

Spanish Fork South Irrigation Company

Typical Drawings

Sheet Index

- 1
- COVER SHEET
- 2
- SFSIC NOTES
- 3
- TRASHRACK AND INLET STRUCTURE
- 4
- OPEN DITCH TO PIPE TRANSITION AND STRUCTURE
- 5
- WEIR TURNOUT GATE
- 6
- 3-FOOT CIPOLLETTI WEIR
- 7
- I-FOOT PARSHALL FLUME
- 8
- 90° V-NOTCH WEIR
- 9
- IRRIGATION TURNOUT AND DIVERSION BOXES
- 10
- DIRECTIONAL DRILLING AND MICROTRENCHING DETAILS
- 11
- BOX CULVERT DETAILS
- 12
- OPEN CUT DETAILS
- 13
- CONCRETE LINER
- 14
- LARGE DIAMETER PIPE DETAILS
- 15
- SPIROLITE PIPE CONNECTION DETAILS
- 16
- FENCE DETAILS
- 17
- TRENCH DETAIL
- 18
- BORING DETAILS
- 19
- WATERMAN C-10 CANAL GATE

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

SPANISH FORK SOUTH
IRRIGATION COMPANY

SPANISH FORK SOUTH IRRIGATION COMPANY									
TYPICAL DRAWINGS									
COVER SHEET, SHEET INDEX									
JOB NO.		01- Cover Sheet.dwg							
21073		0321073 SFSIC Reviews/Standard Drawings							
		LAYOUT: Cover							

SPANISH FORK SOUTH IRRIGATION COMPANY (SFSIC) NOTES

GENERAL

- ☐ NOTIFICATION MUST BE GIVEN AT LEAST 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION WORK AND RE-NOTIFICATION OF RE-COMMENCEMENT OF WORK FOLLOWING ANY CESSATION OF WORK FOR MORE THAN 4 (FOUR) DAYS. CALL KYLE DEVANEY AND THE CANAL WATER MASTER. FAILURE TO DO SO MAY RESULT IN A \$5,000 FINE.
- ☐ CONTACT INFORMATION FOR FRANSON CIVIL AND SFSIC:

☐ KYLE DEVANEY, P.E., FRANSON CIVIL ENGINEERS, 801-756-0309

☐ JOHN LUDLOW, PRESIDENT, SPANISH FORK SOUTH IRRIGATION COMPANY, 801-836-8894

☐ BRYAN OTTESEN, WATER MASTER, SFSIC CANAL, 801-369-6329
- ☐ ANY CHANGES IN DESIGN DRAWINGS AFTER THE ENCROACHMENT AGREEMENT HAS BEEN EXECUTED MUST BE REVIEWED AND ACCEPTED BY FRANSON CIVIL AND SFSIC.
- ☐ WORK CANNOT INTERFERE WITH DELIVERY OF WATER. CONSTRUCTION WITHIN CANAL CORRIDORS THAT IMPACTS THE CANAL OR OPERATION & MAINTENANCE ROAD (O&M ROAD) MUST BE COMPLETED BETWEEN OCTOBER 31 AND APRIL 1. FAILURE TO COMPLY MAY RESULT IN AGREEMENT TERMINATION AND MONETARY FINES.
- ☐ ALL CONSTRUCTION WITHIN THE CANAL CORRIDOR MUST BE COMPLETED TO SFSIC STANDARDS.
- ☐ IF DISTURBED, THE CANAL O&M ROAD SHALL BE REINSTALLED FOLLOWING CONSTRUCTION. O&M ROAD MUST BE AVAILABLE FOR USE BY CANAL PERSONNEL NO LATER THAN APRIL 1.

☐ THE O&M ROAD SHALL BE GRADED AT A 2% SLOPE AWAY FROM THE CANAL.

☐ AFTER PLACING AND COMPACTING NATIVE MATERIAL, PLACE A MINIMUM OF TWO INCHES OF COMPACTED ROADBASE ON ROAD SURFACE. COMPACTION SHALL BE 95% STANDARD PROCTOR DENSITY.
- ☐ 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 SITE. ANY DAMAGE TO THE CANAL CORRIDOR CAUSED BY CONSTRUCTION ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND APPLICANT.
- ☐ ALL BACKFILL MATERIALS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- ☐ APPLICANT IS REQUIRED TO PERFORM COMPACTION TESTING AT APPLICANT’S COST. IF REQUESTED, COMPACTION TEST RESULTS SHALL BE SUBMITTED TO FRANSON CIVIL ENGINEERS. ALL FAILED MATERIAL SHALL BE REMOVED AND COMPACTED TO SPECIFICATIONS. TESTING MUST BE PERFORMED BY A LICENSED SOILS LAB.
- ☐ 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.
- ☐ APPLY SWELLSTOP, WATERSTOP RX, OR WFIC ENGINEER APPROVED EQUIVALENT TO ALL CONCRETE COLD JOINTS TO PREVENT WATER SEEPAGE.
- ☐ PVC, WATERSTOP, OR EQUIVALENT IS REQUIRED IN ALL JOINTS OF CAST-IN-PLACE CONCRETE TO PREVENT SEEPAGE BETWEEN THE SURFACES.
- ☐ PIPES, CONDUITS, OR OTHER SIMILAR FACILITIES ARE NOT ALLOWED TO BE INSTALLED OVER THE CANAL CHANNEL. TREES, OR OTHER UTILITY FACILITIES ARE NOT ALLOWED TO BE INSTALLED IN SFSIC CORRIDORS. TURNOUTS, OVERHEAD POWER LINES, ETC. CAN BE EXCEPTIONS.
- ☐ FENCES DISTURBED DURING CONSTRUCTION ACTIVITIES MUST BE REPLACED AND RETURNED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
- ☐ NEITHER SFSIC NOR FRANSON CIVIL CAN VERIFY THE LOCATIONS OF UNDERGROUND FACILITIES. BLUE STAKES SHOULD ALWAYS BE CALLED BEFORE DIGGING (1-800-662-4111).

PIPES

- ☐ ALL NEW PIPES MUST BE DOCUMENTED BY VIDEO CAMERA AFTER INSTALLATION AND BACKFILL. ANY PROBLEMS WITH JOINTS, LEVELS, SLOPES, ETC. DISCOVERED BY THE VIDEO TECHNICIANS MUST BE REPAIRED. A DIGITAL COPY OF THE VIDEO MUST BE SUBMITTED TO FRANSON CIVIL.
- ☐ PIPES OR OTHER UTILITIES RUNNING PARALLEL TO THE IRRIGATION PIPE IN A SHARED EASEMENT SHALL BE PLACED A MINIMUM OF 5 FEET HORIZONTALLY DISTANCED FROM THE IRRIGATION PIPE.
- ☐ PIPES CROSSING PERPENDICULARLY OVER OR UNDER THE IRRIGATION PIPE SHALL HAVE A MINIMUM 1 FOOT VERTICAL CLEARANCE.
- ☐ BEFORE BACKFILLING THE PIPES, THE CONTRACTOR MUST NOTIFY KYLE DEVANEY OF FRANSON CIVIL ENGINEERS SO A GPS SURVEY OF THE LOCATION AND ELEVATION OF THE INSTALLED PIPELINES CAN BE PERFORMED.
- ☐ PIPES ENTERING BOXES SHALL BE CONCRETED ON THE OUTSIDE AND GROUTED ON THE INSIDE.

BOX AND PIPE CULVERTS

- ☐ CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (BETWEEN APRON AND UNDISTURBED CANAL) SHALL BE REPLACED WITH A 12 INCH MINIMUM THICKNESS OF 10⁻⁶ CM/SEC PERMEABILITY CLAY MATERIAL IN 6-INCH MAXIMUM LIFTS.
- ☐ COMPACTION AROUND THE BOX CULVERTS TO MEET MANUFACTURER REQUIREMENTS OR A MINIMUM OF 95% STANDARD PROCTOR DENSITY.
- ☐ CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM.
- ☐ OPEN-CUT TRENCHES FOR THE CUTOFF WALLS SHALL BE CUT AT A MINIMUM OF 2 HORIZONTAL TO 1 VERTICAL SO THAT BACKFILL CAN BE PROPERLY COMPACTED.
- ☐ IF EXTENDING AN EXISTING BOX CULVERT, WATERSTOP RX, SWELLSTOP, OR AN APPROVED EQUIVALENT SHALL BE PLACED BETWEEN THE OLD CULVERT AND THE NEW CULVERT TO PREVENT SEEPAGE. MASTIC IS NOT ACCEPTABLE.
- ☐ CONDUITS SHOWN ON THESE DRAWINGS DO NOT GIVE PERMISSION FOR THE CONDUIT TO BE OCCUPIED BY AN ENTITY OTHER THAN THE ORIGINAL APPLICANT. EACH ENTITY CROSSING THE CANAL MUST APPLY FOR, AND RECEIVE, AN ENCROACHMENT AGREEMENT FROM SFSIC.
- ☐ SIGNS MUST BE PLACED AT EACH ENTRANCE TO THE CANAL O&M ROAD THAT STATE:

☐ NO TRESPASSING. WARNING: CANAL MAINTENANCE ROAD, AUTHORIZED PERSONNEL ONLY. NO SWIMMING OR TUBING.

TURNOUT/WEIR

- ☐ COMPACTION OF ALL REPLACED EMBANKMENT MATERIAL SHALL BE IMPERMEABLE MATERIAL, MEETING A STANDARD PROCTOR DENSITY OF 95%.
- ☐ A TRENCH PLUG IS REQUIRED BEHIND THE HEAD WALL. TRENCH PLUG TO BE PLACED IN LOCATION SHOWN FOR WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW THE PIPE, AND A THICKNESS OF 24 INCHES.
- ☐ TRENCH PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A No. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL MUST THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKFILL MATERIAL AT A RATIO OF ONE-PART BENTONITE TO NINE-PARTS BACKFILL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.

INLET AND OUTLET STRUCTURES

- ☐ CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (BETWEEN APRON AND UNDISTURBED CANAL) SHALL BE REPLACED WITH A 12 INCH MINIMUM THICKNESS OF 10⁻⁶ CM/SEC PERMEABILITY CLAY MATERIAL IN 6-INCH MAXIMUM LIFTS.
- ☐ CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM.

IRRIGATION/CLEANOUT BOXES AND MANHOLES

- ☐ KNOCK-OUT BOXES ARE NOT ALLOWED. ALL BOXES SHALL BE PRE-CAST WITH CORED OPENINGS FOR THE PIPES OR SHALL BE CAST-IN-PLACE.
- ☐ IRRIGATION BOXES SHALL NOT BE BURIED. THEY SHALL EXTEND TO THE SURFACE OF THE FINAL GRADE. ANY EXISTING BOXES THAT WILL NOT EXTEND TO THE FINAL GRADE SURFACE SHALL BE EXTENDED TO MATCH THE FINAL GRADE.

OPEN CUT OF CANAL

- ☐ CONTRACTOR TO NOTIFY KYLE DEVANEY, P.E., OF FRANSON CIVIL ENGINEERS WHEN TRENCH PLUGS ARE INSTALLED. VERIFICATION OF TRENCH PLUG COMPLETION MUST BE PERFORMED BY FRANSON CIVIL BEFORE BACKFILLING. KYLE CAN BE REACHED AT 801-756-0309.
- ☐ TRENCH PLUGS ARE TO BE PLACED AT EACH END OF THE CASING.
- ☐ TRENCH PLUGS ARE TO EXTEND THE WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW CASING PIPES, AND WITH A THICKNESS OF 24 INCHES.
- ☐ TRENCH PLUGS SHALL BE 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A No. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL MUST THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKFILL MATERIAL AT A RATIO OF ONE-PART BENTONITE TO NINE-PARTS BACKFILL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.
- ☐ CANAL EMBANKMENT SHALL BE SHAPED TO MATCH THE EXISTING CANAL PRISM.
- ☐ SILT COLLECTS AT THE BOTTOM OF THE CANAL. THE INSTALLATION OF THE CONCRETE LINER SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE CURRENT SILT LAYER.
- ☐ REBAR SHALL BE A MINIMUM OF #4 BAR AT 12 INCHES ON CENTER.
- ☐ A TWO-FOOT-DEEP CONCRETE CUTOFF WALL IS REQUIRED ON BOTH ENDS OF THE CONCRETE LINER.

IF CANAL IS EARTHEN:

- ☐ THE CANAL FLOOR AND EMBANKMENT MATERIAL REMOVED FOR EXCAVATION (EXCLUDING UNDER CONCRETE LINER) SHALL BE REPLACED WITH A 12-INCH MINIMUM THICKNESS OF 10⁻⁶ CM/SEC PERMEABILITY CLAY MATERIAL, IN 6-INCH MAXIMUM LIFTS.
- ☐ ALL REPLACED MATERIALS SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- ☐ THE TRENCH THROUGH THE CANAL MAY BE CUT AS LITTLE AS ¼ HORIZONTAL TO 1 VERTICAL.

IF CANAL IS CONCRETE-LINED:

- ☐ THE EXISTING CONCRETE SECTION MUST BE SAWCUT TO GIVE A CLEAN EDGE FOR THE REPLACEMENT SECTION.
- ☐ THE TRENCH THROUGH THE CANAL MAY BE CUT AS LITTLE AS ¼ HORIZONTAL TO 1 VERTICAL TO MINIMIZE THE AMOUNT OF CONCRETE LINER THAT NEEDS TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT COMPACTION WILL NOT BE AFFECTED.
- ☐ EMBANKMENT MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. NATIVE MATERIAL MAY BE USED.

