

USER: ah2454

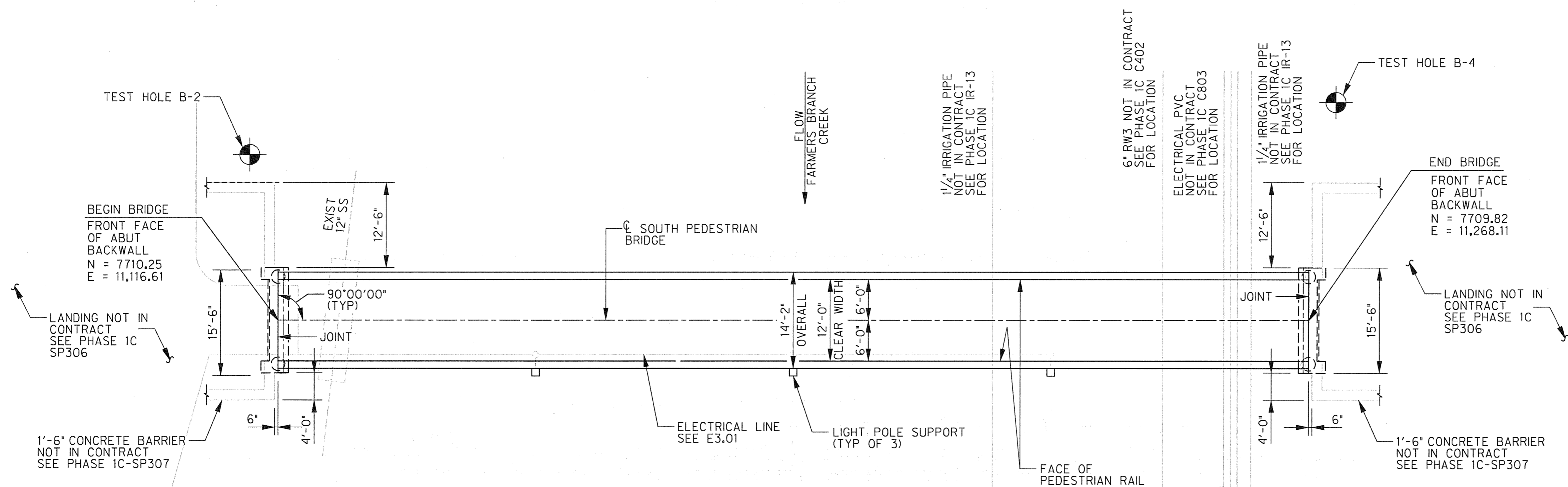
OFFICE: RCH

PROJECT # 27379

FILE: 27379-SC-PEDSOU-BL01.dgn

TIME: 10:57:04 PM

DATE: 4/28/2010



**NOTES:**

1. OVERALL BRIDGE DIMENSION SUBJECT TO CHANGE. DIMENSION BASED ON PREFABRICATED BRIDGE DESIGN.

**DESIGN NOTES:**

1. BRIDGE DESIGNED FOR PEDESTRIAN LOADING ONLY. LL = 85 PSF
2. TEST HOLE DATA PROVIDED BY GEOTEL ENGINEERING, INC. REPORT No. E08-130 DATED MARCH 6, 2008. TEST HOLE LOCATIONS ARE APPROXIMATE.
3. CONTRACTOR SHALL LOCATE ALL UTILITIES AND INFORM THE ENGINEER IN WRITING OF ANY CONFLICTS PRIOR TO BEGINNING CONSTRUCTION.
4. DESIGN LOADS (ESTIMATES FROM BRIDGE MANUFACTURER): HORIZONTAL ABUTMENT REACTION = 21,53K VERTICAL ABUTMENT REACTION = 98,06K
5. CONTRACTOR TO VERIFY ABUTMENT BACKWALL TO ABUTMENT BACKWALL LENGTH WITH BRIDGE MANUFACTURER.
6. MODIFIED LANDING DIMENSIONS SHOWN IN PLAN VIEW. REFER TO PHASE 1C - SP306 FOR OTHER LANDING DIMENSIONS
7. LIGHT POLE SUPPORTS SHALL BE LOCATED ON VERTICAL TRUSS MEMBERS AT APPROXIMATE BRIDGE QUARTER POINTS. TOP OF SUPPORT SHALL BE AT THE SAME ELEVATION AS THE TOP OF DECKING. EXACT LOCATION TO BE CONFIRMED IN SHOP DRAWING.

**FOUNDATION NOTES:**

1. ALL DRILLED SHAFTS AT ABUTMENTS ARE DESIGNED FOR COMBINED SKIN FRICTION AND POINT BEARING.
2. FOUND DRILLED SHAFTS AT THE DEPTHS SHOWN OR DEEPER AS NECESSARY TO PENETRATE DARK SHALE A MINIMUM OF 8'-0\"/>

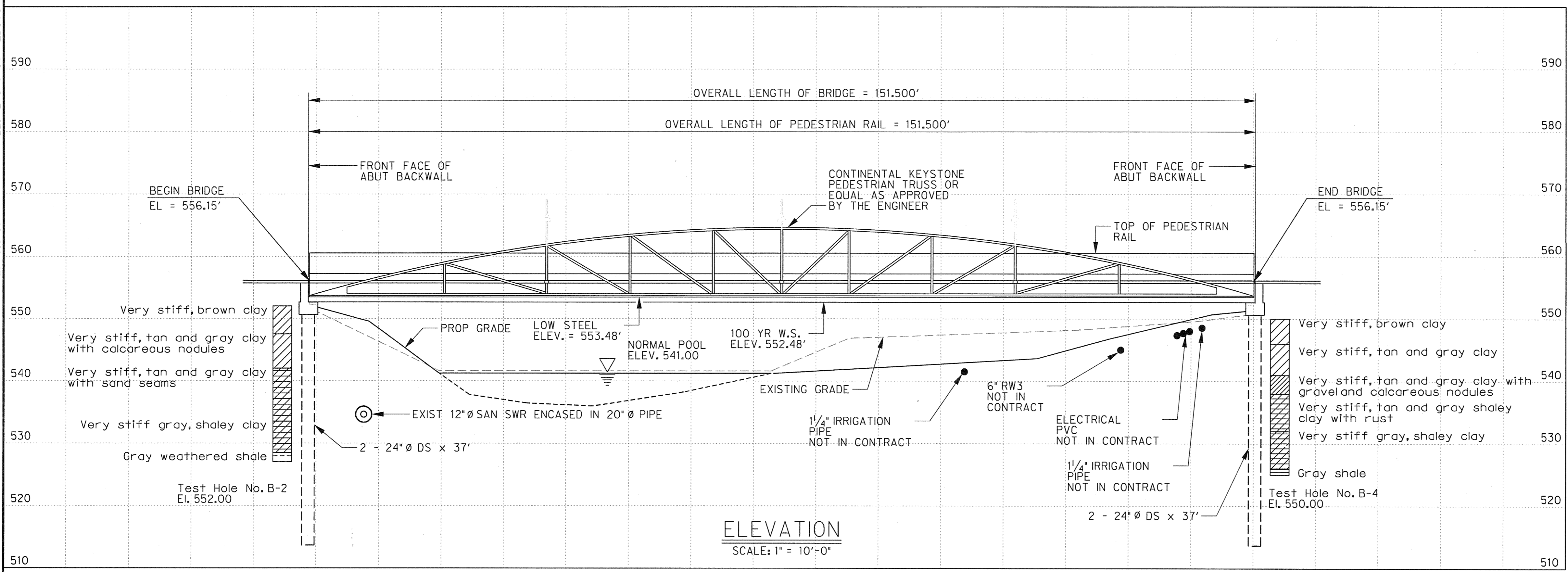
**PLAN**  
SCALE: 1" = 10'-0"

**FARMERS BRANCH CREEK  
HYDRAULIC DATA**

100 YEAR FLOOD (PROPOSED)  
Q = 8,944 cfs  
V = 9.11 fps  
HW = 552.48'



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ERIC S. CHRISTIANSEN, P.E. #85412 ON 04-29-2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS, 75081. TYPE FIRM #7-312.



