History of Construction
Monticello Steam Electric Station
CCR Surface Impoundments

Luminant Generation Company, LLC

MOSES History of Construction
Project No. 90601

August 15, 2016

Burns & McDonnell
Engineering Firm F-845

History of Construction
Monticello Steam Electric Station
CCR Surface Impoundments

prepared for

Luminant Generation Company, LLC
MOSES History of Construction
Rusk County, Texas

Project No. 90601

August 15, 2016

prepared by

Burns & McDonnell Engineering Company, Inc.
Kansas City, Missouri

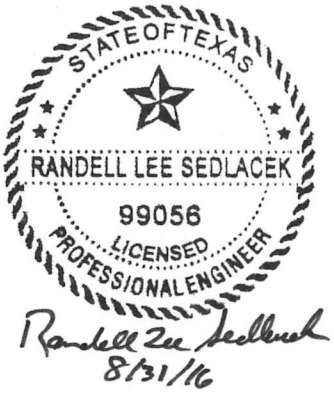
INDEX AND CERTIFICATION

Luminant Generation Company, LLC
History of Construction
Monticello Steam Electric Station
CCR Surface Impoundments
Project No. 90601

Report Index

Certification

I hereby certify, as a Professional Engineer in the state of Texas, that the information in this document was assembled under my direct personal charge. This report is not intended or represented to be suitable for reuse by Luminant Generation Company, LLC or others without specific verification or adaptation by the Engineer.



Randell Lee Sedlacek

Randell Lee Sedlacek, P.E. (Texas License No. 99056)

Date: 8/31/16

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF ABBREVIATIONS

Abbreviation	Term/Phrase/Name
BMcD	Burns & McDonnell
CCR	Coal Combustion Residual
CFR	Code of Federal Regulation
EPA	Environmental Protection Agency
GM	Geomembrane
MOSES	Monticello Steam Electric Station
RCRA	Resource Conservation and Recovery Act

1.0 INTRODUCTION

Luminant Generation Company, LLC (Luminant) owns and operates the Monticello Steam Electric Station (MOSES), located in Titus County, Texas. MOSES is located adjacent to Lake Monticello, which is used as its cooling water source. The bottom ash, fly ash, and scrubber gypsum created during electricity generation are stored, conditioned, and/or disposed of in surface impoundments and landfills on-site, or in nearby Luminant owned and operated facilities.

The EPA published the final Rule to regulate Coal Combustion Residuals (CCR) on April 17, 2015. The final Rule establishes minimum criteria for existing and new CCR Landfills and Surface Impoundments (CCR Units). Luminant is subject to the CCR Rule and as such must compile a History of Construction for existing CCR surface impoundments (to the extent feasible) per 40 CFR §257.73. This document, its appendices and attachments provide the History of Construction for the existing surface impoundments at MOSES.

