

1. ALL SHEETS ARE 24"x36"
ARCH D PAPER SIZE

BETTER BRIDGES DESIGN TEAM

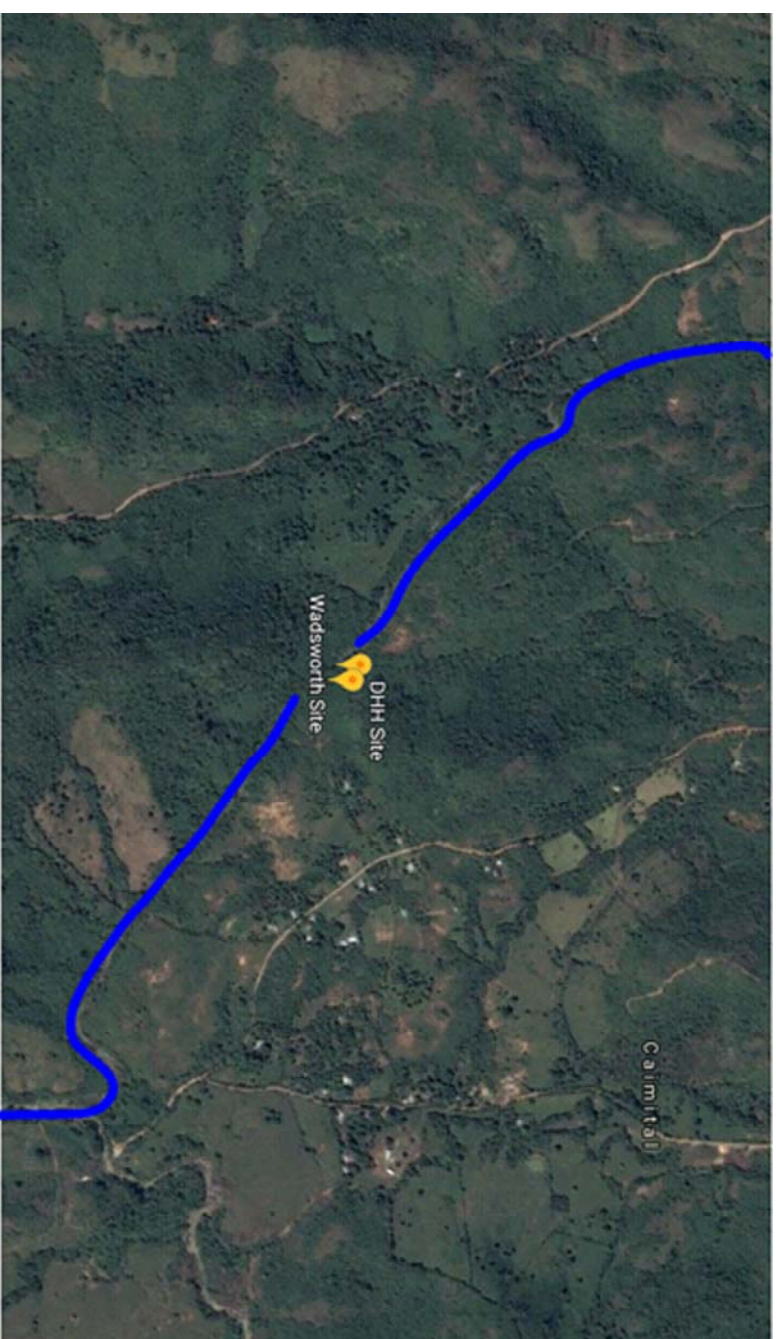
EL HATILLO, PANAMA

EDWARD NEMEC
ANDREW SWANSON
ISABEL VANDERLAAN
MADISON WILSON



DRAWINGS:

1. TITLE
2. PLAN VIEW
3. PROFILE VIEW
4. ANCHOR FORCES
5. SUSPENDER CABLE ASSEMBLY
6. DECK & TOWER DETAILS
7. ANCHOR & FOUNDATION DETAILS



