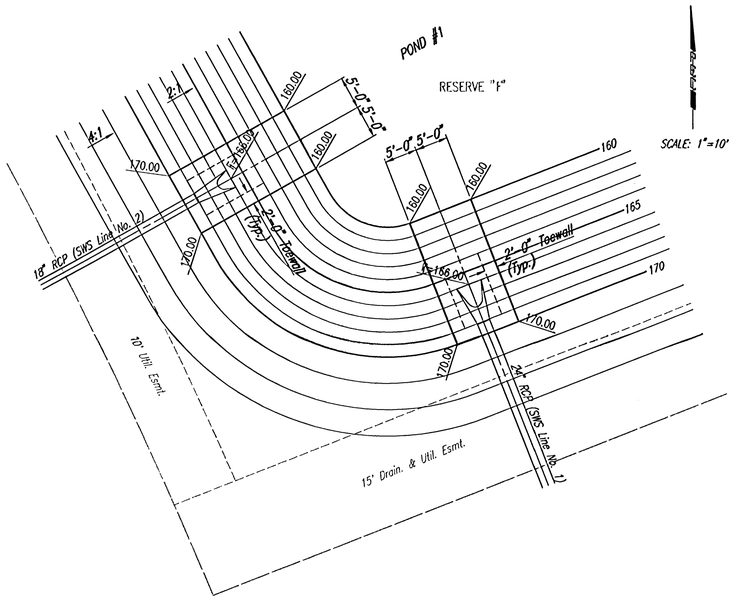
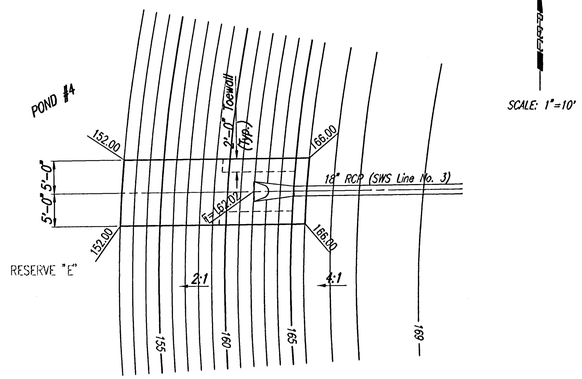
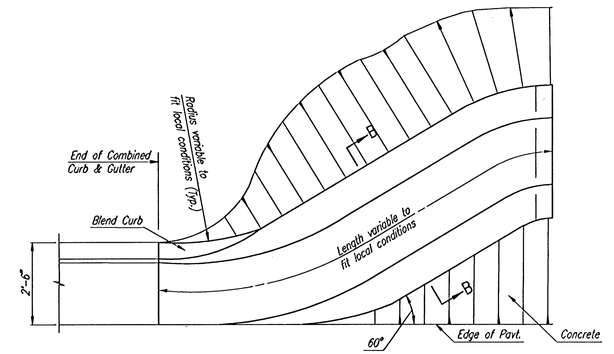


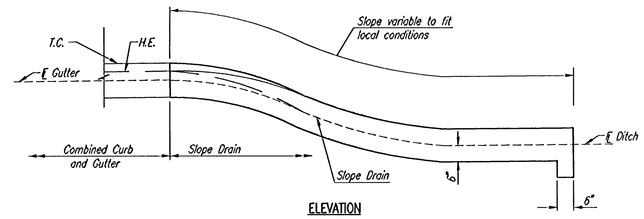
RIPRAP PLAN
(SWS Line No. 1 & 2)



RIPRAP PLAN
(SWS Line No. 3)

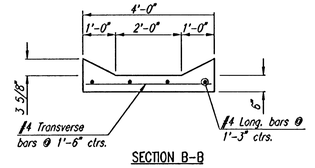


PLAN

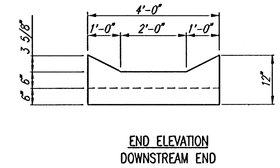


ELEVATION

NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING CLAY POND LINING AT ALL LOCATIONS WHERE PIPE AND/OR RIPRAP ARE INSTALLED. LINING MATERIAL SHALL BE A 12" LAYER OF HEAVY CLAY (P.I.>25) INSTALLED IN 6" LIFTS AND COMPACTED TO 95% STD. DENSITY OR AS OTHERWISE APPROVED BY THE ENGINEER. THIS WORK SHALL BE SUBSIDIARY TO "LIGHT STONE RIPRAP".



SECTION B-B



END ELEVATION
DOWNSTREAM END

SLOPE DRAIN DETAILS

SLOPE DRAIN NOTES

1 THE ENTIRE AREA OF THE SLOPE DRAIN TO BE POURED MONOLITHICALLY AND STRUCK OFF WITH A UNIFORM MINIMUM THICKNESS OF 6 INCHES; THE CURBS AND SLOPES ARE TO BE APPLIED IN THE SAME MANNER, USING THE SAME METHODS AS FOR EDGE CURB.

