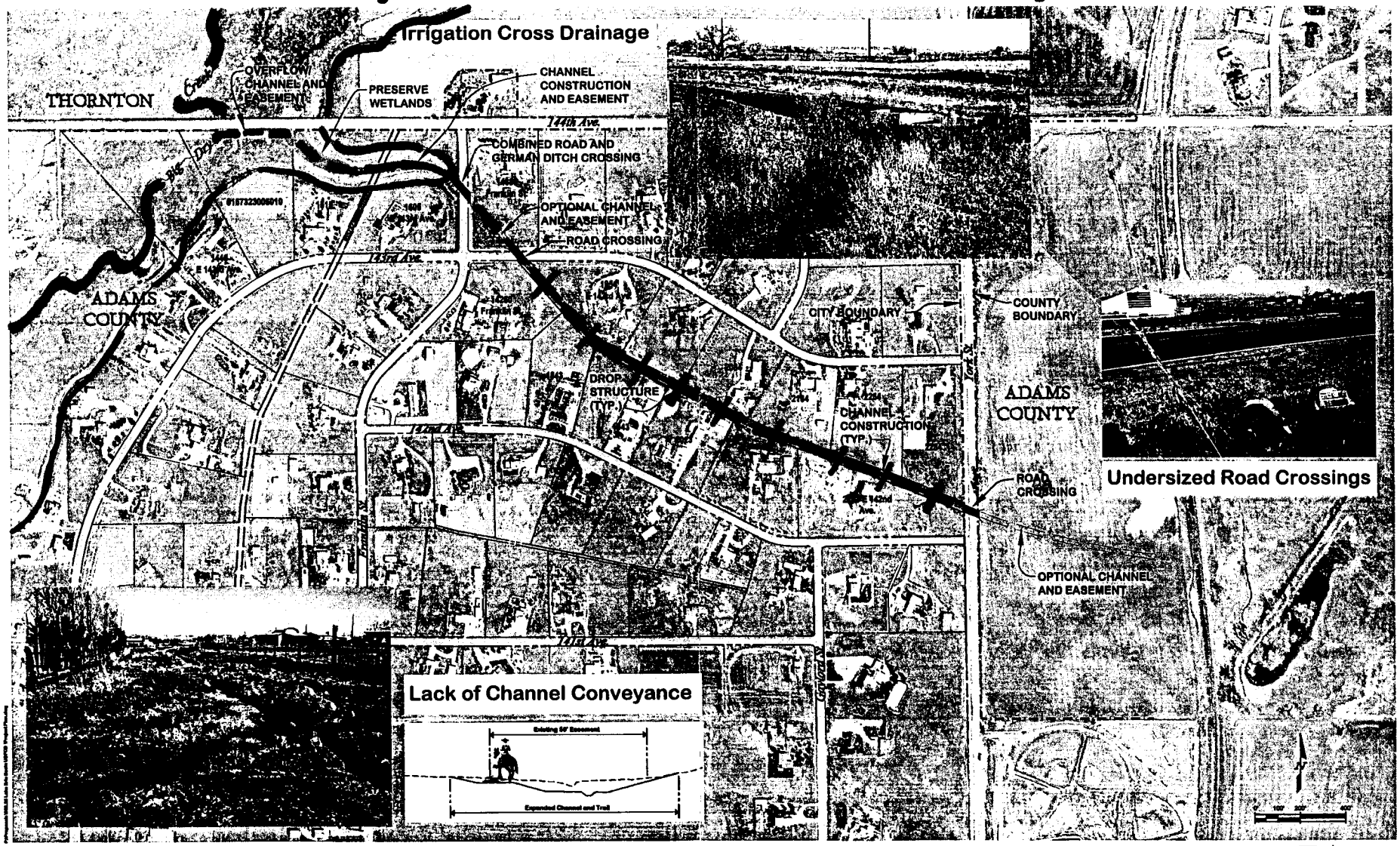
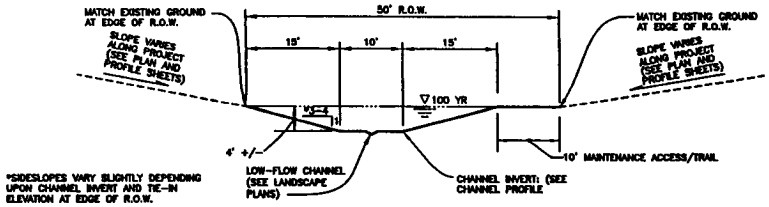
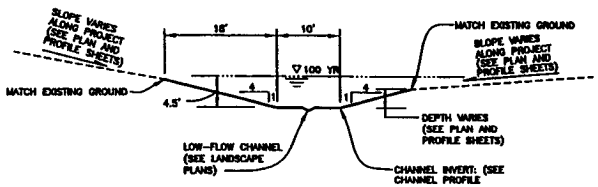
Project Plan - Lake Erie Basin Tributary 1





