Utah Lake Distributing Company

Design Standards and Standard Drawings

Sheet Index

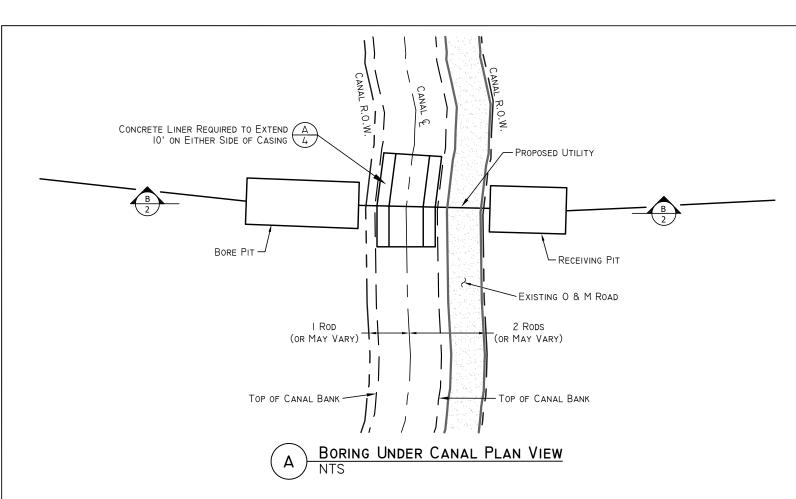
- Cover Sheet
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- 5 OPEN CUT DETAILS
- 6 Box Culvert Details
- 7 WEIR TURNOUT GATE
- 8 3-FOOT CIPOLLETTI WEIR
- 9 I-FOOT PARSHALL FLUME
- 10 IRRIGATION TURNOUT/DIVERSION BOX
- II CHECK STRUCTURE AND TURNOUT
- 12 PIPE INLET INTO CANAL

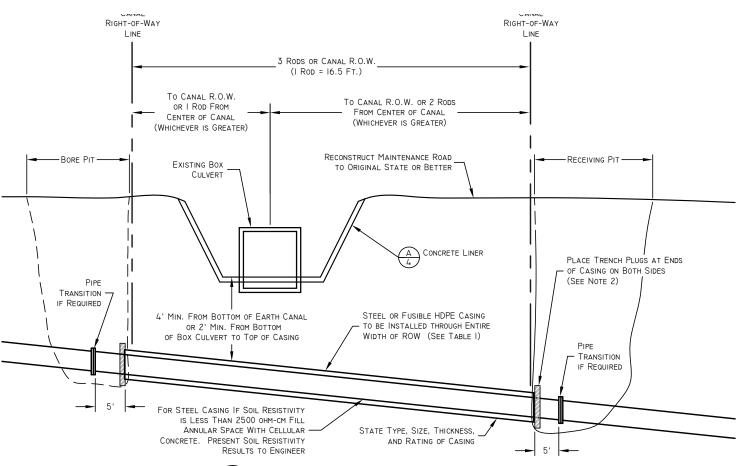
STANDARD DRAWINGS DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITIES THAT WILL BE ACCEPTABLE TO ULDC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH CROSSING IS DESIGNED PROPERLY.

BY USING ANY DETAILS IN THESE DRAWINGS, YOU ACKNOWLEDGE THAT YOU HAVE VERIFIED THE STANDARD DRAWING DETAIL IS ADEQUATE FOR INCORPORATING INTO YOUR DESIGN. FRANSON CIVIL ENGINEERS WILL NOT BE HELD LIABLE FOR ANY USE OF THESE DRAWINGS. CONTACT VINCE HOGGE FROM FRANSON CIVIL ENGINEERS FOR ANY QUESTIONS REGARDING THESE STANDARD DRAWINGS.

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BORE CASING CROSS SECTION

Notes:

- I. BORE PIT COMPACTION TO BE 92% MODIFIED PROCTOR DENSITY.
- 2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND I2 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
- STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT
 OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO
 PROTECT THE WORK SITE.
- 4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
- THRUST BLOCKS ARE REQUIRED ON ALL BENDS AND TEES FOR DIP, PVC, OR PIP WATERLINES.
- 6. CASING MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR 4 FEET BELOW EARTHEN CANAL BOTTOM.
- 7. BORE PITS MUST BE COMPLETELY PLACED OUTSIDE OF THE CANAL RIGHT-OF-WAY. CANAL RIGHT-OF-WAY IS GENERALLY I-ROD ON THE UPHILL SIDE AND 2-RODS ON THE DOWNHILL SIDE FROM THE CENTER OF THE CANAL. R.O.W. DIMENSIONS MAY BE GREATER IN SOME AREAS.
- 8. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS.