BORING

- ☐ CONTRACTOR TO NOTIFY KYLE DEVANEY, P.E., OF FRANSON CIVIL ENGINEERS WHEN TRENCH PLUGS ARE INSTALLED. VERIFICATION OF TRENCH PLUG COMPLETION MUST BE PERFORMED BY FRANSON CIVIL BEFORE BACKFILLING. KYLE CAN BE REACHED AT 801-756-0309.
- ☐ TRENCH PLUGS ARE TO BE PLACED AT EACH END OF THE CASING.
- ☐ TRENCH PLUGS ARE TO EXTEND THE WIDTH OF TRENCH, 12 INCHES ABOVE AND BELOW CASING PIPES, AND WITH A THICKNESS OF 24 INCHES.
- ☐ TRENCH PLUGS SHALL BE 10% BENTONITE AND 90% CLAY MIXTURE. AT LEAST 40% OF THE BACKFILL MATERIAL MUST PASS A No. 200 U.S. STANDARD SIEVE PRIOR TO ADDING BENTONITE POWDER. THE BACKFILL MATERIAL MUST THEN BE AMENDED BY ADDING AND THOROUGHLY MIXING COMMERCIAL BENTONITE POWDER WITH THE BACKFILL MATERIAL AT A RATIO OF ONE-PART BENTONITE TO NINE-PARTS BACKFILL MATERIAL. IMPERMEABLE FLOWABLE FILL IS AN ACCEPTABLE ALTERNATIVE.
- ☐ BORE PIT COMPACTION SHALL BE 95% STANDARD 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.
- ☐ SILT COLLECTS AT THE BOTTOM OF THE CANAL. THE INSTALLATION OF THE CONCRETE LINER SHALL MATCH THE BOTTOM OF THE CANAL AND NOT THE CURRENT SILT LAYER.
- ☐ REBAR FOR THE CANAL LINER SHALL BE A MINIMUM OF #4 BAR AT 12 INCHES ON CENTER.
- ☐ A TWO-FOOT-DEEP CONCRETE CUTOFF WALL IS REQUIRED ON BOTH ENDS OF THE CONCRETE LINER.

DIRECTIONAL DRILLING AND MICROTRENCHING

- ☐ WORK CANNOT INTERFERE WITH DELIVERY OF IRRIGATION WATER. INSTALLATION ACTIVITIES CAN TAKE PLACE AT ANY TIME PROVIDED SFSIC’S ACCESS TO OPERATION, MAINTENANCE, AND REPLACEMENT OF IRRIGATION FACILITIES IS NOT IMPACTED.
- ☐ BORE PITS MUST BE LOCATED OUTSIDE THE CANAL RIGHT-OF-WAY.
- ☐ 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.
- ☐ BORE PIT COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

EASEMENTS

ADD THE FOLLOWING NOTE TO THE DRAWINGS/PLAT:

- ☐ NO FOLIAGE, STRUCTURES, OR OTHER UNAUTHORIZED IMPROVEMENTS ARE ALLOWED IN SPANISH FORK SOUTH IRRIGATION COMPANY EASEMENT.

SPANISH FORK SOUTH
IRRIGATION COMPANY

KYLE DEVANEY
APRIL 2, 2025

PROJECT LEADER:
FRONT DATE

CHECKED:
REVIEWED

CHECKED:
REVIEWED

KYLE DEVANEY
MATT GURR

DESIGNER:
DRAFTSMAN:

NO
DATE

INTS

DESCRIPTION

REVISIONS

REVISIONS

REVISIONS

REVISIONS

REVISIONS

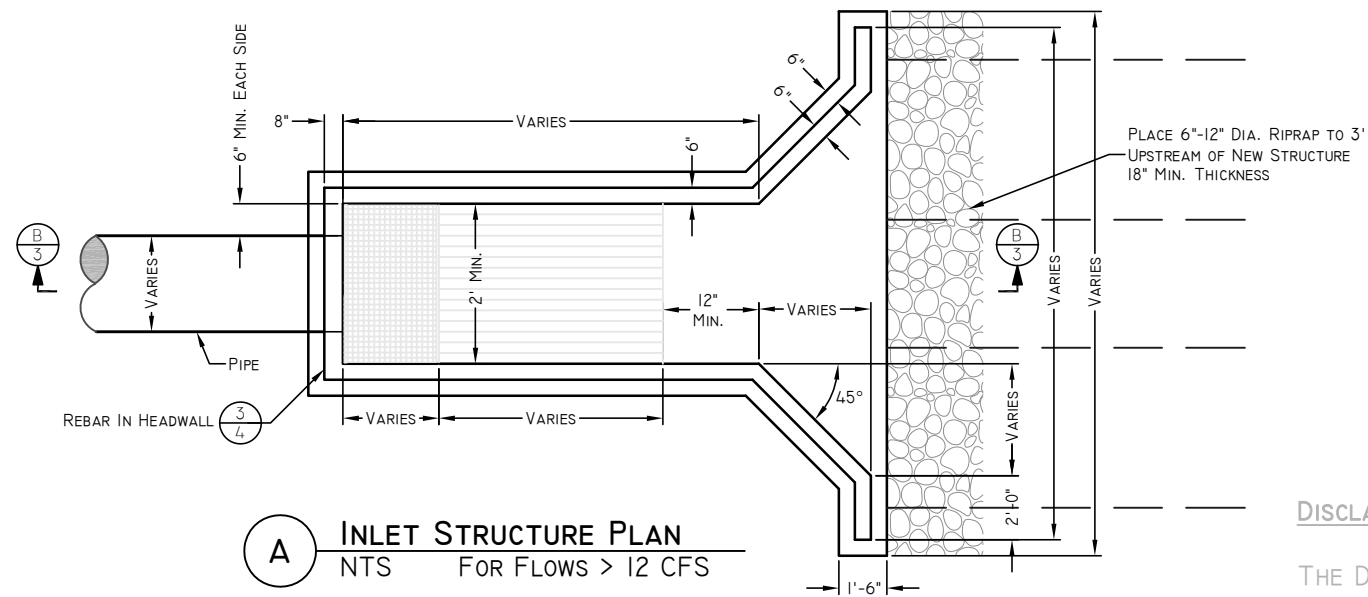
SPANISH FORK SOUTH IRRIGATION COMPANY
TYPICAL DRAWINGS
SFSIC NOTES

02-SFSIC Notes.dwg
03/10/23 SFSIC Review/Standard Drawings

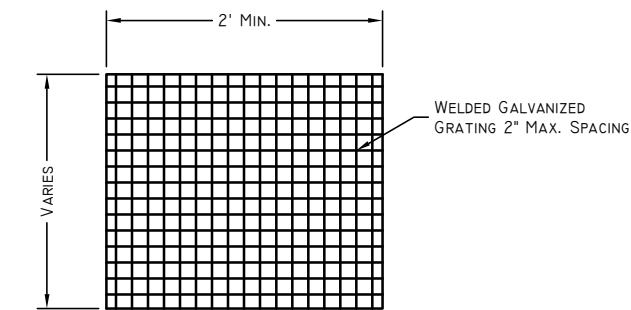
LAYOUT: Cover

JOB NO.
21073

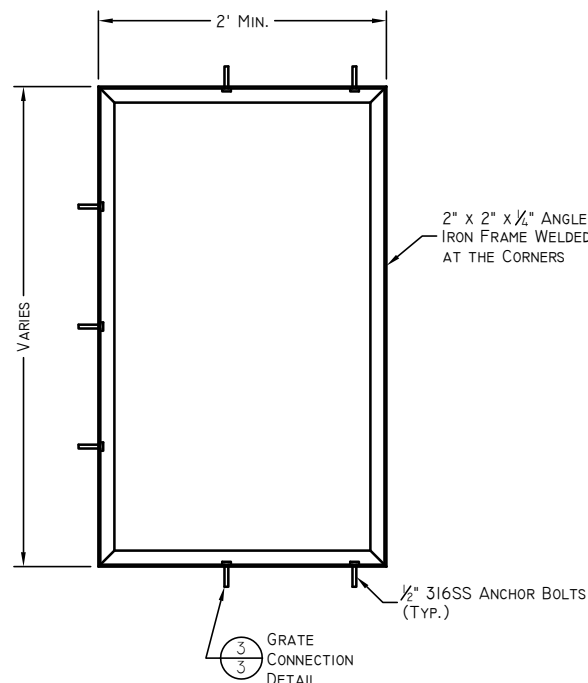
SHEET
2 OF 19



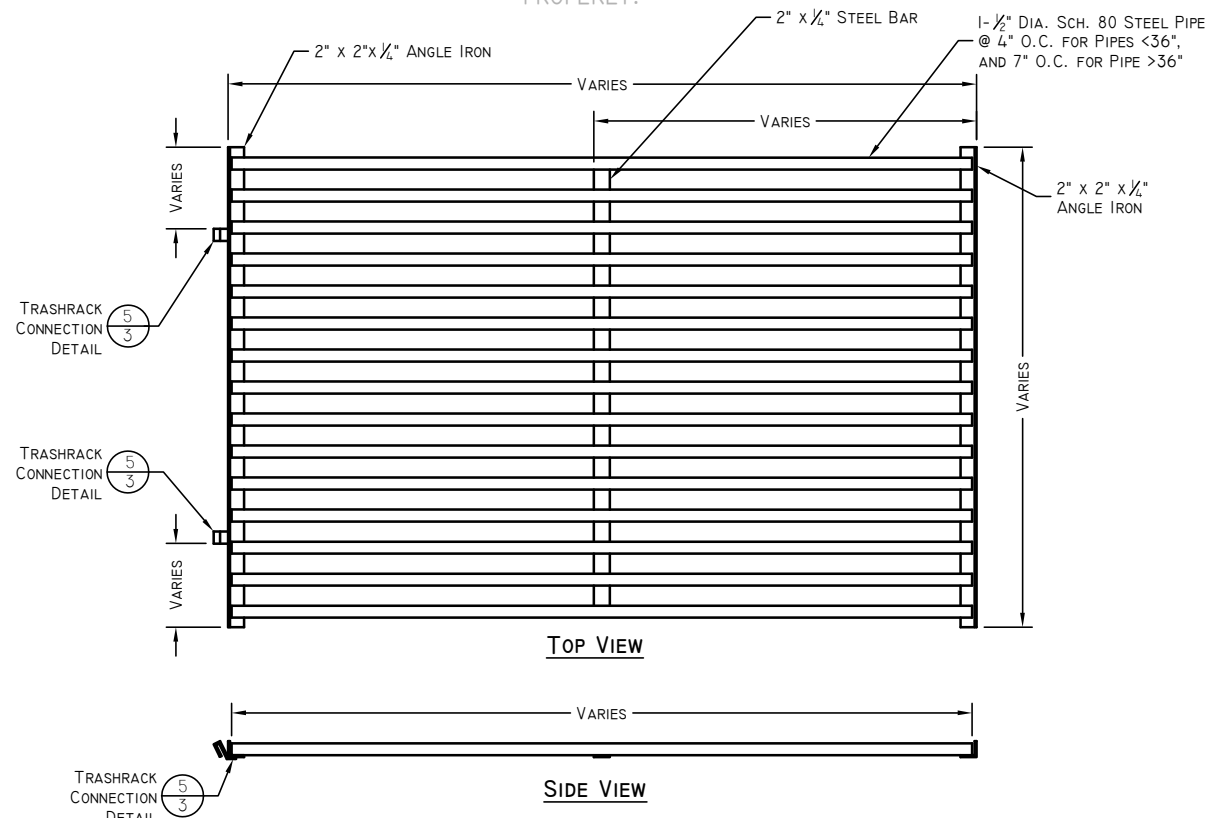
A INLET STRUCTURE PLAN
NTS FOR FLOWS > 12 CFS



1 GRATE DETAIL
NTS



2 GRATE FRAME DETAIL
NTS



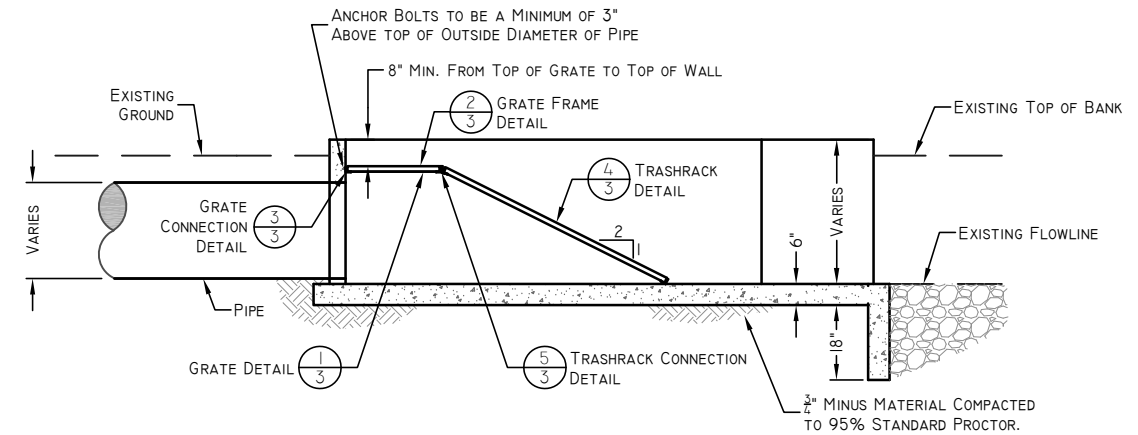
4 TRASHRACK DETAIL
NTS

NOTES:

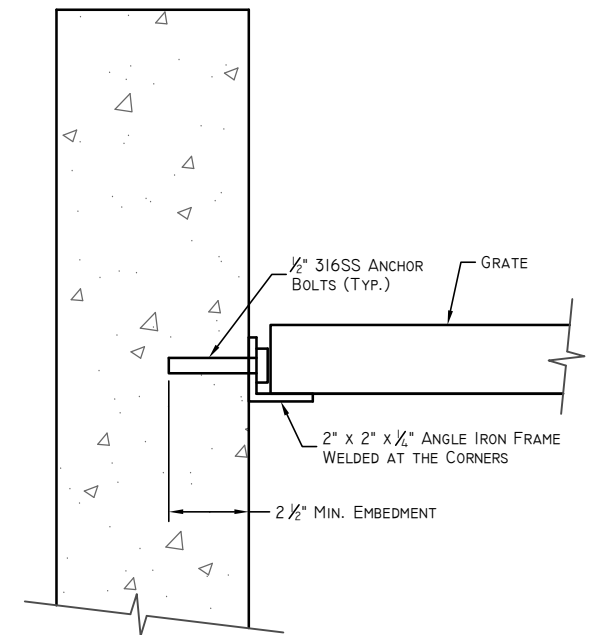
1. IF BOX IS CAST IN PLACE, REBAR TO BE PLACED AT 12 INCHES ON CENTER (O.C.) EACH WAY (E.W.) MINIMUM.
2. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
3. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.
4. ENTIRE TRASHRACK TO BE HOT DIPPED GALVANIZED.
5. MINIMUM TWO GRATES TO BE INSTALLED. SUBMIT TO CANAL COMPANY ENGINEER FOR APPROVAL.