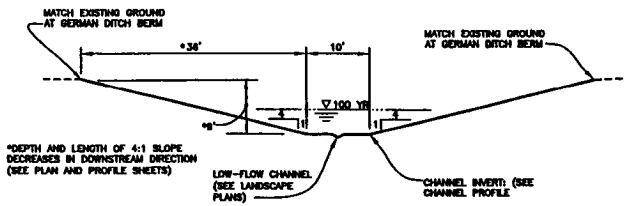
TYPICAL CHANNEL CROSS SECTION
YORK STREET TO 143RD AVENUE
(STA. 139+00 TO STA. 115+50)

0' 5' 10' 20'
SCALE IN FEET



TYPICAL CHANNEL CROSS SECTION
143RD AVENUE TO FRANKLIN STREET
(STA. 115+50 TO STA. 112+50)

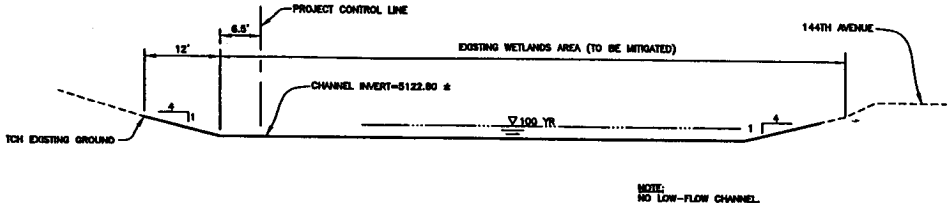
0' 5' 10' 20'
SCALE IN FEET



TYPICAL CHANNEL CROSS SECTION
GERMAN DITCH TO EDGE OF WETLANDS
(STA. 110+50 TO STA. 106+00)

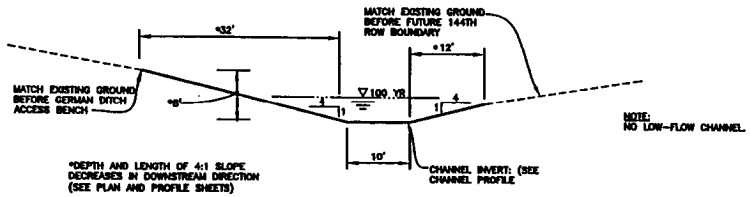
0' 5' 10' 20'
SCALE IN FEET

Sheet 11 Left



TYPICAL CHANNEL CROSS SECTION
AT DOWNSTREAM EDGE OF WETLANDS
(STA. 103+50)

0' 5' 10' 20'
SCALE IN FEET



TYPICAL CHANNEL CROSS SECTION
EDGE OF WETLANDS TO BIG DRY CREEK
(STA. 103+00 TO STA. 100+00)

0' 5' 10' 20'
SCALE IN FEET

Sheet 11 Right

DESIGNED: CRR DATE:
DRAWN: BKB DATE:
CHECKED: MSD DATE:
REVISED: DATE:
REVISED: DATE:

MULLER ENGINEERING CO., INC.
CONSULTING ENGINEERS
PROJECT NO. 02023.02

ADAMS COUNTY CITY O

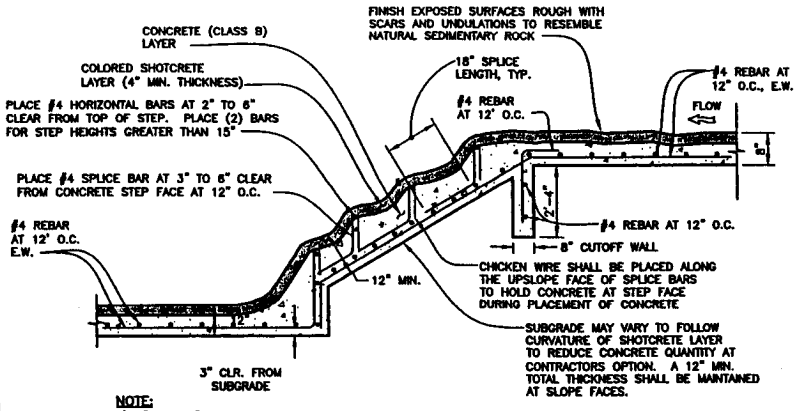
IORNTON

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT
UDFCD PROJECT No. 02-03.04

LAKE ERIE BASIN TRIBUTARY #1 DRAINAGE IMPROVEMENTS

TYPICAL CHANNEL SECTIONS

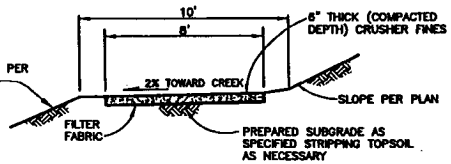
SHEET 11 OF



NOTE:
1'-0" LONG #4 BARS SHALL BE INSERTED HALFWAY INTO THE WET CONCRETE LAYER AT 3' O.C E.W. OVER ENTIRE CONCRETE SURFACE. AFTER CONCRETE HAS SET, BARS SHALL BE BENT OVER AND COVERED WITH THE SHOTCRETE LAYER.

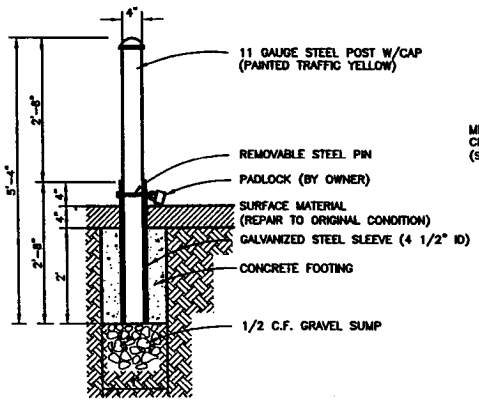
SCULPTED CONCRETE PLACEMENT DETAIL

0' 1' 2'
ORIGINAL SCALE: 1/2" = 1'-0"



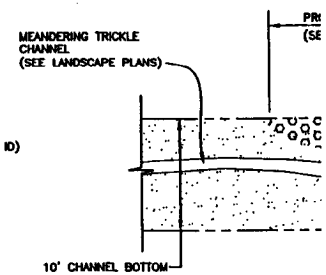
TYPICAL MAINTENANCE ACCESS/ TRAIL SECTION

N.T.S.

