# East Bench Canal Company

## Typical Drawings

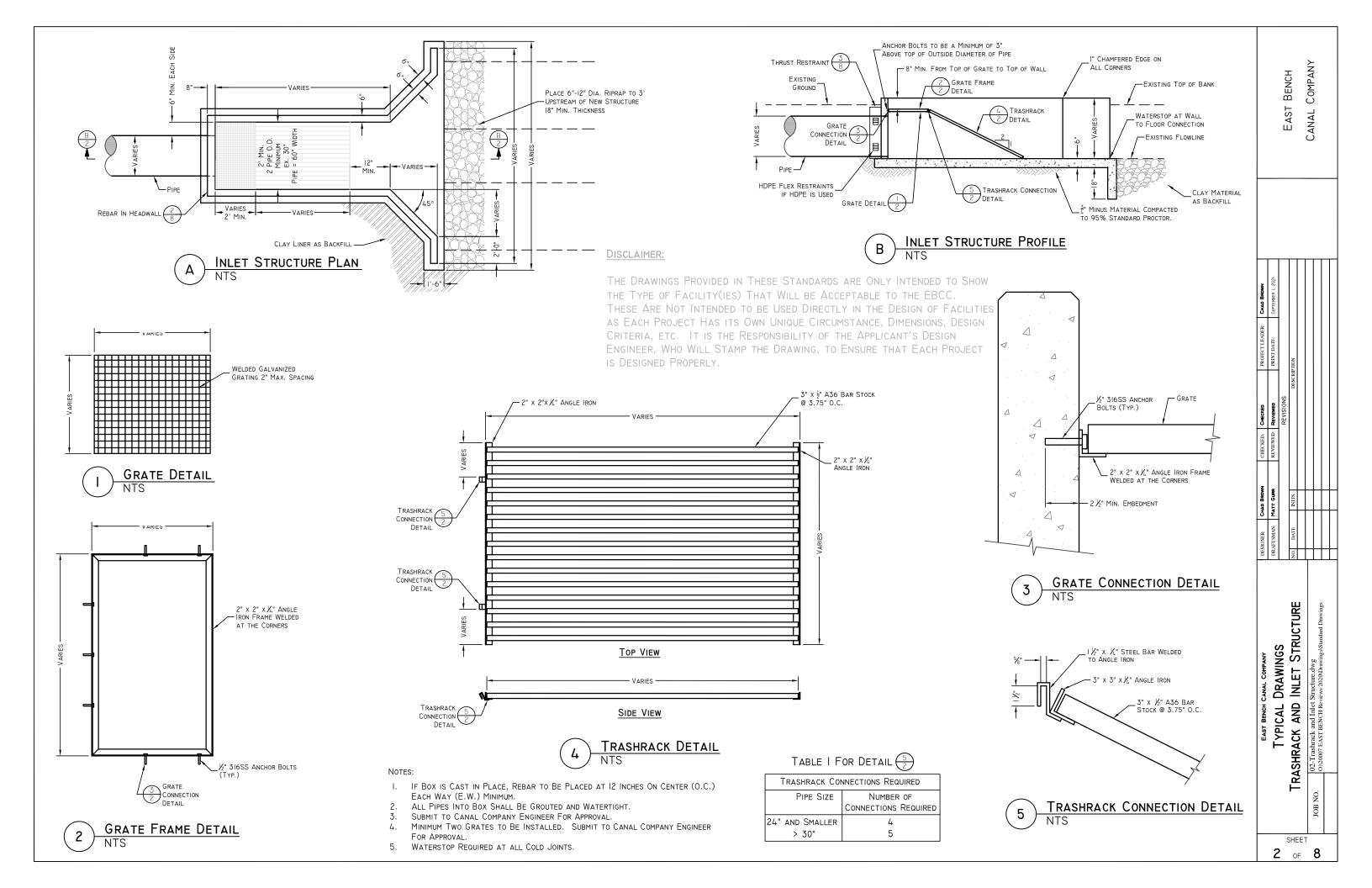
### Sheet Index

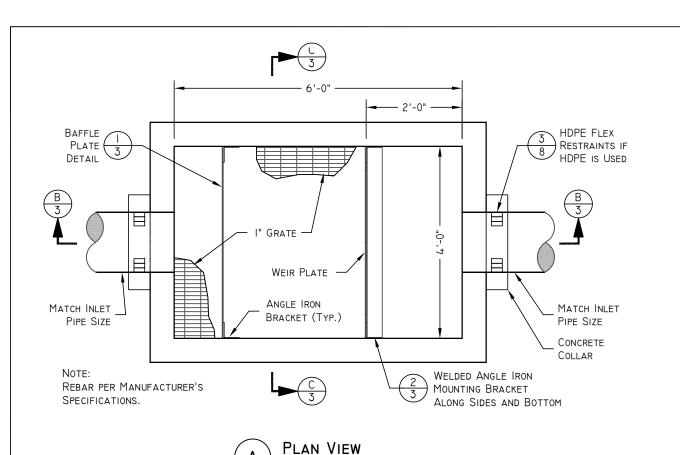
- I COVER SHEET, SHEET INDEX
- 2 TRASHRACK AND INLET STRUCTURE
- 3 3-FOOT CIPOLLETTI WEIR
- 4 I-FOOT PARSHALL FLUME
- 5 90° V-Notch Weir
- 6 IRRIGATION BUBBLE UP BOX
- 7 IRRIGATION TURNOUT-DIVERSION BOX
- 8 WATERMAN C-10 CANAL GATE, REBAR IN HEADWALL, THRUST RESTRAINT

### DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE EBCC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH PROJECT HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT IS THE RESPONSIBILITY OF THE APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

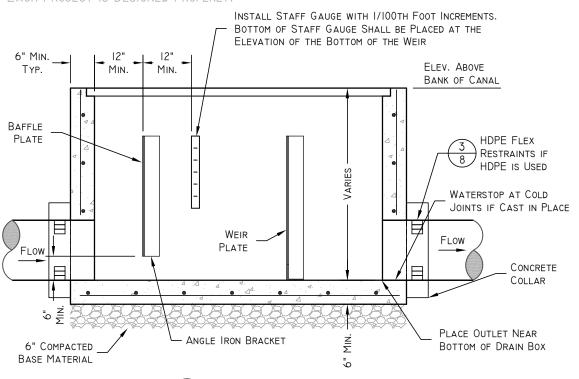
EAST BENCH





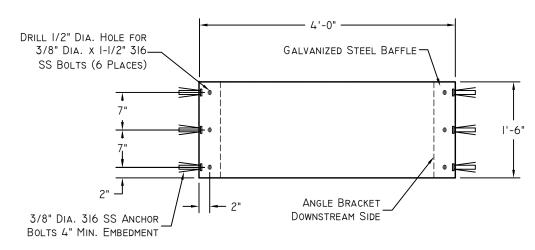
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DISCLAIMER:



SECTION

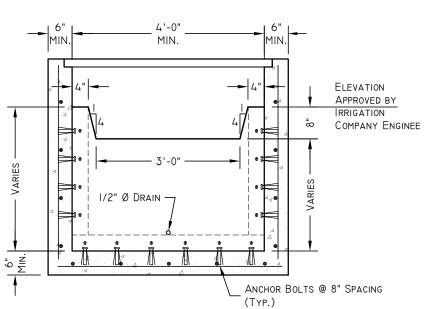
NOTE: PLACE #4 REBAR AT 12" O.C. E.W. IN STRUCTURE FLOOR AND WALLS



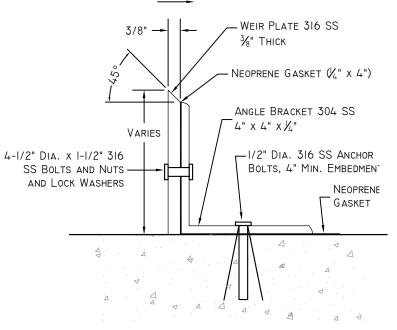
BAFFLE PLATE DETAIL

### TABLE I Q=3.367 LH<sup>3/2</sup> @ L=3

Н (Гт.)	Q (CFS)
0.2	0.90
0.3	1.66
0.4	2.56
0.5	3.57
0.6	4.69
0.66	5.42

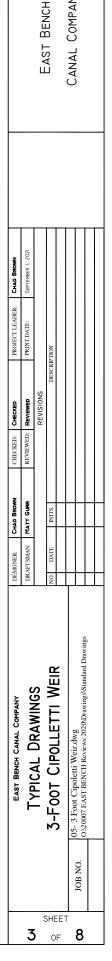




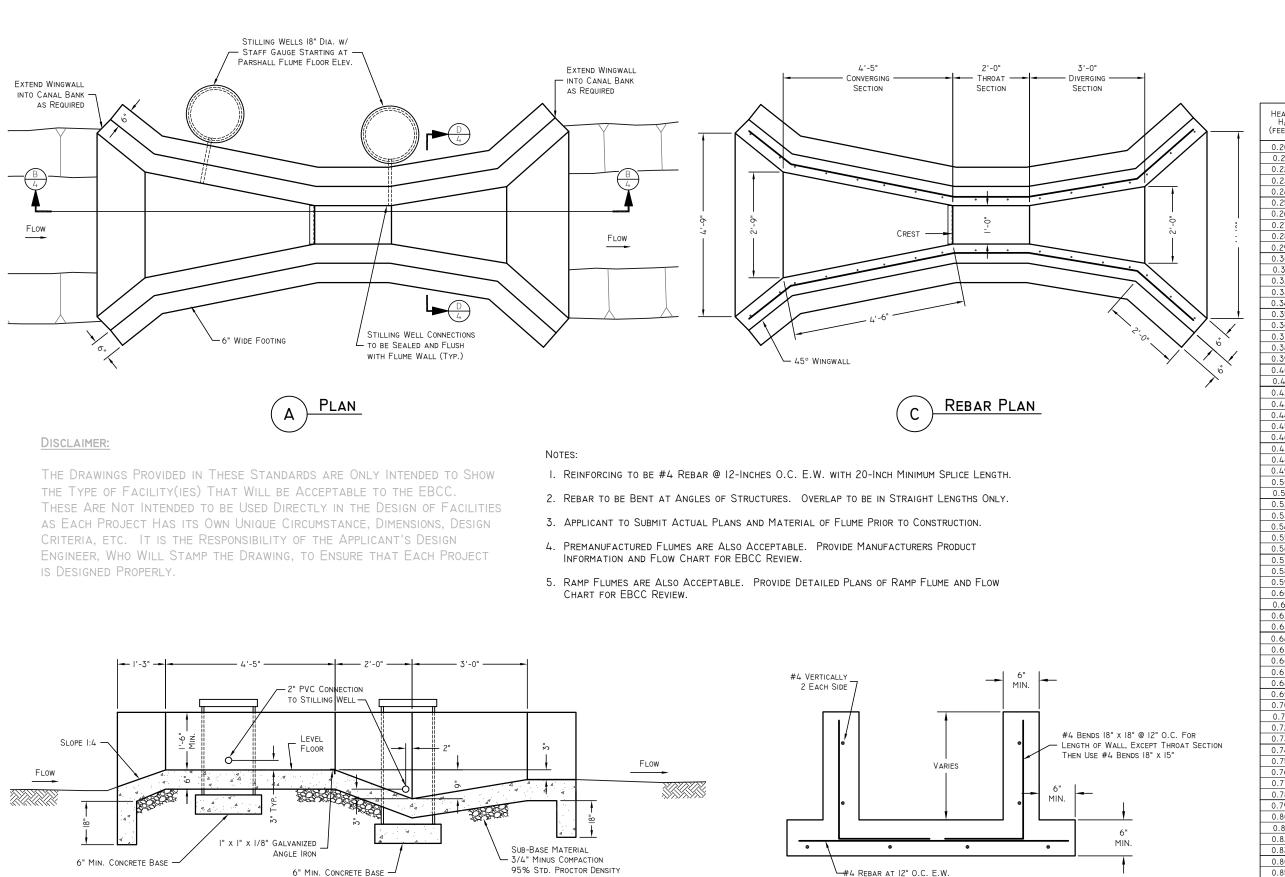


### ANGLE IRON DETAIL

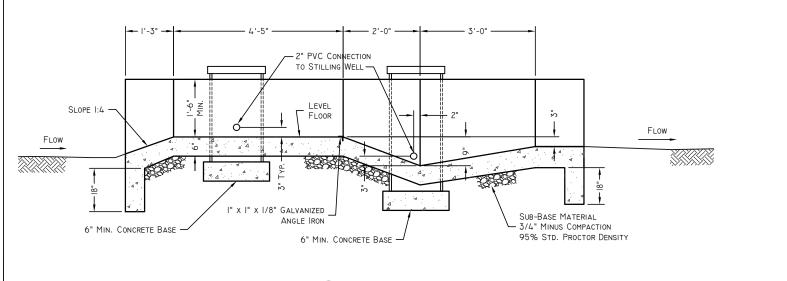
- I. IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
- 2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- 3. SUBMIT TO IRRIGATION COMPANY ENGINEER FOR APPROVAL ON FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 4. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING.