TABLE 1 FOR DETAIL 5

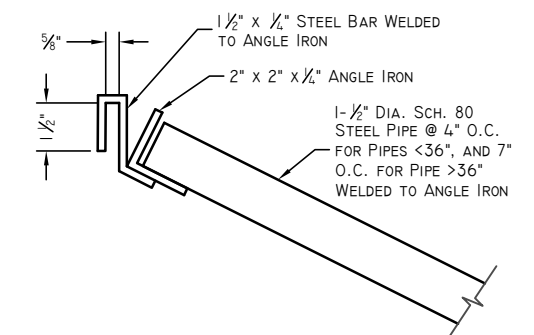
TRASHRACK CONNECTIONS REQUIRED	
PIPE SIZE	NUMBER OF CONNECTIONS REQUIRED
24"	4
30"	5



B INLET STRUCTURE PROFILE
NTS



3 GRATE CONNECTION DETAIL
NTS

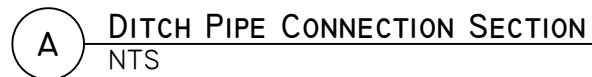


5 TRASHRACK CONNECTION DETAIL
NTS

DISCLAIMER:

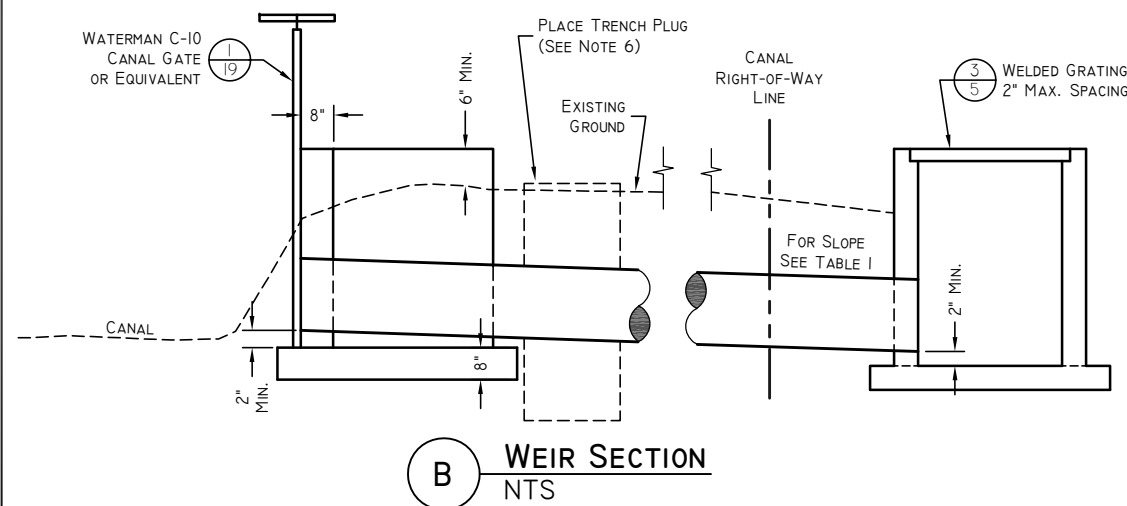
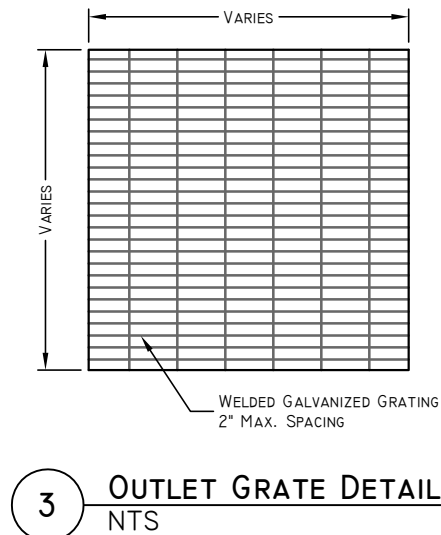
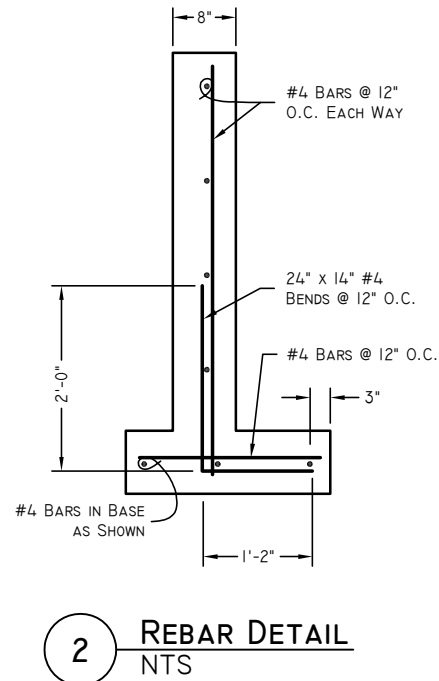
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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

DESIGNER:	DRAFTSMAN:	CHECKED:	REVIEWED:	PROJECT LEADER:	DATE:
KYLE DEVANEY	MATT GUNN	KYLE DEVANEY	KYLE DEVANEY	KYLE DEVANEY	APRIL 2, 2025
REVISIONS					
NO.	DATE	NTS	DESCRIPTION		



4 REBAR IN FOOTING OF PIPE HEADWALL

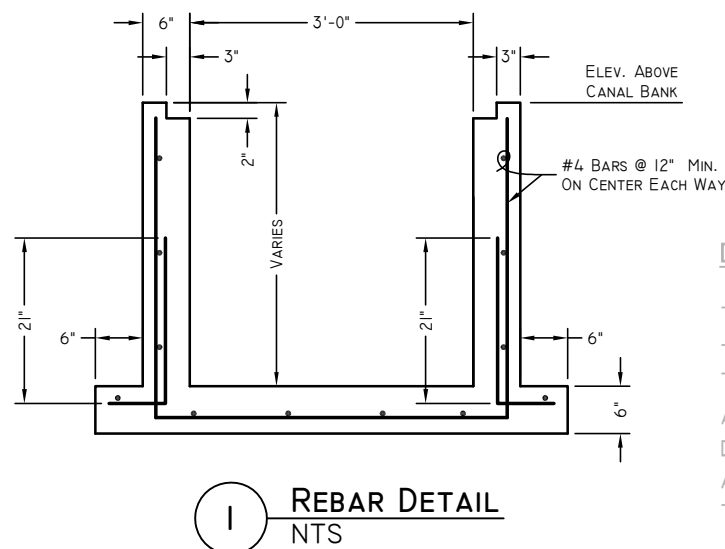
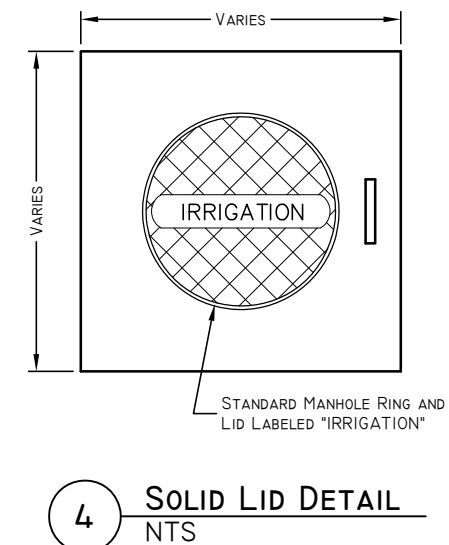
[illegible]



- ## NOTES:
1. PIPE NOT TO BE PLACED IN DRIVEWAYS, ROADS, OR OTHER TRAFFIC AREAS.
 2. ALL PIPES INTO BOXES SHALL BE GROUTED AND WATERTIGHT.
 3. BOX WALL THICKNESS AND REINFORCEMENT ARE DEPENDENT ON SITE CONDITIONS AND DEPTH. MINIMUM SIZE AS SHOWN.
 4. DIMENSIONS SHOWN ON WALLS AND BOXES ARE MINIMUM SIZE. SPECIFIC SITE CONDITIONS OF BOXES AND WALLS MAY REQUIRE ADDITIONAL THICKNESS OR WIDTH.
 5. TRENCH PLUG TO BE PLACED IN LOCATION SHOWN FOR WIDTH OF TRENCH AND 12 INCHES ABOVE AND BELOW PIPE AT A THICKNESS OF 24 INCHES. PLUGS SHALL BE A 10% BENTONITE AND 90% CLAY MIXTURE.
 6. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING.

TABLE I

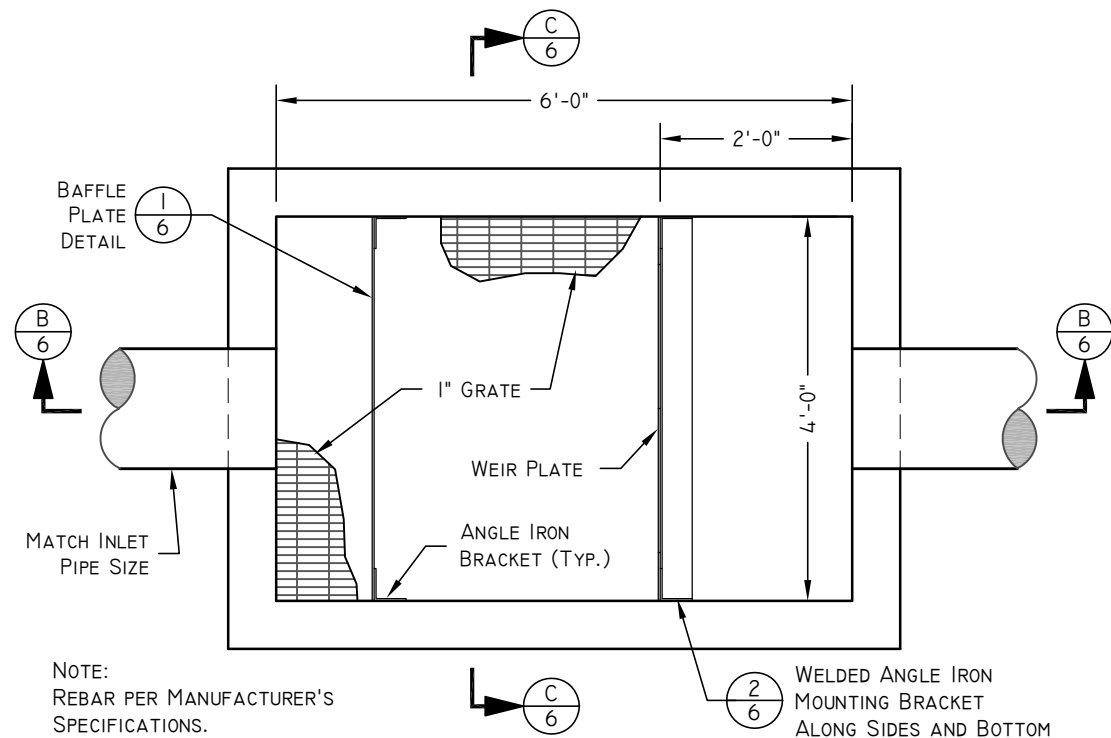
MINIMUM PIPE SLOPES		
PIPE SIZE	MIN. SLOPE, FT/FT	MIN. SLOPE, %
24"	0.0008	.08%
30"	0.00058	.058%



DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

[illegible]

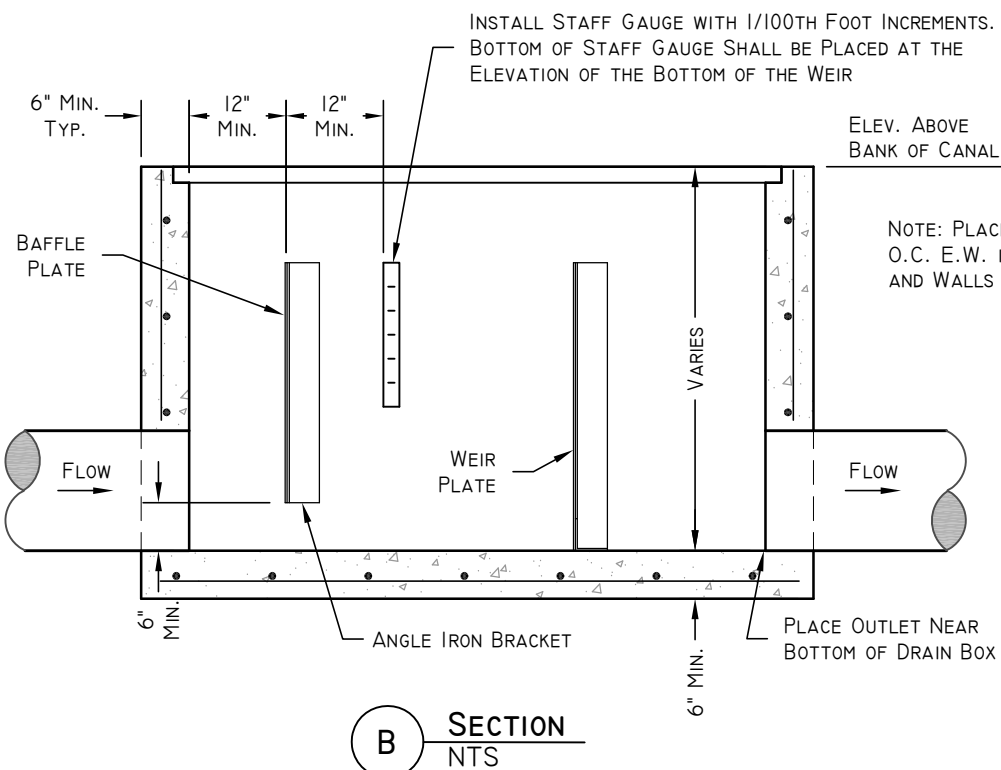


NOTE:
REBAR PER MANUFACTURER'S
SPECIFICATIONS.