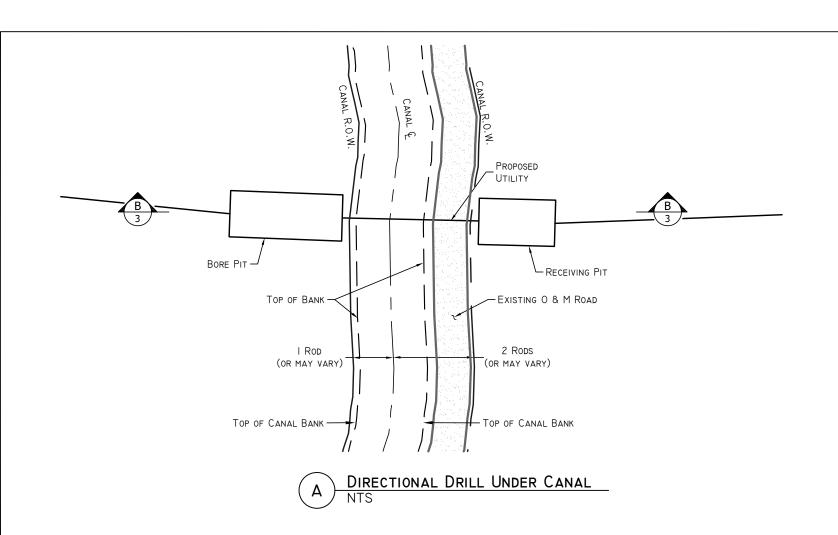
TABLE I STEEL CASING THICKNESS

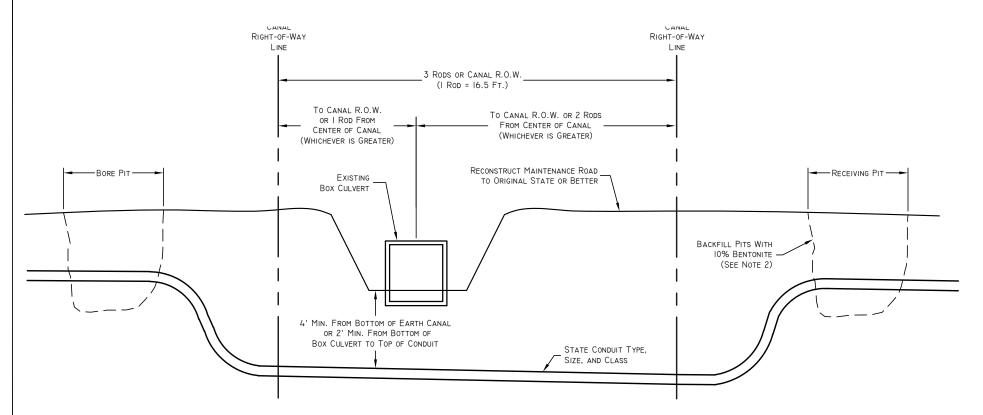
DIAMETER (INCHES)	MINIMUM WALL THICKNESS (INCHES)
12"	0.188"
14" - 16"	0.312"
18"	0.312"
20" - 22"	0.375"
24" - 26"	0.438"
28" - 32"	0.500"
34" - 36"	0.562"
38" - 42"	0.562"

	SOMMADO GOAGIAAFO	DRAFTSMAN: MATT GURR	MATT GURR		REVIEWED: REVIEWED	PRINT DATE:	MARCH 5, 2018
	O ANDARD DRAWINGS				REVISIONS		
	CANAL BOBING DETAILS	NO. DATE	NITS.		DESCRIPTION	PITON	
	טאואר סטוווס טרואנט	I JUNE 2010	0 EA	UPDATED			
	M.III DC Boring Details dwg	A JANUARY 20	JANUARY 2018 MG, VH U	UPDATED			
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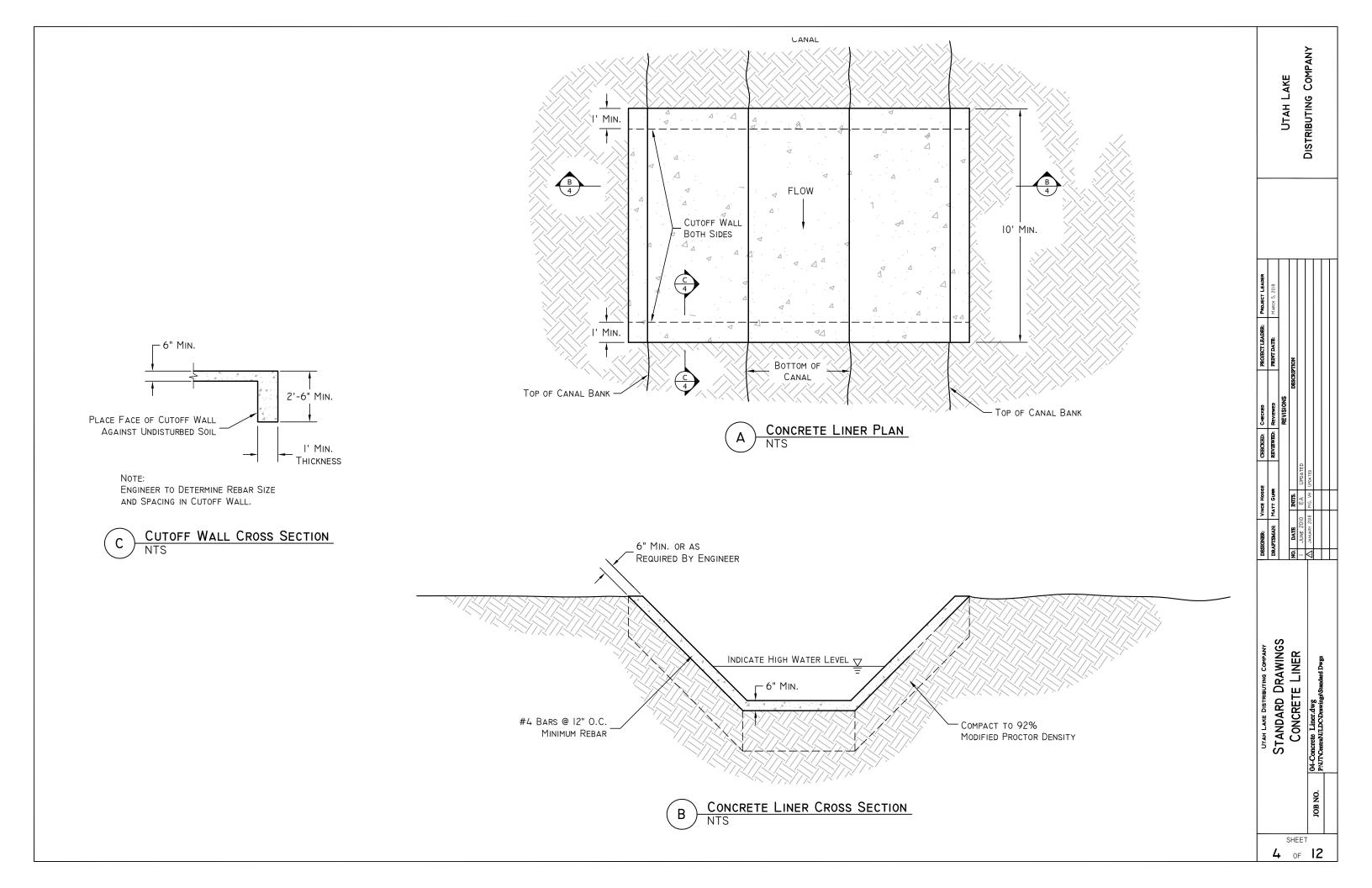