COMPANY



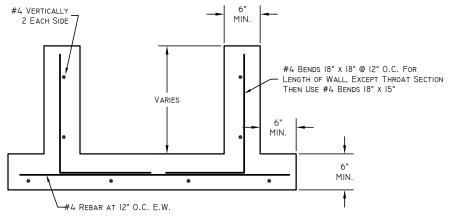
- 4. PREMANUFACTURED FLUMES ARE ALSO ACCEPTABLE. PROVIDE MANUFACTURERS PRODUCT INFORMATION AND FLOW CHART FOR EBCC REVIEW.
- 5. RAMP FLUMES ARE ALSO ACCEPTABLE. PROVIDE DETAILED PLANS OF RAMP FLUME AND FLOW CHART FOR EBCC REVIEW.



PROFILE

ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT

IS DESIGNED PROPERLY.



CROSS SECTION

AD Ha ET)	1			.		FAST	5		ᆛ		
Ha EET)	FLOW	HEAD	FLOW			\ 	Į I		ANAL		
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20	0.35	0.86	3.18								
.2I 22	0.37	0.87	3.24 3.29	<u> </u>							
23	0.43	0.89	3.35								
24	0.46	0.90	3.41								
25	0.49	0.91	3.46								
26	0.51	0.92	3.52								
27	0.54	0.93	3.58								
28	0.58	0.94	3.64								
29	0.61	0.95	3.70								
30	0.64	0.96	3.76	Ь	_				_	_	_
.31 32	0.68 0.7I	0.97	3.82 3.88								
33	0.74	0.99	3.94		2021						
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35	0.80	1.01	4.06	CHAD BROWN	SEPTEMBER I,						
36	0.84	1.02	4.12	G. E	SEPTE						
37	0.88	1.03	4.18	H							
38	0.92	1.04	4.25	DER:							
39	0.95	1.05	4.31	PROJECT LEADER	Œ						
40	0.99	1.06	4.37	ECT	PRINT DATE						
41 42	1.03	1.07	4.43 4.50	PROJ	PRIN		NOI				
42 43	1.07	1.08	4.50	F	H		DESCRIPTION				
45	1.15	1.10	4.62				ESC				
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46	1.23	1.12	4.75		۾	REVISIONS		l			
47	1.27	1.13	4.82	CHECKED	REVIEWED	ISI					
48	1.31	1.14	4.88	3	8	Æ					
49	1.35	1.15	4.94	ä	ä						
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.51	1.44	1.17	5.08	CEB.	REV						
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53	1.52	1.19	5.21								
54 55	1.57 1.62	1.20	5.28 5.34	z							
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58	1.75	1.24	5.55	ð	Σ						
59	1.80	1.25	5.62		ä		Ξ				
60	1.84	1.26	5.69	NER	SW		DATE				
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	1.93	1 28	5.82		Ω	ı	NO.	Ш		L	
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62 63 64 65	2.03 2.08	1.29 1.30 1.31	5.96 6.03			<b>!</b>	~			vmgs	
62 63 64 65 66	2.03 2.08 2.13 2.18 2.23 2.28	1.29 1.30 1.31 1.32 1.33 1.34	5.96 6.03 6.10 6.18 6.25 6.32				~			Drawings	
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62 63 64 65 66 67 68 69 70 .71	2.03 2.08 2.13 2.18 2.23 2.28 2.33 2.38 2.43	1.29 1.30 1.31 1.32 1.33 1.34 1.35 1.36 1.37	5.96 6.03 6.10 6.18 6.25 6.32 6.39 6.46 6.53	<b>&gt;</b>	Ç.	กร		1		ngs/Standard Drawings	
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62 63 64 65 66 67 68 69 70 71 72 73 74	2.03 2.08 2.13 2.18 2.23 2.28 2.33 2.38 2.43 2.448 2.53 2.58	1.29 1.30 1.31 1.32 1.33 1.34 1.35 1.36 1.37 1.38 1.39	5.96 6.03 6.10 6.18 6.25 6.32 6.39 6.46 6.53 6.60 6.68 6.75	IL COMPANY		CAWINGO			200	2020/Drawings/Standard Drawings	
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	2.03 2.08 2.13 2.18 2.23 2.28 2.33 2.33 2.43 2.448 2.53 2.58 2.63	1.29 1.30 1.31 1.32 1.33 1.34 1.35 1.36 1.37 1.38 1.39 1.40 1.41	5.96 6.03 6.10 6.18 6.25 6.32 6.39 6.46 6.53 6.60 6.68 6.75 6.82	ANAL COMPANY		URAWINGS		ביין ביין	e.dwg	ews 2020/Drawings/Standard Drawings	
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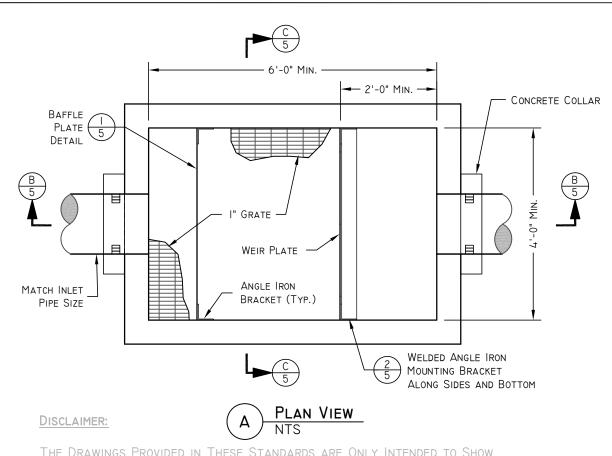
COMPANY