A PLAN VIEW
NTS

DISCLAIMER:

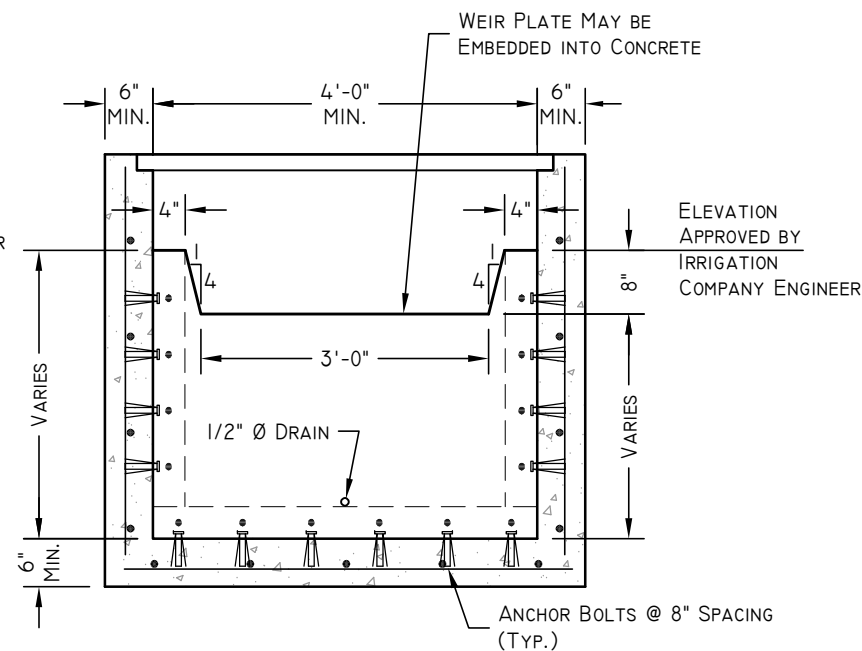
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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



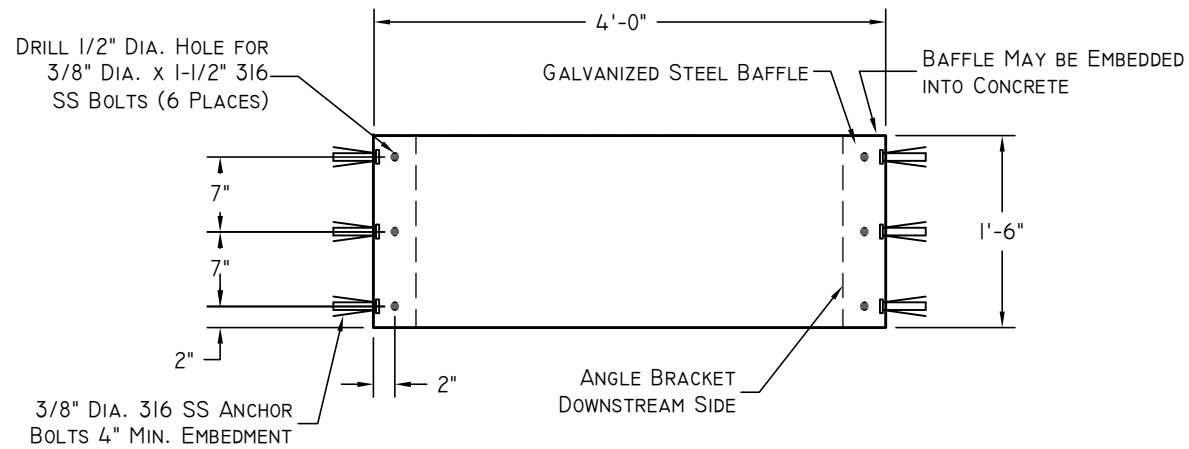
B SECTION
NTS

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

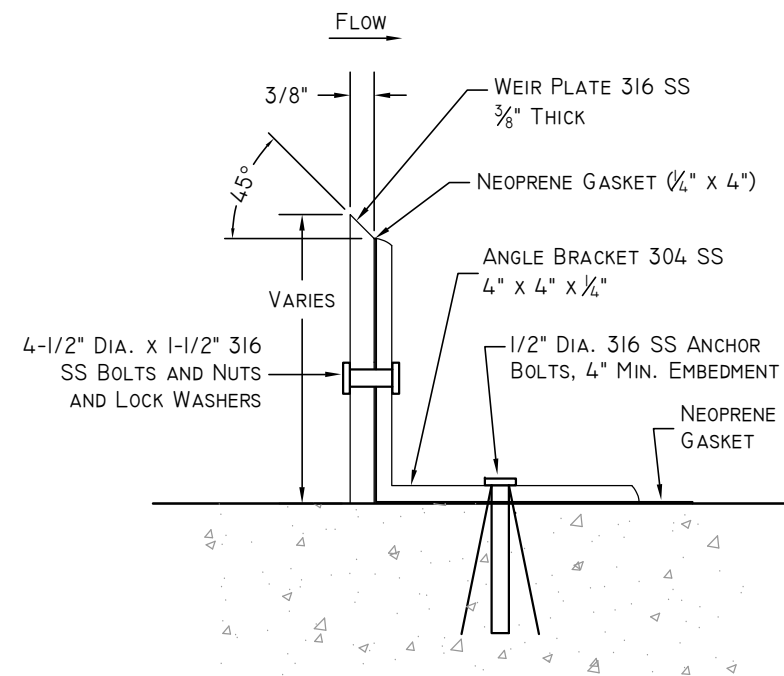
H (FT.)	Q (CFS)
0.2	0.90
0.3	1.66
0.4	2.56
0.5	3.57
0.6	4.69
0.66	5.42



C SECTION
NTS



I BAFFLE PLATE DETAIL
NTS



2 ANGLE IRON DETAIL
NTS

NOTES:

1. IF BOX IS CAST IN PLACE REBAR TO BE PLACED AT 12" O.C. E.W. MINIMUM.
2. DETAILS FOR CAST IN PLACE BOX SEE **1/5**.
3. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
4. SUBMIT TO IRRIGATION COMPANY ENGINEER FOR APPROVAL ON FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
5. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING.

SPANISH FORK SOUTH
IRRIGATION COMPANY

KYLE DEVANEY

PROJECT LEADER

FRONT DATE

CHECKED

CHECKED

DESIGNER

DRAFTSMAN

DATE

NO.

DESCRIPTION

REVISIONS

NTS

SHEET

6

OF

19

SPANISH FORK SOUTH IRRIGATION COMPANY

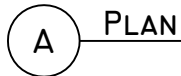
TYPICAL DRAWINGS

3 FOOT CIPOLETTI WEIR

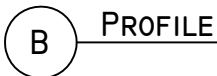
06-3 Foot Cipoletti Weir.dwg
03/21/23 SFSIC Review/Standard Drawings
LAYOUT: Details (11x17)

JOB NO.

21073



THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH CROSSING IS DESIGNED PROPERLY.



HEAD H_a (Feet)	FLOW Q (cfs)
0.86	3.18
0.87	3.24
0.88	3.29
0.89	3.35
0.90	3.41
0.91	3.46
0.92	3.52
0.93	3.58
0.94	3.64
0.95	3.70
0.96	3.76
0.97	3.82
0.98	3.88
0.99	3.94
1.00	4.00
1.01	4.06
1.02	4.12
1.03	4.18
1.04	4.25
1.05	4.31
1.06	4.37
1.07	4.43
1.08	4.50
1.09	4.56
1.10	4.62
1.11	4.68
1.12	4.75
1.13	4.82
1.14	4.88
1.15	4.94
1.16	5.01
1.17	5.08
1.18	5.15
1.19	5.21
1.20	5.28
1.21	5.34
1.22	5.41
1.23	5.48
1.24	5.55
1.25	5.62
1.26	5.69
1.27	5.76
1.28	5.82
1.29	5.89
1.30	5.96
1.31	6.03
1.32	6.10
1.33	6.18
1.34	6.25
1.35	6.32
1.36	6.39
1.37	6.46
1.38	6.53
1.39	6.60
1.40	6.68
1.41	6.75
1.42	6.82
1.43	6.89
1.44	6.97
1.45	7.04
1.46	7.12
1.47	7.19
1.48	7.26
1.49	7.34
1.50	7.41

[illegible]

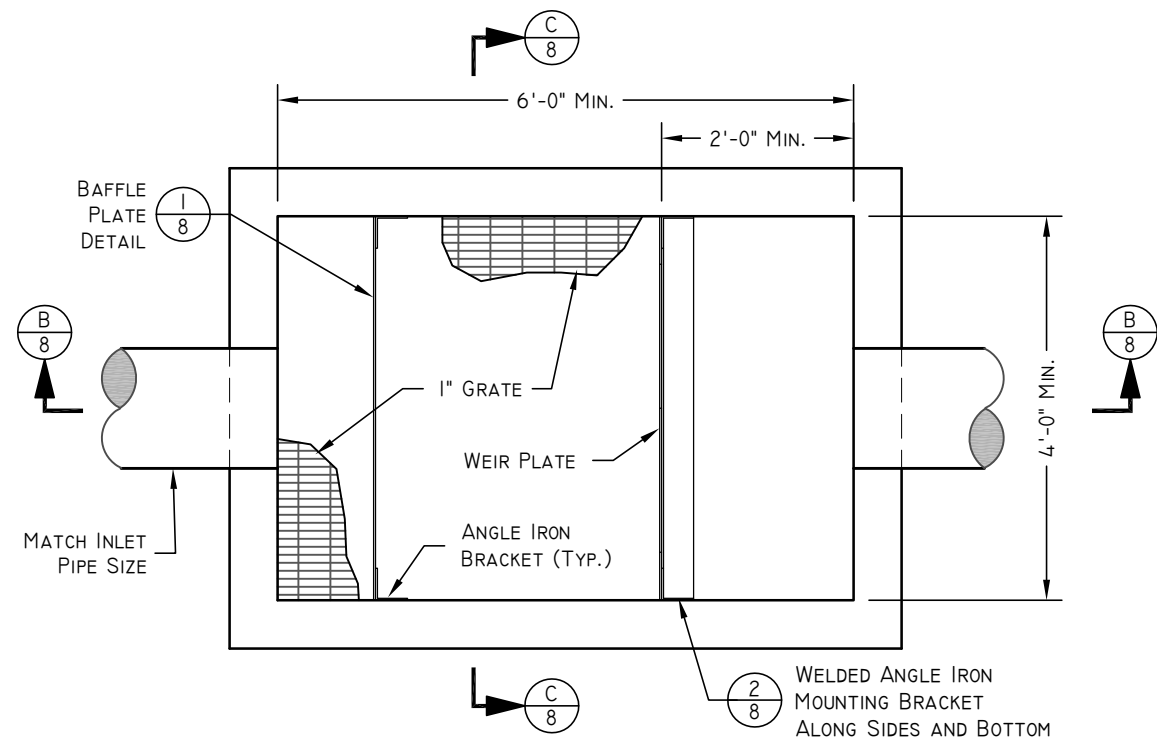
SPANISH FORK SOUTH IRRIGATION COMPANY

TYPICAL DRAWINGS

07- 1 foot Parshall Flume.dwg
O:\21073 SFSIC Reviews\Standard Drawings

I AVOIET: 11 x 17

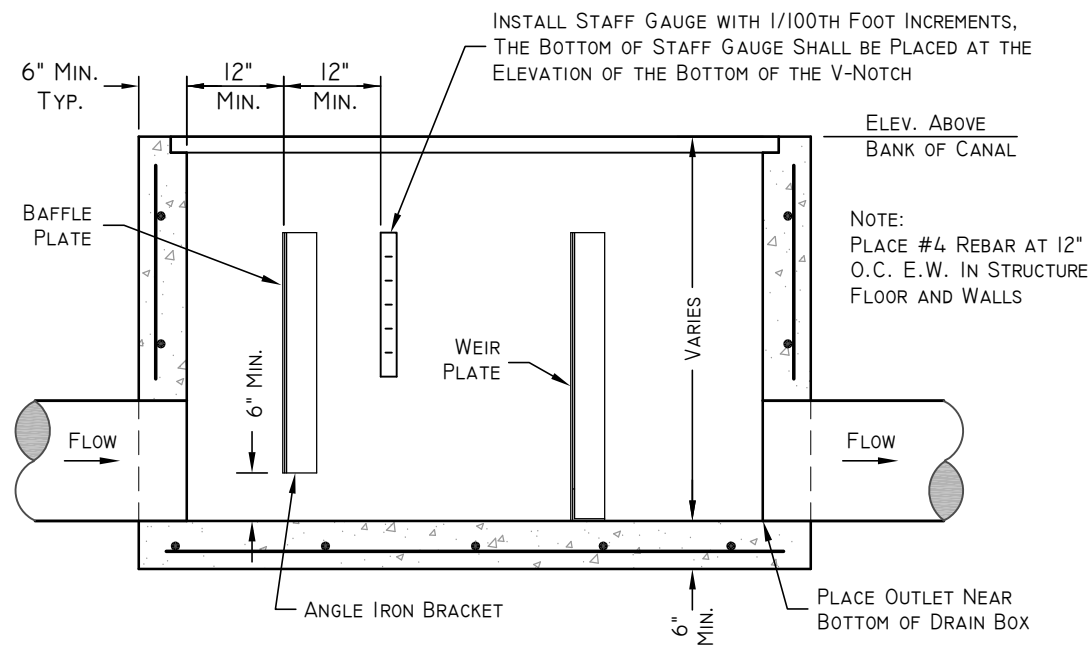
SPANISH FORK SOUTH
IRRIGATION COMPANY



A PLAN VIEW
NTS

DISCLAIMER:

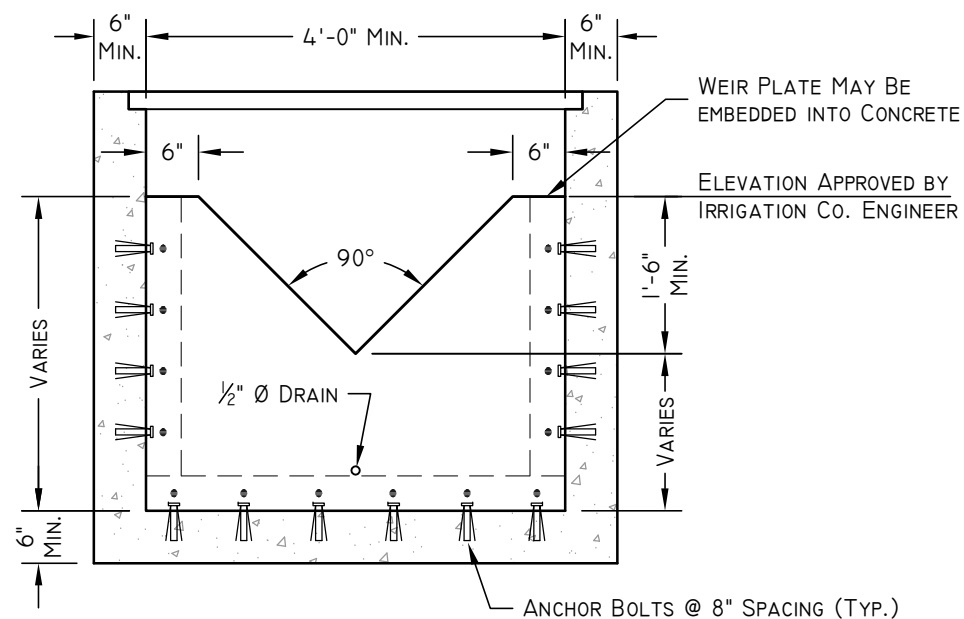
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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