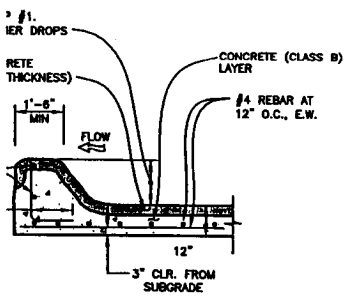


REMOVABLE BOLLARD
143RD AVE. AND YORK STREET ACCESS

N.T.S

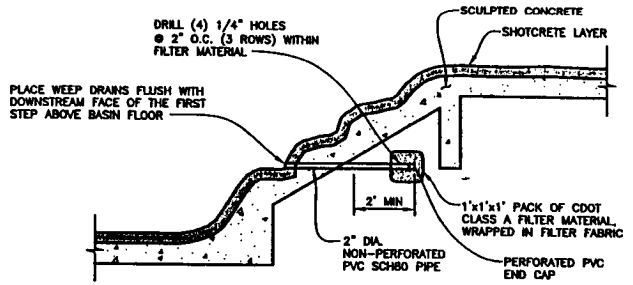


Sheet 19 Left



TED CONCRETE CUTOFF WALL DETAIL

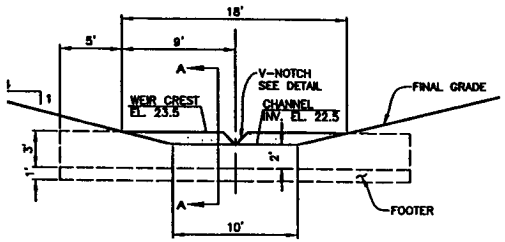
0' 1' 2'
ORIGINAL SCALE: 1/2" = 1'-0"



NOTE:
REINFORCEMENT NOT SHOWN.

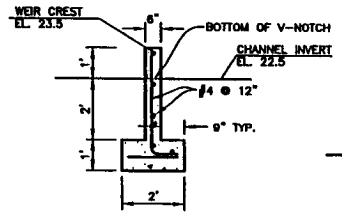
WEEP DRAIN DETAIL

0' 1' 2'
ORIGINAL SCALE: 1/2" = 1'-0"



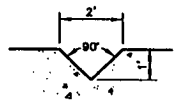
WEIR DETAIL

0' 2.5' 5'
ORIGINAL SCALE: 1" = 5'-0"



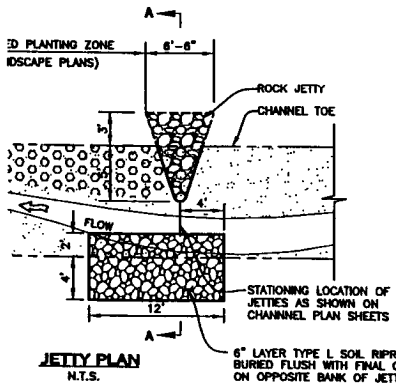
WEIR SECTION A-A

0' 1' 2'
ORIGINAL SCALE: 1/2" = 1'-0"



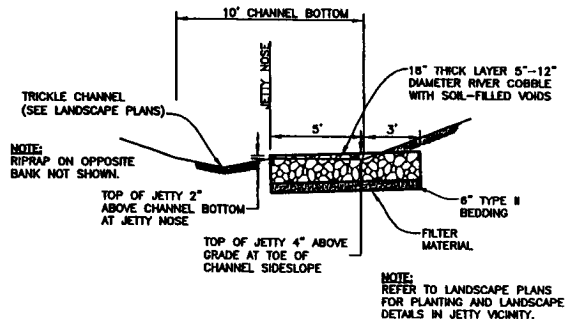
V-NOTCH DETAIL

0' 1' 2'
ORIGINAL SCALE: 1/2" = 1'-0"



JETTY PLAN

N.T.S.



NOTE:
RIPRAP ON OPPOSITE BANK NOT SHOWN.