BENCH

TABLE I

HEAD-FLOW RELATIONSHIP

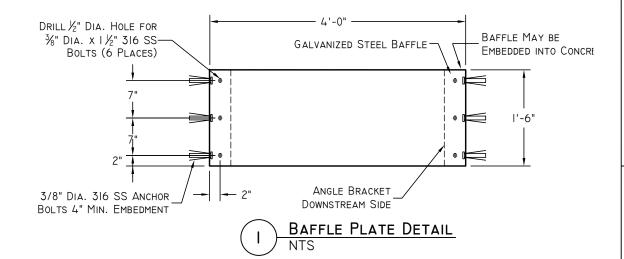
FOR CONCRETE FLUME



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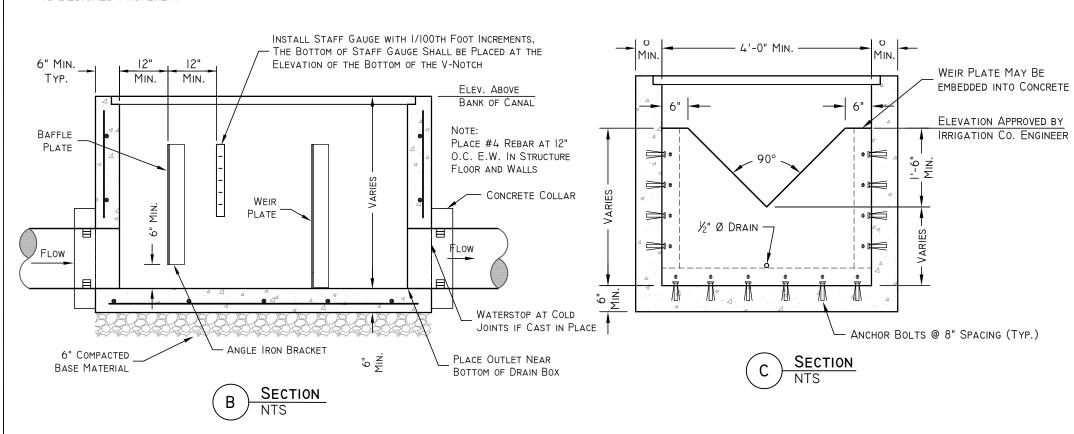
### FLOW TABLE Q=CW x H^2.5

