

May 16, 2016

RE: Construct Waterway; Construct Concrete Box Spillway; Vegetate Waterway &  
Concrete Box Area; Remove Old Terraces; Build New Terraces  
SE/4 Sec. 23-6N-17WIM (Less 5 acres sold) (Less well esmt)  
Lease #205668, Kiowa County OK

Dear Vendor,

Four Soil Conservation Project Request/Bid Solicitation Forms are enclosed for the above-referenced projects located on Commissioners of the Land Office property. All bids received will be evaluated on a “Lowest Responsible” bid. Bids must be returned to the office in Oklahoma City on or before **June 8, 2016 by 2:00 p.m.**, to be considered for these projects. Bids received after the time and date indicated or incomplete bid forms will not be considered.

If you are interested in being considered for these projects, complete the enclosed Project Request/Bid Solicitation Forms. You must fill in the Units, Unit Price, Totals and Project Totals fields on the forms. Incomplete forms will not be considered.

If you are selected as “Lowest Responsible” bidder; current general liability insurance information along with worker’s comp or insurance document showing an exemption from workers compensation will be required.

The projects will be considered complete after the supervising Real Estate Management Specialist certifies the specifications of the enclosed bid have been met.

If you are not interested in being considered for these projects, please return the forms with “No Bid” written on it. This will indicate that you do not wish to bid at this time but may like to bid on future projects.

If you have any questions about these projects contact me at 405-521-4149. Be sure to check our website at [www.clo.ok.gov](http://www.clo.ok.gov) for questions and answers that arise during the bidding of these projects.

Sincerely,



Tonja DeFatta, CPO  
Real Estate Management Division  
[tonja.defatta@clo.ok.gov](mailto:tonja.defatta@clo.ok.gov)





23

28

SE 23-6-17

Concrete Drop

Waterway

25

*Estimate*

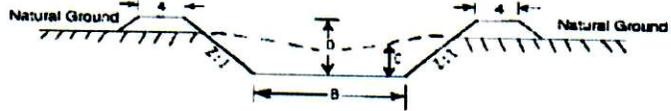
# Waterway Data Sheet - Design & Checkout

Landowner *Porter School Land*  
ID Number 0

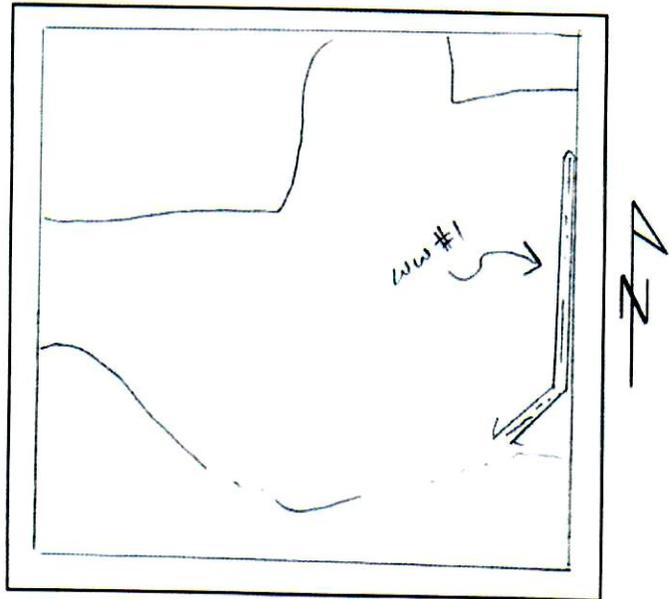
Legal Description *SE 23~~4~~-17*  
Field Number 0

Field Office 0  
County 0

Waterway Number	1	1
Beginning Station	+	7+00
Ending Station	N/A	14+00
Drainage Area (ac)	27	123
Peak Flow (cfs)	50	160
Kind of Vegetation	bermuda	bermuda
Velocity Retardance	D	D
Capacity Retardance	C	C
Channel Slope (%)	1	2.3
Velocity (fps)	2.9	5.0
Cross-Section Area (sq ft)	17.2	31.8
Flow Depth - Stability (ft)	0.92	0.83
Flow Depth - Capacity (ft)	1.05	0.90
Depth plus Freeboard (ft), (D)	1.5	1.3
Bottom Width (ft), (B)	15	35
Side Slopes (x:1), (Z)	4	4
Average Cut (ft), (C)	0.8	0.8



Construction Requirements:



	1	1
Length (ft)	700	700
Area of Excavation (sq ft)	14.6	30.6
Width of Excavation (ft)	21	41
Extent Width (ft)	46	82
Total Quantity (ac)		2.3

Designed by:

Date: 3/8/2016

Approved by:

Date:

Checkout Cross-section taken at Station \_\_\_\_\_

Dist.	Rod

This practice meets NRCS specifications.

