

JEFFERSON COUNTY  
DRAINAGE DISTRICT NO.6

Plans For  
Fleet Maintenance Building (FMB)  
Shallow Foundations & Pavement

PROJECT NO.: IFB21-019/EC  
PROJECT: Construction of FMB Shallow Foundations & Pavement  
LIMITS: DD6 Facility  
PROJECT LOCATION: 6550 Walden Road Beaumont, Texas  
COUNTY: JEFFERSON COUNTY  
DESCRIPTION: Construct Reinforced Concrete Foundations and Pavement.

PROJECT BEGAN (ACTUAL WORK BEGAN):	DATE
PROJECT COMPLETED:	DATE
PROJECT CONSTRUCTED & FINAL PLANS:	<input checked="" type="checkbox"/> CONSTRUCTION <input type="checkbox"/> AS-BUILT
FINAL CONSTRUCTION COST:	\$
TCEQ PERMIT No.:	DD6 is MS4 Operator
GRADING PERMIT No.:	NA
STREET-CUT & BARRICADE No.:	NA
DRIVEWAY PERMIT No.:	NA
BUILDING PERMIT No.:	To Be Obtained by Contractor
ELECTRICAL PERMIT No.:	NA
OTHER PERMIT No.:	NA
TDLR PROJECT No.:	NA
TDLR INSPECTION REQUIRED:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO



BOARD OF DIRECTORS

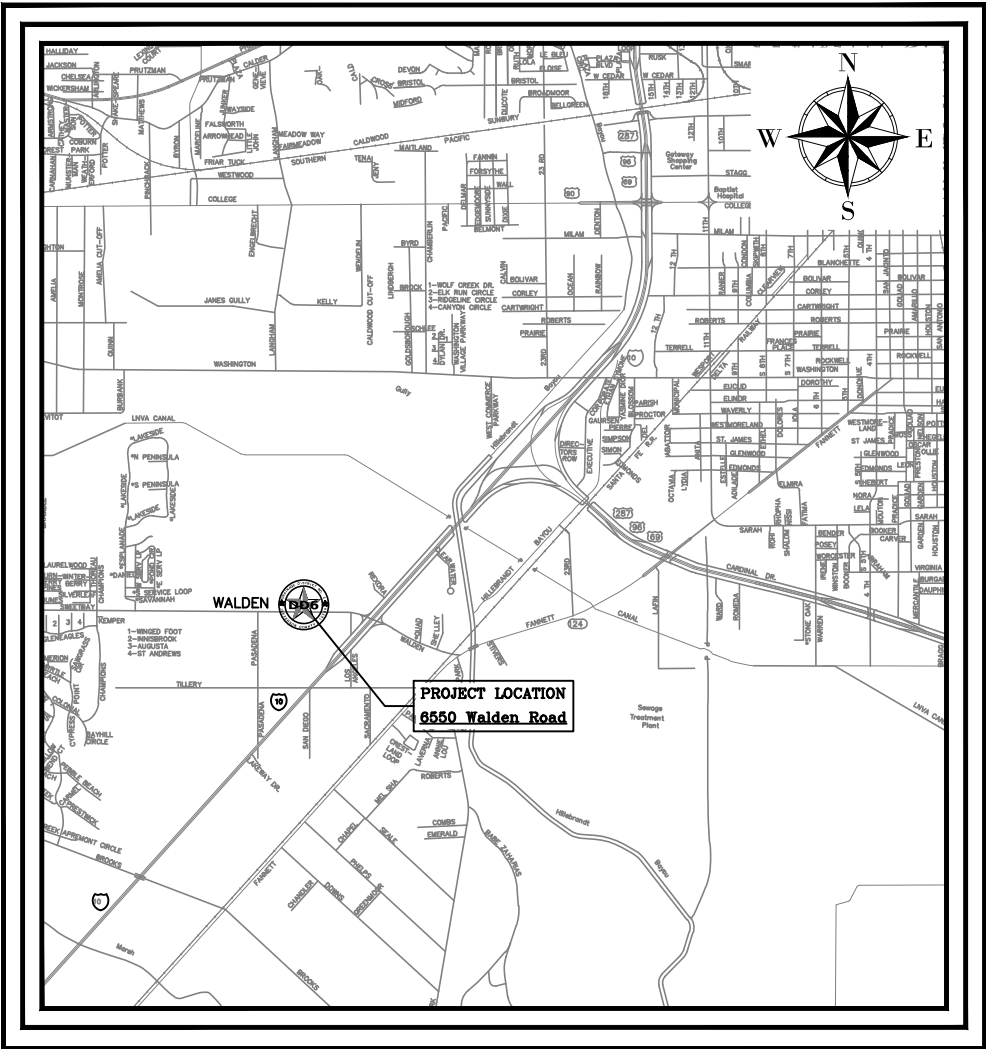
PRESIDENT: JOUSHUA W. ALLEN, SR.  
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DIRECTOR: CHARLES KIKER, III

GENERAL MANAGER

DR. JOSEPH G. MAJDALANI, P.E., C.F.M.

DISTRICT ENGINEER

DOUG CANANT, P.E., R.P.L.S., C.F.M.



LOCATION MAP

SCALE: NTS

JUNE 2021

Harold E. Crochet, Jr.

06/18/2021

PREPARED BY:  
HAROLD E. CROCHET, JR.  
PROJECT ENGINEER ASSISTANT

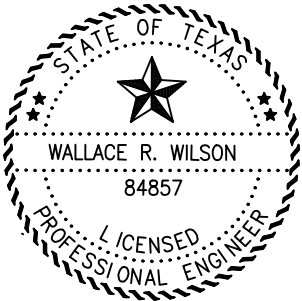
DATE

Wallace R. Wilson P.E.

06/18/2021

APPROVED BY:  
WALLACE R. WILSON, P.E. No.84857  
SENIOR ENGINEER

DATE



INDEX OF SHEETS

GENERAL

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
G01	TITLE SHEET
G02	INDEX OF SHEETS
G03 - 04	GENERAL NOTES & SPECIFICATIONS
G05 - 06	ESTIMATE & QUANTITY SUMMARY SHEETS

PAVEMENT DETAILS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
RDT01	Plan & Profile
RDT02	Type "A" Drilled Shaft Detail
RDT03	Type "B" Drilled Shaft Detail
RDT04	Type "C" Drilled Shaft Detail
RDT05	Type "D" Drilled Shaft Detail
RDT06	Type "E" Drilled Shaft Detail
RDT07	Joint Layout

TXDOT STANDARDS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
JRCP-01	Jointed Reinforced Concrete Pavement Details
JRCP-02	Jointed Reinforced Concrete Pavement Details
JS-14	Concrete Paving Details Joint Seals

MUELLER, INC. STEEL BUILDING SYSTEM AND COMPONENTS FOR:  
JOB NUMBER: 5663293 BUILDING DESCRIPTION: 50' X 250' X 16'-8"

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
C1	Cover Sheet
AB1	Anchor Bolt Plan
AB2 to AB4	Anchor Bolt Details
AB5	Reactions
E1	Roof Plan
E2	Wall Elevation at Grid D
E3	Wall Elevation at Grid A
E4	Wall Elevation at Grid 1
E5	Wall Elevation at Grid 11
E6	Frame Elevation on Grid 1
E7	Frame Elevation on Grid 2
E8	Frame Elevation on Grid 3, 8
E9	Frame Elevation on Grid 4, 9
E10	Frame Elevation on Grid 5, 6, 7, 10
E11	Frame Elevation on Grid 11
E101 to E102	Erection Details
S101	Sheeting Details

Material List Sheets:

01 to 06

GEOTECHNICAL REPORT

ATTACHMENT "A" IN CONTRACT DOCUMENTS

PROJECT LOCATION



FMB Shallow Foundations and Pavement  
INDEX SHEET

DATE

CITY	COUNTY	STATE
BEAUMONT	JEFFERSON	TEXAS
WATERSHED	DITCH NO.	SHEET
100	109-A	G2

### General Notes and Specifications

1. The Texas Department of Transportation Standard Specifications for Construction and Maintenance of Highways, Streets, and Bridges, Adopted November 2014, will govern all specifications not directly addressed in this document.
2. Direct attention to comply with all ordinances and regulations of local municipal and county governments and the TCEQ (Texas Commission on Environmental Quality), which may be applicable on this project.
3. Procure all the necessary city and/or county permits and licenses before the start of this project.
4. Before excavating near existing utilities, contact the utility companies or the utility coordinating committee for exact locations to prevent damage or interference with present facilities. Notify the utility coordinating committee and the Texas One Call System at the following numbers:  
Texas One Call, toll-free 1-800-245-4545

AT&T Communications	Entergy Distribution	CenterPoint Energy Entex	Spectrum	City of Beaumont	City of Beaumont
555 Main - Room 20760	North 11th/ Street	6090 College	602 N. Hwy 69	City Utilities	Public Works-Engineering
Beaumont, Texas 77701	Beaumont, Texas 77701	Beaumont, Texas 77707	Nederland, Texas 77627	Beaumont, Texas 77707	Beaumont, Texas 77707
(409) 839-1666	(409) 785-2136	(409) 860-7111	(409) 720-5565	(409) 785-4720	(409) 880-3725
Ray Hillin	Brian Cross	Robert Young	Adam LaRive	Edward Brown	David Tingle

This action does not relieve the Contractor of the responsibilities under the terms of the contract or the plans and specifications. Damage caused by the Contractor's operations shall be repaired and restored to service in a timely manner at no expense to DD6.

5. Allow DD6 & City forces to enter this project to accomplish such work as shown in the plans (by others) and as may be deemed necessary by the engineer.
6. Maintain for the duration of this project, those sections of existing and proposed travel ways and appurtenances which are to be constructed, reconstructed, or modified under this project.
7. Assume ownership for all designated waste material and dispose of it at a place off of the right of way, as approved by the engineer.
8. Take reasonable measures to avoid the death of any migratory birds, their young or their eggs.
9. If overhead or underground power lines need to be de-energized, contact the electrical service provider to perform this work. Costs associated with de-energizing the power lines or other protective measures required are at no expense to DD6. If working near power lines, comply with the appropriate sections of Texas State Law and Federal Regulations relating to the type of work involved.
10. Prior to final acceptance, all new and existing structures and extensions shall be cleaned and free of debris and dirt and all outfall channels unobstructed. This work will not be paid for directly but will be considered subsidiary to the various bid items.
11. Maintain adequate drainage throughout the limits of the project during all construction phases.
12. Verify material quantities and dimensions prior to ordering materials.
13. The Contractor will establish the project control point, points, or tangency, PI's (points of intersection), point of curvature (PC, PI, and PT) and bench marks at the beginning and end of the project on the plan view only. Contractor shall establish and maintain these points throughout construction. There will be no separate payment for this work, but it shall be considered subsidiary to various bid items.
14. Longitudinal Joints, Construction Joints and Sawed Joints shall be installed as shown on construction detail sheet.
15. Any saw-cutting required for the project shall not be paid for directly but shall be considered subsidiary to various bid items.
16. The Contractor will notify the Engineer 48 hours in advance of completed work per site. The Engineer will inspect each site and submit a punch list per location to the Contractor as necessary. The Contractor will not demobilize from site until the Engineer has approved all work including punch list items.
17. **Contractor shall refer to Mueller, Inc. Steel Building Systems and Components Construction Drawings for Plan, Profile and Detail sheets, Job No. 5663293 Building Description, 50'-0" x 250'-0" x 16'-8".**

**End of General Notes**

[illegible]

Specifications

Item 5: Control of Work

1. Station the project prior to commencing work. Mark the stations every 100 feet. Maintain stationing throughout the duration of the project. Remove the station markings at the completion of the project. Consider this work to be subsidiary to the various bid items of the contract.

Item 7: Legal Relations and Responsibilities

1. Furnish all materials, labor and incidentals required to provide for traffic across the street and for temporary ingress and egress to private property. Consider this work to be subsidiary to the various bid items of the contract.

Item 8: Prosecution and Progress

1. Compute and charge calendar days in accordance with Article 8.3.1.4, "Standard Workweek" & Article 8.3.1.6, "Other". Monday through Friday with the option of working Saturdays when the Engineer is provided sufficient advance notice.
2. Gather information and direct attention to the aspects of adjoining projects that may be in the progress during the construction of a portion of this project. Plan and prosecute the sequence of construction and the traffic control plan with adjacent construction projects so as not to interfere with, or hinder the completion of the work in progress on the adjoining projects. Coordinate projects to ensure an uninterrupted flow of traffic.

Item 9: Measurement and Payment

1. The Contractor shall submit all tickets, As-Built drawings and updated schedule with each pay request. As-Built for pay request will be the Plan sheet with qty's on each plan sheet.
2. DD6 will withhold a 3% retainage from each pay request.

Item 360: Concrete Pavement

1. Concrete will be Class-P.
2. Texture will be carpet drag.
3. The Contractor shall provide an approved concrete design.
4. All testing is waved except strength and slump.
5. Testing will be paid for by the contractor and records given to DD6.

Item 416: Drilled Shaft

1. Concrete will be Class-C
2. Contractor shall refer to the TWE Geotechnical Report No. 122004 for Drilled Footing Installation Procedures.


Item 440: Reinforcement for Concrete

1. Reinforcement will be rebar. Welded-Wire will not be allowed.

Item 500: Mobilization

1. Mobilization shall not exceed ten (10) percent of the total construction items amount.

End of Specifications

		PROJECT LOCATION			
		CITY	COUNTY	STATE	
		BEAUMONT	JEFFERSON	TEXAS	
		WATERSHED	DITCH NO.	SHEET	
		100	109-A	G4	
FMB Shallow Foundations and Pavement GENERAL NOTES & SPECIFICATIONS		DATE			
NO. DATE		REVISION		APPROV.	
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2		1			



Base Bid Estimate						
Item		Description	Total			
Item No.	Description Code		Estimated Quantity	Unit	Final Quantity	Unit
360	001	Concrete Pavement (Joint Reinforced) (Class-P/8")	1,260	S.Y.		S.Y.
360	001	Concrete Pavement (Joint Reinforced) (Class-P/6")	40	S.Y.		S.Y.
416	001	Drilled Shaft Foundations (Reinforced Class-C)	480	LF		LF
500	001	Mobilization (Not to Exceed 10%)	1	LS		LS

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1

NO. DATE DRN

REVISION

APPROV.

FMB Shallow Foundations and Pavement  
Estimate & Quantities Sheet

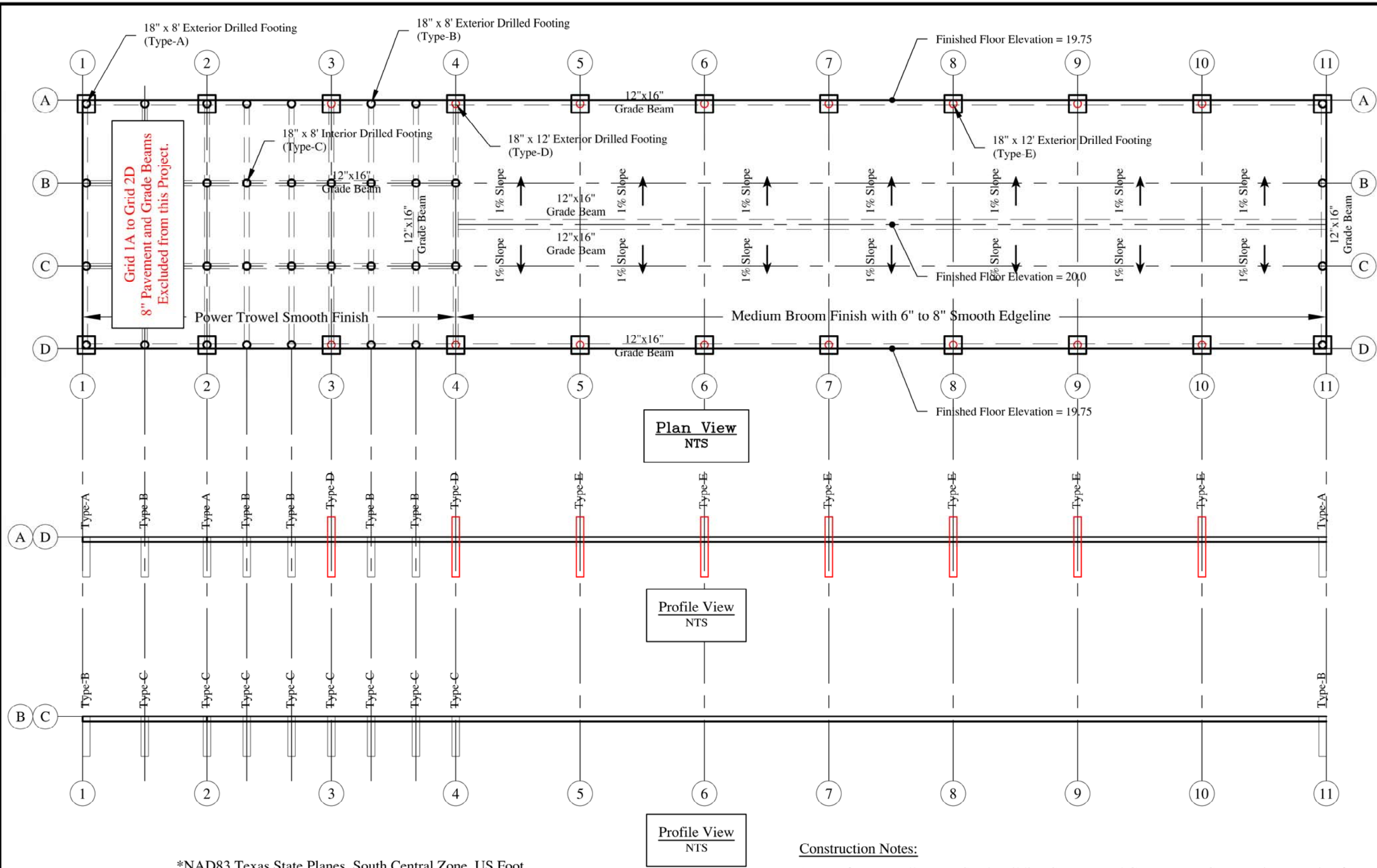
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PROJECT LOCATION			
CITY	COUNTY	STATE	
BEAUMONT	JEFFERSON	TEXAS	
WATERSHED	DITCH NO.	SHEET	
100	110	G5	



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\*NAD83 Texas State Planes, South Central Zone, US Foot  
DD6 BM = 17.64 @ N 13957490.492 , E 3497043.944

\*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.


\*All Prop. Reinforced Drilled Shafts shall be Class-C.

\*See TxDOT Details for Pavement Reinforcement and Joint Details.


**Construction Notes:**

- Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - Typ. Overhead Door Recess
  - Typ. Sheeting Recess with & without Base Drip Edge Trim
  - Anchor Bolt Plan and Anchor Bolt Details.
- Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

PROJECT LOCATION			
CITY	COUNTY	STATE	
BEAUMONT	JEFFERSON	TEXAS	
WATERSHED	DITCH NO.	SHEET	
100	109-A	RDT01	

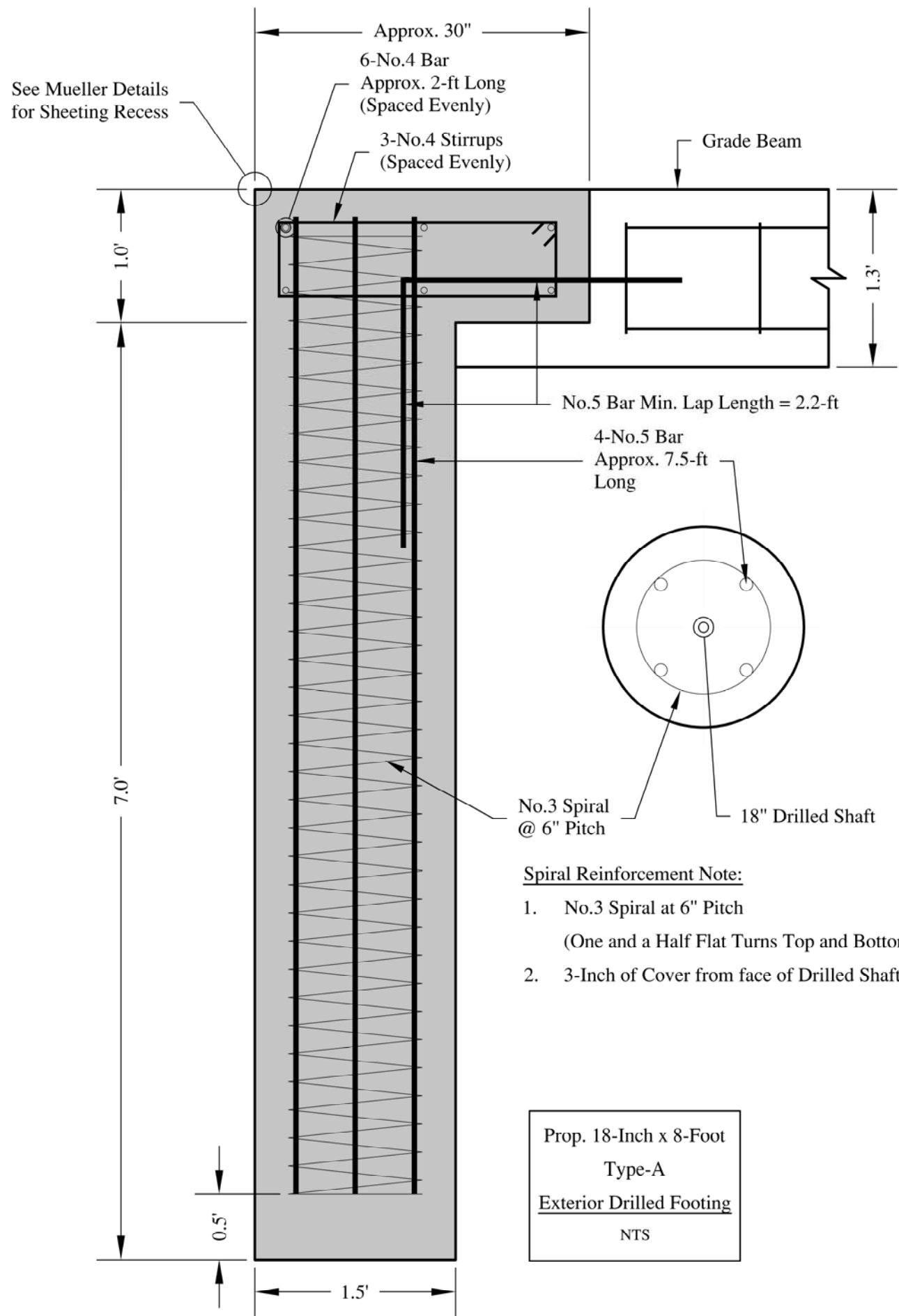


FMB Shallow Foundations & Pavement  
Plan & Profile  
WALLACE R. WILSON, P.E. No. 84857  
*Wallace R. Wilson P.E.* 06/18/21  
DATE



NO.	DATE	DRN	REVISION	APPROV.
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\*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.

\*All Prop. Reinforced Drilled Shafts shall be Class-C.


