



# Wisconsin Department of Transportation

## Division of Transportation Systems Development

Bureau of Project Development  
4822 Madison Yards Way, 4<sup>th</sup> Floor South  
Madison, WI 53705

July 27, 2021

Telephone: (608) 266-1631  
Facsimile (FAX): (608) 266-8459

### NOTICE TO ALL CONTRACTORS:

**Proposal #03: 3653-00-70**  
**CTH S – CTH O**  
**Turtle Creek Bridge, B-53-0386**  
**CTH J**  
**Rock County**

### Letting of August 10, 2021

This is Addendum No. 01, which provides for the following:

#### Schedule of Items:

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
550.0500	Pile Points	EACH	30	-20	10

#### Plan Sheets:

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
41	General Plan (Pile points removed and clarified that driving not required for pre-bored piles at piers)
42	Quantities and Notes (Revised pile point quantity)
43	Subsurface Exploration (Removed pile points at piers)
50	Pier 1 (Pile points removed and clarified that driving not required for pre-bored piles)
51	Pier 2 (Pile points removed and clarified that driving not required for pre-bored piles)

**Schedule of Items**

Attached, dated July 27, 2021, are the revised Schedule of Items Page 2.

**Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 41, 42, 43, 50, 51

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

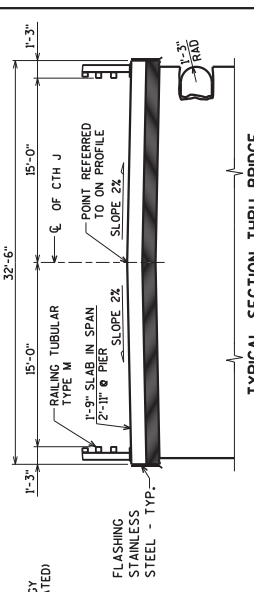
Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

END OF ADDENDUM

STATE PROJECT NUMBER  
**3653-00-70**



**DESIGN DATA**

LIVE LOADS: HS-20  
DESIGN SPEED: 55 MPH  
OPERATING RATING FACTOR: 1.42  
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS  
STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 2.0" ± 0.1" ± 0.1".

MATERIAL PROPERTIES:  
CONCRETE MASONRY (SUPERSTRUCTURE)  $f'_c = 4,000$  P.S.I.  
ALL OTHER  $f'_c = 3,500$  P.S.I.  
HIGH STRENGTH BAR STEEL REINFORCEMENT (GRADE 60)  $f_y = 60,000$  P.S.I.

HYDRAULIC DATA:  
100 YEAR FREQUENCY  
 $Q_{100} = 13,769$  C.F.S. (BRIDGE) = 13,286 C.F.S.  
 $VEL. = 9.5$  F.P.S.  
 $HW_{100} = EL. 814.28$   
WATERWAY AREA = 1,400 SQ. FT.  
SCOUR CRITICAL CODE = 5  
DATUM = NAVD88 (2012)

FOUNDATION DATA:  
ABUTMENTS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS ± PER PILE AS DETERMINED BY THE LOGGED DRIVING RESISTANCE (LOGGED TO 25' BELOW THE PILE POINTS).  
PIERS TO BE SUPPORTED ON HP 10 x 42 STEEL PILING (WITH PILE POINTS) DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS ± PER PILE AS DETERMINED BY THE LOGGED DRIVING RESISTANCE (LOGGED TO 25' BELOW THE PILE POINTS).  
\* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