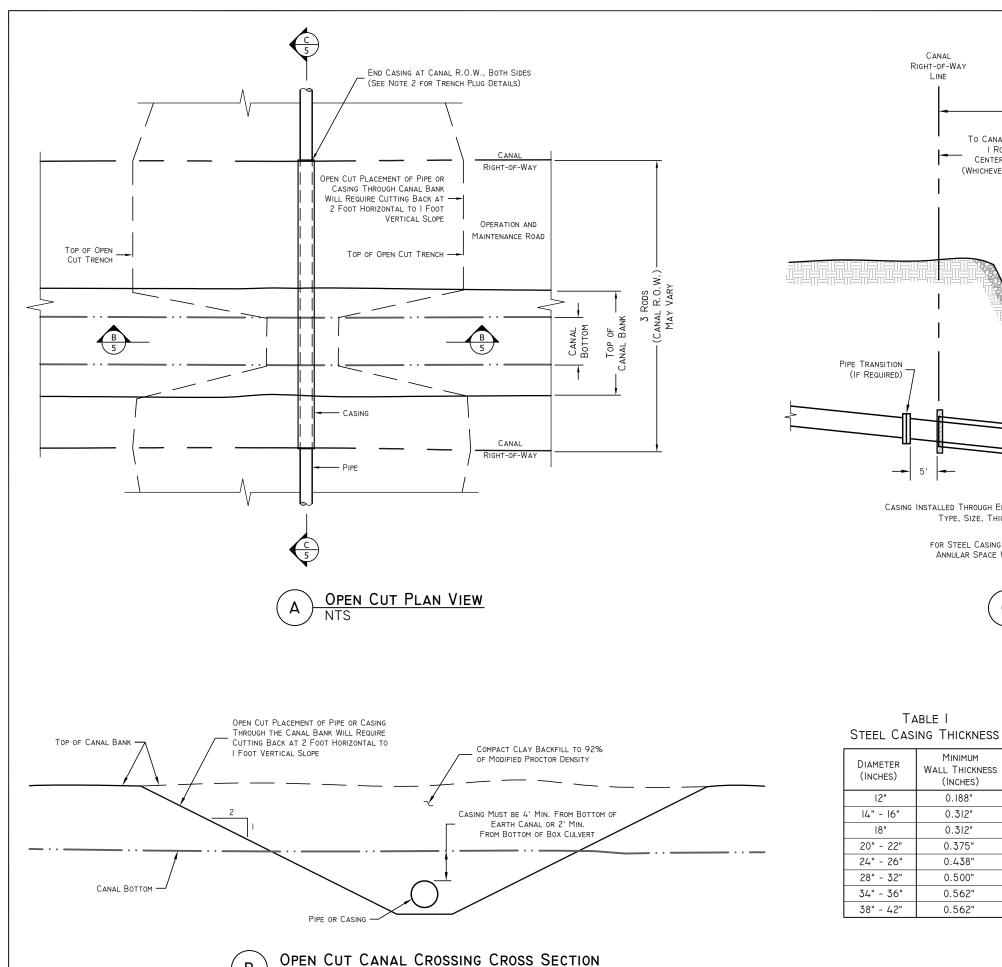
Notes:

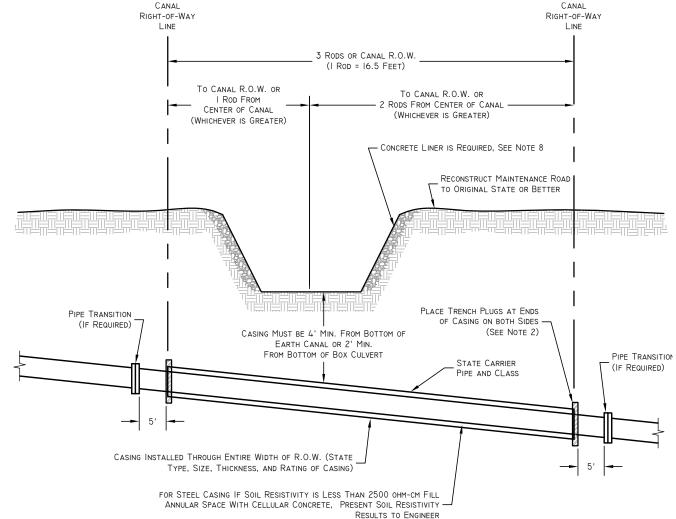
- I. BORE PIT COMPACTION TO BE 92% MODIFIED PROCTOR DENSITY.
- FILL BORE PITS WITH A MIXTURE OF NATIVE MATERIAL AND 10% BENTONITE POWDER TO CREATE A SEAL THAT WILL PREVENT WATER FROM FOLLOWING THE NEW CONDUIT.
- STORMWATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK SITE.
- 4. CONDUIT MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING CANAL BOX CULVERT OR 4 FEET BELOW EARTHEN CANAL BOTTOM.
- 5. Bore Pits Must Be Completely Placed Outside of the Canal Right-of-Way. Canal Right-of-Way is Generally I Rod on the Uphill Side and 2 Rods on the Downhill Side From the Center of the Canal. ROW Dimensions May Be Greater in Some Areas.

		UTAH LAKE DISTRIBUTING COMPANY	DESIGNER:	DESIGNER: VINCE HOGGE	CHECKED: CHECKED	СНЕСКЕВ	PROJECT LEADER: PROJECT LEADER	PROJECT LEADER	ge
3		CHANDAD GOAGINGS	DRAFTSMAN: MATT GURR	MATT GURR	REVIEWED:	REVIEWED: REVIEWED	PRINT DATE:	MARCH 5, 2018	
<u> </u>		STANDARD DRAWINGS				REVISIONS			UTAH LAKE
0	SHE	DIBECTIONAL DELLING DETAILS	NO. DATE	STIM:		DESCRIPTION	PITON		
F	=E	DISECTIONAL DISECTION DE AILS	A JANUARY 20	JANUARY 2018 MG, VH UPDATED	TED				
	 	103_III DC Directional Drilling dwg							DISTRIBUTING COMPA
2	JOB NO.	÷							

B DIRECTIONAL DRILL CROSS SECTION







OPEN CUT CANAL CROSSING PROFILE

Notes:

MINIMUM

WALL THICKNESS

(INCHES)

0.188"

0.312"

0.312"

0.375"

0.438"

0.500"

0.562"

0.562"

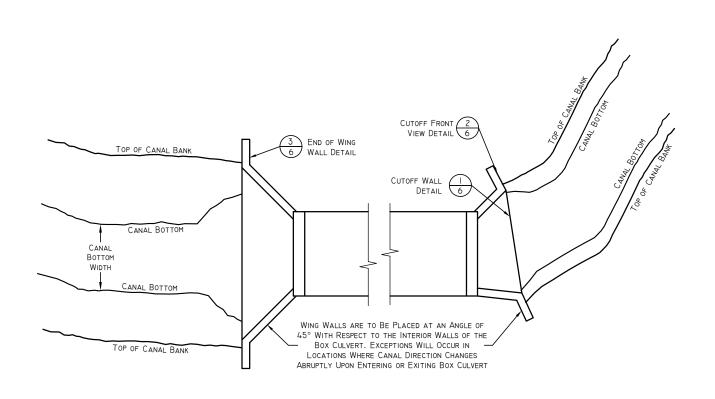
- I. REMOVAL AND REPLACEMENT OF CANAL FLOOR AND BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB. COMPACTION TO BE 92% MODIFIED PROCTOR DENSITY.
- 2. TRENCH PLUGS ARE TO BE PLACED IN LOCATIONS SHOWN ON BOTH SIDES FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW CASING PIPES AND A MINIMUM THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE, OR SHALL BE A FLOWABLE FILL CONCRETE.
- 3. STORM WATER RUNOFF ENTERS THE CANAL DURING STORM EVENTS OR AT OTHER UNEXPECTED TIMES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT THE WORK
- 4. WATERLINE PIPE INSIDE OF CASING SHALL HAVE RESTRAINING JOINTS.
- 5. THRUST BLOCKS ARE REQUIRED ON ALL BENDS AND TEES FOR DIP, PVC, OR PIP
- 6. CASING MUST BE 4' MIN. FROM BOTTOM OF EARTH CANAL OR 2' MIN. FROM BOTTOM OF Box Culvert.
- 7. CANAL RIGHT-OF-WAY IS GENERALLY I-ROD ON THE UPHILL SIDE AND 2-RODS ON THE DOWNHILL SIDE FROM THE CENTER OF THE CANAL. R.O.W. DIMENSIONS MAY BE GREATER IN SOME AREAS.
- 8. CONCRETE LINER IS TO BE INSTALLED IN THE CANAL EXTENDING 5 FEET PAST THE EXTENTS OF CANAL DISTURBANCE SEE DETAIL. \bigcirc
- 9. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS.

