

**Part A and Part B Permit Renewal Application for the**

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

RCRA Permit No. NM0001002484

Chaves County, New Mexico

Volume 3  
Permit Attachment L1 - Engineering Drawings

October 17, 2011

*Prepared for:*

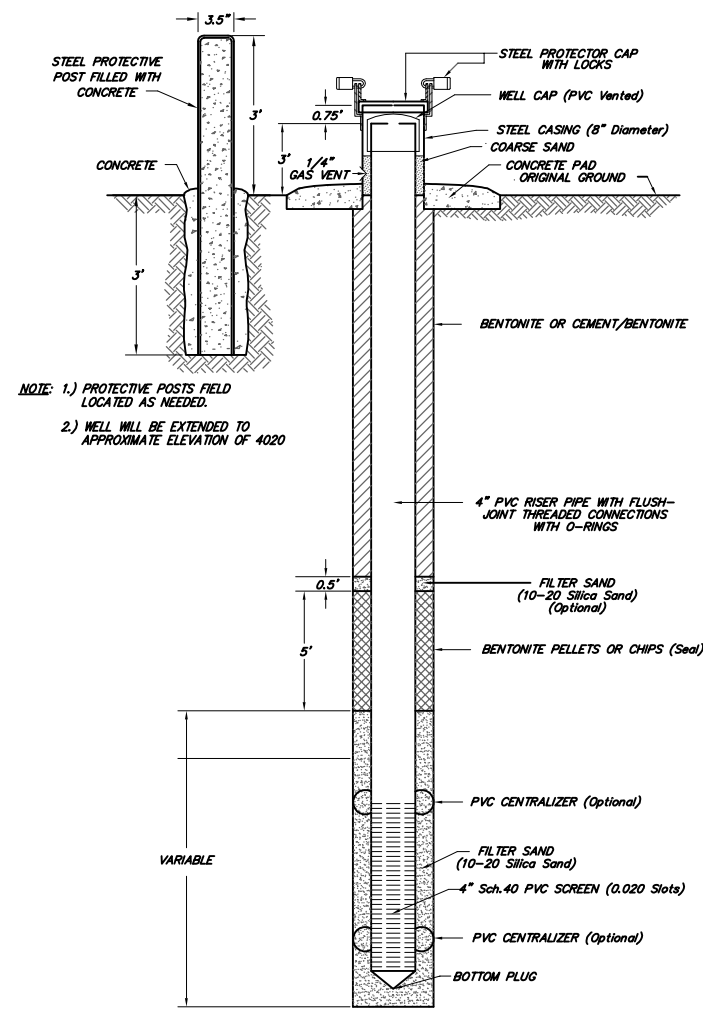
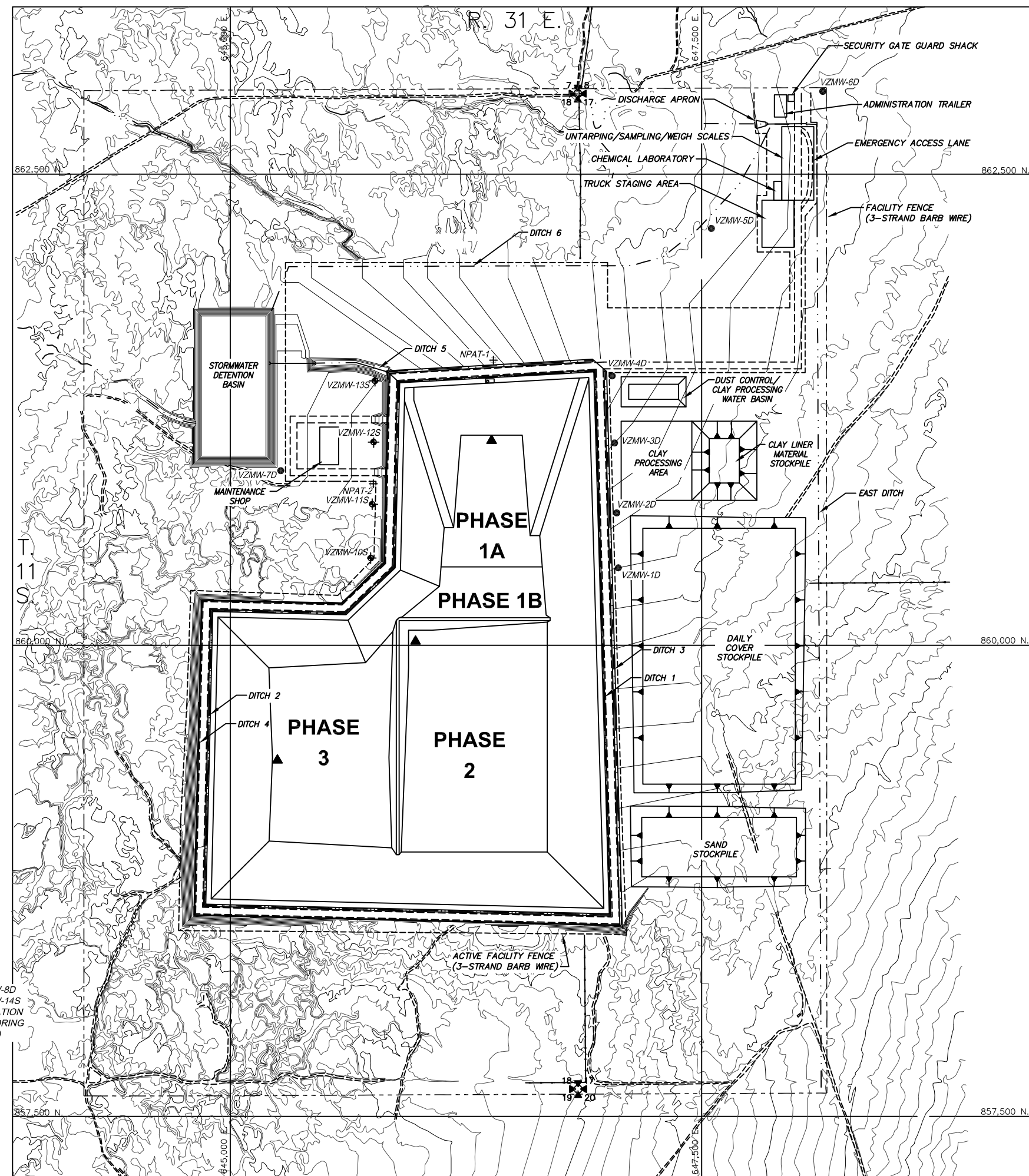
**Gandy Marley, Inc.**  
Post Office Box 1658  
Roswell, New Mexico 88202