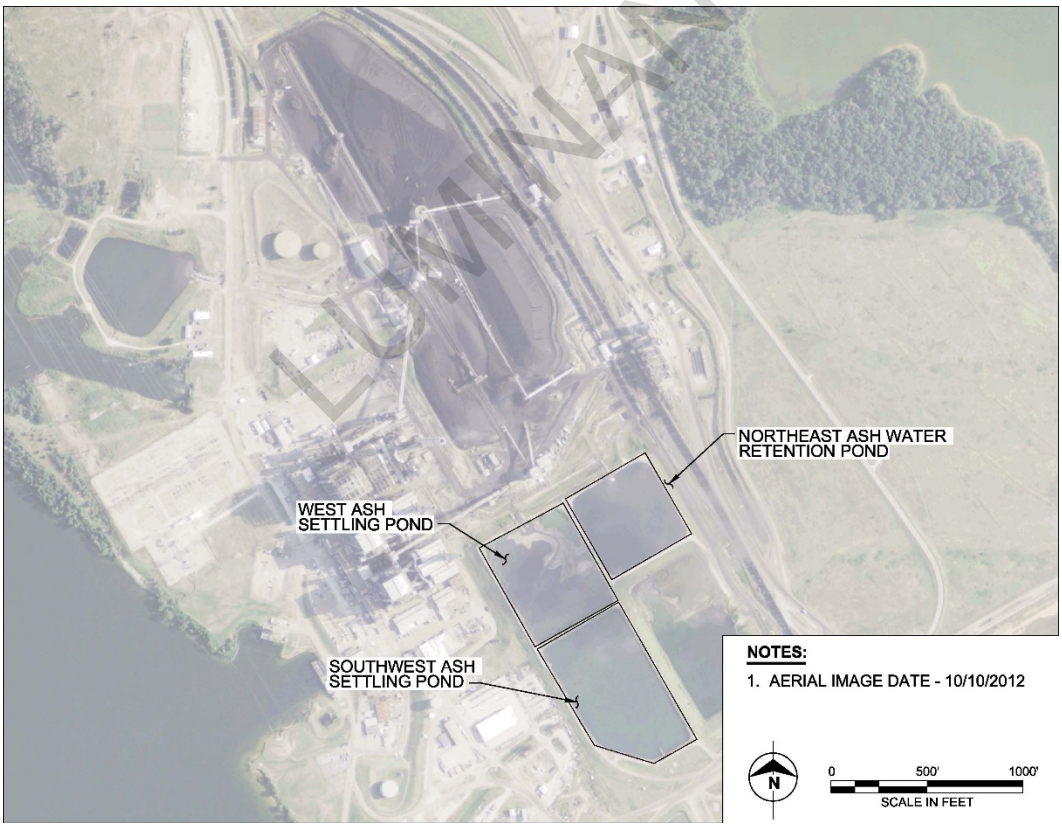


Figure 1 MOSES Site Plan

TABLE 1-1 WEST ASH SETTLING POND HISTORY OF CONSTRUCTION DATA

Section	CCR Rule Description	Included	Information
§257.73 (c)(1) (i)	Name and address of the owner/operator of the CCR unit	Y	Luminant Generation Company, LLC 1601 Bryan Street Dallas, TX 75201
§257.73 (c)(1) (i)	Name of the CCR units	Y	West Ash Settling Pond
§257.73 (c)(1) (i)	Identification number of the CCR unit	Y	TCEQ WMU No. 012
§257.73 (c)(1) (ii)	Location of the CCR unit on most recent United State Geological Survey (USGS) 7½ minute or 15 minute topographical map	Y	See Attachment 1
§257.73 (c)(1) (iii)	Statement of the purpose for which the CCR unit is being used	Y	Bottom ash is sluiced to the NE and West ponds, and the SW pond is used for overflow from the other two. In addition to the sluiced ash, overflow from the dewatering bins is also sent to these ponds
§257.73 (c)(1) (iv)	Name and size of watershed within which the CCR unit is located	Y	HUC12=111403050204, Blundell Creek-Big Cypress Creek Watershed, AREA in ACRES=36291
§257.73 (c)(1) (v)	Description of the physical and engineering properties of the foundation and abutment materials on which the CCR unit is constructed	Y	Foundation soils consisted of clayey sand and sandy clay. Dense, silty or poorly graded sand was noted beneath the sandy clay/clayey layers.
§257.73 (c)(1) (vi)	Statement of the type, size, range, and physical and engineering properties of the materials used in constructing each zone or stage of the CCR unit	Y	Embankment material consists of native onsite soils. Liner consists of 3' of $1x10^{-7}$ clay.
§257.73 (c)(1) (vi)	The method of site preparation and construction of each zone or stage of the CCR unit	N	No records available.
§257.73 (c)(1) (vi)	The approximate dates of construction of each successive stage of construction of the CCR unit	Y	1974, Re-configured and clay lined in 1990.
§257.73 (c)(1) (vii)	Detailed Dimensional Drawings Including the Following:	Y	See Attachment 2
§257.73 (c)(1) (vii)	Plan view and cross sections of the length and width of the CCR unit	Y	See Attachment 2
§257.73 (c)(1) (vii)	Foundation improvements	N	N/A
§257.73 (c)(1) (vii)	Drainage provisions, spillways, diversion ditches, outlets	N	N/A
§257.73 (c)(1) (vii)	Instrumentation locations	N	N/A
§257.73 (c)(1) (vii)	Slope protection	Y	4" Revetment Matt, See Attachment 2
§257.73 (c)(1) (vii)	Normal operating pool surface elevation	Y	EL 384
§257.73 (c)(1) (vii)	Maximum pool surface elevation following peak discharge from the inflow design flood	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (vii)	Expected maximum depth of CCR within the unit	Y	Approximately 23' (384'-361')
§257.73 (c)(1) (vii)	Any identifiable natural or manmade features that could adversely affect operation of the CCR unit due to malfunction or mis-operation	Y	Unused/abandoned pipe penetrations, See Attachment 2
§257.73 (c)(1) (viii)	Description of the type, purpose, and location of existing instrumentation	N	None.
§257.73 (c)(1) (ix)	Area-capacity curves for the CCR unit	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (x)	Description of each spillway and diversion design features and capacities and calculations used in their determination	N	There are no spillways.
§257.73 (c)(1) (xi)	Construction specifications	N	None.
§257.73 (c)(1) (xi)	Provisions for surveillance, maintenance, and repair of the CCR unit	N	Weekly and Annual Inspections per §257.83.
§257.73 (c)(1) (xii)	Any record or knowledge of structural instability of the CCR unit	N	None.

TABLE 1-2 SOUTHWEST ASH SETTLING POND HISTORY OF CONSTRUCTION DATA

Section	CCR Rule Description	Included	Information
§257.73 (c)(1) (i)	Name and address of the owner/operator of the CCR unit	Y	Luminant Generation Company, LLC 1601 Bryan Street Dallas, TX 75201
§257.73 (c)(1) (i)	Name of the CCR units	Y	Southwest Ash Settling Pond
§257.73 (c)(1) (i)	Identification number of the CCR unit	Y	TCEQ WMU No. 022
§257.73 (c)(1) (ii)	Location of the CCR unit on most recent United State Geological Survey (USGS) 7½ minute or 15 minute topographical map	Y	See Attachment 1
§257.73 (c)(1) (iii)	Statement of the purpose for which the CCR unit is being used	Y	Bottom ash is sluiced to the NE and West ponds, and the SW pond is used for overflow from the other two. In addition to the sluiced ash, overflow from the dewatering bins is also sent to these ponds
§257.73 (c)(1) (iv)	Name and size of watershed within which the CCR unit is located	Y	HUC12=111403050204, Blundell Creek-Big Cypress Creek Watershed, AREA in ACRES=36291
§257.73 (c)(1) (v)	Description of the physical and engineering properties of the foundation and abutment materials on which the CCR unit is constructed	Y	Foundation soils consisted of clayey sand and sandy clay. Dense, silty or poorly graded sand was noted beneath the sandy clay/clayey layers.
§257.73 (c)(1) (vi)	Statement of the type, size, range, and physical and engineering properties of the materials used in constructing each zone or stage of the CCR unit	Y	Embankment material consists of native onsite soils. Liner consists of 3' of $1x10^{-7}$ clay.
§257.73 (c)(1) (vi)	The method of site preparation and construction of each zone or stage of the CCR unit	N	No records available.
§257.73 (c)(1) (vi)	The approximate dates of construction of each successive stage of construction of the CCR unit	Y	1974, Re-configured and clay lined in 1990.
§257.73 (c)(1) (vii)	Detailed Dimensional Drawings Including the Following:	Y	See Attachment 2
§257.73 (c)(1) (vii)	Plan view and cross sections of the length and width of the CCR unit	Y	See Attachment 2
§257.73 (c)(1) (vii)	Foundation improvements	N	N/A
§257.73 (c)(1) (vii)	Drainage provisions, spillways, diversion ditches, outlets	N	N/A
§257.73 (c)(1) (vii)	Instrumentation locations	N	N/A
§257.73 (c)(1) (vii)	Slope protection	Y	4" Revetment Matt, See Attachment 2
§257.73 (c)(1) (vii)	Normal operating pool surface elevation	Y	EL 384
§257.73 (c)(1) (vii)	Maximum pool surface elevation following peak discharge from the inflow design flood	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (vii)	Expected maximum depth of CCR within the unit	Y	Approximately 23' (384'-361')
§257.73 (c)(1) (vii)	Any identifiable natural or manmade features that could adversely affect operation of the CCR unit due to malfunction or mis-operation	Y	Unused/abandoned pipe penetrations, See Attachment 2
§257.73 (c)(1) (viii)	Description of the type, purpose, and location of existing instrumentation	N	None.
§257.73 (c)(1) (ix)	Area-capacity curves for the CCR unit	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (x)	Description of each spillway and diversion design features and capacities and calculations used in their determination	N	There are no spillways.
§257.73 (c)(1) (xi)	Construction specifications	N	None.
§257.73 (c)(1) (xi)	Provisions for surveillance, maintenance, and repair of the CCR unit	N	Weekly and Annual Inspections per §257.83.
§257.73 (c)(1) (xii)	Any record or knowledge of structural instability of the CCR unit	N	None.