DESIGNER:	DRAFISMAN:		NO. DATE	I JUNE 2010	△ JANUARY 201			
UTAH LAKE DISTRIBUTING COMPANY		STANDARD DRAWINGS	OPEN CIIT DETAILS	בון כסו ערואונט	05-III DC Onen Cut Details dwa	DAITCENTANT DODRESSON Standard Dates	Commence of the second of the	
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A PLAN VIEW OF BOX CULVERT

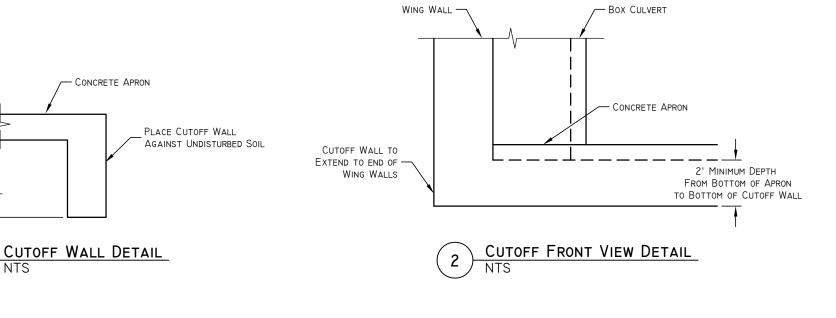
2' MIN. DEPTH FROM

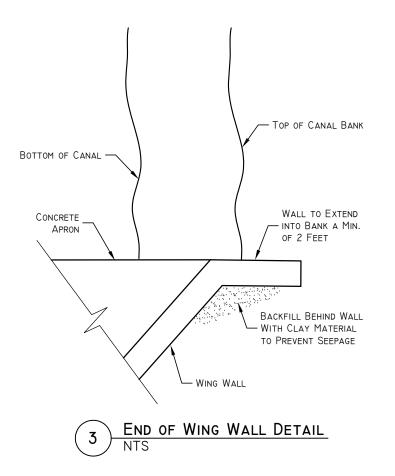
BOTTOM OF APRON TO

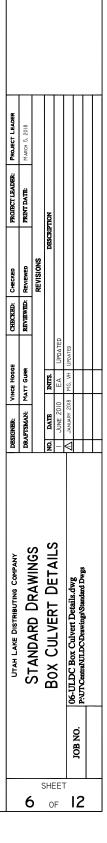
BOTTOM OF CUTOFF WALL

Notes:

- I. Box Culverts to Have a Minimum Height of 6 Feet.
- 2. WIDTH OF BOX CULVERT IS TO MATCH EXISTING CHANNEL BOTTOM.
- 3. NO RIPRAP ALLOWED IN THE CANAL.
- 4. Access to Canal Operation and Maintenance Road Shall be Installed with Curb Cuts at Drive Approaches and Thickened Concrete at Sidewalks.
- 5. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
- 6. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
- 7. 6 FOOT CHAIN LINK FENCE OR 4 FOOT PARAPET WALL IS REQUIRED ON ALL BOX CULVERTS THAT CARRY PEDESTRIAN TRAFFIC. EXCEPTIONS MAY OCCUR WHERE LOCAL ORDINANCES NOTE OTHERWISE AND UPON APPROVAL BY CANAL COMPANY.
- 8. Drawings Submitted for Review are to Show Plan and Profile Views, Note Slope, Include Detail Indicating Rebar Size and Spacing, and State Traffic Loading.
- 9. CASINGS MUST HAVE A MINIMUM OF 2 FEET BETWEEN TOP OF CASING AND BOTTOM OF BOX CULVERT.
- 10. ALL CONCRETE USED IN CONSTRUCTION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI. THE CONCRETE MIX SHALL INCLUDE BETWEEN 5% AND 7% AIR ENTRAINMENT.