*Prepared by:*

**Domenici Law Firm P.C.**  
320 Gold Ave. SW, Suite # 1000  
Albuquerque, New Mexico 87102  
(505) 883-6250

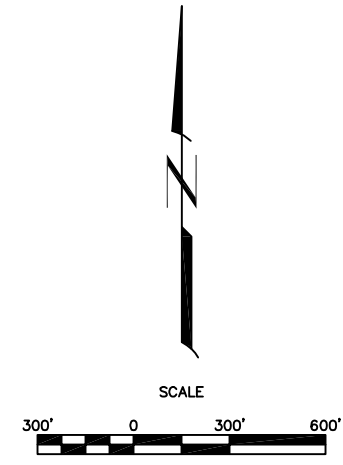
**Daniel B. Stephens & Associates, Inc.**  
6020 Academy NE, Suite 100  
Albuquerque, New Mexico 87109  
(505) 822-9400

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\_TB\_22434



NOTE: 1.) PROTECTIVE POSTS FIELD LOCATED AS NEEDED.  
2.) WELL WILL BE EXTENDED TO APPROXIMATE ELEVATION OF 4020

TYPICAL VADOSE ZONE MONITORING WELL INSTALLATION DETAIL



- LEGEND**
- Existing contour
  - Regraded contour
  - Deep monitoring well
  - Shallow monitoring well
  - Vadose zone sump
  - Neutron probe access tube
  - Facility and active facility fences (3-strand barb wire)

**NOTES:**  
1. VADOSE ZONE MONITOR WELLS VZMW-9D AND VZMW-15S ARE LOCATED APPROXIMATELY 3,300 FEET NORTHWEST OF THE FACILITY BOUNDARY WITHIN 15 FEET OF THE LOCATION OF BORING WW-1.

