.

21. *Field Order*--A written order issued by ENGINEER which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.

22. *General Requirements*--Sections of Division 1 of the Specifications. The General Requirements pertain to all sections of the Specifications.

23. *Hazardous Environmental Condition*--The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto in connection with the Work.

24. *Hazardous Waste*--The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.

25. *Laws and Regulations; Laws or Regulations*--Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

26. *Liens*--Charges, security interests, or encumbrances upon Project funds, real property, or personal property.

27. *Milestone*--A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.

28. *Notice of Award*--The written notice by OWNER to the apparent successful bidder stating that upon timely compliance by the apparent successful bidder with the conditions precedent listed therein, OWNER will sign and deliver the Agreement.

29. *Notice to Proceed*--A written notice given by OWNER to CONTRACTOR fixing the date on which the Contract Times will commence to run and on which CONTRACTOR shall start to perform the Work under the Contract Documents.

30. *OWNER*--The individual, entity, public body, or authority with whom CONTRACTOR has entered into the Agreement and for whom the Work is to be performed.

31. *Partial Utilization*--Use by OWNER of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all the Work.

32. *PCBs*--Polychlorinated biphenyls.

33. *Petroleum*--Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.

34. *Project*--The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part as may be indicated elsewhere in the Contract Documents.

35. *Project Manual*--The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.

36. *Radioactive Material*--Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.

37. *Resident Project Representative*--The authorized representative of ENGINEER who may be assigned to the Site or any part thereof.

38. *Samples*--Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.

39. *Shop Drawings*--All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for CONTRACTOR and submitted by CONTRACTOR to illustrate some portion of the Work.

40. *Site*--Lands or areas indicated in the Contract Documents as being furnished by OWNER upon which the Work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by OWNER which are designated for the use of CONTRACTOR.

41. *Specifications*--That part of the Contract Documents consisting of written technical descriptions of materials, equipment, systems, standards, and workmanship as applied to the Work and certain administrative details applicable thereto.

42. *Subcontractor*--An individual or entity having a direct contract with CONTRACTOR or with any other Subcontractor for the performance of a part of the Work at the Site.

43. *Substantial Completion*--The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of ENGINEER, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms "substantially complete" and "substantially completed" as applied to all or part of the Work refer to Substantial Completion thereof.

44. *Supplementary Conditions*--That part of the Contract Documents which amends or supplements these General Conditions.

45. *Supplier*--A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with CONTRACTOR or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by CONTRACTOR or any Subcontractor.

46. *Underground Facilities*--All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.

47. *Unit Price Work*--Work to be paid for on the basis of unit prices.

48. *Work*--The entire completed construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

49. *Work Change Directive*--A written statement to CONTRACTOR issued on or after the Effective Date of the Agreement and signed by OWNER and recommended by ENGINEER ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

50. *Written Amendment*--A written statement modifying the Contract Documents, signed by OWNER and CONTRACTOR on or after the Effective Date of the Agreement and normally dealing with the nonengineering or nontechnical rather than strictly construction-related aspects of the Contract Documents.

1.02 *Terminology*

A. *Intent of Certain Terms or Adjectives*

1. Whenever in the Contract Documents the terms “as allowed,” “as approved,” or terms of like effect or import are used, or the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of ENGINEER as to the Work, it is intended that such action or determination will be solely to evaluate, in general, the completed Work for compliance with the requirements of and information in the Contract Documents and conformance with the design concept of the completed Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign to ENGINEER any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 9.10 or any other provision of the Contract Documents.

B. *Day*

1. The word “day” shall constitute a calendar day of 24 hours measured from midnight to the next midnight.

C. *Defective*

1. The word “defective,” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it does not conform to the Contract Documents or does not meet the requirements of any inspection, reference standard, test, or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER at Substantial Completion in accordance with paragraph 14.04 or 14.05).

D. *Furnish, Install, Perform, Provide*

1. The word “furnish,” when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other

specified location) ready for use or installation and in usable or operable condition.

2. The word “install,” when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words “perform” or “provide,” when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.

4. When “furnish,” “install,” “perform,” or “provide” is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of CONTRACTOR, “provide” is implied.

E. Unless stated otherwise in the Contract Documents, words or phrases which have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 - PRELIMINARY MATTERS

2.01 *Delivery of Bonds*

A. When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds as CONTRACTOR may be required to furnish.

2.02 *Copies of Documents*

A. OWNER shall furnish to CONTRACTOR up to ten copies of the Contract Documents. Additional copies will be furnished upon request at the cost of reproduction.

2.03 *Commencement of Contract Times; Notice to Proceed*

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times com-

mence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

2.04 *Starting the Work*

A. CONTRACTOR shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to the date on which the Contract Times commence to run.

2.05 *Before Starting Construction*

A. *CONTRACTOR's Review of Contract Documents:* Before undertaking each part of the Work, CONTRACTOR shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. CONTRACTOR shall promptly report in writing to ENGINEER any conflict, error, ambiguity, or discrepancy which CONTRACTOR may discover and shall obtain a written interpretation or clarification from ENGINEER before proceeding with any Work affected thereby; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless CONTRACTOR knew or reasonably should have known thereof.

B. *Preliminary Schedules:* Within ten days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), CONTRACTOR shall submit to ENGINEER for its timely review:

1. a preliminary progress schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract Documents;
2. a preliminary schedule of Shop Drawing and Sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and
3. a preliminary schedule of values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into

component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

C. *Evidence of Insurance:* Before any Work at the Site is started, CONTRACTOR and OWNER shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which CONTRACTOR and OWNER respectively are required to purchase and maintain in accordance with Article 5.

2.06 *Preconstruction Conference*

A. Within 20 days after the Contract Times start to run, but before any Work at the Site is started, a conference attended by CONTRACTOR, ENGINEER, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in paragraph 2.05.B, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, and maintaining required records.

2.07 *Initial Acceptance of Schedules*

A. Unless otherwise provided in the Contract Documents, at least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER, and others as appropriate will be held to review for acceptability to ENGINEER as provided below the schedules submitted in accordance with paragraph 2.05.B. CONTRACTOR shall have an additional ten days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to CONTRACTOR until acceptable schedules are submitted to ENGINEER.

1. The progress schedule will be acceptable to ENGINEER if it provides an orderly progression of the Work to completion within any specified Milestones and the Contract Times. Such acceptance will not impose on ENGINEER responsibility for the progress schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve CONTRACTOR from CONTRACTOR's full responsibility therefor.

2. CONTRACTOR's schedule of Shop Drawing and Sample submittals will be acceptable to ENGINEER if it provides a workable arrangement for reviewing and processing the required submittals.

3. CONTRACTOR's schedule of values will be acceptable to ENGINEER as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the Work.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT,
AMENDING, REUSE

3.01 *Intent*

A. The Contract Documents are complementary; what is called for by one is as binding as if called for by all.

B. It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to OWNER.

C. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided in Article 9.

3.02 *Reference Standards*

A. *Standards, Specifications, Codes, Laws, and Regulations*

1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

2. No provision of any such standard, specification, manual or code, or any instruction of a Supplier shall be effective to change the duties or responsibilities of OWNER, CONTRACTOR, or ENGINEER, or any of their subcontractors, consultants, agents, or employees from those set forth in the Contract Documents, nor shall any such provision or instruction be effective to assign to OWNER, ENGINEER, or any of ENGINEER's Consultants, agents, or employees any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

3.03 *Reporting and Resolving Discrepancies*

A. *Reporting Discrepancies*

1. If, during the performance of the Work, CONTRACTOR discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the Work or of any standard, specification, manual or code, or of any instruction of any Supplier, CONTRACTOR shall report it to ENGINEER in writing at once. CONTRACTOR shall not proceed with the Work affected thereby (except in an emergency as required by paragraph 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in paragraph 3.04; provided, however, that CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any such conflict, error, ambiguity, or discrepancy unless CONTRACTOR knew or reasonably should have known thereof.

B. *Resolving Discrepancies*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:

a. the provisions of any standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or

b. the provisions of any Laws or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Amending and Supplementing Contract Documents*

A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof in one or

B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways: (i) a Field Order; (ii) ENGINEER's approval of a Shop Drawing or Sample; or (iii) ENGINEER's written interpretation or clarification.

3.05 *Reuse of Documents*

A. CONTRACTOR and any Subcontractor or Supplier or other individual or entity performing or furnishing any of the Work under a direct or indirect contract with OWNER: (i) shall not have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER or ENGINEER's Consultant, including electronic media editions; and (ii) shall not reuse any of such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of OWNER and ENGINEER and specific written verification or adaption by ENGINEER. This prohibition will survive final payment, completion, and acceptance of the Work, or termination or completion of the Contract. Nothing herein shall preclude CONTRACTOR from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 - AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; REFERENCE POINTS

4.01 *Availability of Lands*

A. OWNER shall furnish the Site. OWNER shall notify CONTRACTOR of any encumbrances or

restrictions not of general application but specifically related to use of the Site with which CONTRACTOR must comply in performing the Work. OWNER will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If CONTRACTOR and OWNER are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in OWNER's furnishing the Site, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

B. Upon reasonable written request, OWNER shall furnish CONTRACTOR with a current statement of record legal title and legal description of the lands upon which the Work is to be performed and OWNER's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.

C. CONTRACTOR shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

4.02 *Subsurface and Physical Conditions*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports of explorations and tests of subsurface conditions at or contiguous to the Site that ENGINEER has used in preparing the Contract Documents; and

2. those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site (except Underground Facilities) that ENGINEER has used in preparing the Contract Documents.

B. *Limited Reliance by CONTRACTOR on Technical Data Authorized:* CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER, or any of ENGINEER's Consultants with respect to:

1. the completeness of such reports and drawings for CONTRACTOR's purposes, includ-

ing, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, and safety precautions and programs incident thereto; or

2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.

4.03 Differing Subsurface or Physical Conditions

A. *Notice:* If CONTRACTOR believes that any subsurface or physical condition at or contiguous to the Site that is uncovered or revealed either:

1. is of such a nature as to establish that any "technical data" on which CONTRACTOR is entitled to rely as provided in paragraph 4.02 is materially inaccurate; or

2. is of such a nature as to require a change in the Contract Documents; or

3. differs materially from that shown or indicated in the Contract Documents; or

4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents; then CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), notify OWNER and ENGINEER in writing about such condition. CONTRACTOR shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.

B. *ENGINEER's Review:* After receipt of written notice as required by paragraph 4.03.A, ENGINEER will promptly review the pertinent condition, determine the

necessity of OWNER's obtaining additional exploration or tests with respect thereto, and advise OWNER in writing (with a copy to CONTRACTOR) of ENGINEER's findings and conclusions.

C. Possible Price and Times Adjustments

1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in CONTRACTOR's cost of, or time required for, performance of the Work; subject, however, to the following:

a. such condition must meet any one or more of the categories described in paragraph 4.03.A; and

b. with respect to Work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of paragraphs 9.08 and 11.03.

2. CONTRACTOR shall not be entitled to any adjustment in the Contract Price or Contract Times if:

a. CONTRACTOR knew of the existence of such conditions at the time CONTRACTOR made a final commitment to OWNER in respect of Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract; or

b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for CONTRACTOR prior to CONTRACTOR's making such final commitment; or

c. CONTRACTOR failed to give the written notice within the time and as required by paragraph 4.03.A.

3. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be

made therefor as provided in paragraph 10.05. However, OWNER, ENGINEER, and ENGINEER's Consultants shall not be liable to CONTRACTOR for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by CONTRACTOR on or in connection with any other project or anticipated project.

4.04 *Underground Facilities*

A. *Shown or Indicated:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the Site is based on information and data furnished to OWNER or ENGINEER by the owners of such Underground Facilities, including OWNER, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:

1. OWNER and ENGINEER shall not be responsible for the accuracy or completeness of any such information or data; and

2. the cost of all of the following will be included in the Contract Price, and CONTRACTOR shall have full responsibility for:

a. reviewing and checking all such information and data,

b. locating all Underground Facilities shown or indicated in the Contract Documents,

c. coordination of the Work with the owners of such Underground Facilities, including OWNER, during construction, and

d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

B. *Not Shown or Indicated*

1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, CONTRACTOR shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or

performing any Work in connection therewith (except in an emergency as required by paragraph 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to OWNER and ENGINEER. ENGINEER will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, CONTRACTOR shall be responsible for the safety and protection of such Underground Facility.

2. If ENGINEER concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price of Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that CONTRACTOR did not know of and could not reasonably have been expected to be aware of or to have anticipated. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, OWNER or CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

4.05 *Reference Points*

A. OWNER shall provide engineering surveys to establish reference points for construction which in ENGINEER's judgment are necessary to enable CONTRACTOR to proceed with the Work. CONTRACTOR shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of OWNER. CONTRACTOR shall report to ENGINEER whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.06 *Hazardous Environmental Condition at Site*

A. *Reports and Drawings*: Reference is made to the Supplementary Conditions for the identification of those reports and drawings relating to a Hazardous Environmental Condition identified at the Site, if any, that have been utilized by the ENGINEER in the preparation of the Contract Documents.

B. *Limited Reliance by CONTRACTOR on Technical Data Authorized*: CONTRACTOR may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "technical data," CONTRACTOR may not rely upon or make any Claim against OWNER, ENGINEER or any of ENGINEER's Consultants with respect to:

1. the completeness of such reports and drawings for CONTRACTOR's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by CONTRACTOR and safety precautions and programs incident thereto; or
2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or
3. any CONTRACTOR interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions or information.

C. CONTRACTOR shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. CONTRACTOR shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by CONTRACTOR, Subcontractors, Suppliers, or anyone else for whom CONTRACTOR is responsible.

D. If CONTRACTOR encounters a Hazardous Environmental Condition or if CONTRACTOR or anyone for whom CONTRACTOR is responsible creates a Hazardous Environmental Condition, CONTRACTOR shall immediately: (i) secure or otherwise isolate such condition;

(ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by paragraph 6.16); and (iii) notify OWNER and ENGINEER (and promptly thereafter confirm such notice in writing). OWNER shall promptly consult with ENGINEER concerning the necessity for OWNER to retain a qualified expert to evaluate such condition or take corrective action, if any.

E. CONTRACTOR shall not be required to resume Work in connection with such condition or in any affected area until after OWNER has obtained any required permits related thereto and delivered to CONTRACTOR written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. If OWNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by CONTRACTOR, either party may make a Claim therefor as provided in paragraph 10.05.

F. If after receipt of such written notice CONTRACTOR does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then OWNER may order the portion of the Work that is in the area affected by such condition to be deleted from the Work. If OWNER and CONTRACTOR cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in paragraph 10.05.

OWNER may have such deleted portion of the Work performed by OWNER's own forces or others in accordance with Article 7.

G. To the fullest extent permitted by Laws and Regulations, OWNER shall indemnify and hold harmless CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants and the officers, directors, partners, employees, agents, other consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition: (i) was not shown or indicated in the Drawings or

Specifications or identified in the Contract Documents to be included within the scope of the Work, and (ii) was not created by CONTRACTOR or by anyone for whom CONTRACTOR is responsible. Nothing in this paragraph 4.06.E shall obligate OWNER to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

H. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, other consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition created by CONTRACTOR or by anyone for whom CONTRACTOR is responsible. Nothing in this paragraph 4.06.F shall obligate CONTRACTOR to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

I. The provisions of paragraphs 4.02, 4.03, and 4.04 are not intended to apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 5 - BONDS AND INSURANCE

5.01 *Performance, Payment, and Other Bonds*

A. CONTRACTOR shall furnish performance and payment Bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all CONTRACTOR's obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date when final payment becomes due, except as provided otherwise by Laws or Regulations or by the Contract Documents. CONTRACTOR shall also furnish such other Bonds as are required by the Contract Documents.