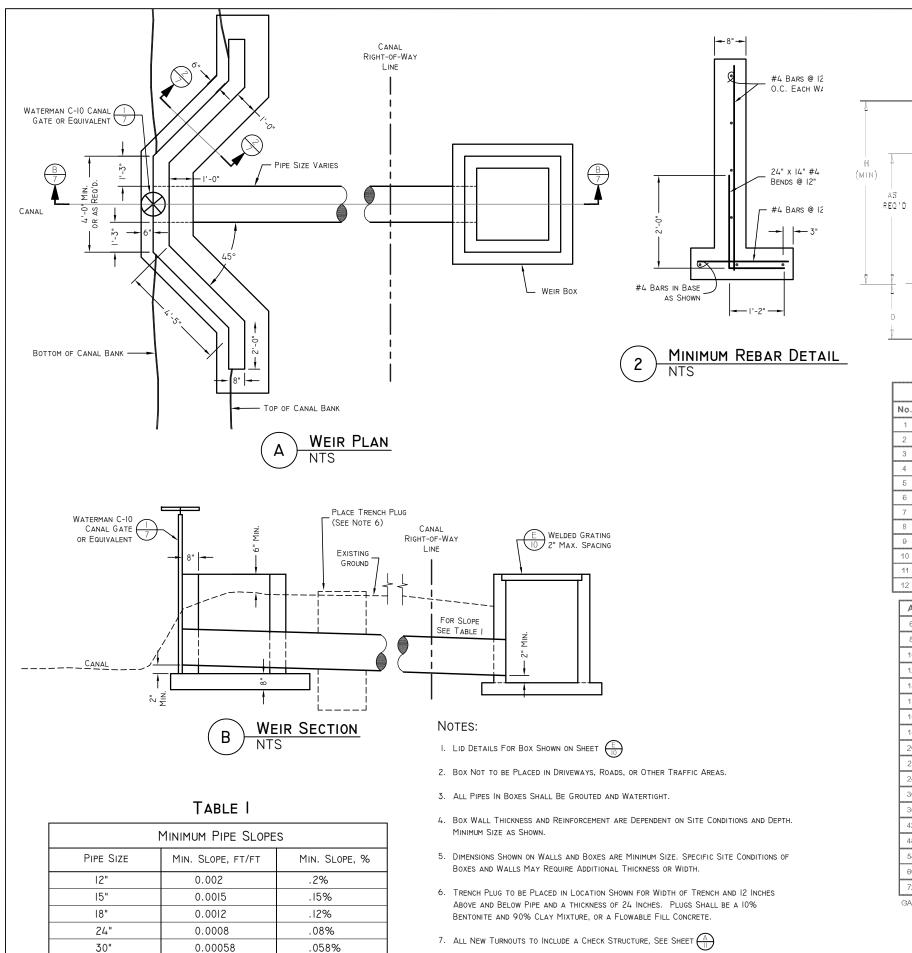






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DISTRIBUTING

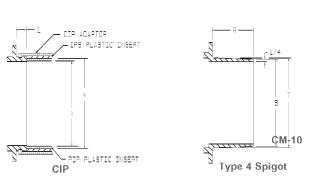


8. THE INVERT OF THE TURNOUT PIPE SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE

CURRENT SILT LAYER.

	1.	TES TYPE 2 lubricated ball bearing lift used on 48" and larger gates.
	8	Applies to spigotback gate only. Optional spigot, shown in separate detail.
1		All dimensions are also applicable for model CL-10 & CM-10 gates.
	# # # # # # # # # # # # # # # # # # #	Add grout pad thickness to anchor bol projection.
н Т		Type 3E 2:1 lift used, mounted to dual headrail.
MIN) AS REQ'D	BOLT DIA = Q PROJ = N (4) STOP BOLT PROJ = N (4) STOP BOLT PROJ = N (4) STOP BOLT PROJ = N (4) STOP BOLT	
	RED CTOP WATERMAN MODEL C-10	
	MODEL C-10 CANAL GATE SIZE XX DISTORDULE BOLT DIA = Q	M
<u>.V</u>	PROJ = N (4)	BOLT OR RIVET
_	C R C	Corrugated Pipe Attached to Spigot
	PARTS LIST	Back Frame

No.	Name	Qty.
1	Frame	1
2	Cover	1
3	Wedge (Right, & Left)	1 ea.
4	Stem	1
5	Wedge Bolts	4
6	Guide Rail	2
7	Stem Support	A/R
8	Head Rail	1
9	Lift Collar	1
10	Handwheel	1
11	Lift, Nut	1
12	Limit Nut	1



NOTES

Α	В	С	D	Е	F	G	Н	J	К	L	M 2	N	P 2	Q	R	S	Т	V	W
6	8	9%	4	7∕8	21/8	10	24	3	31/2	25%	7	31/2	21/4	1/2	-	-	-	6.160	6.645
8	10	12	4%	7∕8	21/8	10	24	3	3%	21/2	9	31/2	21/4	1/2	4	713/1e	8	8.180	8.645
10	12	13%	6	7∕8	2%	10	24	3½	3¾	21/2	11	3½	21/4	1/2	37/a	97/8	10	10.220	10.770
12	14	15%	7	7∕8	21/8	10	24	4	3½	3	13	4	21/4	1/2	4	11%	12	12.270	12.780
14	16	17%	8	7/8	21/8	10	27	43/4	33/4	31/4	15	4	21/4	1/2	-	-	-	-	-
15	17	18%	8%	7∕6	27/e	10	30	5	41/2	31/2	16	4	2½	1/2	4	14%	15	-	-
16	18¾	20%	9%	7∕8	21/8	10	32	51/2	41/2	31/2	17	41/2	21/4	5∕8	-	-	-	-	-
18	21	221/8	10½	1	31/8	12	34	6	41/2	41/4	19	4½	21/4	5/8	4	171% e	18	-	-
20	231/4	251/8	113/4	1	31/8	12	38	7	43/4	4	21	41/2	21/4	5/8	-	-	-	-	-
21	24	25%	12%e	1	31/a	12	40	7	4%	4	22	41/2	21/4	%	-	-	-	-	-
24	271/4	291/8	131/8	1	3½	12	44	8	5¾	4½	25	4½	21/4	5/8	-	-	-	-	-
30	33¾	361/6	17%	11/a	4	15	54	10	6	41/2	31	6	21/4	3/4	-	-	-	-	-
36	39¾	421/8	20½	11/6	4	15	62	12	61/4	5%	37	6	21/8	3/4	-	-	-	-	-
42	45¾	48%	23%	11/2	5	18	84	14	7	6	43	6	21/2	3/4	-	-	-	-	-
48	513/4	54%	26%	11/2	6	24 1	90	16	7%	61/8	49½	6	21/2	3/4	-	-	-	-	-
54	581/2	61½	30	2	6	30 1	100	18	7%	6½	55½	7	3	1	-	-	-	-	-
60	65	68	34	2	6	30 1	102	20	81/8	7½	61½	8	31/4	1	-	-	-	-	-
72	771/2	801/4	41	2	13	5	121	251/2	10%	83/4	731/4	В	3%	1	-	-	T -		-

GATE DIMENSIONS IN INCHES

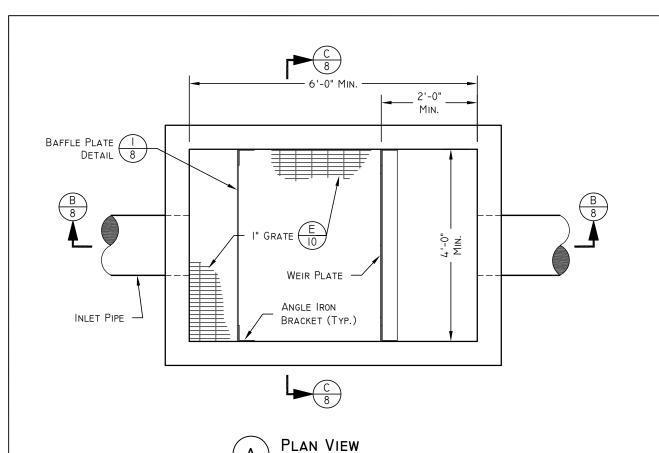


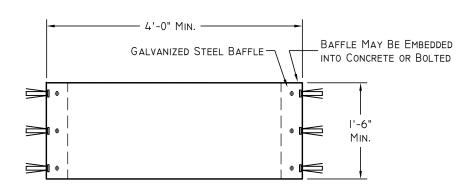
NOTE: DETAIL I INFORMATION TAKEN FROM WATERMAN USA WEBSITE.