TABLE 1-3 NORTHEAST ASH WATER RETENTION POND HISTORY OF CONSTRUCTION DATA

Section	CCR Rule Description	Included	Information
§257.73 (c)(1) (i)	Name and address of the owner/operator of the CCR unit	Y	Luminant Generation Company, LLC 1601 Bryan Street Dallas, TX 75201
§257.73 (c)(1) (i)	Name of the CCR units	Y	Northeast Ash Water Retention Pond
§257.73 (c)(1) (i)	Identification number of the CCR unit	Y	TCEQ WMU No. 011
§257.73 (c)(1) (ii)	Location of the CCR unit on most recent United State Geological Survey (USGS) 7½ minute or 15 minute topographical map	Y	See Attachment 1
§257.73 (c)(1) (iii)	Statement of the purpose for which the CCR unit is being used	Y	Bottom ash is sluiced to the NE and West ponds, and the SW pond is used for overflow from the other two. In addition to the sluiced ash, overflow from the dewatering bins is also sent to these ponds
§257.73 (c)(1) (iv)	Name and size of watershed within which the CCR unit is located	Y	HUC12=111403050204, Blundell Creek-Big Cypress Creek Watershed, AREA in ACRES=36291
§257.73 (c)(1) (v)	Description of the physical and engineering properties of the foundation and abutment materials on which the CCR unit is constructed	Y	Foundation soils consisted of clayey sand and sandy clay. Dense, silty or poorly graded sand was noted beneath the sandy clay/clayey layers.
§257.73 (c)(1) (vi)	Statement of the type, size, range, and physical and engineering properties of the materials used in constructing each zone or stage of the CCR unit	Y	Embankment material consists of native onsite soils. Liner consists of 3' of $1x10^{-7}$ clay.
§257.73 (c)(1) (vi)	The method of site preparation and construction of each zone or stage of the CCR unit	N	No records available.
§257.73 (c)(1) (vi)	The approximate dates of construction of each successive stage of construction of the CCR unit	Y	1974, Re-configured and clay lined in 1990.
§257.73 (c)(1) (vii)	Detailed Dimensional Drawings Including the Following:	Y	See Attachment 2
§257.73 (c)(1) (vii)	Plan view and cross sections of the length and width of the CCR unit	Y	See Attachment 2
§257.73 (c)(1) (vii)	Foundation improvements	N	N/A
§257.73 (c)(1) (vii)	Drainage provisions, spillways, diversion ditches, outlets	N	N/A
§257.73 (c)(1) (vii)	Instrumentation locations	N	N/A
§257.73 (c)(1) (vii)	Slope protection	Y	4" Revetment Matt, See Attachment 2
§257.73 (c)(1) (vii)	Normal operating pool surface elevation	Y	EL 384
§257.73 (c)(1) (vii)	Maximum pool surface elevation following peak discharge from the inflow design flood	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (vii)	Expected maximum depth of CCR within the unit	Y	Approximately 23' (384'-361')
§257.73 (c)(1) (vii)	Any identifiable natural or manmade features that could adversely affect operation of the CCR unit due to malfunction or mis-operation	Y	Unused/abandoned pipe penetrations, See Attachment 2
§257.73 (c)(1) (viii)	Description of the type, purpose, and location of existing instrumentation	N	None.
§257.73 (c)(1) (ix)	Area-capacity curves for the CCR unit	N	This information is being compiled by another consultant and will be included in the Inflow Design Flood Control System Plan published on Luminant's CCR website.
§257.73 (c)(1) (x)	Description of each spillway and diversion design features and capacities and calculations used in their determination	N	There are no spillways.
§257.73 (c)(1) (xi)	Construction specifications	N	None.
§257.73 (c)(1) (xi)	Provisions for surveillance, maintenance, and repair of the CCR unit	N	Weekly and Annual Inspections per §257.83.
§257.73 (c)(1) (xii)	Any record or knowledge of structural instability of the CCR unit	N	None.

ATTACHMENT 1 - LOCATION OF UNITS ON USGS MAP

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

MONTICELLO QUADRANGLE
TEXAS
7.5-MINUTE SERIES

WEST ASH SETTLING POND

NORTHEAST ASH WATER RETENTION POND

SOUTHWEST ASH SETTLING POND

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 15S
10 000-foot ticks: Texas Coordinate System of 1983 (north central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2004
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
US
Grid Zone Designation
15S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1	2	3
4		5
6	7	8

1 Mount Vernon
2 Winfield
3 Mount Pleasant
4 New Hope
5 Harvard
6 Newsome
7 Leesburg
8 Pittsburg

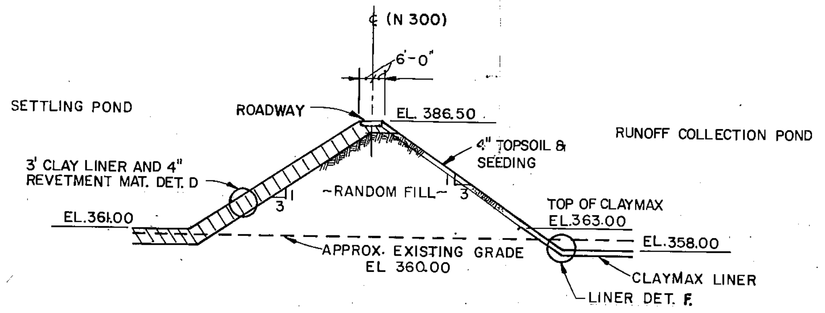
ADJOINING QUADRANGLES

MONTICELLO, TX
2016

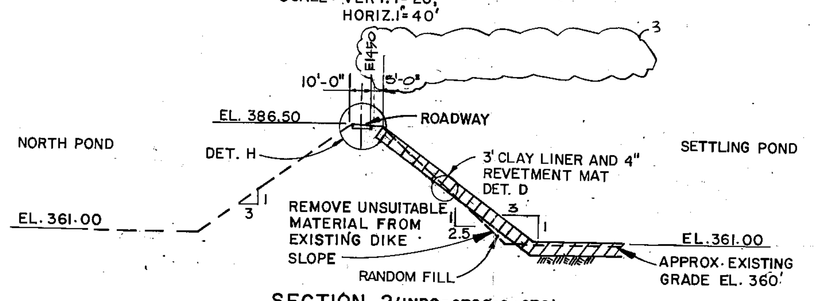
NSN. 7643016397288
NGA REF NO. USGSX24K29969