Construction Notes:

- Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - Typ. Overhead Door Recess
  - Typ. Sheeting Recess with & without Base Drip Edge Trim
  - Anchor Bolt Plan and Anchor Bolt Details.
- Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

PROJECT LOCATION				
CITY	COUNTY	STATE	DITCH NO.	SHEET
BEAUMONT	JEFFERSON	TEXAS		
WATERSHED				
100	109-A			RDT02



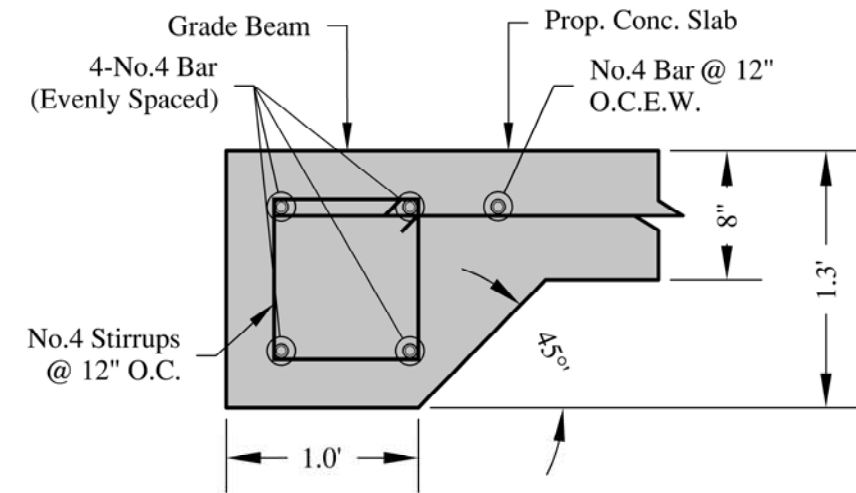
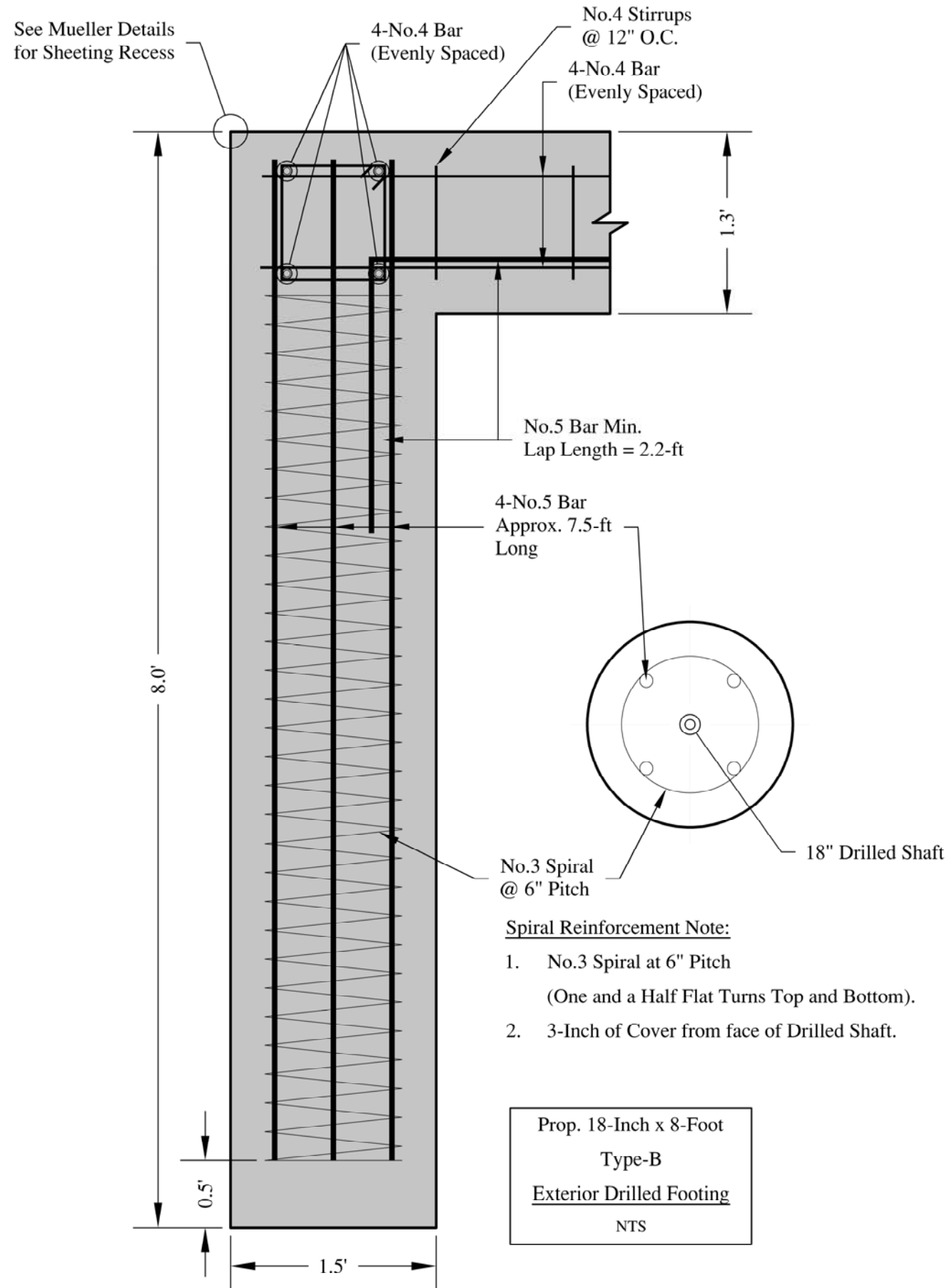
FMB Shallow Foundations & Pavement  
Type "A" Drilled Footing  
WALLACE R. WILSON, P.E. No. 84857  
*Wallace R. Wilson* P.E. 06/18/21



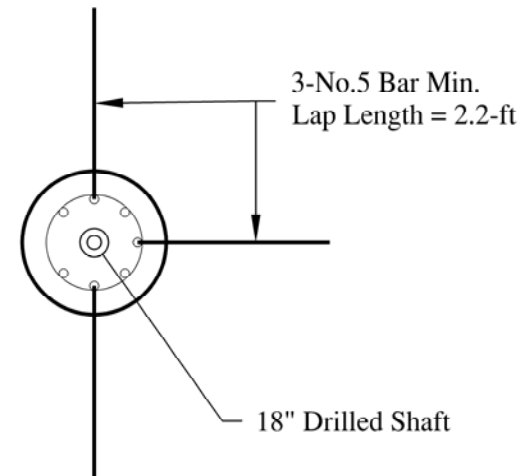
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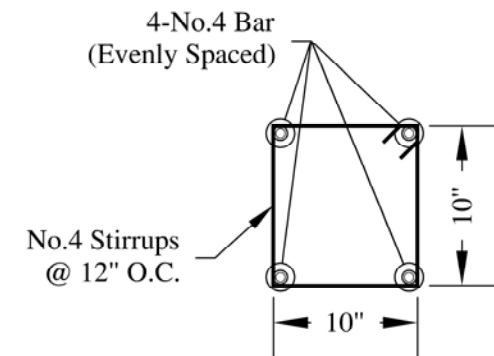
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Typ. Grade Beam Without Drilled Footing NTS



Typ. Drilled Footing Tie-In NTS



Typ. Grade Beam Reinforcement NTS

\*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.

\*All Prop. Reinforced Drilled Shafts shall be Class-C.

Construction Notes:

- Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - Typ. Overhead Door Recess
  - Typ. Sheeting Recess with & without Base Drip Edge Trim
  - Anchor Bolt Plan and Anchor Bolt Details.
- Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

PROJECT LOCATION

CITY	COUNTY	STATE
BEAUMONT	JEFFERSON	TEXAS
WATERSHED	DITCH NO.	SHEET
100	109-A	RDT03



FMB Shallow Foundations & Pavement

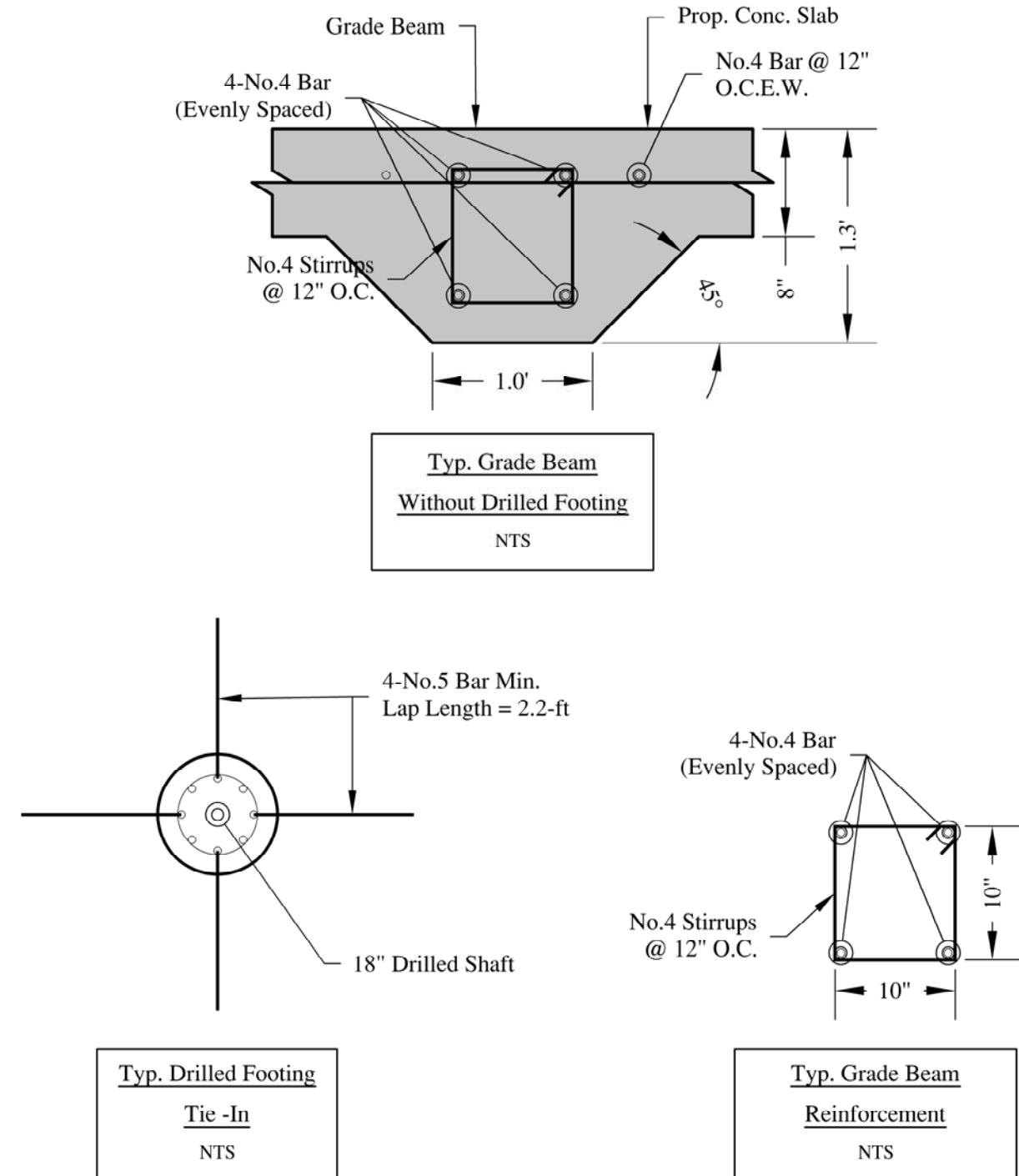
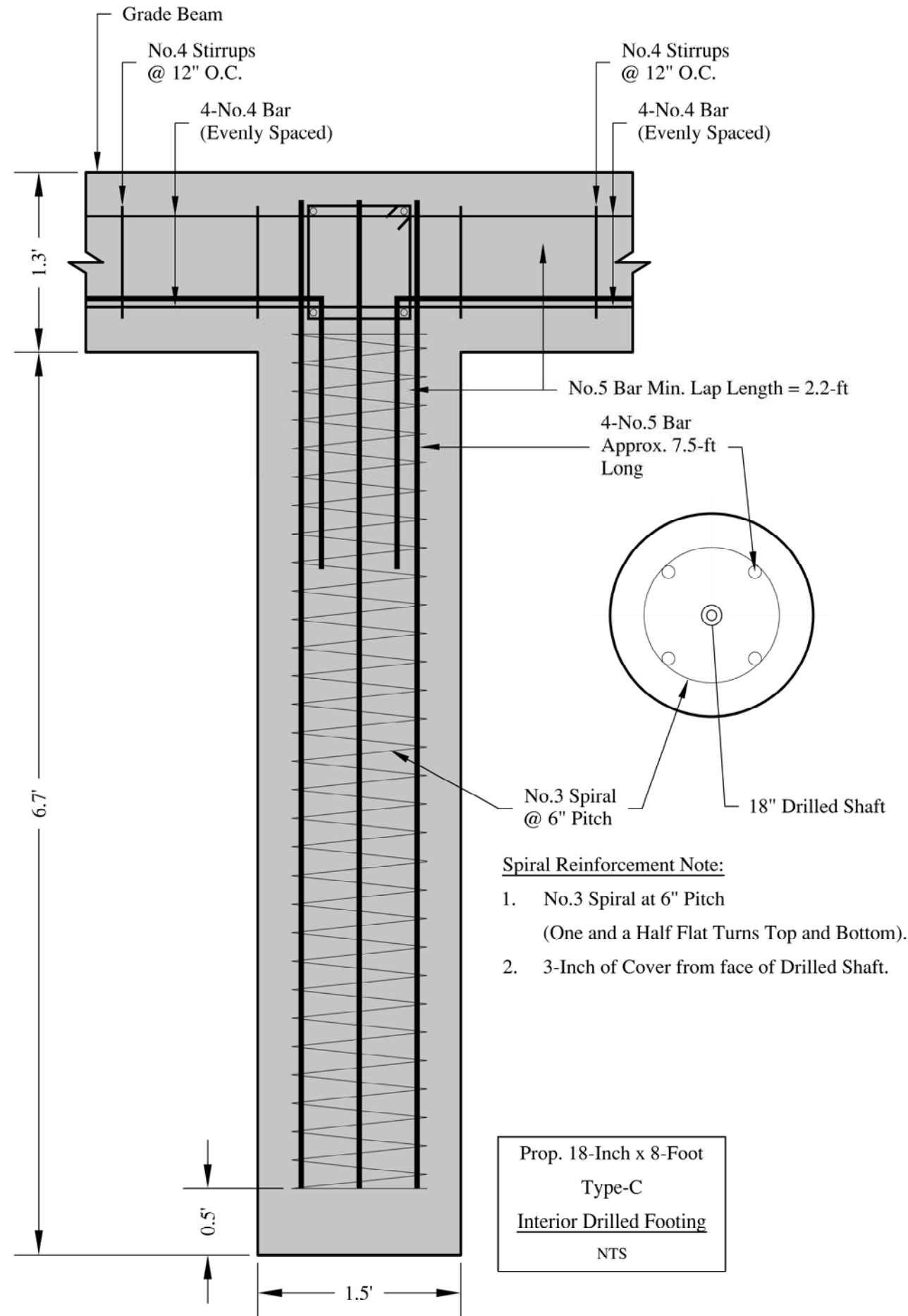
Type "B" Drilled Footing

WALLACE R. WILSON, P.E. No.84857  
DATE 06/18/21  
*Wallace R. Wilson P.E.*



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\*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.

\*All Prop. Reinforced Drilled Shafts shall be Class-C.

#### Construction Notes:

- Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - Typ. Overhead Door Recess
  - Typ. Sheeting Recess with & without Base Drip Edge Trim
  - Anchor Bolt Plan and Anchor Bolt Details.
- Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

PROJECT LOCATION			
CITY	COUNTY	STATE	
BEAUMONT	JEFFERSON	TEXAS	
WATERSHED	DITCH NO.	SHEET	
100	109-A		RDT04




FMB Shallow Foundations & Pavement

Type "C" Drilled Footing

WALLACE R. WILSON, P.E. No. 84857

DATE 06/18/21

Wallace R. Wilson P.E.



STATE OF TEXAS

WALLACE R. WILSON

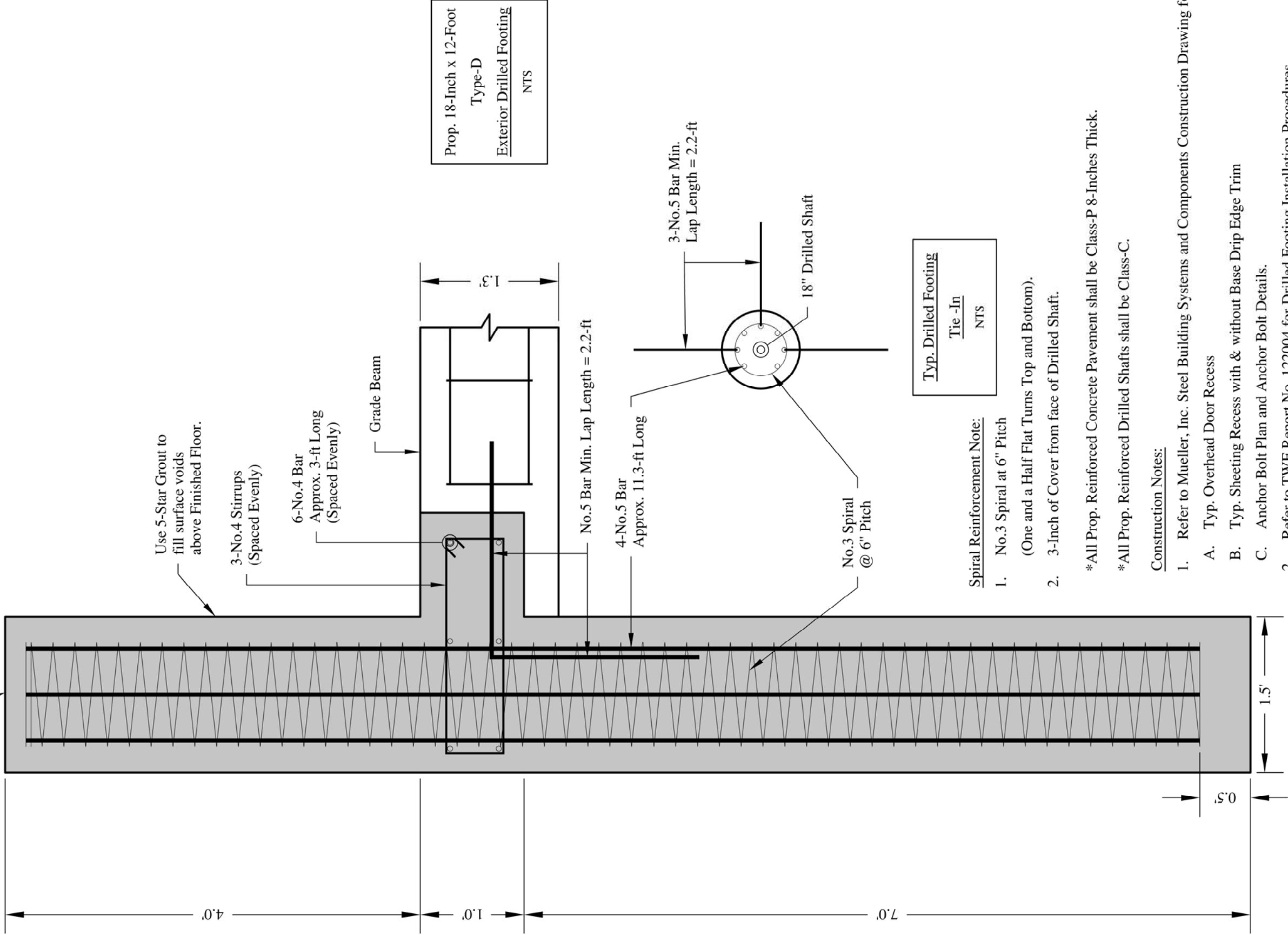
84857

PROFESSIONAL ENGINEER

NO.	DATE	DRN	REVISION	APPROV.
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Use 5-Star Grout around Base Plates to fill void and slope to drain away from plate.



Typ. Drilled Footing  
Tie-In  
NTS

Spiral Reinforcement Note:

1. No.3 Spiral at 6" Pitch (One and a Half Flat Turns Top and Bottom).
2. 3-Inch of Cover from face of Drilled Shaft.

\*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.

\*All Prop. Reinforced Drilled Shafts shall be Class-C.

Construction Notes:

1. Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - A. Typ. Overhead Door Recess
  - B. Typ. Sheetting Recess with & without Base Drip Edge Trim
  - C. Anchor Bolt Plan and Anchor Bolt Details.
2. Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

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FMB Shallow Foundations & Pavement

Type "D" Drilled Footing

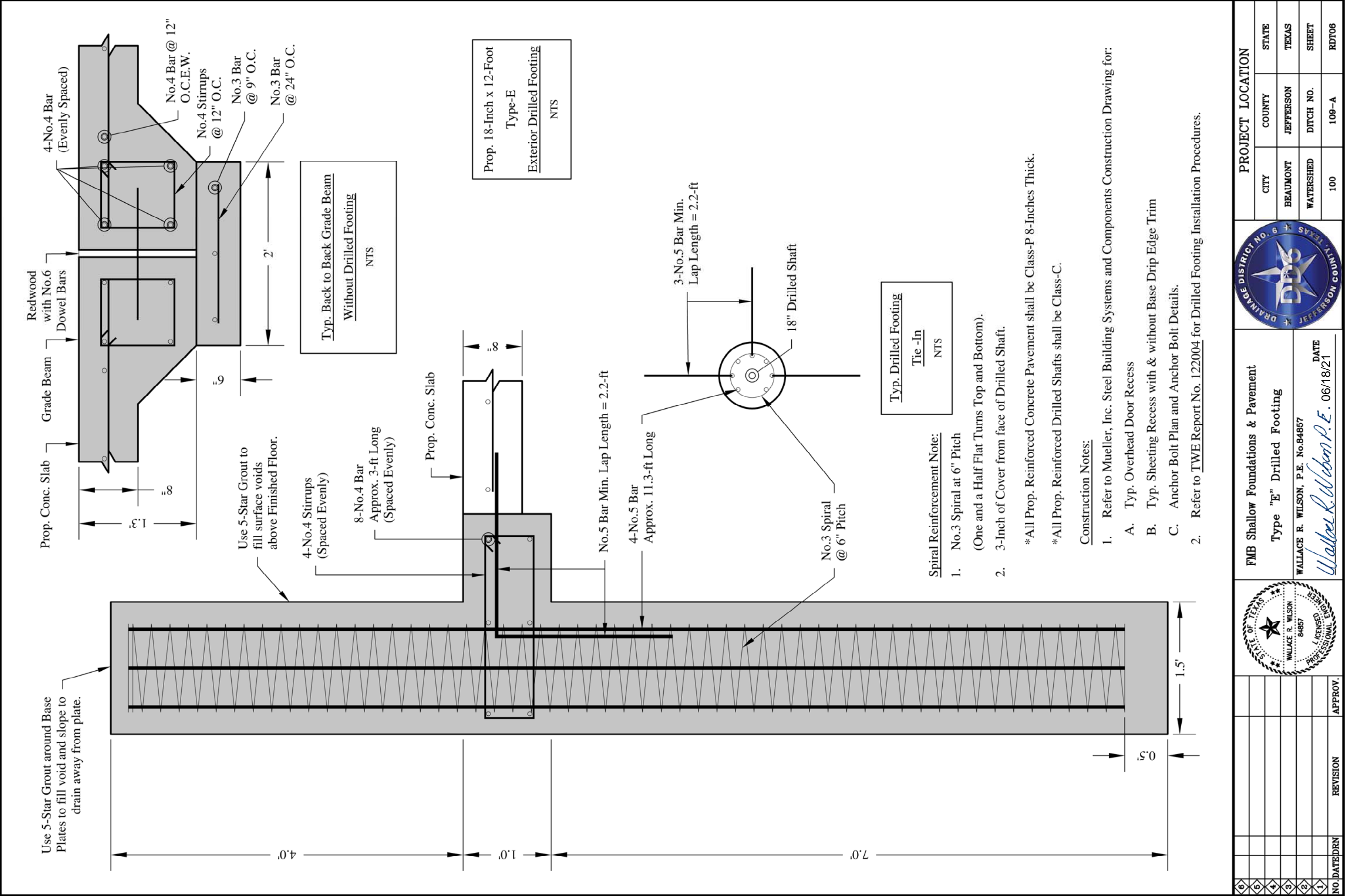
WALLACE R. WILSON, P.E. No. 84857

Wallace R. Wilson P.E. 06/18/21

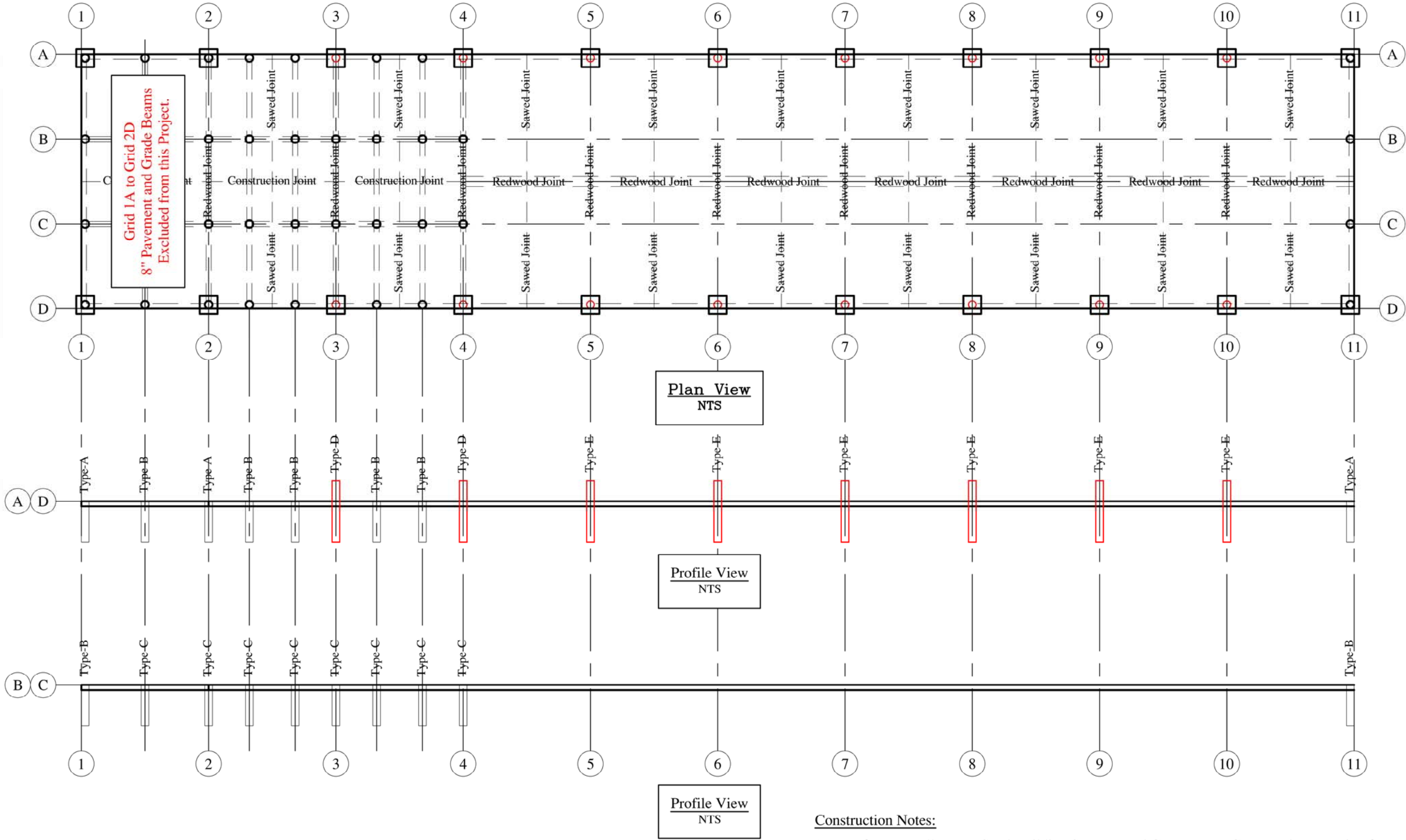


PROJECT LOCATION

CITY	COUNTY	STATE
BEAUMONT	JEFFERSON	TEXAS
WATERSHED	DITCH NO.	SHEET
100	108-A	RDT05



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- \*All Prop. Reinforced Concrete Pavement shall be Class-P 8-Inches Thick.
- \*All Prop. Reinforced Drilled Shafts shall be Class-C.
- \*See TxDOT Details for Pavement Reinforcement and Joint Details.

