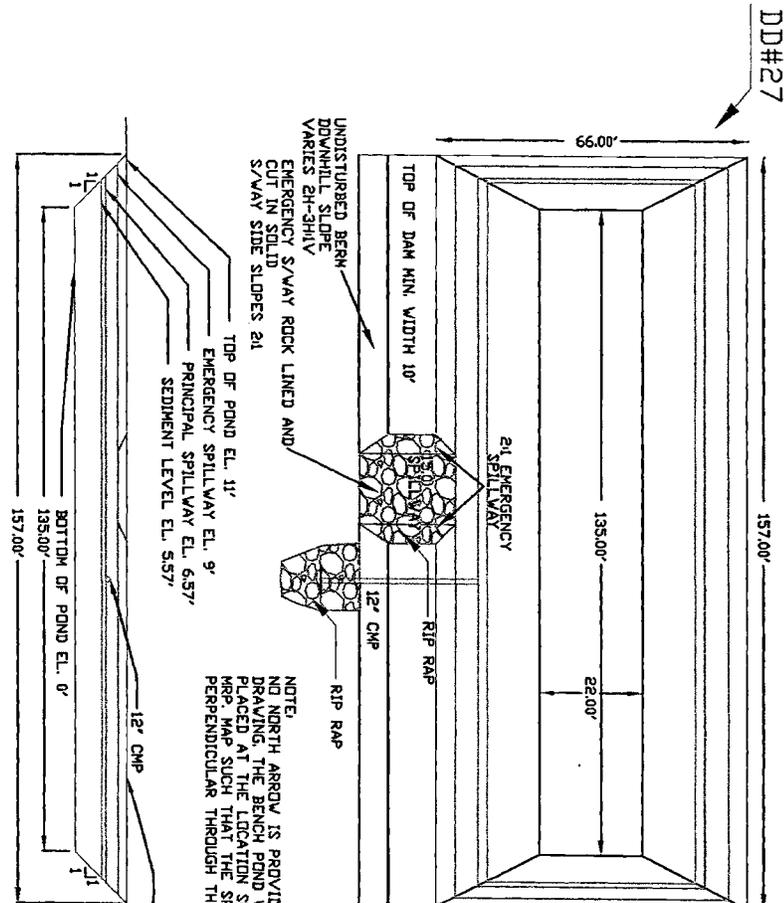


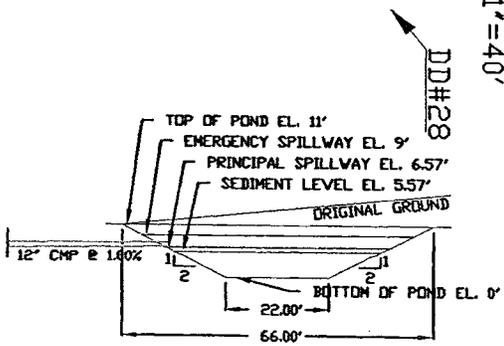
US EPA ARCHIVE DOCUMENT

ATTACHMENT 31.3.C



NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

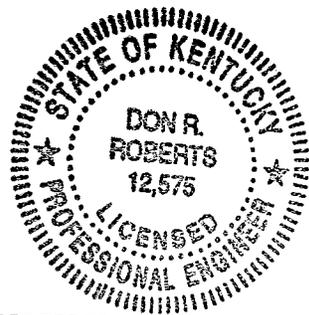
THE DESIGN SPECIFIES ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS COAL SEAM ROLLS. THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS, THEREFORE NO ELEVATIONS ARE SHOWN. APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.



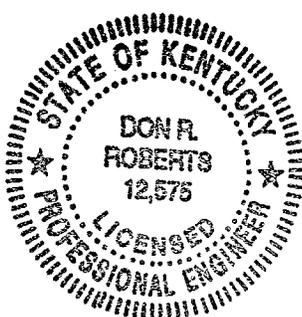
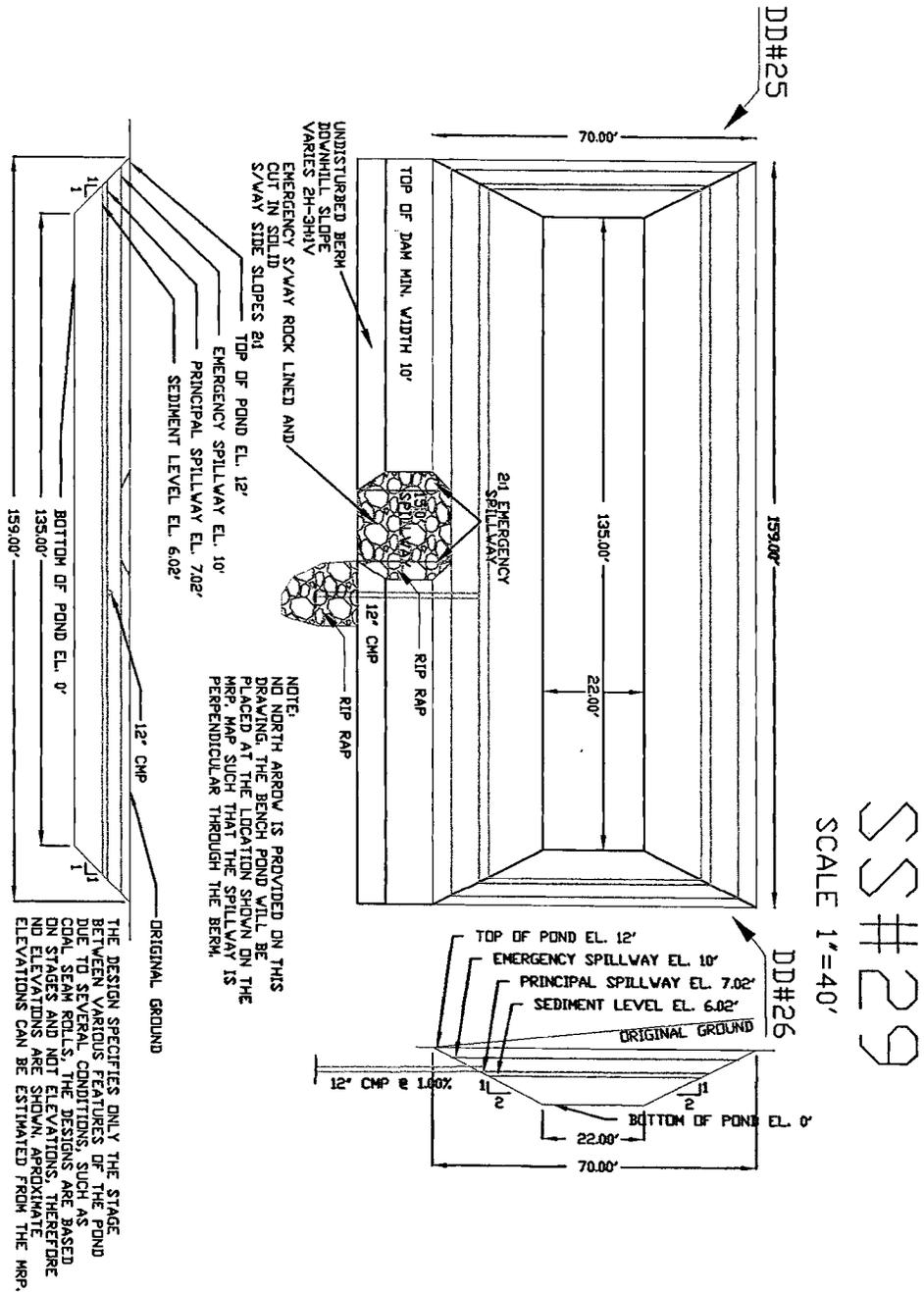
SS#28  
SCALE 1"=40'