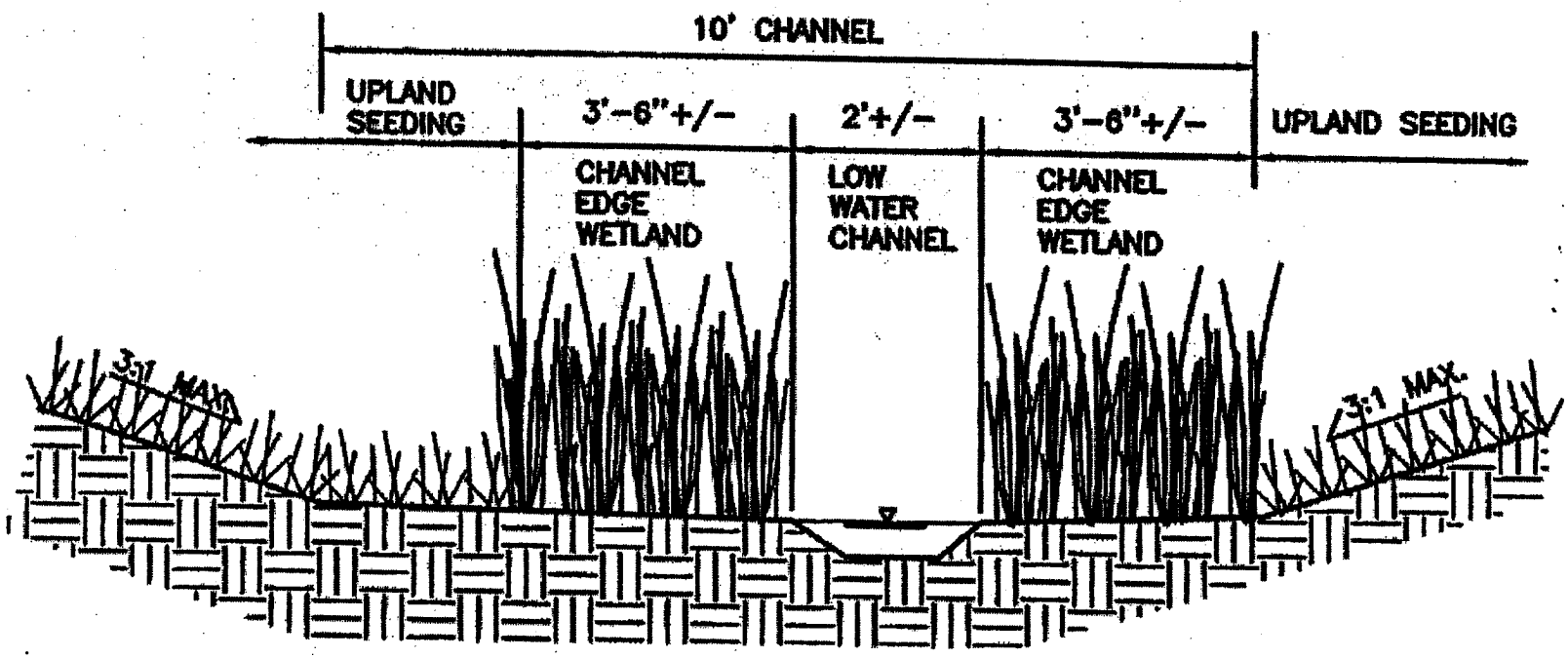
NOTE:
REFER TO LANDSCAPE PLANS FOR PLANTING AND LANDSCAPE DETAILS IN JETTY VICINITY.

JETTY SECTION A

N.T.S.

Sheet 19 Right

DESIGNED: CRR DATE:	MULLER ENGINEERING CO., INC. CONSULTING ENGINEERS DENVER, COLORADO PROJECT NO. 02023.02	ADAMS COUNTY	CITY O	IORNTON	URBAN DRAINAGE AND FLOOD CONTROL DISTRICT UDFCD PROJECT No. 02-03.04	LAKE ERIE BASIN TRIBUTARY #1 DRAINAGE IMPROVEMENTS	MISCELLANEOUS DETAILS	SHEET 19 OF
DRAWN: BKB DATE:								
CHECKED: MSD DATE:								
REVISED: DATE:								
REVISED: DATE:								