Construction Notes:


- Refer to Mueller, Inc. Steel Building Systems and Components Construction Drawing for:
  - A. Typ. Overhead Door Recess
  - B. Typ. Sheeting Recess with & without Base Drip Edge Trim
  - C. Anchor Bolt Plan and Anchor Bolt Details.
- Refer to TWE Report No. 122004 for Drilled Footing Installation Procedures.

PROJECT LOCATION	
CITY	COUNTY
BEAUMONT	JEFFERSON
WATERSHED	DITCH NO.
100	109-A
STATE	TEXAS
SHEET	RDT07



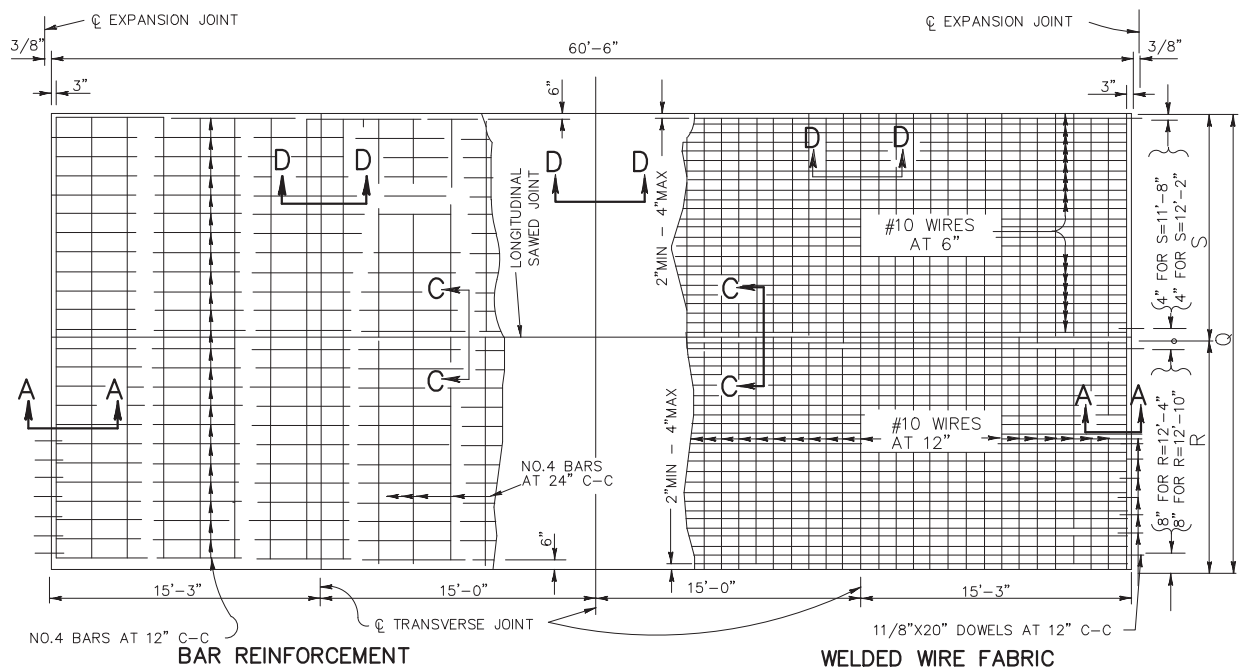
FMB Shallow Foundations & Pavement  
Joint Layout

WALLACE R. WILSON, P.E. No. 84857  
*Wallace R. Wilson P.E.* DATE 06/18/21



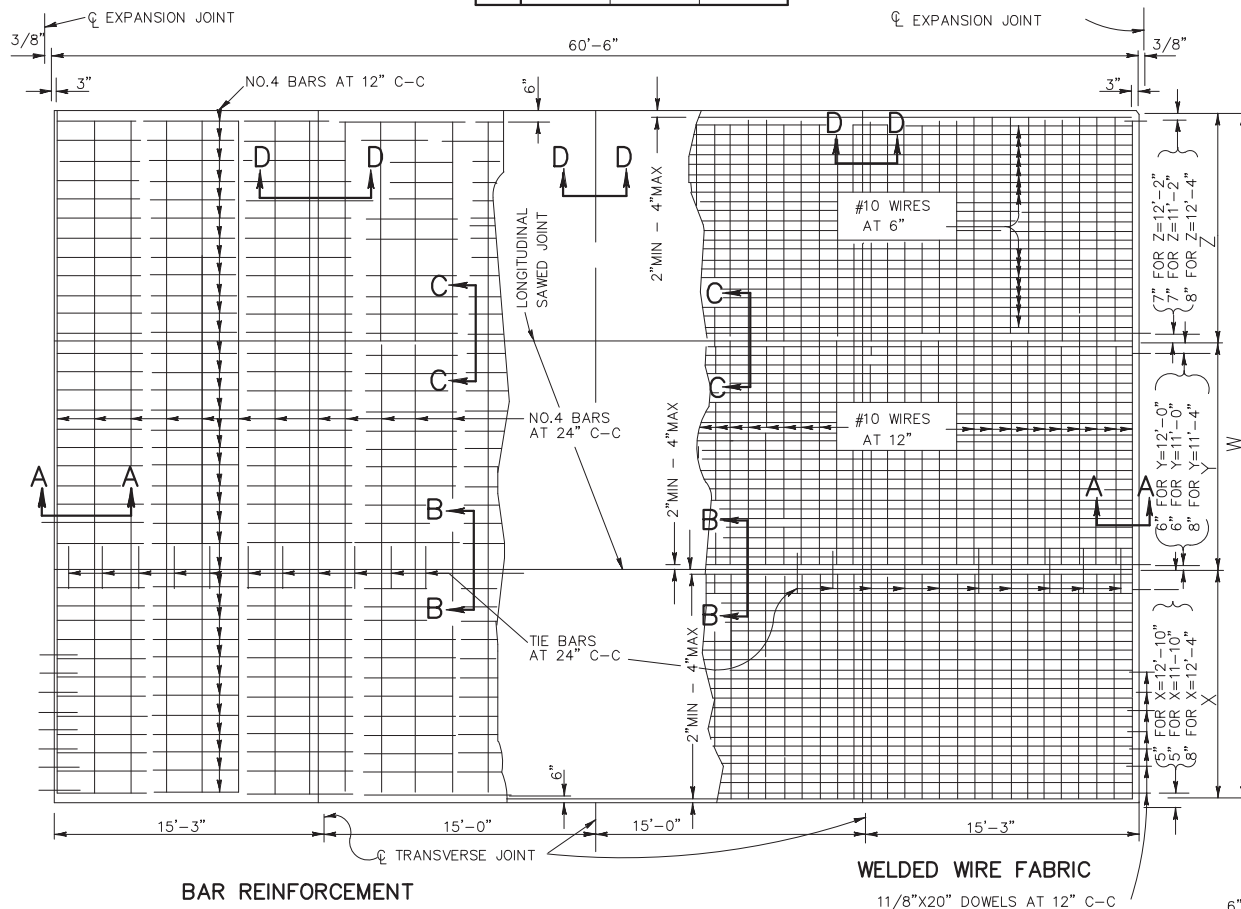
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TWO LANE PAVEMENT PLAN

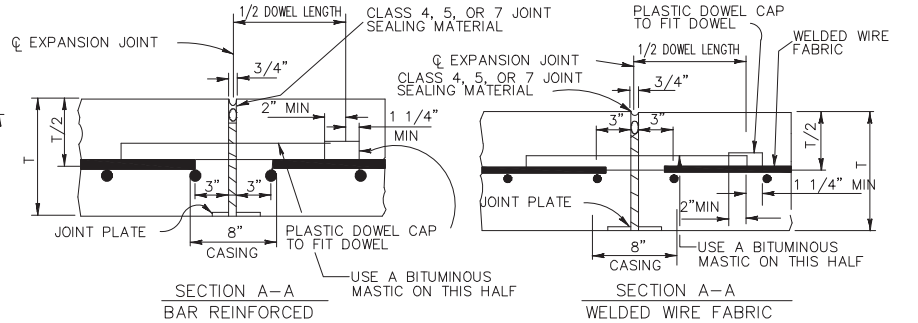
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	24'-0"	24'-6"	25'-0"
R	12'-4"	12'-4"	12'-10"
S	11'-8"	12'-2"	12'-2"



THREE LANE PAVEMENT PLAN

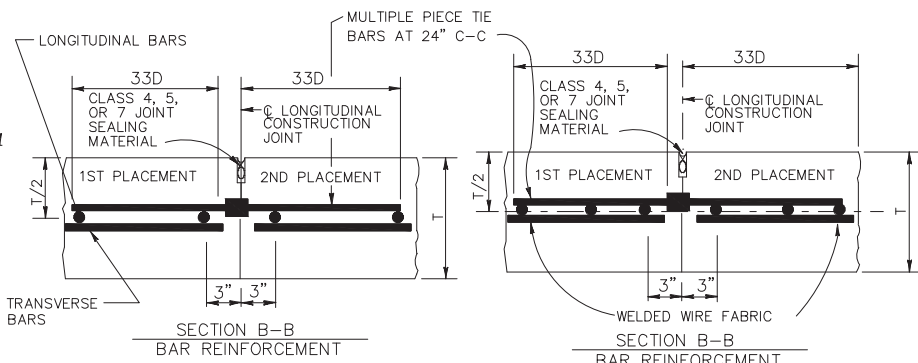
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	37'-0"	36'-0"	34'-0"
X	12'-10"	12'-4"	11'-10"
Y	12'-0"	11'-4"	11'-0"
Z	12'-2"	12'-4"	11'-2"

D = DIAMETER  
R = RADIUS  
T = THICKNESS

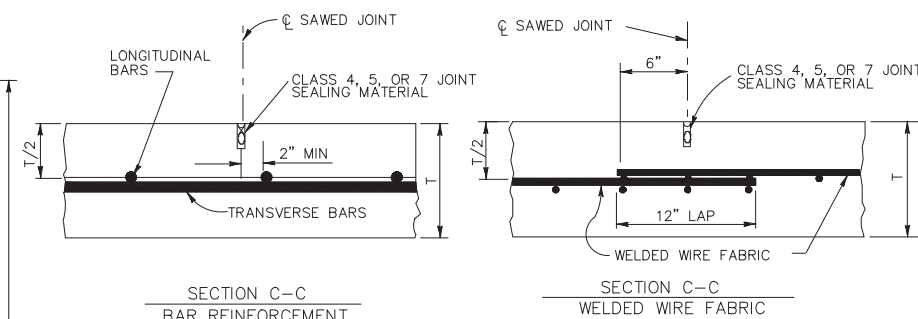


TRANSVERSE EXPANSION JOINTS

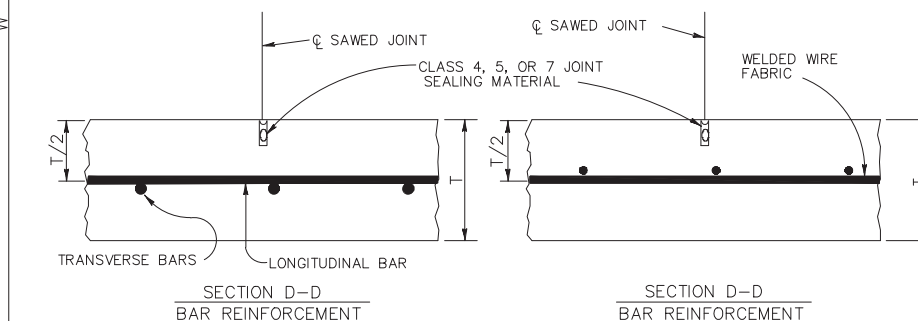
NOTE: DOWEL BARS CONFORMING TO ASTM A615 OR A616 GRADE 60 ARE ACCEPTABLE



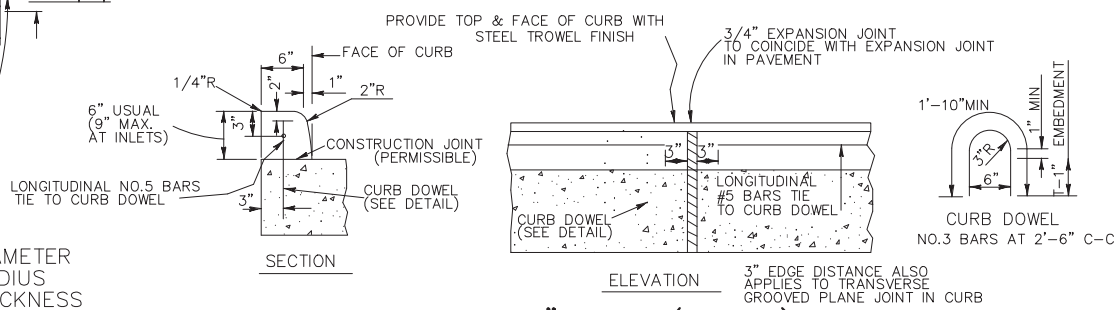
LONGITUDINAL CONSTRUCTION JOINTS



LONGITUDINAL SAWED JOINTS



TRANSVERSE SAWED JOINTS



TYPICAL 6" CURB (DETAIL)

#### GENERAL NOTES

- MULTIPLE PIECE TIE BARS ARE REQUIRED AT LONGITUDINAL CONSTRUCTION JOINTS. USE MULTIPLE PIECE TIE BAR ASSEMBLIES WITH STOP TYPE COUPLINGS AND WITH THREADS ON THE BARS. ENSURE THE MULTIPLE PIECE TIE BAR ASSEMBLIES DEVELOP A MINIMUM ULTIMATE TENSILE STRENGTH EQUAL TO 1.25 TIMES THE YIELD STRENGTH OF THE TRANSVERSE BARS BEING JOINED. USE DEFORMED REINFORCING BARS FOR TIE BARS. TIE BAR ASSEMBLIES MADE FROM STEELS OTHER THAN ASTM GRADE 60 AND WITH DEFORMATIONS OTHER THAN ASTM STANDARD MAY BE USED IF IT CAN BE PROVEN TO THE ENGINEER THAT THEY ARE IN EVERY RESPECT THE EQUAL OF THE ASSEMBLIES SPECIFIED. LABORATORY TESTING OF THE PROPOSED ASSEMBLIES, AT THE CONTRACTOR'S EXPENSE, MAY BE REQUIRED.
- FORM CONSTRUCTION JOINTS WITH METAL OR WOOD FORMS EQUAL IN DEPTH TO THE NOMINAL DEPTH OF THE PAVEMENT OR BY OTHER MEANS APPROVED PRIOR TO THEIR USE.
- SAW LONGITUDINAL AND TRANSVERSE JOINTS AS SOON AS SAWING CAN BE ACCOMPLISHED WITHOUT DAMAGE TO THE PAVEMENT AND BEFORE 24 HOURS AFTER PLACING THE CONCRETE, THE EXACT TIME WILL BE APPROVED BY THE ENGINEER. PREFORMED JOINT WITH ASPHALT STRIP IS NOT ACCEPTABLE.
- LONGITUDINAL JOINTS ARE SHOWN OFFSET FOUR INCHES FROM THE THEORETICAL LANE LINE AND MAY BE OFFSET TO EITHER SIDE IF THE WIDTH OF THE WIRE FABRIC IS PROPERLY ADJUSTED.
- ONE OF THE LONGITUDINAL JOINTS OF PAVEMENT SLABS WIDER THAN TWO LANES MAY BE A CONSTRUCTION JOINT. FOR PAVEMENT SLABS WIDER THAN 15 FT. PROVIDE A LOGITUDINAL SAWED JOINT UNLESS OTHERWISE DIRECTED.
- FORM THE JOINT SEAL SPACE AT TRANSVERSE EXPANSION JOINTS BY USING A STRAIGHT FORM PLACED BEHIND THE LONGITUDINAL FLOAT. LOOSEN THE FORM AS SOON AS THE CONCRETE WILL RETAIN ITS SHAPE AND EDGE WITH AN APPROVED EDGING TOOL. TOOL BOTH EDGES OF LONGITUDINAL CONSTRUCTION JOINTS TO A 1/8IN. RADIUS AT THE PAVEMENT SURFACE.
- DO NOT DISCHARGE CONCRETE FROM THE MIXER DIRECTLY ON TOP OF OR ON THE SIDES OF THE EXPANSION JOINT ASSEMBLIES.
- LAP TRANSVERSE EDGES OF SHEETS OF WELDED WIRE FABRIC 12 INCHES EXCEPT AT TRANSVERSE EXPANSION JOINTS. LAP LONGITUDINAL EDGES 6 INCHES EXCEPT AT LONGITUDINAL CONSTRUCTION JOINTS.
- DOWEL BARS MAY BE COATED WITH STAINLESS STEEL, MONEL METAL, OR IN ACCORDANCE WITH THE ITEM "REINFORCING STEEL" SECTION ON EPOXY COATING; WITH A WELDED DOWEL ASSEMBLY SUPPORT, AS APPROVED. ENSURE THE CASING CONFORMS TO THE REQUIREMENTS OF ONE OF THE GRADES OF ASTM A167-70 OR A176-71 AND IS NOT LESS THAN 0.010 INCH THICK. PROVIDE A CASING AT LEAST 8 INCHES LONG AND THAT COVERS THE MIDDLE 8 INCHES OF THE DOWEL.
- SECURE DOWELS PARALLEL TO THE PAVEMENT SURFACE AND PERPENDICULAR TO THE JOINT WITH THE AID OF APPROVED WELDED WIRE BASKET ARRANGEMENTS. ENSURE WELDED WIRE BASKET ARRANGEMENTS DO NOT CROSS THE EXPANSION JOINT. UNIFORMLY COAT DOWELS WITH A BITUMINOUS MASTIC ON THE END WITH THE DOWEL CAP.
- DO NOT BEND TIE BARS AND DOWEL BARS. TO PREVENT DISPLACEMENT OF WIRE FABRIC BY CONCRETE PLACEMENT, TIE THE FABRIC PANEL TOGETHER AND TIE THE INITIAL FABRIC PANELS OF EACH SLAB TO THE DOWEL BASKET OR AS DIRECTED.
- TOOL PAVEMENT EDGES TO A RADIUS OF 1/8 IN. WITH AN APPROVED EDGING TOOL.
- DETAILS FOR PAVEMENT WIDTH, PAVEMENT THICKNESS, AND CROWN-SLOPE ARE ELSEWHERE SHOWN ON THE PLANS.
- THE CONTRACTOR HAS THE OPTION OF USING WELDED WIRE FABRIC OR BAR REINFORCEMENT. LOCATE THE LONGITUDINAL STEEL AT THE CENTER OF THE SLAB. TAKE NECESSARY PRECAUTIONS TO INSURE THAT THE FINAL POSITION OF STEEL IS WITHIN 1/2 IN. OF THE SLAB CENTER. ENSURE THE LONGITUDINAL AND TRANSVERSE STEEL SPACING DOES NOT VARY MORE THAN ONE-TWELFTH OF SPACING SHOWN.
- LONGITUDINAL STEEL MAY BE SPLICED WITH 33 TIMES BAR DIAMETER LAPS.
- FOR LANE WIDTHS NOT SHOWN OR FOR VARIABLE PANEL LENGTHS AND WIDTHS, SPACE REINFORCING STEEL AND DOWELS AS DIRECTED.
- USE APPROVED BAR MAT CHAIRS. DO NOT EXCEED CHAIR SPACING OF 30 IN. C-C (TRANSVERSE) AND 48 IN. C-C (LONGITUDINAL). GALVANIZING THE CHAIRS IS NOT REQUIRED.
- OBTAIN BOARDS FOR EXPANSION JOINT FILLER FROM REDWOOD TIMBER.
- PROVIDE AND CONSTRUCT THE JOINT PLATE AS APPROVED.
- WHEN CURB IS PLACED SEPARATELY FROM THE CONCRETE PAVEMENT, PROVIDE THE REINFORCING STEEL AS SHOWN IN THE CURB DETAIL. THE CURB REINFORCING STEEL MAY BE OMITTED WHEN THE CURB IS PLACED MONOLITHICALLY.

(GENERAL NOTES CONTINUED ON SHEET 2 OF 2)

<b>Texas Department of Transportation</b> Houston District									
<b>JOINTED REINFORCED CONCRETE PAVEMENT DETAILS</b> (FOR PAVEMENT THICKNESS 10 INCHES OR LESS)									
<b>JRCP</b> SHEET 1 OF 2									
FILE: STDB-2.dgn	DN:	CK:	DW:	CK:					
© TxDOT MAR.2004	DIST	FED REG	PROJECT NO.		SHEET				
REVISIONS 5/05 2004 SPECS 7/2010 ADDED NOTE 8/2015 MODIFIED NOTES		HOU	6						
		COUNTY	CONTROL	SECT	JOB	HIGHWAY			



NOTE A:  
SEE SHEET 1 OF 2 FOR  
STEEL PLACEMENT FOR THE  
RESPECTIVE LANE WIDTHS.  
EDGE OF CONC.




## JOINT SEALING DETAILS



## EXPANSION JOINTS

21. CONSTRUCT ANCHOR LUGS, EXPANSION JOINTS, AND SLEEPER SLABS AS DETAILED IN SECTION A-A. THESE WILL BE PAID FOR IN ACCORDANCE WITH ITEM, "CONCRETE PAVEMENT TERMINALS."
22. REINFORCING STEEL FOR TERMINAL ANCHOR SYSTEMS MAY BE GRADE 40 OR GRADE 60.
23. PLACE CONCRETE FOR ANCHOR LUGS AS SOON AS POSSIBLE AFTER COMPLETING EXCAVATION, TO PRESERVE THE INHERENT SOIL CHARACTERISTICS. EXCAVATING FOR AND PLACING CONCRETE FOR ANCHOR SYSTEM MAY BE IN PREFORMED SECTIONS CORRESPONDING TO THE WIDTH OF PAVING PLACEMENT.
24. APPLY A STEEL TROWEL FINISH TO SLEEPER SLABS AND AND COAT WITH AN ASPHALT BOND BREAKER.
25. THE DETAILS FOR ANCHORS, LUGS, EXPANSION JOINTS, AND SLEEPER SLABS ARE NOT APPLICABLE UNLESS SHOWN ELSEWHERE IN THE PLANS.
26. APPROACH SLAB WILL BE PAID FOR IN ACCORDANCE WITH THE ITEM "CONCRETE STRUCTURES."
27. WITHIN 5 MINUTES OF SAWING, COMPLETELY REMOVE THE RESULTING SLURRY FROM THE JOINT BY FLUSHING WITH HIGH PRESSURE WATER. THEN ALLOW THE JOINT TO DRY FOR A MINIMUM OF 48 HOURS BEFORE SANDBLASTING THE JOINT.
28. DO NOT SHEAR CUT DOWEL BARS.
29. SIZE ADDITIONAL SHEAR BARS AS LONGITUDIAL BARS AND SPACE THEM MIDWAY BETWEEN ALTERNATE LONGITUDINAL BARS ALONG THE TRANSVERSE CONSTRUCTION JOINT FORMED AT THE LEAVE-OUT.
30. IF THE CONCRETE DESIGN REQUIRES GREATER THAN 5.5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD, WRITTEN APPROVAL BY THE AREA ENGINEER WILL BE REQUIRED. ENSURE CONCRETE PAVEMENT MIXES PLACED FROM APRIL 1 TO OCTOBER 31, CONTAIN A MINIMUM OF 25 PERCENT BY WEIGHT OF CLASS "F" FLY ASH.
31. IN LOCATIONS WHERE THE PLANS CALL FOR FAST TRACK CONCRETE PAVEMENT IN LIEU OF JRCP (LAID ON COMPACTED OR STABILIZED SUBGRADE), USE DETAILS IN THIS STANDARD IN CONJUNCTION WITH THE APPROPRIATE FAST TRACK CONCRETE SPECIFICATION. IF THE JRCP IS LAID UPON A BASE STRUCTURE, ADD 3" TO THE FAST TRACK PAVEMENT THICKNESS TO COMPENSATE FOR THE BASE.