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



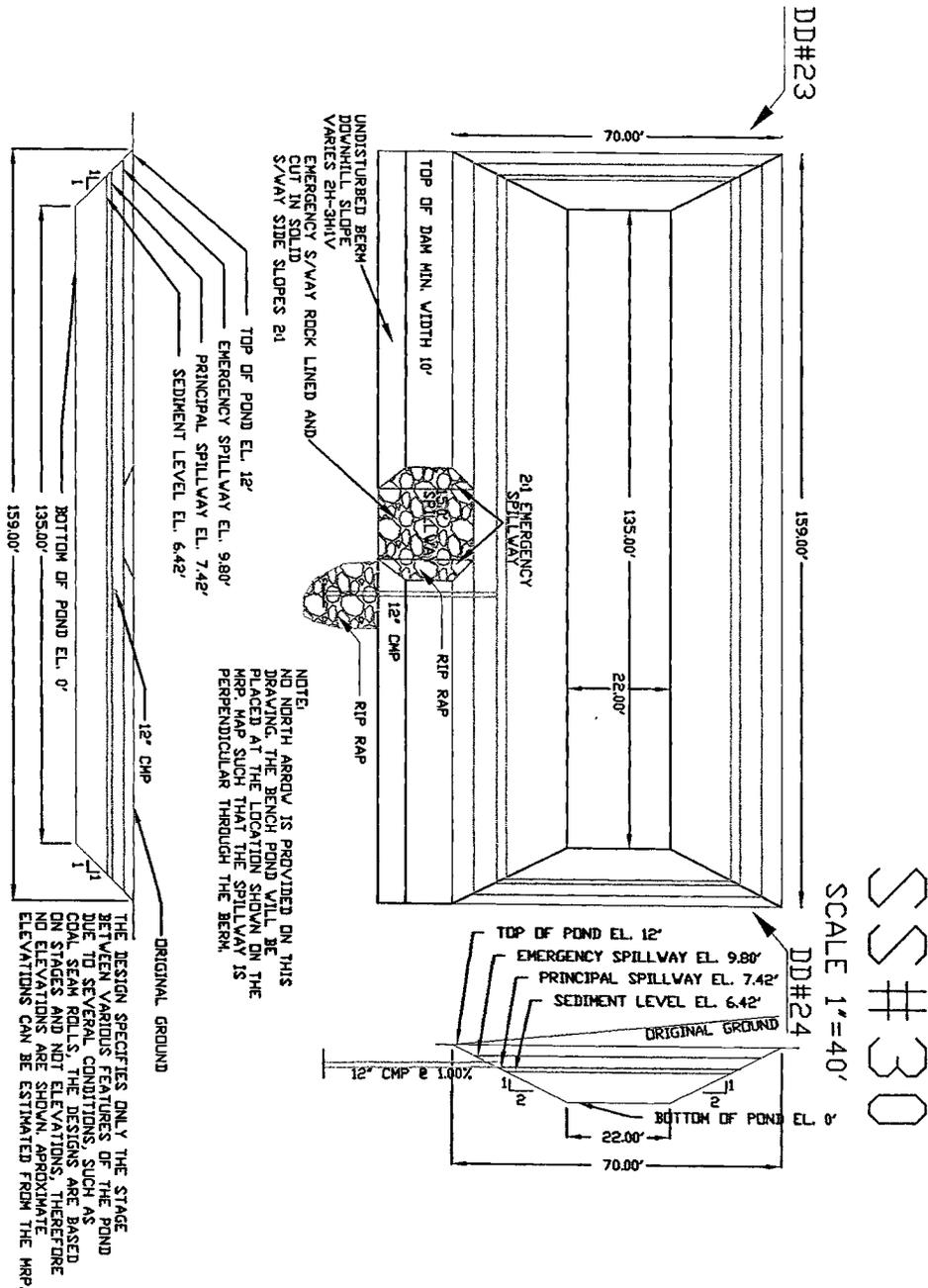
ATTACHMENT 31.3.D



I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

ATTACHMENT 31.3.E

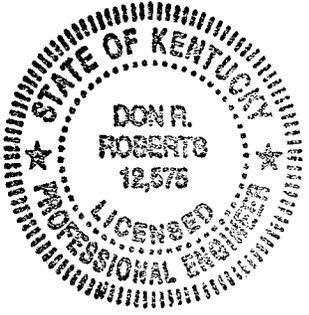


SS#30

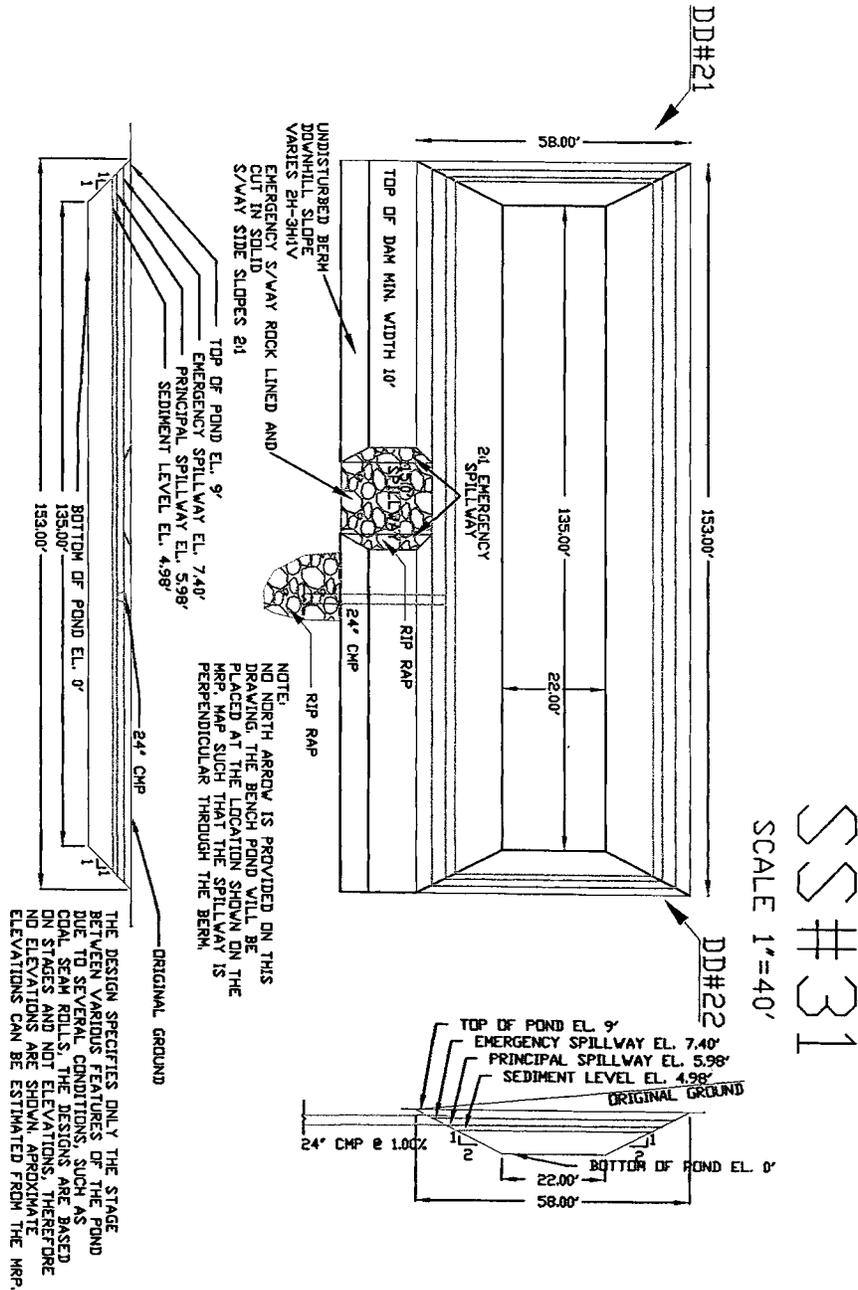
SCALE 1"=40'

I, Don Roberto, 12575, 08-26-08,  
 (signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

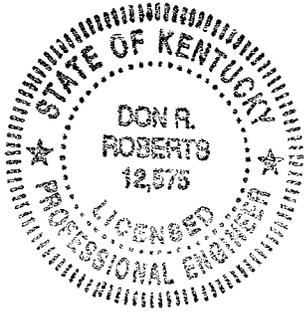


ATTACHMENT 31.3.F

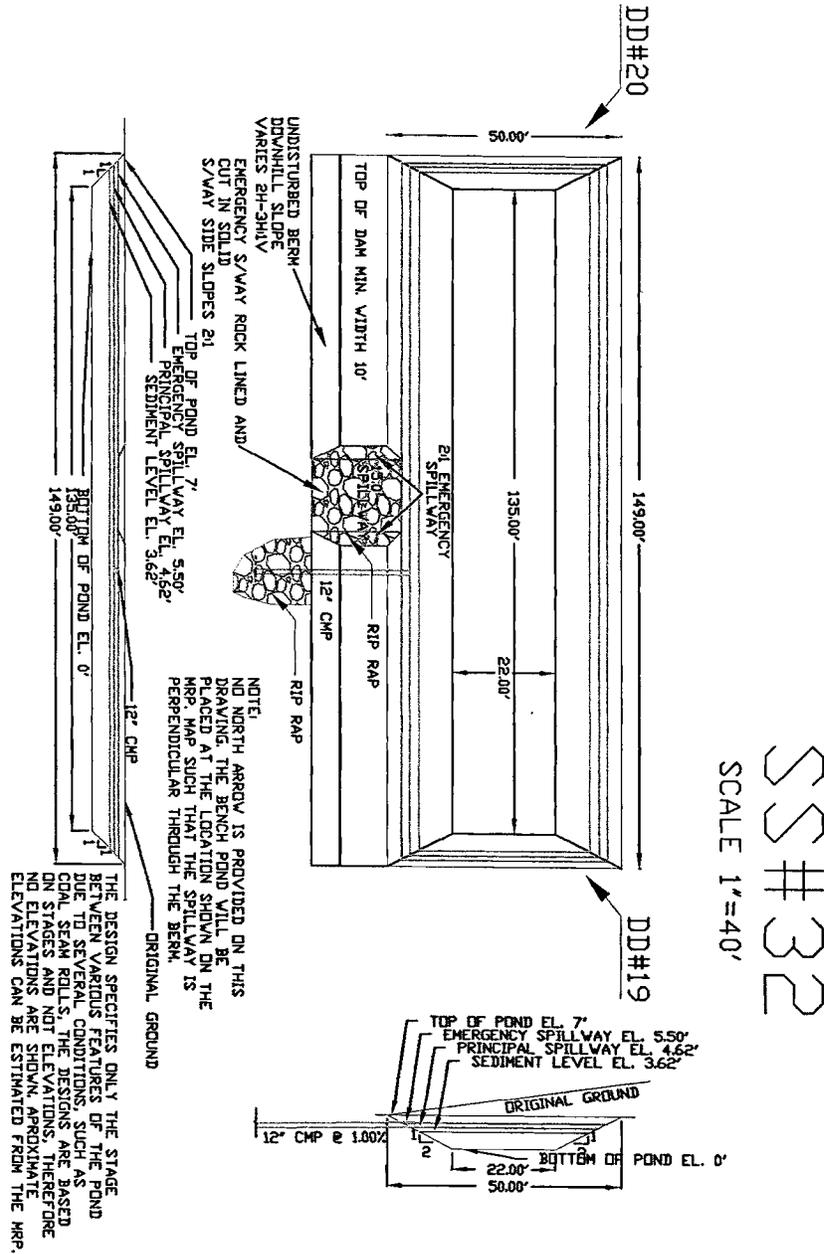


I, Don Roberts, 12575, 08-26-08,  
 (signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