**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GOP	PART B PERMIT APPLICATION RENEWAL

**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADEMY BLVD., SUITE 100  
 FORT WORTH, TX 76116  
 (817) 822-9400

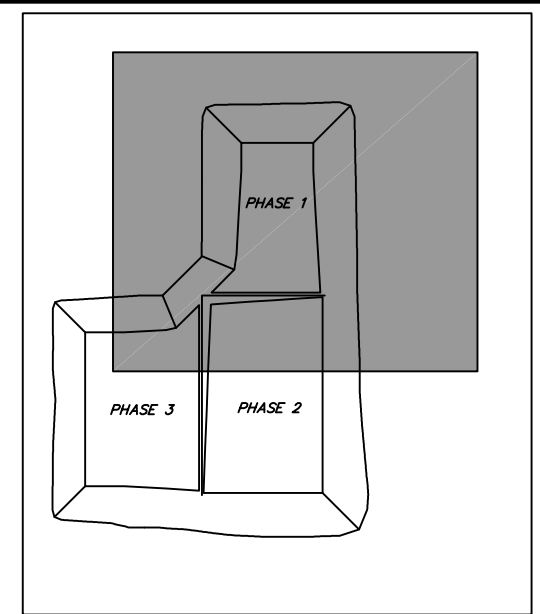
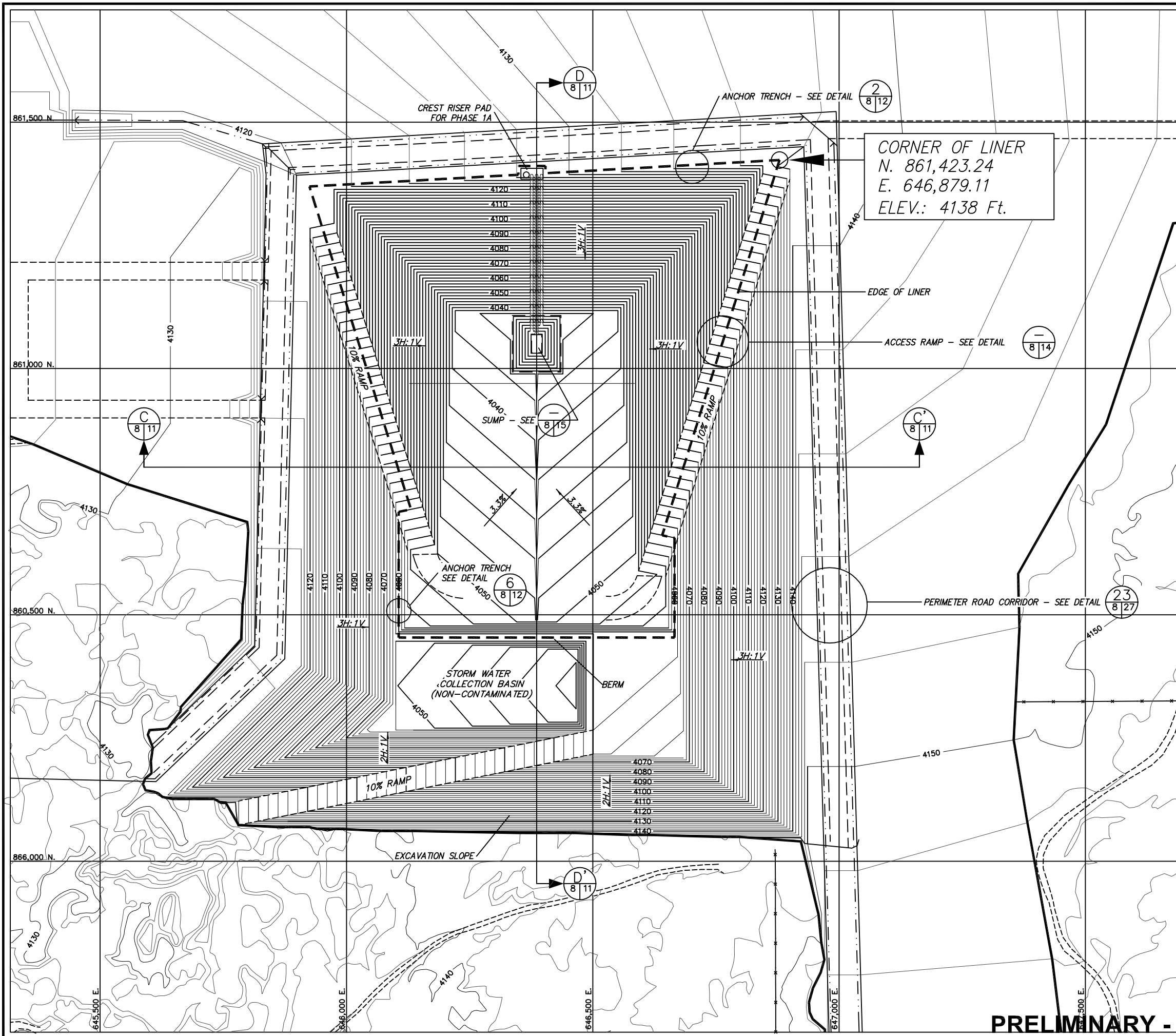
DESIGNED BY:	TC
DRAWN BY:	KCB
CHECKED BY:	GOP
DATE:	10/4/2011

TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO  
**FACILITY LAYOUT**

JOB NO.  
ES11.0141

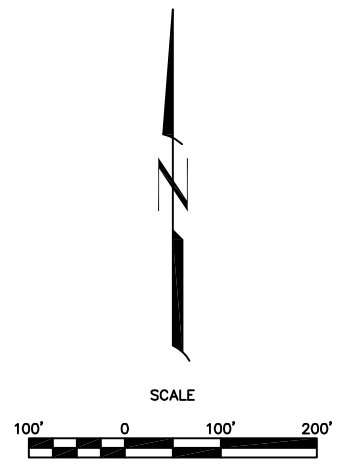
SHEET 1 of 1  
DWG NO. 4

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\TB\_22634



MAP KEY

- NOTES:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.