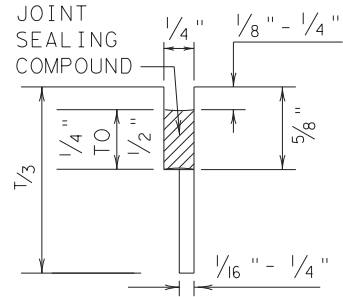
JRCP SHEET 2 OF 2

FILE: STDB-2.dgn	DN:	CK:	DW:	CK:
 TxDOT MAR.2004	DIST	FED REG	PROJECT NO.	SHEET
REVISIONS 5/05 2004 SPECS 7/2010 ADDED NOTE 9/2013 ADDED NOTE 8/2015 MODIFIED NOTES	HOU	6		
	COUNTY	CONTROL	SECT	JOB
				HIGHWAY

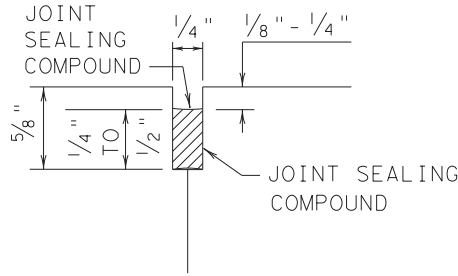
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DATE:  
FILE:

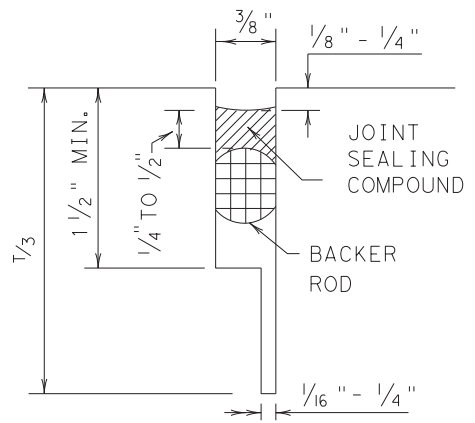
METHOD B: JOINT SEALING COMPOUND



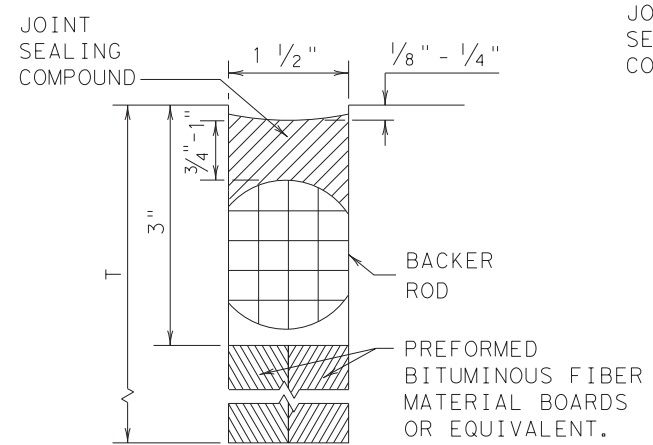
LONGITUDINAL SAWED  
CONTRACTION JOINT



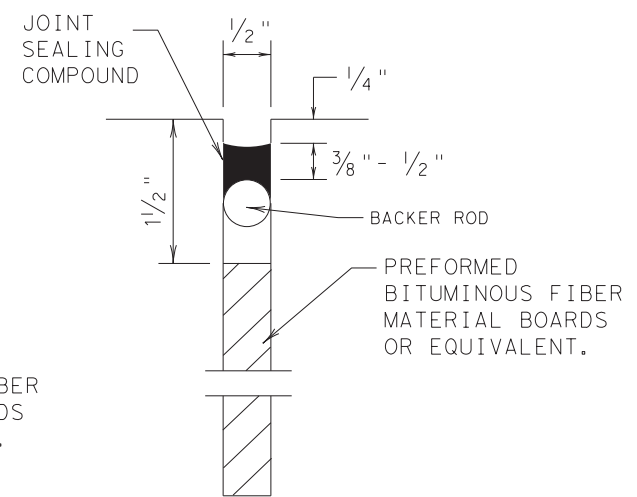
LONGITUDINAL OR TRANSVERSE  
CONSTRUCTION JOINT



TRANSVERSE SAWED  
CONTRACTION JOINT

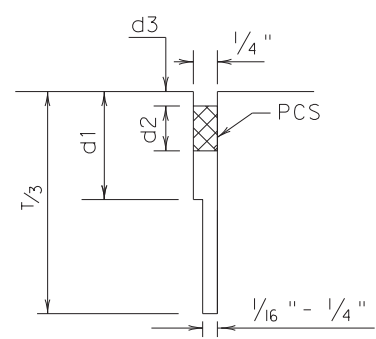


TRANSVERSE FORMED  
EXPANSION JOINT

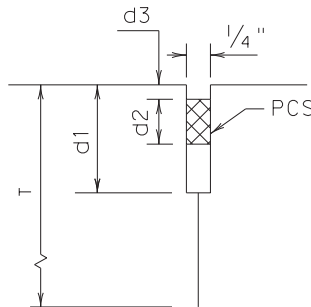


FORMED  
ISOLATION JOINT

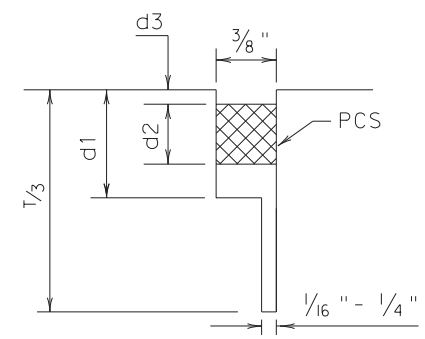
METHOD A: PREFORMED COMPRESSION SEALS  
(PCS) (DMS-6310 CLASS 6)



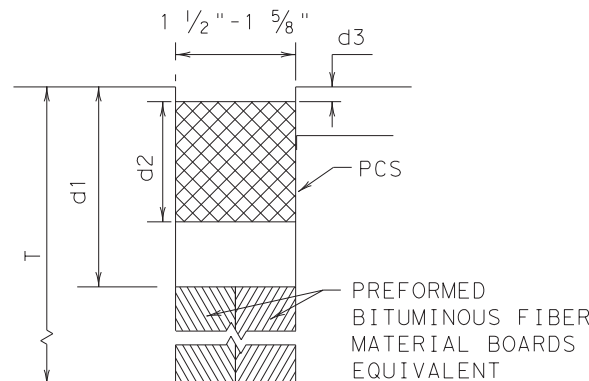
LONGITUDINAL SAWED  
CONTRACTION JOINT



LONGITUDINAL  
CONSTRUCTION JOINT




TRANSVERSE SAWED  
CONTRACTION JOINT



TRANSVERSE FORMED  
EXPANSION JOINT

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN IN THE PLANS, EITHER METHOD "A" OR METHOD "B" MAY BE USED.
2. THE LOCATION OF JOINTS SHALL BE AS SHOWN ELSEWHERE IN THE PLANS.
3. THE JOINT RESERVOIR FOR SEALANT OR PCS SHALL BE SAWED UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION JOINTS AND THE SAWED JOINTS.
4. DIMENSIONS d1, d2, AND d3 SHOWN IN METHOD A SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURER'S RECOMMENDATION.
5. REFER TO DMS-6310 "JOINT SEALANTS AND FILLERS" FOR THE CLASSIFICATIONS.
6. FOR SAWED LONGITUDINAL JOINT, LONGITUDINAL OR TRANSVERSE CONSTRUCTION JOINT, USE JOINT SEALANT CLASS 5 OR 8 UNLESS OTHERWISE SHOWN ON THE PLAN OR APPROVED.
7. FOR TRANSVERSE SAWED CONTRACTION, TRANSVERSE FORMED EXPANSION JOINT, AND ISOLATION JOINT USE JOINT SEALANT CLASS 5 OR 8 AT NEW JOINTS. USE JOINT SEALANT CLASS 4,5,7,OR 8 FOR MAINTAINING EXISTING JOINTS.
8. THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE ITEM 438 "CLEANING AND SEALING JOINTS" OR ITEM 713 "CLEANING AND SEALING JOINTS AND CRACKS (CONCRETE PAVEMENT)".
9. ISOLATION JOINTS ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENTS THAT OCCUR BETWEEN A PAVEMENT AND A STRUCTURE. ISOLATION JOINTS MAY BE USED FOR BRIDGE ABUTMENTS, INTERSECTIONS, CURB AND GUTTER, OLD AND NEW PAVEMENTS, OR AROUND DRAINAGE INLETS, MANHOLES, FOOTINGS AND LIGHTING STRUCTURES.



Texas Department of Transportation

Design  
Division  
Standard

CONCRETE PAVING DETAILS

JOINT SEALS

JS-14

FILE: js14.dgn	DN: TxDOT	DN: HC	DN: HC	CK: AN
© TxDOT: DECEMBER 2014	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY	SHEET NO.	



GENERAL NOTES

THE STRUCTURE UNDER THIS CONTRACT HAS BEEN DESIGNED AND DETAILED FOR THE LOADS AND CONDITIONS STIPULATED IN THE CONTRACT AND SHOWN ON THESE DRAWINGS. ANY ALTERATIONS TO THE STRUCTURAL SYSTEM, REMOVAL OF ANY COMPONENT PARTS, OR THE ADDITION OF OTHER CONSTRUCTION MATERIALS OR LOADS MUST BE DONE UNDER THE ADVICE AND DIRECTION OF A REGISTERED ARCHITECT, CIVIL OR STRUCTURAL ENGINEER. THE BUILDING MANUFACTURER WILL ASSUME NO RESPONSIBILITY FOR ANY LOADS NOT INDICATED.

THIS METAL BUILDING IS DESIGNED WITH THE BUILDING MANUFACTURER'S STANDARD PRACTICES WHICH ARE BASED ON PERTINENT PROCEDURES AND RECOMMENDATIONS OF THE FOLLOWING ORGANIZATIONS AND CODES AS APPLICABLE

1. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS
2. AMERICAN IRON AND STEEL INSTITUTE, SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
3. AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE AWS D1.1
4. METAL BUILDING MANUFACTURER'S ASSOCIATION, LOW RISE BUILDING SYSTEMS MANUAL
5. INTERNATIONAL CODE COUNCIL: INTERNATIONAL BUILDING CODE

ALL WELDING ELECTRODES SHALL BE A233 CLASS E-70 SERIES. MINIMUM WELDS ON PRIMARY STRUCTURAL MEMBERS SHALL BE 3/16 FILLET WELDS UNLESS SHOWN OTHERWISE ON SHOP FABRICATION DRAWINGS.

ALL STRUCTURAL STEEL SHALL BE SHOP FABRICATED UNLESS NOTED.

MATERIAL PROPERTIES OF STEEL PLATE AND SHEET USED IN THE FABRICATION OF PRIMARY RIGID FRAMES AND ALL PRIMARY STRUCTURAL FRAMING MEMBERS (OTHER THAN COLD-FORMED SECTIONS) CONFORM TO THE CHEMISTRY REQUIREMENTS OF ASTM-A36 WITH MINIMUM YIELD POINT OF 50,000 P.S.I. OR 36,000 P.S.I. AS REQUIRED BY DESIGN.

MATERIAL PROPERTIES OF COLD FORMED LIGHT GAGE STEEL MEMBERS CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-570, GRADE 55. WITH A MINIMUM YIELD POINT OF 57,000 P.S.I.

ALL PIPE SHALL BE MINIMUM SCHEDULE 40 AND 36,000 P.S.I. UNLESS OTHERWISE NOTED.

CABLE BRACING TO BE "BRACE GRIP" SYSTEM AS MANUFACTURED BY FLORIDA WIRE AND CABLE COMPANY. EHS CABLE OR EQUAL. BRACING IN FLUSH GIRT SIDEWALL / ENDWALL BAYS MAY REQUIRE THE FIELD CUTTING OF SLOTS SO THAT CABLE IS INSTALLED WITHIN GIRTS.

STRUCTURAL JOINTS WITH A.S.T.M. A-325 HIGH STRENGTH BOLTS, WHERE INDICATED ON THE DRAWINGS, SHALL BE ASSEMBLED AND THE FASTENERS TIGHTENED IN ACCORDANCE WITH "SNUG-TIGHT" METHOD AS DESCRIBED IN THE SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. A-325 OR A-490 BOLTS (JUNE 30, 2004 EDITION), UNLESS OTHERWISE NOTED. ALL JOINTS WILL BE ASSEMBLED WITHOUT WASHERS UNLESS OTHERWISE NOTED.

ALL STEEL MEMBERS EXCEPT BOLTS AND FASTENERS SHALL RECEIVE ONE SHOP COAT OF IRON OXIDE CORROSION INHIBITIVE PRIMER.

SHOP AND FIELD INSPECTIONS AND ASSOCIATED FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UNLESS OTHERWISE NOTED, ALL SCREWED-DOWN ROOF AND WALL PANELS ARE TO BE INSTALLED USING A MINIMUM OF ONE SCREW PER FOOT AT EACH PURLIN / GIRT AND ONE STITCH SCREW EVERY 24 INCH ALONG THE PANEL LAPS AND ENDS AS DESCRIBED IN THE INSTALLATION MANUAL. SINCE BEARING FRAME ENDWALLS DEPEND ON DIAPHRAGM STRENGTH TO PROVIDE LATERAL SUPPORT, THE NUMBER AND SIZE OF FIELD INSTALLED OPENINGS IN THESE WALLS MAY BE LIMITED. SEE THE APPLICABLE WALL DRAWING OR CONTACT YOUR SALES REPRESENTATIVE FOR MORE INFORMATION.

BUILDING DESCRIPTION

BLDG	WIDTH		LENGTH		HEIGHT		ROOF PITCH	
					BACK	FRONT	BACK	FRONT
1	50'-0"	X	250'-0"	X	16'-8"	16'-8"	1.00:12	1.00:12

INSTALLATION NOTE

For videos and manuals to help you with the erection of your building, visit our website: [www.muellerinc.com](http://www.muellerinc.com)

Go to the "Downloads" tab near the top of the page and click on "Videos" or "Manuals". These will help you with topics from site planning and safety through erection and installation of accessories.

WARRANTY NOTE

ENGINEERING CALCULATIONS AND DESIGN ARE BASED ON PRE-FABRICATED METAL BUILDING(S) AS SHOWN IN THESE DRAWINGS AND SUPPLIED BY MUELLER, INC. AND ANY FIELD FABRICATION AND/OR MODIFICATION OF SAID BUILDING(S) IS THE SOLE RESPONSIBILITY OF THE CUSTOMER AND MAY VOID ALL ENGINEERING AND WARRANTY.

PRODUCT CERTIFICATIONS

THIS IS TO CERTIFY THE ABOVE REFERENCED BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH A.I.S.C. AND A.I.S.I. DESIGN PROCEDURES AND GOOD ENGINEERING PRACTICE AND FOR THE FOLLOWING LOADS. ALL WELDING IS PER THE A.W.S. D1.1 & D1.3 CODES. LOADS ARE APPLIED IN ACCORDANCE WITH THE M.B.M.A. LOW RISE BUILDING SYSTEMS MANUAL. AND THE DESIGN SATISFIES THE REQUIREMENTS OF IBC'15

DEAD LOAD: METAL BLDG STRUCTURE ONLY AS FURNISHED BY MUELLER, INC.

LIVE LOAD (ROOF): 20.0 (psf)

GROUND SNOW LOAD:  $P_g = 0.0$  (psf)

LIVE LOAD REDUCED PER CODE? YES

ROOF SNOW LOAD (Flat):  $P_f = 0.0$  (psf)

WIND EXPOSURE: C

$C_e = 1.0$   $I_s = 1.0$

RISK CATEGORY: II - Normal

WIND LOAD:  $V_{ULT} = 138.0$  MPH

$V_{ASD} = 106.9$  MPH

SEISMIC LOADS

$I_e = 1.0$

SEISMIC DESIGN CATEGORY: B

$S_s = 0.082$   $S_{DS} = 0.088$

SITE CLASS: D

$S_1 = 0.044$   $S_{D1} = 0.070$

ANALYSIS PROCEDURE: Equivalent Lateral Force Method

BUILDING-SPECIFIC LOADING INFORMATION

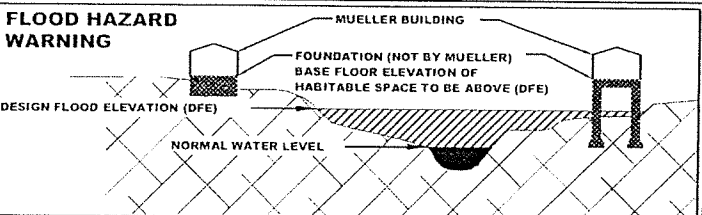
BLDG	Collateral Load (psf)	SNOW		Roof (Sloped)		WIND		SEISMIC	
		$C_t$	$C_s$	$P_s$ (psf)	Enclosure	$GCr_1$	R	$C_s$	V (kips)
1	0.0	1.0	1.0	0.00	Enclosed	$\pm 0.18$	3.25	0.027	1.85

THIS LETTER OF CERTIFICATION APPLIES SOLELY TO THIS BUILDING AND ITS COMPONENT PARTS AS FURNISHED AND/OR FABRICATED BY MUELLER, INC. AND SPECIFICALLY EXCLUDES FOUNDATION, MASONRY OR GENERAL CONTRACT WORK INCLUDING ERECTION CERTIFICATION. THE DESIGN AND CERTIFICATION FOR THIS PROJECT IS IN ACCORDANCE WITH THE PROVISIONS AND LOADS SPECIFIED ON THE CONTRACT DOCUMENTS. THE CUSTOMER IS TO INSURE ALL LOADS ARE IN COMPLIANCE WITH LOCAL REGULATORY AUTHORITIES. ALL COMPONENTS AND PARTS MUST WITHSTAND THE WIND LOAD AND DESIGN SPECIFICATIONS MENTIONED ABOVE.

PANEL ACCESSORY INFORMATION

	PANEL TYPE	PANEL COLOR	TRIM COLOR
WALL SHEETS	126_R	TAN Tan	BRN Cocoa Brown
ROOF SHEETS	126_PBR	GP Galvalume Plus	BRN Cocoa Brown

WARNING: IN NO CASE SHOULD GALVALUME STEEL PANELS BE USED IN CONJUNCTION WITH LEAD OR COPPER. BOTH LEAD AND COPPER HAVE HARMFUL CORROSION EFFECTS ON THE ALUMINUM ZINC ALLOY COATING WHEN THEY ARE USED IN CONTACT WITH GALVALUME STEEL PANELS. EVEN RUN-OFF FROM COPPER FLASHING, WIRING, OR TUBING ONTO GALVALUME SHOULD BE AVOIDED.



Our review of the jobsite location has determined that the property may be in a flood zone. It is recommended that a Licensed Professional Surveyor be contracted to determine the required foundation height to ensure this project job site meets all building code requirements regarding the Design Flood Elevation (DFE). This building HAS NOT been designed to withstand flood loads and thus, this building may not be erected in a flood zone below the Design Flood Elevation (DFE).

Doing so voids all Mueller, Inc. engineering and warranty.

These instructions should always be transferred with building at change of ownership.

WARNING!

Failure to comply with above instructions will void engineering for the structure and could result in property damage, personal injury and/or death.

Erosion and scour and other jobsite specific design considerations are not part of the design by Mueller, Inc. and should be addressed by the Design Professional in Responsible Charge of this project and/or the Professional of Record for this project's foundation design. Design of building foundation and areas below DFE are not by Mueller, Inc. and must comply with FEMA Technical Bulletins 1-11 or Mueller, Inc. engineering is voided

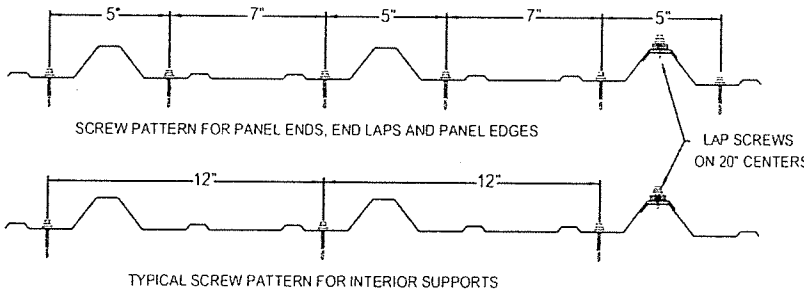
NOTE: THE UNDERSIGNED ENGINEER IS NOT THE "REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE" NOR "ENGINEER OF RECORD" FOR THE OVERALL PROJECT.

Legend

PART MARK = Part001

FASTENER SPACING: HIGH WIND SCREW PLACEMENT

A line of fasteners in a 5"-7"-5"-7"-5" pattern shall be used at all panel ends, end laps, and panel edges when attached to the rake, base, roof or wall purlin and eave struts. Panel side laps should have lap screws spaced at 20" on center along the entire length of the panel lap



NOTE: THIS BUILDING IS DESIGNED AS AN ENCLOSED STRUCTURE. ANY ACCESSORIES USED WITH THIS BUILDING (DOORS, WINDOWS, VENTS, ETC.) MUST BE RATED TO MEET THE SAME WIND CRITERIA AS THIS BUILDING.