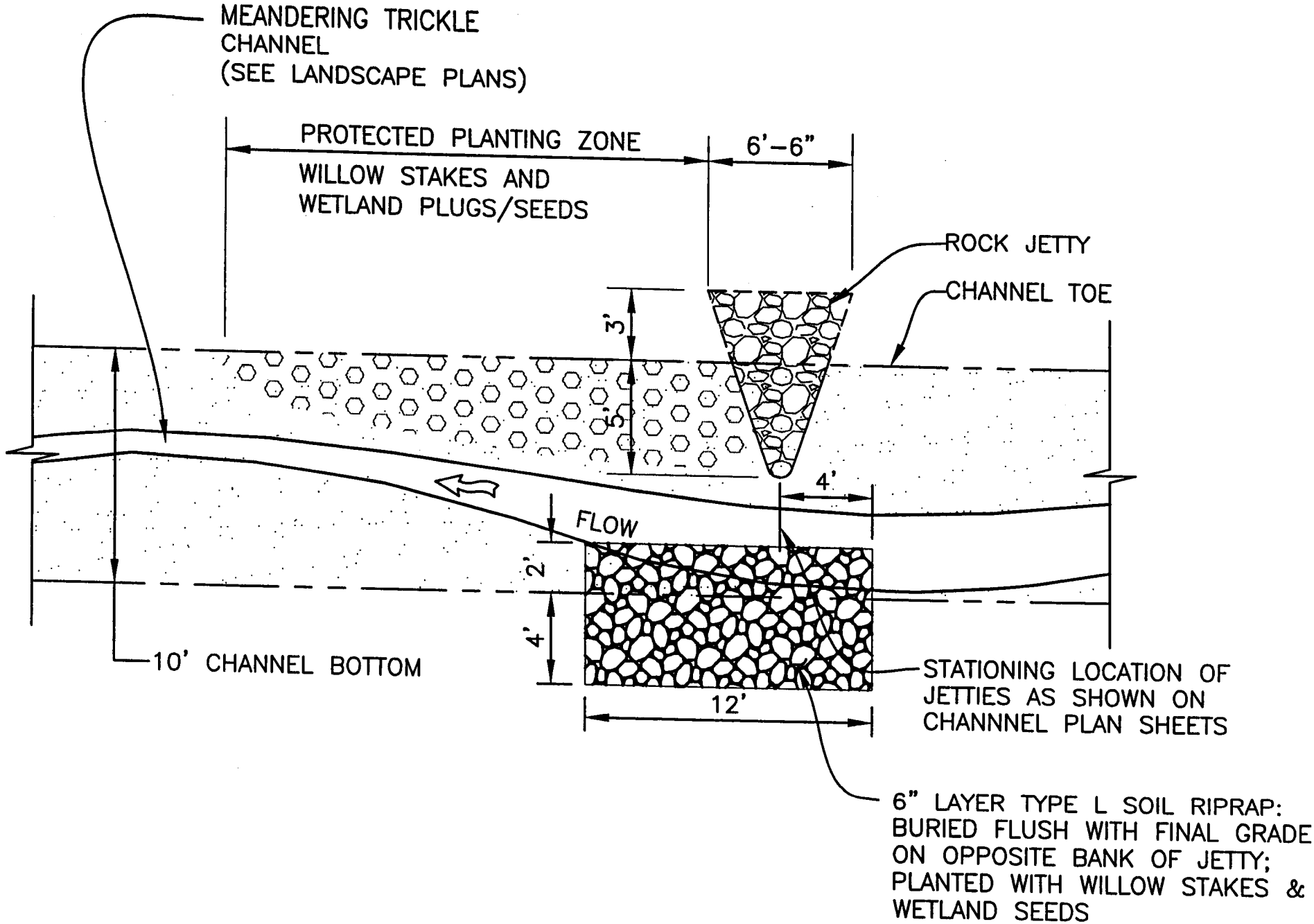
SCALE: 1/2"=1'-0"