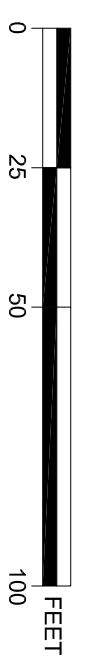
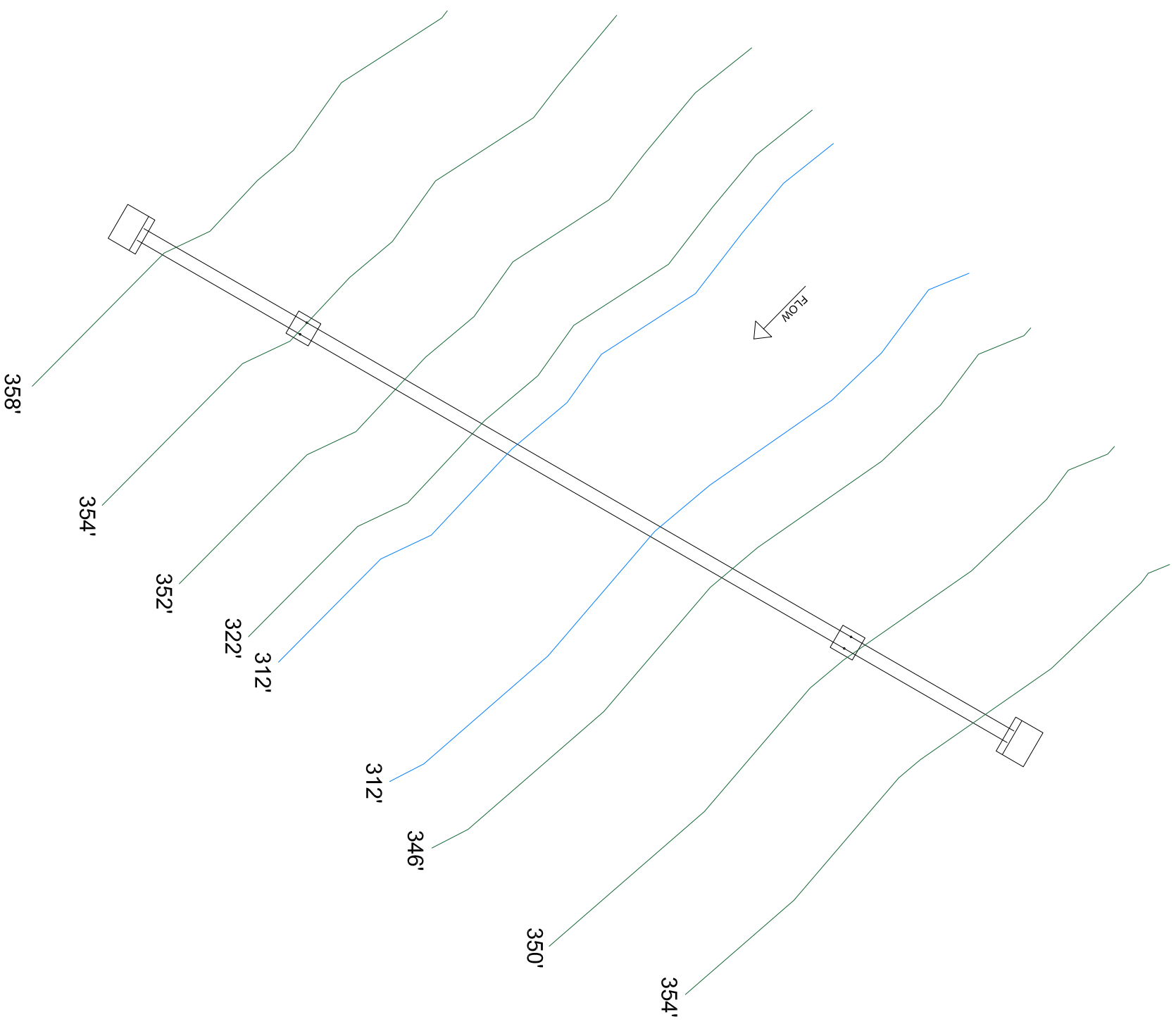
***HAVE ALL DRAWINGS
APPROVED BY A
PROFESSIONAL ENGINEER**