B. All Bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Compa-

nies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority to act.

C. If the surety on any Bond furnished by CONTRACTOR is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of paragraph 5.01.B, CONTRACTOR shall within 20 days thereafter substitute another Bond and surety, both of which shall comply with the requirements of paragraphs 5.01.B and 5.02.

5.02 *Licensed Sureties and Insurers*

A. All Bonds and insurance required by the Contract Documents to be purchased and maintained by OWNER or CONTRACTOR shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue Bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

5.03 *Certificates of Insurance*

A. CONTRACTOR shall deliver to OWNER, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by OWNER or any other additional insured) which CONTRACTOR is required to purchase and maintain. OWNER shall deliver to CONTRACTOR, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by CONTRACTOR or any other additional insured) which OWNER is required to purchase and maintain.

5.04 *CONTRACTOR's Liability Insurance*

A. CONTRACTOR shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from CONTRACTOR's performance of the Work and CONTRACTOR's other obligations under the Contract Documents, whether it is to be performed by CONTRACTOR, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to

perform any of the Work, or by anyone for whose acts any of them may be liable:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

2. claims for damages because of bodily injury, occupational sickness or disease, or death of CONTRACTOR's employees;

3. claims for damages because of bodily injury, sickness or disease, or death of any person other than CONTRACTOR's employees;

4. claims for damages insured by reasonably available personal injury liability coverage which are sustained: (i) by any person as a result of an offense directly or indirectly related to the employment of such person by CONTRACTOR, or (ii) by any other person for any other reason;

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

B. The policies of insurance so required by this paragraph 5.04 to be purchased and maintained shall:

1. with respect to insurance required by paragraphs 5.04.A.3 through 5.04.A.6 inclusive, include as additional insureds (subject to any customary exclusion in respect of professional liability) OWNER, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;

3. include completed operations insurance;

4. include contractual liability insurance covering CONTRACTOR's indemnity obligations under paragraphs 6.07, 6.11, and 6.20;

5. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least thirty days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the CONTRACTOR pursuant to paragraph 5.03 will so provide);

6. remain in effect at least until final payment and at all times thereafter when CONTRACTOR may be correcting, removing, or replacing defective Work in accordance with paragraph 13.07; and

7. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for at least two years after final payment (and CONTRACTOR shall furnish OWNER and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to OWNER and any such additional insured of continuation of such insurance at final payment and one year thereafter).

5.05 *OWNER's Liability Insurance*

A. In addition to the insurance required to be provided by CONTRACTOR under paragraph 5.04, OWNER, at OWNER's option, may purchase and maintain at OWNER's expense OWNER's own liability insurance as will protect OWNER against claims which may arise from operations under the Contract Documents.

5.06 *Property Insurance*

A. Unless otherwise provided in the Supplementary Conditions, OWNER shall purchase and maintain property

insurance upon the Work at the Site in the amount of the full replacement cost thereof (subject to such deductible amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

1. include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as an additional insured;

2. be written on a Builder's Risk "all-risk" or open peril or special causes of loss policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, false work, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire, lightning, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, water damage, and such other perils or causes of loss as may be specifically required by the Supplementary Conditions;

3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);

4. cover materials and equipment stored at the Site or at another location that was agreed to in writing by OWNER prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by ENGINEER;

5. allow for partial utilization of the Work by OWNER;

6. include testing and startup; and

7. be maintained in effect until final payment is made unless otherwise agreed to in writing by OWNER, CONTRACTOR, and ENGINEER with

30 days written notice to each other additional insured to whom a certificate of insurance has been issued.

B. OWNER shall purchase and maintain such boiler and machinery insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the interests of OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and any other individuals or entities identified in the Supplementary Conditions, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured.

C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to OWNER and CONTRACTOR and to each other additional insured to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with paragraph 5.07.

D. OWNER shall not be responsible for purchasing and maintaining any property insurance specified in this paragraph 5.06 to protect the interests of CONTRACTOR, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by CONTRACTOR, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

E. If CONTRACTOR requests in writing that other special insurance be included in the property insurance policies provided under paragraph 5.06, OWNER shall, if possible, include such insurance, and the cost thereof will be charged to CONTRACTOR by appropriate Change Order or Written Amendment. Prior to commencement of the Work at the Site, OWNER shall in writing advise CONTRACTOR whether or not such other insurance has been procured by OWNER.

5.07 *Waiver of Rights*

A. OWNER and CONTRACTOR intend that all policies purchased in accordance with paragraph 5.06 will protect OWNER, CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and all other

individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any of the insureds or additional insureds thereunder. OWNER and CONTRACTOR waive all rights against each other and their respective officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for all losses and damages caused by, arising out of or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Subcontractors, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) under such policies for losses and damages so caused.

None of the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by OWNER as trustee or otherwise payable under any policy so issued.

B. OWNER waives all rights against CONTRACTOR, Subcontractors, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them for:

1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to OWNER's property or the Work caused by, arising out of, or resulting from fire or other peril whether or not insured by OWNER; and

2. loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by OWNER during partial utilization pursuant to

paragraph 14.05, after Substantial Completion pursuant to paragraph 14.04, or after final payment pursuant to paragraph 14.07.

C. Any insurance policy maintained by OWNER covering any loss, damage or consequential loss referred to in paragraph 5.07.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against CONTRACTOR, Subcontractors, ENGINEER, or ENGINEER's Consultants and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them.

5.08 *Receipt and Application of Insurance Proceeds*

A.* Any insured loss under the policies of insurance required by paragraph 5.06 will be adjusted with OWNER and made payable to OWNER as fiduciary for the insureds, as their interests may appear, subject to the requirements of any applicable mortgage clause and of paragraph 5.08.B. OWNER shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order or Written Amendment.

B. OWNER as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to OWNER's exercise of this power. If such objection be made, OWNER as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, OWNER as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, OWNER as fiduciary shall give bond for the proper performance of such duties.

5.09 *Acceptance of Bonds and Insurance; Option to Replace*

A.* If either OWNER or CONTRACTOR has any objection to the coverage afforded by or other provisions of the Bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the

certificates (or other evidence requested) required by paragraph 2.05.C. OWNER and CONTRACTOR shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the Bonds and insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent Bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

5.10 *Partial Utilization, Acknowledgment of Property Insurer*

A. If OWNER finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

ARTICLE 6 - CONTRACTOR'S RESPONSIBILITIES

6.01 *Supervision and Superintendence*

A. CONTRACTOR shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with

the Contract Documents. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of OWNER or ENGINEER in the design or specification of a specific means, method, technique, sequence, or procedure of

construction which is shown or indicated in and expressly required by the Contract Documents. CONTRACTOR shall be responsible to see that the completed Work complies accurately with the Contract Documents.

B. At all times during the progress of the Work, CONTRACTOR shall assign a competent resident superintendent thereto who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR's representative at the Site and shall have authority to act on behalf of CONTRACTOR. All communications given to or received from the superintendent shall be binding on CONTRACTOR.

6.02 *Labor; Working Hours*

A. CONTRACTOR shall provide competent, suitably qualified personnel to survey, lay out, and construct the

Work as required by the Contract Documents. CONTRACTOR shall at all times maintain good discipline and order at the Site.

B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, and CONTRACTOR will not permit overtime work or the performance of Work on Saturday, Sunday, or any legal holiday without OWNER's written consent (which will not be unreasonably withheld) given after prior written notice to ENGINEER.

6.03 *Services, Materials, and Equipment*

A. Unless otherwise specified in the General Requirements, CONTRACTOR shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start-up, and completion of the Work.

B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, shall be of good quality and new, except as otherwise provided in the Contract Documents. All warranties and guarantees specifically called for by the Specifications shall expressly

run to the benefit of OWNER. If required by ENGINEER, CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

6.04 *Progress Schedule*

A. CONTRACTOR shall adhere to the progress schedule established in accordance with paragraph 2.07 as it may be adjusted from time to time as provided below.

1. CONTRACTOR shall submit to ENGINEER for acceptance (to the extent indicated in paragraph 2.07) proposed adjustments in the progress schedule that will not result in changing the Contract Times (or Milestones). Such adjustments will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the General Requirements applicable thereto.

2. Proposed adjustments in the progress schedule that will change the Contract Times (or Milestones) shall be submitted in accordance with the requirements of Article 12. Such adjustments may only be made by a Change Order or Written Amendment in accordance with Article 12.

6.05 *Substitutes and "Or-Equals"*

A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the specification or description is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or "or-equal" item or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to ENGINEER for review under the circumstances described below.

1. *"Or-Equal" Items:* If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR is functionally equal to that named and sufficiently similar so that no change in related Work will be required, it may be

considered by ENGINEER as an "or-equal" item, in which case review and approval of the proposed item may, in ENGINEER's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this paragraph 6.05.A.1, a proposed item of material or equipment will be considered functionally equal to an item so named if:

a. in the exercise of reasonable judgment ENGINEER determines that: (i) it is at least equal in quality, durability, appearance, strength, and design characteristics; (ii) it will reliably perform at least equally well the function imposed by the design concept of the completed Project as a functioning whole, and;

b. CONTRACTOR certifies that: (i) there is no increase in cost to the OWNER; and (ii) it will conform substantially, even with deviations, to the detailed requirements of the item named in the Contract Documents.

2. *Substitute Items*

a. If in ENGINEER's sole discretion an item of material or equipment proposed by CONTRACTOR does not qualify as an "or-equal" item under paragraph 6.05.A.1, it will be considered a proposed substitute item.

b. CONTRACTOR shall submit sufficient information as provided below to allow ENGINEER to determine that the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by ENGINEER from anyone other than CONTRACTOR.

c. The procedure for review by ENGINEER will be as set forth in paragraph 6.05.A.2.d, as supplemented in the General Requirements and as ENGINEER may decide is appropriate under the circumstances.

d. CONTRACTOR shall first make written application to ENGINEER for review of a proposed substitute item of material or equipment that CONTRACTOR seeks to furnish or use. The application shall certify

that the proposed substitute item will perform adequately the functions and achieve the results called for by the general design, be similar in substance to that specified, and be suited to the same use as that specified. The application will state the extent, if any, to which the use of the proposed substitute item will prejudice CONTRACTOR's achievement of Substantial Completion on time, whether or not use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) to adapt the design to the proposed substitute item and whether or not incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty. All variations of the proposed substitute item from that specified will be identified in the application, and available engineering, sales, maintenance, repair, and replacement services will be indicated. The application will also contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including costs of redesign and claims of other contractors affected by any resulting change, all of which will be considered by ENGINEER in evaluating the proposed substitute item. ENGINEER may require CONTRACTOR to furnish additional data about the proposed substitute item.

B. *Substitute Construction Methods or Procedures:* If a specific means, method, technique, sequence, or procedure of construction is shown or indicated in and expressly required by the Contract Documents, CONTRACTOR may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by ENGINEER. CONTRACTOR shall submit sufficient information to allow ENGINEER, in ENGINEER's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The procedure for review by ENGINEER will be similar to that provided in subparagraph 6.05.A.2.

C. *Engineer's Evaluation:* ENGINEER will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to paragraphs 6.05.A and 6.05.B. ENGINEER will be the sole judge of acceptability. No "or-equal" or substitute will be ordered, installed or utilized until ENGINEER's review is complete, which will be evidenced by either a Change Order for a

substitute or an approved Shop Drawing for an "or equal." ENGINEER will advise CONTRACTOR in writing of any negative determination.

D. *Special Guarantee:* OWNER may require CONTRACTOR to furnish at CONTRACTOR's expense a special performance guarantee or other surety with respect to any substitute.

E. *ENGINEER's Cost Reimbursement:* ENGINEER will record time required by ENGINEER and ENGINEER's Consultants in evaluating substitute proposed or submitted by CONTRACTOR pursuant to paragraphs 6.05.A.2 and 6.05.B and in making changes in the Contract Documents (or in the provisions of any other direct contract with OWNER for work on the Project) occasioned thereby. Whether or not ENGINEER approves a substitute item so proposed or submitted by CONTRACTOR, CONTRACTOR shall reimburse OWNER for the charges of ENGINEER and ENGINEER's Consultants for evaluating each such proposed substitute.

F. *CONTRACTOR's Expense:* CONTRACTOR shall provide all data in support of any proposed substitute or "or-equal" at CONTRACTOR's expense.

6.06 Concerning Subcontractors, Suppliers, and Others

A. CONTRACTOR shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to OWNER as indicated in paragraph 6.06.B), whether initially or as a replacement, against whom OWNER may have reasonable objection. CONTRACTOR shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.

B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to OWNER in advance for acceptance by OWNER by a specified date prior to the Effective Date of the Agreement, and if CONTRACTOR has submitted a list thereof in accordance with the Supplementary Conditions, OWNER's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. CONTRACTOR shall submit an acceptable replacement

for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued or Written Amendment signed. No acceptance by OWNER of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of any right of OWNER or ENGINEER to reject defective Work.

C. CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as CONTRACTOR is responsible for CONTRACTOR's own acts and omissions. Nothing in the Contract Documents shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between OWNER or ENGINEER and any such Subcontractor, Supplier or other individual or entity, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

D. CONTRACTOR shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR.

E. CONTRACTOR shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with ENGINEER through CONTRACTOR.

F. The divisions and sections of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.

G. All Work performed for CONTRACTOR by a Subcontractor or Supplier will be pursuant to an appropriate agreement between CONTRACTOR and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of OWNER and ENGINEER. Whenever any such agreement is with a Subcontractor or Supplier who is listed as an additional insured on the property insurance provided in paragraph 5.06, the agreement between the CONTRAC-

TOR and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against OWNER, CONTRACTOR, ENGINEER, ENGINEER's Consultants, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, CONTRACTOR will obtain the same.

6.07 *Patent Fees and Royalties*

A. CONTRACTOR shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if to the actual knowledge of OWNER or ENGINEER its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by OWNER in the Contract Documents. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees or agents, and other consultants of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

6.08 *Permits*

A. Unless otherwise provided in the Supplementary Conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses. OWNER shall assist CONTRACTOR, when necessary, in obtaining such permits and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for

the prosecution of the Work which are applicable at the time of opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto, such as plant investment fees.

6.09 *Laws and Regulations*

A. CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for monitoring CONTRACTOR's compliance with any Laws or Regulations.

B. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to Laws or Regulations, CONTRACTOR shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work; however, it shall not be CONTRACTOR's primary responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve CONTRACTOR of CONTRACTOR's obligations under paragraph 3.03.

C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work may be the subject of an adjustment in Contract Price or Contract Times. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in paragraph 10.05.

6.10 *Taxes*

A. CONTRACTOR shall pay all sales, consumer, use, and other similar taxes required to be paid by CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.11 *Use of Site and Other Areas*

A. *Limitation on Use of Site and Other Areas*

1. CONTRACTOR shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations,

and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.

2. Should any claim be made by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.

3. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultant, and the officers, directors, partners, employees, agents, and other consultants of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against OWNER, ENGINEER, or any other party indemnified hereunder to the extent caused by or based upon CONTRACTOR's performance of the Work.