**ELEVATION**  
SCALE: 1" = 10'-0"

NO.	REVISION	BY	DATE

**ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS**

**VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN BRIDGE**

**BRIDGE LAYOUT PLAN AND ELEVATION**

**HALFF** 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275  
TEL (214) 346-6200 FAX (214) 738-0095



PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S3-01

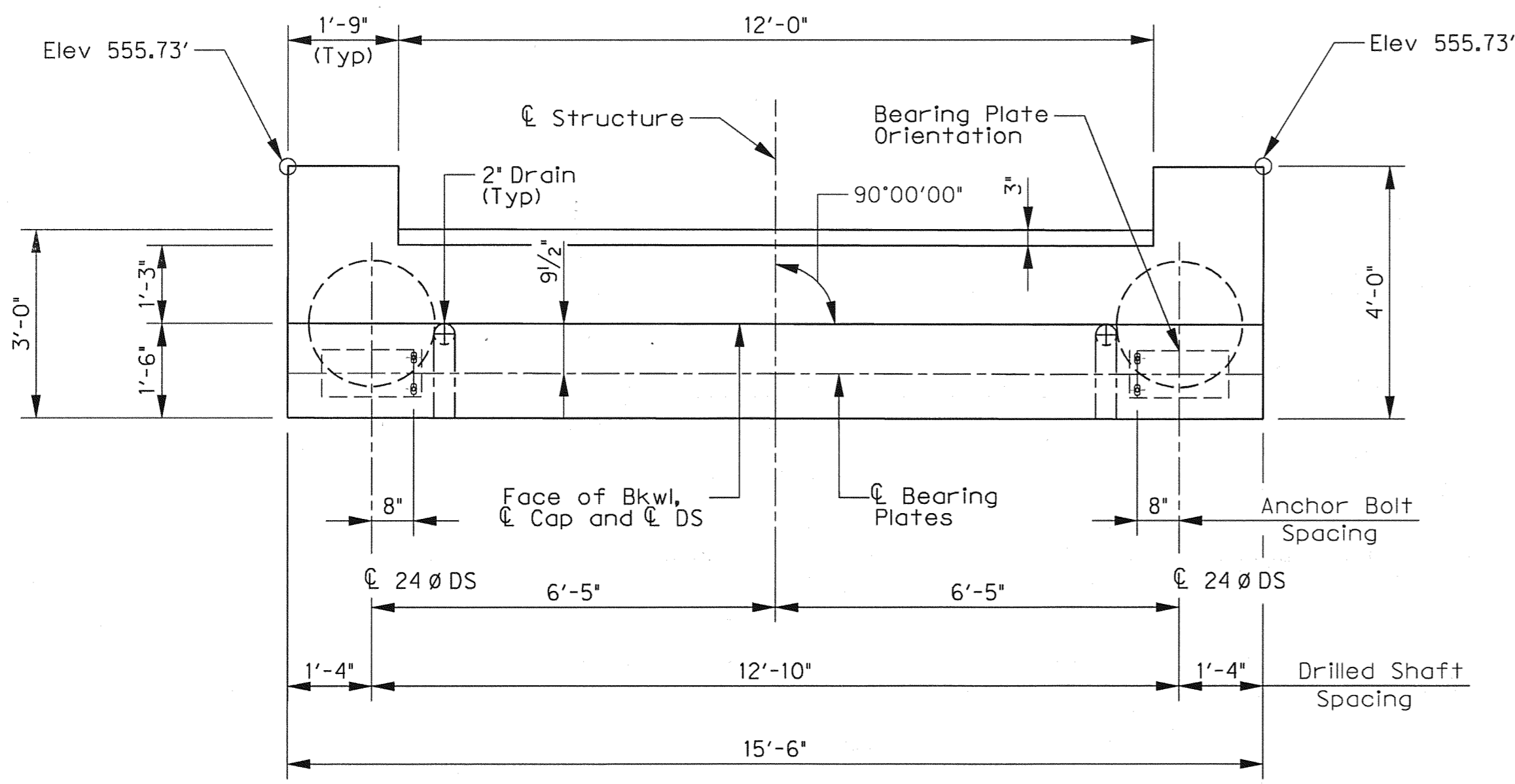
SUMMARY OF ESTIMATED STRUCTURAL QUANTITIES - SOUTHERN PEDESTRIAN BRIDGE					
BRIDGE ELEMENT	BASE BID ITEM NO.	66	67	68	69
	TXDOT SPEC NO.	416	420	427	
DESCRIPTION		DRILL SHAFT 24" DIA	CL "C" CONC (ABUT)	OPAQUE SEALER FINISH (ABUT)	CONTINENTAL KEYSTONE PEDESTRIAN BRIDGE (OR EQUAL)
		LF	CY	SF	EA
2 ~ ABUTMENTS		148	12.4	188.0	
1 ~ PREFABRICATED BRIDGE					1
TOTAL		148	12.4	188.0	1