Outside Party:

Date:

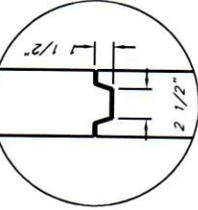
NRCS:

Date:

Designed \_\_\_\_\_  
 Drawn \_\_\_\_\_  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

Date \_\_\_\_\_

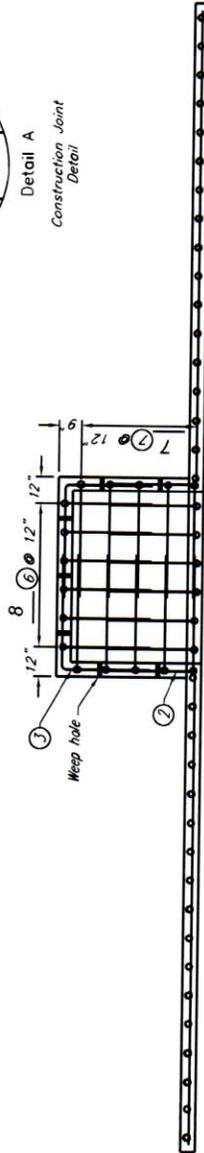
Note: Weep holes shall be 2 inches in diameter, spaced evenly around box at approximately 24 inch centers. The bottom of the weep holes shall be 1 inch above the floor of the box.



Steel Schedule

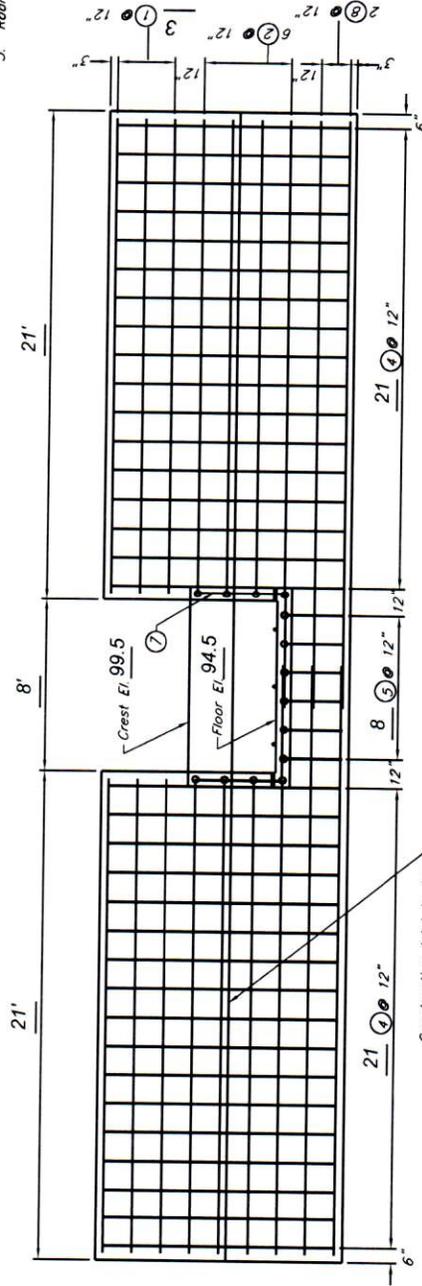
Mark	Type	Quantity	A (ft-in)	B (ft-in)	Length (ft-in)
1	1	6	20-6	20-6	123-0
2	3	12	20-6	4-0	294-0
3	3	12	5-0	4-0	108-0
4	7	42	10-0	10-0	420-0
5	5	8	4-0	2-0	48-0
6	3	8	4-0	5-0	72-0
7	3	14	5-0	5-0	140-0
8	7	4	25-6	---	102-0

Total Length **1307 feet**  
 Weight **873 lbs.**  
 Concrete Volume **11.56 cu. yds.**



Top View  
(Not to scale)

- Notes:
- All bars are #4 (1/2-inch diameter) Grade 40 steel.
  - Place bars in center of walls and floor.
  - Radius of bar bends is to be 1 1/2 inches.