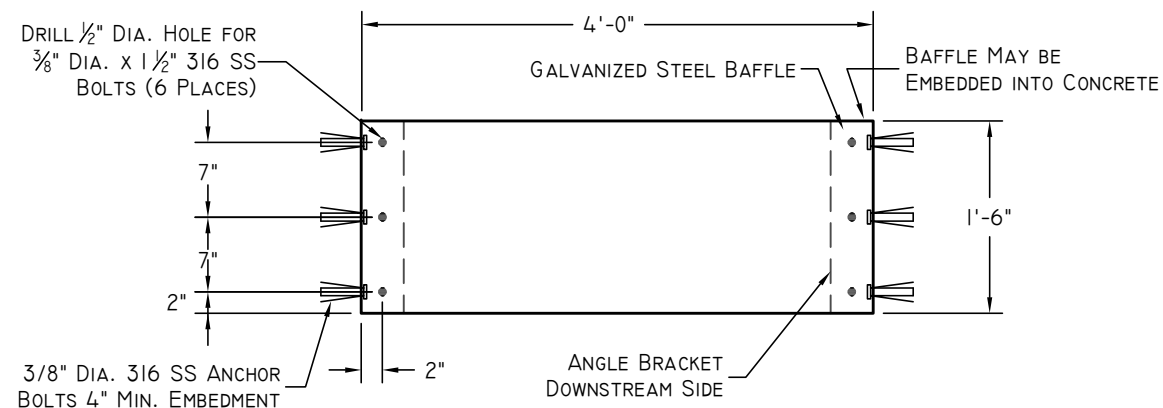
B SECTION
NTS

FLOW TABLE
 $Q = CW \times H^{2.5}$

CW	2.5
H (FT.)	Q (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



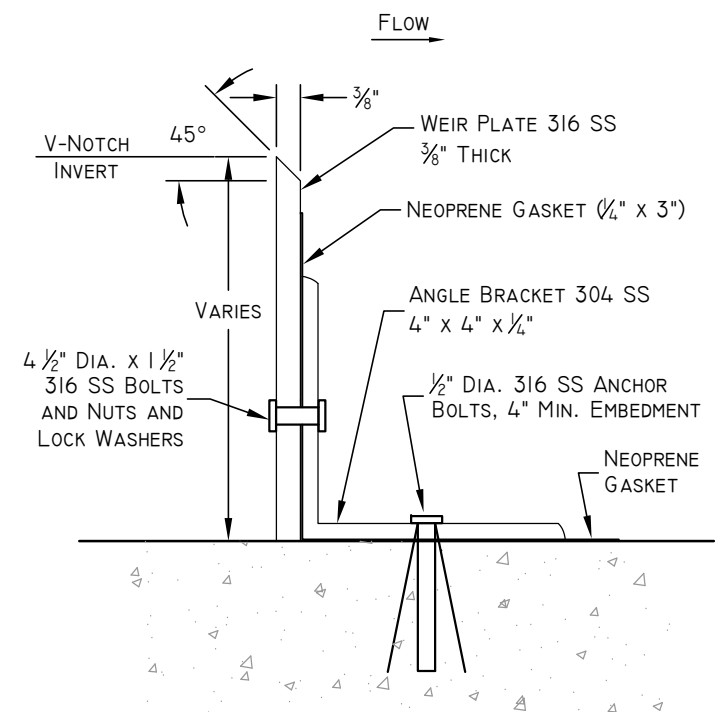
C SECTION
NTS



1 BAFFLE PLATE DETAIL
NTS

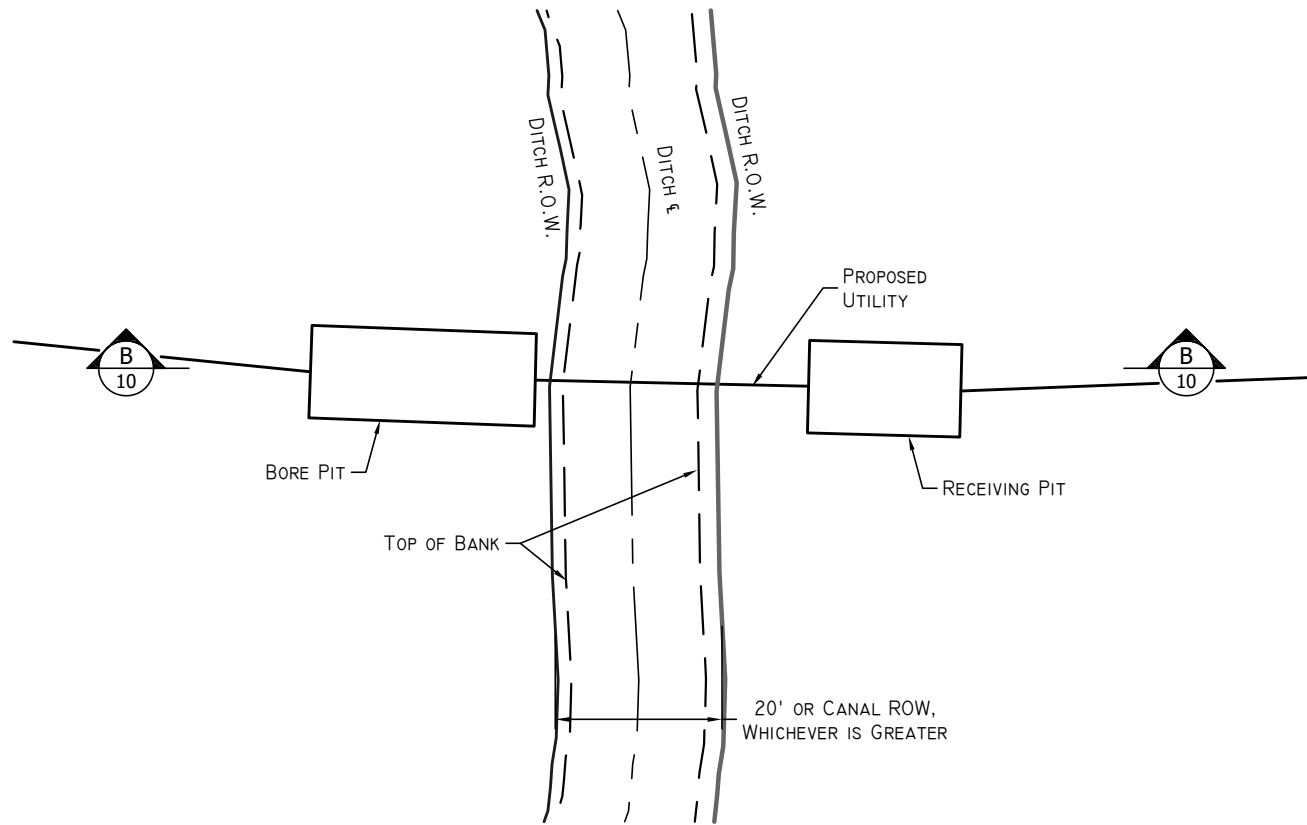
NOTES:

1. IF BOX IS CAST IN PLACE, PUT #4 REBAR PLACED AT 12" O.C. E.W. IN STRUCTURE FLOOR AND WALLS MINIMUM.
2. DETAILS FOR CAST IN PLACE BOX SEE **1/5**.
3. ALL PIPES INTO BOX SHALL BE GROUTED AND WATERTIGHT.
4. SUBMIT TO IRRIGATION COMPANY ENGINEER FOR FINAL DIMENSIONS ON REBAR REINFORCEMENT AND CONCRETE COMPONENTS.
5. PLACE STRUCTURE ON 6-INCHES OF IRRIGATION COMPANY ENGINEER APPROVED COMPACTED BEDDING

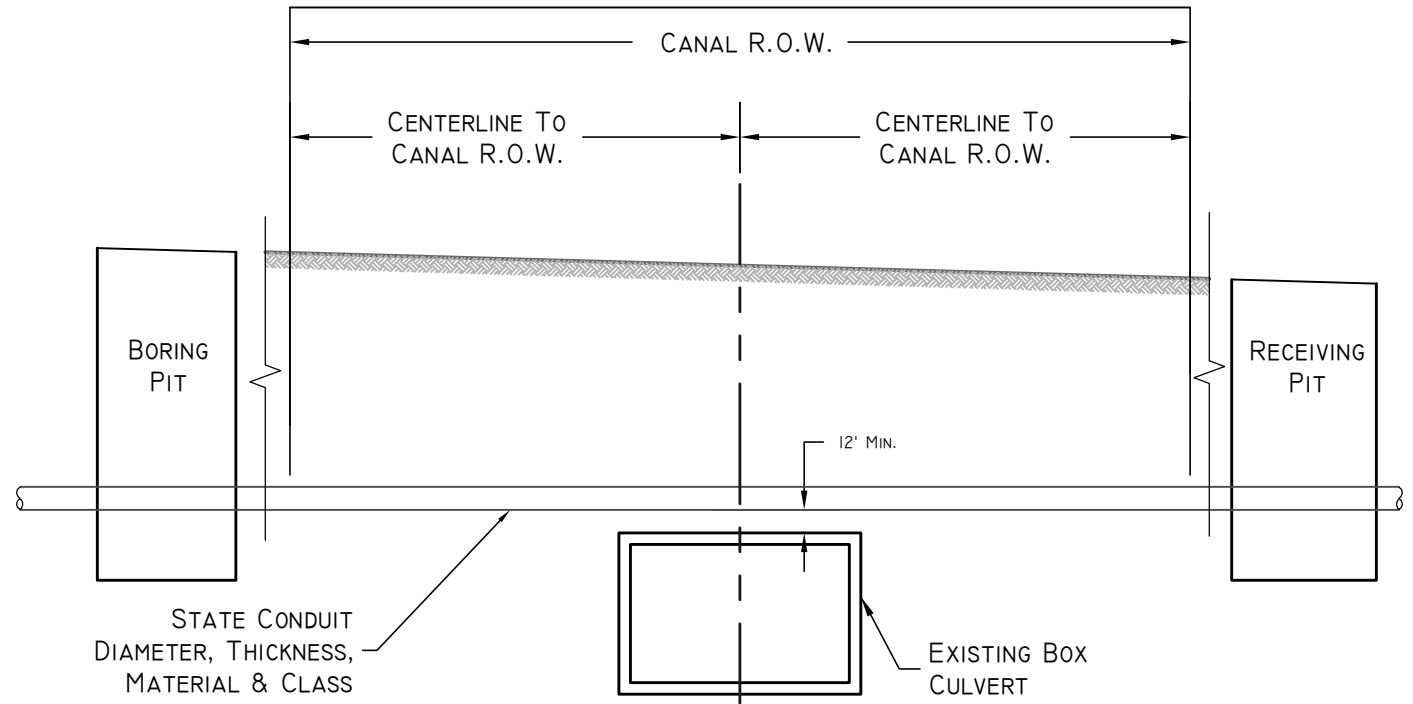


2 ANGLE IRON DETAIL
NTS

DESIGNER:	KYLE DEVANEY	PROJECT LEADER:	KYLE DEVANEY
DRAFTSMAN:	MATT GURR	FRONT DATE:	APRIL 2, 2025
NO.	DATE	NTS	DESCRIPTION



A DIRECTIONAL DRILL UNDER, OR ABOVE CANAL, OR MICROTRENCH ABOVE CANAL
NTS



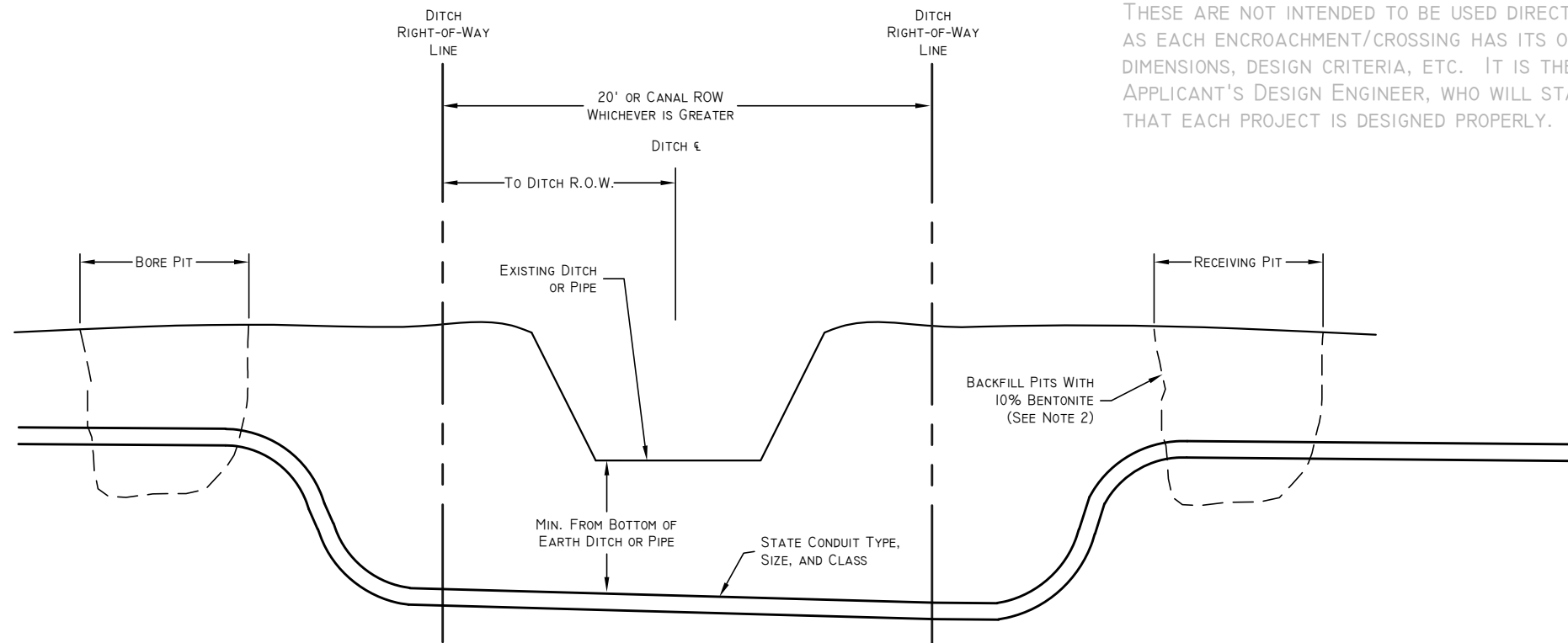
B DIRECTIONAL DRILL OR MICROTRENCH ABOVE CANAL CROSS SECTION
NTS

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

NOTES:

1. BORE PIT COMPACTION TO BE 95% STANDARD PROCTOR DENSITY.
2. 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.
3. CONDUIT MUST BE A MINIMUM OF 2 FEET BELOW THE BOTTOM OF THE EXISTING BOX CULVERT OR CONCRETE CANAL, AND 4 FEET BELOW EARTHEN CANAL BOTTOM.
4. BORE PITS MUST BE COMPLETELY PLACED OUTSIDE OF THE SFSIC RIGHT-OF-WAY.
5. ABOVE CANAL CONDUIT/CABLES MUST BE A MINIMUM OF 1 FOOT ABOVE THE TOP OF THE CANAL.