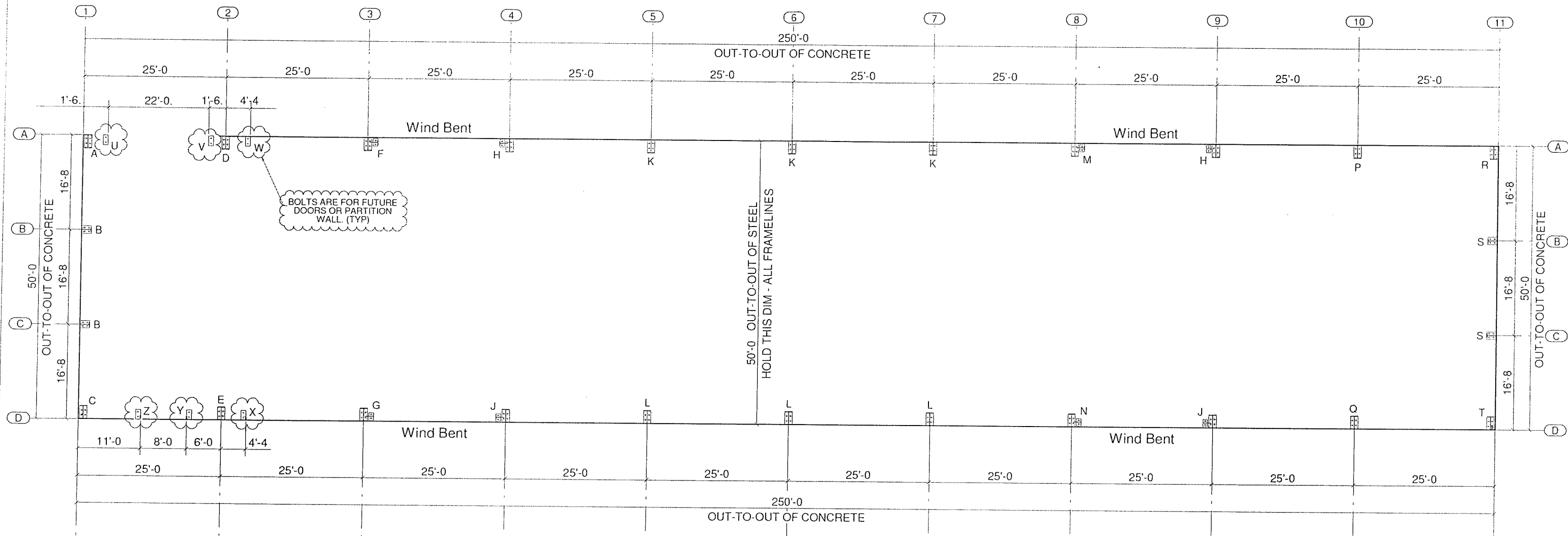
DRAWING INDEX

PAGE	DESCRIPTION
C1	COVERSHEET
AB1	ANCHOR BOLT PLAN
AB2	ANCHOR BOLT DETAILS
AB3	ANCHOR BOLT DETAILS
AB4	ANCHOR BOLT DETAILS
AB5	REACTIONS
E1	ROOF PLAN
E2	WALL ELEVATION AT GRID D
E3	WALL ELEVATION AT GRID A
E4	WALL ELEVATION AT GRID 1
E5	WALL ELEVATION AT GRID 11
E6	FRAME ELEVATION ON GRID 1
E7	FRAME ELEVATION ON GRID 2
E8	FRAME ELEVATION ON GRIDS 3, 8
E9	FRAME ELEVATION ON GRIDS 4, 9
E10	FRAME ELEVATION ON GRIDS 5, 6, 7, 10
E11	FRAME ELEVATION ON GRID 11
E101	ERECTION DETAILS
E102	ERECTION DETAILS
S101	SHEETING DETAILS

FOR CONSTRUCTION



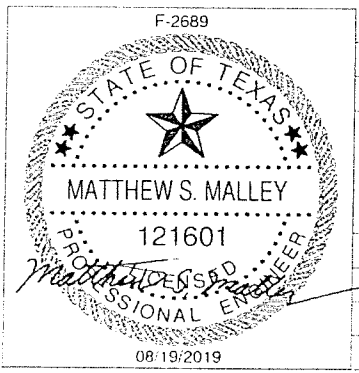
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REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: COVERSHEET		
SALESMAN: Jacob Kenna		BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"
CUSTOMER NAME: Jefferson County Drainage Dist		ADDRESS: Beaumont, TX 77707
DETAILER: GJH	CHECKER:	DATE: 08/19/2019
JOB #	5663293	DWG #
REV	0	C1



**ANCHOR BOLT PLAN**  
 NOTE: Base Plates @ 100'-0" (U.N.)

ANCHOR BOLT SUMMARY		
QTY	LOCATION	DIA
16	WIND COLUMN	3/4"
12	JAMB	5/8"
16	ENDWALL	5/8"
88	MAINFRAME	3/4"

For Visual Purposes, Base Plate Views  
 may be Exaggerated Beyond Dwg Scale

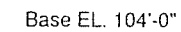


0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: ANCHOR BOLT PLAN		BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8" ADDRESS: Beaumont, TX 77707
SALESMAN: Jacob Kenna CUSTOMER NAME: Jefferson County Drainage Dist.	DATE: 08/19/2019	ROOF SLOPE: 1:00:12 SCALE: 1:90 JOB #: 5663293 DWG #: AB1 REV: 0

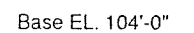
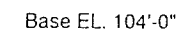




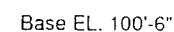
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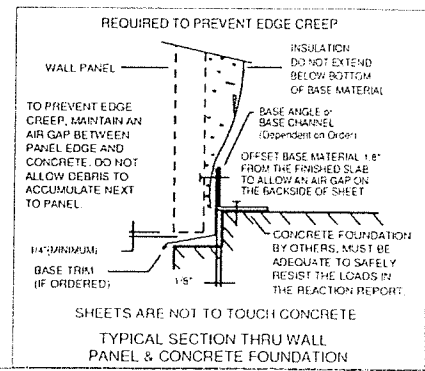
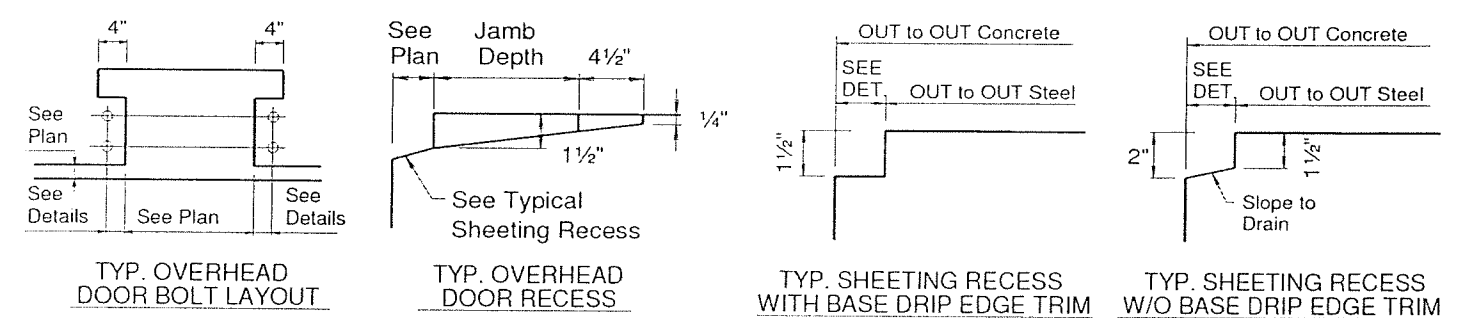
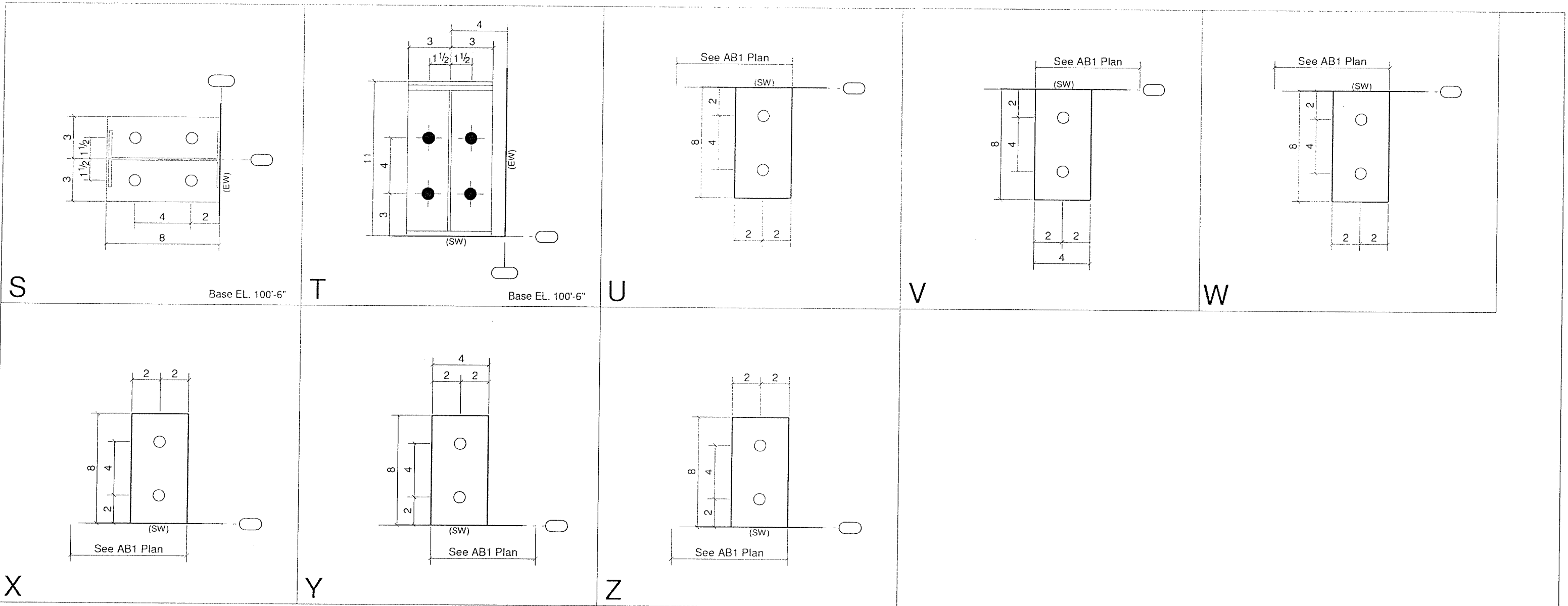


TYP. SHEETING RECESS  
W/O BASE DRIP EDGE TRIM

## GENERAL NOTES

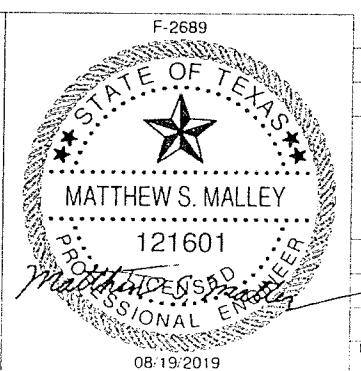
- F-2689
- 
- MATTHEW S. MALLEY  
121601
- 08/19/2019

0	08/19/2019	For Construction	
REV	DATE	DESCRIPTION	
MUELLER, INC.			
STEEL BUILDING SYSTEMS & COMPONENTS			
1913 Hutchins Ave. Ballinger, TX 76821			
(800) 527-1087			
DRAWING DESCRIPTION:			
ANCHOR BOLT DETAILS			
SALESMAN		BUILDING DESCRIPTION:	
Jacob Kenna		50'-0" X 250'-0" X 16'-8"	
CUSTOMER NAME		ADDRESS:	
Jefferson County Drainage D***		Beaumont, TX 77707	
DETAILS	CHECKER:	JOB #	ROOF SLOPE
GJH	08/19/2019	5663293	1.00:12
		DWG #	SCALE
		AB3	NONE
		REV.	0



**GENERAL NOTES**

- Foundation design and construction are not the responsibility of MUELLER, INC.
- The building reaction data reports the loads which this building places on the foundation.
- Anchor Bolts shall be accurately set to a tolerance of  $\pm 1/8"$  in both elevation and location.
- Column base plates are designed not to exceed a bearing pressure of 1125 pounds per square inch.
- Anchor Bolt sizes are based on the concrete design strength being a minimum of 3000 psi. Anchorage of the anchor bolts and adequacy of any foundation anchorage (including anchor bolts, drive pins, or any other foundation anchorage provided by MUELLER, INC.) is solely the responsibility of the foundation designer and / or customer.

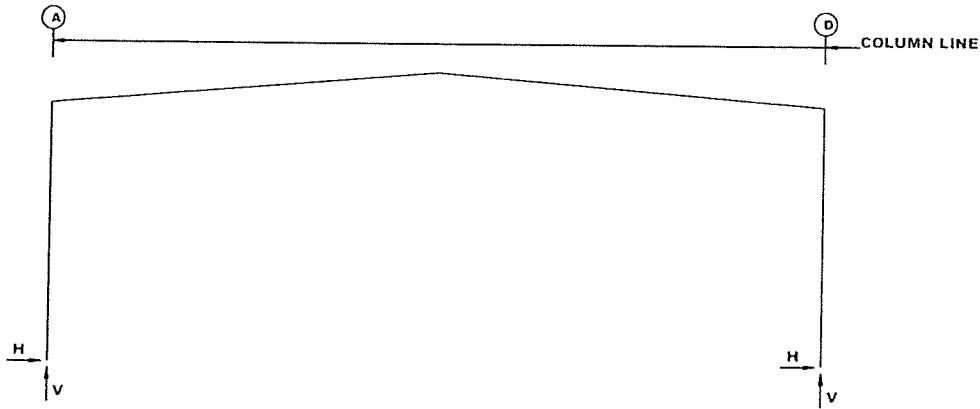


0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
<b>DRAWING DESCRIPTION:</b> ANCHOR BOLT DETAILS		
SALESMAN Jacob Kenna	BUILDING DESCRIPTION 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE 1:00:12
CUSTOMER NAME Jefferson County Drainage D***	ADDRESS Beaumont, TX 77707	SCALE NONE
DETAILER GJH	CHECKER GJH	DATE 08/19/2019
JOB # 5663293	DWG # AB4	REV 0

○ DIA = 5/8"

● DIA = 3/4"

FRAME LINES: 1 2 3 4 5 6 7 8 9 10 11



**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty Dia		Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
1	A	1	2.1	5.9	2	-3.9	-7.2	4	0.750	6.000	11.00	0.500	6.0
1	D	3	3.9	-7.2	1	-2.1	5.9	4	0.750	6.000	11.00	0.500	6.0
		1	-2.1	5.9	3	3.9	-7.2						

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty Dia		Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
2	A	1	4.5	10.9	2	-6.2	-11.6	4	0.750	6.000	11.00	0.500	6.0
2	D	3	6.2	-11.6	1	-4.5	10.9	4	0.750	6.000	11.00	0.500	6.0
		1	-4.5	10.9	3	6.2	-11.6						

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty Dia		Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
3*	A	1	6.1	10.8	2	-7.0	-11.3	4	0.750	6.000	11.00	0.500	48.0
3*	D	3	7.0	-11.3	1	-6.1	10.8	4	0.750	6.000	11.00	0.500	48.0
		1	-6.1	10.8	3	7.0	-11.3						
3*	Frame lines: 3 4 8 9												

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k)						Anc. Bolt Qty Dia		Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
5*	A	1	6.2	10.8	2	-7.1	-11.3	4	0.750	6.000	11.00	0.500	48.0
5*	D	3	7.1	-11.3	1	-6.2	10.8	4	0.750	6.000	11.00	0.500	48.0
		1	-6.2	10.8	3	7.1	-11.3						
5*	Frame lines: 5 6 7 10												

**LOAD COMBINATIONS**

ID Description

- 1 Dead+Collateral+Live
- 2 0.6Dead+0.6Wind\_Left1
- 3 0.6Dead+0.6Wind\_Right1
- 4 0.6Dead+0.6Wind\_Right2+0.6Wind\_Suction
- 5 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2
- 6 Dead+0.6Wind\_Right2+0.6Wind\_Suction

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k)						Anc. Qty	Bolt Dia	Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
11	A	1	2.1	5.9	2	-3.9	-7.2	4	0.750	6.000	11.00	0.500	6.0
11	D	3	3.9	-7.2	1	-2.1	5.9	4	0.750	6.000	11.00	0.500	6.0
		1	-2.1	5.9	3	3.9	-7.2						

**RIGID FRAME: BASIC COLUMN REACTIONS (k)**

Frame Line	Column Line	---Dead---		---Live---		-Wind_Left1-		-Wind_Right1-		-Wind_Left2-		-Wind_Right2-	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1	A	0.5	1.6	1.6	4.3	-7.0	-13.5	-0.8	-9.0	-6.5	-9.4	-0.2	-4.9
1	D	-0.5	1.6	-1.6	4.3	0.8	-9.0	7.0	-13.5	0.2	-4.9	6.5	-9.4
2	A	0.9	2.4	3.5	8.5	-11.3	-21.7	-1.8	-15.1	-9.9	-13.6	-0.5	-7.0
2	D	-0.9	2.4	-3.5	8.5	1.8	-15.1	11.3	-21.7	0.5	-7.0	9.9	-13.6
3*	A	1.3	2.3	4.8	8.5	-13.0	-21.1	-5.8	-15.7	-9.7	-13.0	-2.5	-7.6
3*	D	-1.3	2.3	-4.8	8.5	5.8	-15.7	13.0	-21.1	2.5	-7.6	9.7	-13.0
5*	A	1.3	2.3	4.9	8.5	-13.2	-21.1	-5.9	-15.7	-9.8	-13.0	-2.6	-7.6
5*	D	-1.3	2.3	-4.9	8.5	5.9	-15.7	13.2	-21.1	2.6	-7.6	9.8	-13.0
11	A	0.5	1.6	1.6	4.3	-7.0	-13.5	-0.8	-9.0	-6.5	-9.4	-0.2	-4.9
11	D	-0.5	1.6	-1.6	4.3	0.8	-9.0	7.0	-13.5	0.2	-4.9	6.5	-9.4
3*	Frame lines: 3 4 8 9												
5*	Frame lines: 5 6 7 10												

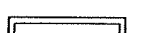
**ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)**

Frm Line	Col Line	Dead Vert	Wind Press Horiz		Wind Suct Horiz	
			Horz	Vert	Horz	Vert
1	B	0.2	-4.2	4.5		
1	C	0.2	-4.2	4.5		
11	C	0.2	-4.2	4.5		
11	B	0.2	-4.2	4.5		

**ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

Frm Line	Col Line	Column Reactions (k )						Anc. Qty	Bolt Dia	Base Plate (in)			Grout (in)
		Load ID	Hmax H	V Vmax	Load ID	Hmin H	V Vmin			Width	Length	Thick	
1	B	4	2.7	0.1	5	-2.5	0.1	4	0.625	6.000	8.000	0.500	6.0
		6	2.7	0.2									
1	C	4	2.7	0.1	5	-2.5	0.1	4	0.625	6.000	8.000	0.500	6.0
		6	2.7	0.2									
11	C	4	2.7	0.1	5	-2.5	0.1	4	0.625	6.000	8.000	0.500	6.0
		6	2.7	0.2									
11	B	4	2.7	0.1	5	-2.5	0.1	4	0.625	6.000	8.000	0.500	6.0
		6	2.7	0.2									

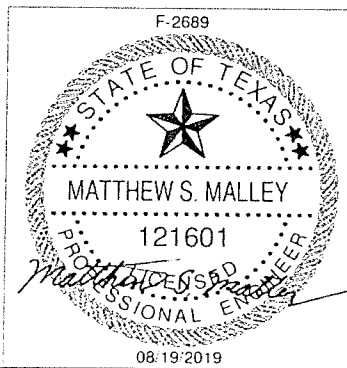
**WIND BENT REACTIONS**

		— Wall —		Col Line	↑ Reactions				Anc. Qty	Bolt Dia	Base_Plate(in)		Thick
		Loc	Line		Wind(k) Horz	Seismic(k) Vert	Horz	Vert			Width	Length	
F_SW	D	3	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
F_SW	D	4	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
F_SW	D	8	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
F_SW	D	9	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
B_SW	A	9	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
B_SW	A	8	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
B_SW	A	4	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		
B_SW	A	3	1.5	1.8	0.2	0.3	2	0.750	6,000	8,000	0.500		

**BUILDING BRACING REACTIONS**

Wall Loc	Col Line	Reactions (k)				Panel Shear (lb/ft)		Note
		Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Wind	Seis	
L_EW	1							(h)
F_SW	D	3,4						(a)
		8,9						(a)
R_EW	11							(h)
B_SW	A	8,9						(a)
		3,4						(a)

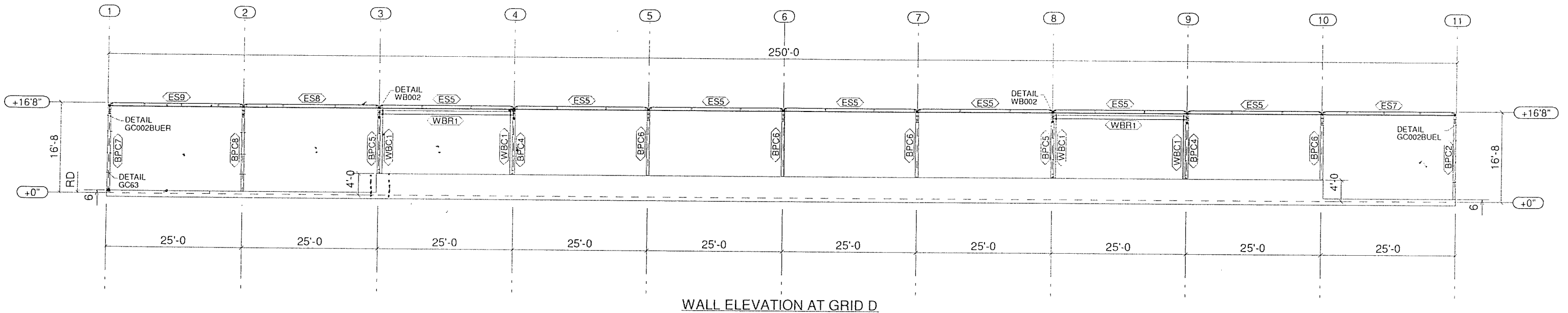
(a) Wind bent in bay  
(h) Rigid frame at endwall



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1007		
DRAWING DESCRIPTION: REACTIONS		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1:00:12
CUSTOMER NAME: Jefferson County Drainage Dist.	ADDRESS: Beaumont, TX 77707	SCALE: NONE
DETAILER: GJH	CHECKER: GJH	DATE: 08/19/2019
JOB #	5663293	DWG # AB5
REV	0	





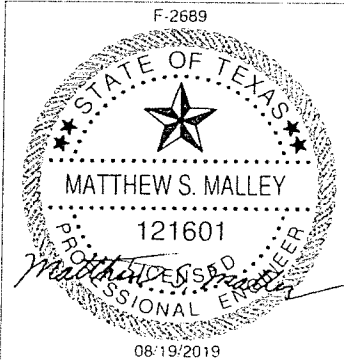


WALL ELEVATION AT GRID D.

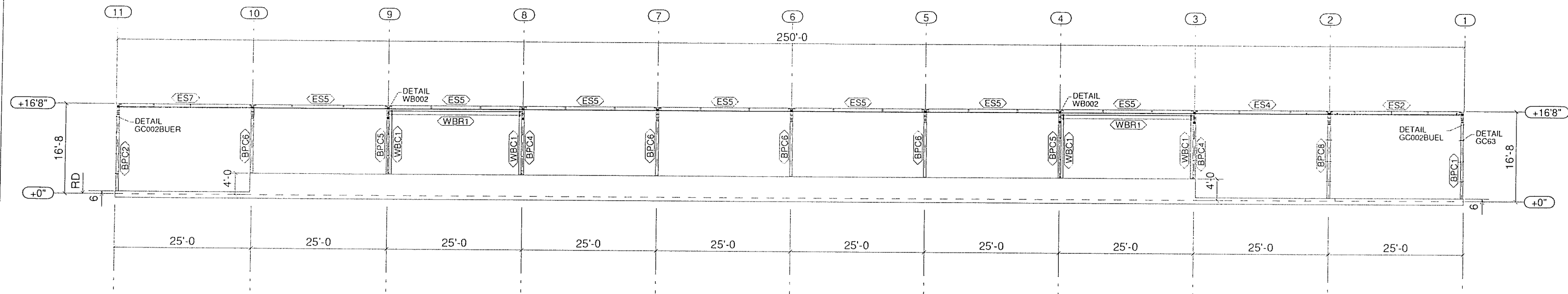
GIRTS AND SHEETING WILL BE ADDED IN THE FUTURE.

Bill of Materials				
Qty	Mark	Profile	Finish	Length
4	WBC1	WBX13	HD	
2	WBR1	WBX18	HD	

Wind Bent Connection Plate and Bolt Table		
Connected Assemblies	Bolt Description	
WBC1 -> BPC4	16 - 3/4" x 2 1/2" A325N	
WBC1 -> BPC5	16 - 3/4" x 2 1/2" A325N	
WBC1 -> WBR1	8 - 3/4" x 2 1/2" A325N	



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: WALL ELEVATION AT GRID D		
SALESMAN Jacob Kenna	BUILDING DESCRIPTION 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE 1:00:12
CUSTOMER NAME Jefferson County Drainage Dist.	ADDRESS Beaumont, TX 77707	SCALE 1:95
DETAILER GJH	CHECKER GJH	DATE 08/19/2019
JOB # 5663293	DWG # E2	REV 0

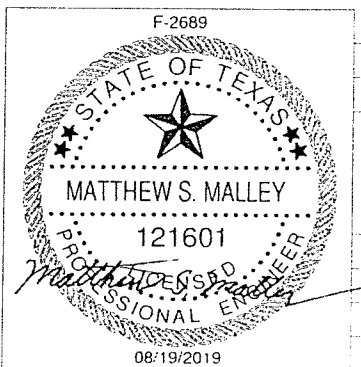


WALL ELEVATION AT GRID A

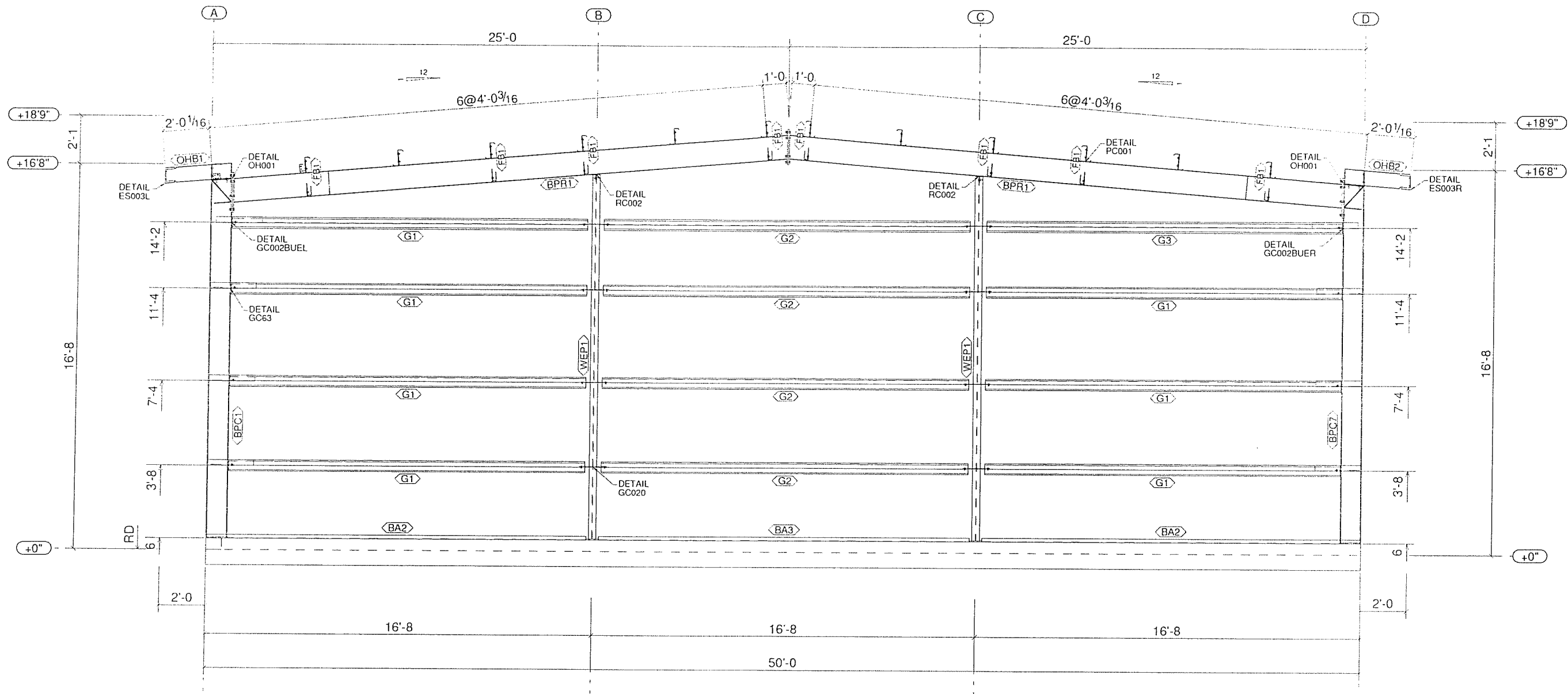
GIRTS AND SHEETING WILL BE ADDED IN THE FUTURE.