REV.	DESCRIPTION	BY	DATE
STATUS:	FINAL DRAFT		


 Better Bridges
 1400 Townsend Dr.
 Houghton, MI
 715-923-7309

CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE
TEAM:	EDWARD NEMEC ANDREW SWANSON ISABEL VANDERLAAN MADISON WILSON

SITE:	CABUYA RIVER CROSSING		
TITLE:	TITLE		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
PER DETAIL	12/15/17	BBDT	
PROJECT NO.:	DRAWING NO.:	REVISION:	
NA	1	NA	



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STATUS:	FINAL DRAFT		

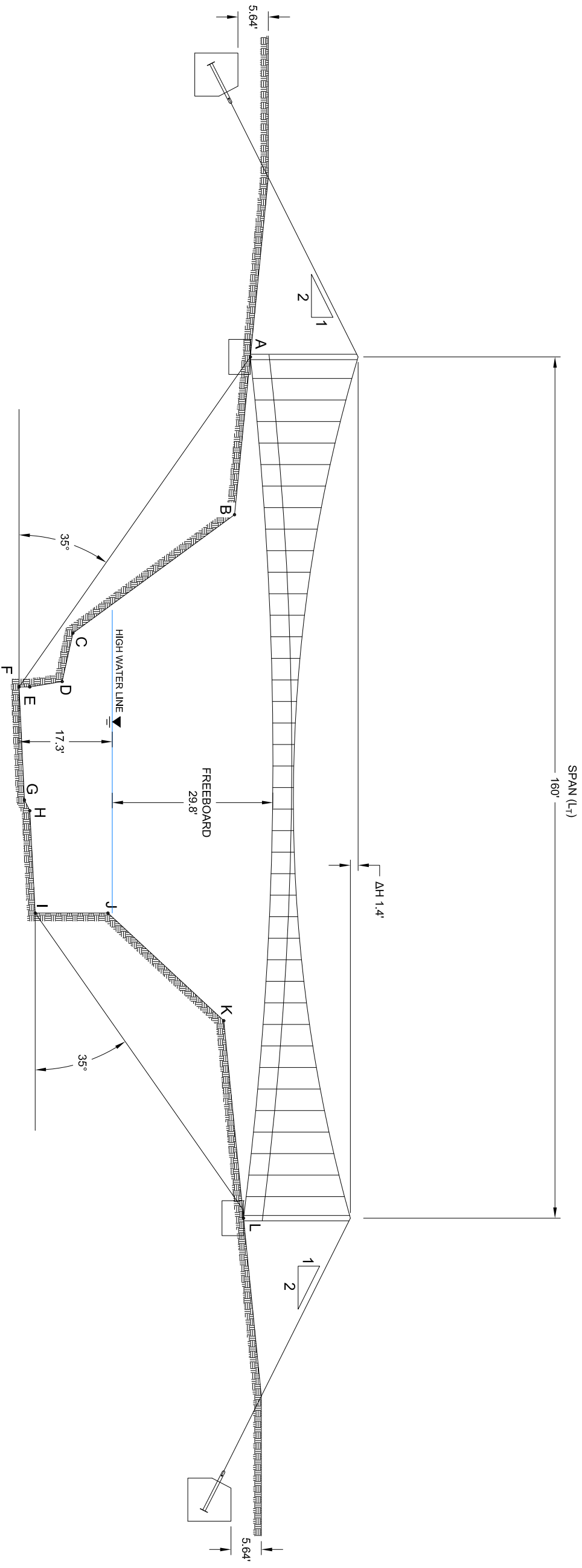


Better Bridges
1400 Townsend Dr.
Houghton, MI
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CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE
TEAM:	EDVARD NEJEC ANDREW SPANSON ISABEL VANDERKAM MADISON WILSON