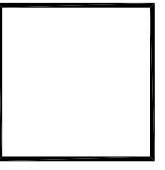
**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GDP	PART B PERMIT APPLICATION RENEWAL

**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADEMY AVE., SUITE 100  
 FORT WORTH, TEXAS 76116  
 (817) 822-9400

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TC	KCB	GDP	10/4/2011

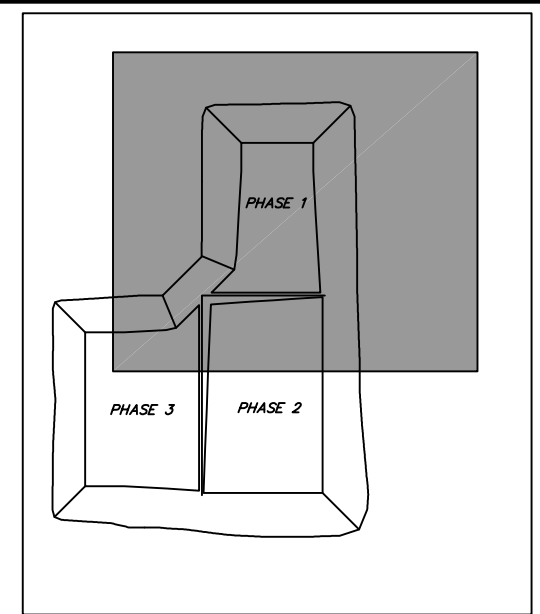
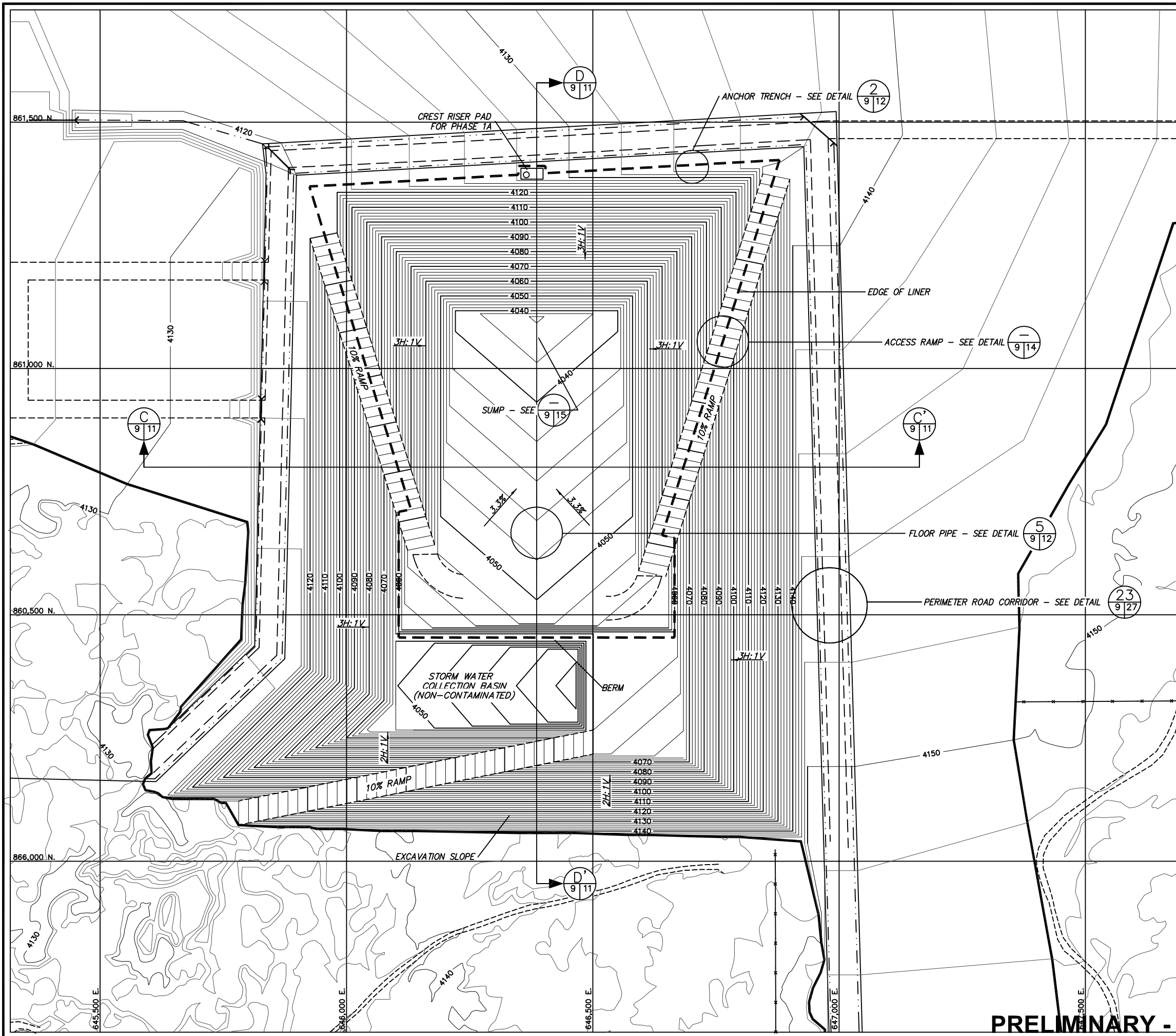
TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO  
**DETAILED EXCAVATION PLAN -  
 PHASE 1A**