B. *Removal of Debris During Performance of the Work:* During the progress of the Work CONTRACTOR shall keep the Site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

C. *Cleaning*: Prior to Substantial Completion of the Work CONTRACTOR shall clean the Site and make it ready for utilization by OWNER. At the completion of the Work CONTRACTOR shall remove from the Site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

D. *Loading Structures*: CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.12 *Record Documents*

A. CONTRACTOR shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Written Amendments, Change Orders, Work Change Directives, Field Orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved Samples and a counterpart of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, Samples, and Shop Drawings will be delivered to ENGINEER for OWNER.

6.13 *Safety and Protection*

A. CONTRACTOR shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. all persons on the Site or who may be affected by the Work;
2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities, and Underground Facilities not designated for removal, relocation, or replacement in the course of construction.

B. CONTRACTOR shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property. All damage, injury, or loss to any property referred to in paragraph 6.13.A.2 or 6.13.A.3 caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or ENGINEER's Consultant, or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them). CONTRACTOR's duties and responsibilities for safety and for protection of the Work shall continue until such time as all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR in accordance with paragraph 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.14 *Safety Representative*

A. CONTRACTOR shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

6.15 *Hazard Communication Programs*

A. CONTRACTOR shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

6.16 *Emergencies*

A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, CONTRACTOR is obligated to act to prevent threatened damage, injury, or loss. CONTRACTOR shall give ENGINEER prompt written notice if CONTRACTOR believes that any significant changes in the Work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If ENGINEER determines that a change in the Contract Documents is required because of the action taken by CONTRACTOR in response to such an emergency, a Work Change Directive or Change Order will be issued.

6.17 *Shop Drawings and Samples*

A. CONTRACTOR shall submit Shop Drawings to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. All submittals will be identified as ENGINEER may require and in the number of copies specified in the General Requirements. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show ENGINEER the services, materials, and equipment CONTRACTOR proposes to provide and to enable ENGINEER to review the information for the limited purposes required by paragraph 6.17.E.

B. CONTRACTOR shall also submit six (6) Samples to ENGINEER for review and approval in accordance with the acceptable schedule of Shop Drawings and Sample submittals. Each Sample will be identified clearly as to material, Supplier, pertinent data such as catalog numbers, and the use for which intended and otherwise as ENGINEER may require to enable ENGINEER to review the submittal for the limited purposes required by paragraph 6.17.E. The numbers of each Sample to be submitted will be as specified in the Specifications.

C. Where a Shop Drawing or Sample is required by the Contract Documents or the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER as required by paragraph 2.07, any related Work performed prior to ENGINEER's review and approval of the pertinent submittal will be at the sole expense and responsibility of CONTRACTOR.

D. *Submittal Procedures*

1. Before submitting each Shop Drawing or Sample, CONTRACTOR shall have determined and verified:

a. all field measurements, quantities, dimensions, specified performance criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

b. all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work;

c. all information relative to means, methods, techniques, sequences, and procedures of construction and safety precautions and programs incident thereto; and

d. CONTRACTOR shall also have reviewed and coordinated each Shop Drawing or

Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents.

2. Each submittal shall bear a stamp or specific written indication that CONTRACTOR has satisfied CONTRACTOR's obligations under the Contract Documents with respect to CONTRACTOR's review and approval of that submittal.

3. At the time of each submittal, CONTRACTOR shall give ENGINEER specific written notice of such variations, if any, that the Shop Drawing or Sample submitted may have from the requirements of the Contract Documents, such notice to be in a written communication separate from the submittal; and, in addition, shall cause a specific notation to be made on each Shop Drawing and Sample submitted to ENGINEER for review and approval of each such variation.

E. *ENGINEER's Review*

1. ENGINEER will timely review and approve Shop Drawings and Samples in accordance with the schedule of Shop Drawings and Sample submittals acceptable to ENGINEER. ENGINEER's review and approval will be only to determine if the items covered by the submittals

will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. ENGINEER's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

3. ENGINEER's review and approval of Shop Drawings or Samples shall not relieve CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER's attention to each such variation at the time of each submittal as required by paragraph 6.17.D.3 and ENGINEER has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for complying with the requirements of paragraph 6.17.D.1.

F. *Resubmittal Procedures*

1. CONTRACTOR shall make corrections required by ENGINEER and shall return the required number of corrected copies of Shop Drawings and submit as required new Samples for review and approval. CONTRACTOR shall direct specific attention in writing to revisions other than the corrections called for by ENGINEER on previous submittals.

6.18 *Continuing the Work*

A. CONTRACTOR shall carry on the Work and adhere to the progress schedule during all disputes or disagreements with OWNER. No Work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by paragraph 15.04 or as OWNER and CONTRACTOR may otherwise agree in writing.

6.19 *CONTRACTOR's General Warranty and Guarantee*

A. CONTRACTOR warrants and guarantees to OWNER, ENGINEER, and ENGINEER's Consultants that all Work will be in accordance with the Contract Documents and will not be defective. CONTRACTOR's warranty and guarantee hereunder excludes defects or damage caused by:

1. abuse, modification, or improper maintenance or operation by persons other than CONTRACTOR, Subcontractors, Suppliers, or any other individual or entity for whom CONTRACTOR is responsible; or
2. normal wear and tear under normal usage.

B. CONTRACTOR's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of CONTRACTOR's obligation to perform the Work in accordance with the Contract Documents:

1. observations by ENGINEER;
2. recommendation by ENGINEER or payment by OWNER of any progress or final payment;
3. the issuance of a certificate of Substantial Completion by ENGINEER or any payment related thereto by OWNER;
4. use or occupancy of the Work or any part thereof by OWNER;
5. any acceptance by OWNER or any failure to do so;
6. any review and approval of a Shop Drawing or Sample submittal or the issuance of a notice of acceptability by ENGINEER;
7. any inspection, test, or approval by others; or
8. any correction of defective Work by OWNER.

6.20 *Indemnification*

A. To the fullest extent permitted by Laws and Regulations, CONTRACTOR shall indemnify and hold harmless OWNER, ENGINEER, ENGINEER's Consultants, and the officers, directors, partners, employees, agents, and other consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage:

1. is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom; and

2. is caused in whole or in part by any negligent act or omission of CONTRACTOR, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable, regardless of whether or not caused in part by any negligence or omission of an individual or entity indemnified hereunder or whether liability is imposed upon such indemnified party by Laws and Regulations regardless of the negligence of any such individual or entity.

B. In any and all claims against OWNER or ENGINEER or any of their respective consultants, agents, officers, directors, partners, or employees by any employee (or the survivor or personal representative of such employee) of CONTRACTOR, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under paragraph 6.20.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for CONTRACTOR or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

C. The indemnification obligations of CONTRACTOR under paragraph 6.20.A shall not extend to the liability of ENGINEER and ENGINEER's Consultants or to the officers, directors, partners, employees, agents, and

other consultants and subcontractors of each and any of them arising out of:

1. the preparation or approval of, or the failure to prepare or approve, maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or

2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

ARTICLE 7 - OTHER WORK

7.01 *Related Work at Site*

A. OWNER may perform other work related to the Project at the Site by OWNER's employees, or let other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

1. written notice thereof will be given to CONTRACTOR prior to starting any such other work; and

2. if OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in paragraph 10.05.

B. CONTRACTOR shall afford each other contractor who is a party to such a direct contract and each utility owner (and OWNER, if OWNER is performing the other work with OWNER's employees) proper and safe access to the Site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly coordinate the Work with theirs. Unless otherwise provided in the Contract Documents, CONTRACTOR shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of ENGINEER and the others whose work will be affected. The duties and responsibilities of CONTRACTOR under this paragraph are for the benefit of

such utility owners and other contractors to the extent that there are comparable provisions for the benefit of CONTRACTOR in said direct contracts between OWNER and such utility owners and other contractors.

C. If the proper execution or results of any part of CONTRACTOR's Work depends upon work performed by others under this Article 7, CONTRACTOR shall inspect such other work and promptly report to ENGINEER in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of CONTRACTOR's Work. CONTRACTOR's failure to so report will constitute an acceptance of such other work as fit and proper for integration with CONTRACTOR's Work except for latent defects and deficiencies in such other work.

7.02 *Coordination*

A. If OWNER intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:

1. the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;
2. the specific matters to be covered by such authority and responsibility will be itemized; and
3. the extent of such authority and responsibilities will be provided.

B. Unless otherwise provided in the Supplementary Conditions, OWNER shall have sole authority and responsibility for such coordination.

ARTICLE 8 - OWNER'S RESPONSIBILITIES

8.01 *Communications to Contractor*

A. Except as otherwise provided in these General Conditions, OWNER shall issue all communications to CONTRACTOR through ENGINEER.

8.02 *Replacement of ENGINEER*

A. In case of termination of the employment of ENGINEER, OWNER shall appoint an engineer to whom CONTRACTOR makes no reasonable objection, whose status under the Contract Documents shall be that of the former ENGINEER.

8.03 *Furnish Data*

A. OWNER shall promptly furnish the data required of OWNER under the Contract Documents.

8.04 *Pay Promptly When Due*

A. OWNER shall make payments to CONTRACTOR promptly when they are due as provided in paragraphs 14.02.C and 14.07.C.

8.05 *Lands and Easements; Reports and Tests*

A. OWNER's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.01 and 4.05. Paragraph 4.02 refers to OWNER's identifying and making available to CONTRACTOR copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site that have been utilized by ENGINEER in preparing the Contract Documents.

8.06 *Insurance*

A. OWNER's responsibilities, if any, in respect of purchasing and maintaining liability and property insurance are set forth in Article 5.

8.07 *Change Orders*

A. OWNER is obligated to execute Change Orders as indicated in paragraph 10.03.

8.08 *Inspections, Tests, and Approvals*

A. OWNER's responsibility in respect to certain inspections, tests, and approvals is set forth in paragraph 13.03.B.

8.09 *Limitations on OWNER's Responsibilities*

A. The OWNER shall not supervise, direct, or have control or authority over, nor be responsible for, CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work. OWNER will not be responsible for CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

8.10 *Undisclosed Hazardous Environmental Condition*

A. OWNER's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in paragraph 4.06.

8.11 *Evidence of Financial Arrangements*

A. If and to the extent OWNER has agreed to furnish CONTRACTOR reasonable evidence that financial arrangements have been made to satisfy OWNER's obligations under the Contract Documents, OWNER's responsibility in respect thereof will be as set forth in the Supplementary Conditions.

ARTICLE 9 - ENGINEER'S STATUS DURING CONSTRUCTION

9.01 *OWNER'S Representative*

A. ENGINEER will be OWNER's representative during the construction period. The duties and responsibilities and the limitations of authority of ENGINEER as OWNER's representative during construction are set forth in the Contract Documents and will not be changed without written consent of OWNER and ENGINEER.

9.02 *Visits to Site*

A. ENGINEER will make visits to the Site at intervals appropriate to the various stages of construction as ENGINEER deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of CONTRACTOR's executed Work. Based on information obtained during such visits and

observations, ENGINEER, for the benefit of OWNER, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. ENGINEER will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. ENGINEER's efforts will be directed toward providing for OWNER a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defective Work.

B. ENGINEER's visits and observations are subject to all the limitations on ENGINEER's authority and responsibility set forth in paragraph 9.10, and particularly, but without limitation, during or as a result of ENGINEER's visits or observations of CONTRACTOR's Work ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work.

9.03 *Project Representative*

A. If OWNER and ENGINEER agree, ENGINEER will furnish a Resident Project Representative to assist ENGINEER in providing more extensive observation of the Work. The responsibilities and authority and limitations thereon of any such Resident Project Representative and assistants will be as provided in paragraph 9.10 and in the Supplementary Conditions. If OWNER designates another representative or agent to represent OWNER at the Site who is not ENGINEER's Consultant, agent or employee,

the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

9.04 *Clarifications and Interpretations*

A. ENGINEER will issue with reasonable promptness such written clarifications or interpretations of the requirements of the Contract Documents as ENGINEER may determine necessary, which shall be consistent with the intent of and reasonably inferable from the Contract Docu-

ments. Such written clarifications and interpretations will be binding on OWNER and CONTRACTOR. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a written clarification or interpretation, a Claim may be made therefor as provided in paragraph 10.05.

9.05 *Authorized Variations in Work*

A. ENGINEER may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a Field Order and will be binding on OWNER and also on CONTRACTOR, who shall perform the Work involved promptly. If OWNER and CONTRACTOR are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of a Field Order, a Claim may be made therefor as provided in paragraph 10.05.

9.06 *Rejecting Defective Work*

A. ENGINEER will have authority to disapprove or reject Work which ENGINEER believes to be defective, or that ENGINEER believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. ENGINEER will also have authority to require special inspection or testing of the Work as provided in paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

9.07 *Shop Drawings, Change Orders and Payments*

A. In connection with ENGINEER's authority as to Shop Drawings and Samples, see paragraph 6.17.

B. In connection with ENGINEER's authority as to Change Orders, see Articles 10, 11, and 12.

C. In connection with ENGINEER's authority as to Applications for Payment, see Article 14.

9.08 *Determinations for Unit Price Work*

A. ENGINEER will determine the actual quantities and classifications of Unit Price Work performed by CONTRACTOR. ENGINEER will review with CONTRACTOR the ENGINEER's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). ENGINEER's written decision thereon will be final and binding (except as modified by ENGINEER to reflect changed factual conditions or more accurate data) upon OWNER and CONTRACTOR, subject to the provisions of paragraph 10.05.

9.09 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work, the quantities and classifications of Unit Price Work, the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, and Claims seeking changes in the Contract Price or Contract Times will be referred initially to ENGINEER in writing, in accordance with the provisions of paragraph 10.05, with a request for a formal decision.

B. When functioning as interpreter and judge under this paragraph 9.09, ENGINEER will not show partiality to OWNER or CONTRACTOR and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity. The rendering of a decision by ENGINEER pursuant to this paragraph 9.09 with respect to any such Claim, dispute, or other matter (except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.07) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such Claim, dispute, or other matter.

9.10 *Limitations on ENGINEER's Authority and Responsibilities*

A. Neither ENGINEER's authority or responsibility under this Article 9 or under any other provision of the Contract Documents nor any decision made by ENGINEER in good faith either to exercise or not exercise such

authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by ENGINEER shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

B. ENGINEER will not supervise, direct, control, or have authority over or be responsible for CONTRACTOR's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of CONTRACTOR to comply with Laws and Regulations applicable to the performance of the Work. ENGINEER will not be responsible for CONTRACTOR's failure to perform the Work in accordance with the Contract Documents.

C. ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. ENGINEER's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by paragraph 14.07.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with, the Contract Documents.

E. The limitations upon authority and responsibility set forth in this paragraph 9.10 shall also apply to ENGINEER's Consultants, Resident Project Representative, and assistants. See Article 18.

ARTICLE 10 - CHANGES IN THE WORK; CLAIMS

10.01 *Authorized Changes in the Work*

A. Without invalidating the Agreement and without notice to any surety, OWNER may, at any time or from time to time, order additions, deletions, or revisions in the Work by a Written Amendment, a Change Order, or a Work Change Directive. Upon receipt of any such document, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the

applicable conditions of the Contract Documents (except as otherwise specifically provided).

B. If OWNER and CONTRACTOR are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in paragraph 10.05.

10.02 *Unauthorized Changes in the Work*

A. CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented as provided in paragraph 3.04, except in the case of an emergency as provided in paragraph 6.16 or in the case of uncovering Work as provided in paragraph 13.04.B.