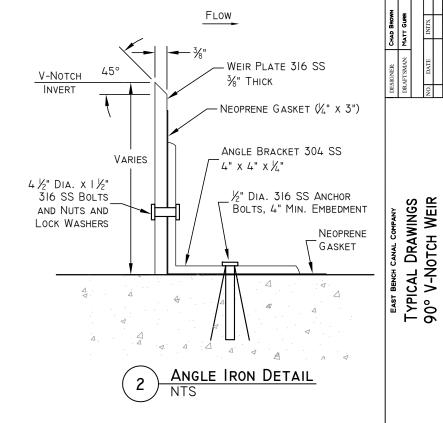
Cw	2.5
Н	Q
(FT.)	(CFS)
0.20	0.04
0.30	0.12
0.40	0.25
0.50	0.44
0.60	0.70
0.70	1.02
0.80	1.43
0.90	1.92
1.00	2.50
1.10	3.17
1.20	3.94
1.30	4.82
1.40	5.80
1.50	6.89



#### Notes:

- I. IF BOX IS CAST IN PLACE, PUT #4 REBAR PLACED AT I2" O.C. E.W. IN STRUCTURE FLOOR AND WALLS MINIMUM.
- 2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- 3. SUBMIT TO IRRIGATION COMPANY ENGINEER FOR FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 4. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING



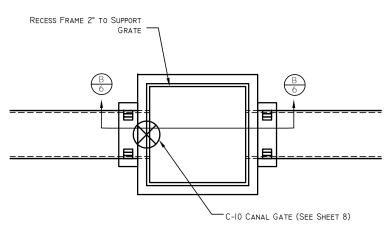


COMPANY

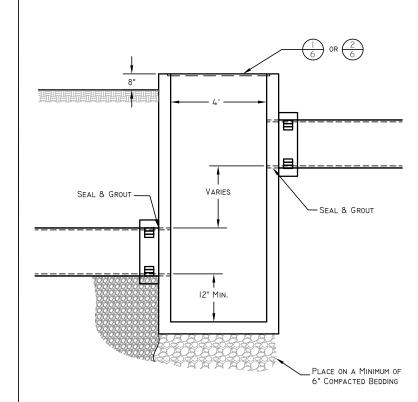
CANAL

SHEET **8** 

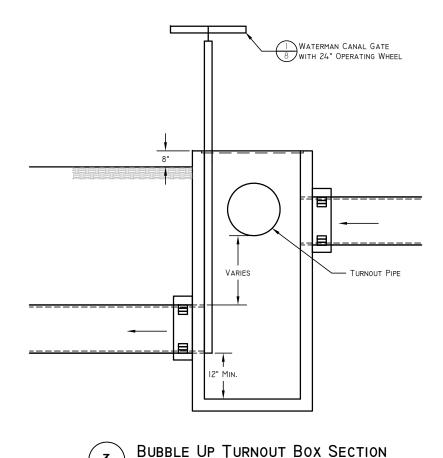
BENCH



### A 4' X 4' IRRIGATION BOX PLAN

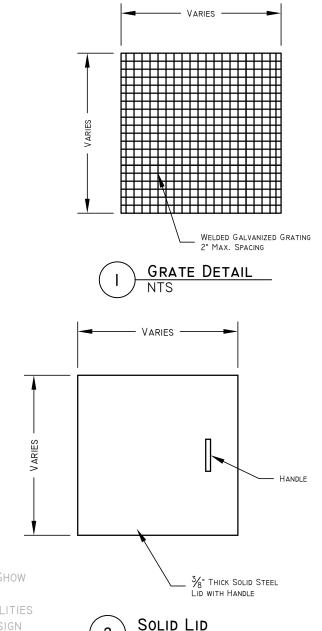


B 4' x 4' IRRIGATION BOX PROFILE



#### DISCLAIMER:

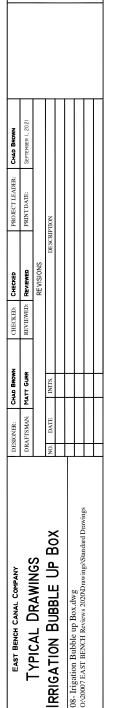
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE EBCC.
THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH PROJECT HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT IS THE RESPONSIBILITY OF THE APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.