CHANNEL EDGE WETLAND - TYPICAL SECTION

SHEET 6 of 7

LAKE ERIE BASIN TRIBUTARY #1

WENK ASSOCIATES



PLAN

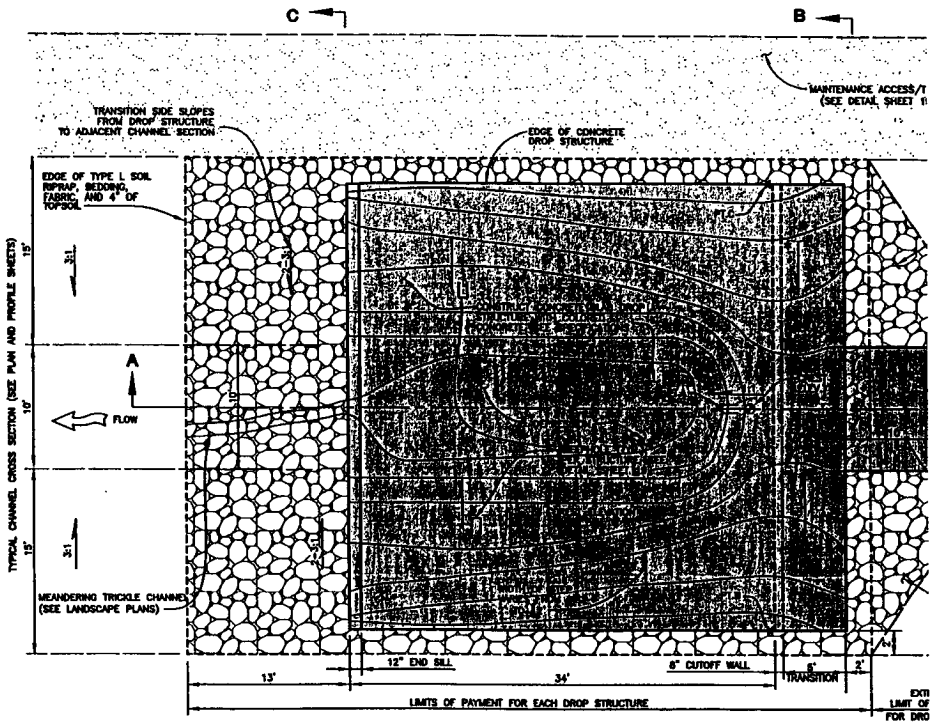
N.T.S.

ROCK JETTY

LAKE ERIE BASIN TRIBUTARY #1

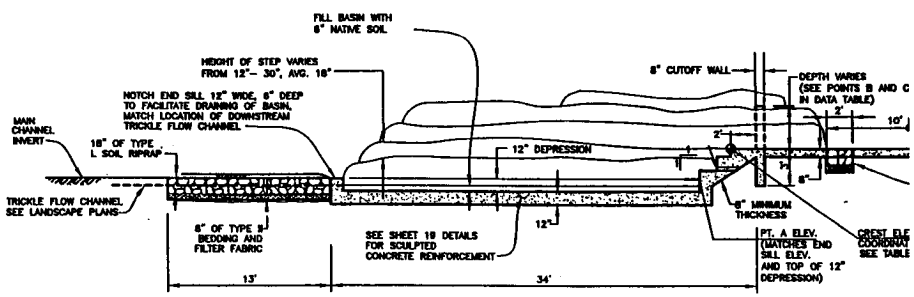
SHEET 7 OF 7

WENK ASSOCIATES



PLAN

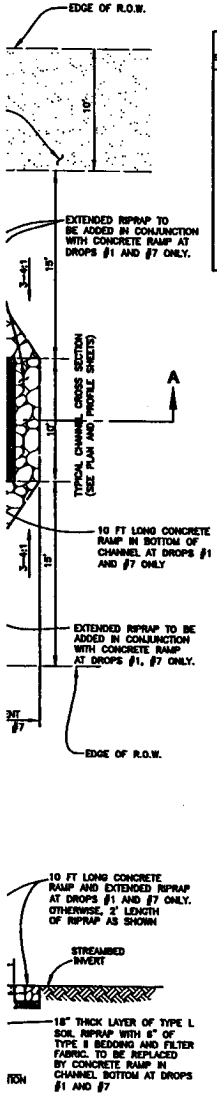
SCALE 1"=5'



SECTION A-A

SCALE 1"=5'