B DIRECTIONAL DRILL UNDER CANAL CROSS SECTION
NTS

SPANISH FORK SOUTH
IRRIGATION COMPANY

KYLE DEVANEY

PROJECT LEADER

APRIL 2, 2025

PRINT DATE

CHECKED

REVIEWED

REVISIONS

DESCRIPTION

NO.

DATE

NTS

DATE

DATE

SPANISH FORK SOUTH IRRIGATION COMPANY
TYPICAL DRAWINGS
DIRECTIONAL DRILLING AND MICROTRENCHING DETAILS

10- Directional Drilling.dwg
03/21/23 SFSIC Review/Standard Drawings

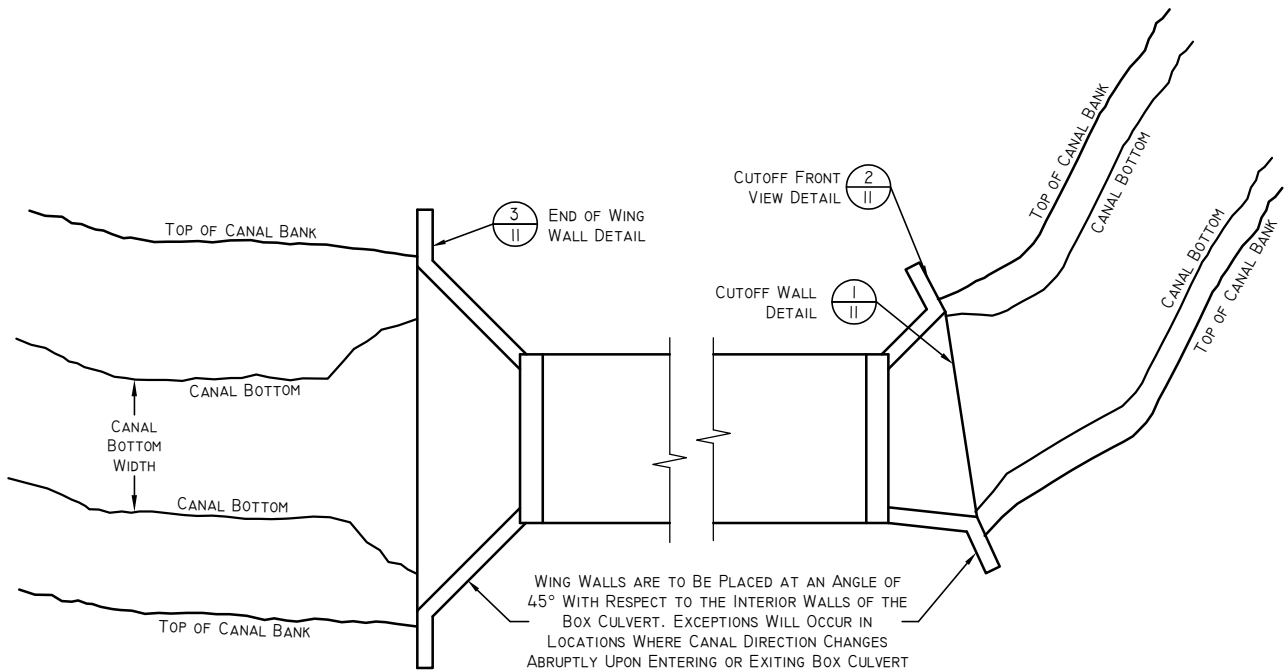
JOB NO.

21073

LAYOUT: Details

SHEET

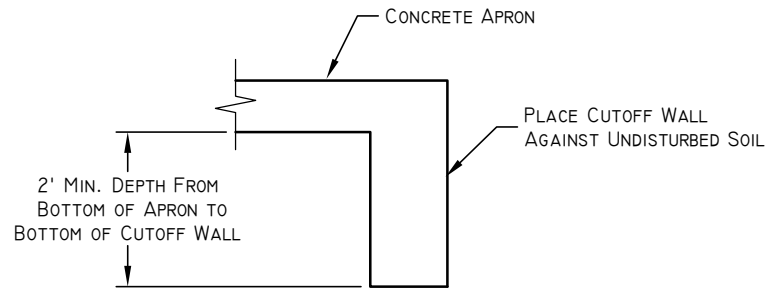
10 OF 19



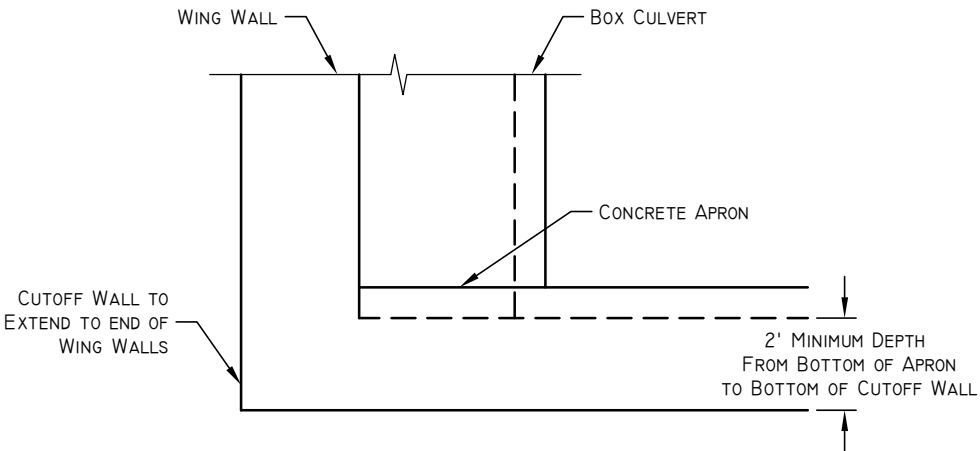
A PLAN VIEW OF BOX CULVERT
NTS

DISCLAIMER:

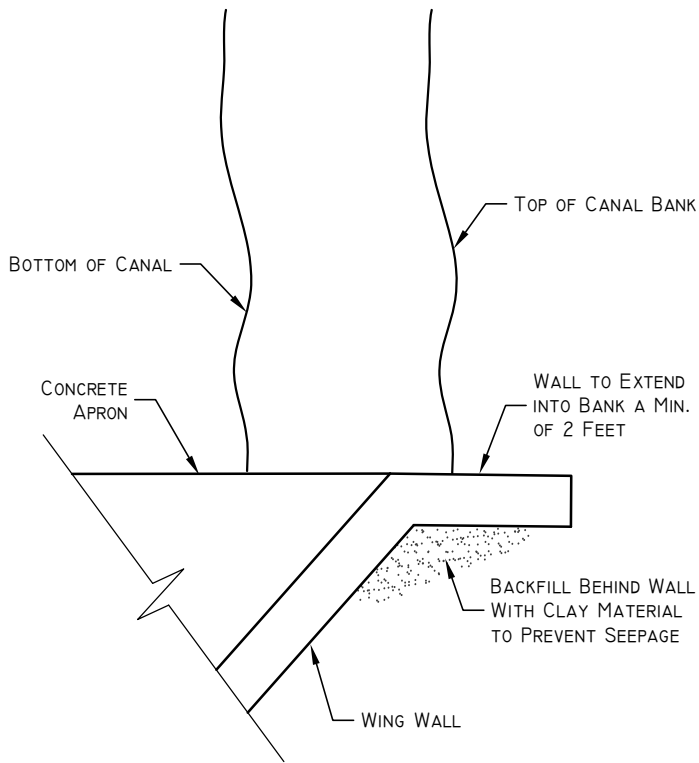
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA, ETC. IT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



1 CUTOFF WALL DETAIL
NTS



2 CUTOFF FRONT VIEW DETAIL
NTS

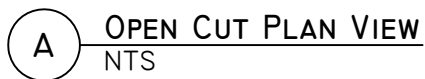


3 END OF WING WALL DETAIL
NTS

NOTES:

1. BOX CULVERT TO HAVE A MINIMUM OF 4 FEET FROM THE INVERT TO THE OBVERT, AND A MINIMUM OF 2 FEET FROM THE HIGH WATER MARK TO THE OBVERT. PLEASE SPECIFY THE HIGH WATER MARK ELEVATION.
2. WIDTH OF BOX CULVERT SHALL BE A MINIMUM OF 6 FEET.
3. ACCESS TO CANAL OPERATION AND MAINTENANCE ROAD SHALL BE INSTALLED WITH CURB CUTS AT DRIVE APPROACHES AND THICKENED CONCRETE AT SIDEWALKS.
4. CUTOFF WALLS AND APRONS BETWEEN WING WALLS ARE REQUIRED.
5. END OF WING WALL SHALL NOT INTERFERE WITH OPERATION AND MAINTENANCE ROAD.
6. 6 FOOT CHAIN LINK FENCE OR 2 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.
7. DRAWINGS SUBMITTED FOR REVIEW ARE TO SHOW PLAN AND PROFILE VIEWS, NOTE SLOPE, INCLUDE DETAIL INDICATING REBAR SIZE AND SPACING, AND STATE TRAFFIC LOADING.
8. CASINGS MUST HAVE A MINIMUM OF 2 FEET BETWEEN TOP OF CASING AND BOTTOM OF BOX CULVERT.
9. 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.
10. THE TOP OF THE WINGWALL ON THE OUTER END SHALL BE AT AN ELEVATION AT OR ABOVE THE LEVEL OF THE GROUND.

PROJECT LEADER:		KYLE DEVANEY	
FRONT DATE		APRIL 2, 2025	
CHECKED:		KYLE DEVANEY	
REVIEWED:		MATT GURR	
NO.		DATE	
DESCRIPTION		NTS	



THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

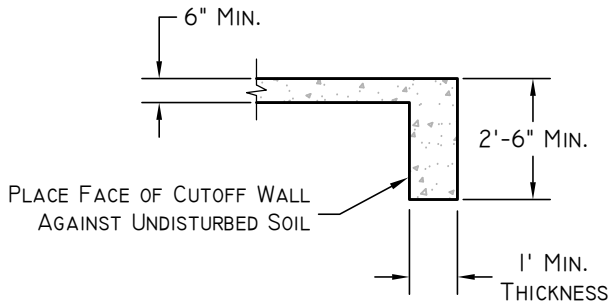
DIAMETER (INCHES)	MINIMUM WALL THICKNESS (INCHES)
12"	0.188"
14" - 16"	0.312"
18"	0.312"
20" - 22"	0.375"
24" - 26"	0.438"
28" - 32"	0.500"
34" - 36"	0.562"
38" - 42"	0.562"



1. REMOVAL AND REPLACEMENT OF CANAL FLOOR AND BANKS WILL REQUIRE TESTING AND PROCTORS BY A LICENSED SOILS LAB. COMPACTION TO BE 95% STANDARD 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 SITE.
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 WATERLINES.
6. CASING MUST BE 4' MIN. FROM BOTTOM OF EARTH CANAL OR 2' MIN. FROM BOTTOM OF BOX CULVERT OR CONCRETE-LINED CANAL.
7. CANAL RIGHT-OF-WAY IS GENERALLY 30 FEET WIDE CENTERED OVER THE CANAL.
8. CONCRETE LINER IS TO BE INSTALLED IN THE CANAL EXTENDING 5 FEET PAST THE EXTENTS OF CANAL DISTURBANCE SEE DETAIL. 
9. CARRIER PIPE SHALL HAVE ADEQUATE CASING SPACERS.

