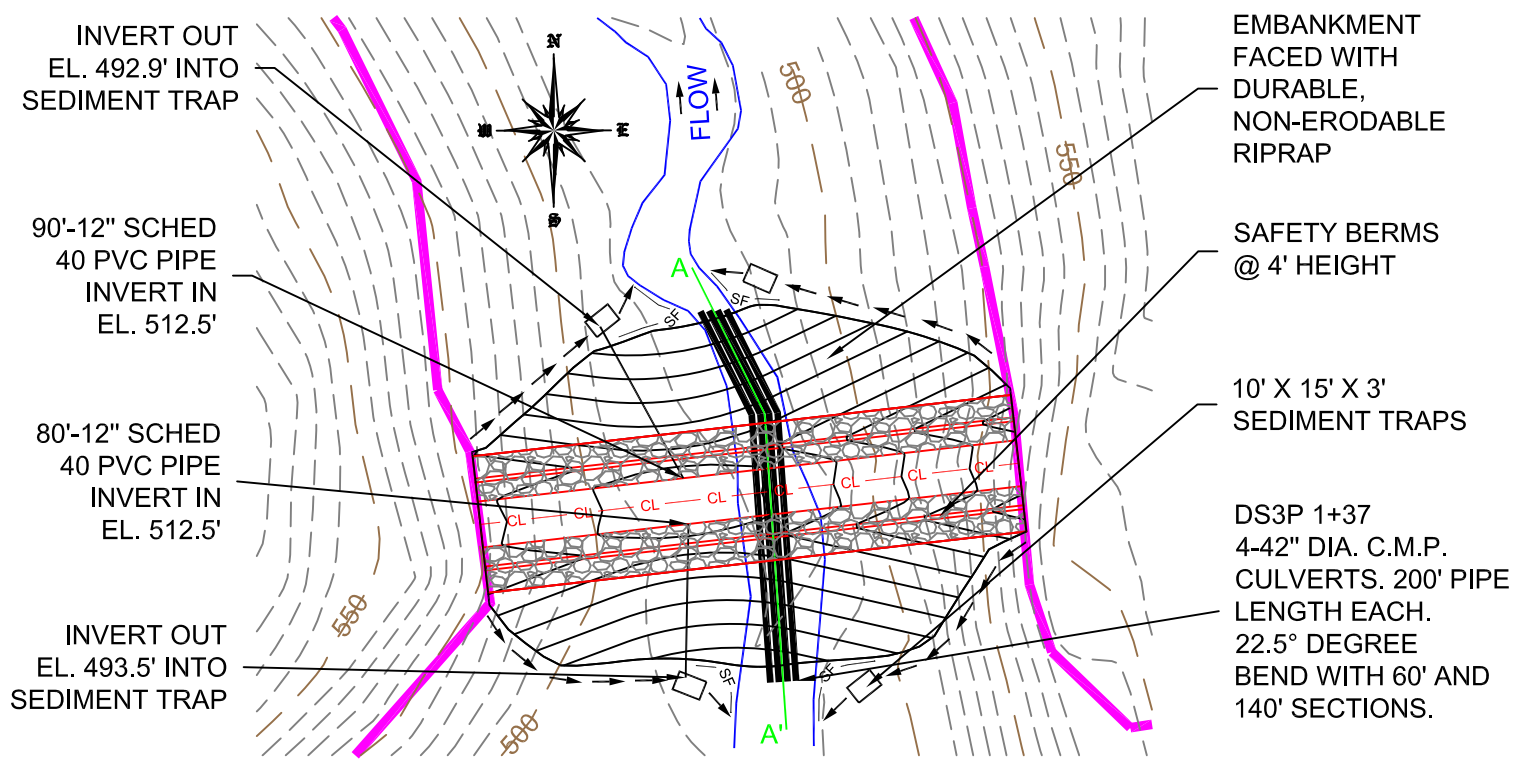
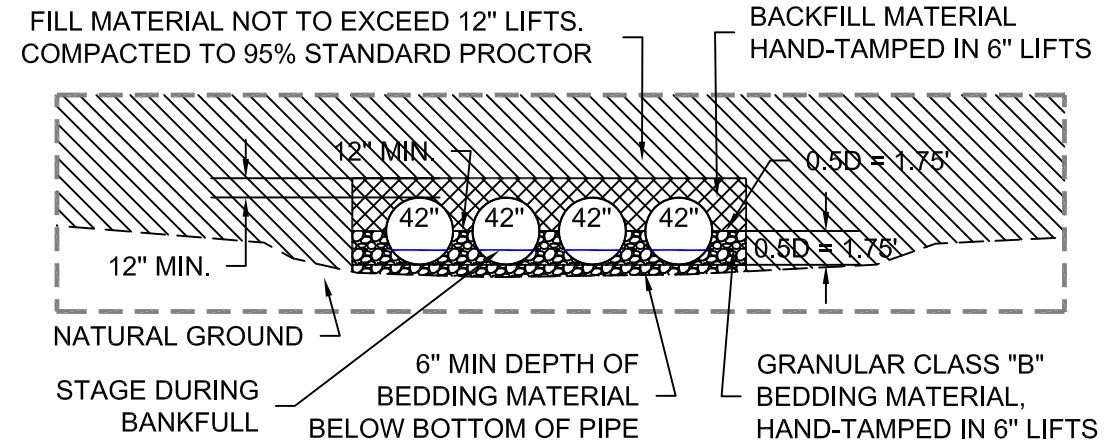
DETAILED PLAN VIEW DRAWING