Sheet 10 Left

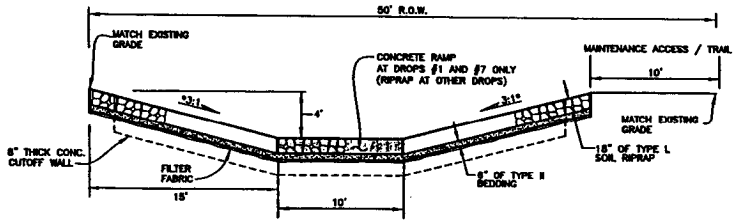


2 - 2.5' CONCRETE SLAB DROP STRUCTURE DATA TABLE

DROP STRUCTURE NO.	LOCATION – CREST CENTER			CREST ELEVATION	REFERENCE ELEVATIONS			CUTOFF WALL LENGTH
	⊕ COORDINATES		STATION		PT. A	PT. B	PT. C	
DROP 1	N=1773627.45	E=3150436.07	118+52.62	5137.8	5135.6	5140.14	5141.44	36'
DROP 2	N=1773467.98	E=3150587.15	120+72.86	5141.4	5138.9	5143.65	5144.06	36'
DROP 3	N=1773363.50	E=3150775.16	122+87.98	5145.0	5142.5	5148.46	5147.60	36'
DROP 4	N=1773297.80	E=3150893.21	124+23.10	5148.2	5145.7	5151.48	5150.19	36'
DROP 5	N=1773178.84	E=3151107.45	126+68.13	5151.5	5149.3	5155.40	5154.10	36'
DROP 6	N=1773111.22	E=3151245.54	128+22.27	5154.8	5152.3	5157.57	5157.57	36'
DROP 7	N=1773000.76	E=3151525.67	131+23.40	5158.8	5156.3	5162.07	5161.14	36'
DROP 8	N=1772934.64	E=3151693.17	133+04.01	5162.2	5159.7	5165.06	5164.19	36'
DROP 9	N=1772846.13	E=3151917.43	135+44.52	5165.9	5163.4	5168.15	5168.02	36'

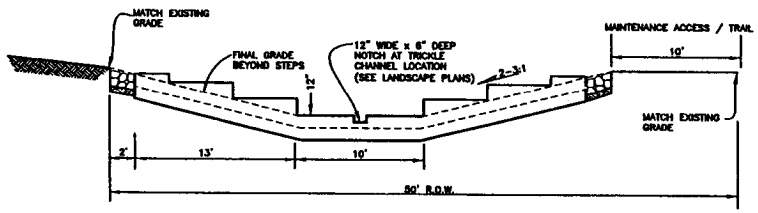
NOTE:

* SIDESLOPES OF DROP STRUCTURE MAY VARY ON LEFT AND RIGHT SIDES WITHIN EACH STRUCTURE DEPENDING ON ADJACENT PROPERTY ELEVATIONS AND DESIGN INVERTS. SLOPES SHOWN ARE THEREFORE APPROXIMATE. INDIVIDUAL DROP STRUCTURE SLOPES ARE TO BE DETERMINED BY THE ELEVATIONS IN THE TABLE ABOVE.



SECTION B-B

SCALE 1"=5'



SECTION C-C

SCALE 1"=5'

Sheet 10 Right

DESIGNED: CMR DATE:	MULLER ENGINEERING CO., INC. CONSULTING ENGINEERS BROOMFIELD, COLORADO 80020 777 GROVE TOWNSHIP BLVD. LAKEWOOD, COLORADO 80228 (303) 986-4999 PROJECT NO. 02023.02	ADAMS COUNTY	CITY O	ORNTON
DRAWN: BCB DATE:				
CHECKED: MSD DATE:				
REVISED: DATE:				
REVISED: DATE:				

URBAN DRAINAGE AND FLOOD CONTROL DISTRICT UDFCD PROJECT No. 02-03.04	LAKE ERIE BASIN TRIBUTARY #1 DRAINAGE IMPROVEMENTS	2-2.5' DROP STRUCTURE DETAILS	SHEET 10 OF