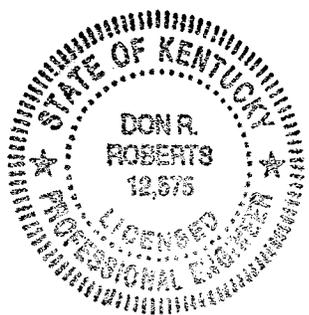


ATTACHMENT 31.3.G

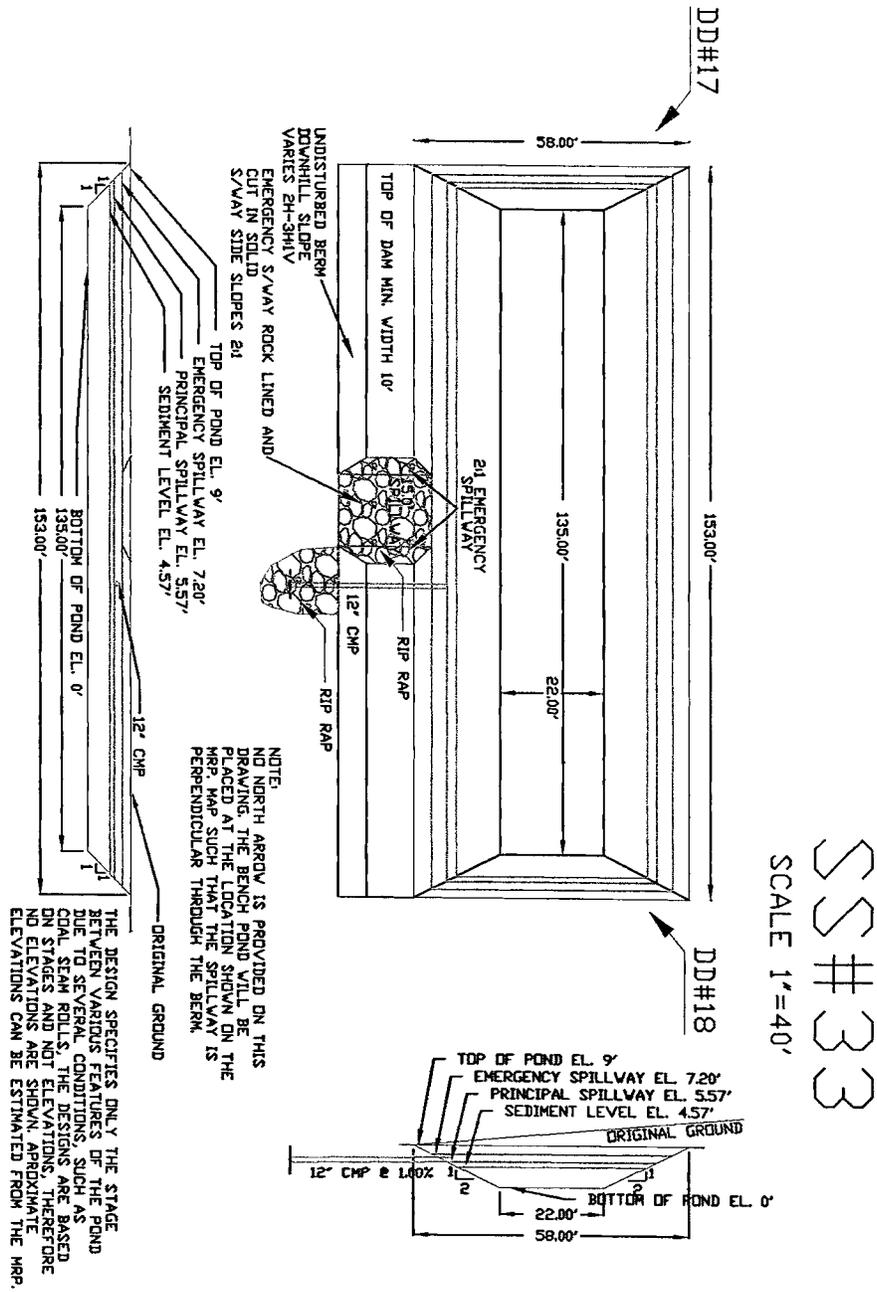


I, Don R. Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that  
this document is correct as determined by accepted engineering  
practices and includes all the information required of it by KRS  
Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.H

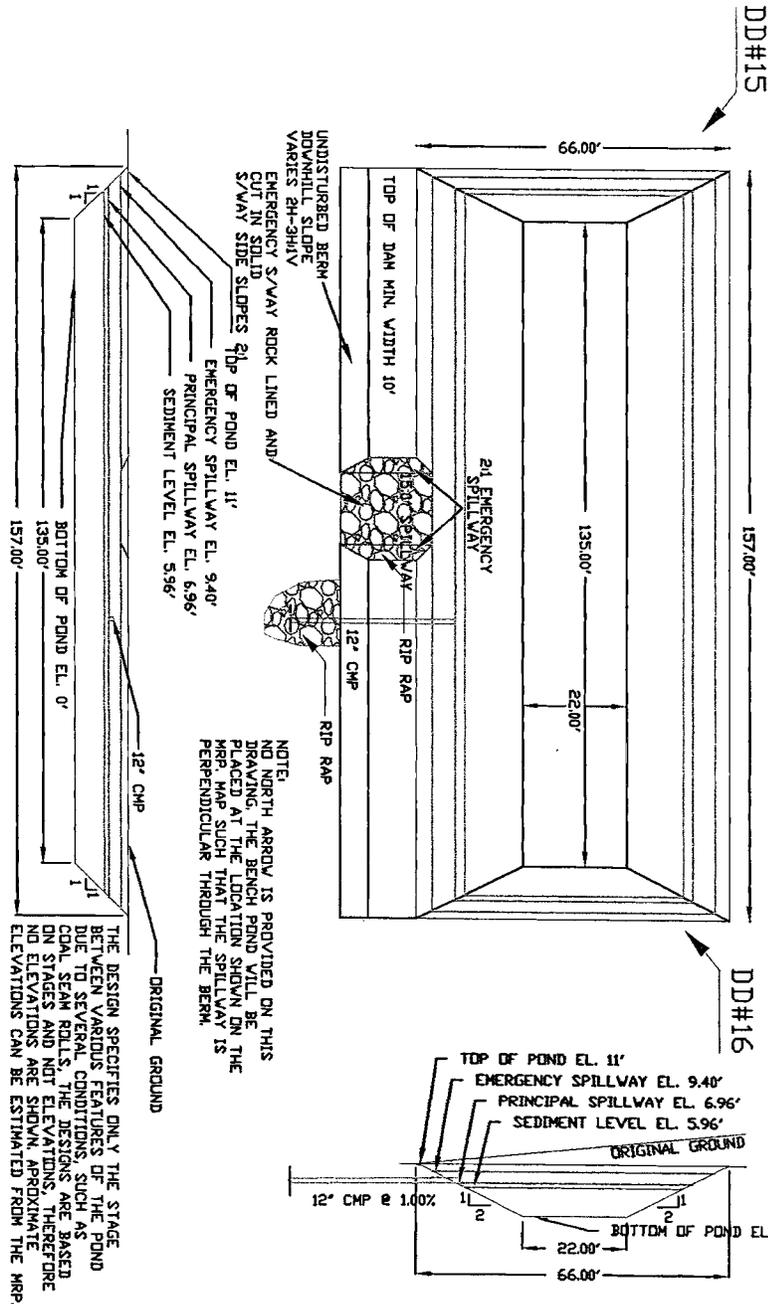


I, Don Roberts, 12575, 08-26-08,  
 (signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