ATTACHMENT 2 - DETAILED DIMENSIONAL DRAWINGS

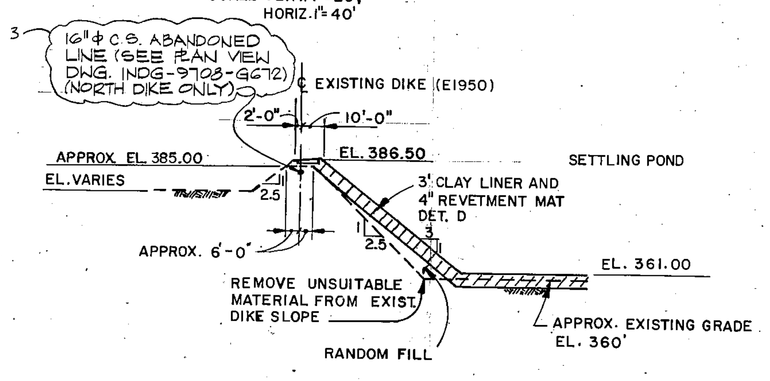
INDG-9788
G-672
N
NORTHEAST ASH WATER RETENTION POND
WEST ASH SETTLING POND
SOUTHWEST ASH SETTLING POND
SETTLING POND
RUNOFF COLLECTION POND
BOTTOM EL. 358.00
NORTH POND
SOUTH POND
ASH POND "B"
BOTTOM EL 361.00
DISCHARGE STRUCTURE
E-W BASELINE
EXIST 2.5:1 NEW 3:1
T/DIKE EL 386.50
TOP OF DIKE EL 373.00
℄ INTAKE STRUCTURE (SEE PARTIAL PLAN THIS DWG)
℄ 60" R.C. CULVERT (SEE DWG. 129-1423-302, SH.03)
6" ℄ PERFORATED PVC PIPE (TEMPORARY SUB-DRAIN)
TOP OF DIKE TO MATCH EXIST. GRADE
EXISTING ASH PIPING SUPPORT STRUCTURE
FOR PIPES SEE 9788-G-197
℄ BETWEEN BOILERS N1000
℄ ROAD & FLY ASH BIN SEE 9788-G-673
ASH WATER SURGE TANKS SEE 9788-G-676
ASH PIPE SUPPORTS & CONC APRON
TEMPORARY ROCK DRAIN
℄ 24" ℄ R.C. ASH WATER RETURN PIPES
℄ 30" ℄ R.C. PIPE ABANDONED IN PLACE
LAYING DIRECTION
WORK BY SPEC. 129-1423-C8000
PLAN
1"=100'
SECTION G
SCALE: NONE
EXISTING ASH PIPING SUPPORT STRUCTURE
4" CONCRETE SLAB w/ #4 @ 12" E.W. 56' LONG (PER SPEC. 129-1423-C8001)
ADDITIONAL 4" REVETMENT MAT 60' WIDE ACROSS FRONT OF PIPE STRUCTURE (PER SPEC. 129-1423-C8001)
4" REVETMENT MAT (PER SPEC. 129-1423-C8001)
PROVIDE 2' WIDE 4" REVETMENT MAT ALONG EDGES OF CONCRETE SLAB FOR SIDE FORMS
LEGEND
EXISTING CONTOURS
FINISH CONTOURS
℄ ROADWAY
℄ S 220
T/DIKE EL 373.00
CONCRETE WINGWALL
SLOPE
INTAKE STRUCTURE (SEE DWG. 129-1423, SH. 01)
TOE OF DIKE
PARTIAL PLAN AT INTAKE STRUCTURE
SCALE: 1"=10'
NOTES
CURRENT ACI STANDARDS SHALL GOVERN FOR ALL DESIGN AND CONSTRUCTION UNLESS OTHERWISE NOTED.
ALL ANCHOR BOLTS, DRAIN PIPES, PIPE SLEEVES, ELECTRICAL CONDUITS AND EMBEDDED PARTS SHALL BE IN POSITION BEFORE CONCRETE IS PLACED.
PLACING DIMENSIONS ARE GIVEN TO CENTER OF BARS UNLESS NOTED.
ALL SPLICES IN REINFORCEMENT SHALL COMPLY WITH THE REQUIREMENTS OF CURRENT ACI STANDARDS, SECTION 805, BUT IN NO CASE SHALL LAP BE LESS THAN 24 BAR DIAMETERS. ALL REBAR ASTM A615 GR.60.
ALL BARS SHALL HAVE 2" MINIMUM CONCRETE COVER UNLESS OTHERWISE NOTED.
SHIFT OR BEND BARS TO CLEAR ANCHOR BOLTS, DRAINS, PIPE SLEEVES AND EMBEDDED PARTS.
REFERENCE DRAWINGS:
RUNOFF COLLECTION POND INTAKE STRUCTURE PLAN, SECTIONS & DETAILS 129-1423-302 SH.01
ASH POND SECTIONS & DETAILS 129-1423-302 SH.02
RUNOFF COLLECTION POND DISCHARGE STRUCTURE 129-1423-302 SH.03
POND PUMP STRUCTURE GROUNDING 129-1423-E501
"A" LINES FROM "A" AREA RETENTION TO ASH POND "B" 129-1098-401-00
DALLAS POWER & LIGHT COMPANY
TEXAS ELECTRIC SERVICE COMPANY
TEXAS POWER & LIGHT COMPANY
MONTICELLO STEAM ELECTRIC STATION
1974-1975 1150 MW INSTALLATION
ASH DISPOSAL SYSTEM
GEN PLAN & MISC DET'S
EBASCO SERVICES INCORPORATED NEW YORK
SCALE AS NOTED
APPROVED
DATE 11/13/72
DIV. C-H
DR. TURNER
CH. SCHUB
INDG-9788
G-672
REV. 8
8 5-18-92 AS BUILT PID 129-1423, T#10415
7 6-27-90 FOR CONSTRUCTION SPEC. 129-1423-C8000
7 6-20-90 REVISED
6 5-9-90 FOR BID/CONSTRUCTION
NO. DATE REVISION BY CH. APPROVED
LUMINANT