Front View  
(Not to scale)

ESTIMATE



Drawing Name  
 6/2/11 403 HW  
 Sheet 2 of 3

Reinforced Concrete Box Drop Spillway 5-Foot Overfall Height

Before any investigation or construction activity, the excavator is responsible for calling Oklahoma One Call at 800-522-6543

Table of Quantities

Item	Unit	Quantity
Excavation	cu.yds	250
Earthfill	cu.yds	350
Concrete (structure only)	cu.yds	11.56
Reinforcing steel	lbs.	873
Drainfill	tons	8.5
Geotextile, nonwoven	sq.yds.	20.8
PVC pipe, Sch. 40, 2-inch dia.	feet	
Inlet protection, Option --C--		
Geotextile	SY	12.7
Riprap	Tons	5.1
Outlet protection, Option --C--		
Geotextile	SY	33.1
Riprap	Tons	14.7
Seeding	acres	.5

Bench mark description: Top of N Headwall on county road box culvert  
Elevation 100.0

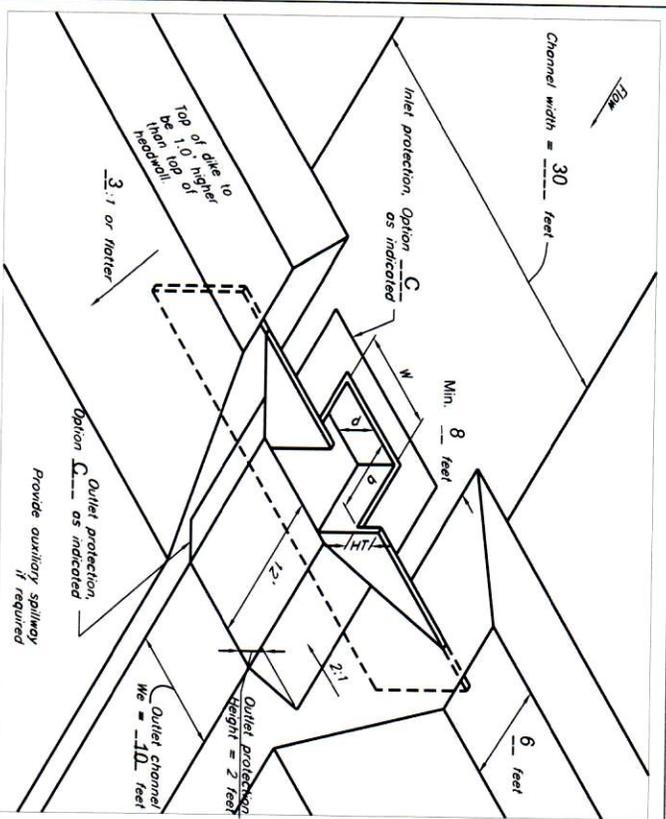
**Drainfill Gradation Requirements**

Sieve No.	% Passing
3/8"	100
4	95-100
8	80-100
16	50-85
30	25-60
50	5-30
100	0-10
200	0-5

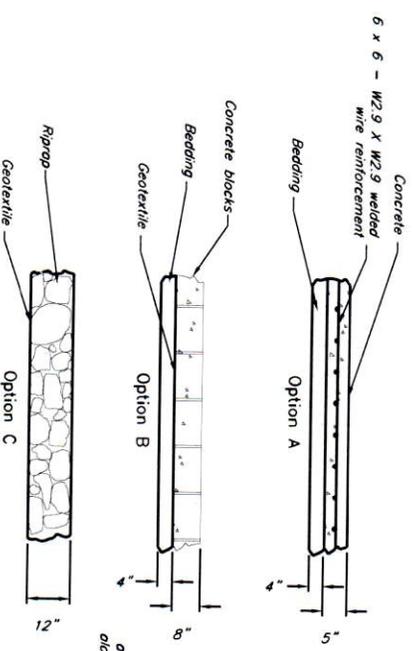
Material passing the No. 200 sieve shall be non-plastic.

**Riprap Gradation Requirements**

Riprap Size (in)	Gradation (% Passing)
12	100
9	80-75
6	35-50
3	10-40
1 1/2	10



- Notes:
1. Provide 2-foot deep footing on downstream end of outlet protection when using Option A.
  2. Provide 3/4"-on performed expansion joint filler between structure and concrete slabs when using Option A for inlet or outlet protection.
  3. Bedding material as shown on Option A is required only for moderate to high shrink or swell potential soils.
  4. Provide 1-foot deep vertical imbedding of filter fabric on all edges of inlet and outlet protection when using Options B or C.
  5. Form ties to be snapped off and coarses removed. Remaining holes to be grouted flush to finished wall surface in a workman like manner.



Before any investigation or construction activity, the excavator is responsible for calling Oklahoma One Call at 800-522-6545

Reinforced Concrete Box Drop Spillway