SCALE: 1" = 100'



DETAIL A

SCALE: 1" = 10'



HYDRAULIC INFORMATION (BANKFULL)
*NORMAL (BANKFULL) FLOW = 38.7 CFS
**BANKFULL STAGE EL. = 490.0
***WATER DEPTH IN PIPES = 0.76'
WATER STAGE EL. IN PIPES = 489.3

HYDRAULIC INFORMATION (DESIGN)
DRAINAGE AREA = 440 ACRES (0.69 SQMI)
10 YR, 6 HR DESIGN FLOW = 522.4 CFS
10 YR, 6 HR DESIGN STAGE EL. = 499.5
MINIMUM ROADWAY FILL EL. = 512.8

* BANKFULL FLOW DETERMINED FROM REGIONAL CURVE
** BANKFULL STAGE DETERMINED FROM FIELD VARIFICATION
*** WATER DEPTH DETERMINED FROM BANKFULL FLOW IN PIPES

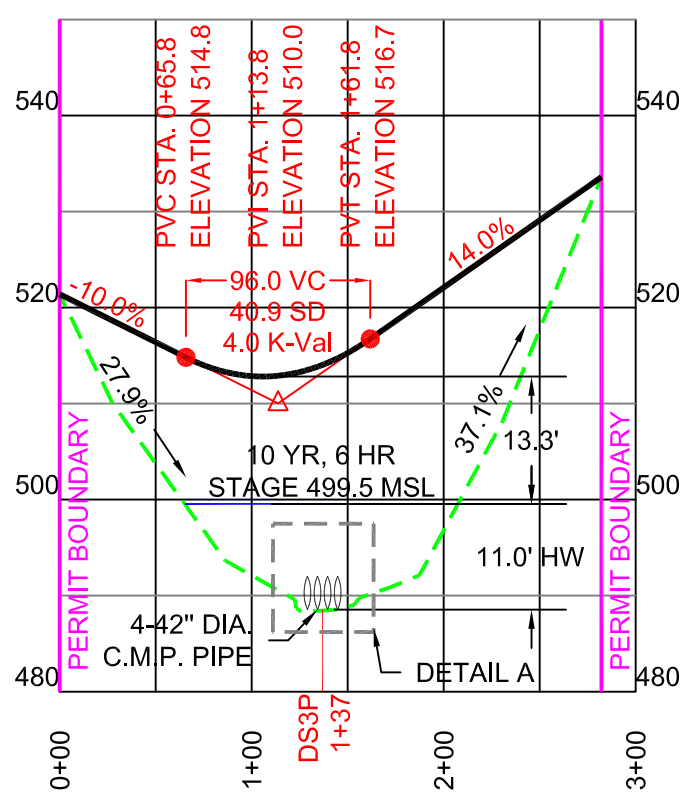
DRAINAGE STRUCTURE WILL NOT CAUSE AN INCREASE IN BANKFULL STAGE AS SHOWN IN ELEVATIONS OF BANKFULL STAGE AND PIPE FLOW STAGE