OTAH LAKE DISTRIBUTING COMPANY STANDARD DRAWINGS WEIR TURNOUT GATE JOB NO. PAUTOCEMERNULDCODAWINGS/Standard Dwgs

COMPANY

DISTRIBUTING



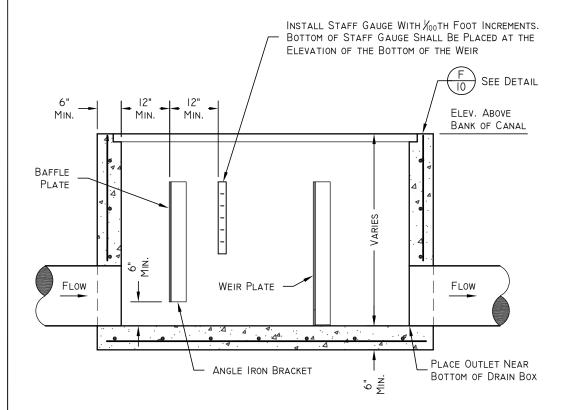


BAFFLE PLATE DETAIL
NTS

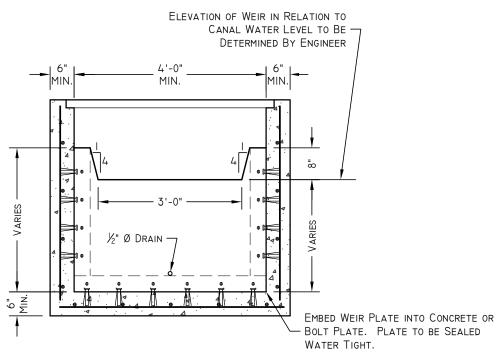
TABLE I Q=3.367 LH^{3/2}@ L=3

Н (Fт.)	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

NOTE: THIS WEIR IS SHOWN AS AN EXAMPLE. THE EXACT WEIR DIMENSIONS & FLOW TABLE TO BE DETERMINED BY APPLICANTS ENGINEER.



B INLET AND OUTLET CROSS SECTION NTS



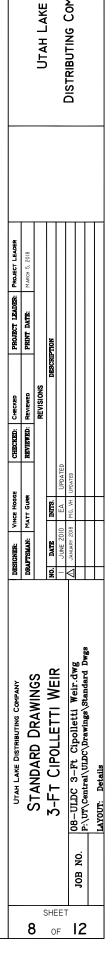
(C) WEIR SECTION NTS

Notes:

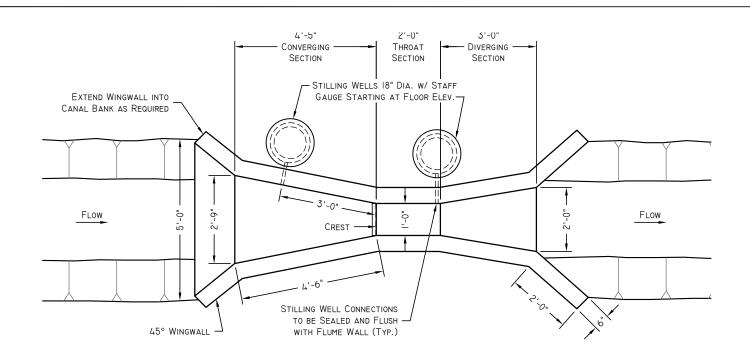
- I. IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12 INCHES O.C. E.W. MINIMUM.
- 2. DETAILS FOR CAST IN PLACE BOX SEE



- ALL PIPES IN BOX SHALL BE GROUTED AND WATERTIGHT.
- 4. SUBMIT TO CANAL COMPANY ENGINEER FOR REVIEW ON FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
- 5. GRATE TO BE GALVANIZED.



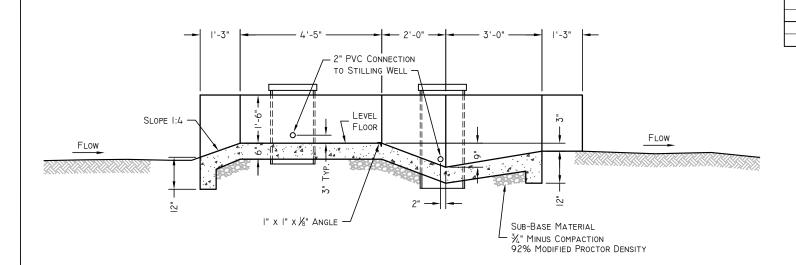
COMPANY





Notes:

- I. REINFORCING TO BE MINIMUM OF #4 REBAR @ 12 INCHES ON CENTER, EACH WAY WITH 20 INCH MINIMUM SPLICE LENGTH.
- 2. APPLICANT TO SUBMIT ACTUAL PLANS AND MATERIAL OF FLUME PRIOR TO CONSTRUCTION.



FLUME PROFILE VIEW

TABLE I HEAD-FLOW RELATIONSHIP FOR CONCRETE FLUME

HEAD Ha (FEET)	FLOW Q (CFS)		HEAD Ha (FEET)	FLOW Q (CFS)		HE I (FE
0.20	0.35	1	0.42	1.07	1	0.
0.21	0.37		0.43	1.11	1	0.
0.22	0.40	1	0.44	1.15	1	0.
0.23	0.43	ĺ	0.45	1.19	1	0.
0.24	0.46	ĺ	0.46	1.23	1	0.
0.25	0.49		0.47	1.27		0.
0.26	0.51		0.48	1.31		0.
0.27	0.54		0.49	1.35		0.
0.28	0.58	Ì	0.50	1.39		0.
0.29	0.61		0.51	1.44		0.
0.30	0.64	Ì	0.52	1.48		0.
0.31	0.68		0.53	1.52		0.
0.32	0.71		0.54	1.57		0.
0.33	0.74		0.55	1.62		0.
0.34	0.77		0.56	1.66		0.
0.35	0.80		0.57	1.70		0.
0.36	0.84		0.58	1.75		0.
0.37	0.88		0.59	1.80		0.
0.38	0.92		0.60	1.84		0.
0.39	0.95		0.61	1.88		0.
0.40	0.99		0.62	1.93		0.
0.41	1.03]	0.63	1.98		0.