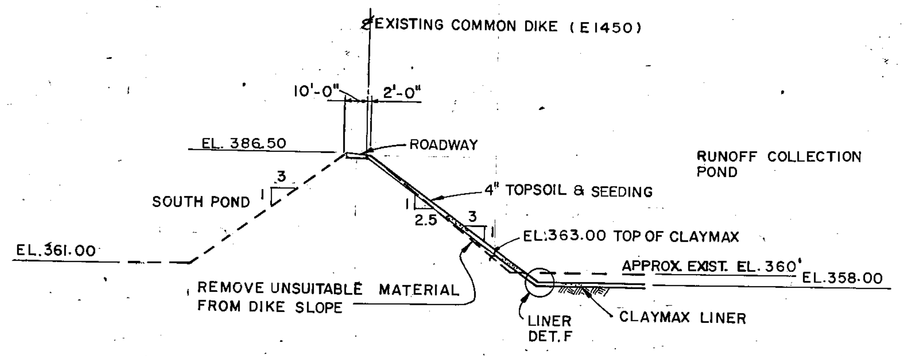
SECTION 1 (INDG-9788-G-672)
SCALE: VERT. 1"= 20', HORIZ. 1"= 40'



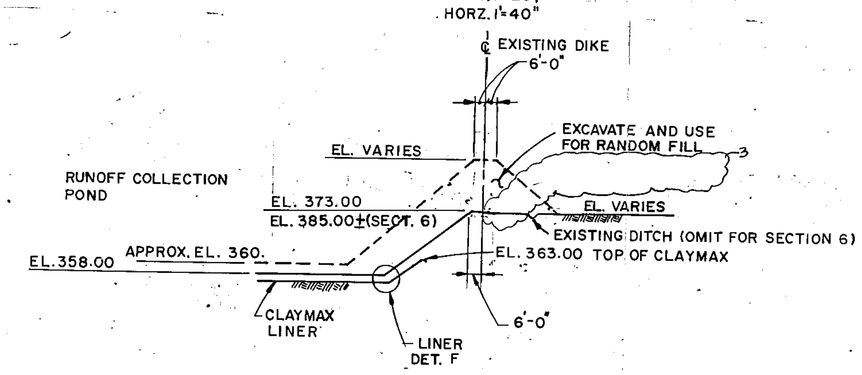
SECTION 2 (INDG-9788-G-672)
SCALE: VERT. 1"=20', HORIZ. 1"= 40'



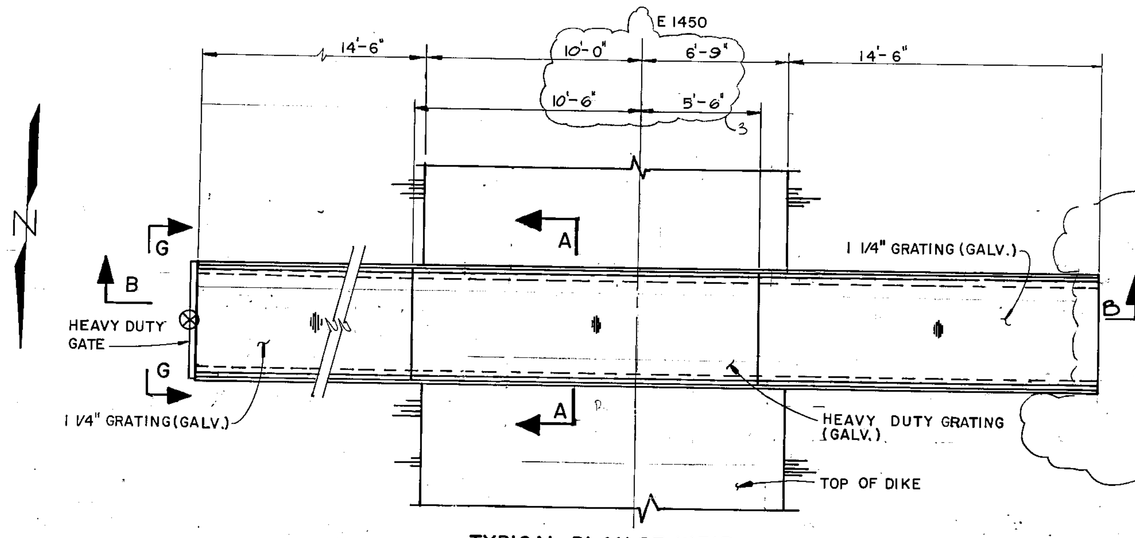
SECTION 3 (INDG-9788-G-672)
SCALE: VERT. 1"=20', HORIZ. 1"= 40'



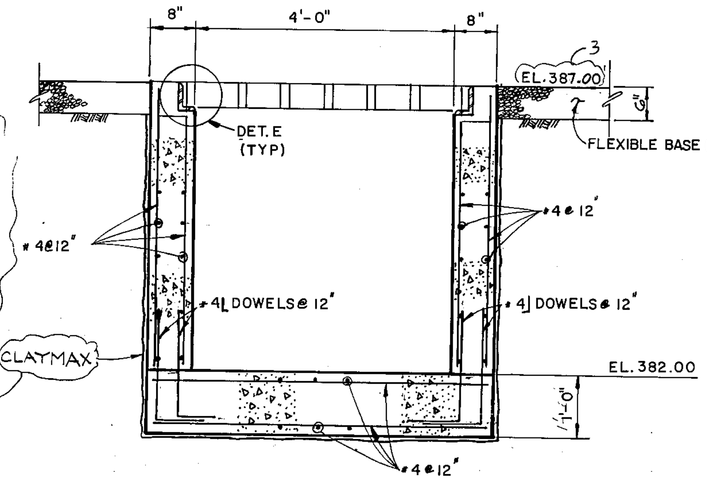
SECTION 4 (INDG-9788-G-672)
SCALE: VERT. 1"=20', HORZ. 1"=40'