SITE:	CABUYA RIVER CROSSING		
TITLE:	PLAN VIEW		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
SEE DWG	12/15/17	BBDT	
PROJECT NO.:	DRAWING NO.:	REVISION:	
NA	2	NA	

1. DRAWING NOT TO SCALE



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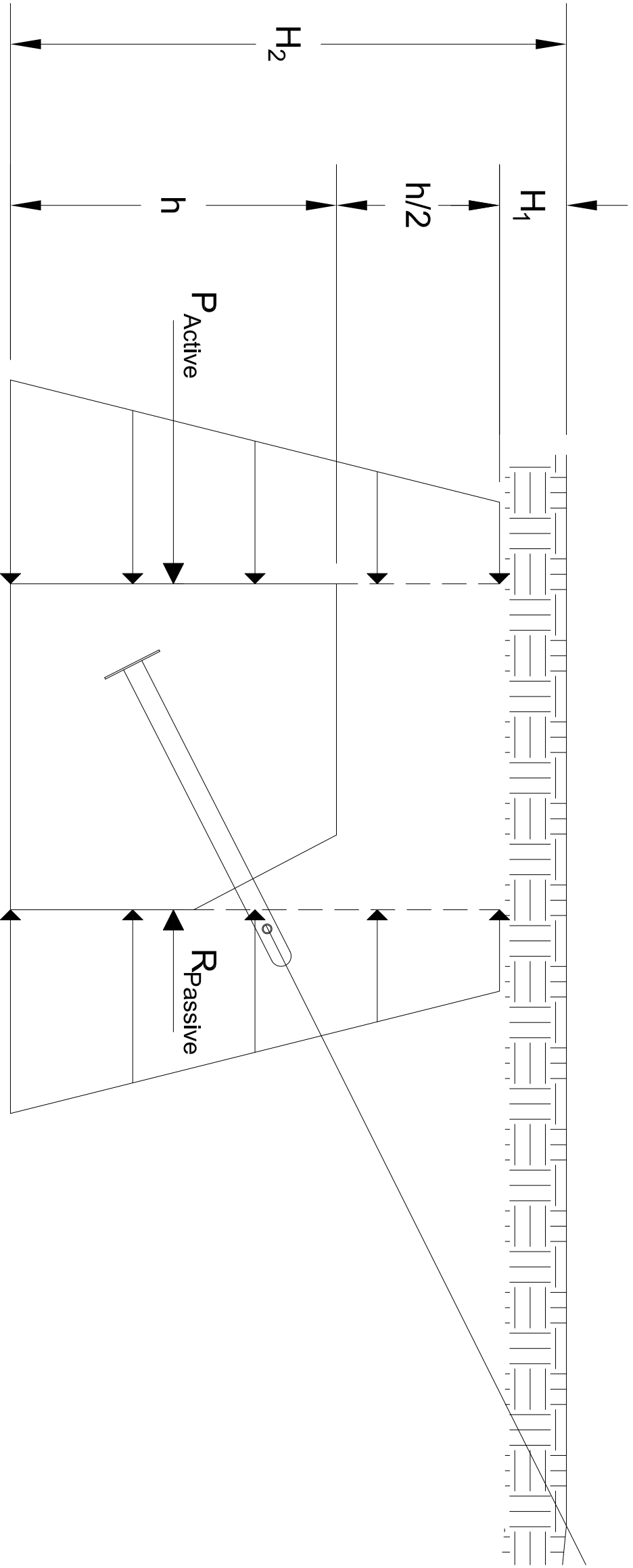
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CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE
TEAM:	EDYARD NEJEC ANDREW SWANSON ISABEL VANDERKAM MADRON WILSON