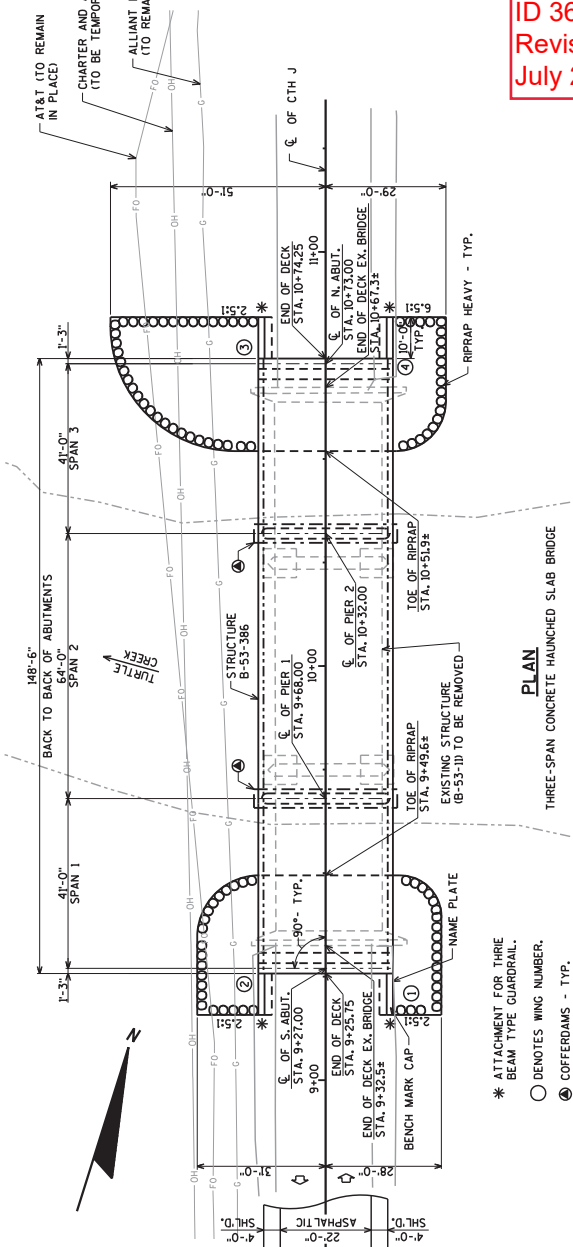
TRAFFIC DATA:  
A.A.D.T. = 600 (2022)  
A.A.D.T. = 1,000 (2042)  
R.D.S. = 35 M.P.H.

ORIGINAL PLANS PREPARED BY  
**AVRES**  
3433 Oakwood Hills Parkway  
Eau Claire, WI 54601  
www.AvresAssociates.com

ACCEPTED  
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
CHIEF STRUCTURES DESIGN ENGINEER  
**STRUCUTURE B-53-386**  
COUNTY  
ROCK  
TOWN/SHIP/TOWNSHIP  
TURTLE  
DESIGN SPEC.  
ALSHO LREQ BRIDGE DESIGN SPECIFICATIONS  
ASSIGNED DESIGN JLB BY ZSS (C) DNS

GENERAL PLAN  
SHEET 1 OF 15  
DATE: 41

**Addendum No. 01**  
**ID 3653-00-70**  
**Revised Sheet 41**  
**July 27, 2021**

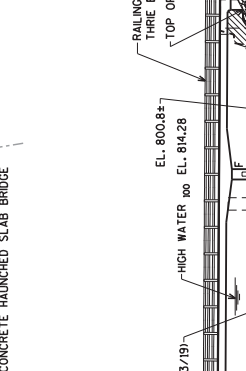


**PLAN**

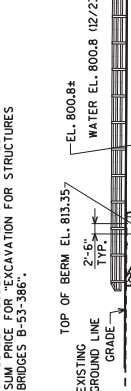
THREE-SPAN CONCRETE HAUNCHED SLAB BRIDGE

\* ATTACHMENT FOR THREE BEAM TYPE GUARDRAIL.  
○ DENOTES WING NUMBER.  
⊙ COFFERDAMS - TYP.

COST OF EXCAVATION IN THE HATCHED AREAS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM EXCAVATION FOR STRUCTURES BRIDGES B-53-386.