JOB NO.  
ES11.0141

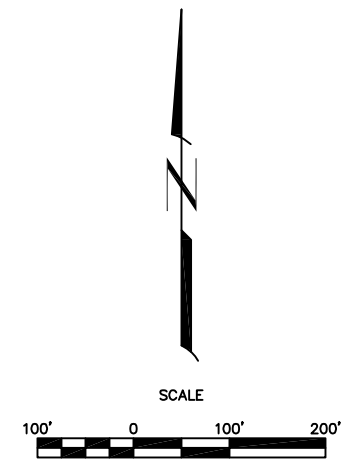
SHEET 1 of 1  
DWG NO. 8

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\TB\_22634



MAP KEY

- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.



**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GDP	PART B PERMIT APPLICATION RENEWAL

FILE NAME: ES11.0141\_TB\_22634.dwg

**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADNEY NE, SUITE 100  
 ALBUQUERQUE, NM 87110  
 (505) 822-9400

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TG	KCB	GDP	10/4/2011

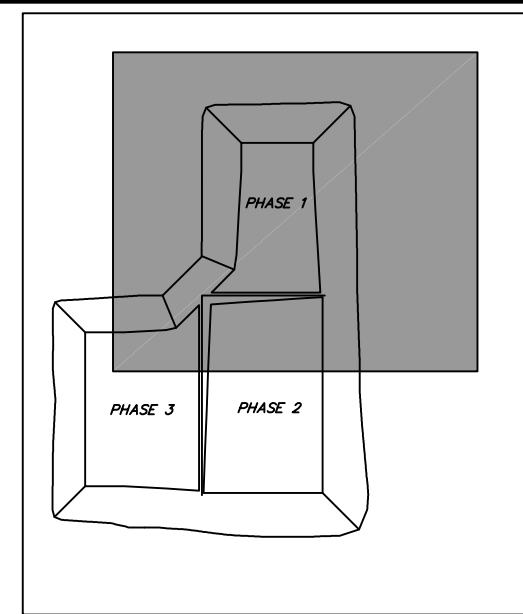
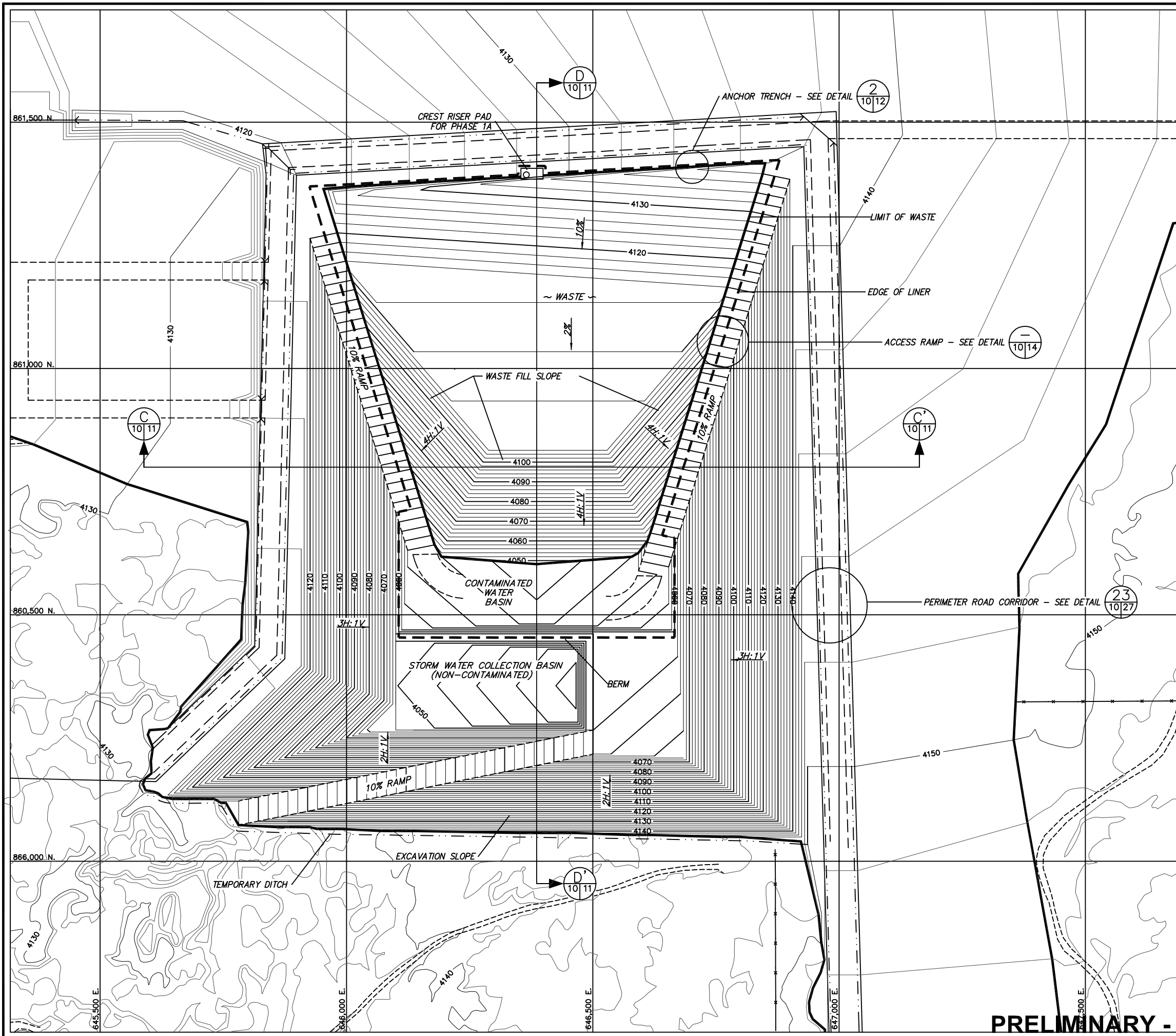
TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO  
**TOP OF PROTECTIVE SOIL LAYER -  
 PHASE 1A**