SITE:	CABUYA RIVER CROSSING
TITLE:	PROFILE VIEW

SCALE AT A1:	DATE:	DESIGN:	CHECKED:
N/S	12/15/17	BBDT	
PROJECT NO.:	DRAWING NO.:	REVISION:	
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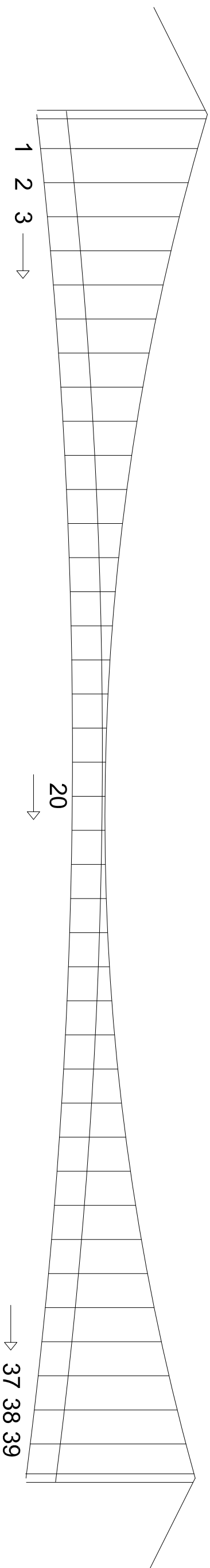
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	FINAL DRAFT		


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CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE
TEAM:	EDVARD NEJEC ANDREW SWANSON ISABEL VANDERKAM MADRON WILSON

SITE:	CABUYA RIVER CROSSING
TITLE:	ANCHOR FORCES

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
PER DETAIL	12/15/17	BBDT	
PROJECT NO.:	DRAWING NO.:		REVISION:
NA	4		NA



Cable # (L->R)	Cable Length (ft)	Length Plus Turnbacks (ft)
1	18.40	19.48
2	16.89	17.97
3	15.47	16.55
4	14.13	15.21
5	12.88	13.96
6	11.70	12.78
7	10.61	11.69
8	9.61	10.69
9	8.68	9.76
10	7.84	8.92
11	7.08	8.16
12	6.40	7.48
13	5.80	6.88
14	5.28	6.36
15	4.84	5.92
16	4.48	5.56
17	4.20	5.28
18	4.00	5.08
19	3.87	4.95
Center: 20	3.83	4.91
21	3.87	4.95
22	3.98	5.06
23	4.18	5.26
24	4.45	5.53
25	4.81	5.89
26	5.24	6.32
27	5.75	6.83
28	6.35	7.43
29	7.02	8.10
30	7.77	8.85
31	8.61	9.69
32	9.52	10.60
33	10.52	11.60
34	11.60	12.68
35	12.76	13.84
36	14.01	15.09
37	15.33	16.41
38	16.75	17.83
39	18.24	19.32
Total	346.75	389.00
NEED 2 OF EACH CABLE LENGTH	693.5 LF	778 LF

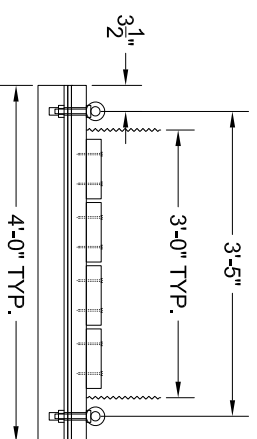
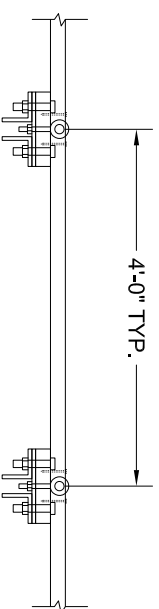
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CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE
TEAM:	EDWARD NEMEC ANDREW SWANSON ISABEL VANDERKAM HANDRON WILSON

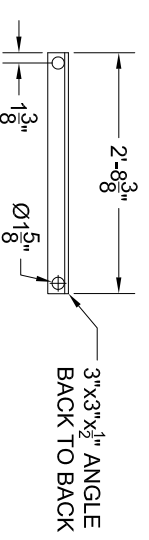
SITE:	CABUYA RIVER CROSSING		
TITLE:	SUSPENDER CABLE ASSEMBLY		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
NIS	12/15/17	BBDT	
PROJECT NO:	DRAWING NO:	REVISION:	
NA	5	NA	