10.03 *Execution of Change Orders*

A. OWNER and CONTRACTOR shall execute appropriate Change Orders recommended by ENGINEER (or Written Amendments) covering:

1. changes in the Work which are: (i) ordered by OWNER pursuant to paragraph 10.01.A, (ii) required because of acceptance of defective Work under paragraph 13.08.A or OWNER's correction of defective Work under paragraph 13.09, or (iii) agreed to by the parties;

2. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive; and

3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 6.18.A.

10.04 *Notification to Surety*

A. If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be CONTRACTOR's responsibility. The amount of each applicable Bond will be adjusted to reflect the effect of any such change.

10.05 *Claims and Disputes*

A. *Notice:* Written notice stating the general nature of each Claim, dispute, or other matter shall be delivered by the claimant to ENGINEER and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. Notice of the amount or extent of the Claim, dispute, or other matter with supporting data shall be delivered to the ENGINEER and the other party to the Contract within 60 days after the start of such event (unless ENGINEER allows additional time for claimant to submit additional or more accurate data in support of such Claim, dispute, or other matter). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of paragraph 12.01.B. A Claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to ENGINEER and the claimant within 30 days after receipt of the claimant's last submittal (unless ENGINEER allows additional time).

B. *ENGINEER's Decision:* ENGINEER will render a formal decision in writing within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any. ENGINEER's written decision on such Claim, dispute, or other matter will be final and binding upon OWNER and CONTRACTOR unless:

1. an appeal from ENGINEER's decision is taken within the time limits and in accordance with the dispute resolution procedures set forth in Article 16; or

2. if no such dispute resolution procedures have been set forth in Article 16, a written notice of intention to appeal from ENGINEER's written decision is delivered by OWNER or CONTRACTOR to the other and to ENGINEER within 30 days

after the date of such decision, and a formal proceeding is instituted by the appealing party in a forum of competent jurisdiction within 60 days after the date of such decision or within 60 days after Substantial Completion, whichever is later (unless otherwise agreed in writing by OWNER and CONTRACTOR), to exercise such rights or remedies as the appealing party may have with respect to such Claim, dispute, or other matter in accordance with applicable Laws and Regulations.

C. If ENGINEER does not render a formal decision in writing within the time stated in paragraph 10.05.B, a decision denying the Claim in its entirety shall be deemed to have been issued 31 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any.

D. No Claim for an adjustment in Contract Price or Contract Times (or Milestones) will be valid if not submitted in accordance with this paragraph 10.05.

ARTICLE 11 - COST OF THE WORK; CASH ALLOWANCES; UNIT PRICE WORK

11.01 *Cost of the Work*

A. *Costs Included:* The term Cost of the Work means the sum of all costs necessarily incurred and paid by CONTRACTOR in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to CONTRACTOR will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by OWNER, such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items, and shall not include any of the costs itemized in paragraph 11.01.B.

1. Payroll costs for employees in the direct employ of CONTRACTOR in the performance of the Work under schedules of job classifications agreed upon by OWNER and CONTRACTOR. Such employees shall include without limitation superintendents, foremen, and other personnel employed full time at the Site. Payroll costs for employees not employed full time on the Work

shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by OWNER.

2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to CONTRACTOR unless OWNER deposits funds with CONTRACTOR with which to make payments, in which case the cash discounts shall accrue to OWNER. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained.

3. Payments made by CONTRACTOR to Subcontractors for Work performed by Subcontractors. If required by OWNER, CONTRACTOR shall obtain competitive bids from subcontractors acceptable to OWNER and CONTRACTOR and shall deliver such bids to OWNER, who will then determine, with the advice of ENGINEER, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as CONTRACTOR's Cost of the Work and fee as provided in this paragraph 11.01.

4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.

5. Supplemental costs including the following:

a. The proportion of necessary transportation, travel, and subsistence expenses of

CONTRACTOR's employees incurred in discharge of duties connected with the Work.

b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of CONTRACTOR.

c. Rentals of all construction equipment and machinery, and the parts thereof whether rented from CONTRACTOR or others in accordance with rental agreements approved by OWNER with the advice of ENGINEER, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.

d. Sales, consumer, use, and other similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.

e. Deposits lost for causes other than negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by CONTRACTOR in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with paragraph 5.06.D), provided such losses and damages have resulted from causes other than the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining CONTRACTOR's fee.

g. The cost of utilities, fuel, and sanitary facilities at the Site.

h. Minor expenses such as telegrams, long distance telephone calls, telephone service at the Site, expressage, and similar petty cash items in connection with the Work.

i. When the Cost of the Work is used to determine the value of a Change Order or of a Claim, the cost of premiums for additional Bonds and insurance required because of the changes in the Work or caused by the event giving rise to the Claim.

j. When all the Work is performed on the basis of cost-plus, the costs of premiums for all Bonds and insurance CONTRACTOR is required by the Contract Documents to purchase and maintain.

B. *Costs Excluded.* The term Cost of the Work shall not include any of the following items:

1. Payroll costs and other compensation of CONTRACTOR's officers, executives, principals (of partnerships and sole proprietorships), general managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by CONTRACTOR, whether at the Site or in CONTRACTOR's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in paragraph 11.01.A.1 or specifically covered by paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the CONTRACTOR's fee.

2. Expenses of CONTRACTOR's principal and branch offices other than CONTRACTOR's office at the Site.

3. Any part of CONTRACTOR's capital expenses, including interest on CONTRACTOR's capital employed for the Work and charges against CONTRACTOR for delinquent payments.

4. Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not

limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraphs 11.01.A and 11.01.B.

C. *CONTRACTOR's Fee:* When all the Work is performed on the basis of cost-plus, CONTRACTOR's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, CONTRACTOR's fee shall be determined as set forth in paragraph 12.01.C.

D. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to paragraphs 11.01.A and 11.01.B, CONTRACTOR will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to ENGINEER an itemized cost breakdown together with supporting data.

11.02 *Cash Allowances*

A. It is understood that CONTRACTOR has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums as may be acceptable to OWNER and ENGINEER. CONTRACTOR agrees that:

1. the allowances include the cost to CONTRACTOR (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and

2. CONTRACTOR's costs for unloading and handling on the Site, labor, installation costs, overhead, profit, and other expenses contemplated for the allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

B. Prior to final payment, an appropriate Change Order will be issued as recommended by ENGINEER to reflect actual amounts due CONTRACTOR on account of

Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

11.03 *Unit Price Work*

A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by CONTRACTOR will be made by ENGINEER subject to the provisions of paragraph 9.08.

B. Each unit price will be deemed to include an amount considered by CONTRACTOR to be adequate to cover CONTRACTOR's overhead and profit for each separately identified item.

C. OWNER or CONTRACTOR may make a Claim for an adjustment in the Contract Price in accordance with paragraph 10.05 if:

1. the quantity of any item of Unit Price Work performed by CONTRACTOR differs materially and significantly from the estimated quantity of such item indicated in the Agreement; and

2. there is no corresponding adjustment with respect any other item of Work; and

3. if CONTRACTOR believes that CONTRACTOR is entitled to an increase in Contract Price as a result of having incurred additional expense or OWNER believes that OWNER is entitled to a decrease in Contract Price and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 12 - CHANGE OF CONTRACT PRICE;
CHANGE OF CONTRACT TIMES

12.01 *Change of Contract Price*

A. The Contract Price may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the ENGINEER and the other party to the Contract in accordance with the provisions of paragraph 10.05.

B. The value of any Work covered by a Change Order or of any Claim for an adjustment in the Contract Price will be determined as follows:

1. where the Work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions of paragraph 11.03); or

2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with paragraph 12.01.C.2); or

3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in paragraph 11.01) plus a CONTRACTOR's fee for overhead and profit (determined as provided in paragraph 12.01.C).

C. *CONTRACTOR's Fee*: The CONTRACTOR's fee for overhead and profit shall be determined as follows:

1. a mutually acceptable fixed fee; or

2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:

a. for costs incurred under paragraphs 11.01.A.1 and 11.01.A.2, the CONTRACTOR's fee shall be 15 percent;

b. for costs incurred under paragraph 11.01.A.3, the CONTRACTOR's fee shall be five percent;

c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of paragraph 12.01.C.2.a is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and CONTRACTOR will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;

d. no fee shall be payable on the basis of costs itemized under paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;

e. the amount of credit to be allowed by CONTRACTOR to OWNER for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in CONTRACTOR's fee by an amount equal to five percent of such net decrease; and

f. when both additions and credits are involved in any one change, the adjustment in CONTRACTOR's fee shall be computed on the basis of the net change in accordance with paragraphs 12.01.C.2.a through 12.01.C.2.e, inclusive.

12.02 *Change of Contract Times*

A. The Contract Times (or Milestones) may only be changed by a Change Order or by a Written Amendment. Any Claim for an adjustment in the Contract Times (or Milestones) shall be based on written notice submitted by the party making the claim to the ENGINEER and the other party to the Contract in accordance with the provisions of paragraph 10.05.

B. Any adjustment of the Contract Times (or Milestones) covered by a Change Order or of any Claim for an adjustment in the Contract Times (or Milestones)

will be determined in accordance with the provisions of this Article 12.

12.03 *Delays Beyond CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of CONTRACTOR, the Contract Times (or Milestones) will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in paragraph 12.02.A. Delays beyond the control of CONTRACTOR shall include, but not be limited to, acts or neglect by OWNER, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.

12.04 *Delays Within CONTRACTOR's Control*

A. The Contract Times (or Milestones) will not be extended due to delays within the control of CONTRACTOR. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of CONTRACTOR.

12.05 *Delays Beyond OWNER's and CONTRACTOR's Control*

A. Where CONTRACTOR is prevented from completing any part of the Work within the Contract Times (or Milestones) due to delay beyond the control of both OWNER and CONTRACTOR, an extension of the Contract Times (or Milestones) in an amount equal to the time lost due to such delay shall be CONTRACTOR's sole and exclusive remedy for such delay.

12.06 *Delay Damages*

A. In no event shall OWNER or ENGINEER be liable to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization, or to any surety for or employee or agent of any of them, for damages arising out of or resulting from:

1. delays caused by or within the control of CONTRACTOR; or

2. delays beyond the control of both OWNER and CONTRACTOR including but not limited to fires, floods, epidemics, abnormal weather conditions, acts of God, or acts or neglect by utility

owners or other contractors performing other work as contemplated by Article 7.

B. Nothing in this paragraph 12.06 bars a change in Contract Price pursuant to this Article 12 to compensate CONTRACTOR due to delay, interference, or disruption directly attributable to actions or inactions of OWNER or anyone for whom OWNER is responsible.

ARTICLE 13 - TESTS AND INSPECTIONS;
CORRECTION, REMOVAL OR ACCEPTANCE OF
DEFECTIVE WORK

13.01 *Notice of Defects*

A. Prompt notice of all defective Work of which OWNER or ENGINEER has actual knowledge will be given to CONTRACTOR. All defective Work may be rejected, corrected, or accepted as provided in this Article 13.

13.02 *Access to Work*

A. OWNER, ENGINEER, ENGINEER's Consultants, other representatives and personnel of OWNER, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the Site and the Work at reasonable times for their observation, inspecting, and testing. CONTRACTOR shall provide them proper and safe conditions for such access and advise them of CONTRACTOR's Site safety procedures and programs so that they may comply therewith as applicable.

13.03 *Tests and Inspections*

A. CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

B. OWNER shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

1. for inspections, tests, or approvals covered by paragraphs 13.03.C and 13.03.D below;

2. that costs incurred in connection with tests or inspections conducted pursuant to paragraph 13.04.B shall be paid as provided in said paragraph 13.04.B; and

3. as otherwise specifically provided in the Contract Documents.

C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, CONTRACTOR shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish ENGINEER the required certificates of inspection or approval.

D. CONTRACTOR shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for OWNER's and ENGINEER's acceptance of materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to CONTRACTOR's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to OWNER and ENGINEER.

E. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by CONTRACTOR without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation.

F. Uncovering Work as provided in paragraph 13.03.E shall be at CONTRACTOR's expense unless CONTRACTOR has given ENGINEER timely notice of CONTRACTOR's intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

13.04 *Uncovering Work*

A. If any Work is covered contrary to the written request of ENGINEER, it must, if requested by ENGINEER, be uncovered for ENGINEER's observation and replaced at CONTRACTOR's expense.

B. If ENGINEER considers it necessary or advisable that covered Work be observed by ENGINEER or inspected or tested by others, CONTRACTOR, at ENGINEER's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as ENGINEER may require, that portion of the Work in

question, furnishing all necessary labor, material, and equipment. If it is found that such Work is defective, CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If, however, such Work is not found to be defective, CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Times (or Milestones), or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, CONTRACTOR may make a Claim therefor as provided in paragraph 10.05.

13.05 *OWNER May Stop the Work*

A. If the Work is defective, or CONTRACTOR fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give rise to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

13.06 *Correction or Removal of Defective Work*

A. CONTRACTOR shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by ENGINEER, remove it from the Project and replace it with Work that is not defective. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

13.07 *Correction Period*

A. If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by Laws or Regulations or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any Work is found to be defective, or if the repair of any damages to the land or areas made available for CONTRACTOR's use by OWNER or permitted by Laws and Regulations as contemplated in paragraph 6.11.A is found to be defective, CONTRACTOR shall promptly, without cost to OWNER and in accordance with OWNER's written instructions: (i) repair such defective land or areas, or (ii) correct such defective Work or, if the defective Work has been rejected by OWNER, remove it from the Project and replace it with Work that is not defective, and (iii) satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others or other land or areas resulting therefrom. If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, OWNER may have the defective Work corrected or repaired or may have the rejected Work removed and replaced, and all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by CONTRACTOR.

B. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications or by Written Amendment.

C. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph 13.07, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

D. CONTRACTOR's obligations under this paragraph 13.07 are in addition to any other obligation or warranty. The provisions of this paragraph 13.07 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

13.08 *Acceptance of Defective Work*

A. If, instead of requiring correction or removal and replacement of defective Work, OWNER (and, prior to ENGINEER's recommendation of final payment, ENGINEER) prefers to accept it, OWNER may do so. CONTRACTOR shall pay all Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to OWNER's evaluation of and determination to accept such defective Work (such costs to be approved by ENGINEER as to reasonableness) and the diminished value of the Work to the extent not otherwise paid by CONTRACTOR pursuant to this sentence. If any such acceptance occurs prior to ENGINEER's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and OWNER shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, OWNER may make a Claim therefor as provided in paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by CONTRACTOR to OWNER.

13.09 *OWNER May Correct Defective Work*

A. If CONTRACTOR fails within a reasonable time after written notice from ENGINEER to correct defective Work or to remove and replace rejected Work as required by ENGINEER in accordance with paragraph 13.06.A, or if CONTRACTOR fails to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days written notice

to CONTRACTOR, correct and remedy any such deficiency.

B. In exercising the rights and remedies under this paragraph, OWNER shall proceed expeditiously. In connection with such corrective and remedial action, OWNER may exclude CONTRACTOR from all or part of the Site, take possession of all or part of the Work and suspend CONTRACTOR's services related thereto, take possession of CONTRACTOR's tools, appliances, construction equipment and machinery at the Site, and incorporate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER's representatives, agents and employees, OWNER's other contractors, and ENGINEER and ENGINEER's Consultants access to the Site to enable OWNER to exercise the rights and remedies under this paragraph.