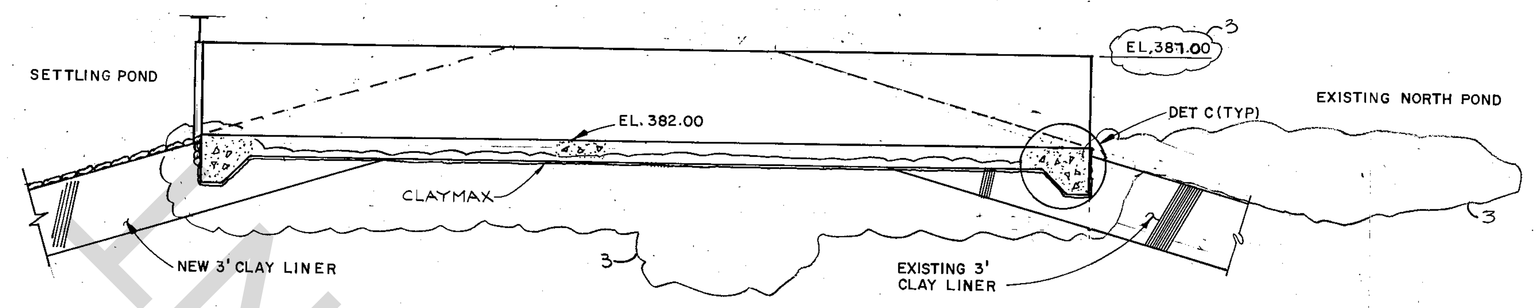
SECTION 5 (AS SHOWN) (INDG-9788-G-672)
SECTION 6 (AS SHOWN & NOTED) (INDG-9788-G-672)
SCALE: VERT. 1"=20', HORIZ. 1"=40'



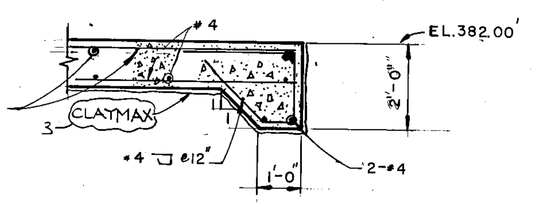
TYPICAL PLAN OF WEIR (2-REQUIRED) (INDG-9788-G-672)
SCALE: 1/4"=1'-0"



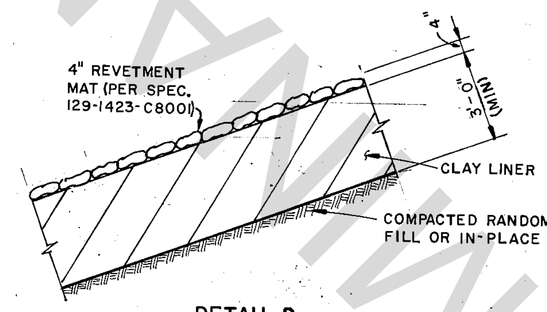
SECTION A
SCALE: 3/4"= 1'-0"



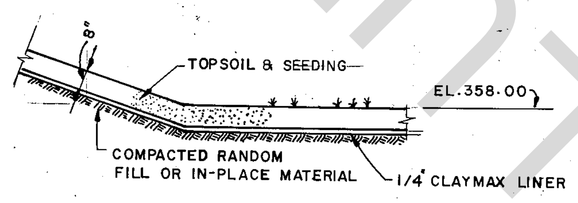
SECTION B
SCALE: 1/4"=1'-0"



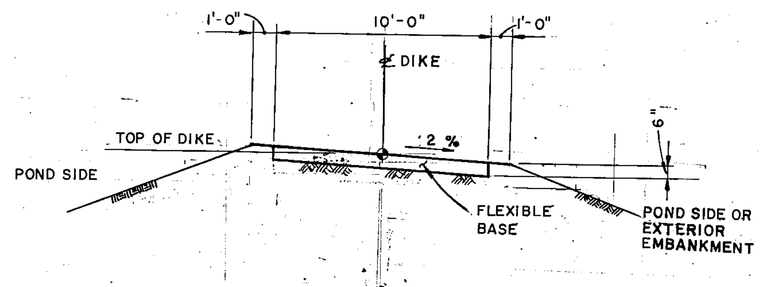
DETAIL C
SCALE: 1/2"= 1'-0"



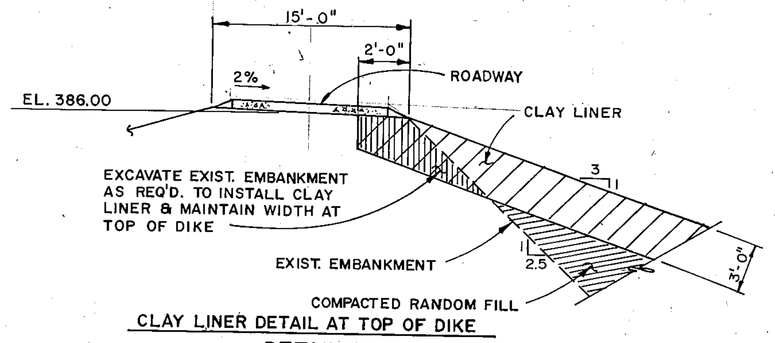
DETAIL D
SCALE: 3/8"= 1'-0"



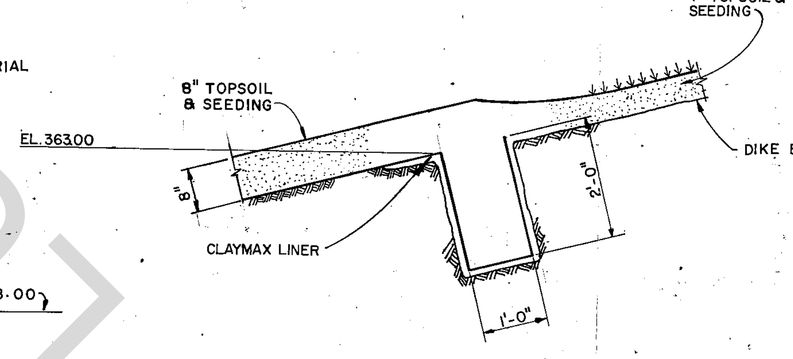
DETAIL F
SCALE: 3/8"= 1'-0"