Bill of Materials				
Qty	Mark	Profile	Finish	Length
4	WBC1	W8X13	HD	
2	WBR1	W8X18	HD	

Wind Bent Connection Plate and Bolt Table		
Connected Assemblies	Bolt Description	
WBC1 -> BPC4	16 - 3/4" x 2 1/2" A325N	
WBC1 -> BPC5	16 - 3/4" x 2 1/2" A325N	
WBC1 -> WBR1	8 - 3/4" x 2 1/2" A325N	



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: WALL ELEVATION AT GRID A		
SALESMAN Jacob Kenna	BUILDING DESCRIPTION 50'-0" X 250'-0" X 16'-8"	
CUSTOMER NAME Jefferson County Drainage Dist.	ADDRESS Beaumont, TX 77707	
DATE 08/19/2019	CHECKER GJH	DATE 08/19/2019
JOB # 5663293	DWG # E3	REV 0

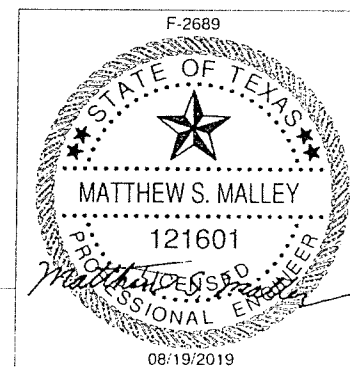


WALL ELEVATION AT GRID 1  
 \*\* THIS ENDWALL FRAME IS NOT EXPANDABLE \*\*

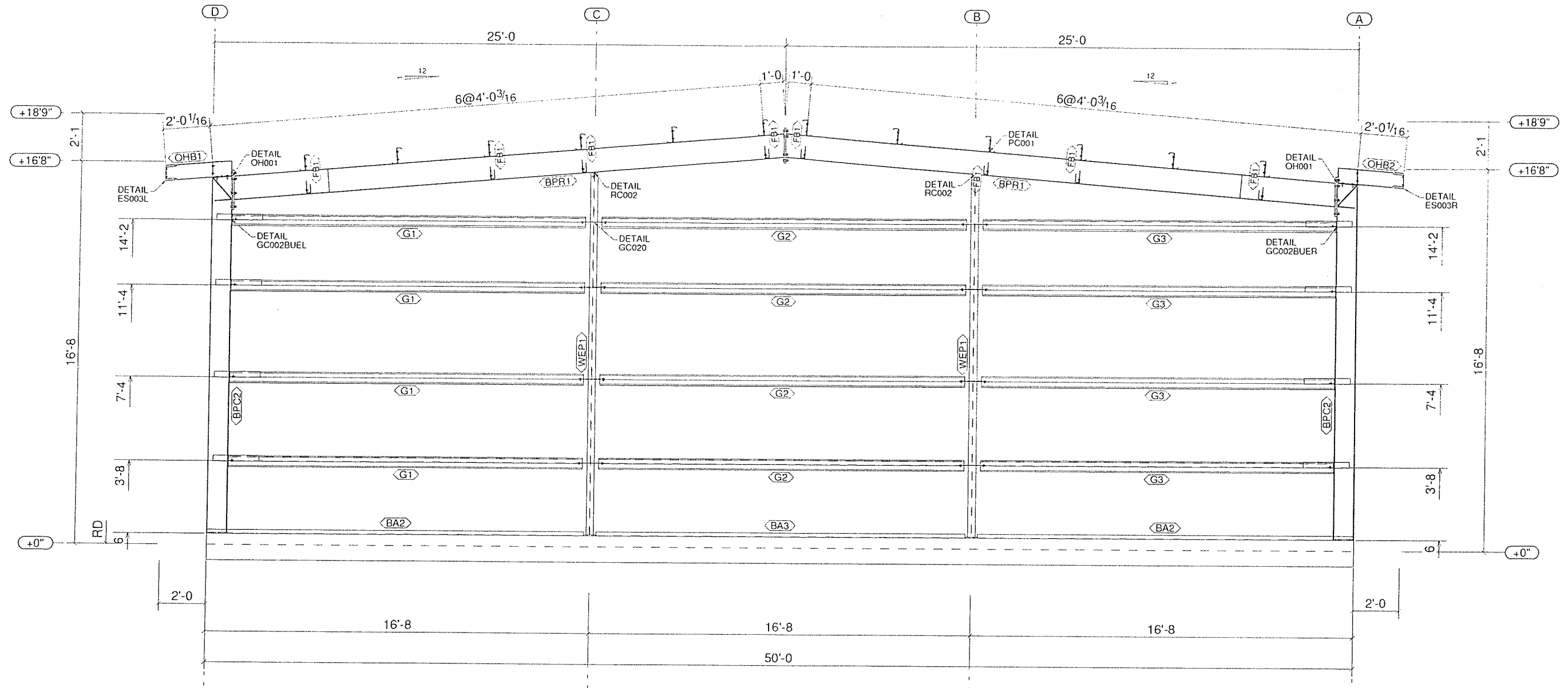
Bill of Materials				
Qty	Mark	Profile	Finish	Length
1	BPC1	PL3/16"x10"	HD	
1	BPC7	PL3/16"x10"	HD	
2	BPR1	SHT10GAX12"	HD	
1	OHB1	W8X10	HD	
1	OHB2	W8X10	HD	
2	WEP1	W8X10	HD	
2	BA2	L4X2X14GA	GZ	16'-4 1/2"
1	BA3	L4X2X14GA	GZ	16'-1 1/2"
8	FB1	2X2L12	GZ	2'-7 11/16"
7	G1	8X25Z14	GZ	15'-4 11/16"
4	G2	8X25Z14	GZ	15'-11 5/16"
1	G3	8X25Z14	GZ	15'-4 11/16"

Component Bolt Table			
Detail ID	Bolted Parts	Bolt Description	
OH001	↓ ↓	4 - 5/8" x 2"	A325N
	OHB1 → BPC1	4 - 5/8" x 2"	A325N
	OHB2 → BPC7	4 - 5/8" x 2"	A325N
RC002	↓ ↓	2 - 5/8" x 2"	A325N
	BPR1 → WEP1	2 - 5/8" x 2"	A325N

ALL ENDWALL COLUMNS AND JAMBS ARE DESIGNED AS "POSTS" AS DEFINED BY OSHA AND ARE NOT INTENDED TO BE CLIMBED ON UNTIL FULLY BRACED



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: WALL ELEVATION AT GRID 1		BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8" ADDRESS: Beaumont, TX 77707
SALESMAN: Jacob Kenna	CHECKER: GJH	DATE: 08/19/2019
CUSTOMER NAME: Jefferson County Drainage D***	JOB #: 5663293	SCALE: 1:25
	DWG #: E4	REV: 0

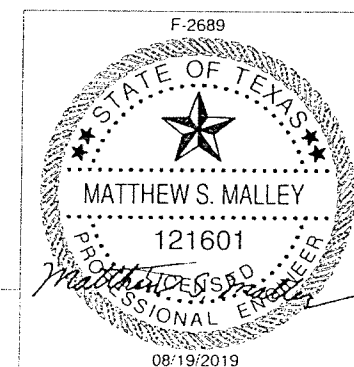


WALL ELEVATION AT GRID 11  
 \*\* THIS ENDWALL FRAME IS NOT EXPANDABLE \*\*

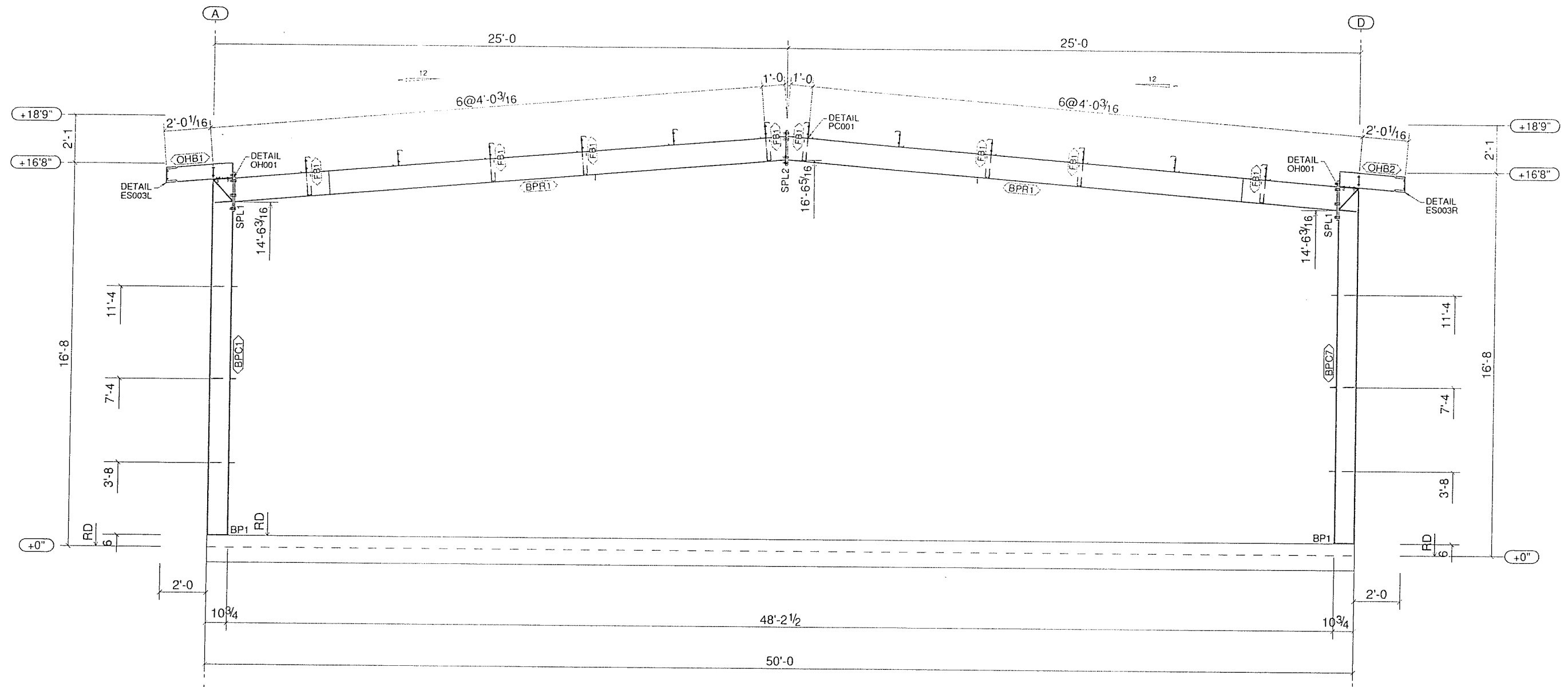
Bill of Materials				
Qty	Mark	Profile	Finish	Length
2	BPC2	PL3-16"X10"	HD	
2	BPR1	SHT10GAX12"	HD	
1	OHB1	W8X10	HD	
1	OHB2	W8X10	HD	
2	WEP1	W8X10	HD	
2	BA2	L4X2X14GA	GZ	16'-4 1/2"
1	BA3	L4X2X14GA	GZ	16'-1 1/2"
8	FB1	2X2L12	GZ	2'-7 11/16"
4	G1	8X25Z14	GZ	15'-4 11/16"
4	G2	8X25Z14	GZ	15'-11 5/16"
4	G3	8X25Z14	GZ	15'-4 11/16"

Component Bolt Table			
Detail ID	Bolted Parts	Bolt Description	
OH001	OHB1 → BPC2	4 - 5/8" x 2"	A325N
	OHB2 → BPC2	4 - 5/8" x 2"	A325N
RC002	WEP1 → BPR1	2 - 5/8" x 2"	A325N

ALL ENDWALL COLUMNS AND JAMBS ARE DESIGNED AS "POSTS" AS DEFINED BY OSHA AND ARE NOT INTENDED TO BE CLIMBED ON UNTIL FULLY BRACED.



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 521-1087		
DRAWING DESCRIPTION: WALL ELEVATION AT GRID 11		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1.00:12
CUSTOMER NAME: Jefferson County Drainage D***	ADDRESS: Beaumont, TX 77707	SCALE: 1.25
DETAILER: GJH	CHECKER: GJH	DATE: 08/19/2019
JOB #: 5663293	DWG #: E5	REV: 0



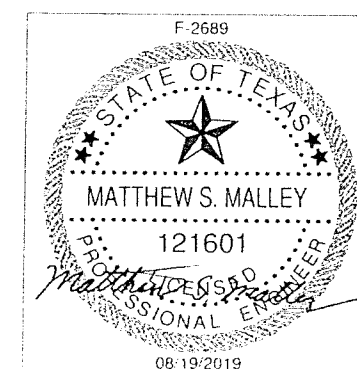
FRAME ELEVATION ON GRID 1  
 \*\* THIS ENDWALL FRAME IS NOT EXPANDABLE \*\*

BUILT UP MEMBER TABLE				
Mark	Type	Thick x Max Width x Length		
BPC1	WB	PL3/16"X10" x 185 15/16"		
	IF	PL3/8"X6" x 168 3/4"		
	OF	PL3/8"X6" x 185 1/8"		
BPC7	WB	PL3/16"X10" x 185 15/16"		
	IF	PL3/8"X6" x 168 3/4"		
	OF	PL3/8"X6" x 185 1/8"		
BPR1	WB	SHT10GAX12" x 240"		
	IF	PL1/4"X6" x 55 7/8"		
	IF	PL1/4"X6" x 233"		
	OF	PL1/4"X6" x 54 7/8"		
	OF	PL1/4"X6" x 234"		
	WB	SHT10GAX12" x 49 7/8"		

Bill of Materials				
Qty	Mark	Profile	Finish	Length
1	BPC1	PL3/16"X10"	HD	
1	BPC7	PL3/16"X10"	HD	
2	BPR1	SHT10GAX12"	HD	
1	OHB1	W8X10	HD	
1	OHB2	W8X10	HD	
8	FB1	2X2L12	GZ	2'-7 11/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
BP1	PL3/8"X4" x 8"	REF. AB PLAN
SPL1	PL5/8"X6" x 20 1/2"	8 - 3/4" x 2 1/2" A325N
SPL1	PL5/8"X6" x 20 1/2"	8 - 3/4" x 2 1/2" A325N
SPL2	PL1/2"X6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N

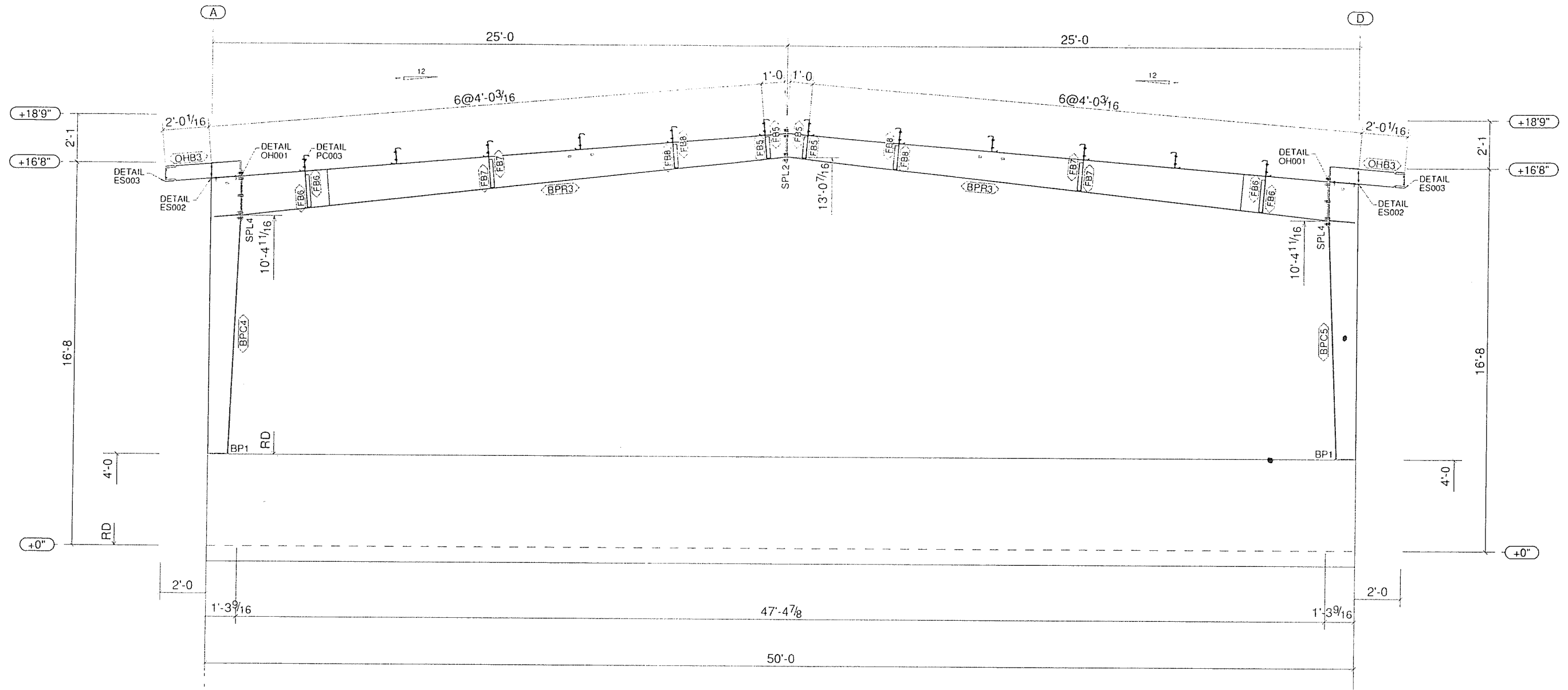
Component Bolt Table		
Detail ID	Bolted Parts	Bolt Description
OH001	↓ ↓	
	OHB1 → BPC1	4 - 5/8" x 2" A325N
	OHB2 → BPC7	4 - 5/8" x 2" A325N



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: FRAME ELEVATION ON GRID 1		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1.00:12
CUSTOMER NAME: Jefferson County Drainage D***	ADDRESS: Beaumont, TX 77707	SCALE: 1:25
DETAILER: GJH	CHECKER: GJH	DATE: 08/19/2019
JOB #: 5663293	DWG #: E6	REV: 0







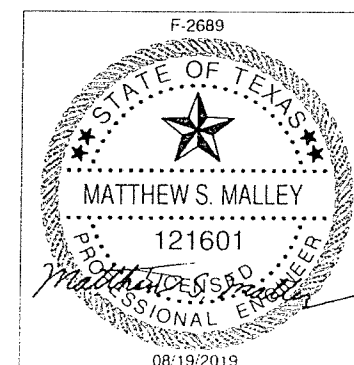
FRAME ELEVATION ON GRIDS 3, 8

BUILT UP MEMBER TABLE				
Mark	Type	Thick	x Max Width	x Length
BPC4	WB	PL3/16"	X15"	x 144 1/2"
	IF	PL5/16"	X6"	x 121 5/16"
	OF	PL1/4"	X6"	x 143 1/4"
BPC5	WB	PL3/16"	X15"	x 144 1/2"
	IF	PL5/16"	X6"	x 121 5/16"
	OF	PL1/4"	X6"	x 143 1/4"
BPR3	WB	SHT10GAX18	11/16" x 240"	
	IF	PL1/4"	X6"	x 233"
	IF	PL1/4"	X6"	x 52"
	OF	PL1/4"	X6"	x 234"
	OF	PL1/4"	X6"	x 50 3/16"
	WB	SHT10GAX20"		x 45 7/8"

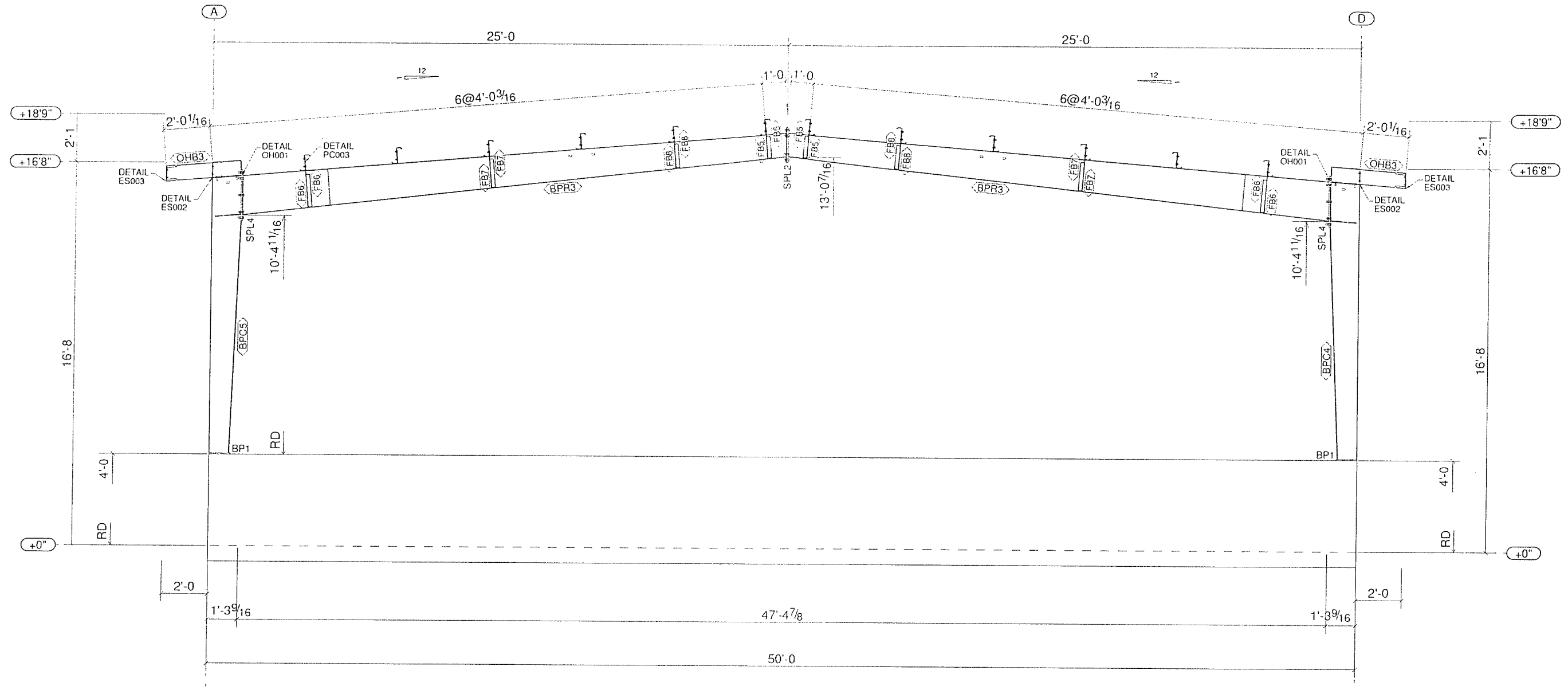
Bill of Materials				
Qty	Mark	Profile	Finish	Length
1	BPC4	PL3/16"X15"	HD	
1	BPC5	PL3/16"X15"	HD	
2	BPR3	SHT10GAX18 11/16"	HD	
2	OHB3	W8X10	HD	
4	FB5	2X2L12	GZ	2'-7 13/16"
4	FB6	2X2L12	GZ	2'-11 5/16"
4	FB7	2X2L12	GZ	2'-9 13/16"
4	FB8	2X2L12	GZ	2'-8 7/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
SPL2	PL1/2"X6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N
SPL4	PL1/2"X6" x 26 1/2"	10 - 3/4" x 2 1/2" A325N
SPL4	PL1/2"X6" x 26 1/2"	10 - 3/4" x 2 1/2" A325N

Component Bolt Table		
Detail ID	Bolted Parts	Bolt Description
OH001	↓	↓
	OHB3 → BPC4	4 - 5/8" x 2" A325N
	OHB3 → BPC5	4 - 5/8" x 2" A325N



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 521-1087		
DRAWING DESCRIPTION: FRAME ELEVATION ON GRIDS 3, 8		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1:00:12
CUSTOMER NAME: Jefferson County Drainage Dist.	ADDRESS: Beaumont, TX 77707	SCALE: 1:25
DETAILER: GJH	CHECKER: GJH	DATE: 08/19/2019
JOB #: 5663293	OWG #: E8	REV: 0