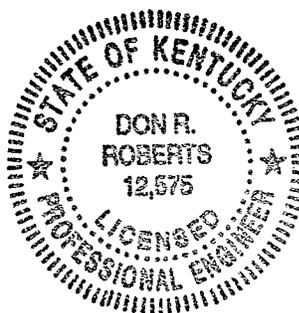
ATTACHMENT 31.3.I



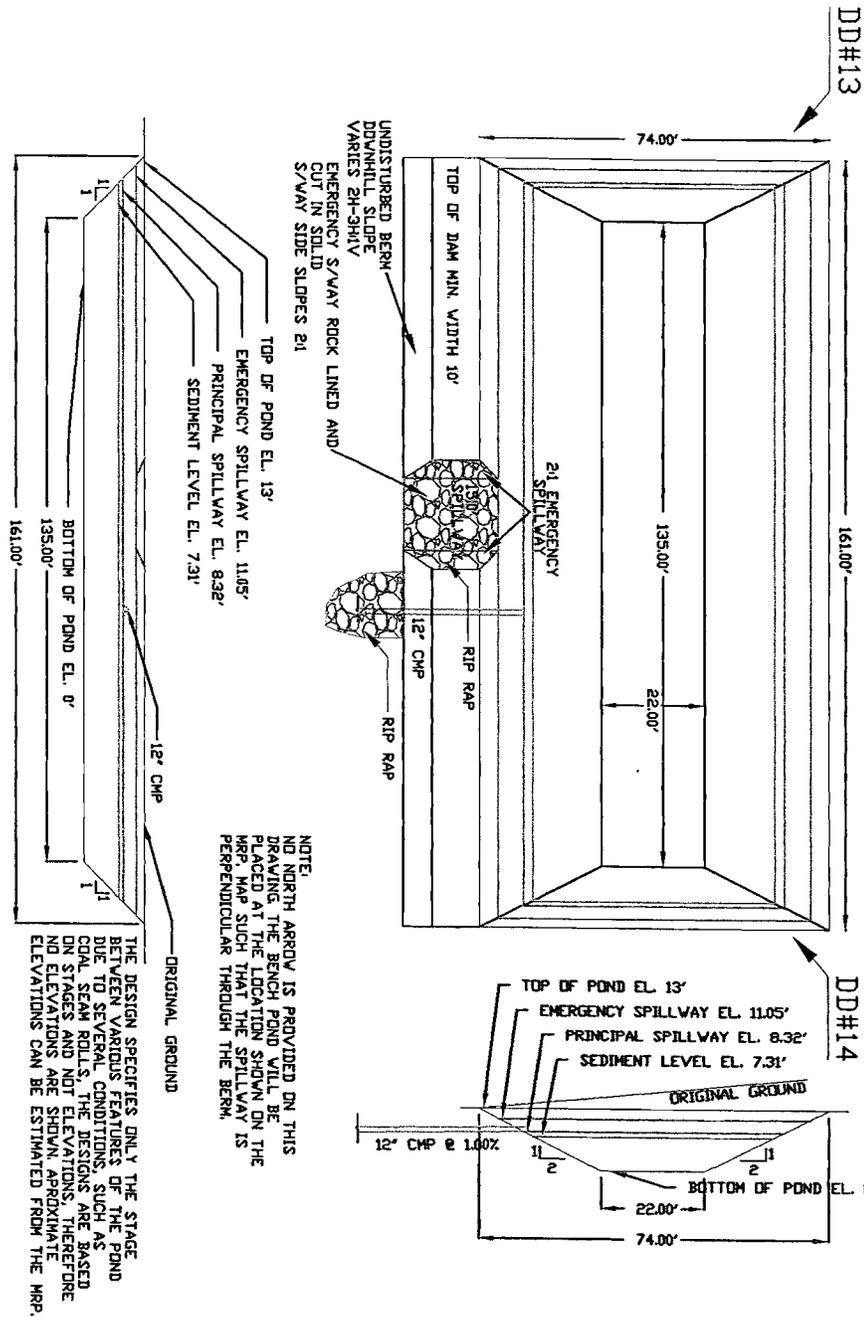
SS#34  
SCALE 1"=40'

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.5



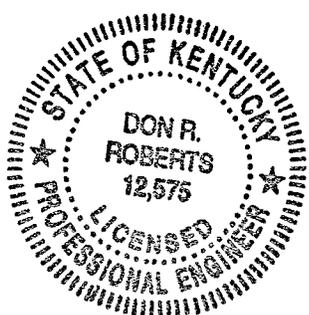
SS#35  
SCALE 1"=40'

NOTE:  
NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

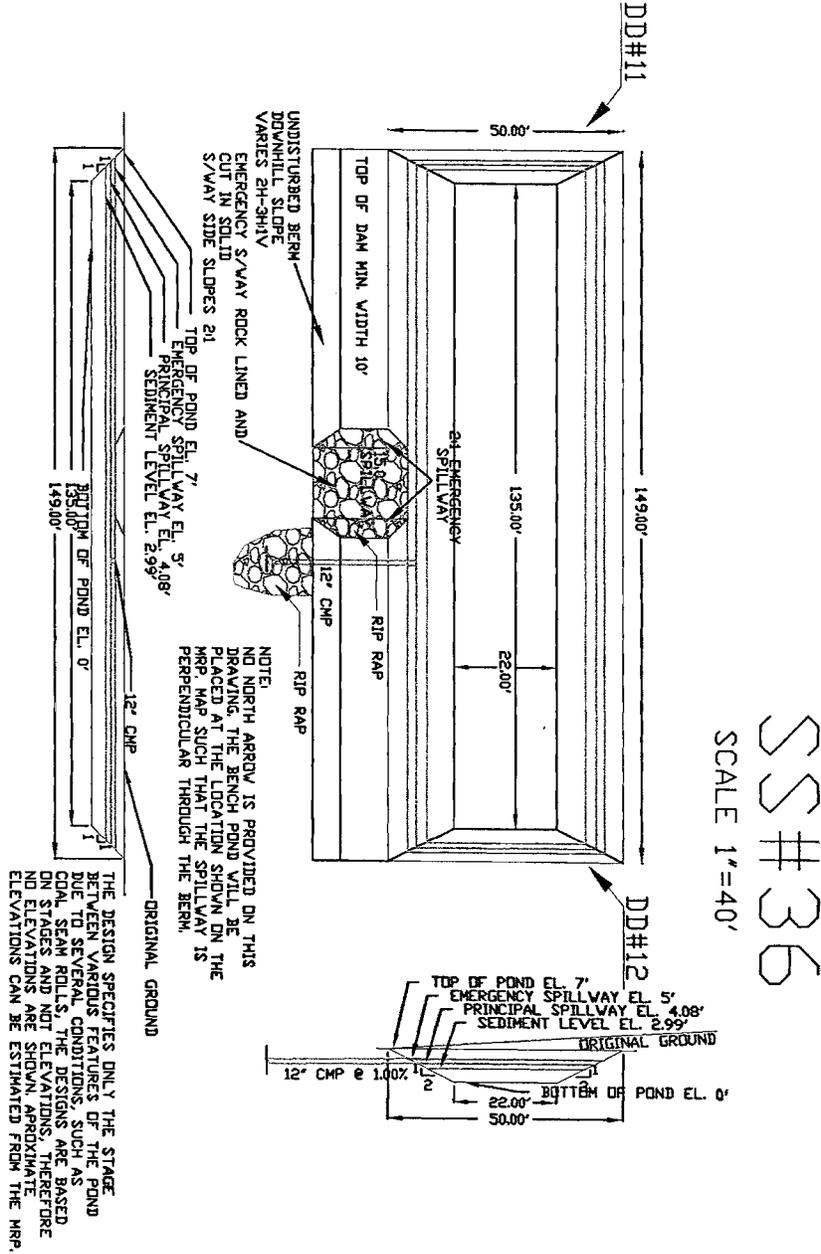
THE DESIGN SPECIFICS ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS COAL SEAM ROLLS, THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS, THEREFORE NO ELEVATIONS ARE SHOWN. APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.K



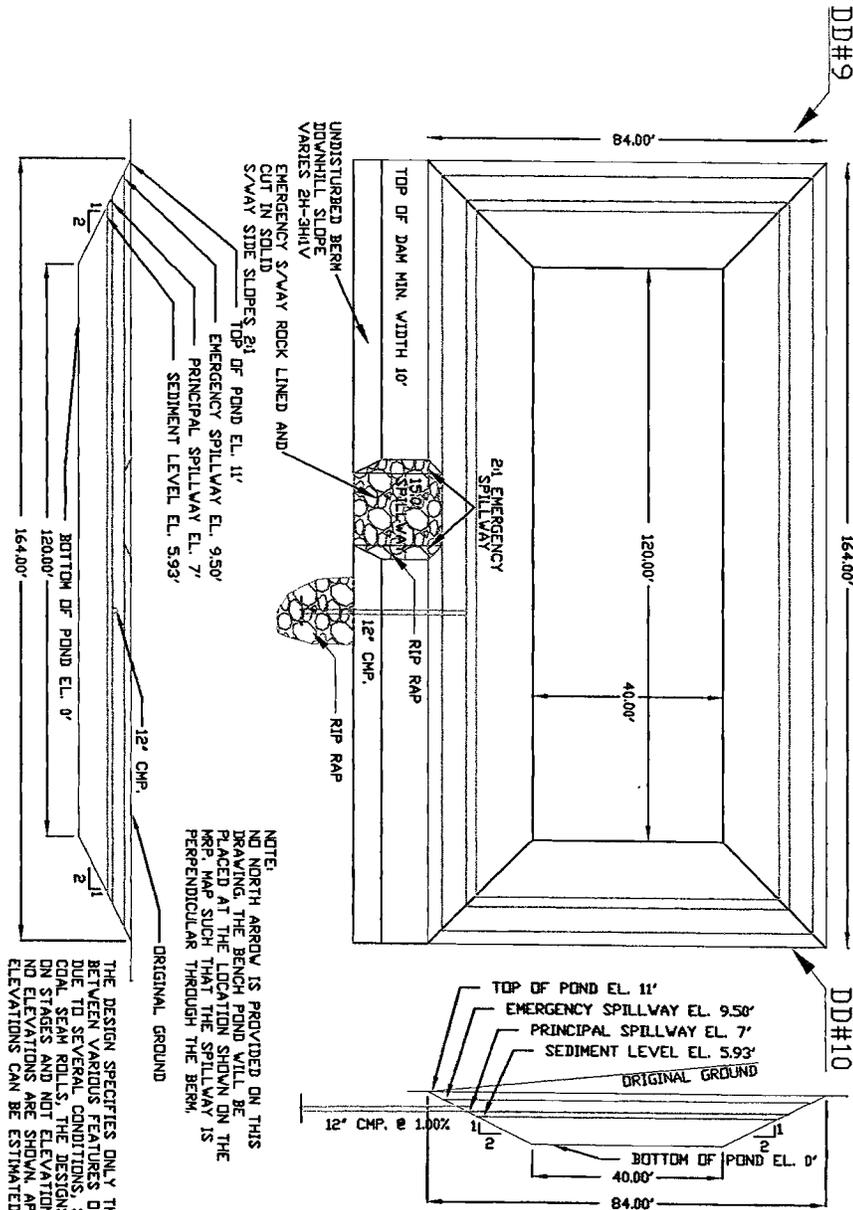
SS#36  
SCALE 1"=40'

I, Don R. Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.L



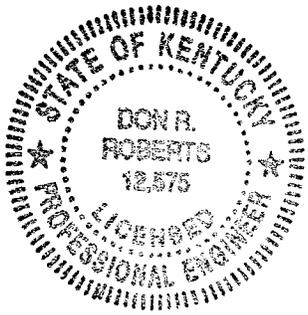
SS#37  
SCALE 1"=40'

NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

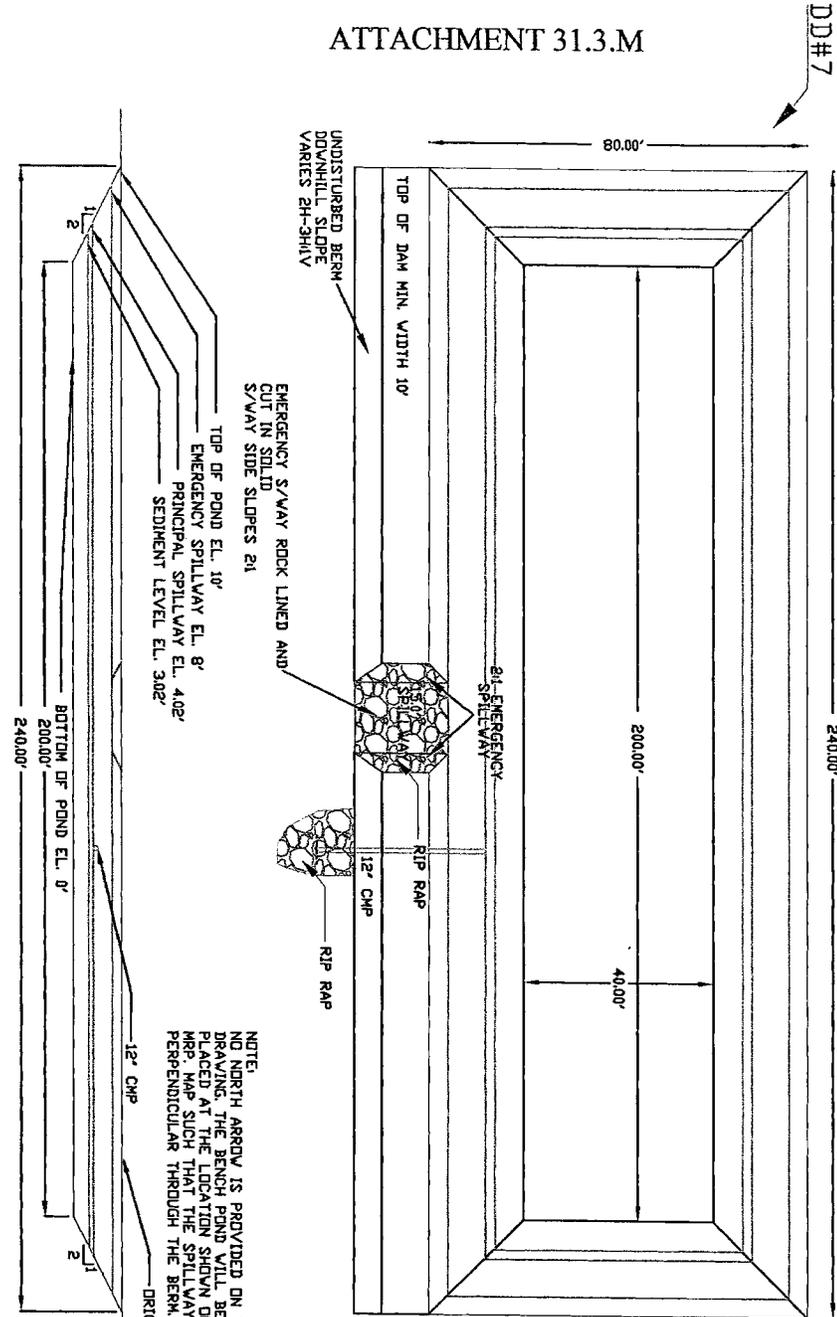
THE DESIGN SPECIFICS ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS SUCH AS COAL SEAM ROLLS. THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS. THEREFORE NO ELEVATIONS ARE SHOWN. APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



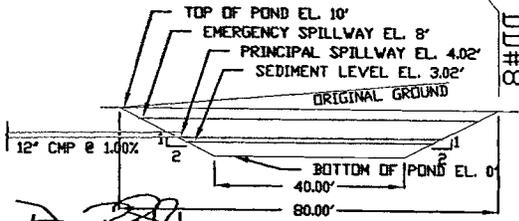
ATTACHMENT 31.3.M



NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

THE DESIGN SPECIFIES ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS COAL SEAM ROLLS. THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS. THEREFORE ELEVATIONS ARE SHOWN APPROXIMATE AND ELEVATIONS CAN BE ESTIMATED FROM THE MRP.

SS#38  
SCALE 1"=40'

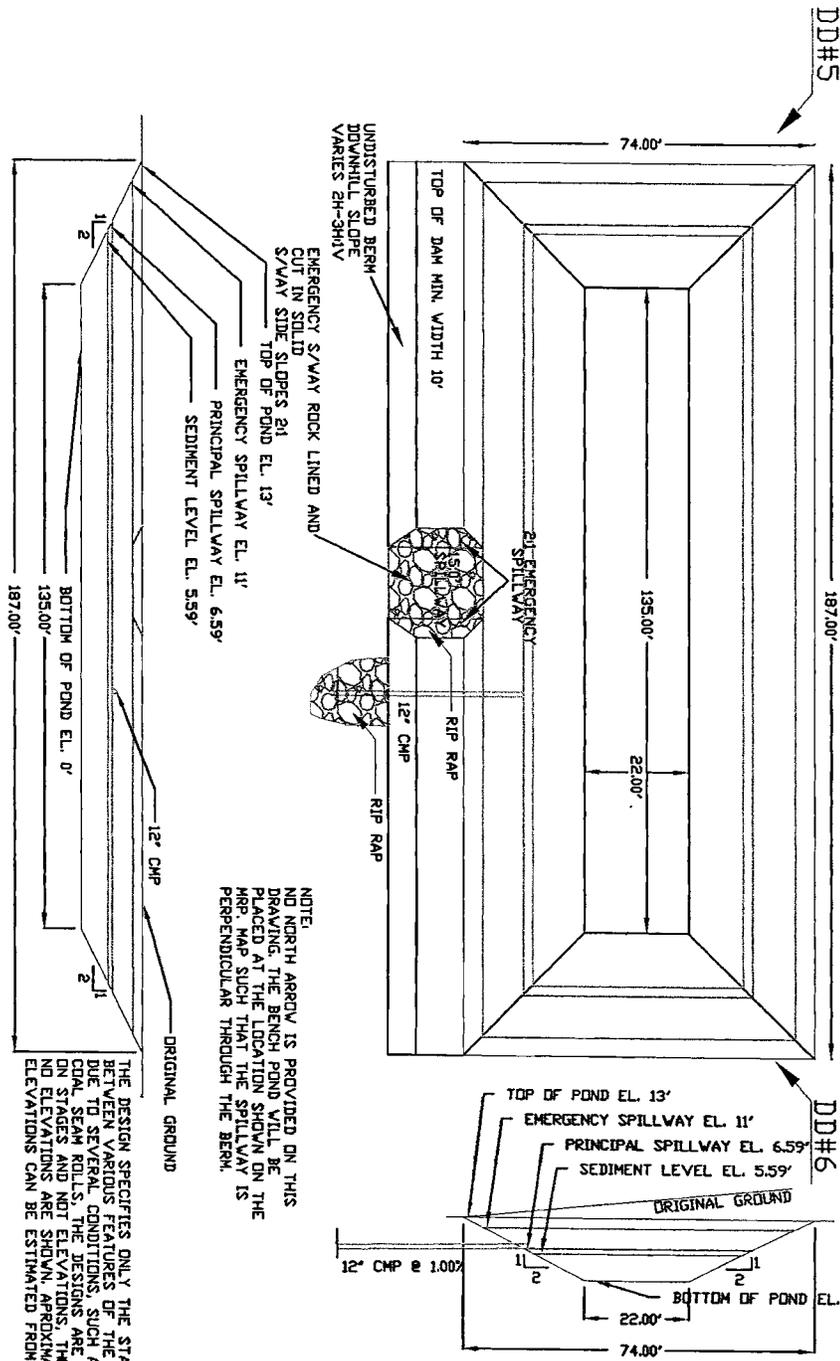


1. Don R. Roberts 12575 08-26-08  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.N



SS#39  
SCALE 1"=40'

NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND SHALL BE PLACED AT THE LOCATION SHOWN ON THE MRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