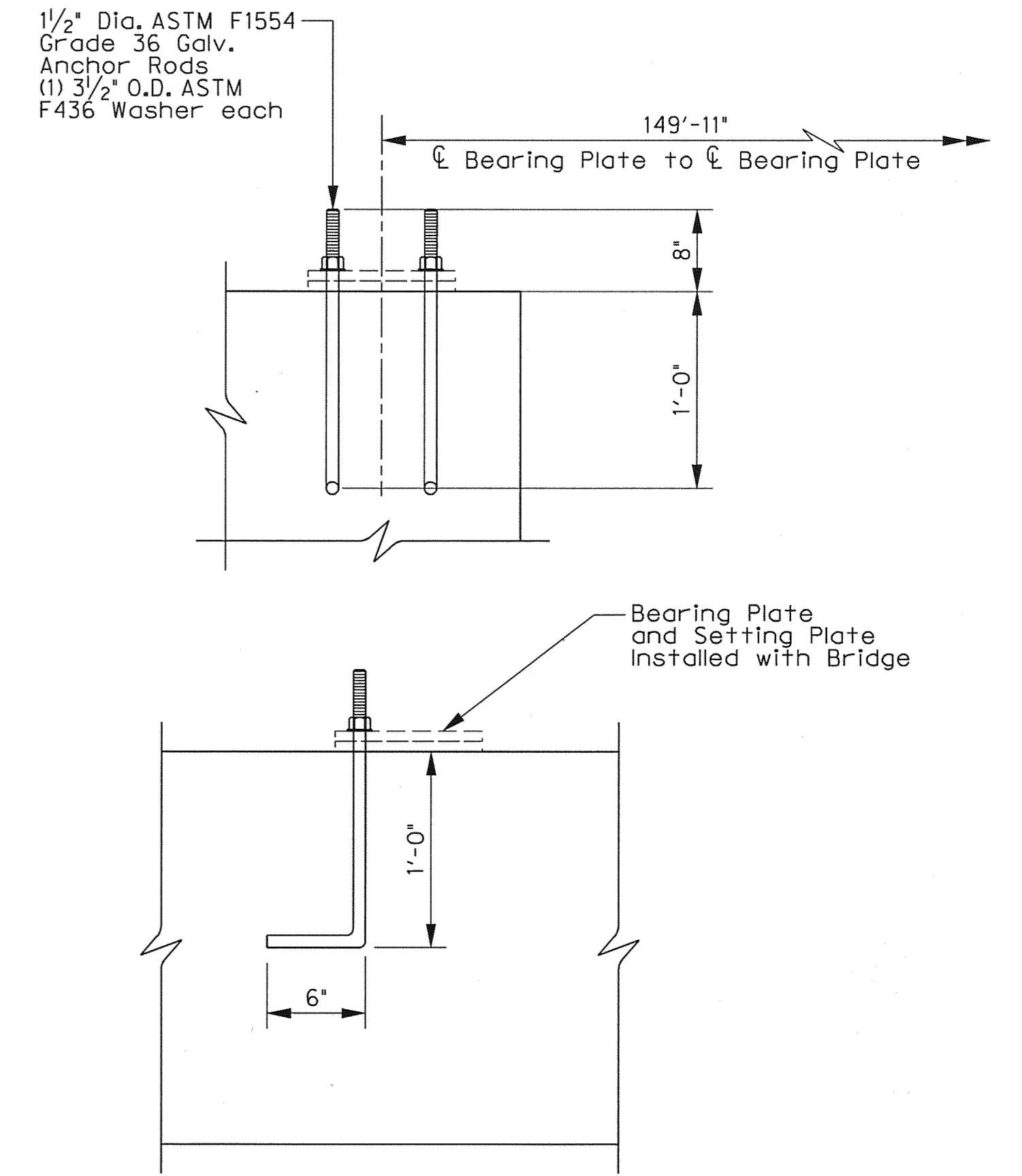
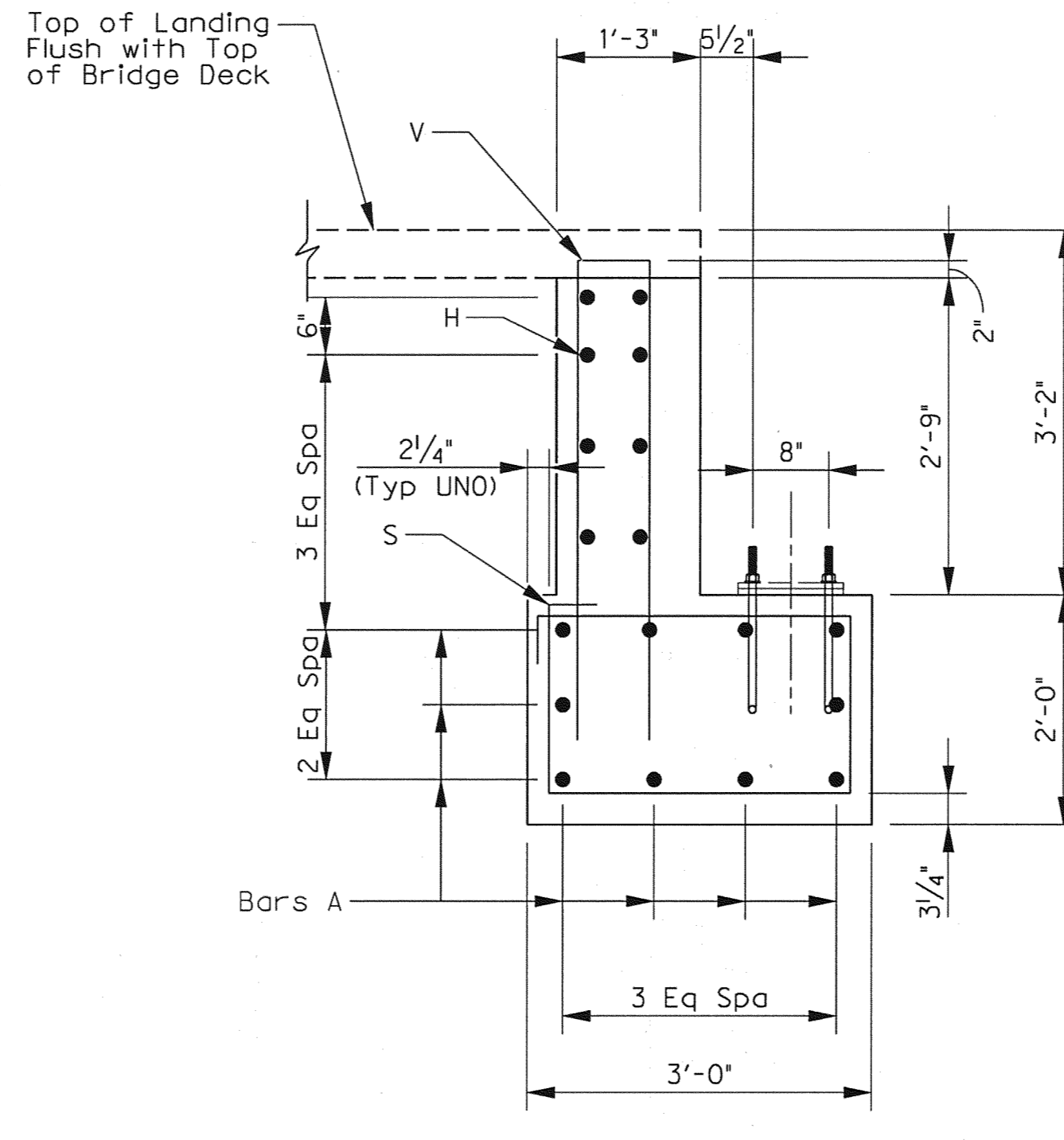
04-29-10

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NO.	REVISION	BY	DATE
 <b>TOWN OF ADDISON</b> DALLAS COUNTY, TEXAS			
<b>VITRUVIAN PARK BRIDGES</b> SOUTHERN PEDESTRIAN BRIDGE			
<b>ESTIMATED QUANTITIES</b>			
 <b>HALFF</b>			
<small>1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0065</small>			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S3-02		