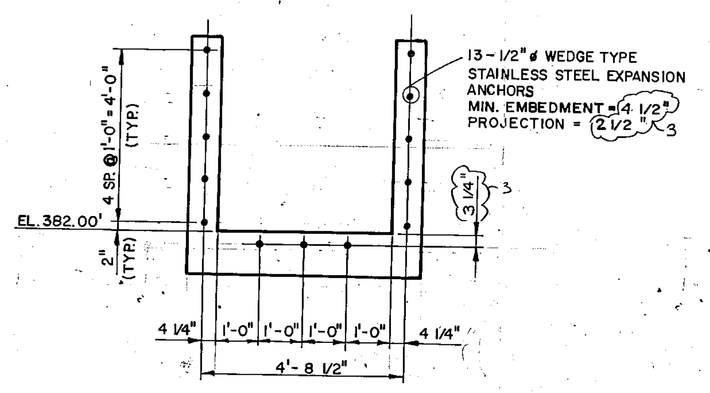
TYPICAL ROADWAY SECTION AT TOP OF DIKE
SCALE: 1/4"= 1'-0"



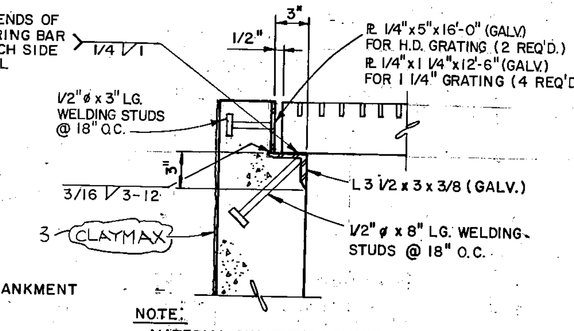
CLAY LINER DETAIL AT TOP OF DIKE
DETAIL H
NO SCALE



CLAYMAX ANCHOR TRENCH DETAIL
SCALE: 3/4"= 1'-0"

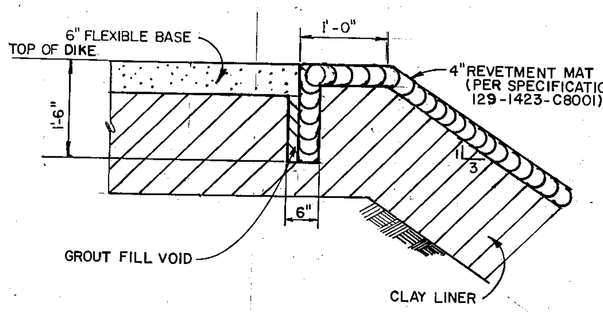


SECTION G
SCALE: 1/2"= 1'-0"



NOTE:
MATERIAL QUANTITIES SHOWN ARE FOR ONE WEIR; TWO ARE REQUIRED.

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



REVETMENT MAT TOE-IN TRENCH DETAIL
SCALE: 3/4"=1'-0"

NOTES

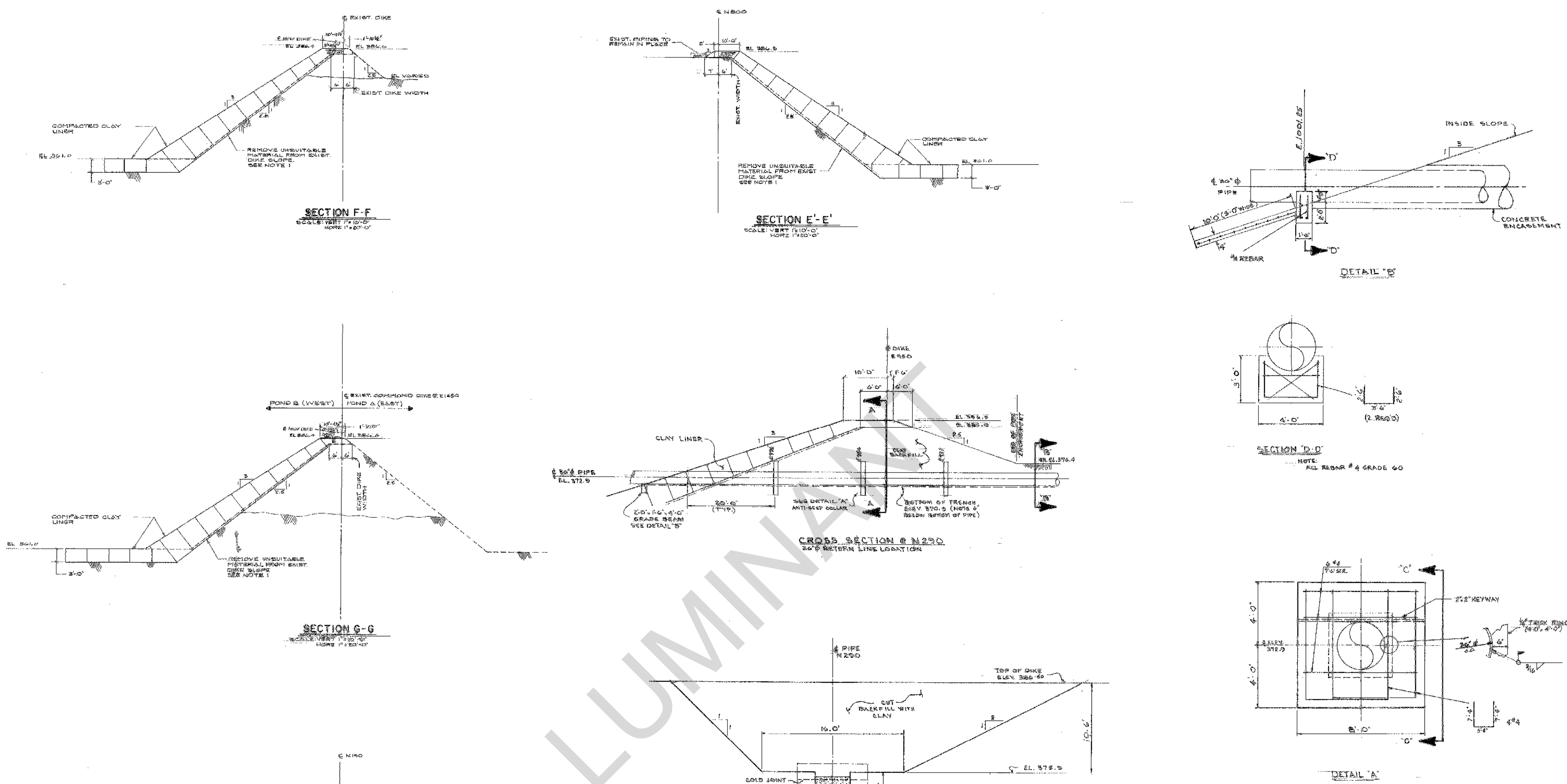
1. FOR INTERIOR OF RUNOFF COLLECTION POND, INSTALL 4 INCHES OF TOPSOIL AND SEEDING ABOVE ELEVATION 363.00, INSTALL 8 INCHES OF TOPSOIL AND SEEDING.