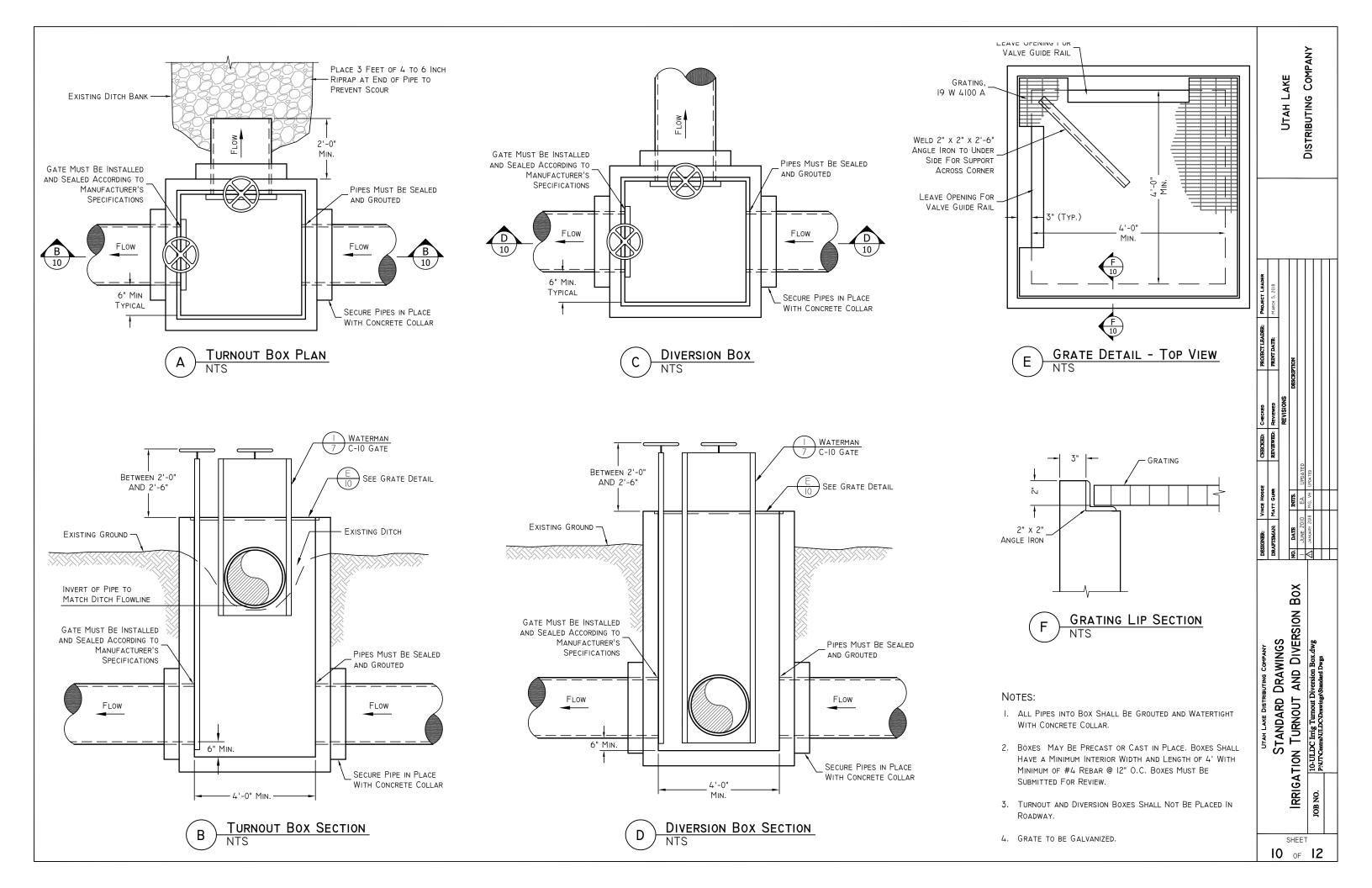
HEAD Ha (FEET)	FLOW Q (CFS)		HEAD Ha (FEET)	FLOW Q (CFS)
0.64	2.03		0.86	3.18
0.65	2.08		0.87	3.24
0.66	2.13		0.88	3.29
0.67	2.18	1	0.89	3.35
0.68	2.23	1	0.90	3.41
0.69	2.28	1	0.91	3.46
0.70	2.33	1	0.92	3.52
0.71	2.38	1	0.93	3.58
0.72	2.43]	0.94	3.64
0.73	2.48		0.95	3.70
0.74	2.53	1	0.96	3.76
0.75	2.58	1	0.97	3.82
0.76	2.63		0.98	3.88
0.77	2.68		0.99	3.94
0.78	2.74		1.00	4.00
0.79	2.80		1.01	4.06
0.80	2.85	1	1.02	4.12
0.81	2.90		1.03	4.18
0.82	2.96		1.04	4.25
0.83	3.02		1.05	4.31
0.80	3.07		1.06	4.37
0.85	3.12		1.07	4.43