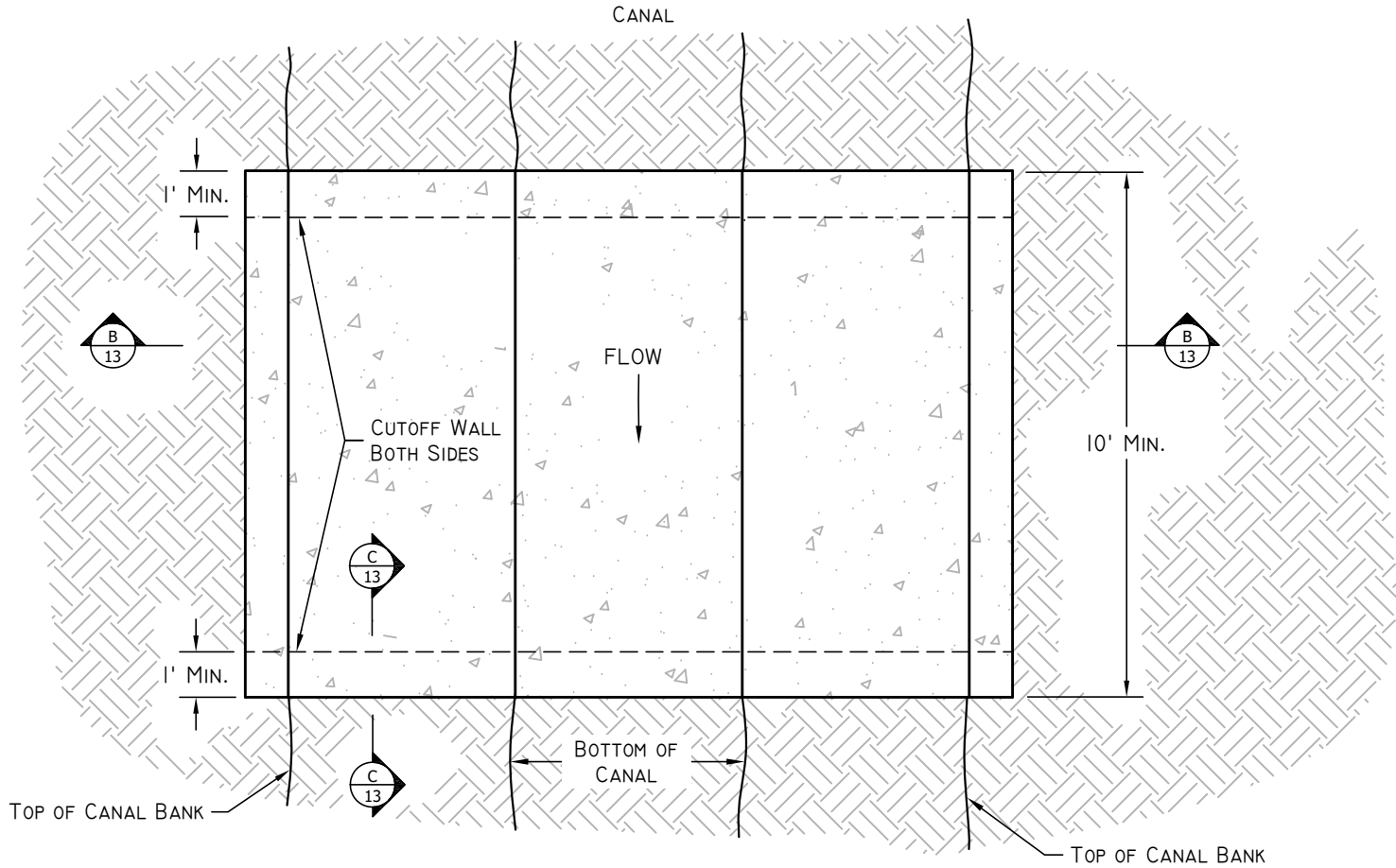
DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

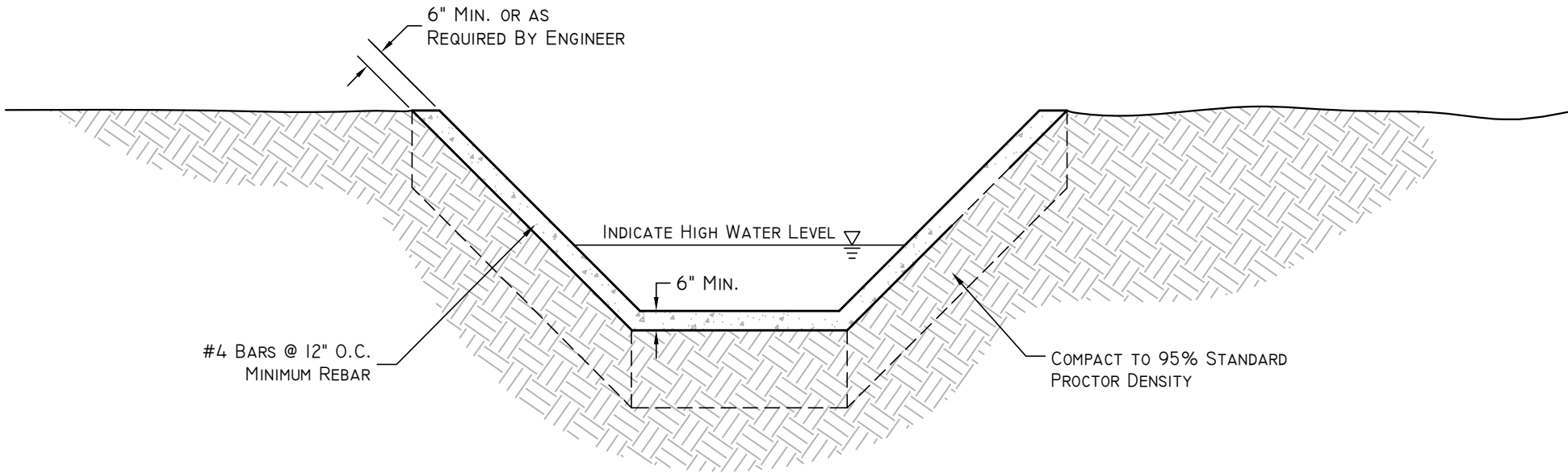


NOTE:
ENGINEER TO DETERMINE REBAR SIZE
AND SPACING IN CUTOFF WALL.

C CUTOFF WALL CROSS SECTION
NTS



A CONCRETE LINER PLAN
NTS



B CONCRETE LINER CROSS SECTION
NTS

SPANISH FORK SOUTH
IRRIGATION COMPANY

KYLE DEVANEY

PROJECT LEADER:

FRONT DATE

CHECKED:

KYLE DEVANEY

DRAFTSMAN:

MATT GURR

DATE

NO.

DESCRIPTION

REVISIONS

DATE

DESCRIPTION

SPANISH FORK SOUTH IRRIGATION COMPANY

TYPICAL DRAWINGS

CONCRETE LINER

13-Concrete Liner.dwg

03/10/73 SFSIC Reviews/Standard Drawings

LAYOUT: Details

JOB NO.

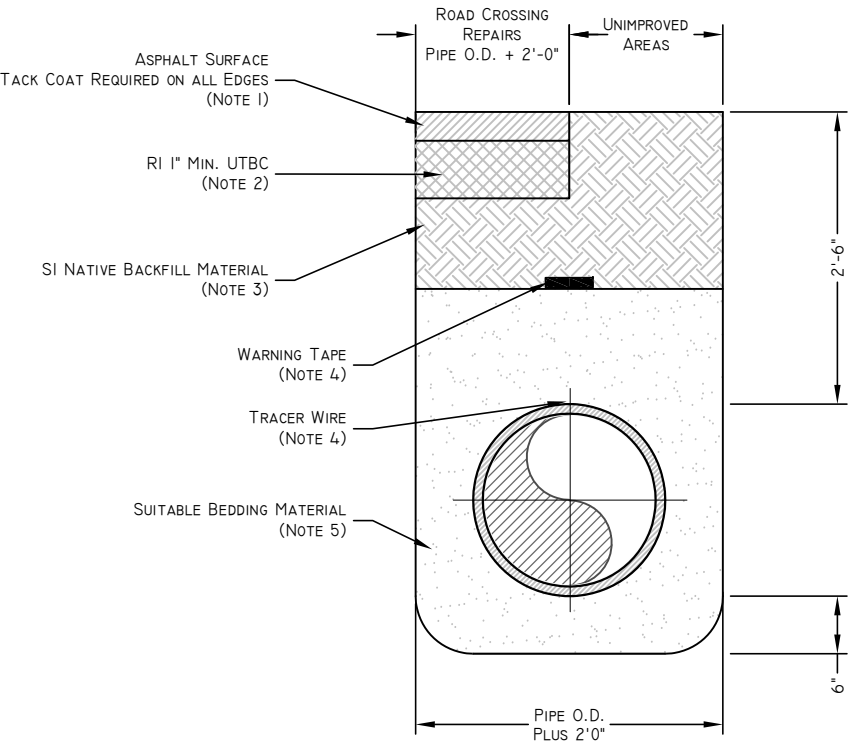
2/073

SHEET

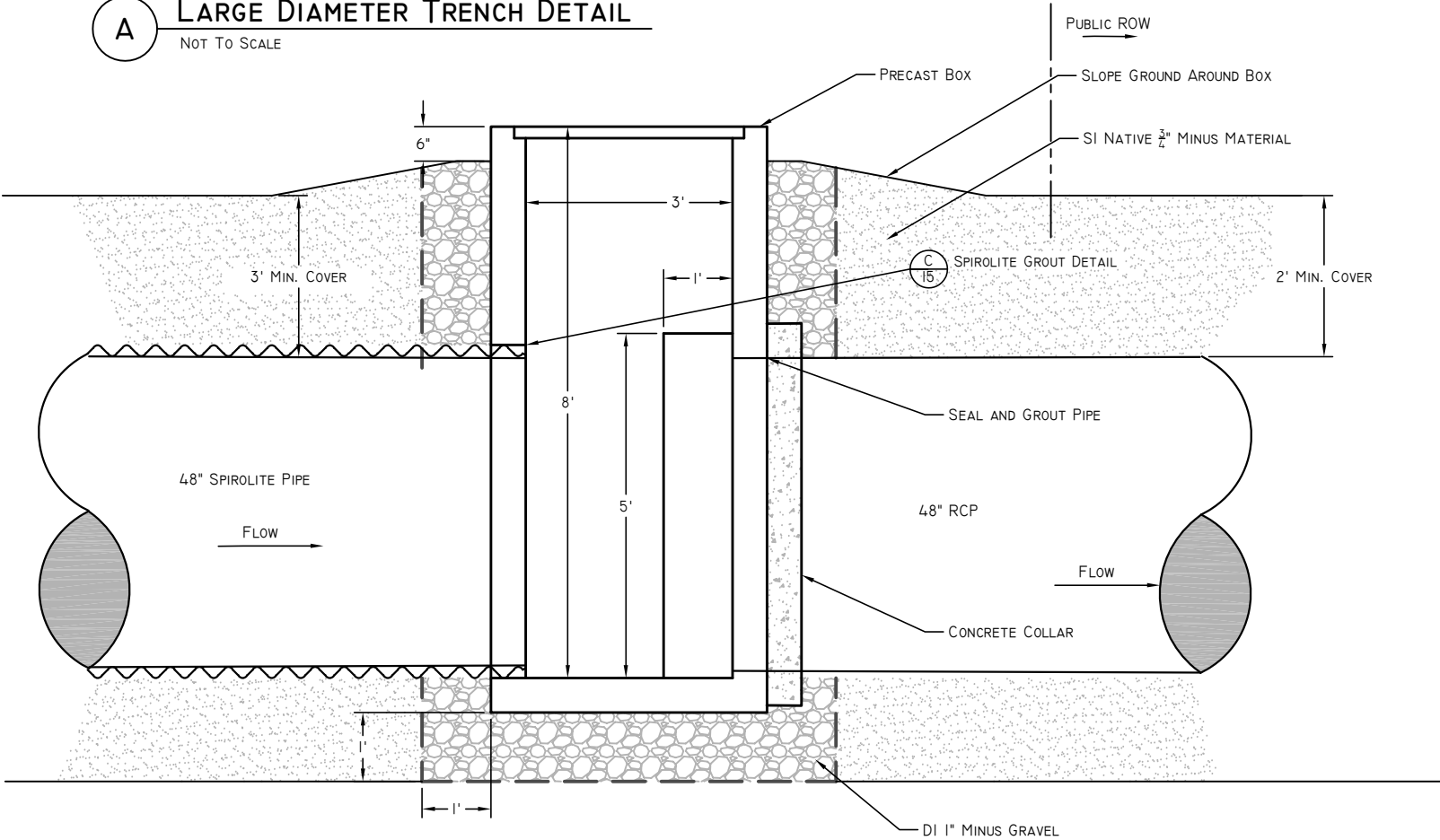
13

OF

19



A **LARGE DIAMETER TRENCH DETAIL**
NOT TO SCALE



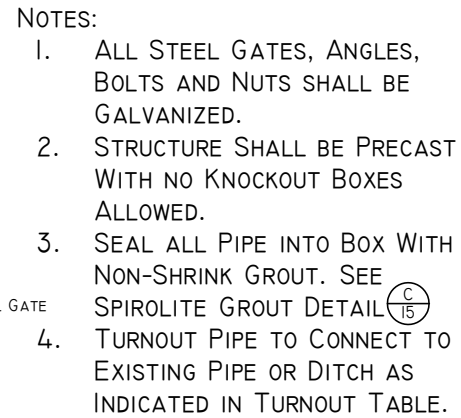
B **SPIROLITE TO RCP TRANSITION**
NOT TO SCALE

- NOTES:**
- 1/2" MIX BITUMINOUS SURFACE ACCORDING TO THE SPECIFICATIONS FROM THE AUTHORITY HAVING JURISDICTION. SAW CUT ALL EDGES. MINIMUM THICKNESS AS FOLLOWS:
A) 2 1/2" MINIMUM THICKNESS ON PRIVATE DRIVEWAYS.
B) 3" MINIMUM THICKNESS ON RESIDENTIAL ROADS.
C) 4" MINIMUM THICKNESS ON ALL CITY ARTERIAL ROADS OR COUNTY ROADWAYS.
 - RI MINIMUM OF 1" UNTREATED BASE COURSE COMPACTED TO 95% MAX. DRY DENSITY.
 - SI NATIVE BACKFILL BORROW MATERIAL COMPACTED TO 95% MAX. DRY DENSITY.
 - METALLIC WARNING TAPE TO BE INSTALLED 12" ABOVE TOP OF PIPE. INSTALL LOCATOR WIRE ABOVE PIPE.
 - SUITABLE MATERIAL AS DEFINED IN PROJECT SPECIFICATIONS TO BE USED FOR PIPE INSTALLATIONS FROM 6" BENEATH TO 12" ABOVE THE PIPE. INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM BEARING UNDER THE PIPE BARREL, EXCAVATE IN BEDDING FOR ALL PIPE JOINTS. WHEN ALLOWED BY ENGINEER, NATIVE MATERIAL MAY BE USED AS FILL, PROVIDED THAT UNSUITABLE MATERIAL AS DEFINED IN THE SPECIFICATIONS IS REMOVED.
 - FOR TRENCHES WITHIN UDOT RIGHT-OF-WAY CONSTRUCTION MUST BE PERFORMED PER UDOT SPECIFICATIONS, SPECIFICALLY 03575 - EMBANKMENT BORROW AND BACKFILL; AND 02618 - DRAINAGE PIPE LINER
 - ALL PIPES IN PUBLIC ROW MUST BE RCP.
 - MINIMUM COVER OVER RCP IS 2 FEET.