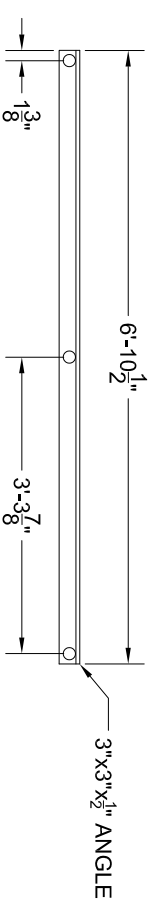
Correct
U-Bolt of All Clamps
on Dead End of Rope

1. CLIP SIZES $1\frac{5}{8}$ " : $\frac{3}{4}$ " & 2"
2. # OF CLIPS FOR $\frac{3}{8}$ " TURNBACK: 2
3. # OF CLIPS FOR $1\frac{5}{8}$ " TURNBACK: 8
4. TURNBACK LENGTH FOR $\frac{3}{8}$ " : $6\frac{1}{2}$ "
5. TURNBACK LENGTH FOR $1\frac{5}{8}$ " : 58"

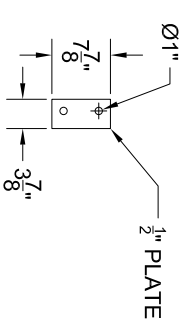
1 DECK SUPPORTS
SCALE: 1" = 1'-0"



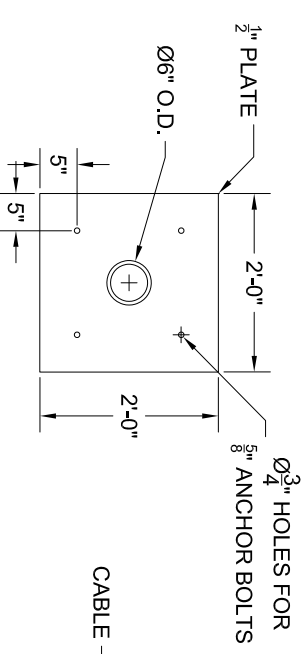
3 TOWER CROSS-BRACING
SCALE: 1" = 1'-0"



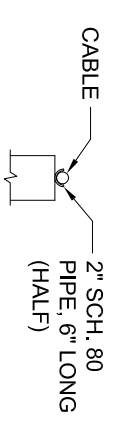
4 TOWER CROSS-BRACING
SCALE: 1" = 1'-0"



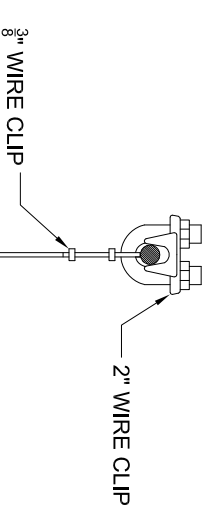
5 CONNECTOR PLATE
SCALE: 1" = 1'-0"



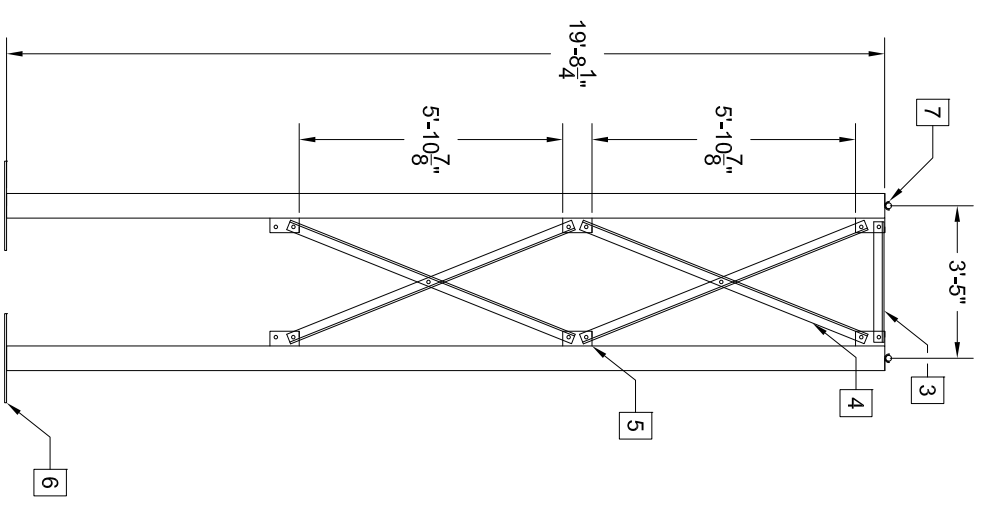
6 BASEPLATE
SCALE: 1" = 1'-0"