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JOB NO.  
ES11.0141

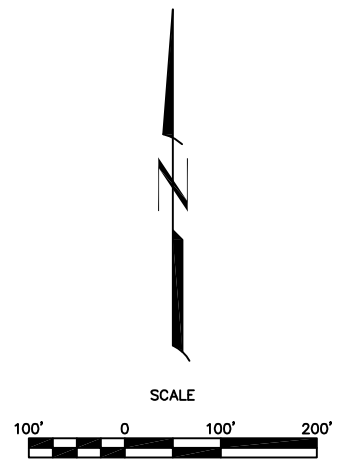
SHEET 1 of 1  
DWG NO. 9

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\TB\_22634



MAP KEY

- NOTES:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLE AND POULS ENGINEERING.
  3. WASTE FILL VOLUME FOR PHASE 1A: 553,200 CY



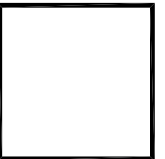
**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GDP	PART B PERMIT APPLICATION RENEWAL

**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADEMY BLVD., SUITE 100  
 FORT WORTH, TEXAS 76116  
 (817) 822-9400

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TC	KCB	GDP	10/4/2011

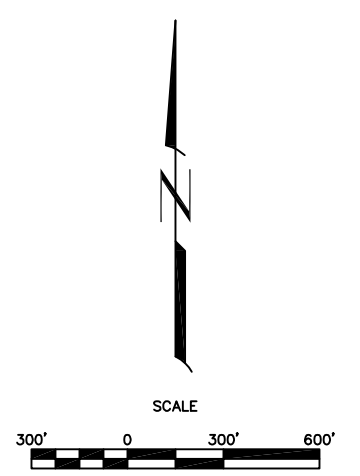
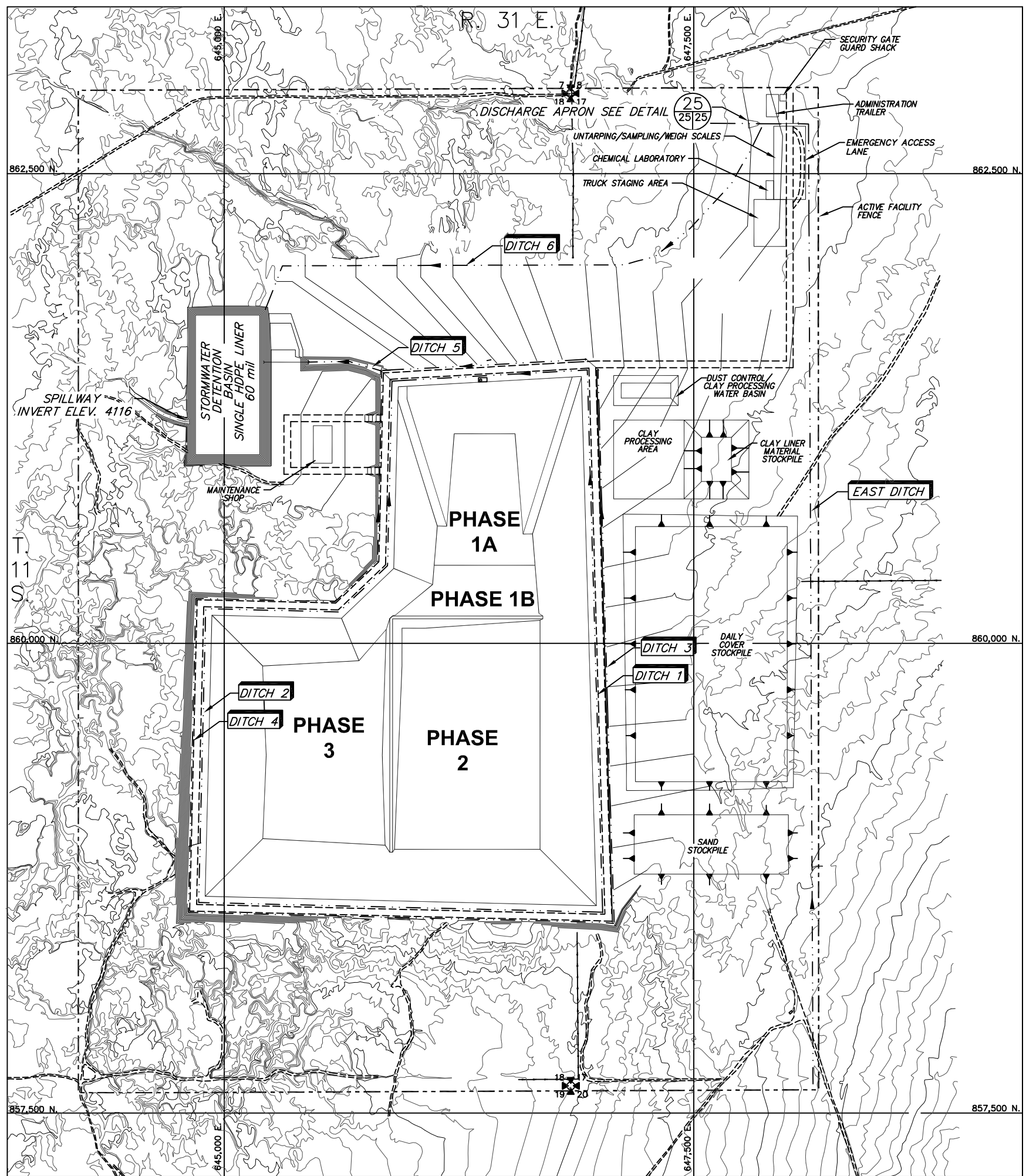
TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO  
**FILLING PLAN -  
 PHASE 1A**