C. All Claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by OWNER in exercising the rights and remedies under this paragraph 13.09 will be charged against CONTRACTOR, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, OWNER may make a Claim therefor as provided in paragraph 10.05. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of CONTRACTOR's defective Work.

D. CONTRACTOR shall not be allowed an extension of the Contract Times (or Milestones) because of any delay in the performance of the Work attributable to the exercise by OWNER of OWNER's rights and remedies under this paragraph 13.09.

ARTICLE 14 - PAYMENTS TO CONTRACTOR AND COMPLETION

14.01 *Schedule of Values*

A. The schedule of values established as provided in paragraph 2.07.A will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.02 *Progress Payments*

A. *Applications for Payments*

1. At least 20 days before the date established for each progress payment (but not more often than once a month), CONTRACTOR shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that OWNER has received the materials and equipment free and clear of all Liens and evidence that the materials and equipment are covered by appropriate property insurance or other arrangements to protect OWNER's interest therein, all of which must be satisfactory to OWNER.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of CONTRACTOR stating that all previous progress payments received on account of the Work have been applied on account to discharge CONTRACTOR's legitimate obligations associated with prior Applications for Payment.

3. The amount of retainage with respect to pro-gress payments will be as stipulated in the Agreement.

B. *Review of Applications*

1. ENGINEER will, within 10 days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to OWNER or return the Application to CONTRACTOR indicating in writing ENGINEER's reasons for refusing to recommend payment. In the latter case, CONTRACTOR may make the necessary corrections and resubmit the Application.

2. ENGINEER's recommendation of any payment requested in an Application for Payment will constitute a representation by ENGINEER to OWNER, based on ENGINEER's observations on the Site of the executed Work as an experienced and qualified design professional and on ENGINEER's review of the Application for Payment and the accompanying data and schedules, that to the best of ENGINEER's knowledge, information and belief:

a. the Work has progressed to the point indicated;

b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under paragraph 9.08, and to any other qualifications stated in the recommendation); and

c. the conditions precedent to CONTRACTOR's being entitled to such payment appear to have been fulfilled in so far as it is ENGINEER's responsibility to observe the Work.

3. By recommending any such payment ENGINEER will not thereby be deemed to have represented that: (i) inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to ENGINEER in the Contract Documents; or (ii) that there may not be other matters or issues between the parties

that might entitle CONTRACTOR to be paid additionally by OWNER or entitle OWNER to withhold payment to CONTRACTOR.

4. Neither ENGINEER's review of CONTRACTOR's Work for the purposes of recommending payments nor ENGINEER's recommendation of any payment, including final payment, will impose responsibility on ENGINEER to supervise, direct, or control the Work or for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for CONTRACTOR's failure to comply with Laws and Regulations applicable to CONTRACTOR's performance of the Work. Additionally, said review or recommendation will not impose responsibility on ENGINEER to make any examination to ascertain how or for what purposes CONTRACTOR has used the moneys paid on account of the Contract Price, or to determine that title to any of the Work, materials, or equipment has passed to OWNER free and clear of any Liens.

5. ENGINEER may refuse to recommend the whole or any part of any payment if, in ENGINEER's opinion, it would be incorrect to make the representations to OWNER referred to in paragraph 14.02.B.2. ENGINEER may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in ENGINEER's opinion to protect OWNER from loss because:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Written Amendment or Change Orders;
- c. OWNER has been required to correct defective Work or complete Work in accordance with paragraph 13.09; or
- d. ENGINEER has actual knowledge of the occurrence of any of the events enumerated in paragraph 15.02.A.

C. *Payment Becomes Due*

1. Ten days after presentation of the Application for Payment to OWNER with ENGINEER's recommendation, the amount recommended will (subject to the provisions of paragraph 14.02.D) become due, and when due will be paid by OWNER to CONTRACTOR.

D. *Reduction in Payment*

1. OWNER may refuse to make payment of the full amount recommended by ENGINEER because:

a. claims have been made against OWNER on account of CONTRACTOR's performance or furnishing of the Work;

b. Liens have been filed in connection with the Work, except where CONTRACTOR has delivered a specific Bond satisfactory to OWNER to secure the satisfaction and discharge of such Liens;

c. there are other items entitling OWNER to a set-off against the amount recommended; or

d. OWNER has actual knowledge of the occurrence of any of the events enumerated in paragraphs 14.02.B.5.a through 14.02.B.5.c or paragraph 15.02.A.

2. If OWNER refuses to make payment of the full amount recommended by ENGINEER, OWNER must give CONTRACTOR immediate written notice (with a copy to ENGINEER) stating the reasons for such action and promptly pay CONTRACTOR any amount remaining after deduction of the amount so withheld. OWNER shall promptly pay CONTRACTOR the amount so withheld, or any adjustment thereto agreed to by OWNER and CONTRACTOR, when CONTRACTOR corrects to OWNER's satisfaction the reasons for such action.

3. If it is subsequently determined that OWNER's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by paragraph 14.02.C.1.

14.03 *CONTRACTOR's Warranty of Title*

A. CONTRACTOR warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than the time of payment free and clear of all Liens.

14.04 *Substantial Completion*

A. When CONTRACTOR considers the entire Work ready for its intended use CONTRACTOR shall notify OWNER and ENGINEER in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR as incomplete) and request that ENGINEER issue a certificate of Substantial Completion. Promptly thereafter, OWNER, CONTRACTOR, and ENGINEER shall make an inspection of the Work to determine the status of completion. If ENGINEER does not consider the Work substantially complete, ENGINEER will notify CONTRACTOR in writing giving the reasons therefor. If ENGINEER considers the Work substantially complete, ENGINEER will prepare and deliver to OWNER a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. OWNER shall have seven days after receipt of the tentative certificate during which to make written objection to ENGINEER as to any provisions of the certificate or attached list. If, after considering such objections, ENGINEER concludes that the Work is not substantially complete, ENGINEER will within 14 days after submission of the tentative certificate to OWNER notify CONTRACTOR in writing, stating the reasons therefor. If, after consideration of OWNER's objections, ENGINEER considers the Work substantially complete, ENGINEER will within said 14 days execute and deliver to OWNER and CONTRACTOR a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as ENGINEER believes justified after consideration of any objections from OWNER. At the time of delivery of the tentative certificate of Substantial Completion ENGINEER will deliver to OWNER and CONTRACTOR a written recommendation as to division of responsibilities pending final payment between OWNER and CONTRACTOR with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless OWNER and CONTRACTOR agree otherwise in writing and so inform ENGINEER in writing prior to ENGINEER's issuing the definitive certificate of Substantial Completion,

ENGINEER's aforesaid recommendation will be binding on OWNER and CONTRACTOR until final payment.

B. OWNER shall have the right to exclude CONTRACTOR from the Site after the date of Substantial Completion, but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

14.05 *Partial Utilization*

A. Use by OWNER at OWNER's option of any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which OWNER, ENGINEER, and CONTRACTOR agree constitutes a separately functioning and usable part of the Work that can be used by OWNER for its intended purpose without significant interference with CONTRACTOR's performance of the remainder of the Work, may be accomplished prior to Substantial Completion of all the Work subject to the following conditions.

1. OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees that such part of the Work is substantially complete, CONTRACTOR will certify to OWNER and ENGINEER that such part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. CONTRACTOR at any time may notify OWNER and ENGINEER in writing that CONTRACTOR considers any such part of the Work ready for its intended use and substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. Within a reasonable time after either such request, OWNER, CONTRACTOR, and ENGINEER shall make an inspection of that part of the Work to determine its status of completion. If ENGINEER does not consider that part of the Work to be substantially complete, ENGINEER will notify OWNER and CONTRACTOR in writing giving the reasons therefor. If ENGINEER considers that part of the Work to be substantially complete, the provisions of paragraph 14.04 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

2. No occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of paragraph 5.10 regarding property insurance.

14.06 *Final Inspection*

A. Upon written notice from CONTRACTOR that the entire Work or an agreed portion thereof is complete, ENGINEER will promptly make a final inspection with OWNER and CONTRACTOR and will notify CONTRACTOR in writing of all particulars in which this inspection reveals that the Work is incomplete or defective. CONTRACTOR shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

14.07 *Final Payment*

A. *Application for Payment*

1. After CONTRACTOR has, in the opinion of ENGINEER, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, Bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents (as provided in paragraph 6.12), and other documents, CONTRACTOR may make application for final payment following the procedure for progress payments.

2. The final Application for Payment shall be accompanied (except as previously delivered) by: (i) all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by subparagraph 5.04.B.7; (ii) consent of the surety, if any, to final payment; and (iii) complete and legally effective releases or waivers (satisfactory to OWNER) of all Lien rights arising out of or Liens filed in connection with the Work.

3. In lieu of the releases or waivers of Liens specified in paragraph 14.07.A.2 and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full and an affidavit of CONTRACTOR that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) all payrolls, material and equipment bills, and other

indebtedness connected with the Work for which OWNER or OWNER's property might in any way be responsible have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, CONTRACTOR may furnish a Bond or other collateral satisfactory to OWNER to indemnify OWNER against any Lien.

B. *Review of Application and Acceptance*

1. If, on the basis of ENGINEER's observation of the Work during construction and final inspection, and ENGINEER's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, ENGINEER is satisfied that the Work has been completed and CONTRACTOR's other obligations under the Contract Documents have been fulfilled, ENGINEER will, within ten days after receipt of the final Application for Payment, indicate in writing ENGINEER's recommendation of payment and present the Application for Payment to OWNER for payment. At the same time ENGINEER will also give written notice to OWNER and CONTRACTOR that the Work is acceptable subject to the provisions of paragraph 14.09. Otherwise, ENGINEER will return the Application for Payment to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment, in which case CONTRACTOR shall make the necessary corrections and resubmit the Application for Payment.

C. *Payment Becomes Due*

1. Thirty days after the presentation to OWNER of the Application for Payment and accompanying documentation, the amount recommended by ENGINEER will become due and, when due, will be paid by OWNER to CONTRACTOR.

14.08 *Final Completion Delayed*

A. If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed, and if ENGINEER so confirms, OWNER shall, upon receipt of CONTRACTOR's final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not

fully completed or corrected is less than the retainage stipulated in the Agreement, and if Bonds have been furnished as required in paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CONTRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

14.09 *Waiver of Claims*

A. The making and acceptance of final payment will constitute:

1. a waiver of all Claims by OWNER against CONTRACTOR, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from CONTRACTOR's continuing obligations under the Contract Documents; and

2. a waiver of all Claims by CONTRACTOR against OWNER other than those previously made in writing which are still unsettled.

ARTICLE 15 - SUSPENSION OF WORK AND TERMINATION

15.01 *OWNER May Suspend Work*

A. At any time and without cause, OWNER may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by notice in writing to CONTRACTOR and ENGINEER which will fix the date on which Work will be resumed. CONTRACTOR shall resume the Work on the date so fixed. CONTRACTOR shall be allowed an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if CONTRACTOR makes a Claim therefor as provided in paragraph 10.05.

15.02 *OWNER May Terminate for Cause*

A. The occurrence of any one or more of the following events will justify termination for cause:

1. CONTRACTOR's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.07 as adjusted from time to time pursuant to paragraph 6.04);

2. CONTRACTOR's disregard of Laws or Regulations of any public body having jurisdiction;

3. CONTRACTOR's disregard of the authority of ENGINEER; or

4. CONTRACTOR's violation in any substantial way of any provisions of the Contract Documents.

B. If one or more of the events identified in paragraph 15.02.A occur, OWNER may, after giving CONTRACTOR (and the surety, if any) seven days written notice, terminate the services of CONTRACTOR, exclude CONTRACTOR from the Site, and take possession of the Work and of all CONTRACTOR's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by CONTRACTOR (without liability to CONTRACTOR for trespass or conversion), incorporate in the Work all materials and equipment stored at the Site or for which OWNER has paid CONTRACTOR but which are stored elsewhere, and finish the Work as OWNER may deem expedient. In such case, CONTRACTOR shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by OWNER arising out of or relating to completing the Work, such excess will be paid to CONTRACTOR. If such claims, costs, losses, and damages exceed such unpaid balance, CONTRACTOR shall pay the difference to OWNER. Such claims, costs, losses, and damages incurred by OWNER will be reviewed by ENGINEER as to their reasonableness and, when so approved by ENGINEER, incorporated in a Change Order. When exercising any rights or remedies under this paragraph OWNER shall not be required to obtain the lowest price for the Work performed.

C. Where CONTRACTOR's services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due CONTRACTOR by OWNER will not release CONTRACTOR from liability.

15.03 *OWNER May Terminate For Convenience*

A. Upon seven days written notice to CONTRACTOR and ENGINEER, OWNER may, without cause and without prejudice to any other right or remedy of OWNER, elect to terminate the Contract. In such case, CONTRACTOR shall be paid (without duplication of any items):

1. for completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;

2. for expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses;

3. for all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and

4. for reasonable expenses directly attributable to termination.

B. CONTRACTOR shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

15.04 *CONTRACTOR May Stop Work or Terminate*

A. If, through no act or fault of CONTRACTOR, the Work is suspended for more than 90 consecutive days by OWNER or under an order of court or other public authority, or ENGINEER fails to act on any Application for Payment within 30 days after it is submitted, or OWNER fails for 30 days to pay CONTRACTOR any sum finally determined to be due, then CONTRACTOR may, upon

seven days written notice to OWNER and ENGINEER, and provided OWNER or ENGINEER do not remedy such suspension or failure within that time, terminate the Contract and recover from OWNER payment on the same terms as provided in paragraph 15.03. In lieu of terminating the Contract and without prejudice to any other right or remedy, if ENGINEER has failed to act on an Application for Payment within 30 days after it is submitted, or OWNER has failed for 30 days to pay CONTRACTOR any sum finally determined to be due, CONTRACTOR may, seven days after written notice to OWNER and ENGINEER, stop the Work until payment is made of all such amounts due CONTRACTOR, including interest thereon. The provisions of this paragraph 15.04 are not intended to preclude CONTRACTOR from making a Claim under paragraph 10.05 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to CONTRACTOR's stopping the Work as permitted by this paragraph.

ARTICLE 16 - DISPUTE RESOLUTION

16.01 *Methods and Procedures*

A. Dispute resolution methods and procedures, if any, shall be as set forth in the Supplementary Conditions. If no method and procedure has been set forth, and subject to the provisions of paragraphs 9.09 and 10.05, OWNER and CONTRACTOR may exercise such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any dispute.

ARTICLE 17 - MISCELLANEOUS

17.01 *Giving Notice*

A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.02 *Computation of Times*

A. When any period of time is referred to in the Contract Documents by days, it will be computed to

exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.03 *Cumulative Remedies*

A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract Documents, and the provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

17.04 *Survival of Obligations*

A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the Work or termination or completion of the Agreement.

17.05 *Controlling Law*

A. This Contract is to be governed by the law of the state in which the Project is located.

SUPPLEMENTAL GENERAL CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract (No. 1910-8, 1996 Edition) and other provisions of the Contract Documents as indicated below. All provisions, which are not so amended or supplemental, remain in full force and effect.

The terms used in these Supplementary Conditions will have the meanings indicated in the General Conditions. Additional terms used in these Supplementary Conditions have the meanings indicated below, which are applicable to both the singular and plural thereof.

SC-6.10 Delete paragraph 6.10 in its entirety and insert the following in its place:

The owner qualifies for the state and local tax exemption in the purchase of certain materials and equipment. Other exemptions as per 34 TAC §3.287 and related law may apply.