7 CABLE SADDLE
SCALE: 1" = 1'-0"



8 SUSPENDER DETAIL
SCALE: NOT TO SCALE



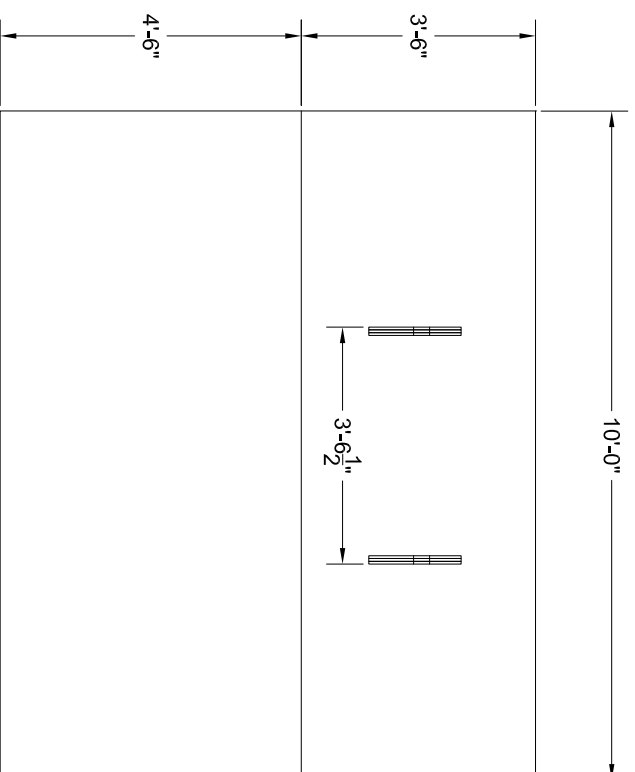
2 TOWER DETAIL
SCALE: 1/2" = 1'-0"