**ELEVATION**



**PROFILE GRADE LINE**  
(C.T.H.)

BENCH MARK:  
BRASS SPKRE IN NE WING  
STA. 10+67.0±, 16 RT.  
EL. 816.41

- LIST OF DRAWINGS**
- GENERAL PLAN AND NOTES
  - QUANTITIES AND NOTES
  - SUBSURFACE EXPLORATION
  - SOUTH ABUTMENT
  - SOUTH ABUTMENT WINGS 1 & 2 DETAILS
  - NORTH ABUTMENT DETAILS & BILL OF BARS
  - NORTH ABUTMENT WINGS 3 & 4 DETAILS
  - NORTH ABUTMENT DETAILS & BILL OF BARS
  - PIER 1
  - PIER 2
  - SUPERSTRUCTURE PLAN
  - SUPERSTRUCTURE DETAILS
  - SUPERSTRUCTURE DETAILS
  - TUBULAR STEEL RAILING TYPE 'M'

07/27/21

PROFESSIONAL ENGINEER  
DANIEL N. SYDOW  
E-38663  
WI

BRIDGE OFFICE CONTACT:  
07/26/2021  
1609-261-0261

CONSULTANT CONTACT:  
1781-834-3161

DATE: 07/27/21

DATE: 07/27/21

DATE: 07/27/21

DATE: 07/27/21

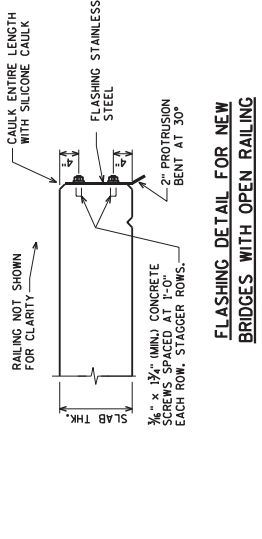
**TOTAL ESTIMATED QUANTITIES**

STATE PROJECT NUMBER  
**3653-00-70**

BID ITEM NUMBER	BID ITEMS	UNIT	S. ABUT.	PIER 1	PIER 2	N. ABUT.	SUPER.	TOTAL
203-0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-----	-----	-----	-----	-----	1
206-1000	EXCAVATION FOR STRUCTURES BRIDGES B-53-386	LS	-----	-----	-----	-----	-----	1
206-1500	COFFERDAMS (B-53-0386)	LS	-----	-----	-----	-----	-----	1
210-1500	BACKFILL STRUCTURE TYPE A	TON	-----	-----	-----	-----	-----	220
502-0100	CONCRETE MASONRY BRIDGES	CF	-----	-----	-----	-----	-----	529
502-0200	PROTECTIVE SURFACE TREATMENT	SY	-----	-----	-----	-----	-----	635
505-0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-----	-----	-----	-----	-----	9,280
505-0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	-----	-----	-----	-----	-----	66,020
512-0501	REINFORCED CONCRETE WATERPROOFING	SY	-----	-----	-----	-----	-----	297
512-0502	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	-----	-----	-----	-----	-----	200
550-0200	PILING POINTS	EA	-----	-----	-----	-----	-----	36
550-1100	PILING STEEL HP 10-INCH x 42 LB	CF	-----	-----	-----	-----	-----	125
606-0300	RIPRAP HEAVY	CF	-----	-----	-----	-----	-----	260
612-0400	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-----	-----	-----	-----	-----	185
645-0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	-----	-----	-----	-----	-----	70
645-0120	GEOTEXTILE TYPE HR	SY	-----	-----	-----	-----	-----	25
999-1000.S	SEISMOGRAPH	LF	-----	-----	-----	-----	-----	325
999-1500.S	CRACK AND DAMAGE SURVEY	SY	-----	-----	-----	-----	-----	50
SPV-0090-01	FLASHING STAINLESS STEEL	LF	-----	-----	-----	-----	-----	570
	NON-BID ITEMS	LF	-----	-----	-----	-----	-----	1
	FILLER	SIZE	-----	-----	-----	-----	-----	297
			-----	-----	-----	-----	-----	1/2" & 3/4"