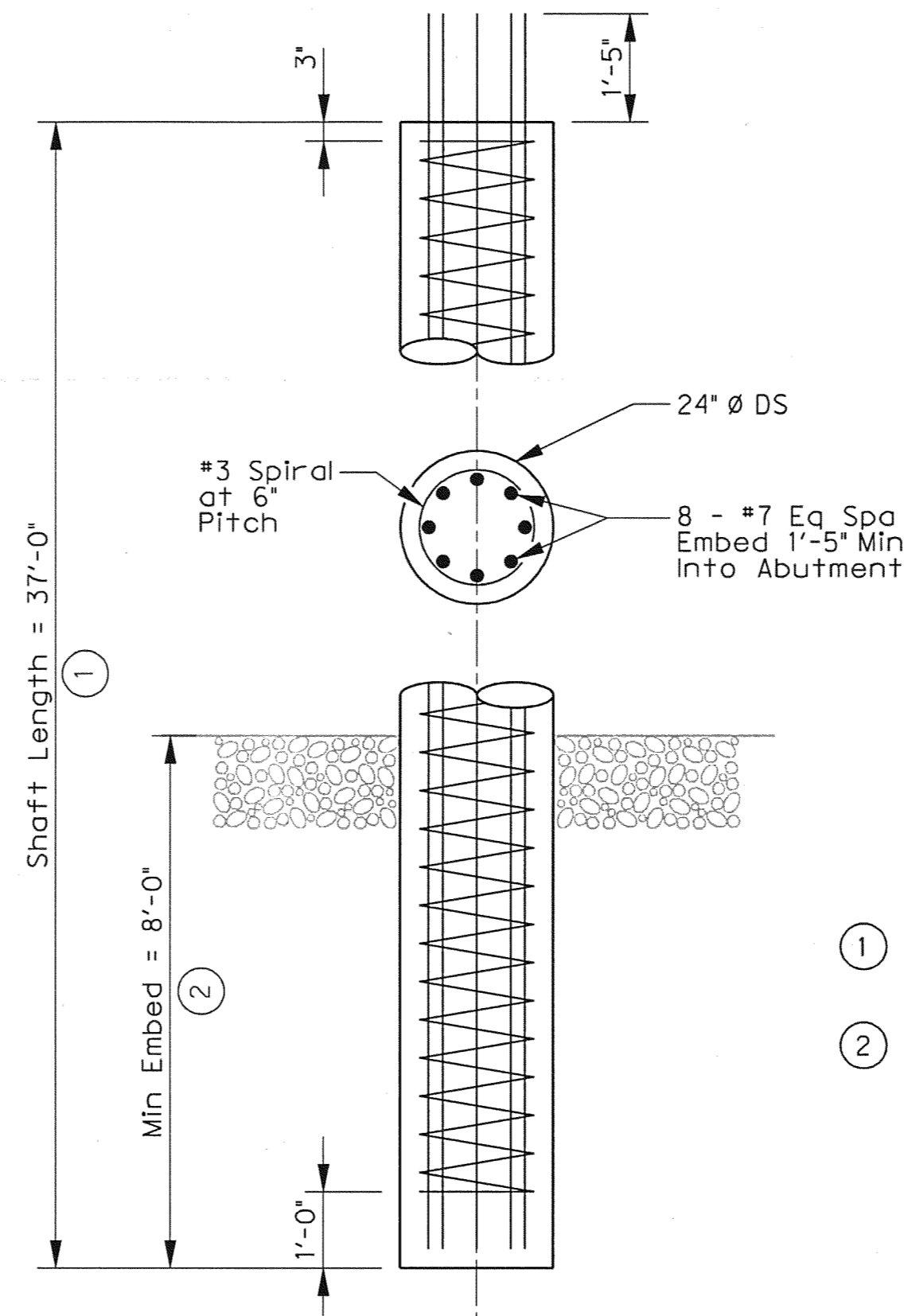
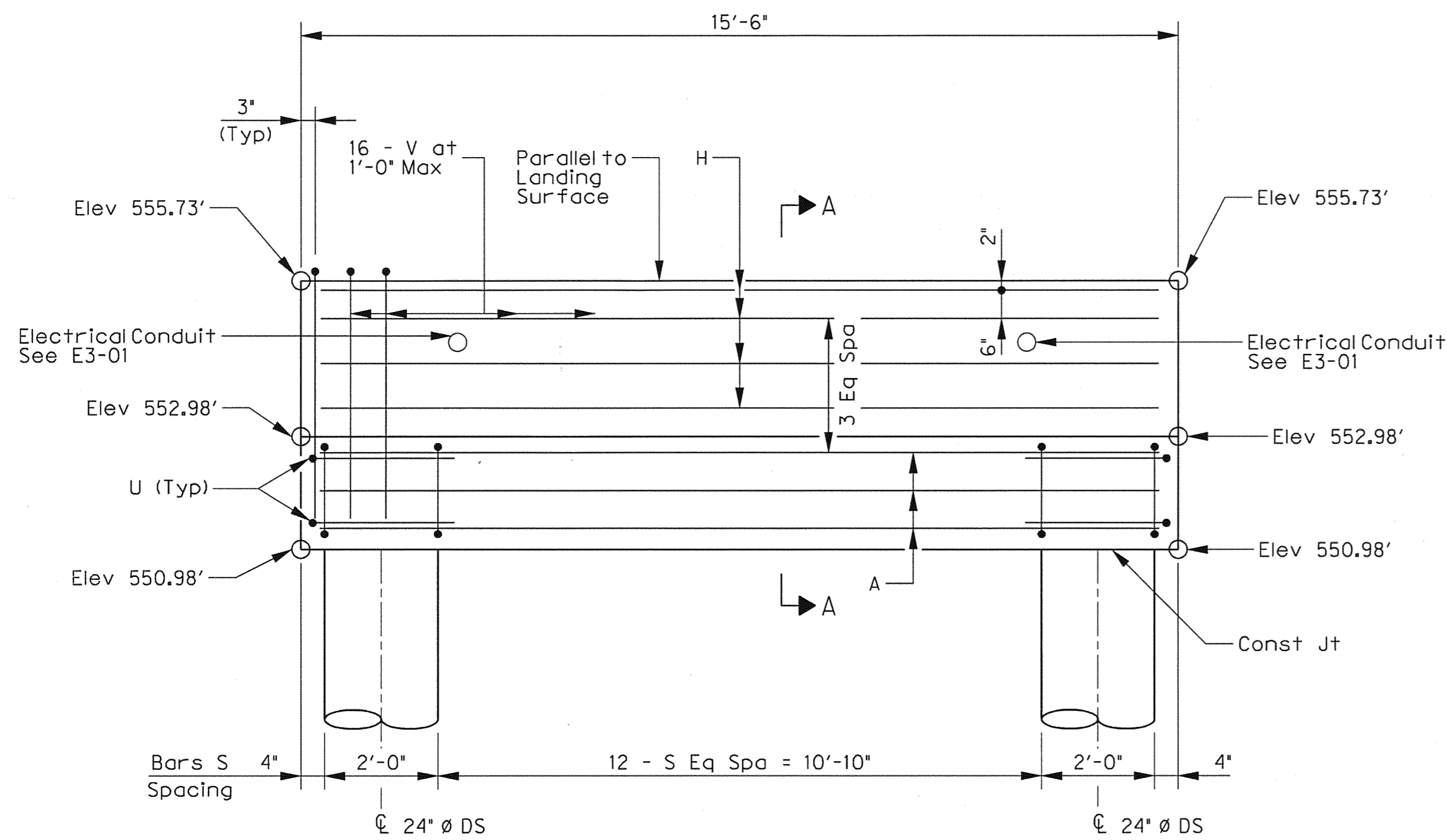


Note: Slope top of Abutment Cap from edges toward 2" Drain Pipes. Provide flat surface under bearing plate location.