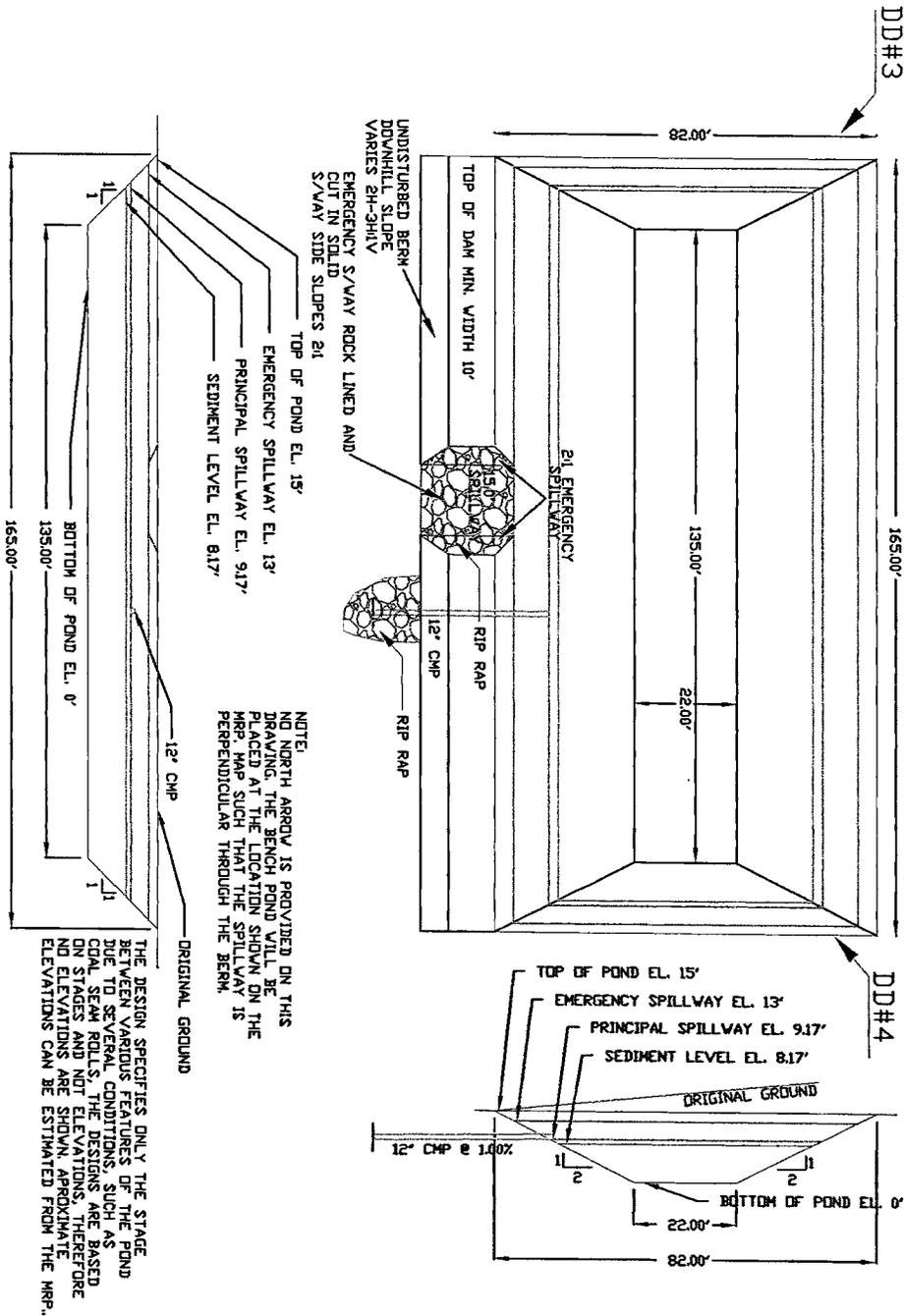
THE DESIGN SPECIFICS ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS CONJ. SEAM ROLLS, THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS, THEREFORE NO ELEVATIONS ARE SHOWN. APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



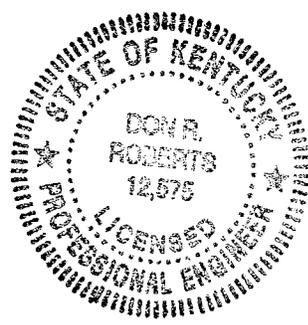
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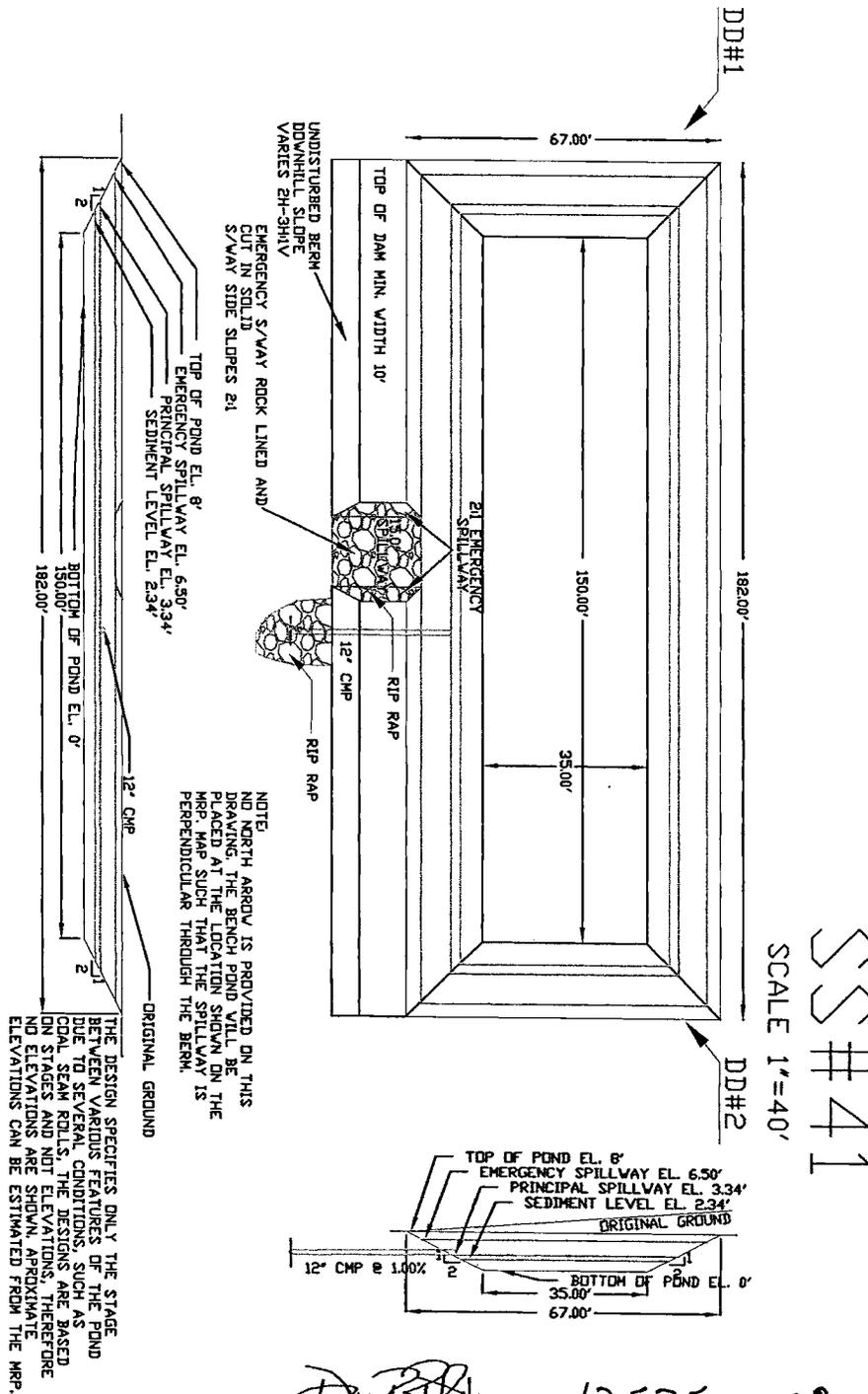
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SCALE 1"=40'

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

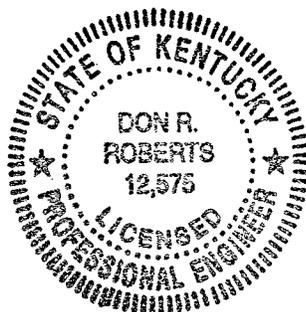


ATTACHMENT 31.3.P

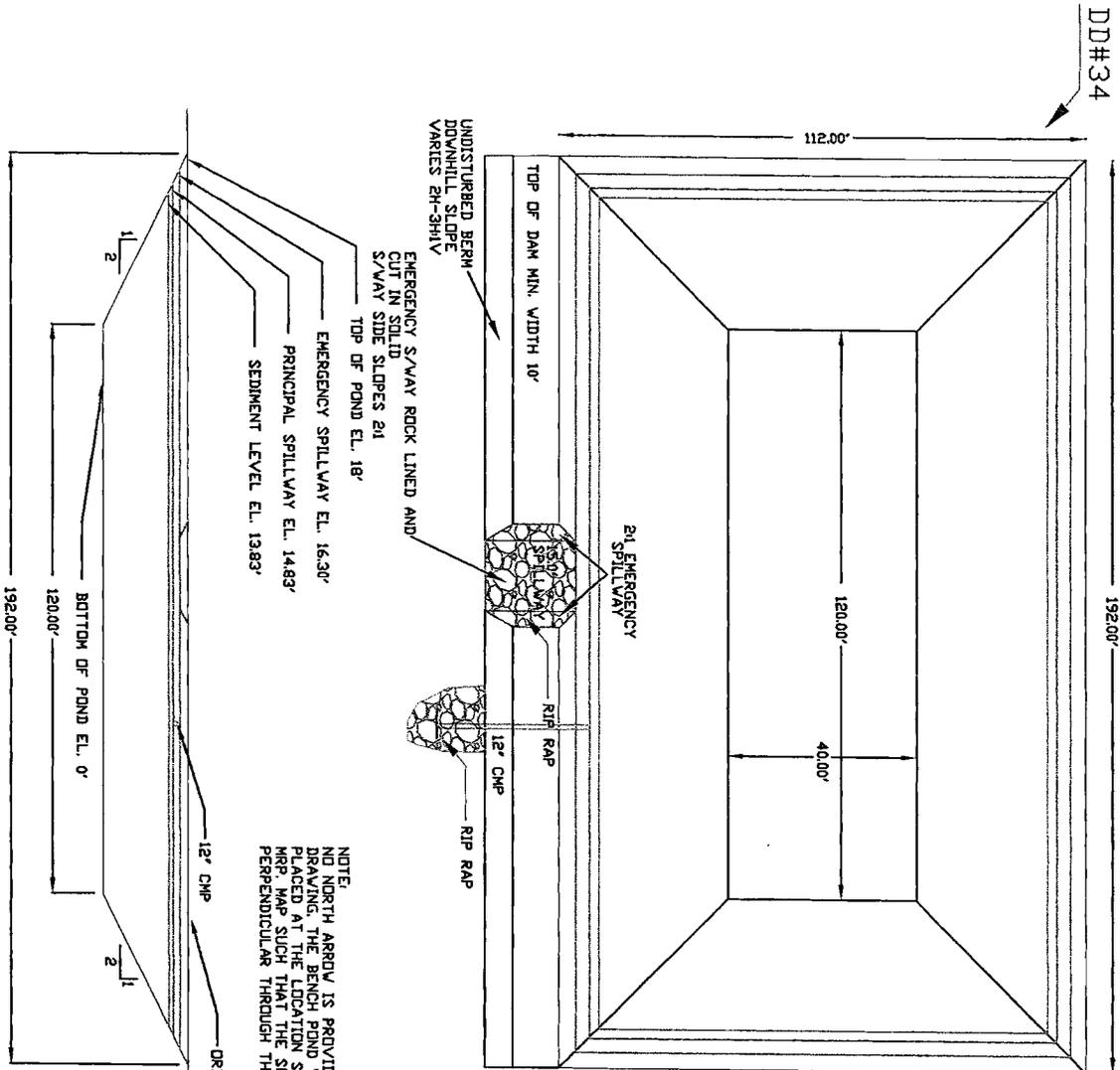


I, Don Roberts, 12575, 08-26-08  
 (signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