NTS

#### Note:

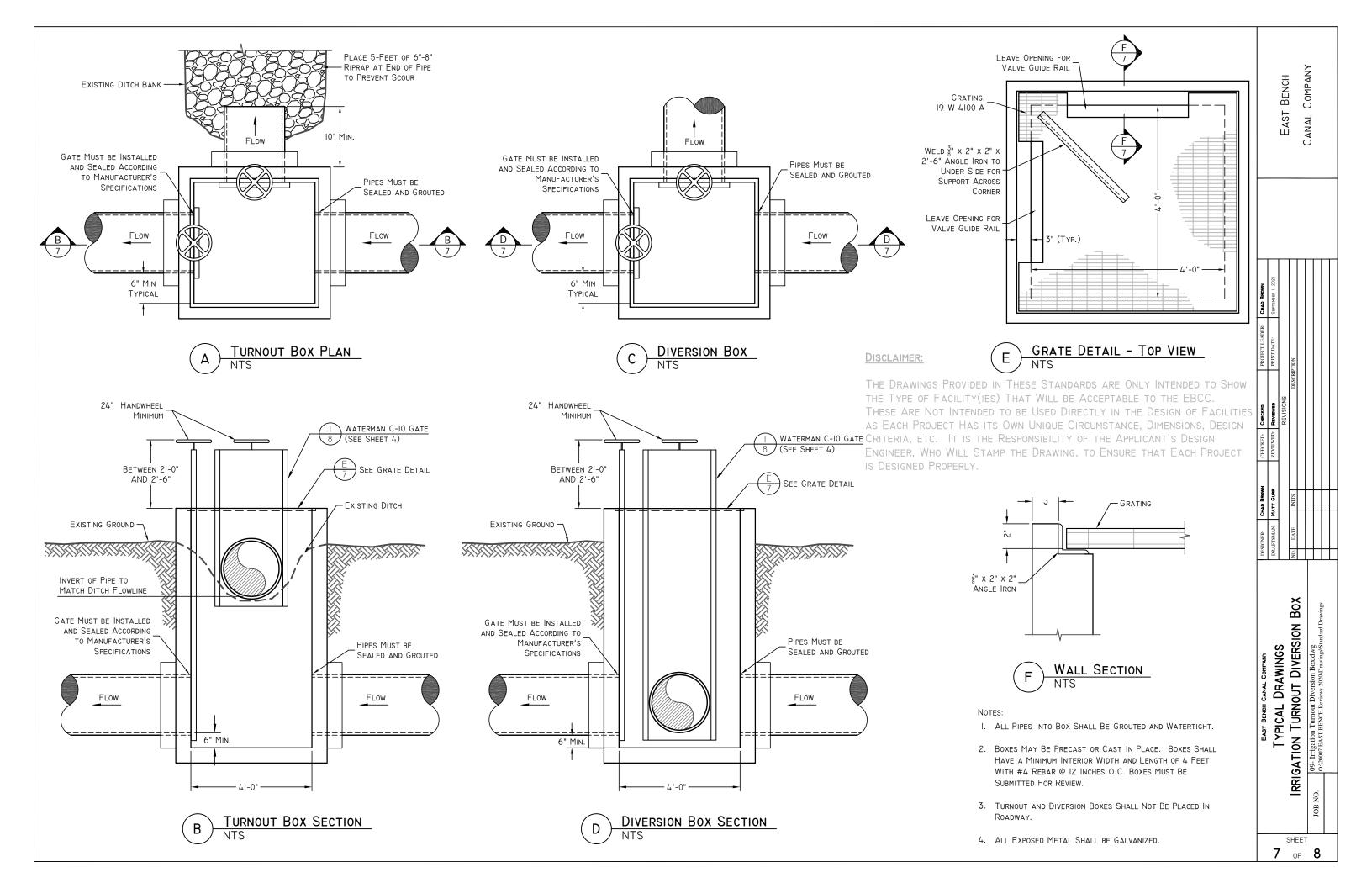
- IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT I2" O.C. E.W. MINIMUM.
- ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
- 3. SUBMIT TO ENGINEER FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 4. MINIMUM PIPE SLOPES FOR PIPE UNDER ROADWAY SEE SHEET 4.
- 5. Boxes May be Precast or Cast in Place. Boxes Shall Have a Minimum Interior Width and Length of 4' With #4 Rebar @ 12" O.C. Boxes Must Be Submitted for Review.
- 6. IRRIGATION BOXES SHALL NOT BE PLACED IN ROADWAY.
- 7. ALL PIPE PLACED IN ROADWAY MUST BE CLASS III RCP.
- 8. REMOVAL AND REPLACEMENT OF CANAL BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB.
- CAST IN PLACE BOXED MUST HAVE WATERSTOP INSTALLED AT EACH COLD JOINT.
- 10. GRATES TO BE NOTCHED OUT AROUND HEADGATES, SUPPORT GRATES ONCE CUT.