ANCHOR BOLT DETAILS

- NOTES:
1. Abutment dimensions and anchor rod locations are to be coordinated with bridge manufacturer prior to construction. Abutment dimensions shown are per detail provided by CONTECH for Keystone Pedestrian Truss Bridge.
  2. Anchor Rods and Washers to be subsidiary to the concrete Abutment.

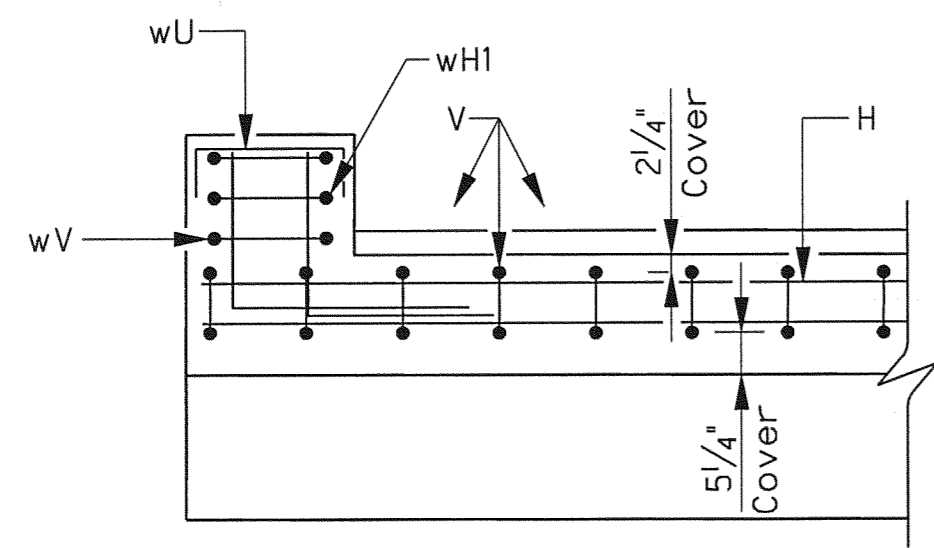


- ① Length of Drilled Shafts for Contractor's Information only.
- ② Drill Shafts to the depth shown or deeper, as necessary, to Penetrate Gray Shale to Min Embed.

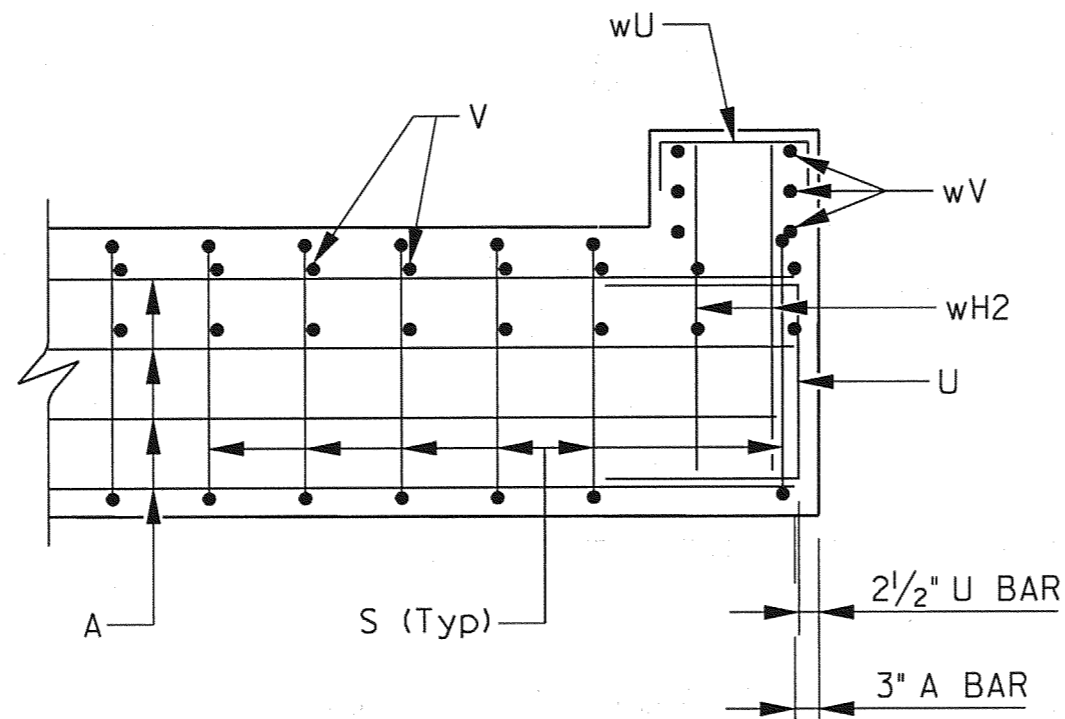


<p>04-29-10</p> <p>THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY ERIC S. CHRISTENSEN, P.E. #8412 ON 04-29-2010. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS. TSO01, TYPE, FIRM #7-312.</p>					
NO.	REVISION	BY	DATE		
<p><b>ADDISON</b> TOWN OF ADDISON DALLAS COUNTY, TEXAS</p> <p>VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN BRIDGE</p> <p>ABUTMENT PLAN ELEVATION AND DETAILS</p>					
<p><b>HALFF</b> 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095</p>					
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
27379	ESC	AHH	APRIL 2010	-	S3-03