SC-11.01 Delete paragraph 11.01 in its entirety.

SC-11.02 Delete paragraph 11.02 in its entirety.

SC-12.01B.2 & B.3. Delete paragraph 12.01B.2 & B.3 in its entirety.

SC-12.01.C.2 Delete paragraph 12.01.C.2 in its entirety.

SC Article 14.02 C.1 Replace “**Ten days**” with “**Thirty days**” to read as follows: Thirty days after presentation of the Application for Payment to OWNER with ENGINEER’S recommendation, the amount recommended will (subject to the provisions of paragraph 14.02.D) become due, and when due will be paid by OWNER TO CONTRACTOR.

SC Article 16 Add the following language at the end of the paragraph of Article 16:

There are no dispute resolution methods and procedures set forth in the Supplemental Conditions:

THIS PAGE LEFT INTENTIONALLY BLANK

EXHIBIT "C"

Insurance Requirements

Applicable to the Acquisition of Goods and/or Services (Other than Professional Services)

The Bidder awarded the contract shall furnish proof of insurance, which will also include any subcontractor that is subcontracted by the bidder in at least the following limits, to be in place prior to providing any services under this Contract and to continue at all times in force in effect during the term of this Contract and any extension hereof:

1. **Comprehensive General Liability insurance** policy with limits of not less than Five Hundred Thousand Dollar (\$500,000.00) providing additional coverage to all underlying liabilities of County. Policy shall cover, but not be limited to, Bidder's activities in providing the Services for County; all persons, vehicles, equipment connected with providing Services; and theft or loss of Bidder's property.
 2. **Automobile liability insurance** policy, covering all owned, non-owned or hired/leased automobiles, with limits of at least Three Hundred Thousand Dollars (\$300,000.00) per person and Five Hundred Thousand Dollars (\$500,000.00) per occurrence. Coverage should include injury to or death of persons and property damage claims with limits up to five Hundred Thousand (\$500,000.00) arising out of the services provided to County hereunder.
 3. **Uninsured/Underinsured motorist coverage** in an amount equal to the auto liability limits set forth immediately above;
 4. **Workers Compensation Insurance:** Workers Compensation insurance in amounts established by Texas law, unless the Bidder is specifically exempted from the Texas Workers Compensation Act, Texas Labor Code Chapter 401, et. seq. Workers Compensation policies must include other States Endorsement to include TEXAS if the business is domiciled outside the State of Texas.
- *Bidder shall obtain and maintain any and all other insurances which may be necessary in providing the good/service applicable to this procurement or are otherwise required by law.*
 - *Any and all insurance policies shall be in amounts prescribed by law or otherwise specified by the County, but in no event less than the minimum amounts prescribed by law.*

Additional Insurance Requirements:

- a. Bidder shall furnish to County certificate(s) of insurance, and all renewals throughout the duration of the Project, issued by the insurer that such insurance is in full force and effect.
- b. Certificates of insurance shall be submitted to County for approval prior to any services being performed by Bidder.
- c. **Hidalgo County will only accept certificates of insurance on an Acord form (as attached hereto).**

Page 2 of 2: Continuation of Exhibit “C”: Insurance Requirements Applicable to the Acquisition of Goods and/or Services (Other than Professional Services)

- d. For each policy, except Workers’ Compensation, Bidder shall name the County as an additional insured.
- e. Each policy of insurance required hereunder shall extend for a period equivalent to, or longer than the term of the Contract, and any insurer hereunder shall be required to give at least thirty (30) days written notice to the County prior to the cancellation of any such coverage on the termination date, or otherwise.
- f. This Contract shall be automatically suspended upon the cancellation, or other termination, of any required policy of insurance hereunder, and such suspension shall continue until evidence of adequate replacement coverage is provided to County. If replacement coverage is not provided within thirty (30) days following suspension of the Contract, this Contract shall automatically terminate.
- g. All insurance policies will be endorsed to provide a waiver of subrogation in favor of the County.
- h. County reserves the right to review the insurance requirements of this section during the effective period of the contract and to require adjustment of insurance coverage and their limits when deemed necessary and prudent by County based upon changes in statutory law, court decisions, or the claims history of the industry as well as the Bidder.
- i. Insurance policies shall be obtained at Bidder’s sole expense. County does not maintain and will not obtain insurance of any type to protect Bidder against loss, damage or injury that may in any way result from Bidders performance of the services.
- j. In no event shall the County be liable for any loss, damage to or destruction of any property belonging to the Bidder.
- k. Bidder is responsible for ensuring all required insurance policies are valid for the duration of the contract.
- l. All insurance policies are to be issued by an insurance company authorized to do business in the State of Texas and acceptable to County.
- m. Bidder shall make any other insurance documentation available to County upon request.

ACORD **CERTIFICATE OF INSURANCE** DATE (MM/DD/YY)

PRODUCER	<p>THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.</p>
INSURED	INSURERS AFFORDING COVERAGE
	INSURER A:
	INSURER B:
	INSURER C:
	INSURER D:
	INSURER E:

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THEIR TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY				EACH OCCURRENCE \$
	<input type="checkbox"/> COMMERCIAL GENERAL LIABILITY				FIRE DAMAGE (Any one fire) \$
	<input type="checkbox"/> CLAIMS MADE OCCUR				MEDICAL (Any one person) \$
	<input type="checkbox"/> OWNER'S & CONT. PROT				PERSONAL & ADV INJURY \$
	<input type="checkbox"/> OWNER'S PROTECTIVE LIABILITY				GENERAL AGGREGATE \$
	<input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC				PRODUCTS - COMP/OP AGG \$
B	AUTOMOBILE LIABILITY				COMBINED SINGLE LIMIT (Ea accident) \$
	<input type="checkbox"/> ANY AUTO				BODILY INJURY (Per person) \$
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident) \$
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident) \$
	<input type="checkbox"/> HIRED AUTOS				
<input type="checkbox"/> NON-OWNED AUTOS					
C	GARAGE LIABILITY				AUTO ONLY-EA ACCIDENT \$
	<input type="checkbox"/> ANY AUTO				OTHER THAN AUTO ONLY EA ACC AGG \$
					\$
D	EXCESS LIABILITY				EACH OCCURRENCE \$
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE \$
	<input type="checkbox"/> DEDUCTIBLE				\$
	<input type="checkbox"/> RETENTION \$				\$
					\$
E	WORKERS COMPENSATION AND EMPLOYER'S LIABILITY				WC STATUTORY LIMITS <input type="checkbox"/> OTHER \$
					E.L. EACH ACCIDENT \$
					E.L. DISEASE-EA EMPLOYEE \$
					E.L. DISEASE-POLICY LIMIT \$
	OTHER				

DESCRIPTION OF OPERATIONS / LOCATION / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS
County of Hidalgo shall be named as additional insured on all Commercial General Liability policies.

CERTIFICATE HOLDER	ADDITIONAL INSURED; INSURER LETTER: _____	CANCELLATION
Hidalgo County Attn: Purchasing Department 2812 S Highway Bus. 281 Edinburg, Texas 78539		SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BY CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES. AUTHORIZED REPRESENTATIVE

Insurance Requirements Acknowledgment

I, _____, authorized representative for _____,
Company/Vendor

hereby acknowledge receipt of the County's required insurance limits. Said requirements:

- will be acquired within 10 working days after notification from Purchasing Department of bid awarded by the Hidalgo County Commissioners' Court;
- will acquire additional amounts required to meet the County's requirements within 10 working days after notification from Purchasing Department of bid award by the Hidalgo County Commissioners' Court; currently carry the following:

Automobile Liability: \$_____ General Liability: \$_____
- have already been met, see attached copy of insurance certificate.

Authorized Representative

Date

NOTICE TO BIDDER:

A certificate of insurance for the required insurance limits shall be provided to the Purchasing Department's Contract Managers in order to qualify for award of bid and to execute a contract between your Company and the County.

Failure to provide Certificates of Insurance to the Purchasing Department's Contract Managers will cause the bid award to be rescinded and re-awarded to next lowest bidder. Certificates of Insurance will be monitored and verified on a **quarterly basis** to ensure coverage policy is in place. It is the Company's obligation to maintain the appropriate insurance coverage throughout the term of the contract.

THIS FORM MUST ACCOMPANY BID PACKET

**PROJECT REQUIREMENTS
ACKNOWLEDGMENT**

This is to certify that I, _____, possess all of the APPLICABLE:

1. Licenses: _____.

2. Bond (if applicable) _____

3. Certificates: _____.

4. Permits: _____.

5. Other: _____.

necessary to carry out the required project. Furthermore, I am providing copies of the required documentation so that, if my company is awarded this bid, I may be eligible to enter into a contract with Hidalgo County and proceed to complete the project in a timely manner.

* Any licenses, bonds (if applicable), certificates, permits, etc. which are required must be presented as part of the bid packet in order to expedite the bid evaluation process.

Authorized Signature

Date

Company

Address

City, State, Zip

THIS FORM MUST ACCOMPANY BID PACKET

EXHIBIT “D”

CIQ

Conflict of Interest
Questionnaire

CONFLICT OF INTEREST QUESTIONNAIRE

FORM CIQ

For vendor doing business with local governmental entity

This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

OFFICE USE ONLY

Date Received

1 Name of vendor who has a business relationship with local governmental entity.

2 Check this box if you are filing an update to a previously filed questionnaire. (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

3 Name of local government officer about whom the information is being disclosed.

Name of Officer

4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

Yes No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

Yes No

5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.

6 Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

7 _____
Signature of vendor doing business with the governmental entity

Date

CONFLICT OF INTEREST QUESTIONNAIRE
For vendor doing business with local governmental entity

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

Local Government Code § 176.001(1-a): "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

Local Government Code § 176.003(a)(2)(A) and (B):

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

- (i) a contract between the local governmental entity and vendor has been executed; or
- (ii) the local governmental entity is considering entering into a contract with the vendor.

Local Government Code § 176.006(a) and (a-1)

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.

Exhibit "E"

Vendor/Bidder Application W9 HUB/DBE

HISTORICALLY UNDERUTILIZED BUSINESS (HUB) DECLARATION

The primary objective of the Hidalgo County HUB Program is to ensure Historically Underutilized Businesses receive a fair and equal opportunity for participation in the County's procurement process. This fact holds true for Services (Professional & Non-Professional), Commodities, and Construction contracts and any subcontracts thereto. The program strongly encourages Prime Contractors to provide subcontracting opportunities to Certified Hub Contractors/Vendors. Our goal for HUB contractor/vendor participation, as well as HUB subcontractor participation is 30%. To be considered as a "Certified HUB Contractor/Vendor" the contractor/vendor must have been certified by, and hold a current and valid certification with any of the three agencies listed below.

Have you been Certified as a HUB or an MBE/WBE source?: Yes No

If yes, by whom?: Texas Building & Procurement Commission Other _____

Indicate Certification No(s): _____ or Are Certificate(s) Attached?: Yes No

LIST OF CERTIFIED HUB SUBCONTRACTORS

(Attach additional pages if necessary)

What percentage of the Bid, RFP, or RFQ is to be subcontracted with Certified HUB sources?: _____%
(List HUB Subcontractor information below).

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ()
Subcontract Amount: \$ _____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ()
Subcontract Amount: \$ _____ Description of Work to be Performed:

HUB Subcontractor Name: _____ HUB Status:
Certifying Agency (Check all applicable): Texas Building & Procurement Commission Other
Address: _____ City: _____ State: _____ Zip:
Contact Person: _____ Title: _____ Phone No.: ()
Subcontract Amount: \$ _____ Description of Work to be Performed:

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
2. Certify that you are not subject to backup withholding, or
3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and
4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting*, later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, *Withholding of Tax on Nonresident Aliens and Foreign Entities*).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.
2. The treaty article addressing the income.
3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.
4. The type and amount of income that qualifies for the exemption from tax.
5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,
2. You do not certify your TIN when required (see the instructions for Part II for details),
3. The IRS tells the requester that you furnished an incorrect TIN,
4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or
5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code*, later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships*, earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code*, later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of \$50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a \$500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

- 1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)
- 2—The United States or any of its agencies or instrumentalities
- 3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities
- 4—A foreign government or any of its political subdivisions, agencies, or instrumentalities
- 5—A corporation
- 6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession
- 7—A futures commission merchant registered with the Commodity Futures Trading Commission
- 8—A real estate investment trust
- 9—An entity registered at all times during the tax year under the Investment Company Act of 1940
- 10—A common trust fund operated by a bank under section 584(a)
- 11—A financial institution
- 12—A middleman known in the investment community as a nominee or custodian
- 13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over \$600 required to be reported and direct sales over \$5,000 ¹	Generally, exempt payees 1 through 5 ²
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

¹ See Form 1099-MISC, Miscellaneous Income, and its instructions.

² However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester*, later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at www.SSA.gov. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at www.irs.gov/Businesses and clicking on Employer Identification Number (EIN) under Starting a Business. Go to www.irs.gov/Forms to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to www.irs.gov/OrderForms to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code*, earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983.

You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983.

You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account ¹
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor ²
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee ¹
b. So-called trust account that is not a legal or valid trust under state law	The actual owner ¹
6. Sole proprietorship or disregarded entity owned by an individual	The owner ³
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	Give name and EIN of:
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity ⁴
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee

For this type of account:	Give name and EIN of:
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

¹ List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

² Circle the minor's name and furnish the minor's SSN.

³ You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

⁴ List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships*, earlier.

*Note: The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes.

Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to phishing@irs.gov. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at spam@uce.gov or report them at www.ftc.gov/complaint. You can contact the FTC at www.ftc.gov/idtheft or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see www.IdentityTheft.gov and Pub. 5027.

Visit www.irs.gov/IdentityTheft to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

Exhibit “F”

Certification Regarding

Debarment

**Certification
Regarding Debarment, Suspension Ineligibility**

As is required by the Federal Regulations Implementing Executive Order 12549, Debarment and Suspension, 45 CFR Part 76, Government-wide Debarment and Suspension, in the applicant certifies, to the best of his or her knowledge and belief, that both it and its principals:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency;
- b. Have not within a three-year period preceding this bid/proposal and/or application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under a public transaction, violation of federal or state antitrust statutes or commission of embezzlement, theft, theory, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- c. Are not presently indicted for or otherwise criminally or civilly charged by a government entity with commission of any of the offenses enumerated herein; and
- d. Have not within a three-year period preceding this bid/proposal and/or application had one or more public transactions terminated of cause or default.

Signature: _____

Print Name: _____

Title: _____

Telephone Number: _____

Date: _____

If the proposer is unable to certify to all of the statements in this Certification, such proposer should attach an explanation to this proposal.

Exhibit “G”

Title VI Appendices

“A” thru “E”

APPENDIX A

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, the Federal Highway Administration, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Nondiscrimination on the grounds of race, color, or national origin.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the Federal Highway Administration to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the Federal Highway Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the Federal Highway Administration may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX B

CLAUSES FOR DEEDS TRANSFERRING UNITED STATES PROPERTY

The following clauses will be included in deeds effecting or recording the transfer of real property, structures, or improvements thereon, or granting interest therein from the United States pursuant to the provisions of Assurance 4:

NOW, THEREFORE, the U.S. Department of Transportation as authorized by law and upon the condition that the **COUNTY OF HIDALGO** will accept title to the lands and maintain the project constructed thereon in accordance with all applicable federal statutes, the Regulations for the Administration of all Department of Transportation programs, and the policies and procedures prescribed by the Federal Highway Administration of the U.S. Department of Transportation in accordance and in compliance with all requirements imposed by Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation pertaining to and effectuating the provisions of Title VI of the Civil Rights Act of 1964 (78 Stat. 252; 42 U.S.C. § 2000d to 2000d-4), does hereby remise, release, quitclaim and convey unto the **COUNTY OF HIDALGO** all the right, title and interest of the U.S. Department of Transportation in and to said lands described in Exhibit 1 attached hereto and made a part hereof.