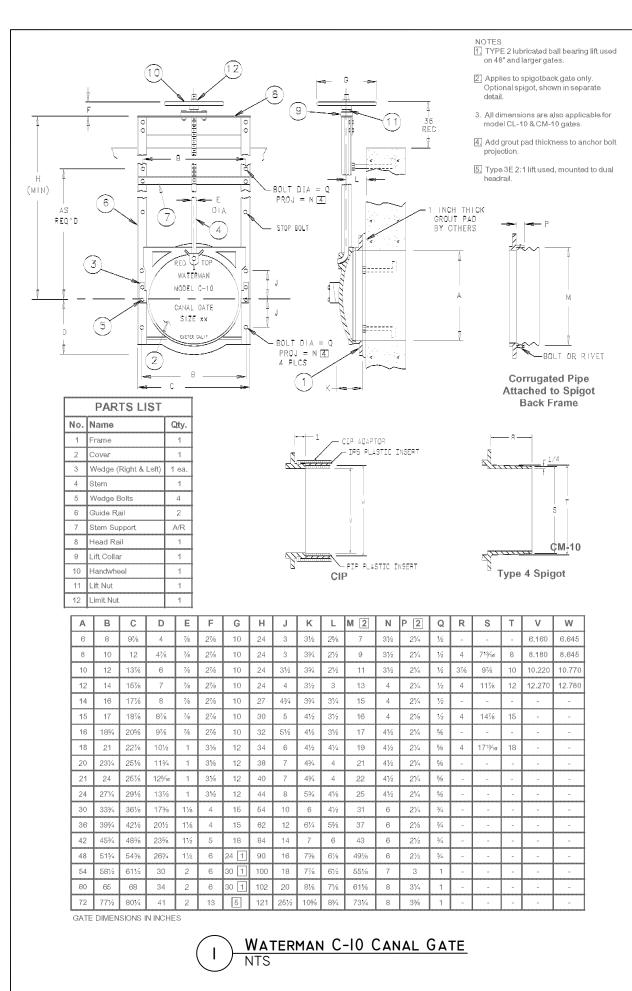


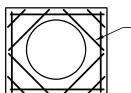
SHEET **8** 

CANAL COMPANY

EAST BENCH





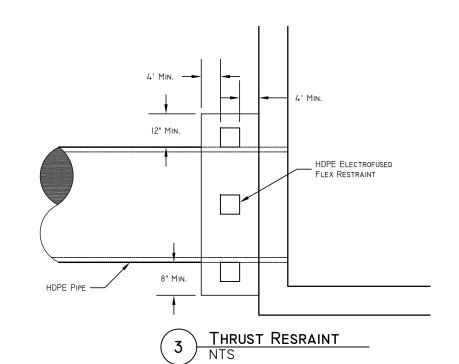


PLACE #4 REBAR AS SHOWN
- AROUND PIPE OPENING,
SUBMIT REBAR REINFORCEMENT
TO ENGINEER

2 REBAR IN HEADWALL
NTS

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PIPE DIA. (IN.)	# OF RESTRAINTS
≤ 24	3
≤ 36	4
≤ 42	5
>42	I RESTRAINT FOR EVERY 20 INCHES IF PIPE CIRCUMFERENCE

\* THRUST RESTRAINTS SHOULD BE SPACED EQUIDISTANT AROUND THE PIPE PERIMETER.

SEE WWW.WATERMANUSA.COM/PDF/C-IO.PDF

_		LAST DENCH CAN'T COTTEN					
8		Typical Daywing	DRAF	TSMAN: M	DRAFTSMAN: MATT GURR	REVIEWED: REVIEWED	REVIEWED
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