FRAME ELEVATION ON GRIDS 4, 9

BUILT UP MEMBER TABLE				
Mark	Type	Thick	x Max Width	x Length
BPC4	WB	PL3/16"	X15"	x 144 1/2"
	IF	PL5/16"	X6"	x 121 5/16"
	OF	PL1/4"	X6"	x 143 1/4"
BPC5	WB	PL3/16"	X15"	x 144 1/2"
	IF	PL5/16"	X6"	x 121 5/16"
	OF	PL1/4"	X6"	x 143 1/4"
BPR3	WB	SHT10GAX18	11/16"	x 240"
	IF	PL1/4"	X6"	x 233"
	IF	PL1/4"	X6"	x 52"
	OF	PL1/4"	X6"	x 234"
	OF	PL1/4"	X6"	x 50 3/16"
	WB	SHT10GAX20"	x 45 7/8"	

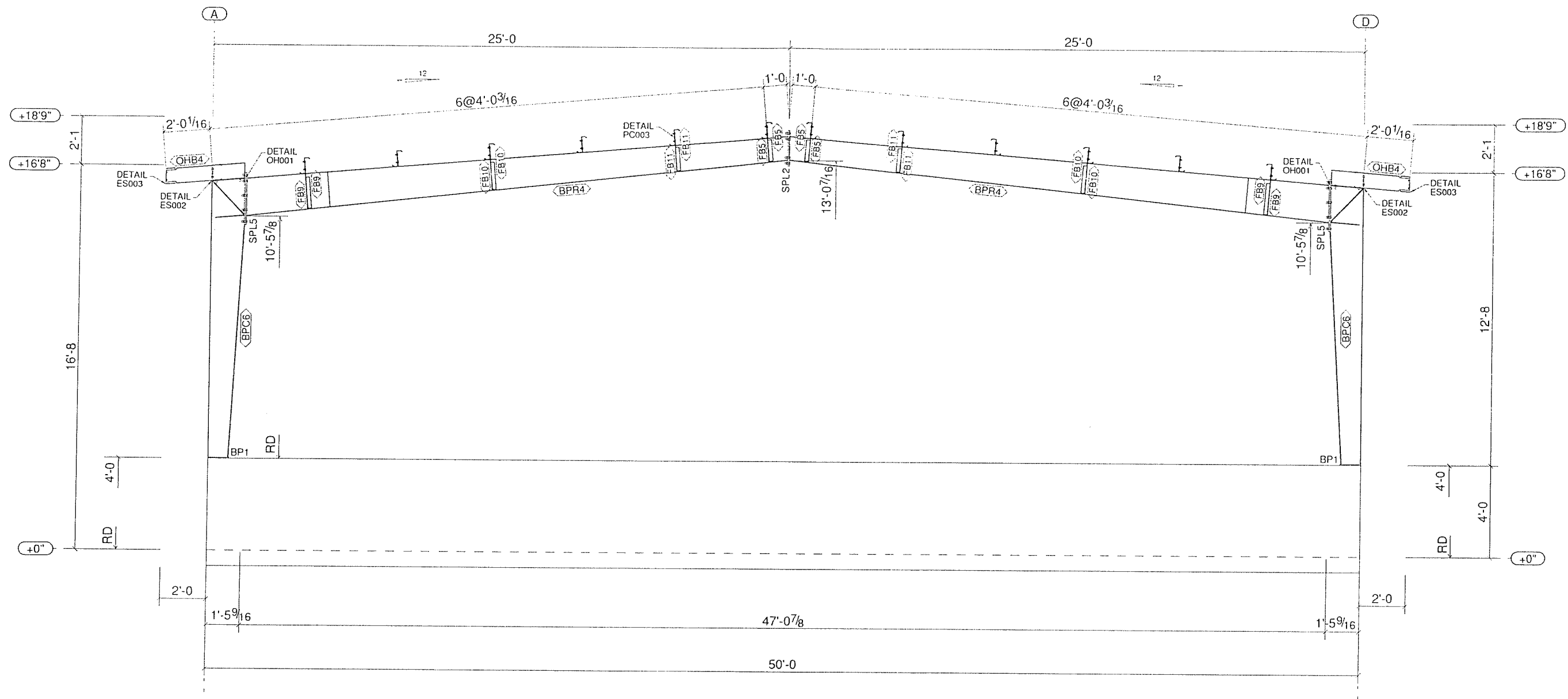
Bill of Materials				
Qty	Mark	Profile	Finish	Length
1	BPC4	PL3/16"X15"	HD	
1	BPC5	PL3/16"X15"	HD	
2	BPR3	SHT10GAX18 11/16"	HD	
2	OHB3	W8X10	HD	
4	FB5	2X2L12	GZ	2'-7 13/16"
4	FB6	2X2L12	GZ	2'-11 3/8"
4	FB7	2X2L12	GZ	2'-9 13/16"
4	FB8	2X2L12	GZ	2'-8 7/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
SPL2	PL1/2"X6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N
SPL4	PL1/2"X6" x 26 1/2"	10 - 3/4" x 2 1/2" A325N
SPL4	PL1/2"X6" x 26 1/2"	10 - 3/4" x 2 1/2" A325N

Component Bolt Table		
Detail ID	Bolled Parts	Bolt Description
OH001	↓ ↓	
	OHB3 → BPC4	4 - 5/8" x 2" A325N
	OHB3 → BPC5	4 - 5/8" x 2" A325N



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: FRAME ELEVATION ON GRIDS 4, 9		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1:00:12
CUSTOMER NAME: Jefferson County Drainage D...	ADDRESS: Beaumont, TX 77707	SCALE: 1:25
DETAILER: GJH	CHECKER: GJH	JOB #: 5663293
DATE: 08/19/2019	DATE: 08/19/2019	REV: 0



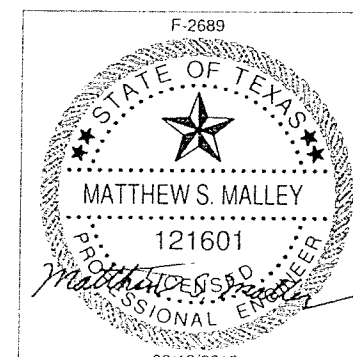
FRAME ELEVATION ON GRIDS 5, 6, 7, 10

BUILT UP MEMBER TABLE			
Mark	Type	Thick x Max Width x Length	
BPC6	WB	SHT10GAX17" x 144 11/16"	
	IF	PL5/16"x6" x 121 1/8"	
	OF	PL1/4"x6" x 143 1/4"	
BPR4	WB	SHT10GAX17 15/16" x 240"	
	IF	PL1/4"x6" x 233"	
	IF	PL1/4"x6" x 49 7/8"	
	OF	PL1/4"x6" x 234"	
	OF	PL1/4"x6" x 48 3/16"	
	WB	SHT10GAX19" x 43 13/16"	

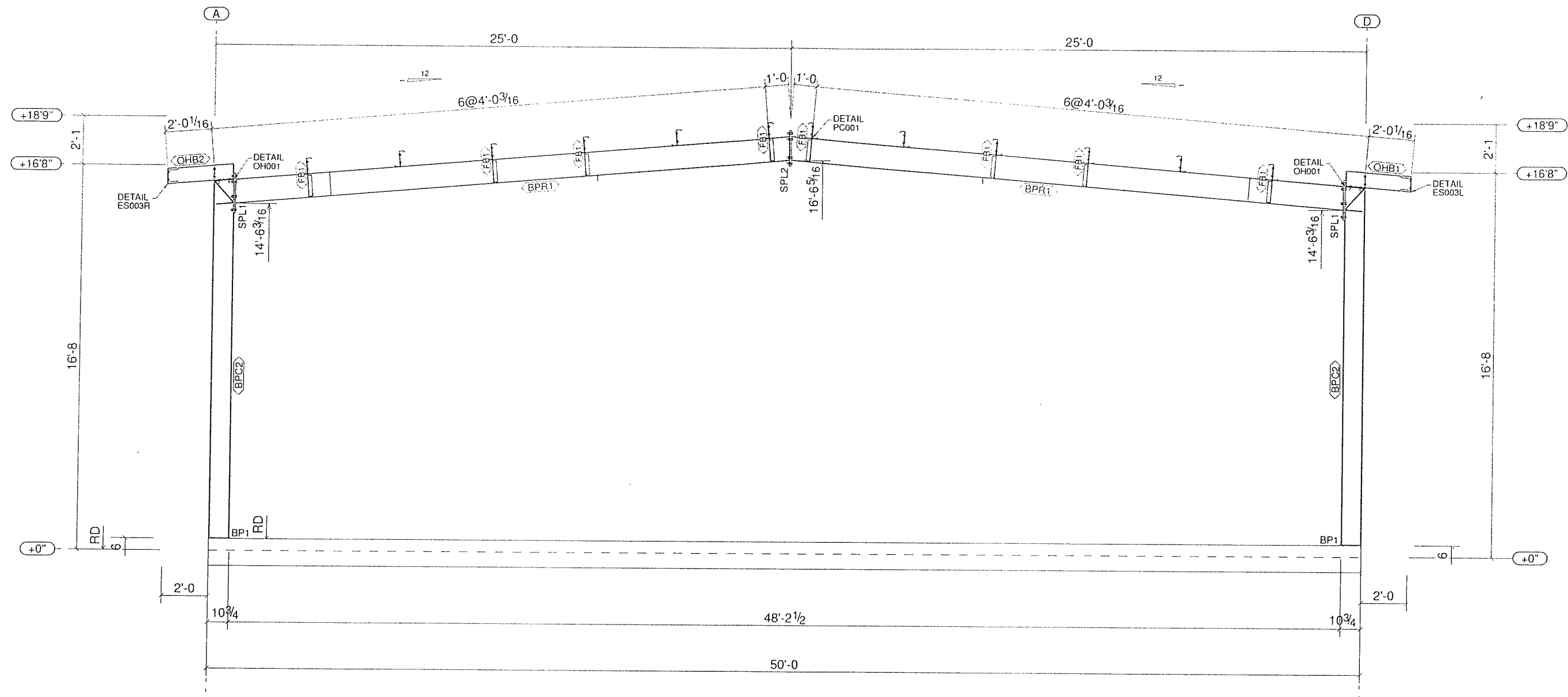
Bill of Materials				
Qty	Mark	Profile	Finish	Length
2	BPC6	SHT10GAX17"	HD	
2	BPR4	SHT10GAX17 15/16"	HD	
2	OH04	W8X10	HD	
4	FB5	2X2L12	GZ	2'-7 13/16"
4	FB9	2X2L12	GZ	2'-10 13/16"
4	FB10	2X2L12	GZ	2'-9 1/2"
4	FB11	2X2L12	GZ	2'-8 5/16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
SPL2	PL1/2"x6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N
SPL5	PL1/2"x6" x 27"	10 - 3/4" x 2 1/2" A325N
SPL6	PL1/2"x6" x 27"	10 - 3/4" x 2 1/2" A325N

Component Bolt Table		
Detail ID	Bolted Parts	Bolt Description
OH001	↓ ↓	
	OH04 → BPC6	4 - 5/8" x 2" A325N



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: FRAME ELEVATION ON GRIDS 5, 6, 7, 10		
SALESMAN Jacob Kenna	BUILDING DESCRIPTION 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE 1.00:12
CUSTOMER NAME Jefferson County Drainage D***	ADDRESS Beaumont, TX 77707	SCALE 1.25
DETAILER GJH	CHECKER GJH	DATE 08/19/2019
JOB # 5663293	DWG # E10	REV 0



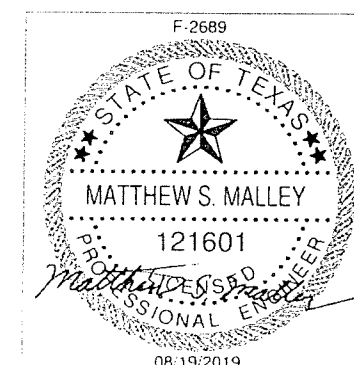
FRAME ELEVATION ON GRID 11  
 \*\* THIS ENDWALL FRAME IS NOT EXPANDABLE \*\*

BUILT UP MEMBER TABLE				
Mark	Type	Thick	x Max Width	x Length
BPC2	WB	PL3/16"	X10"	x 185 15'16"
	IF	PL3/8"	X6"	x 168 3'4"
	OF	PL3/8"	X6"	x 185 1'8"
BPR1	WB	SHT10GAX12"		x 240"
	IF	PL1/4"	X6"	x 55 7'8"
	IF	PL1/4"	X6"	x 233"
	OF	PL1/4"	X6"	x 54 7'8"
	OF	PL1/4"	X6"	x 234"
	WB	SHT10GAX12"		x 49 7'8"

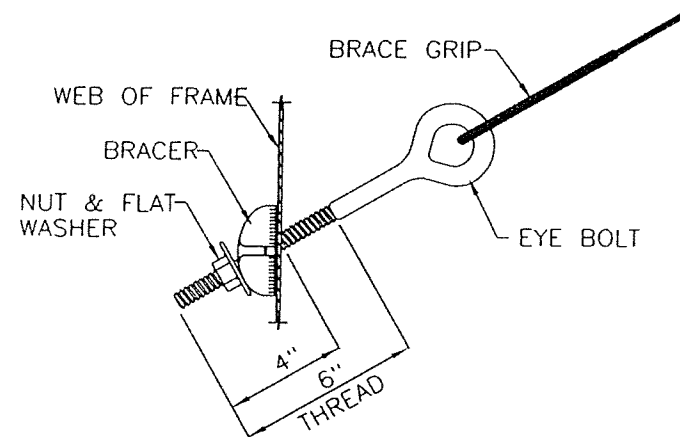
Bill of Materials				
Qty	Mark	Profile	Finish	Length
2	BPC2	PL3/16" X10"	HD	
2	BPR1	SHT10GAX12"	HD	
1	OHB1	W8X10	HD	
1	OHB2	W8X10	HD	
8	FB1	2X2L12	GZ	2'-7 11'16"

Connection Plate and Bolt Table		
Mark	Plate Profile	Bolt Description
SPL1	PL5/8"X6" x 20 1/2"	8 - 3/4" x 2 1/2" A325N
SPL1	PL5/8"X6" x 20 1/2"	8 - 3/4" x 2 1/2" A325N
SPL2	PL1/2"X6" x 18 1/2"	8 - 3/4" x 2 1/2" A325N

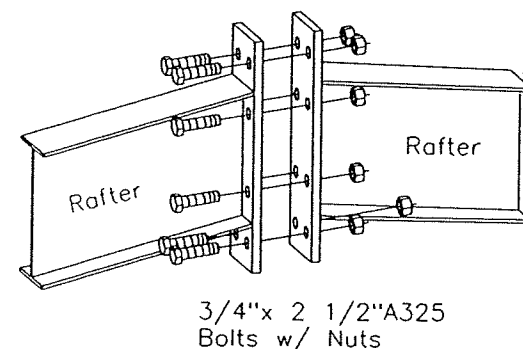
Component Bolt Table		
Detail ID	Bolted Parts	Bolt Description
OH001	↓	
	OHB1 → BPC2	4 - 5/8" x 2" A325N
	OHB2 → BPC2	4 - 5/8" x 2" A325N



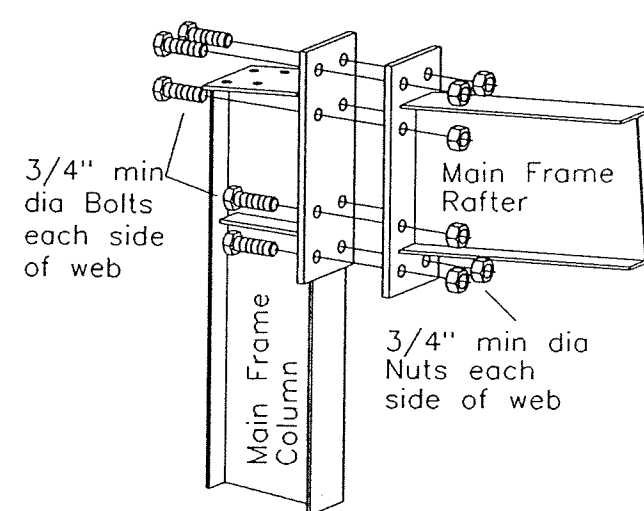
0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: FRAME ELEVATION ON GRID 11		
SALESMAN: Jacob Kenna	BUILDING DESCRIPTION: 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE: 1.00:12
CUSTOMER NAME: Jefferson County Drainage D***	ADDRESS: Beaumont, TX 77707	SCALE: 1:25
DETAILER: GJH	CHECKER: GJH	DATE: 08/19/2019
JOB #: 5663293	DWG #: E11	REV: 0



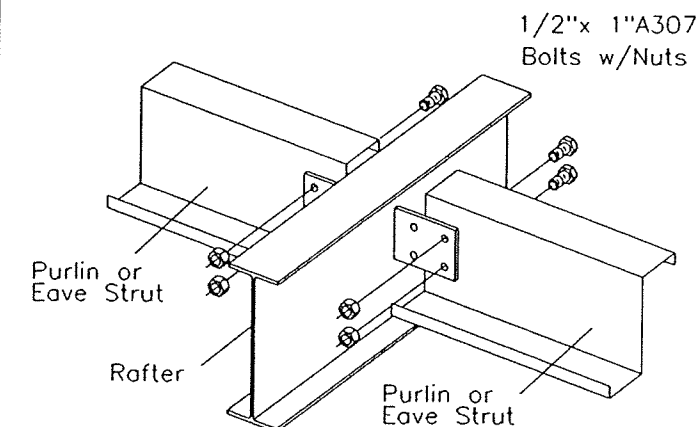
BR001 CABLE TO COLUMN OR RAFTER WEB WITH EYEBOLT ATTACHMENT



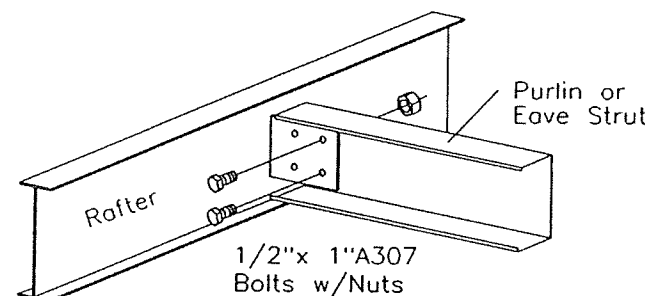
TYPICAL RAFTER SPLICE CONNECTION AT PEAK



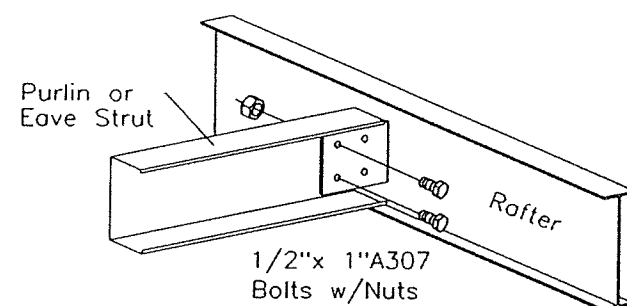
TYPICAL FLUSH COLUMN TO MAINFRAME RAFTER



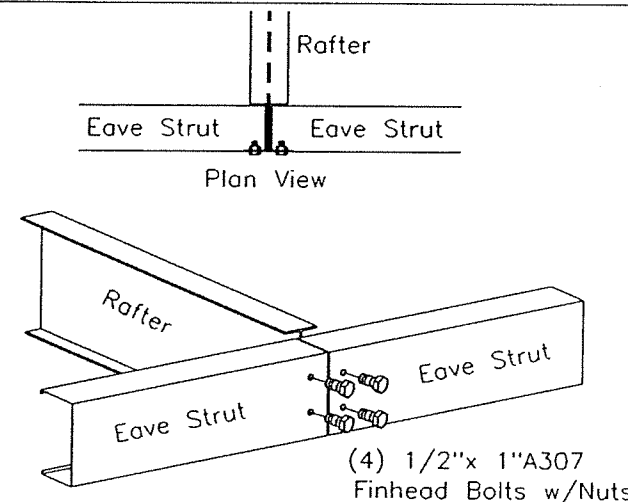
ES002 FLUSH ROOF PURLIN OR EAVE STRUT TO RAFTER



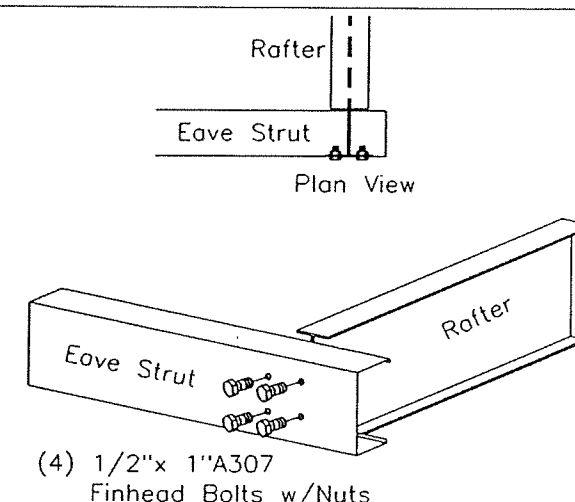
ES002L FLUSH ROOF PURLIN OR EAVE STRUT TO RAFTER



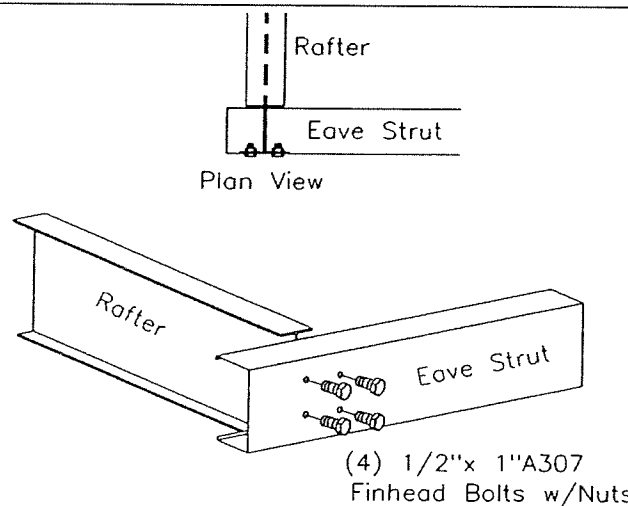
ES002R FLUSH ROOF PURLIN OR EAVE STRUT TO RAFTER



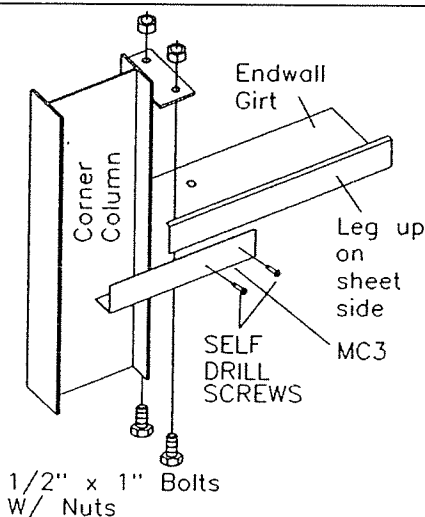
ES003 FLUSH EAVE STRUT TO OVERHANG RAFTER



ES003L FLUSH EAVE STRUT TO OVERHANG ENDWALL RAFTER

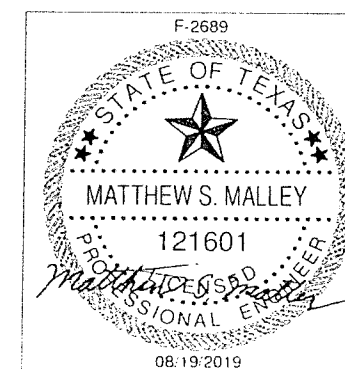


ES003R FLUSH EAVE STRUT TO OVERHANG ENDWALL RAFTER



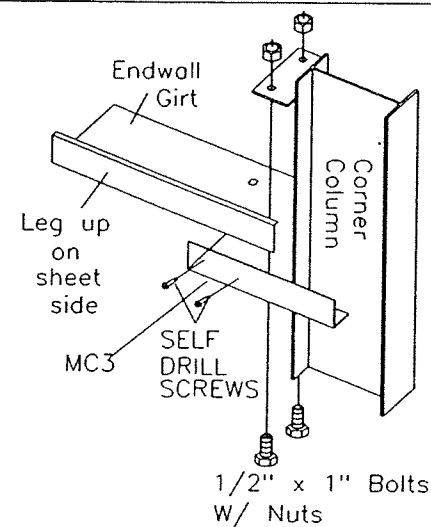
GC002BUE1 CORNER COLUMN TO ENDWALL GIRT

ALL A325 STRUCTURAL BOLT CONNECTIONS SHOWN IN THESE DETAILS HAVE STANDARD MINIMUM BOLT INFORMATION. FOR SPECIFIC BOLT QUANTITIES AND AND SIZES, REFER TO COMPONENT BOLT TABLES LOCATED ON FRAME AND WALL ELEVATION DWGS.