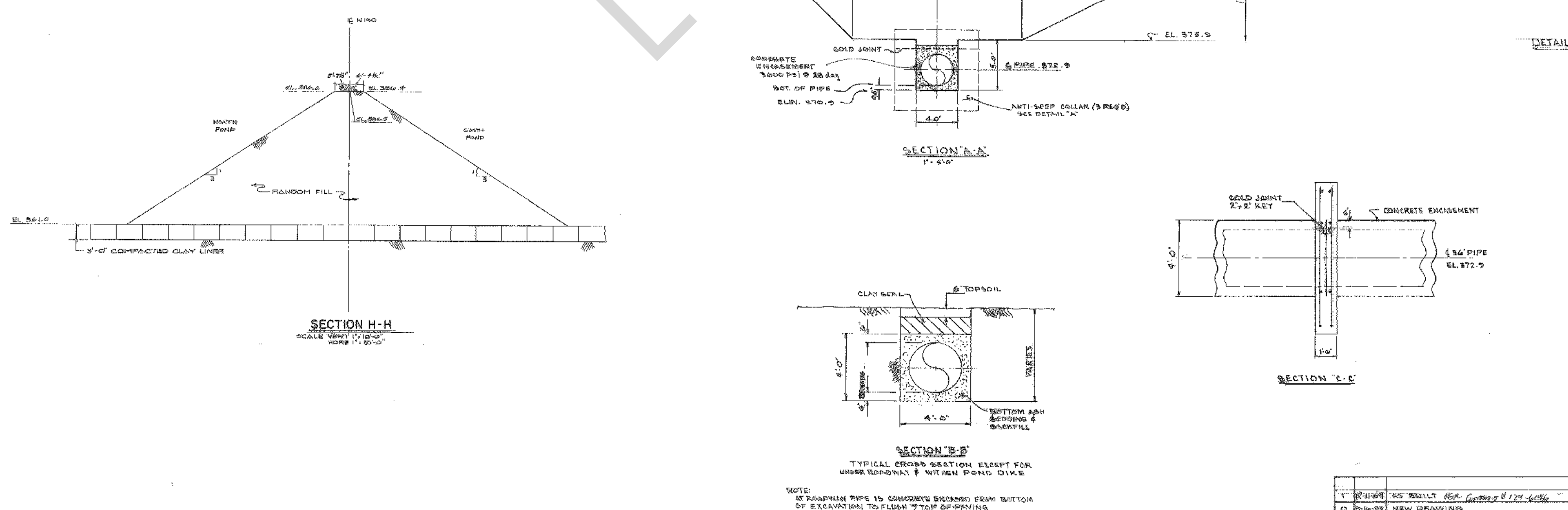
REV.	DATE	DWN.	CHKD.	APVD.	REMARKS
0	5-9-90	V.R.	DGJ	MG.	FOR BID/CONSTRUCTION
1	6-20-90	WLR	DGJ	MG.	FOR BID/CONSTRUCTION SPEC. 129-1423-C8001
1	6-27-90	WLR	DGJ	MG.	FOR CONSTRUCTION, SPEC. 129-1423-C8000
2	9-5-90	DM	DGJ	MG.	REV. REVETMENT MAT DIMENSIONS
3	5-15-92	DM	DGJ	MG.	AS BUILT PID 129-1423, T# 10697

TU ELECTRIC
GENERATING DIVISION
MONTICELLO S.E.S. UNITS 1,2&3

ASH POND SECTIONS & DETAILS

DWG. NO. 129-1423-302 | SH. NO. 02 | REV. 3





NOTES:

1. UNSUITABLE MATERIALS SHALL CONSIST OF SOILS CONTAINING BOTTOM ASH OR SATURATED WITH BOTTOM ASH WATER. MATERIAL REMOVED SHALL BE REPLACED WITH SOIL MEETING CLAY LINER REQUIREMENTS.
2. CLAY LINER MATERIAL SHALL MEET THE FOLLOWING REQUIREMENTS:
   LIQUID LIMITS ≥ 30
   PLASTICITY INDEX ≥ 15
   MATERIAL ≥ 50% PASSING NO 200 SIEVE
   PERMEABILITY ≤ 1x10⁻⁷ CM/SEC

- - - - - - EXIST DIKE SLOPES

REFERENCE DRAWINGS:

ASH DISPOSAL SYSTEM GEN. PLAN & MISC DETAILS:
INDG-9788-G-672
-G-676
-G-637

REV.	DATE	DESCRIPTION	BY	CHK.	APP.
1	12-11-89	AS BUILT per Contract # 129-6046	[illegible]	[illegible]	[illegible]
0	9-16-88	NEW DRAWING	[illegible]	[illegible]	[illegible]

MONTICELLO S.E.S.

BOTTOM ASH POND MODIFICATION
EMBANKMENT CROSS SECTIONS

TEXAS UTILITIES GENERATING Co.

DRAWN BY	APPROVED		
DAP	[signature]		
DATE	CHECKED BY	SCALE	
9-16-88	[signature]	SHOWN	
DRAWING No.		SHEET	REV.
129-1009-301-01			1

BURNS McDONNELL

CREATE AMAZING.

Burns & McDonnell World Headquarters
9400 Ward Parkway
Kansas City, MO 64114
O 816-333-9400
F 816-333-3690
www.burnsmcd.com