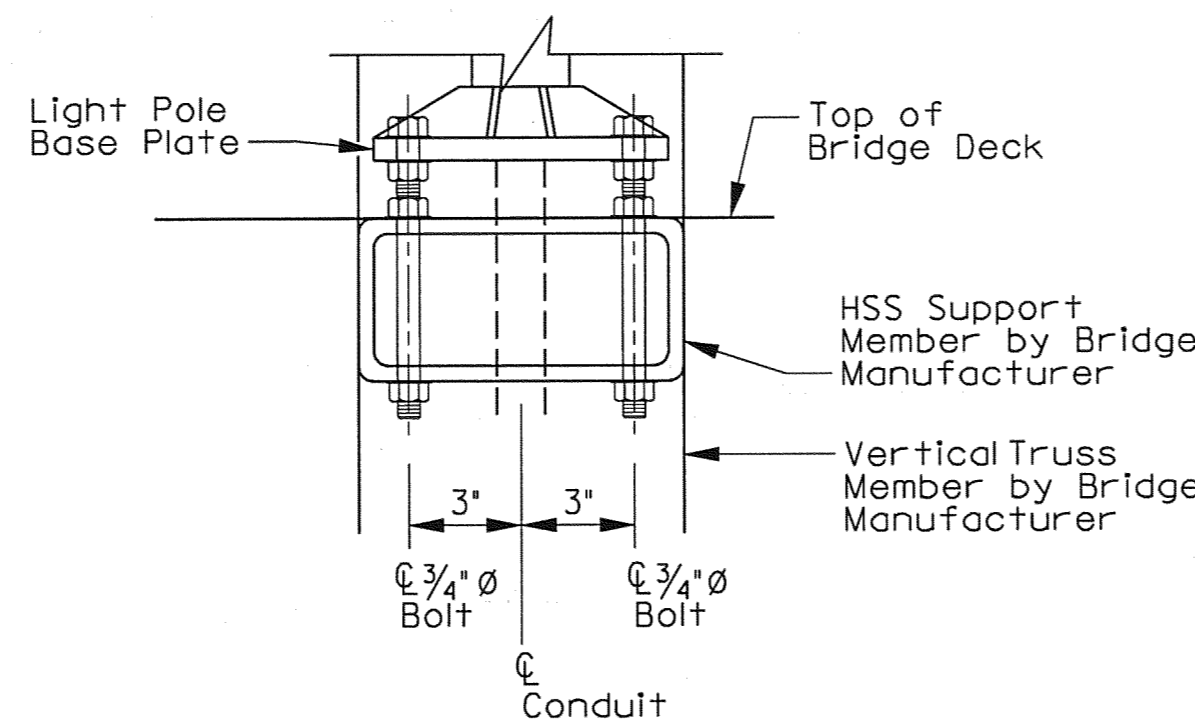


BACKWALL

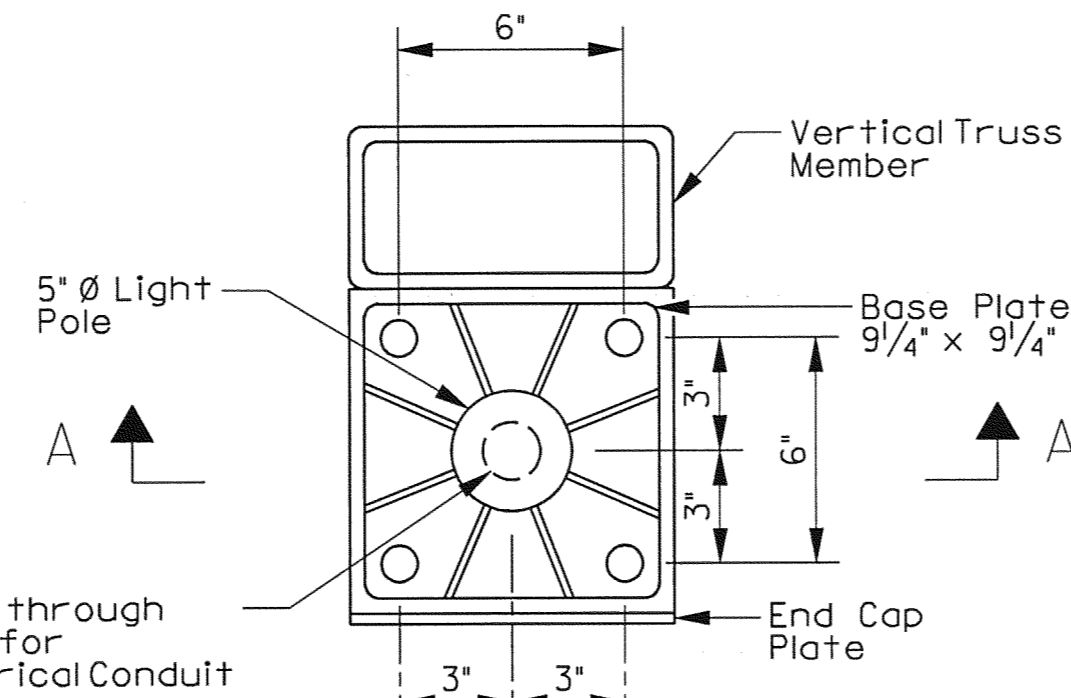


CAP

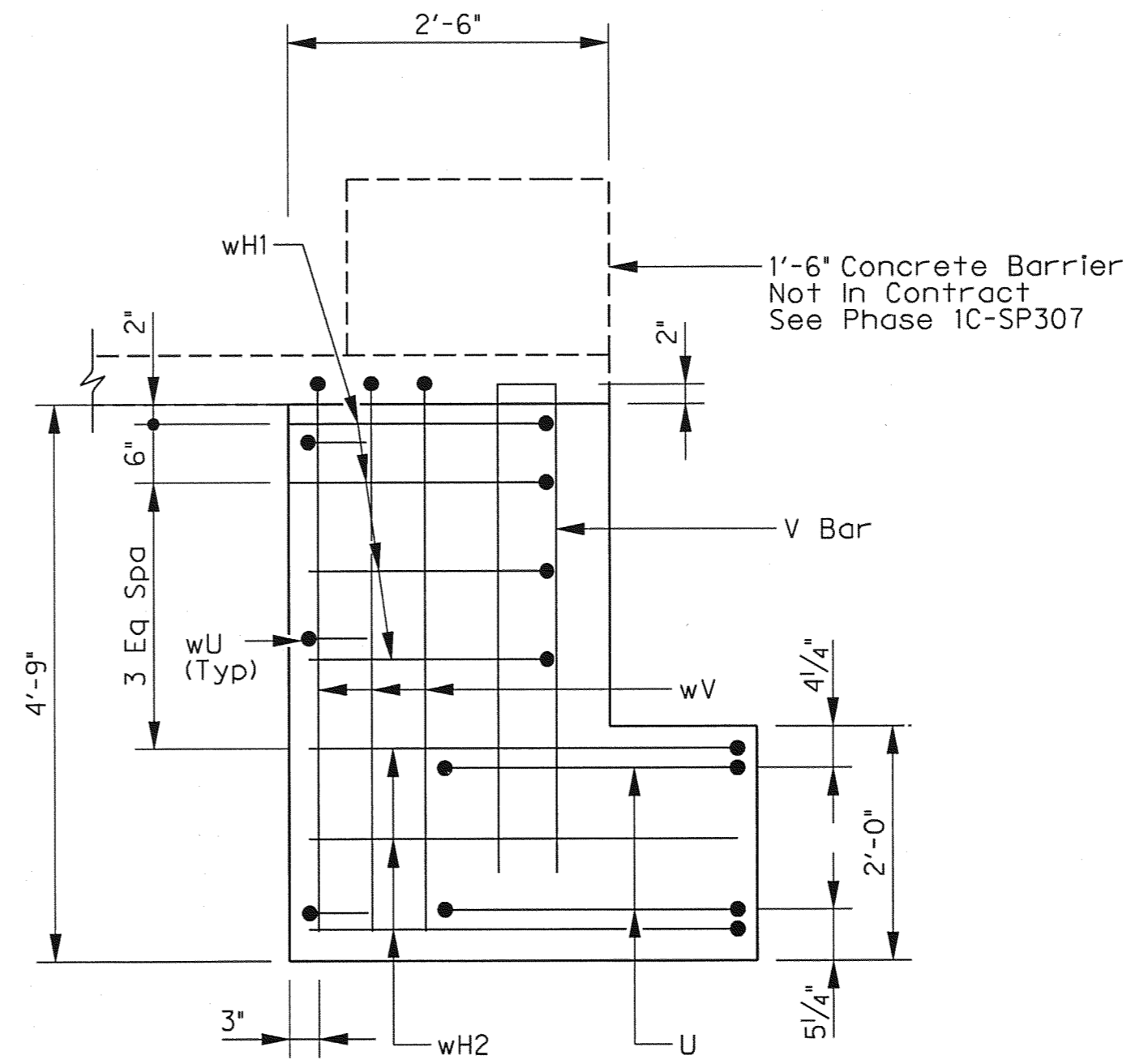
CORNER DETAILS  
SCALE: 1/2" = 1'-0"