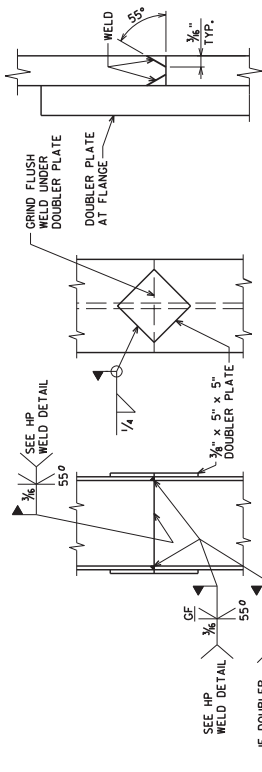
**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.  
 BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.  
 ALL REINFORCEMENT SHALL BE IDENTIFIED BY BAR NO. AND THE FIRST JOINT OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.  
 TWO JOINTS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.A.T.O. DESIGNATION M 153, TYPE 1, 11 OR 111 OR A.A.S.A.T.O. DESIGNATION M 213.  
 ALL REINFORCEMENT SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.  
 SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBGRADE UNLESS AN ALTERNATIVE METHOD IS APPROVED BY THE ENGINEER.  
 B-53-386 SHALL BE THE EXISTING GROUNDLINE.  
 THE EXISTING STRUCTURE, B-53-11, TO BE REMOVED, IS A 127.6-FOOT LONG THREE SPAN STEEL DECK BRIDGE ON OPEN CONCRETE ABUTMENTS WITH CLEAR SPAN LENGTHS OF 100 FEET AND 100 FEET.  
 THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. "BACKFILL STRUCTURE TYPE B" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. QUANTITIES SHOWN ARE INCIDENTAL TO EXCAVATION FOR STRUCTURES. PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.  
 BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS NOTED OTHERWISE.  
 EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS SHALL BE ENGINEER APPROVAL. GEOTEXTILE SHALL BE PLACED UNDER THE EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT.  
 CONCRETE POURED UNDERWATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.2 OF THE STANDARD SPECIFICATIONS. CONCRETE POURED UNDERWATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS APPROVED OTHERWISE.  
 REMOVAL OF BELOW GRADE STRUCTURES ARE SHOWN ON PLAN. SUBJECTS, COST OF SUBSTRUCTURE REMOVAL IS CONSIDERED INCIDENTAL TO "REMOVING OLD STRUCTURE" BID ITEM. CASING REQUIRED DURING PRE-BORING OPERATIONS.  
 PILES PLACED IN PRE-BORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING.  
 AT THE BACK FACE OF ABUTMENTS AND AT EXISTING ABUTMENT REMOVAL, THE UNDERWATER CASING CAN BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE. SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.



**FLASHING DETAIL FOR NEW BRIDGES WITH OPEN RAILING**

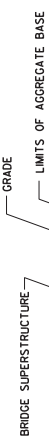
THE BR ITEM "FLASHING STAINLESS STEEL" SHALL INCLUDE PROVIDING AND INSTALLING THE STAINLESS STEEL FLASHING SILICONE CAULK, 3/8" CONCRETE SCREWS AND CLEANING THE EDGE OF THE SLAB PRIOR TO ATTACHMENT OF THE FLASHING. FLASHING TO BE INSTALLED AFTER PROTECTIVE SURFACE TREATMENT APPLICATION.  
 CONCRETE SCREWS SHALL BE 410 STAINLESS STEEL.  
 EXTEND FLASHING TO BACK FACE OF ABUTMENT.  
 TOP OF FLASHING TO BEGIN APPROX. 1-INCH BELOW TOP OF SLAB SURFACE.  
 THE FLASHING IS TO BE A CONSTANT HEIGHT BASED ON THE THINNESS SLAB DEPTH OVER THE BRIDGE LENGTH.