PLAN VIEW LEGEND
- PERMIT BOUNDARY
- EXISTING CONTOURS
- PROPOSED CONTOURS
- DRAINAGE COURSE
- DIVERSIONS
- SILT FENCING
- ROAD CENTERLINE
- FILL EXTENTS
- SAFTEY BERM

PROFILE LEGEND
- PERMIT BOUNDARY
- EXISTING SURFACE
- PROPOSED SURFACE
- 10 YR-6 HR STAGE
- DRAINAGE STRUCTURE
- PVC/PVT
- PVI

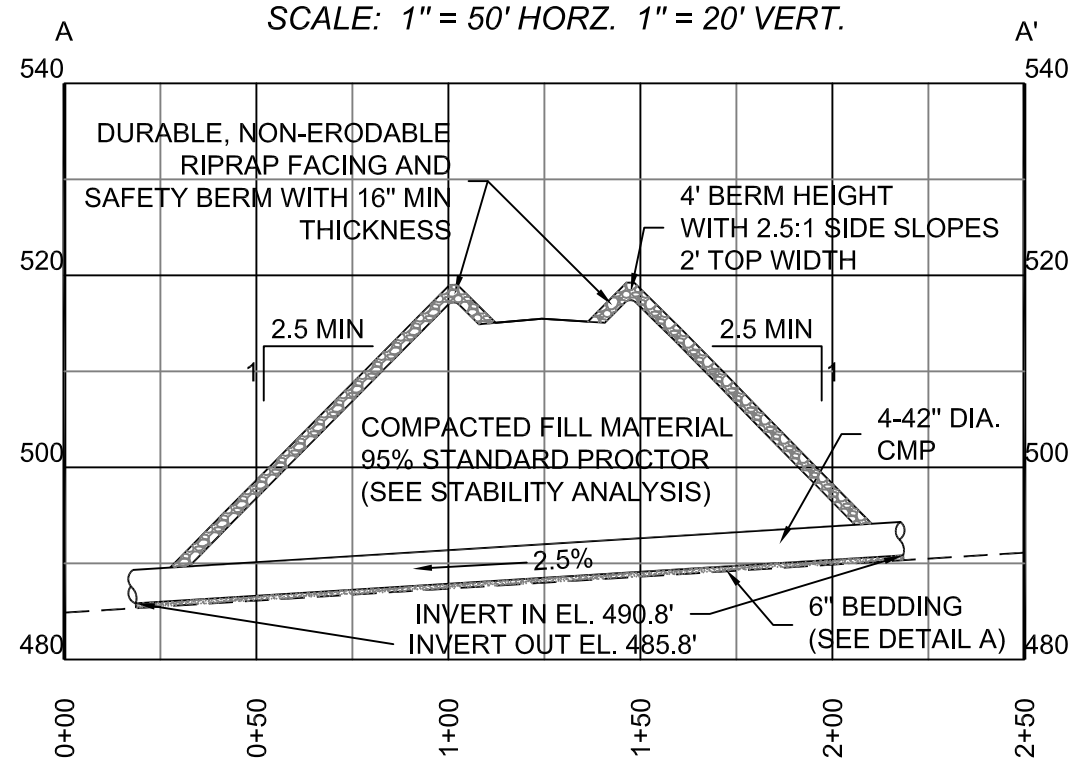
DETAILED PROFILE

SCALE: 1" = 100' HORZ. 1" = 20' VERT.



CROSS-SECTION A-A'

SCALE: 1" = 50' HORZ. 1" = 20' VERT.



DSM
DESIGN GROUP, LLC
ENGINEERING / SURVEYING
1400 VIKING DRIVE
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BIRMINGHAM COAL & COKE, INC
GOODEN CREEK NO. 2 MINE

DRAINAGE STRUCTURE DS3P 1+37
DETAILED DESIGN DRAWINGS

DRAWN BY: Z.B.W. 03/28/2013	APPROVED BY: J.D.M. 03/28/2013	SCALE: AS NOTED	SHEET: 1