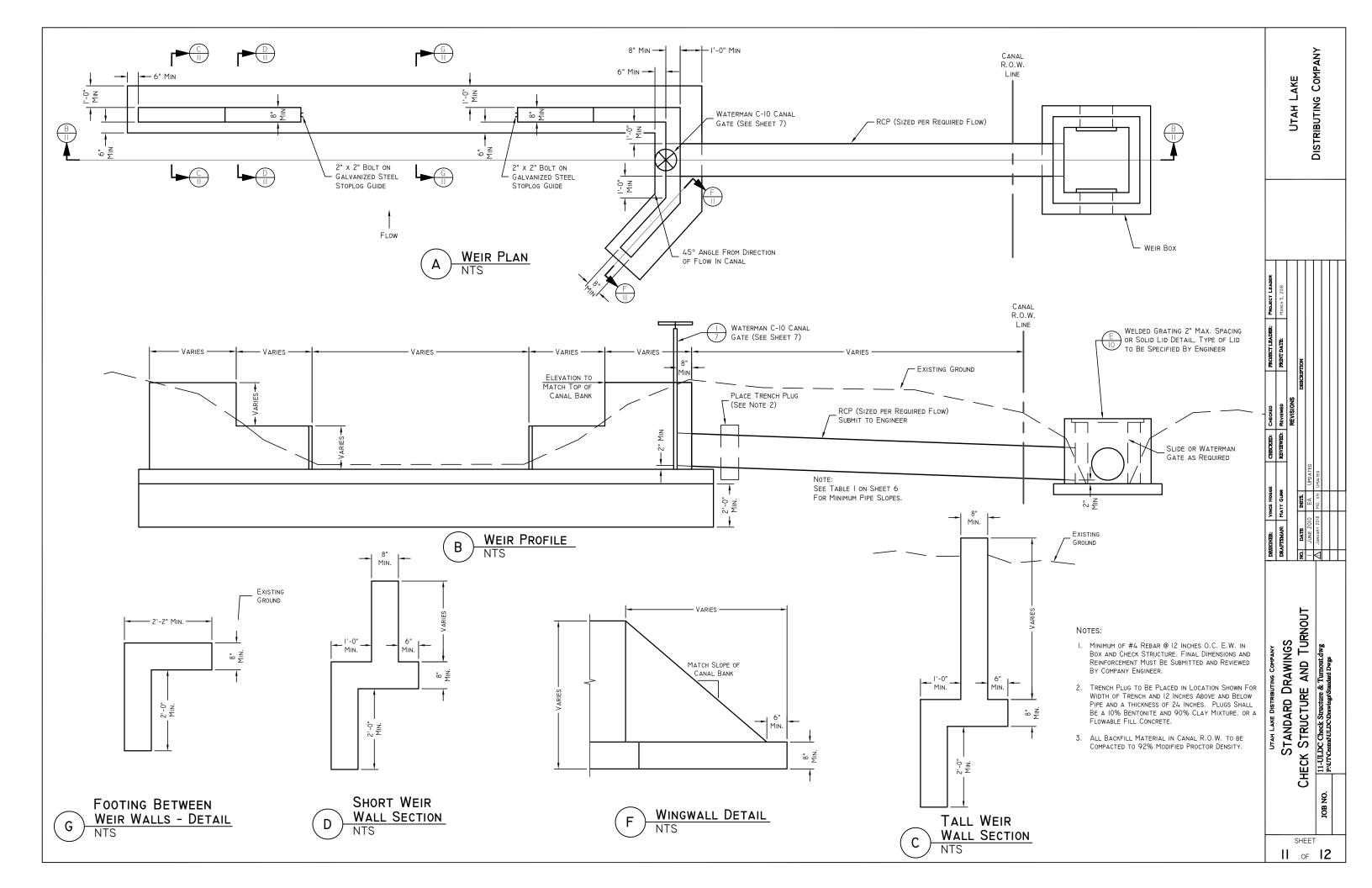
HEAD Ha FEET)	FLOW Q (CFS)	HEAD Ha (FEET)	FLOW Q (CFS)
1.08	4.50	1.30	5.96
1.09	4.56	1.31	6.03
1.10	4.62	1.32	6.10
1.11	4.68	1.33	6.18
1.12	4.75	1.34	6.25
1.13	4.82	1.35	6.32
1.14	4.88	1.36	6.39
1.15	4.94	1.37	6.46
1.16	5.01	1.38	6.53
1.17	5.08	1.39	6.60
1.18	5.15	1.40	6.68
1.19	5.21	1.41	6.75
1.20	5.28	1.42	6.82
1.21	5.34	1.43	6.89
1.22	5.41	1.44	6.97
1.23	5.48	1.45	7.04
1.24	5.55	1.46	7.12
1.25	5.62	1.47	7.19
1.26	5.69	1.48	7.26
1.27	5.76	1.49	7.34
1.28	5.82	1.50	7.41
1.29	5.89		

NOTE: THIS FLUME IS SHOWN AS AN EXAMPLE. THE EXACT FLUME DIMENSIONS & FLOW TABLE TO BE DETERMINED BY APPLICANTS ENGINEER.

UTAH LAI DISTRIBUTING C								
Project Leader	MARCH 5, 2018							
PROJECT LEADER: PROJECT LEADER	PRINT DATE:	REVISIONS	DESCRIPTION					
СНЕСКЕР	REVIEWED: REVIEWED							
CHBCKBD: CHECKED	REVIEWED:							
VINCE HOGGE	MATT GURR		INITS.) EA UPDATED	JANUARY 2018 MG, VH UPDATED			
DESIGNER:	DRAFTSMAN: MATT GURR		O. DATE	1 JUNE 2010	A JANUARY 201			
UTAH LAKE DISTRIBUTING COMPANY	SOUTH AND GOAGIAATO	STANDARD DRAWINGS	L-FT PADCHALL FLIME		100_III DC 1_Fr Parshall Finme dwo	PAITACentral III De Descripce Agendand Dunce		
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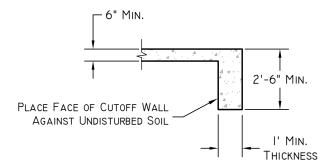
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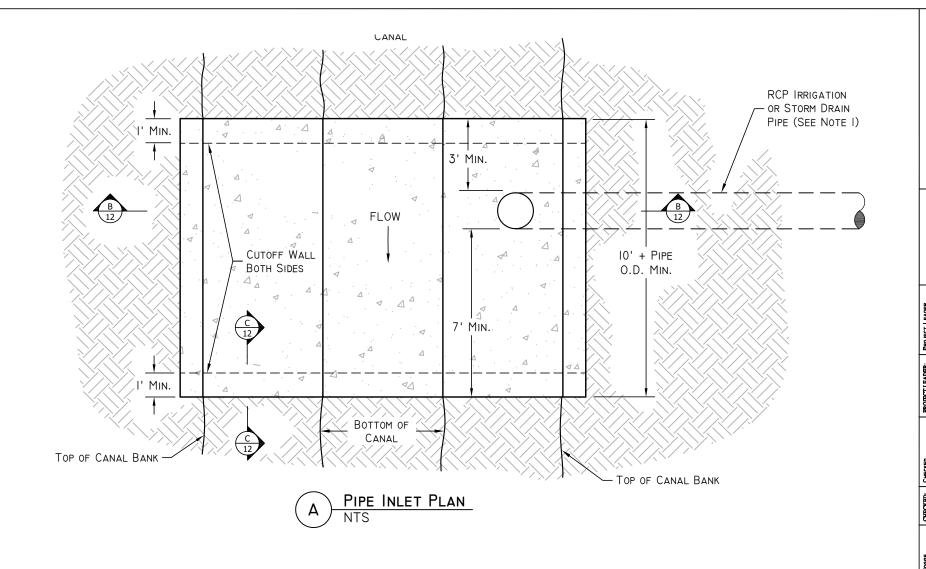
Notes:

- I. ALL PLANNED STORM DRAIN DISCHARGES MUST BE PRE-APPROVED AND HAVE SIGNED AGREEMENT WITH ALL PARTIES (INCLUDING SALT LAKE COUNTY FLOOD CONTROL IF APPLICABLE).
- PRE-TREATMENT TO STORM DRAIN PIPE DISCHARGE IS REQUIRED.
 TREATMENT AND DISCHARGE RATE TO BE DETERMINED BY
 APPLICANTS ENGINEER AND SALT LAKE COUNTY FLOOD CONTROL.
- 3. ALL STORM DRAIN PIPES SHALL BE RCP.
- 4. DRAWING IS FOR PIPE ENTERING CANAL AT 90°, OTHER DIMENSIONS MAY APPLY FOR VARYING ANGLES.
- 5. THE LENGTH OF CONCRETE IN CHANNEL IS 10 FEET PLUS THE OUTER DIAMETER OF THE DISCHARGE PIPE.
- 6. PIPE TO BE CUT FLUSH WITH CONCRETE.



NOTE: ENGINEER TO DETERMINE REBAR SIZE AND SPACING IN CUTOFF WALL.

C CUTOFF WALL CROSS SECTION NTS



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