**HP WELD DETAIL**

FLANGE SHOWN, WEB SIMILAR

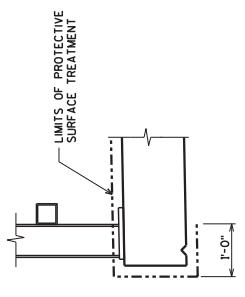
**HP 10 x 42 SPLICE DETAIL**



**BACKFILL STRUCTURE LIMITS THRU ABUTMENT**

BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

PIPE UNDERDRAIN WRAPPED 6-INCH, SLOPE 0.5% SHALL BE INSTALLED AS DETAILED ON SHEET 6.



**PROTECTIVE SURFACE TREATMENT DETAIL**

NO. DATE	REVISION	BY
1/26/21	ADDENDUM FOR PIER PILES	DNS

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
**STRUCTURE B-53-386**  
 DRAWN BY: JLS  
 CHECKED BY: JLB

**QUANTITIES AND NOTES**

SHEET 2 OF 15  
**42**

ORIGINAL PLANS PREPARED BY  
 3433 Oakwood Hills Parkway  
 Wauwatosa, WI 53222  
 www.avresassociates.com

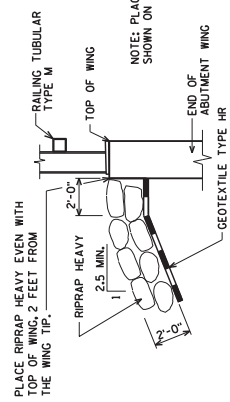


07/26/2021



Addendum No. 01  
 ID 3653-00-70  
 Revised Sheet 42  
 July 27, 2021

**TYPICAL FILL SECTION AT WING TIPS**



NOTE: PLACE RIPRAP HEAVY AS SHOWN ON GENERAL PLAN SHEET

PLACE RIPRAP HEAVY EVEN WITH TOP OF WING, 2 FEET FROM THE WING TIP.

"GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH.



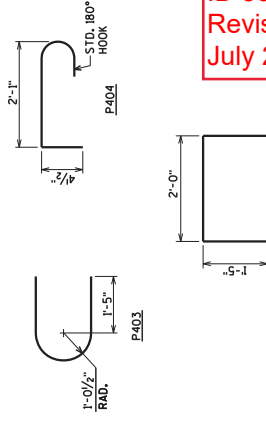
STATE PROJECT NUMBER

3653-00-70

**BILL OF BARS**

BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BAR SERIES	LOCATION
P501	60# COATED	66	18'-4"			COLUMN VERT.
P402	2,650# UNCOATED	40	29'-0"			COLUMN HORIZ.
P403		40	6'-1"	X		COLUMN HORIZ.
P404		200	2'-10"	X		COLUMN TIES
P505		16	4'-7"	X		COLUMN TOP
P506		30	2'-0"			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



Addendum No. 01  
ID 3653-00-70  
Revised Sheet 50  
July 27, 2021



07/27/21

NO.	DATE	REVISION	DNS
1	7/26/21	ADDENDUM FOR PIER PILES	

BY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

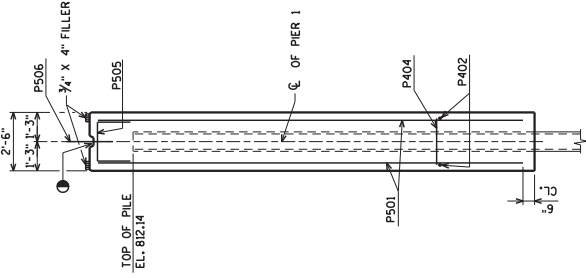
STRUCTURE B-53-386

ISSUED BY: JLB  
CHECKED BY: JLB

SHEET 10 OF 15

PIER 1

50



**SECTION A**

P506 BARS MAY BE USED FOR PIER PILING IF CONCRETE IS POURED BUT BEFORE CONCRETE HAS SET. IMBED BARS 1'-0".