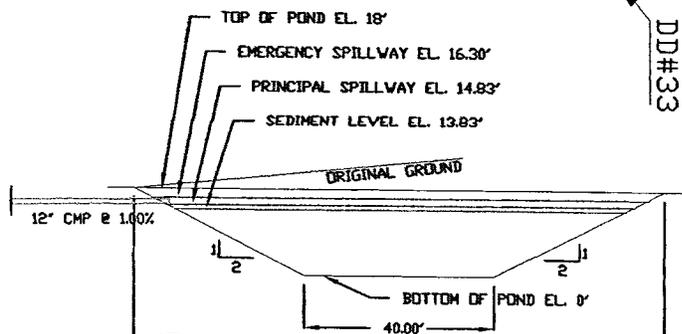


ATTACHMENT 31.3.Q



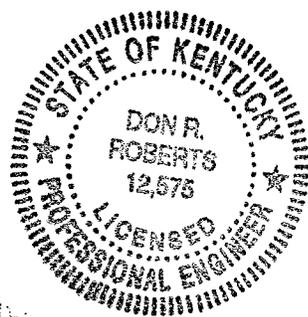
NOTE:  
 NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

THE DESIGN SPECIFIES ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS COAL SEAM PILES. THE DESIGNS ARE BASED ON STAGES AND NOT ELEVATIONS. THEREFORE NO ELEVATIONS ARE SHOWN. APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.



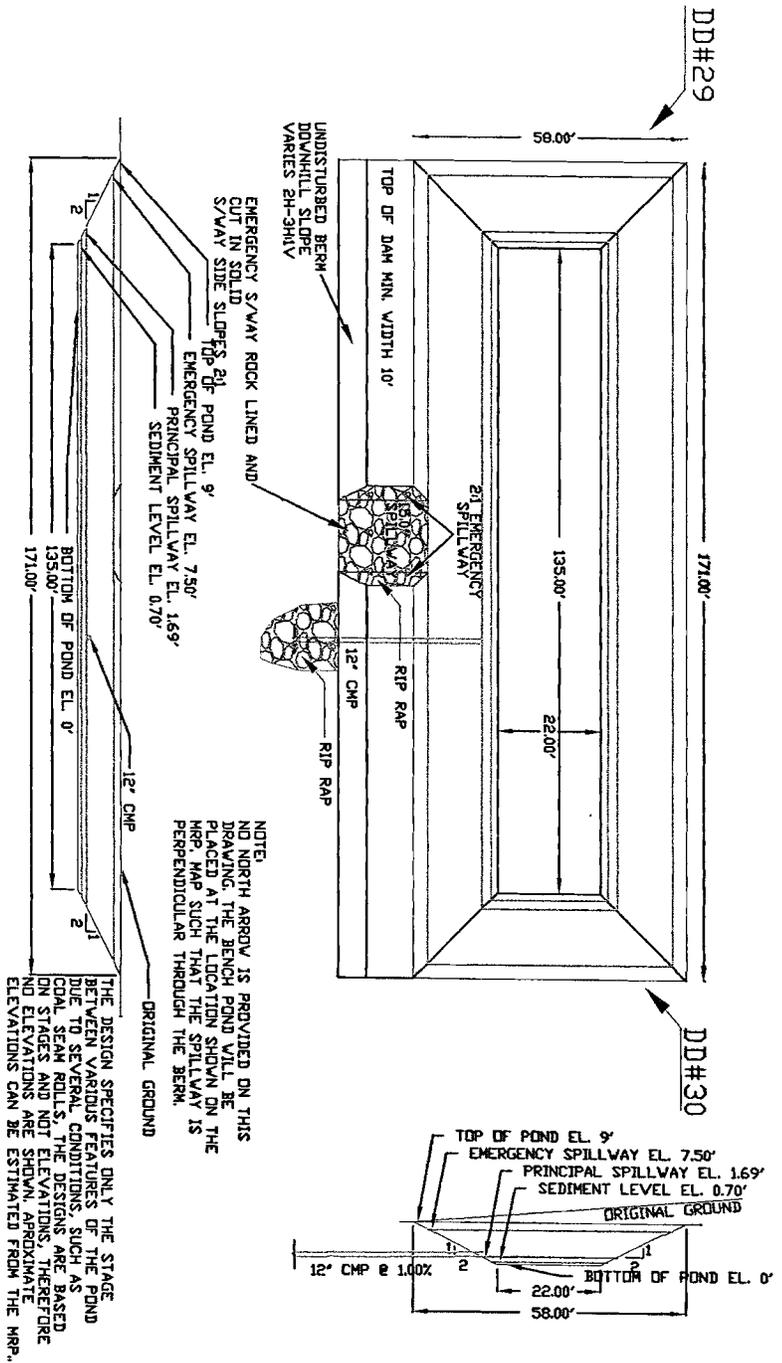
I, Don R. Roberts, 12575, 08-26-08  
 (signature) (registration no.) (date)

hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

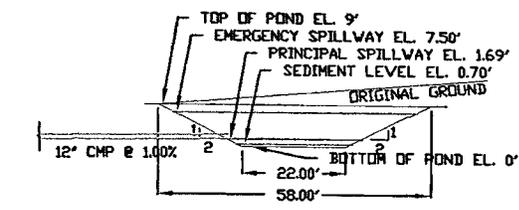


SS#42  
 SCALE 1"=40'

ATTACHMENT 31.3.R



SS#43  
SCALE 1"=40'

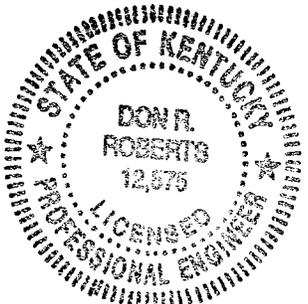


NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE HRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

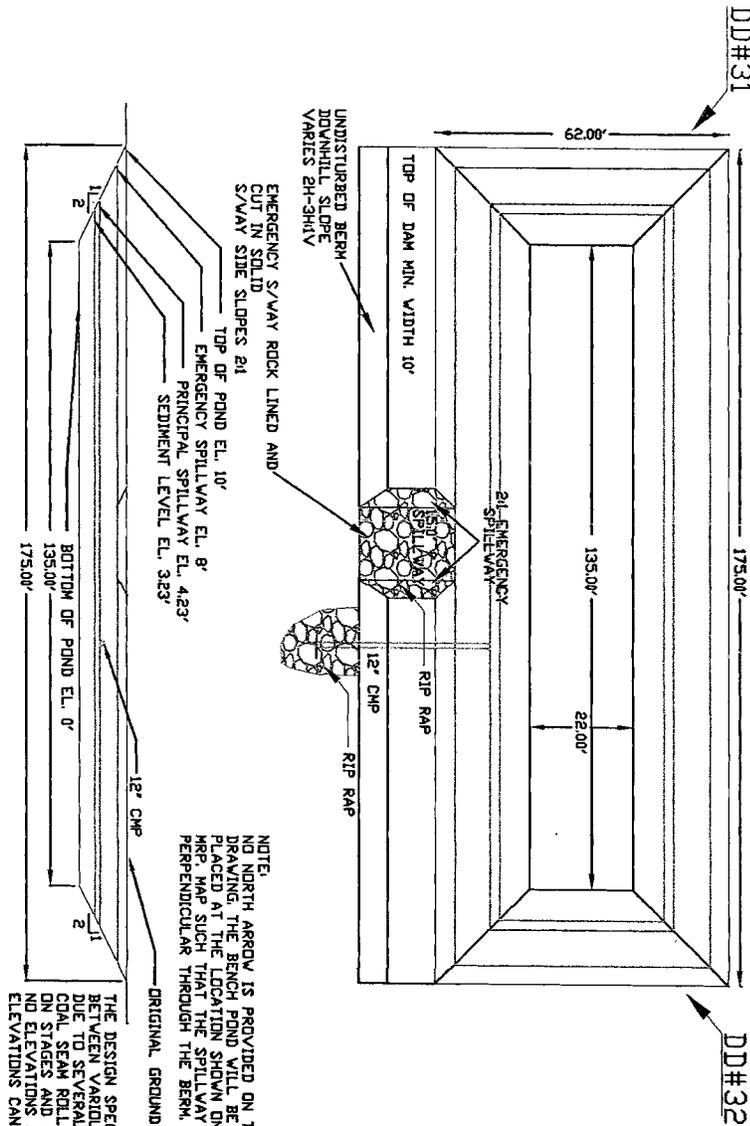
THE DESIGN SPECIFIES ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO VARYING CONDITIONS, SUCH AS COAL SEAM ROLLS. THE DESIGN IS BASED ON STRONG AND NOT SLOTTING THEREFORE NO ELEVATIONS ARE ESTIMATED FROM THE HRP.