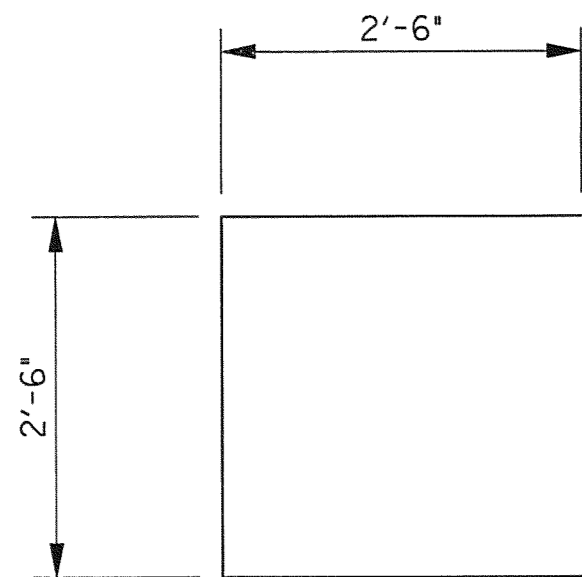
SECTION A-A



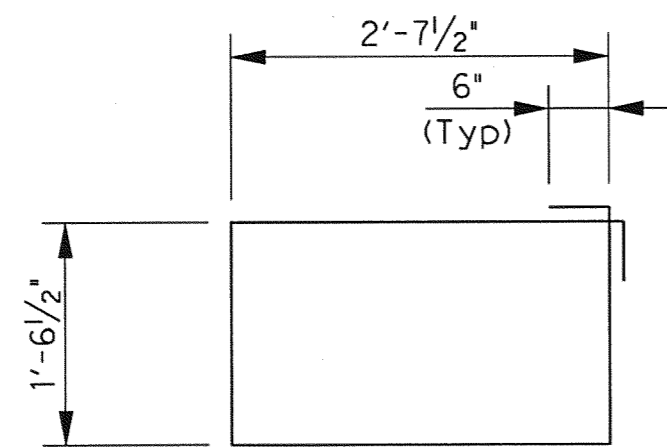
POLE SUPPORT DETAIL  
NOT TO SCALE



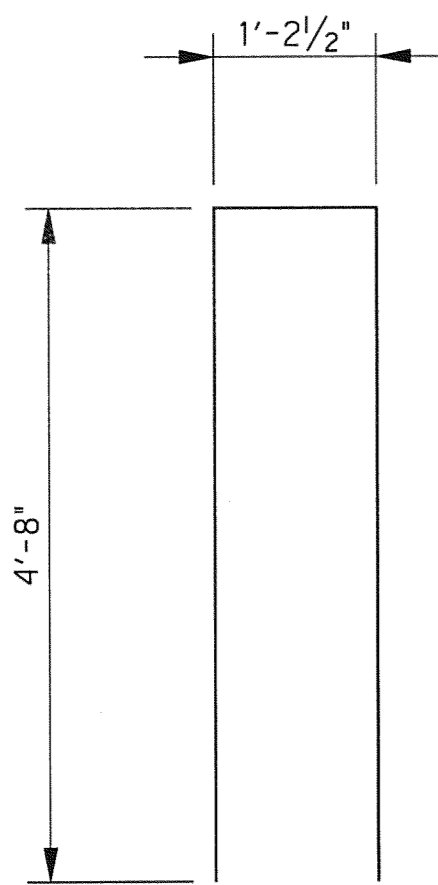
WINGWALL ELEVATION  
SCALE: 3/4" = 1'-0"



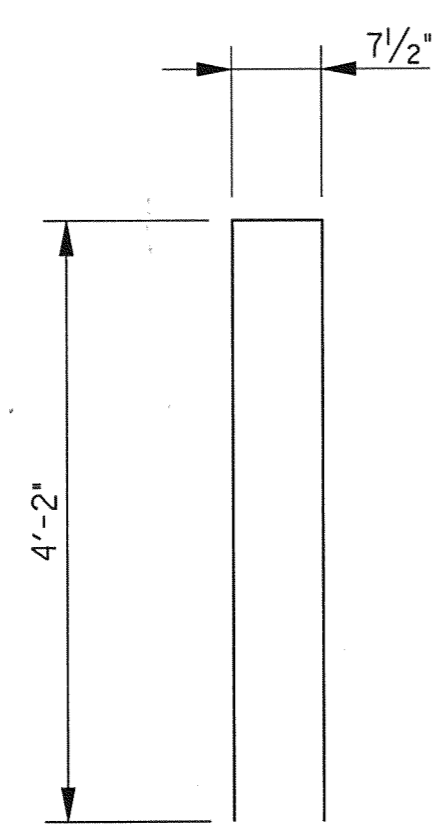
BARS U



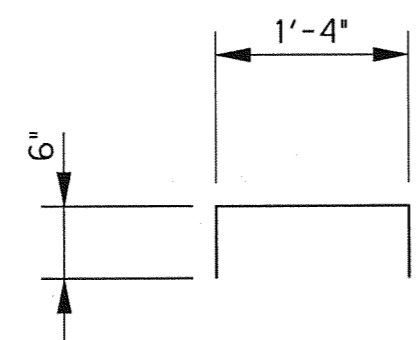
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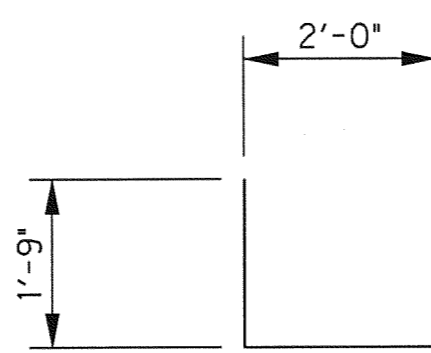
BARS WV