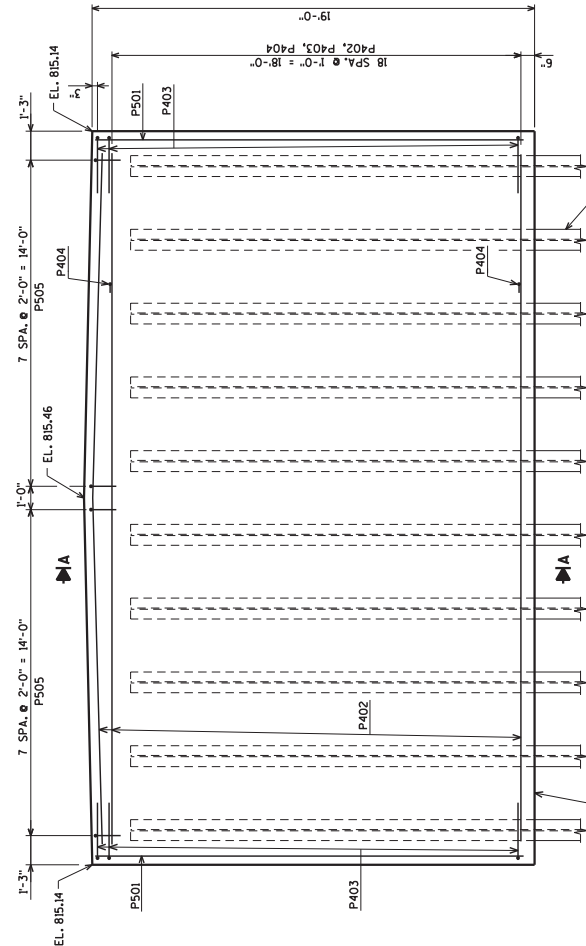
KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

FOR PILE SPLICE DETAIL SEE SHEET 2.

E.F. DENOTES EACH FACE

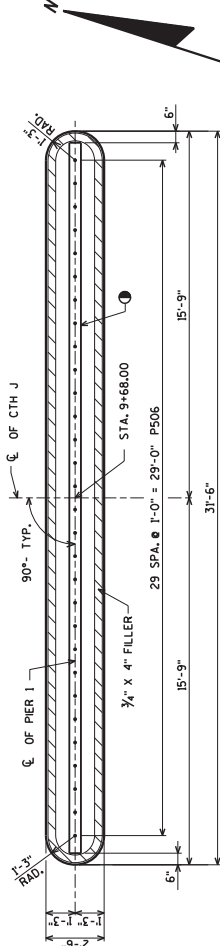
ORIGINAL PLANS PREPARED BY  
3433 Oakwood Hills Parkway  
Cedar Rapids, IA 52404  
www.avres.com

**AVRES**

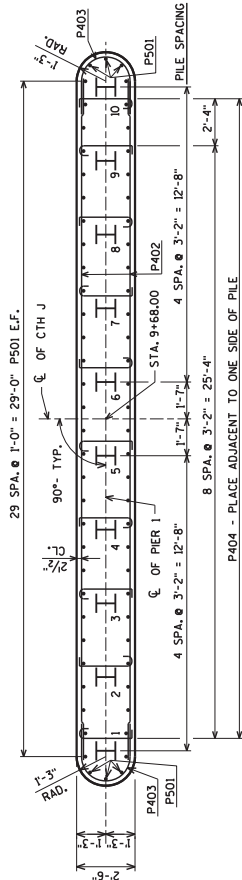


**ELEVATION (LOOKING NORTH)**

PIER TO BE SUPPORTED ON HP 10 X 42 STEEL PILING WITH PILE POINTS DRIVEN TO A RECORD-DRAWING RESISTANCE OF 180 TONS PER PILE. ESTIMATED LENGTH 26'-0". PRE-BORE PILING 10'-0".