I, Don Roberts, 12575, 08-26-08,  
(signature) (registration no.) (date)

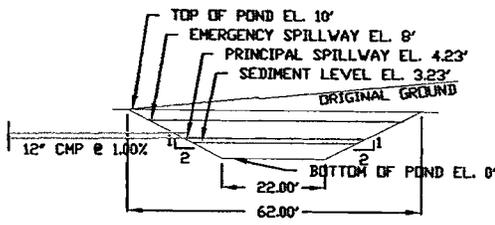
hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



ATTACHMENT 31.3.S



SS#44  
SCALE 1"=40'

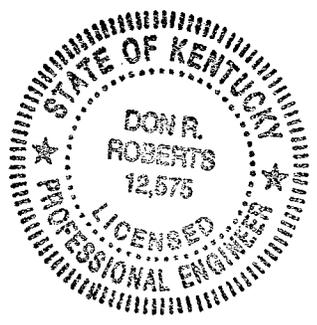


NOTE:  
NO NORTH ARROW IS PROVIDED ON THIS DRAWING. THE BENCH POND WILL BE PLACED AT THE LOCATION SHOWN ON THE MRP. MAP SUCH THAT THE SPILLWAY IS PERPENDICULAR THROUGH THE BERM.

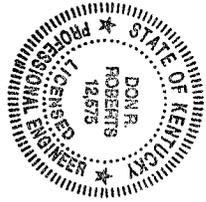
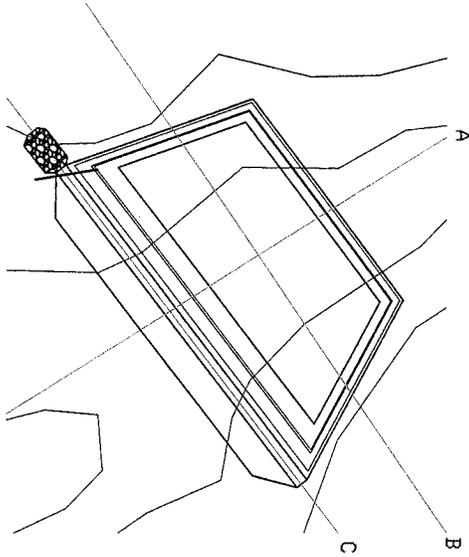
THE DESIGN SPECIFICS ONLY THE STAGE BETWEEN VARIOUS FEATURES OF THE POND DUE TO SEVERAL CONDITIONS, SUCH AS COAL SEAM ROLLS. THE DESIGN ARE BASED ON STAGES AND NOT ELEVATIONS. THEREFORE NO ELEVATIONS ARE SHOWN APPROXIMATE ELEVATIONS CAN BE ESTIMATED FROM THE MRP.

I, Don R. Roberts, 12575, 08-26-08  
(signature) (registration no.) (date)

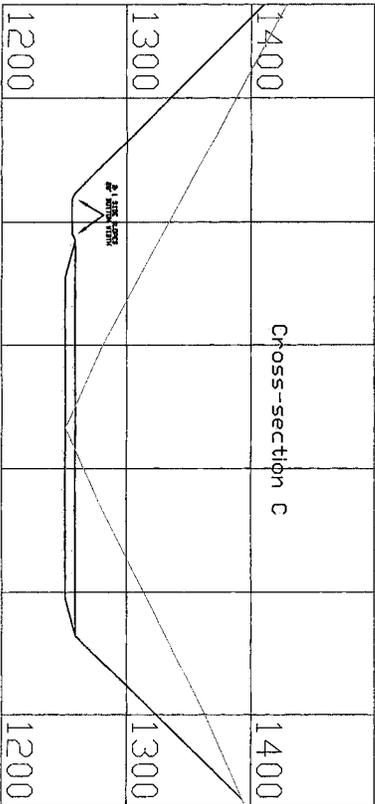
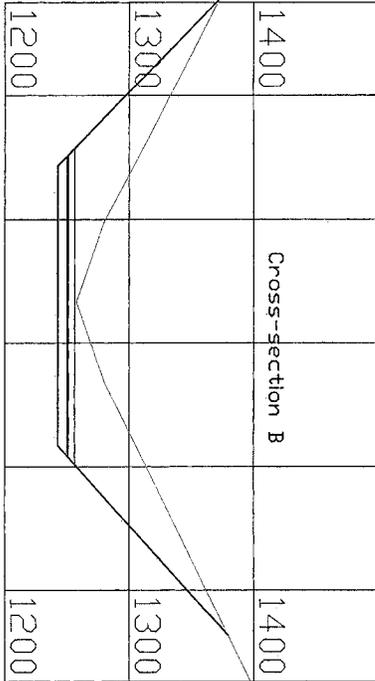
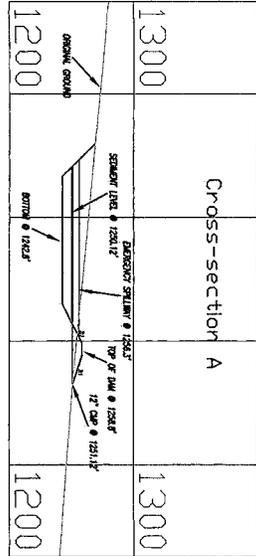
hereby certify, in accordance with 405 KAR 7:040E, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)



SS#H3  
SCALE 1"=100'  
DUG OUT

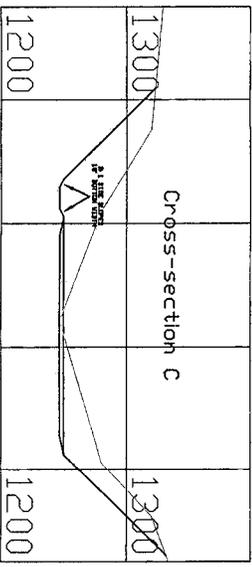
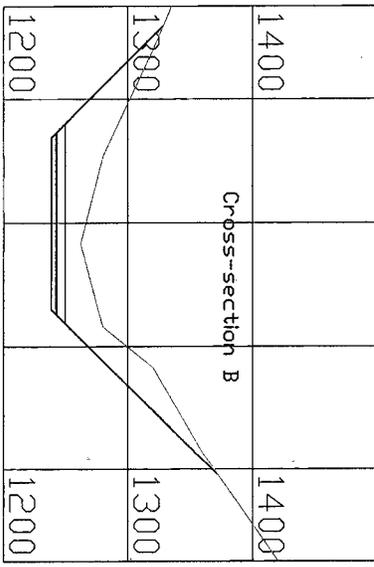
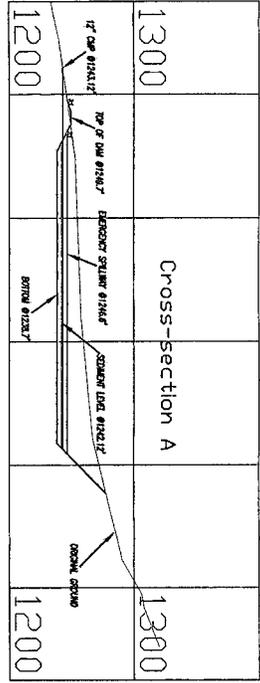
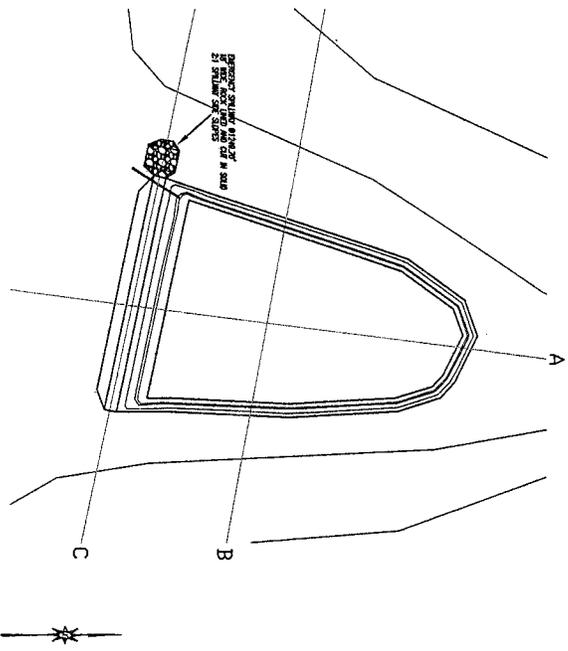


== ORIGINAL GROUND  
== SEDIMENT CLEAN OUT  
== EMERGENCY SWAY ELEV.  
== PRINC. SWAY ELEV.

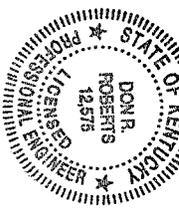


(signature) Don R. Roberts (registration no.) 12575 (date) 7-18-08  
I hereby certify, in accordance with 405 KAR 74.005, Section 10, that this document is correct as determined by accepted engineering practices and includes all the information required of it by KRS Chapter 350 and KAR Title 405. (Affix engineer's seal)

SS#H4  
SCALE 1"=100'  
DUG OUT



— ORIGINAL GROUND  
— SEDIMENT CLEAN OUT  
— PRINC. SURFACE ELEV.



(signature) [Signature] (registration no.) 12575 (date) 7-18-08  
 hereby certify, in accordance with 401 KAR 70.005, Section 10, that  
 this document is correct and is based on information required of it by  
 Chapter 350 and KAR Title 405. (Affix engineer's seal)