2 CONCRETE USED IN SLOPE DRAIN AND TOE WALL SHALL BE SAME AS THAT USED FOR COMBINED CURB AND GUTTER.

3 NO EXPANSION OR CONTRACTION JOINTS TO BE PLACED WITHIN THE LIMITS OF THE SLOPE DRAIN.

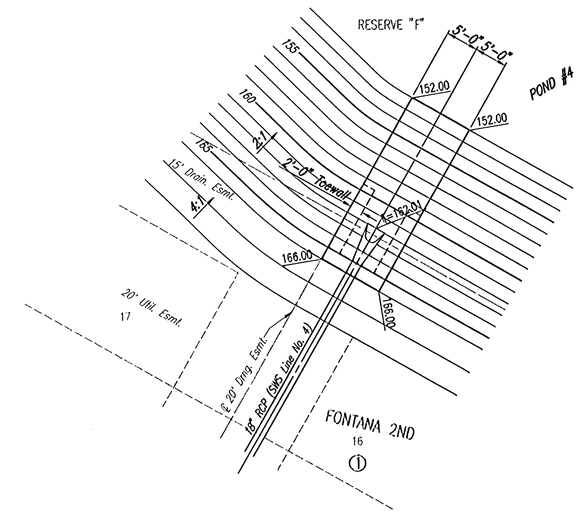
4 ALL EXPOSED EDGES SHALL BE FINISHED WITH AN EDGING TOOL.

5 ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615 SPECIFICATION GRADE 60.

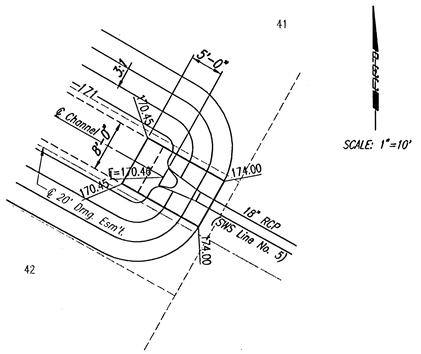
6 ALL DIMENSIONS RELATIVE TO PLACEMENT OF REINFORCING STEEL ARE TO CENTERLINE OF BARS UNLESS OTHERWISE NOTED. ALL BARS ARE #4 BARS AND SHALL HAVE A MINIMUM CLEARANCE OF 1-1/2" UNLESS OTHERWISE NOTED.

7 REINFORCING STEEL IS SUBSIDIARY TO SLOPE DRAIN.

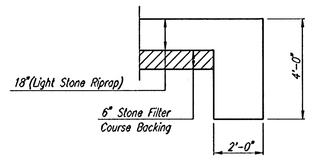
8 SLOPE DRAINS SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH. THIS SHALL BE CONSIDERED FULL COMPENSATION FOR ALL EXCAVATION, BACKFILLING, MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.



RIPRAP PLAN
(SWS Line No. 4)



RIPRAP PLAN
(SWS Line No. 5)



TYPICAL SECTION THRU TOEWALL
NO SCALE

NOTES

1. ALL RIPRAP FOR THIS PROJECT SHALL BE NATURAL STONE. NEITHER BROKEN CONCRETE, FABRIC ENVELOPE, NOR PREMIXED DRY PACKAGED CONCRETE BAG ALTERNATES WILL BE ALLOWED.
2. TOEWALLS SHALL BE INSTALLED ALONG ALL EDGES OF STONE RIPRAP OR AS SHOWN ON PLANS.
3. GROUTING OF THE SURFACE OF THE RIPRAP SHALL NOT BE PERFORMED. GROUTING OF THE TOEWALLS SHALL BE PERFORMED PER CITY SPECIFICATIONS.
4. DEPTH OF TOEWALL SHALL NOT BE DEEPER THAN THE POND FLOOR (POND #1 ELEV=160.0 POND #4 ELEV.=152.0).

BRIAN D. BOUTWELL LICENSED 10889 PROFESSIONAL ENGINEER 3/4/05

No.	Revision	By	Date

FONTANA ADDITION-PHASE 1

MISCELLANEOUS DRAINAGE DETAILS

JAMES L. ARMOUR, P.E.- CITY ENGINEER
CITY OF WICHITA PROJECT NO. 472-84086

Professional Engineering Consultants, P.A.
303 S. TOPEKA • WICHITA, KANSAS 67202
316-262-2691 • FAX 316-262-3003

Designed by	BDB, BLB	Job No.	35-04485-000
Drawn by	BJS	Date	September 2004

Sheet 52 of 101

Saved 03-14-2006 8:45:48 AM by BJS
Plotted 3-14-2006 8:46:29 AM by BJS
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