**PLAN**



**PILE LAYOUT**

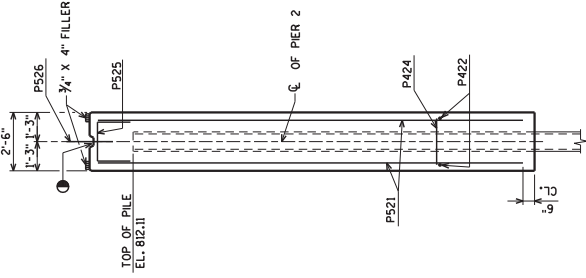
P404 - PLACE ADJACENT TO ONE SIDE OF PILE ALTERNATE THE POSITION OF THE 90° AND 180° HOOKS AT EACH VERTICAL LAYER OF TIES

STATE PROJECT NUMBER  
3653-00-70

**BILL OF BARS**

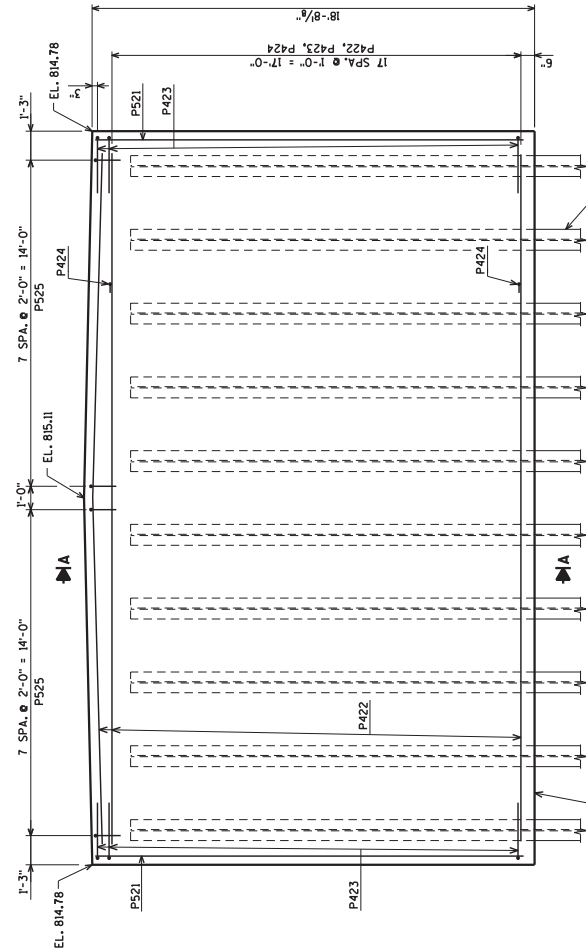
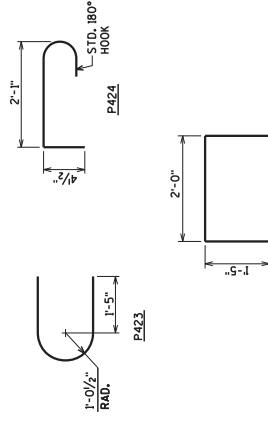
BAR NO.	COATED BAR	NO. REQ'D.	LENGTH	BENT BAR	BAR SERIES	LOCATION
P521	60	18-0	66			COLUMN VERT.
P422	2,570	29-0	38			COLUMN HORIZ.
P423		6-1	38	X		COLUMN HORIZ.
P424		2-10	130	X		COLUMN TIES
P525		4-7	16	X		COLUMN TOP
P526		30	2-0			COLUMN DOWELS

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.