(HABENDUM CLAUSE)

TO HAVE AND TO HOLD said lands and interests therein unto **COUNTY OF HIDALGO** and its successors forever, subject, however, to the covenants, conditions, restrictions and reservations herein contained as follows, which will remain in effect for the period during which the real property or structures are used for a purpose for which Federal financial assistance is extended or for another purpose involving the provision of similar services or benefits and will be binding on the **COUNTY OF HIDALGO**, its successors and assigns.

The **COUNTY OF HIDALGO**, in consideration of the conveyance of said lands and interests in lands, does hereby covenant and agree as a covenant running with the land for itself, its successors and assigns, that (1) no person will on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination with regard to any facility located wholly or in part on, over ,or under such lands hereby conveyed [,] [and]* (2) that the **COUNTY OF HIDALGO** will use the lands and interests in lands and interests in lands so conveyed, in compliance with all requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. Department of Transportation, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations and Acts may be amended[, and(3) that in the event of breach of any of the above-mentioned nondiscrimination conditions, the Department will have a right to enter or re-enter said lands and facilities on said land ,and that above described land and facilities will thereon revert to and vest in and become the absolute property of the U.S. Department of Transportation and its assigns as such interest existed prior to this instruction].*

(*Reverted clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)

APPENDIX C

CLAUSES FOR TRANSFER OF REAL PROPERTY ACQUIRED OR IMPROVED UNDER THE ACTIVITY, FACILITY, OR PROGRAM

The following clauses will be included in deeds, licenses, leases, permits, or similar instruments entered into by the **COUNTY OF HIDALGO** pursuant to the provisions of Assurance 7(a):

- A. The (grantee, lessee, permittee, etc. as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree [in the case of deeds and leases add "as a covenant running with the land"] that:
 - 1. In the event facilities are constructed, maintained, or otherwise operated on the property described in this (deed, license, lease, permit, etc.) for a purpose for which a U.S. Department of Transportation activity, facility, or program is extended or for another purpose involving the provision of similar services or benefits, the (grantee, licensee, lessee, permitted, etc.) will maintain and operate such facilities and services in compliance with all requirements imposed by the Acts and Regulations (as may be amended) such that no person on the grounds of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities.
- B. With respect to licenses, leases, permits, etc., in the event of breach of any of the above Nondiscrimination covenants, **COUNTY OF HIDALGO** will have the right to terminate the (lease, license, permit, etc.) and to enter, re-enter, and repossess said lands and facilities thereon, and hold the same as if the (lease, license, permit, etc.) had never been made or issued.*
- C. With respect to a deed, in the event of breach of any of the above Nondiscrimination covenants, the **COUNTY OF HIDALGO** will have the right to enter or re-enter the lands and facilities thereon, and the above described lands and facilities will there upon revert to and vest in and become the absolute property of the **COUNTY OF HIDALGO** and its assigns.*

(*Reverted clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)

APPENDIX D

CLAUSES FOR CONSTRUCTION/USE/ACCESS TO REAL PROPERTY ACQUIRED UNDER THE ACTIVITY, FACILITY OR PROGRAM

The following clauses will be included in deeds, licenses, permits, or similar instruments/agreements entered into by **COUNTY OF HIDALGO** pursuant to the provisions of Assurance 7(b):

- A. The (grantee, licensee, permittee, etc., as appropriate) for himself/herself, his/her heirs, personal representatives, successors in interest, and assigns, as a part of the consideration hereof, does hereby covenant and agree (in the case of deeds and leases add, "as a covenant running with the land") that (1) no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (2) that in the construction of any improvements on, over, or under such land, and the furnishing of services thereon, no person on the ground of race, color, or national origin, will be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (3) that the (grantee, licensee, lessee, permittee, etc.) will use the premises in compliance with all other requirements imposed by or pursuant to the Acts and Regulations, as amended, set forth in this Assurance.
- B. With respect to (licenses, leases, permits, etc.), in the event of breach of any of the above Nondiscrimination covenants, **COUNTY OF HIDALGO** will have the right to terminate the (license, permit, etc., as appropriate) and to enter or re-enter and repossess said land and the facilities thereon, and hold the same as if said (license, permit, etc., as appropriate) had never been made or issued.*
- C. With respect to deeds, in the event of breach of any of the above Nondiscrimination covenants, **COUNTY OF HIDALGO** will there upon revert to and vest in and become the absolute property of **COUNTY OF HIDALGO** and its assigns.*

(*Reverted clause and related language to be used only when it is determined that such a clause is necessary in order to make clear the purpose of Title VI.)

APPENDIX E

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following nondiscrimination statutes and authorities; including but not limited to:

Pertinent Nondiscrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49CFR Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23U.S.C. § 324et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49CFRPart 27;
- The Age Discrimination Act of 1975, as amended,(42U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49U.S.C. § 4 71, Section 4 7123),as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987,(PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131-12189)as implemented by Department of Transportation regulations at 49C.F.R. parts 37 and 38;
- The Federal Aviation Administration's Nondiscrimination statute (49U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U .S.C. 1681 et seq).

EXHIBIT “H”

(IF APPLICABLE)

**2 C.F.R. § 200.326 & 2 C.F.R. Part 200, Appendix II,
Required Contract Clauses for Non-Federal Entity
Contracts Under Federal Awards**

&

**Required Contract Clauses for Non-Federal Entity
Contracts Under Federal Awards with the Federal
Emergency Management Agency (FEMA)**

2 C.F.R. § 200.326 & 2 C.F.R. Part 200, Appendix II, Required Contract Clauses for Non-Federal Entity Contracts Under Federal Awards

The United States Office of Management and Budget (OMB) issued in 2 C.F.R. 200: *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* (Uniform Guidance). Subpart D: Post Federal Award Requirements: 2 CFR §§200.317-200.326 of the Uniform Guidance contain provisions applicable to procurements made with federal grant funding.

As a non-Federal entity, the County of Hidalgo's ("County") contracts must contain the applicable contract clauses described in Appendix II to the Uniform Guidance (Contract Provisions for non-Federal Entity Contracts Under Federal Awards), which are set forth below. 2 C.F.R. §200.326. If applicable, the following clauses shall supersede any existing, similar clauses stated within the bid document, contract, and/or Terms and Conditions. *The term "Contractor" used herein refers to the proposer, bidder or other entity/individual responding to the applicable procurement packet.*

If applicable, the regulations in 2 CFR, Part 200 and Appendix II to the Uniform Guidance, as it may be amended from time to time, and the contract clauses below, are incorporated by reference as part of this procurement packet and any resulting agreement.

To procure goods and services using funds under a federal grant or contract, specific federal laws, regulations, and requirements may apply in addition to those under state law. The following provisions are required and apply when federal funds are expended by the County of Hidalgo for any contract resulting from this procurement process.

1. **Remedies.**

- a. **Applicability.** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** Contracts for more than the simplified acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate. See 2 C.F.R. Part 200, Appendix II, ¶ A.
- c. **Statement.** Pursuant to Federal Rule (A) above, when federal funds are expended by the County, the County reserves all rights and privileges under the applicable laws and regulations with respect to this procurement in the event of breach of contract by either party. Contractor shall comply with all applicable Federal, State of Texas, and local laws, rules, and regulations and shall obtain all applicable licenses and permits for the conduct of its business and the performance of the services, and any provision of equipment and material ("Applicable Law"). All transactions related to any of the Contract Documents shall be governed by the laws of the State of Texas, and trial of any action brought in connection with the bid or the Contract Documents shall be held exclusively in a state court in the County of Hidalgo, Texas.

2. **Termination for Cause and Convenience.**

- a. **Applicability.** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** All contracts in excess of \$10,000 shall address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement as follows. **See 2 C.F.R. Part 200, Appendix II, ¶ B.**
- c. **Statement. Termination.** County may terminate this Agreement for any reason upon ten (10) days written notice to the other party. County may terminate this Agreement immediately upon written notice if Contractor breaches this Agreement. In the event of any termination, Contractor shall promptly deliver to the County any and all Work Materials prepared for the County prior to the effective date of such termination, all of which shall become County's sole property. After receipt of the Work Materials, County will pay Contractor for the services which the County determines were satisfactorily performed as of the effective date of the termination.

Excuses for Non-Performance. Either party shall be absolved from its obligations under this contract when and to the extent that performance is delayed or prevented (and in the County of Hidalgo's case when and to the extent that its need for the articles, materials or work to be supplied hereunder is reduced or eliminated) by reason of acts of God, fire explosion, war riots, strikes, labor disputes, or governmental laws, orders or regulations.

Default. If Contractor or Subcontractor shall breach any provision hereof or shall become insolvent, enter voluntary or involuntary bankruptcy or receivership proceedings or make an assignment to the benefit of creditors, County of Hidalgo shall have the right (without limiting any other rights or remedies which it may have hereunder or by operation of law) to terminate this contract by written notice to Contractor whereupon County shall be relieved of all further obligation hereunder except the obligation to pay the reasonable value of Contractor's prior performance (at not exceeding the contract rate), and Contractor shall be liable to County for all costs incurred by County in completing or procuring the completion of performance in excess of the contract price herein specified. The County's right to require strict performance of any obligation hereunder shall not be affected by any previous waiver, forbearance of course of dealing. Time is of the essence thereof.

3. **Equal Employment Opportunity.**

- a. **Applicability:** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** Except as otherwise provided under 41 C.F.R. Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 C.F.R. § 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. § 60- 1.4(b), in accordance with Executive Order 11246, *Equal Employment Opportunity* (30 Fed. Reg. 12319, 12935, 3 C.F.R. Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, *Amending Executive Order 11246 Relating to Equal Employment Opportunity*, and implementing regulations at 41 C.F.R. Part 60 (Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor). **See 2 C.F.R. Part 200, Appendix II, ¶ C.**

c. Key Definitions:

- (1) *Federally Assisted Construction Contract.* The regulation at 41 C.F.R. § 60-1.3 defines a “federally assisted construction contract” as any agreement or modification thereof between any applicant and a person for construction work which is paid for in whole or in part with funds obtained from the Government or borrowed on the credit of the Government pursuant to any Federal program involving a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, or any application or modification thereof approved by the Government for a grant, contract, loan, insurance, or guarantee under which the applicant itself participates in the construction work.
- (2) *Construction Work.* The regulation at 41 C.F.R. § 60-1.3 defines “construction work” as the construction, rehabilitation, alteration, conversion, extension, demolition or repair of buildings, highways, or other changes or improvements to real property, including facilities providing utility services. The term also includes the supervision, inspection, and other onsite functions incidental to the actual construction

- d. Statement: Contractor will comply with the Nondiscrimination Civil Rights Act of 1964, as amended and all Federal regulations relative to nondiscrimination in Federally assisted programs. The regulation at 41 C.F.R. Part 60-1.4(b) requires the insertion of the following contract clause:

“During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the

administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, That in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the contractor may request the United States to enter into such litigation to protect the interests of the United States.”

4. **Davis Bacon Act and Copeland Anti-Kickback Act.**

- a. Applicability of Davis-Bacon Act. The Davis-Bacon Act only applies to the emergency Management Preparedness Grant Program, Homeland Security Grant Program, Nonprofit Security Grant Program, Tribal Homeland Security Grant Program, Port Security Grant Program, and Transit Security Grant Program. **It does not apply to other Federal grant and cooperative agreement programs, including the Public Assistance Program.**
- b. Standard. All prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. §§ 3141-3144 and 3146-3148) as supplemented by Department of Labor regulations at 29 C.F.R. Part 5 (Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction)). See 2 C.F.R. Part 200, Appendix II, ¶ D.

In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week.

The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding City.

In contracts subject to the Davis-Bacon Act, the contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. § 3145), as supplemented by

Department of Labor regulations at 29 C.F.R. Part 3 (Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States). The Copeland Anti-Kickback Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to FEMA or applicable Federal entity.

- c. **Statement.** The regulation at 29 C.F.R. § 5.5(a) does provide the required contract clause that applies to compliance with both the Davis-Bacon and Copeland Acts. However, as discussed in the previous subsection, the Davis-Bacon Act does not apply to Public Assistance recipients and subrecipients. In situations where the Davis-Bacon Act does not apply, neither does the Copeland “Anti-Kickback Act.” However, for purposes of grant programs where both clauses do apply, FEMA or applicable Federal entity requires the following contract clause:

“Compliance with the Copeland “Anti-Kickback” Act.

(1) *Contractor.* The contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.

(2) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as Federal requirements may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

(3) *Breach.* A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a contractor and subcontractor as provided in 29 C.F.R. § 5.12.”

5. **Contract Work Hours and Safety Standards Act.**

- a. **Applicability:** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** Where applicable (see 40 U.S.C. § 3701), all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations at 29 C.F.R. Part 5. See 2 C.F.R. Part 200, Appendix II, ¶ E.

Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week.

The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of

supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

The regulation at 29 C.F.R. § 5.5(b) provides the required contract clause concerning compliance with the Contract Work Hours and Safety Standards Act:

c. Statement.

“Compliance with the Contract Work Hours and Safety Standards Act.

(1) *Overtime requirements.* No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) *Violation; liability for unpaid wages; liquidated damages.* In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.

(3) *Withholding for unpaid wages and liquidated damages.* The County of Hidalgo shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.

(4) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.”

6. Rights to Inventions Made Under a Contract or Agreement.

- a. Applicability: Stafford Act Disaster Grants. This requirement **does not apply to the Public Assistance,** Hazard Mitigation Grant Program, Fire Management Assistance Grant Program, Crisis Counseling Assistance and Training Grant Program, Disaster Case Management Grant

Program, and Federal Assistance to Individuals and Households – Other Needs Assistance Grant Program, as FEMA or Federal awards under these programs do not meet the definition of “funding agreement.”

- b. Standard. If the FEMA or Federal award meets the definition of “funding agreement” under 37 C.F.R. § 401.2(a) and the non-Federal entity wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the non-Federal entity must comply with the requirements of 37 C.F.R. Part 401 (Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements), and any implementing regulations issued by FEMA or applicable awarding agency. See 2 C.F.R. Part 200, Appendix II, ¶ F.
- c. Key Definition: The regulation at 37 C.F.R. § 401.2(a) currently defines “funding agreement” as any contract, grant, or cooperative agreement entered into between any Federal agency, other than the Tennessee Valley Authority, and any contractor for the performance of experimental, developmental, or research work funded in whole or in part by the Federal government. This term also includes any assignment, substitution of parties, or subcontract of any type entered into for the performance of experimental, developmental, or research work under a funding agreement as defined in the first sentence of this paragraph.

7. **Clean Air Act and the Federal Water Pollution Control Act.**

- a. Applicability and Standard: Contracts of amounts in excess of \$150,000 must contain a provision that requires the contractor to agree to comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42 U.S.C. §§ 7401-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. §§ 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency. See 2 C.F.R. Part 200, Appendix II, ¶ G.
- b. Statement: Included in contracts as provided in section “7a” above.
 - (1) The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. and the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
 - (2) The contractor agrees to report each violation to the Federal awarding agency (e.g. Federal Emergency Management Agency-FEMA) and the Regional Office of the Environmental Protection Agency. Contractor understands and agrees that each violation reported to the County of Hidalgo will, in turn, be reported as required to assure notification to the Federal awarding agency and the appropriate Environmental Protection Agency Regional Office.
 - (3) The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by the applicable Federal awarding agency (e.g. FEMA).