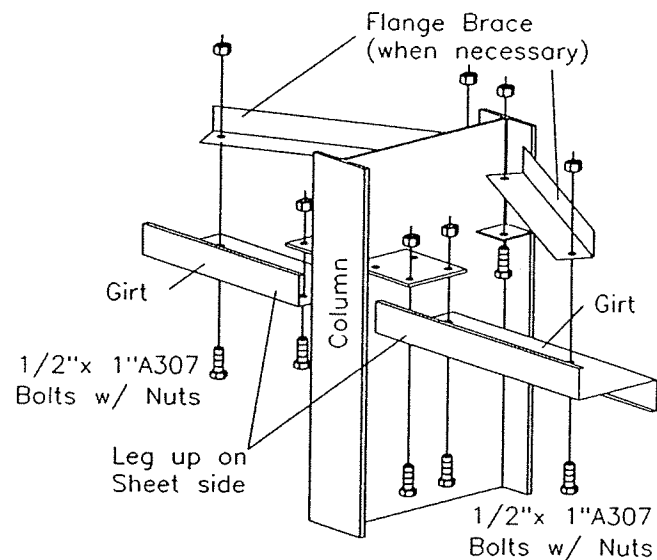


0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION: <b>ERECTION DETAILS</b>		
SALESMAN Jacob Kenna	BUILDING DESCRIPTION 50'-0" X 250'-0" X 16'-8"	ROOF SLOPE 1.00:12
CUSTOMER NAME Jefferson County Drainage Dist.	ADDRESS Beaumont, TX 77707	SCALE NONE
DETAILER GJH	CHECKER GJH	DATE 08/19/2019
JOB # 5663293	DWG # E101	REV. 0

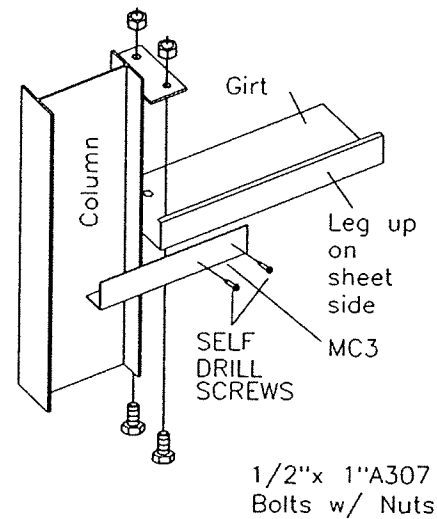




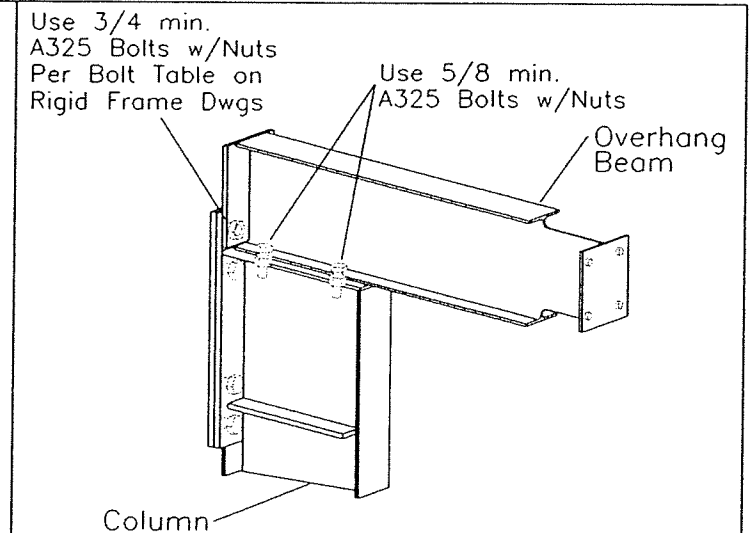
GC002BUER CORNER COLUMN TO ENDWALL GIRT



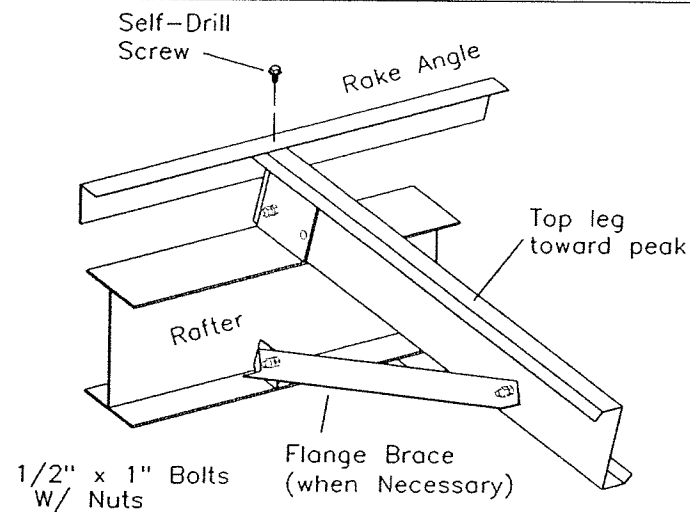
GC020 INTERIOR COLUMN TO WALL GIRT



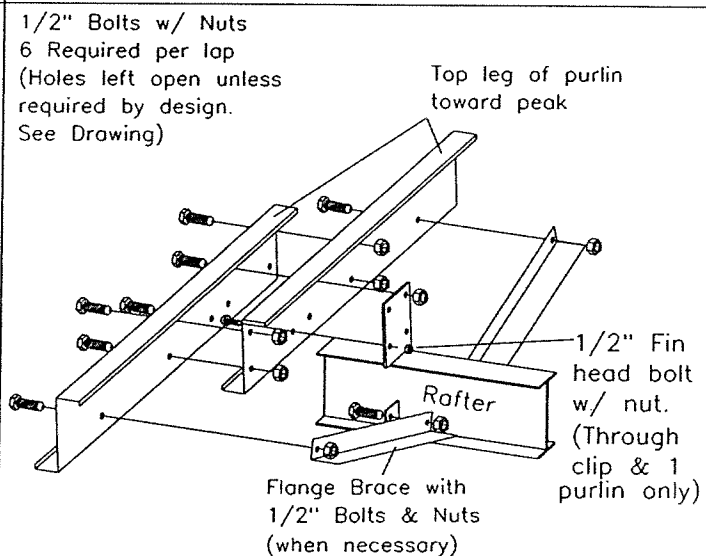
GC63 COLUMN TO WALL GIRT



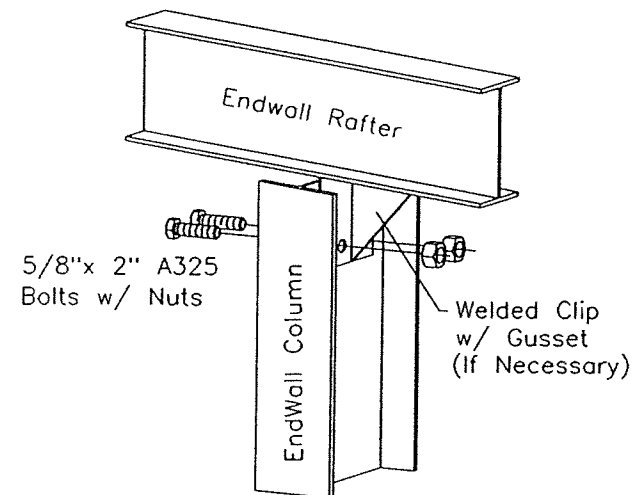
OH001 OVERHANG CONNECTION



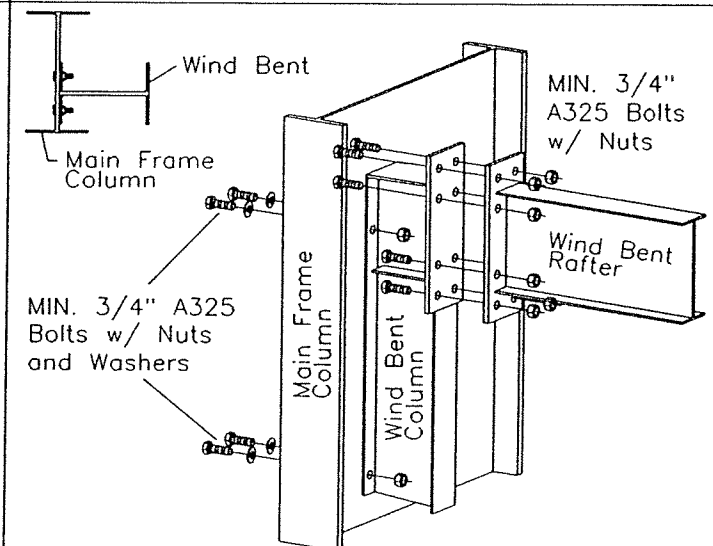
PC001 ENDWALL RAFTER TO ROOF PURLIN



PC003 INTERIOR RAFTER TO ROOF PURLIN

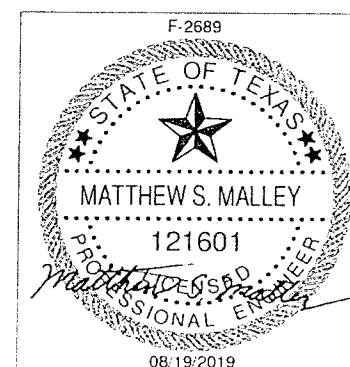


RC002 ENDWALL RAFTER TO COLUMN



WB002 MAINFRAME COLUMN TO WIND BENT FRAME

ALL A325 STRUCTURAL BOLT CONNECTIONS SHOWN IN THESE DETAILS HAVE STANDARD MINIMUM BOLT INFORMATION. FOR SPECIFIC BOLT QUANTITIES AND AND SIZES, REFER TO COMPONENT BOLT TABLES LOCATED ON FRAME AND WALL ELEVATION DWGS.



0	08/19/2019	For Construction
REV	DATE	DESCRIPTION
<b>MUELLER, INC.</b> STEEL BUILDING SYSTEMS & COMPONENTS 1913 Hutchins Ave. Ballinger, TX 76821 (800) 527-1087		
DRAWING DESCRIPTION:		
ERECTION DETAILS		
SALESMAN	BUILDING DESCRIPTION:	
Jacob Kenna	50'-0" X 250'-0" X 16'-8"	
CUSTOMER NAME	ADDRESS	
Jefferson County Drainage Dist.	Beaumont, TX 77707	
DETAILER	CHECKER	DATE
GJH		08/19/2019
JOB #	DWG #	REV.
	5663293	E102 0



Mueller, Inc.  
 1913 Hutchins Ave. -- COMPLEX CUSTOM 54983 --  
 Ballinger, TX 76821  
 www.muellerinc.com  
 (800)527-1087

DATE: 09/09/2019 PAGE : 1  
 ROOF SLOPE: 1.00:12 JOB #: 5663293  
 BLDG SIZE: 50'-0" X 250'-0" X 16'-8"  
 CUSTOMER: Jefferson County Drainage D\*\*\*  
 LOCATION: Beaumont, TX 77707  
 END USER:  
 SALESMAN: Jacob Kenna

ENGINEER: MSM

DETAILER: GJH

SHOP FABRICATED FRAME MEMBERS (Prefab Order)

Item	Qty	Mark	Description	Profile	Color	Length	Unit	Total
1	1	BPC1	RF Column		HD	15'-9 3/4"	391.14	391.1
2	2	BPC2	RF Column		HD	15'-9 3/4"	382.20	764.4
3	4	BPC4	RF Column		HD	12'-4 1/4"	269.56	1078.2
4	4	BPC5	RF Column		HD	12'-4 1/4"	269.56	1078.2
5	8	BPC6	RF Column		HD	12'-4 7/16"	267.20	2137.6
6	1	BPC7	RF Column		HD	15'-9 3/4"	391.14	391.1
7	2	BPC8	RF Column		HD	15'-10 1/4"	330.50	661.0
8	4	BPR1	RF Rafter		HD	24'-2"	437.33	1749.3
9	2	BPR2	RF Rafter		HD	23'-9 1/4"	463.09	926.2
10	8	BPR3	RF Rafter		HD	23'-9 1/4"	474.46	3795.7
11	8	BPR4	RF Rafter		HD	23'-7 1/4"	466.52	3732.1
12	2	OHB1	OH Canopy Beam	W8X10	HD	2'-11"	35.35	70.7
13	2	OHB2	OH Canopy Beam	W8X10	HD	2'-11"	35.35	70.7
14	10	OHB3	OH Canopy Beam	W8X10	HD	3'-3 7/8"	42.48	424.8
15	8	OHB4	OH Canopy Beam	W8X10	HD	3'-5 7/8"	44.13	353.1
16	8	WBC1	Windbent Column	W8X13	HD	11'-11"	166.76	1334.1
17	4	WBR1	Windbent Rafter	W8X18	HD	23'-7 13/16"	439.66	1758.6
18	4	WEP1	WIDE-FLANGE	W8X10	HD	15'-9 11/16"	186.71	746.9

Total Piece Count = 82

Builtup wt = 16705.1 lbs  
 Non-Builtup wt = 4758.8 lbs

Total wt = 21463.9 lbs

**Galvanized**



Mueller, Inc.  
1913 Hutchins Ave. -- COMPLEX CUSTOM 54983 --  
Ballinger, TX 76821  
www.muellerinc.com  
(800)527-1087

DATE: 09/09/2019      PAGE : 1  
ROOF SLOPE: 1.00:12      JOB #: 5663293  
BLDG SIZE: 50'-0" X 250'-0" X 16'-8"  
CUSTOMER: Jefferson County Drainage D\*\*\*  
LOCATION: Beaumont, TX 77707  
END USER:  
SALESMAN: Jacob Kenna

ENGINEER: MSM

DETAILER: GJH

=====

CABLE ASSEMBLY LIST

.....

8	CB1	Bracing - 1/4 Cable Assembly	CB1/4D	GZ	29'-9 3/8"
		Each Cable Assembly Requires:			
39592		27'-3 3/8" of 1/4 Diameter Cable			
39583		2 - 1/4 BRACE GRIP			
47249		2 - 5/8 EYEBOLT Assy w/ #1 Bracer			
		***ASSEMBLE CABLE AT BOTH ENDS***			

.....

8	CB2	Bracing - 1/4 Cable Assembly	CB1/4D	GZ	26'-9 1/8"
		Each Cable Assembly Requires:			
39592		24'-3 1/8" of 1/4 Diameter Cable			
39583		2 - 1/4 BRACE GRIP			
47249		2 - 5/8 EYEBOLT Assy w/ #1 Bracer			
		***ASSEMBLE CABLE AT BOTH ENDS***			

-----

Colors: GZ - Galvanized

Notes: Length of cable bracing shown is out-to-out of brace assembly.  
"Eye Bolt" refers to Eye Bolt, Nut, Hillside Washer or Bracer and Flat washer.

***Galvanized***



Mueller, Inc.  
1913 Hutchings Ave.  
Ballinger, TX 76821  
www.muellerinc.com  
(800)527-1087

-- COMPLEX CUSTOM 54983 --

DATE: 9/9/2019 PAGE: 1 of 3  
ROOF SLOPE: 1.00:12 JOB#: 5663293  
BLDG SIZE: 50'-0" x 250'-0" x 16'-8"  
CUSTOMER: Jefferson County Drainage Dis  
LOCATION: Beaumont, TX 77707

ENGINEER: MSM

DETAILER: GJH

SALESMAN: Jacob Kenna

MANUFACTURED MATERIAL

Item	Qty	Length	Mark	Punch	Material	Color	Pitch
38068	11	15'-4 11/16"	G1	SS-SS	8X25Z14	GZ	
38068	8	15'-11 5/16"	G2	SS-SS	8X25Z14	GZ	
38068	5	15'-4 11/16"	G3	SS-SS	8X25Z14	GZ	
38068	12	27'-1 1/2"	P1	4FT-SLF	8X25Z14	GZ	
38068	12	28'-3 1/2"	P2	2FT-4FT	8X25Z14	GZ	
38068	36	27'-3 1/2"	P3	2FT-2FT	8X25Z14	GZ	
38068	36	27'-3 1/2"	P4	2FT-2FT	8X25Z14	GZ	
38068	12	28'-3 1/2"	P5	4FT-2FT	8X25Z14	GZ	
38068	12	27'-1 1/2"	P6	SLF-4FT	8X25Z14	GZ	
54905	4	16'-4 1/2"	BA2	NP-NP	ARO14GA	GZ	
Holes:				T X:	2"	Y:	-1.38
				T X:	2'-2 1/4"	Y:	-1.38
				T X:	5'-2 1/4"	Y:	-1.38
				T X:	8'-2 1/4"	Y:	-1.38
				T X:	11'-2 1/4"	Y:	-1.38
				T X:	14'-2 1/4"	Y:	-1.38
				T X:	16'-2 1/2"	Y:	-1.38
54905	2	16'-1 1/2"	BA3	NP-NP	ARO14GA	GZ	
Holes:				T X:	2"	Y:	-1.38
				T X:	2'-0 3/4"	Y:	-1.38
				T X:	5'-0 3/4"	Y:	-1.38
				T X:	8'-0 3/4"	Y:	-1.38
				T X:	11'-0 3/4"	Y:	-1.38
				T X:	14'-0 3/4"	Y:	-1.38
				T X:	15'-11 1/2"	Y:	-1.38
46331	2	24'-11 1/2"	ES1	NP-NP	81E14DU	GZ	1.00:12
Holes:				S34X58 X:	1 3/4"	Y:	2.02
				S34X58 X:	1 3/4"	Y:	-1.98
				S34X58 X:	5 3/4"	Y:	2.02
				S34X58 X:	5 3/4"	Y:	-1.98
				S34X58 X:	24'-9 3/4"	Y:	2.02
				S34X58 X:	24'-9 3/4"	Y:	-1.98
46331	1	23'-11 5/16"	ES2	NP-NP	81E14DU	GZ	1.00:12
Holes:				S34X58 X:	1 3/4"	Y:	1.89
				S34X58 X:	1 3/4"	Y:	-2.11
				R916 X:	4 3/4"	Y:	-7.42
				R916 X:	4 3/4"	Y:	-5.92
				R916 X:	8 3/4"	Y:	-7.42
				R916 X:	8 3/4"	Y:	-5.92
				R916 X:	22'-10 9/16"	Y:	-7.42
				R916 X:	22'-10 9/16"	Y:	-5.92
				R916 X:	23'-2 9/16"	Y:	-7.42
				R916 X:	23'-2 9/16"	Y:	-5.92
				S34X58 X:	23'-9 9/16"	Y:	-2.10
				S34X58 X:	23'-9 9/16"	Y:	1.90

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-- COMPLEX CUSTOM 54983 --

DATE: 9/9/2019 PAGE: 2 of 3  
ROOF SLOPE: 1.00:12 JOB#: 5663293  
BLDG SIZE: 50'-0" x 250'-0" x 16'-8"  
CUSTOMER: Jefferson County Drainage Dis  
LOCATION: Beaumont, TX 77707

ENGINEER: MSM

DETAILER: GJH

SALESMAN: Jacob Kenna

MANUFACTURED MATERIAL

Item	Qty	Length	Mark	Punch	Material	Color	Pitch
46331	16	24'-11 1/2"	ES3	NP-NP	81E14DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 2.02	
				S34X58 X:	1 3/4"	Y: -1.98	
				S34X58 X:	24'-9 3/4"	Y: 2.02	
				S34X58 X:	24'-9 3/4"	Y: -1.98	
46329	1	24'-3 5/16"	ES4	NP-NP	81E12DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 1.90	
				S34X58 X:	1 3/4"	Y: -2.10	
				R916 X:	3'-6 3/4"	Y: -7.42	
				R916 X:	3'-6 3/4"	Y: -5.92	
				R916 X:	3'-10 3/4"	Y: -7.42	
				R916 X:	3'-10 3/4"	Y: -5.92	
				S34X58 X:	24'-1 9/16"	Y: -2.10	
				S34X58 X:	24'-1 9/16"	Y: 1.90	
46329	14	24'-3 5/16"	ES5	NP-NP	81E12DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 1.90	
				S34X58 X:	1 3/4"	Y: -2.10	
				S34X58 X:	24'-1 9/16"	Y: -2.10	
				S34X58 X:	24'-1 9/16"	Y: 1.90	
46331	2	24'-11 1/2"	ES6	NP-NP	81E14DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 2.02	
				S34X58 X:	1 3/4"	Y: -1.98	
				S34X58 X:	24'-5 3/4"	Y: 2.02	
				S34X58 X:	24'-5 3/4"	Y: -1.98	
				S34X58 X:	24'-9 3/4"	Y: 2.02	
				S34X58 X:	24'-9 3/4"	Y: -1.98	
46331	2	23'-11 5/16"	ES7	NP-NP	81E14DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 1.89	
				S34X58 X:	1 3/4"	Y: -2.11	
				S34X58 X:	23'-9 9/16"	Y: -2.10	
				S34X58 X:	23'-9 9/16"	Y: 1.90	
46329	1	24'-3 5/16"	ES8	NP-NP	81E12DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 1.90	
				S34X58 X:	1 3/4"	Y: -2.10	
				R916 X:	20'-4 9/16"	Y: -7.42	
				R916 X:	20'-4 9/16"	Y: -5.92	
				R916 X:	20'-8 9/16"	Y: -7.42	
				R916 X:	20'-8 9/16"	Y: -5.92	
				S34X58 X:	24'-1 9/16"	Y: -2.10	
				S34X58 X:	24'-1 9/16"	Y: 1.90	
46331	1	23'-11 5/16"	ES9	NP-NP	81E14DU	GZ	1.00:12
			Holes:	S34X58 X:	1 3/4"	Y: 1.89	
				S34X58 X:	1 3/4"	Y: -2.11	
				R916 X:	5'-2 13/16"	Y: -7.42	
				R916 X:	5'-2 13/16"	Y: -5.92	
				R916 X:	5'-6 13/16"	Y: -7.42	
				R916 X:	5'-6 13/16"	Y: -5.92	
				R916 X:	13'-8 9/16"	Y: -7.42	
				R916 X:	13'-8 9/16"	Y: -5.92	
				R916 X:	14'-0 9/16"	Y: -7.42	
				R916 X:	14'-0 9/16"	Y: -5.92	
				S34X58 X:	23'-9 9/16"	Y: -2.10	
				S34X58 X:	23'-9 9/16"	Y: 1.90	

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DATE: 9/9/2019 PAGE: 3 of 3  
 ROOF SLOPE: 1.00:12 JOB#: 5663293  
 BLDG SIZE: 50'-0" x 250'-0" x 16'-8"  
 CUSTOMER: Jefferson County Drainage Dis  
 LOCATION: Beaumont, TX 77707

ENGINEER: MSM DETAILER: GJH SALESMAN: Jacob Kenna

MANUFACTURED MATERIAL

Item	Qty	Length	Mark	Punch	Material	Color	Pitch
56913	16	2'-7 11/16"	FB1	FB-FB	2X2L12	GZ	
56913	4	2'-10 3/8"	FB2	FB-FB	2X2L12	GZ	
56913	4	2'-9 1/4"	FB3	FB-FB	2X2L12	GZ	
56913	4	2'-8 1/4"	FB4	FB-FB	2X2L12	GZ	
56913	36	2'-7 13/16"	FB5	FB-FB	2X2L12	GZ	
56913	16	2'-11 5/16"	FB6	FB-FB	2X2L12	GZ	
56913	16	2'-9 13/16"	FB7	FB-FB	2X2L12	GZ	
56913	23	2'-8 7/16"	FB8	FB-FB	2X2L12	GZ	
56913	16	2'-10 13/16"	FB9	FB-FB	2X2L12	GZ	
56913	16	2'-9 1/2"	FB10	FB-FB	2X2L12	GZ	
56913	9	2'-8 5/16"	FB11	FB-FB	2X2L12	GZ	
56913	6	3'-10 1/8"	JB1	FB-FB	2X2L12	GZ	
38085	2	27'-0 5/8"	SA1	NP-NP	ARO14GA	GZ	
38085	2	27'-0 9/16"	SA2	NP-NP	ARO14GA	GZ	

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DATE: 09/09/2019 PAGE : 1  
 ROOF SLOPE: 1.00:12 JOB #: 5663293  
 BLDG SIZE: 50'-0" X 250'-0" X 16'-8"  
 CUSTOMER: Jefferson County Drainage D\*\*\*  
 LOCATION: Beaumont, TX 77707  
 END USER:  
 SALESMAN: Jacob Kenna

ENGINEER: MSM

DETAILER: GJH

HARDWARE (Sales Order)

Item	Qty	Mark	Length	Description	Profile	Color
39592	8	CB1	29'-9 7/16"	1/4 CABLE	CB1/4D	GZ
39592	8	CB2	26'-9 1/8"	1/4 CABLE	CB1/4D	GZ
39583	32	BG1	2'-0"	1/4 BRACE GRIP		GZ
47249	32	EB1	0'-11"	5/8 EYEBOLT		GZ
51689	16	MC3	2'-0"	MC CLIP	MC3	GZ
53684	12	MKB2	0'-3 1/2"	MKB2 CLIP	MKB2	GZ
47247				Strapping 2526'-4"(Actual)	2" X 24 GA	GZ
40378	1289			BOLT 1/2"DIA A307 1"		GZ
39360	206			BOLT 1/2"DIA A307 FIN HEAD 1"		GZ
40380	449			BOLT 3/4"DIA A325 2"1/2		GZ
40379	101			BOLT 5/8"DIA A325 2"		GZ
64972	1495			NUT 1/2"DIA A307		GZ
64959	449			NUT 3/4"DIA A325		GZ
64960	101			NUT 5/8"DIA A325		GZ
67963	67			WASHER 3/4"DIA		GZ

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