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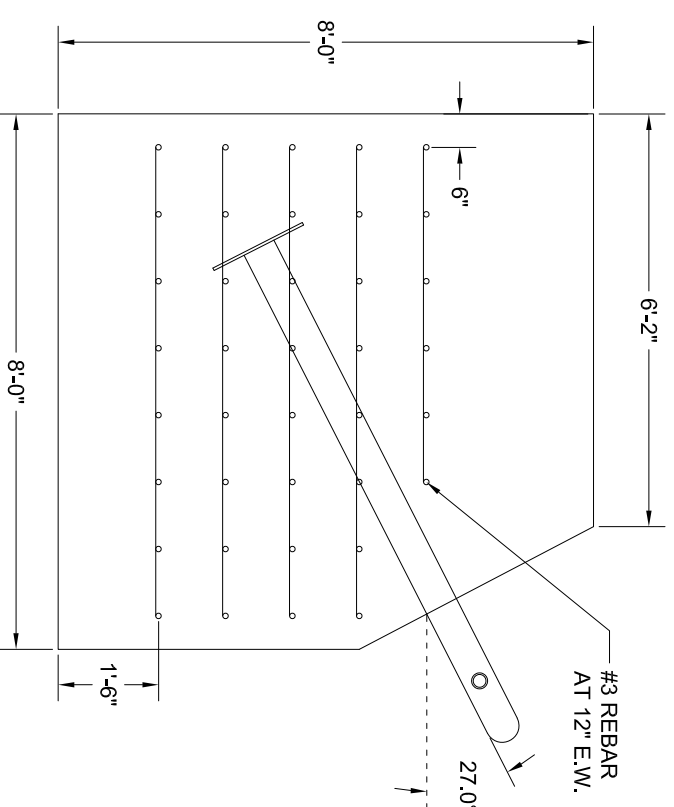
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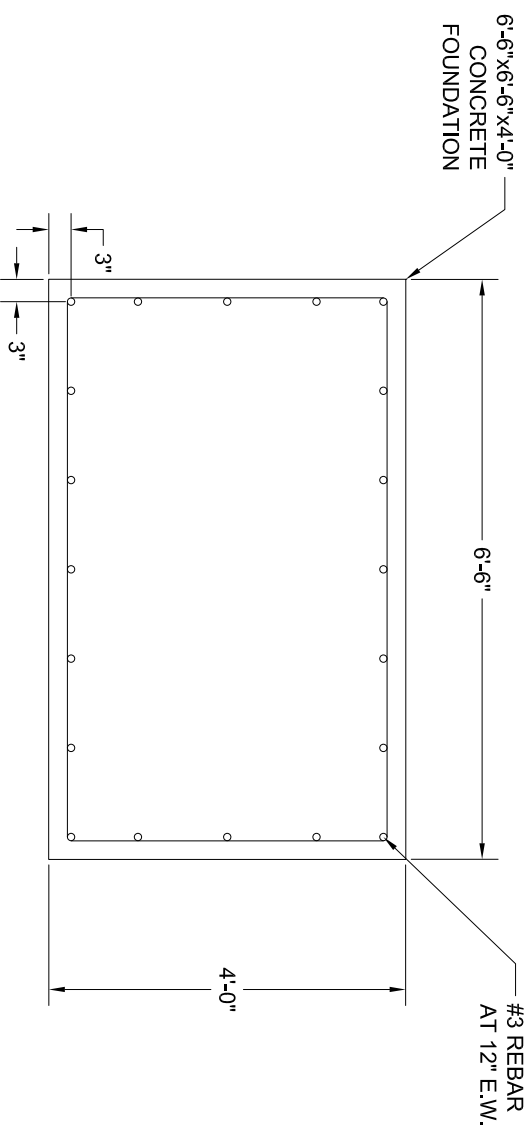
CLIENT:	EL HATILLO PANAMA COCCLE PROVIDENCE		
TEAM:	EDWARD NEJEC ANDREW SPANSON ISABEL VANDEKAM MADRON WILSON		
SITE:	CABUYA RIVER CROSSING		
TITLE:	DECK & TOWER DETAILS		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
PER DETAIL	12/15/17	BBDT	
PROJECT NO:	DRAWING NO:		REVISION:
NA	6		NA



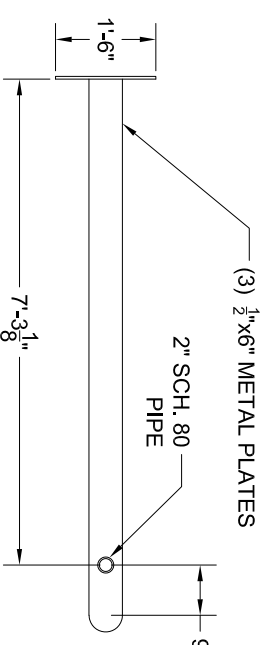
9 ANCHOR DETAIL
SCALE: 3/4" = 1'-0"



10 ANCHOR DETAIL
SCALE: 3/4" = 1'-0"



12 FOUNDATION DETAIL
SCALE: 1" = 1'-0"



11 CABLE CONNECTOR
SCALE: 3/4" = 1'-0"

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TEAM:	EDUARDO NEMEC ANDREW STANSON ISABEL VANDERKAM MADRON WILSON		
SITE:	CABUYA RIVER CROSSING		
TITLE:	ANCHOR & FOUNDATION DETAILS		
SCALE AT A1:	DATE:	DRAWN:	CHECKED:
PER DETAIL	12/15/17	BBDT	
PROJECT NO:	DRAWING NO:	7	REVISION:
NA			NA