8. **Debarment and Suspension.**

- a. Applicability: This requirement applies to all Federal grant and cooperative agreement programs.

- b. Standard. Non-Federal entities and contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, *Debarment and Suspension* (1986) and Executive Order 12689, *Debarment and Suspension* (1989) at 2 C.F.R. Part 180 and the Department of Homeland Security’s regulations at 2 C.F.R. Part 3000 (Nonprocurement Debarment and Suspension).

These regulations restrict awards, subawards, and contracts with certain parties that are debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities. See 2 C.F.R. Part 200, Appendix II, ¶ H; and Chapter IV, ¶ 6.d and Appendix C, ¶ 2. A contract award must not be made to parties listed in the SAM Exclusions. SAM Exclusions is the list maintained by the General Services Administration that contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549. SAM exclusions can be accessed at www.sam.gov. See 2 C.F.R. § 180.530; Chapter IV, ¶ 6.d and Appendix C, ¶ 2.

In general, an “excluded” party cannot receive a Federal grant award or a contract within the meaning of a “covered transaction,” to include subawards and subcontracts. This includes parties that receive Federal funding indirectly, such as contractors to recipients and subrecipients. The key to the exclusion is whether there is a “covered transaction,” which is any nonprocurement transaction (unless excepted) at either a “primary” or “secondary” tier. Although “covered transactions” do not include contracts awarded by the Federal Government for purposes of the nonprocurement common rule and DHS’s implementing regulations, it does include some contracts awarded by recipients and subrecipient.

Specifically, a covered transaction includes the following contracts for goods or services:

- (1) The contract is awarded by a recipient or subrecipient in the amount of at least \$25,000.
- (2) The contract requires the approval of FEMA or applicable Federal entity, regardless of amount.
- (3) The contract is for Federally-required audit services.
- (4) A subcontract is also a covered transaction if it is awarded by the contractor of a recipient or subrecipient and requires either the approval of FEMA or applicable Federal entity or is in excess of \$25,000.

- c. Statement. The following provides a debarment and suspension clause. It incorporates a method of verifying that contractors are not excluded or disqualified:

For maximum protection, provide a print or electronic document for every prime and subcontractor, from www.sam.gov in order to ensure that they are not debarred, suspended, or otherwise excluded from or ineligible for participation in Federal assistance programs and activities.

This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such the contractor is required to verify that none of the contractor, its principals (defined at 2 C.F.R. § 180.995), or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

This certification is a material representation of fact relied upon by (insert name of subrecipient). If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to (name of state agency serving as recipient and name of subrecipient), the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.”

9. **Byrd Anti-Lobbying Amendment.**

- a. **Applicability:** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** Contractors that apply or bid for an award of \$100,000 or more must file the required certification. See 2 C.F.R. Part 200, Appendix II, ¶ I; 44 C.F.R. Part 18; Chapter IV, 6.c; Appendix C, ¶ 4. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any City, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. § 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. See Chapter IV, ¶ 6.c and Appendix C, ¶ 4.
- c. **Statement.** The following statement in bold provides a Byrd Anti-Lobbying contract clause:

(IF APPLICABLE, PLEASE FILL IN BLANKS AND SIGN)

“Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352 (as amended)

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient.”

APPENDIX A, 44 C.F.R. PART 18 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned Contractor, _____
certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date"

10. **Procurement of Recovered Materials.**

- a. **Applicability:** This requirement applies to all Federal grant and cooperative agreement programs.
- b. **Standard.** A non-Federal entity that is a **state agency or agency of a political subdivision** of a state and its contractors must comply with Section 6002 of the Solid Waste Disposal Act, Pub. L. No. 89-272 (1965) (codified as amended by the Resource Conservation and Recovery Act at 42 U.S.C. § 6962). See 2 C.F.R. Part 200, Appendix II, ¶ J; 2 C.F.R. § 200.322; *PDAT Supplement*, Chapter V, ¶ 7.

The requirements of Section 6002 include procuring only items designated in guidelines of the EPA at 40 C.F.R. Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

- c. **Statement.** The following provides the clause that a state agency or agency of a political subdivision of a state and its contractors can include in contracts meeting the above contract thresholds:

“(1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA- designated items unless the product cannot be acquired—

- (i) Competitively within a timeframe providing for compliance with the contract performance schedule;
- (ii) Meeting contract performance requirements; or
- (iii) At a reasonable price.

- (3) Information about this requirement, along with the list of EPA-designate items, is available at EPA’s Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.”

Additional Required Contract Clauses for Non-Federal Entity Contracts Under Federal Awards with the Federal Emergency Management Agency (FEMA)

Additional FEMA or applicable Federal Requirements. In addition to the requirements above, non-Federal entity contracts under Federal award subject to financial assistance from FEMA are required to contain the following additional contract clauses. The Uniform Guidance authorizes FEMA to require additional provisions for non-Federal entity contracts. FEMA, pursuant to this authority, requires or recommends the following:

These clauses are incorporated by reference as part of this procurement packet and any resulting agreement.

11. Changes.

a. Standard. To be eligible for FEMA assistance under the non-Federal entity's Federal grant or cooperative agreement, the cost of the change, modification, change order, or constructive change must be allowable, allocable, within the scope of its grant or cooperative agreement, and reasonable for the completion of project scope. FEMA or applicable Federal entity recommends, therefore, that a non-Federal entity include a changes clause in its contract that describes how, if at all, changes can be made by either party to alter the method, price, or schedule of the work without breaching the contract. The language of the clause may differ depending on the nature of the contract and the end-item procured.

b. Statement. The following provides a contract clause regarding access to records:

“The contractor shall secure written authorization before proceeding with any additional work, whether requested by the County or required to complete the contract. The cost for any changes to the contract price, whether requested by the County or the Contractor will be approved only after submitting the contractor's true costs for the work and related equipment costs and site expenses.”

12. Access to Records.

a. Standard. All non-Federal entities must place into their contracts a provision that all contractors and their successors, transferees, assignees, and subcontractors acknowledge and agree to comply with applicable provisions governing Department and FEMA or applicable Federal entity access to records, accounts, documents, information, facilities, and staff. See DHS Standard Terms and Conditions, v 3.0, ¶ XXVI (2013).

b. Statement. The following provides a contract clause regarding access to records:

“Access to Records. The following access to records requirements apply to this contract:

(1) The contractor agrees to provide the County of Hidalgo, the FEMA or applicable Federal Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

(2) The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

(3) The contractor agrees to provide the FEMA or applicable Federal Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.”

13. DHS Seal, Logo, and Flags.

a. Standard. All non-Federal entities must place in their contracts a provision that a contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS City

officials without specific FEMA or applicable Federal entity pre-approval. See DHS Standard Terms and Conditions, v3.0, ¶ XXV (2013).

- b. Statement. The following provides a contract clause regarding DHS Seal, Logo, and Flags:

“The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS City officials without specific FEMA or applicable Federal entity pre-approval.”

14. Compliance with Federal Law, Regulations, and Executive Orders.

- a. Standard. All non-Federal entities must place into their contracts an acknowledgement that FEMA or applicable Federal financial assistance will be used to fund the contract along with the requirement that the contractor will comply with all applicable Federal law, regulations, executive orders, and FEMA or applicable Federal policies, procedures, and directives.
- b. Statement. The following provides a contract clause regarding Compliance with Federal Law, Regulations and Executive Orders:

“This is an acknowledgement that Federal financial assistance will be used to fund the contract only. The contractor will comply will all applicable Federal law, regulations, executive orders, FEMA or applicable Federal policies, procedures, and directives.”

15. No Obligation by Federal Government.

- a. Standard. The non-Federal entity must include a provision in its contract that states that the Federal Government is not a party to the contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.
- b. Statement. The following provides a contract clause regarding no obligation by the Federal Government:

“The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.”

16. Program Fraud and False or Fraudulent Statements or Related Acts.

- a. Standard. The non-Federal entity must include a provision in its contract that the contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to its actions pertaining to the contract.
- b. Statement. The following provides a contract clause regarding Fraud and False or Fraudulent Related Acts:

“The contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the contractor’s actions pertaining to this contract.”

Contractor agrees to comply with all federal, state and local laws, rules, regulations and ordinances, as applicable. It is further acknowledged that the Contractor read and understands all provisions, laws, acts, regulations, etc. as specifically noted above and certifies compliance with the same.

Vendor's Name/Company Name: _____

Printed Name and Title of Authorized Representative: _____

Signature of Authorized Representative: _____

Date: _____

Exhibit “I”

EHWA 1273

**REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS**

- I. General
- II. Nondiscrimination
- III. Nonsegregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Compliance with Governmentwide Suspension and Debarment Requirements
- XI. Certification Regarding Use of Contract Funds for Lobbying

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors.

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

II. NONDISCRIMINATION

The provisions of this section related to 23 CFR Part 230 are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under Title 23 (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services).

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR 60, 29 CFR 1625-1627, Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services). The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR 60, and 29 CFR 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with Title 23 USC Section 140, the Rehabilitation Act of 1973, as amended (29 USC 794), and Title VI of the Civil Rights Act of 1964, as amended, and related regulations including 49 CFR Parts 21, 26 and 27; and 23 CFR Parts 200, 230, and 633.

Contracting agencies may reference Form FHWA-1273 in bid proposal or request for proposal documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract).

The following provision is adopted from 23 CFR 230, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

1. Equal Employment Opportunity: Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630, 29 CFR 1625-1627, 41 CFR 60 and 49 CFR 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor's project activities under

this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract.

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to insure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are

applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs, i.e., apprenticeship, and on-the-job training programs for the geographical area of contract performance. In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, national origin, age or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, national origin, age or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar

with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established there under. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors and suppliers and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurance Required by 49 CFR 26.13(b):

a. The requirements of 49 CFR Part 26 and the State DOT's U.S. DOT-approved DBE program are incorporated by reference.

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women;

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project, indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on Form FHWA-1391. The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor

will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more.

The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size). The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. Contracting agencies may elect to apply these requirements to other projects.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages

a. All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions

of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b.(1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is utilized in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(3) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Wage and Hour Administrator for determination. The Wage and Hour Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or

will notify the contracting officer within the 30-day period that additional time is necessary.

(4) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs 1.b.(2) or 1.b.(3) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

c. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

d. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program. Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

The contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract, or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the contracting agency may, after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and basic records

a. Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-

Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

b.(1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

(2) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(i) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(ii) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(3) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(2) of this section.

(4) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice.

The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed.

Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly

rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination.

In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration.

Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

c. Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

d. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeymen shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor shall insert Form FHWA-1273 in any subcontracts and also require the subcontractors to include Form FHWA-1273 in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

7. Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility.

a. By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

c. The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchmen and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

3. Withholding for unpaid wages and liquidated damages. The FHWA or the contracting agency shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2.) of this section.

4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1.) through (4.) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1.) through (4.) of this section.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions:

(1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;

(2) the prime contractor remains responsible for the quality of the work of the leased employees;

(3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and

(4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract.

2. The contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. The contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is

evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract.

5. The 30% self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements.

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C.3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 1, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

By submission of this bid/proposal or the execution of this contract, or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

1. That any person who is or will be utilized in the performance of this contract is not prohibited from receiving an award due to a violation of Section 508 of the Clean Water Act or Section 306 of the Clean Air Act.

2. That the contractor agrees to include or cause to be included the requirements of paragraph (1) of this Section X in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements.

X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

2. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200)

a. By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the Excluded Parties List System website (<https://www.epls.gov/>), which is compiled by the General Services Administration.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the

department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

* * * * *

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

1. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency.

2. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 (49 CFR 20).

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT
HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS
ROAD CONTRACTS**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

Exhibit "J"

PROPOSER'S AFFIDAVIT

<p style="text-align: center;">PROPOSER'S AFFIDAVIT OF NON-COLLUSION NON-CONFLICT OF INTEREST, AND ANTI-LOBBYING</p>

STATE OF TEXAS
COUNTY OF HIDALGO

Affiant, _____, being first duly sworn, deposes that:

- (1) Affiant does hereby state neither the proposer nor any of the proposer's officers, partners, owners, agents, representatives, employees, or parties in interest, has in any way colluded, conspired, agreed, directly or indirectly with any person, firm, corporation, or another proposer, or potential proposer, to provide any money or other valuable consideration for assistance in procuring or attempting to procure a contract or fix the prices in the attached proposed or the proposal of any other proposer, and further states that no such money or another reward will be hereinafter paid.
- (2) Affiant further states they have neither recommended nor suggested to Hidalgo County or any of its officials or employees, any of the terms or provisions set forth in their Request for Proposal and subsequent agreement, except at a meeting open to all interested proposers, of which proper notice was given.
- (3) Affiant, further states their officers, employees, or agents have not, and will not attempt to lobby, directly or indirectly, the Hidalgo County Commissioner's Court between proposal submission date and award by the Hidalgo County Commissioner's Court.
- (4) Affiant further states no officer, or stockholder of the proposer is a member of the staff, or related to any employee of Hidalgo County except as noted herein below:

Signature/Title: _____

Subscribed and sworn to before me this _____ day of _____, 2020.

Notary Public

My commission expires: _____, 20____



HIDALGO COUNTY

REQUEST FOR BIDS

“Construction of Bus Barn for Hidalgo County Sheriff’s Office”

RFB No.: [2019-267-04-15-ABV](#)

RFB SUBMITTAL CHECK LIST

All forms listed below must be included in the RFB response.

Indicate with a check mark (✓) the Forms completed and included in this response:

_____ Page 12 of Legal Notice

_____ Total Bid Amount

_____ Exhibit “C” -Acknowledgement forms (pages 4 & 5)

_____ Exhibit “D” CIQ Form -Copy of County Clerk File Recording fee receipt. (if applicable)

_____ Exhibit “E” Vendor Bidder Applications, W-9, & HUB/DBE

_____ Exhibit “F” Certification Regarding Debarment

_____ Exhibit “H” Required Contract Clauses for Contracts Under Federal award 2 – CFR 200, Appendix II & FEMA (if applicable)

_____ Exhibit “J” Proposer’s Affidavit

_____ SAM.gov Registration Acknowledgement www.sam.gov

_____ One (1) Original (pages one-sided, clearly marked ORIGINAL), One (1) Copy of Bid(s), and two (2) CD/USB in PDF Format (see number 2 of Legal Notice).

IN WITNESS WHEREOF, the parties to these present have executed this contract in six (6) counterparts, each of which shall be deemed an original, in year and day first above mentioned.

APPROVED BY COMMISSIONERS COURT ON, _____, 2_____.

CONTRACTOR: _____

Print Name & Title: _____

Name of Firm: _____

Address: _____

Fed I.D. #/SS #: _____

STATE OF TEXAS

COUNTY OF HIDALGO

This instrument was acknowledged before me on this the _____ day of _____,
2_____, by _____ Of and on behalf of _____
(Title) (A corporation)

Notary Public-Signature

ATTEST:

COUNTY OF HIDALGO:

Arturo Guajardo, Jr., County Clerk

Richard F. Cortez, County Judge

APPROVED AS TO FORM:
Hidalgo County District Attorney's Office

By: _____
Robert Viña III, Assistant District Attorney