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

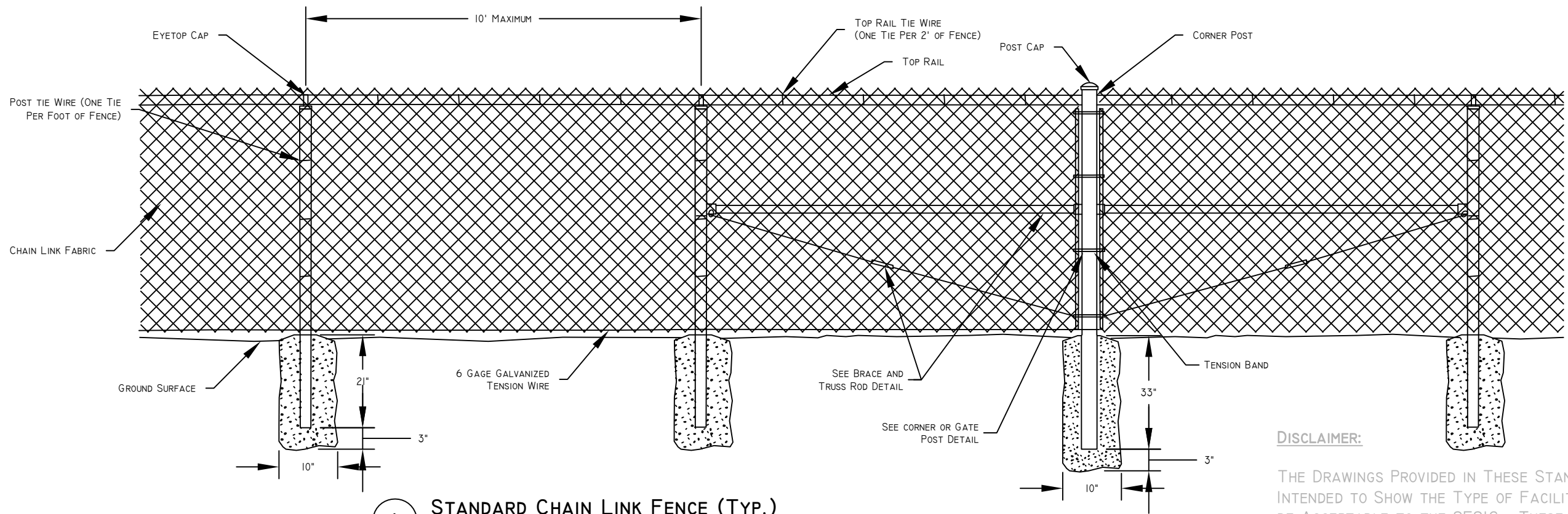
SPANISH FORK SOUTH IRRIGATION COMPANY		SPANISH FORK SOUTH IRRIGATION COMPANY	
TYPICAL DRAWINGS		SPANISH FORK SOUTH IRRIGATION COMPANY	
LARGE DIAMETER PIPE DETAILS		SPANISH FORK SOUTH IRRIGATION COMPANY	
14-15-16-large Diameter Trench Details.dwg		SPANISH FORK SOUTH IRRIGATION COMPANY	
021073 SFSIC Review/Standard Drawings		SPANISH FORK SOUTH IRRIGATION COMPANY	
JOB NO.		SPANISH FORK SOUTH IRRIGATION COMPANY	
21073		SPANISH FORK SOUTH IRRIGATION COMPANY	
SHEET		SPANISH FORK SOUTH IRRIGATION COMPANY	
14		SPANISH FORK SOUTH IRRIGATION COMPANY	
OF		SPANISH FORK SOUTH IRRIGATION COMPANY	
19		SPANISH FORK SOUTH IRRIGATION COMPANY	
LAYOUT: Trench		SPANISH FORK SOUTH IRRIGATION COMPANY	
DESIGNER: KYLE DEVANEY		SPANISH FORK SOUTH IRRIGATION COMPANY	
DRAFTSMAN: MATT GURR		SPANISH FORK SOUTH IRRIGATION COMPANY	
NO.		SPANISH FORK SOUTH IRRIGATION COMPANY	
DATE		SPANISH FORK SOUTH IRRIGATION COMPANY	
INTS.		SPANISH FORK SOUTH IRRIGATION COMPANY	
REVISIONS		SPANISH FORK SOUTH IRRIGATION COMPANY	
CHECKED: KYLE DEVANEY		SPANISH FORK SOUTH IRRIGATION COMPANY	
REVIEWED: MATT GURR		SPANISH FORK SOUTH IRRIGATION COMPANY	
PROJECT LEADER: KYLE DEVANEY		SPANISH FORK SOUTH IRRIGATION COMPANY	
PRINT DATE: APRIL 2, 2025		SPANISH FORK SOUTH IRRIGATION COMPANY	



NOT TO SCALE



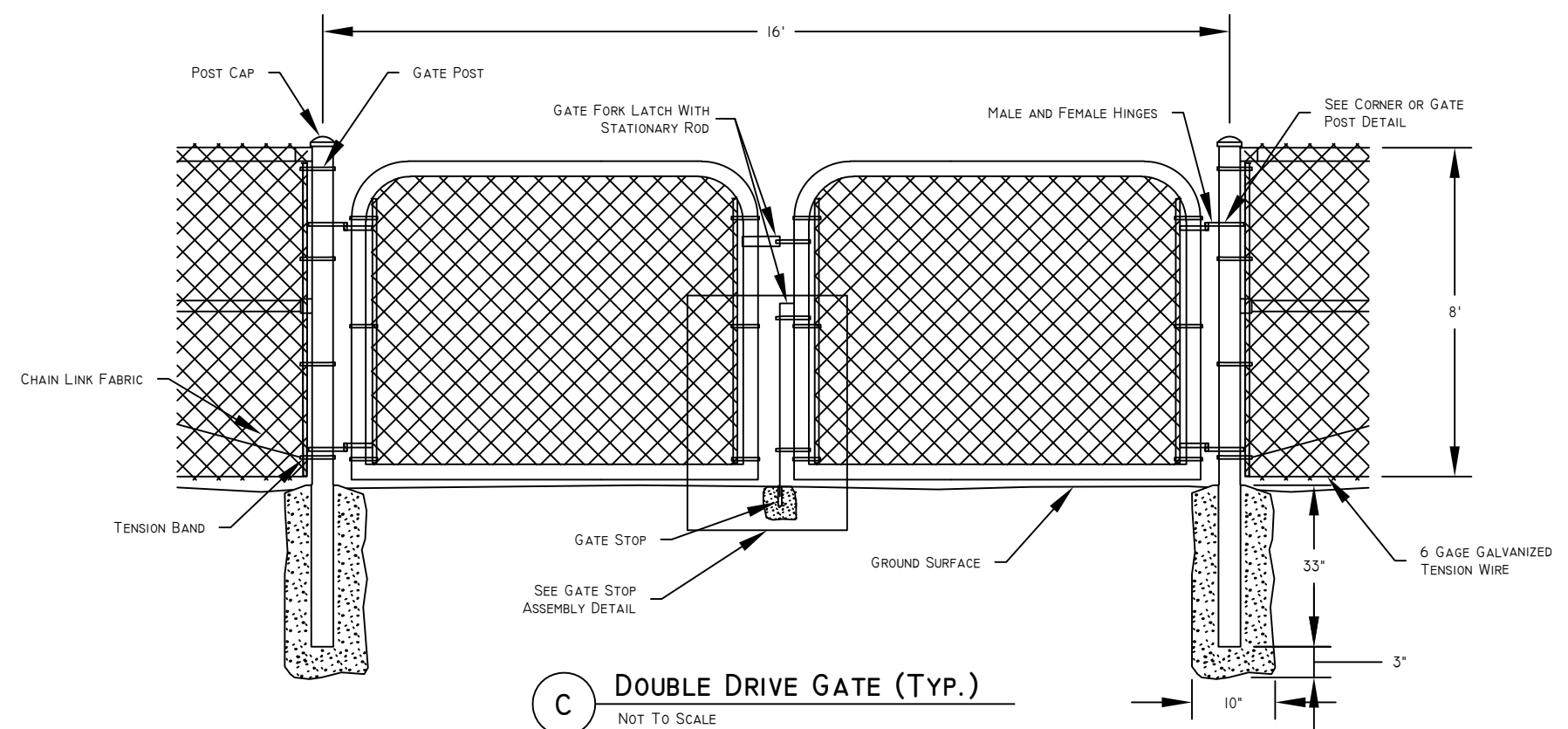
SHEET
15 OF 19



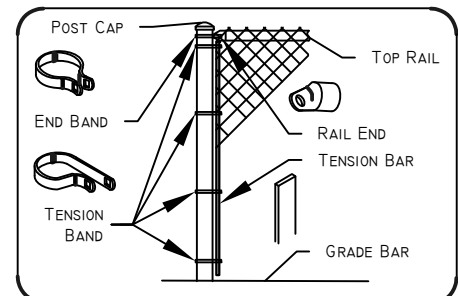
A **STANDARD CHAIN LINK FENCE (TYP.)**
NOT TO SCALE

B **CORNER POST (TYP.)**
NOT TO SCALE

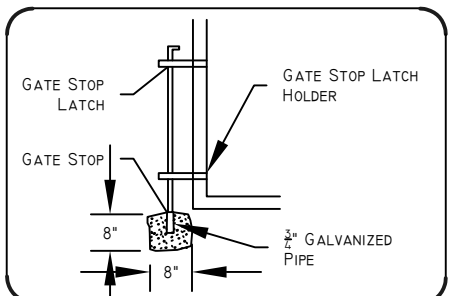
DISCLAIMER:
THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. THESE ARE NOT INTENDED TO BE USED DIRECTLY IN THE DESIGN OF FACILITIES AS EACH ENCROACHMENT/CROSSING HAS ITS OWN UNIQUE CIRCUMSTANCE, DIMENSIONS, DESIGN CRITERIA,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



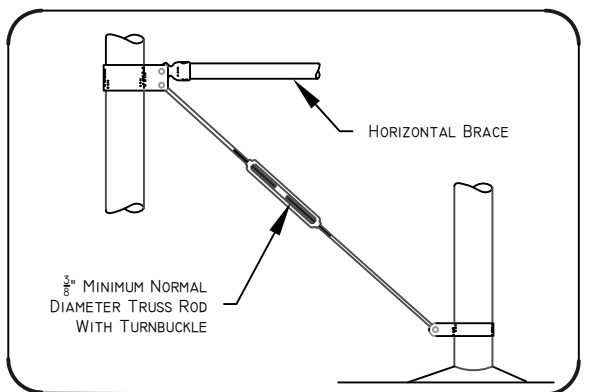
C **DOUBLE DRIVE GATE (TYP.)**
NOT TO SCALE



CORNER OR GATE POST DETAIL



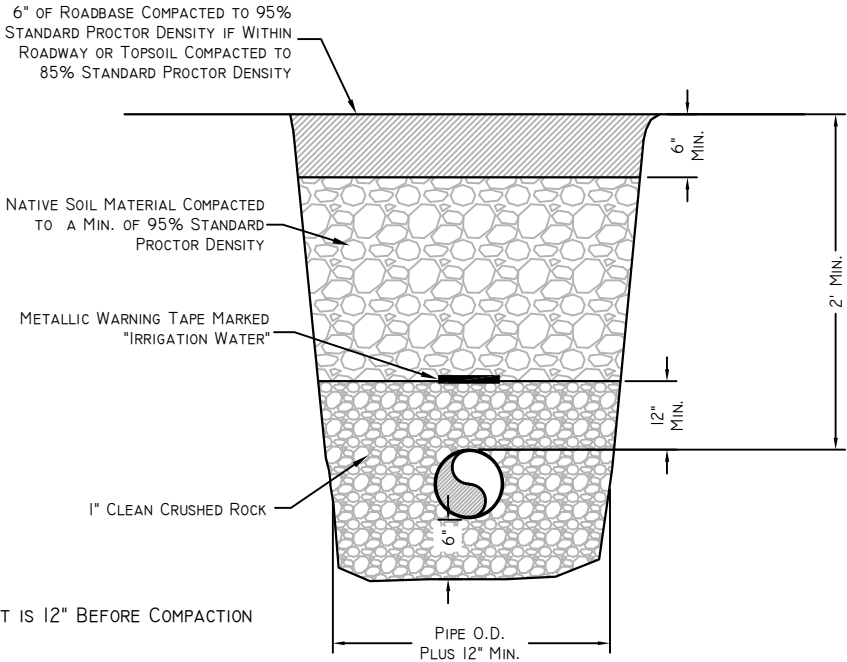
GATE STOP ASSEMBLY DETAIL



BRACE AND TRUSS ROD DETAIL

NO.	DATE	INTS.	REVISIONS		DESCRIPTION
			CHECKED	REVIEWED	

DESIGNER:	KYLE DEVANEY	PROJECT LEADER:	KYLE DEVANEY
DRAFTSMAN:	MATT GURR	PRINT DATE:	APRIL 2, 2025



NOTES:
I. MAXIMUM LIFT IS 12" BEFORE COMPACTION

A PIPE BEDDING TRENCH SECTION
NTS

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

SPANISH FORK SOUTH
IRRIGATION COMPANY

DESIGNER:		KYLE DEVANEY		PROJECT LEADER:		KYLE DEVANEY	
DRAFTSMAN:		MATT GURR		PRINT DATE:		April 2, 2025	
REVISIONS							
NO.		DATE		ENTRS.		DESCRIPTION	

SPANISH FORK SOUTH IRRIGATION COMPANY TYPICAL DRAWINGS TRENCH DETAIL		17- Trench Detail.dwg	
		0321073 SFSIC ReviewStandard Drawings	
		LAYOUT: Details	
JOB NO.			
21073			



- | DIAMETER
(INCHES) | 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 |

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

DISCLAIMER:

THE DRAWINGS PROVIDED IN THESE STANDARDS ARE ONLY INTENDED TO SHOW THE TYPE OF FACILITY(IES) THAT WILL BE ACCEPTABLE TO THE SFSIC. 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 APPLICANT'S DESIGN ENGINEER, WHO WILL STAMP THE DRAWING, TO ENSURE THAT EACH PROJECT IS DESIGNED PROPERLY.