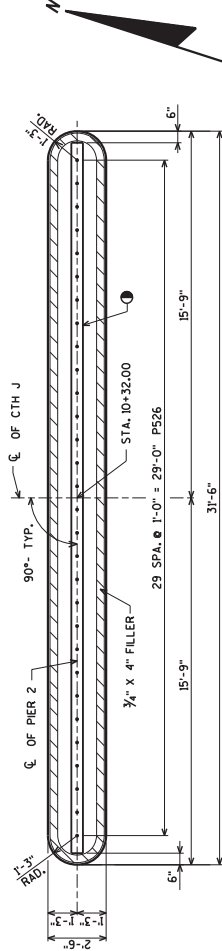
**SECTION A**

P526 BARS MAY BE USED FOR PIER 2 IF CONCRETE IS POURED BEFORE CONCRETE HAS SET. IMBED BARS 1'-0".

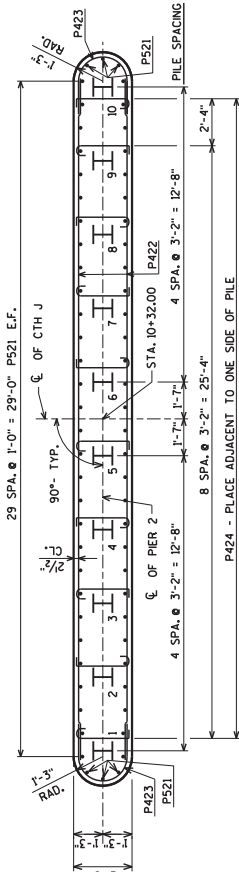


**ELEVATION (LOOKING NORTH)**

PIER TO BE SUPPORTED ON HP 10 X 42 STEEL PILING WITH PILE POINTS DRIVEN TO A RECORD-DRAWING RESISTANCE OF 180 TONS PER PILE. ESTIMATED LENGTH 26'-0". PRE-BORE PILING 10'-0".



**PLAN**



**PILE LAYOUT**



0712121

Addendum No. 01  
ID 3653-00-70  
Revised Sheet 51  
July 27, 2021

NO.	DATE	REVISION	DNS
1	7/26/21	ADDENDUM FOR PIER PILES	

KEYED CONST. JOINT - FORMED BY A BEVELED 2" x 6".

FOR PILE SPLICE DETAIL SEE SHEET 2. E.F. DENOTES EACH FACE

ORIGINAL PLANS PREPARED BY  
3433 Oakwood Hills Parkway  
Cedar Rapids, IA 52404  
www.avresassociates.com



PIER 2

SHEET 11 OF 15

51



## Proposal Schedule of Items

Proposal ID: 20210810003 Project(s): 3653-00-70

Federal ID(s): N/A

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0034	460.5223 HMA Pavement 3 LT 58-28 S	238.000 TON	_____.	_____.
0036	460.5224 HMA Pavement 4 LT 58-28 S	158.000 TON	_____.	_____.
0038	465.0120 Asphaltic Surface Driveways and Field Entrances	5.000 TON	_____.	_____.
0040	502.0100 Concrete Masonry Bridges	529.000 CY	_____.	_____.
0042	502.3200 Protective Surface Treatment	635.000 SY	_____.	_____.
0044	505.0400 Bar Steel Reinforcement HS Structures	9,280.000 LB	_____.	_____.
0046	505.0600 Bar Steel Reinforcement HS Coated Structures	66,020.000 LB	_____.	_____.
0048	513.4061 Railing Tubular Type M	342.000 LF	_____.	_____.
0050	516.0500 Rubberized Membrane Waterproofing	20.000 SY	_____.	_____.
0052	521.1018 Apron Endwalls for Culvert Pipe Steel 18-Inch	2.000 EACH	_____.	_____.
0054	521.1221 Apron Endwalls for Pipe Arch Steel 21x15-Inch	2.000 EACH	_____.	_____.
0056	521.3118 Culvert Pipe Corrugated Steel 18-Inch	36.000 LF	_____.	_____.
0058	521.3721 Pipe Arch Corrugated Steel 21x15-Inch	22.000 LF	_____.	_____.
0060	550.0020 Pre-Boring Rock or Consolidated Materials	200.000 LF	_____.	_____.
0062	550.0500 Pile Points	10.000 EACH	_____.	_____.