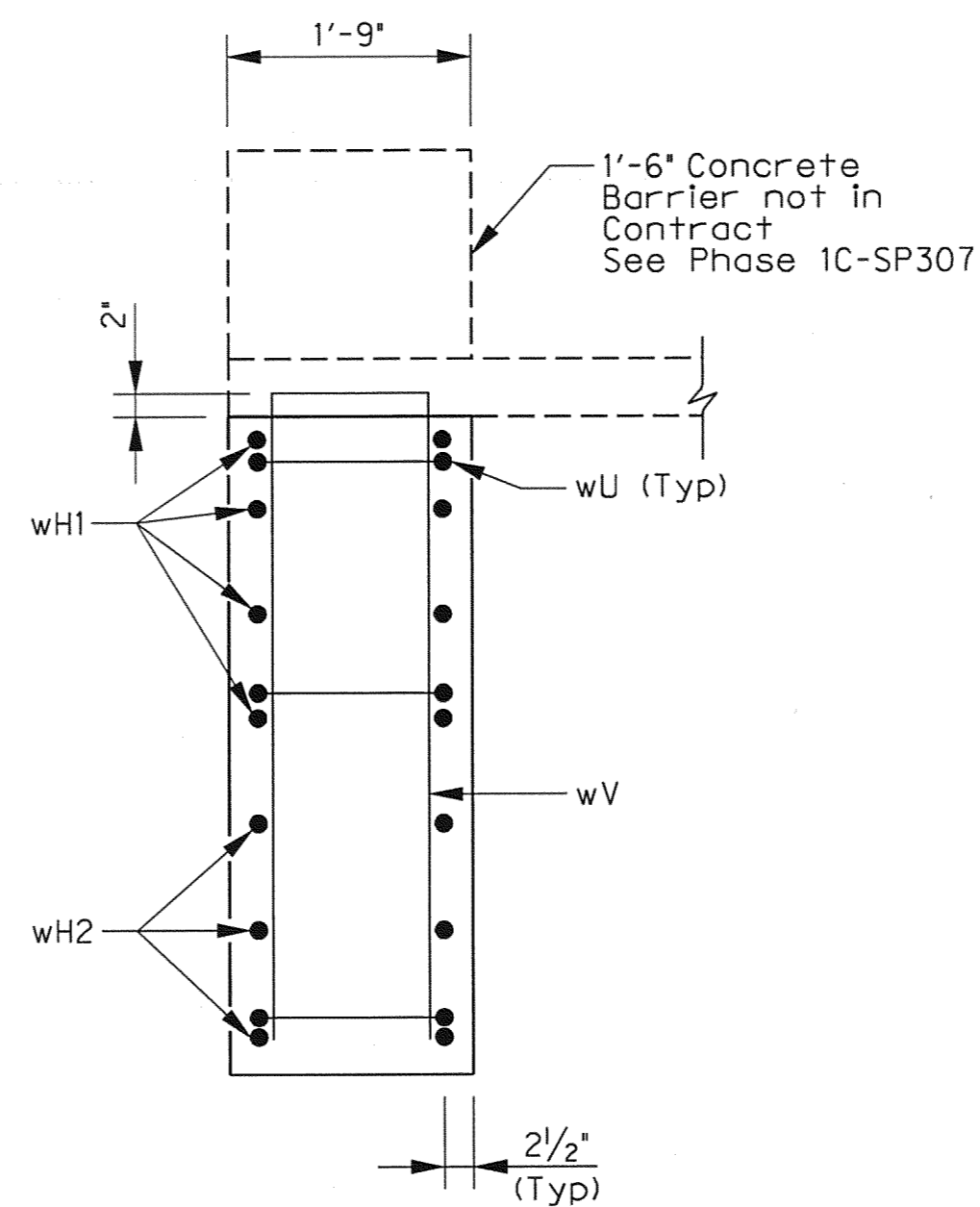
BARS V



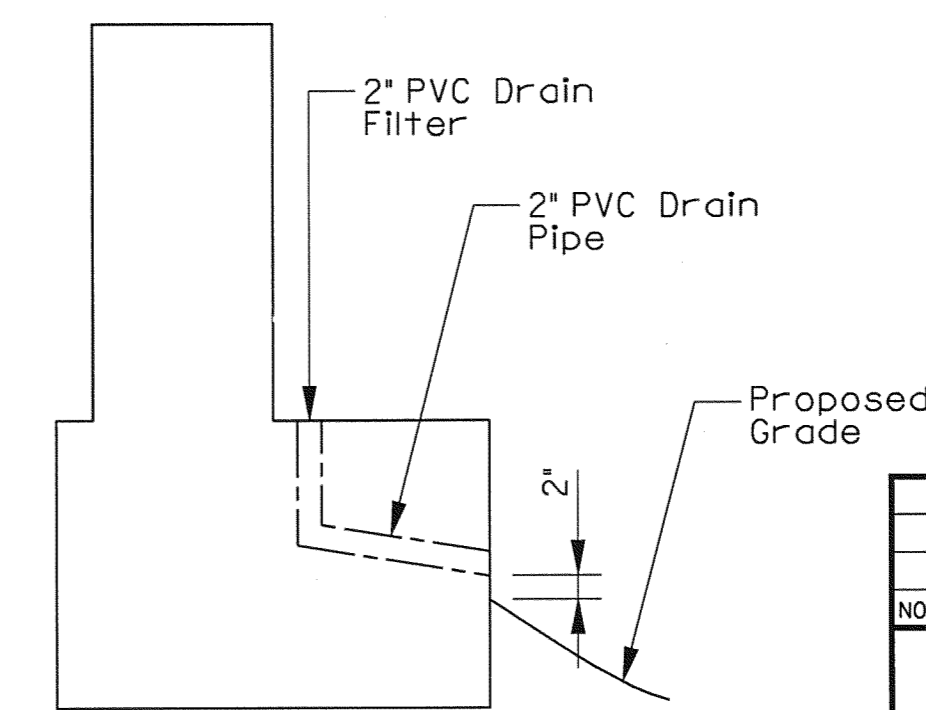
BARS WU



BARS WH1



WINGWALL SECTION  
SCALE: 3/4" = 1'-0"



DRAIN DETAIL

NOTE: Slope top of abutment cap from edges toward 2" Drain Pipes.

BAR SCHEDULE ~ ONE CAP

Bar	Type	No.	Size	Length	Weight	
A	S+	10	#10	15'-0"	646	
H	S+	8	#5	15'-2"	127	
S	B+	15	#5	9'-4"	147	
V	B+	16	#5	8'-11 1/2"	150	
U	B+	4	#6	7'-6"	46	
wH1	B+	12	#6	3'-9"	91	
wH2	S+	12	#6	3'-6"	64	
wU	B+	6	#4	2'-4"	10	
wV	S+	6	#6	10'-6 1/2"	96	
① Total Reinforcing Steel					LB	1,377
CIC Conc (Abut)					CY	6.2

ESTIMATED QUANTITIES

Item	Unit	QUANTITY
Drilled Shaft (24 IN)	FT	74
CIC Conc (Abut)	CY	6.2
Reinf Steel	LB	1,377

① For Contractor's Information only.

DESIGN NOTES:

- All concrete excluding the landing shall be Class 'C' with a minimum compressive strength of 3600 PSI and coarse aggregate grade No. 2 - 5.
- All reinforcing steel shall be grade 60.
- Quantities shown are for 1 abutment.
- Spiral steel shall have one extra turn at the top, bottom of drilled shafts, and at splices.
- All construction materials and workmanship for abutments shall be in accordance with Texas Department of Transportation 2004 Standard Specifications for Construction of Highways, Streets and Bridges.
- All construction materials & workmanship for the Pedestrian Bridge shall be in accordance with the "Special Specification for Prefabricated Bridge."
- Seal exposed surfaces of abutment with Opaque Sealer Finish.

LIGHT POLE SUPPORT NOTES:

- Support to be designed by bridge Manufacturer.
- Supported fixture is a BEGA 9801 MH on a 1108GP Pole Shortened to 9'-0". Total Structure height = 12'-7". Pole EPA = 3 sq ft BEGA 9801 MH EPA = 2.4 sq ft



NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS VITRUVIAN PARK BRIDGES SOUTHERN PEDESTRIAN BRIDGE ABUTMENT DETAILS			
1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 738-0085			
PROJECT	DESIGN	DRAWN	DATE
27379	ESC	AHH	APRIL 2010
FILE	SHEET		
-	S3-04		