JOB NO.  
ES11.0141

SHEET 1 of 1  
DWG NO. 10

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\TB\_22634



**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GOP	PART B PERMIT APPLICATION RENEWAL

FILE NAME: ES11\_0141\_VR\_SurfaceWaterControl.dwg

**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADNEY NE, SUITE 100  
 ALBUQUERQUE, NM 87110  
 (505) 822-9400

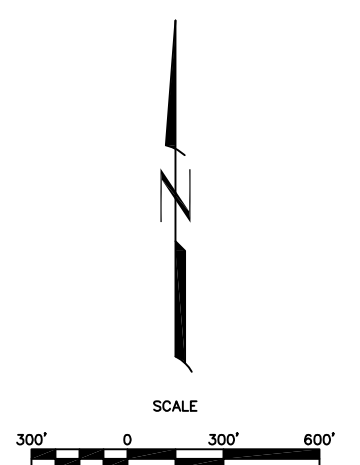
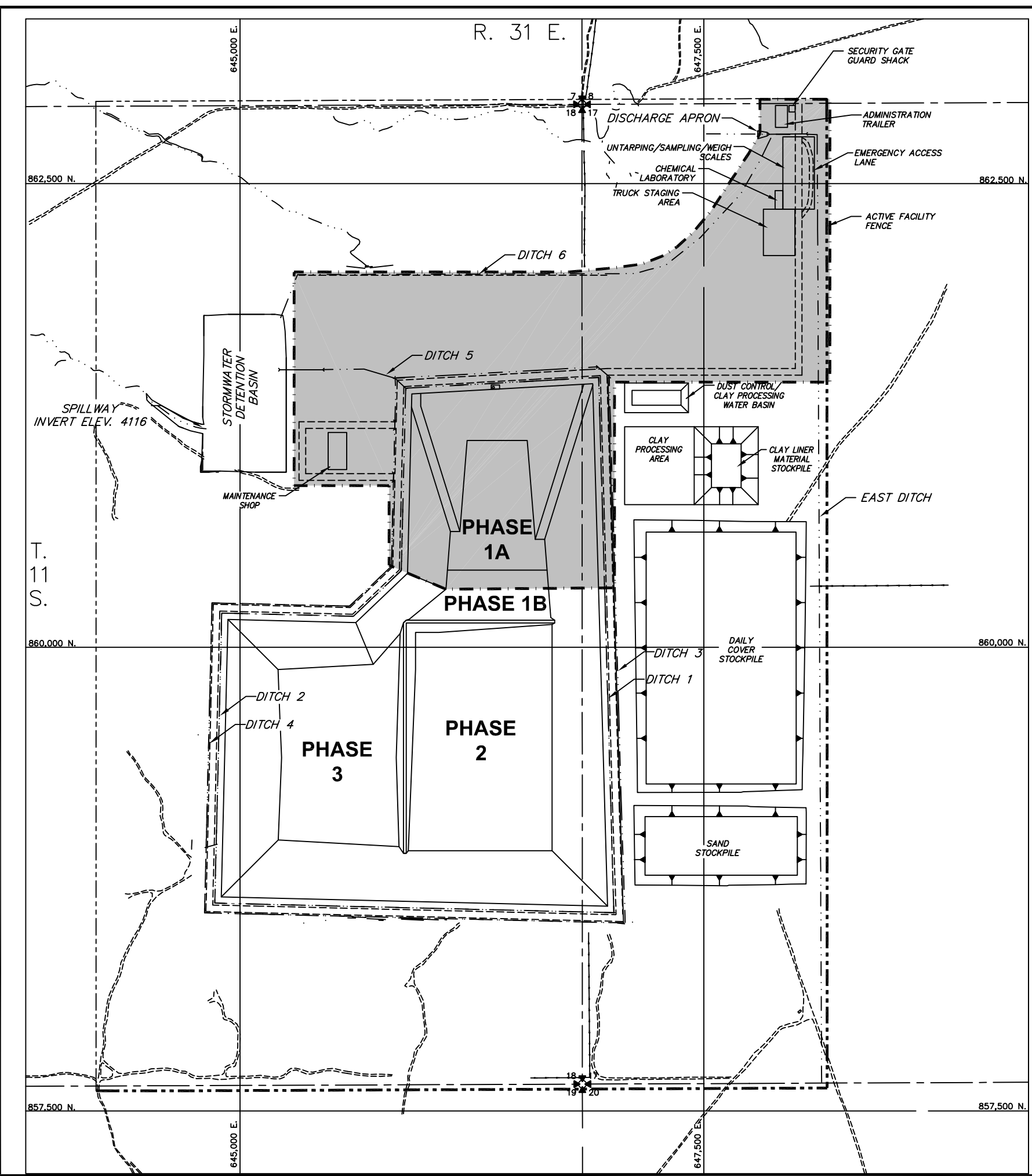
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TC	KCB	GOP	10/4/2011

TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO  
**SURFACE WATER CONTROL FEATURES**

JOB NO.  
 ES11.0141

SHEET 1 of 2  
 DWG NO. 25

XREF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\_VR\_DRAWINGS\TITLEBLOCK\TB\_22634



**LEGEND**  
 [Shaded Area] Limits of landfill operations and waste receiving area

**NOTES:**  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

**PRELIMINARY - NOT FOR CONSTRUCTION**

NO	DATE	BY	REVISION MADE
0	10/18/11	GDP	PART B PERMIT APPLICATION RENEWAL

FILE NAME: ES11.0141\_TB\_22634.dwg

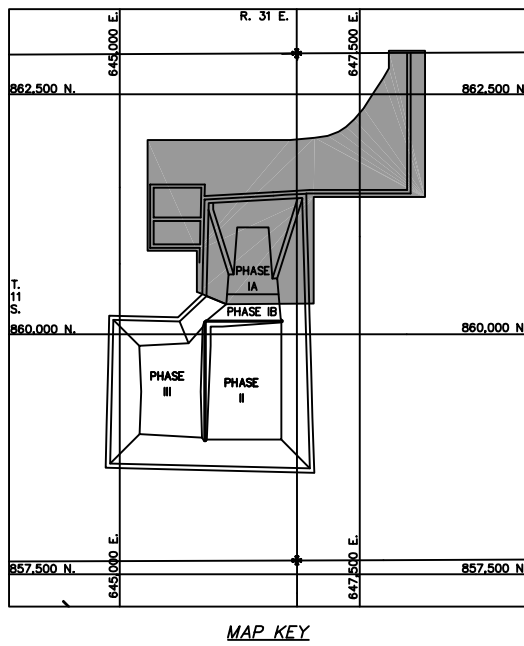
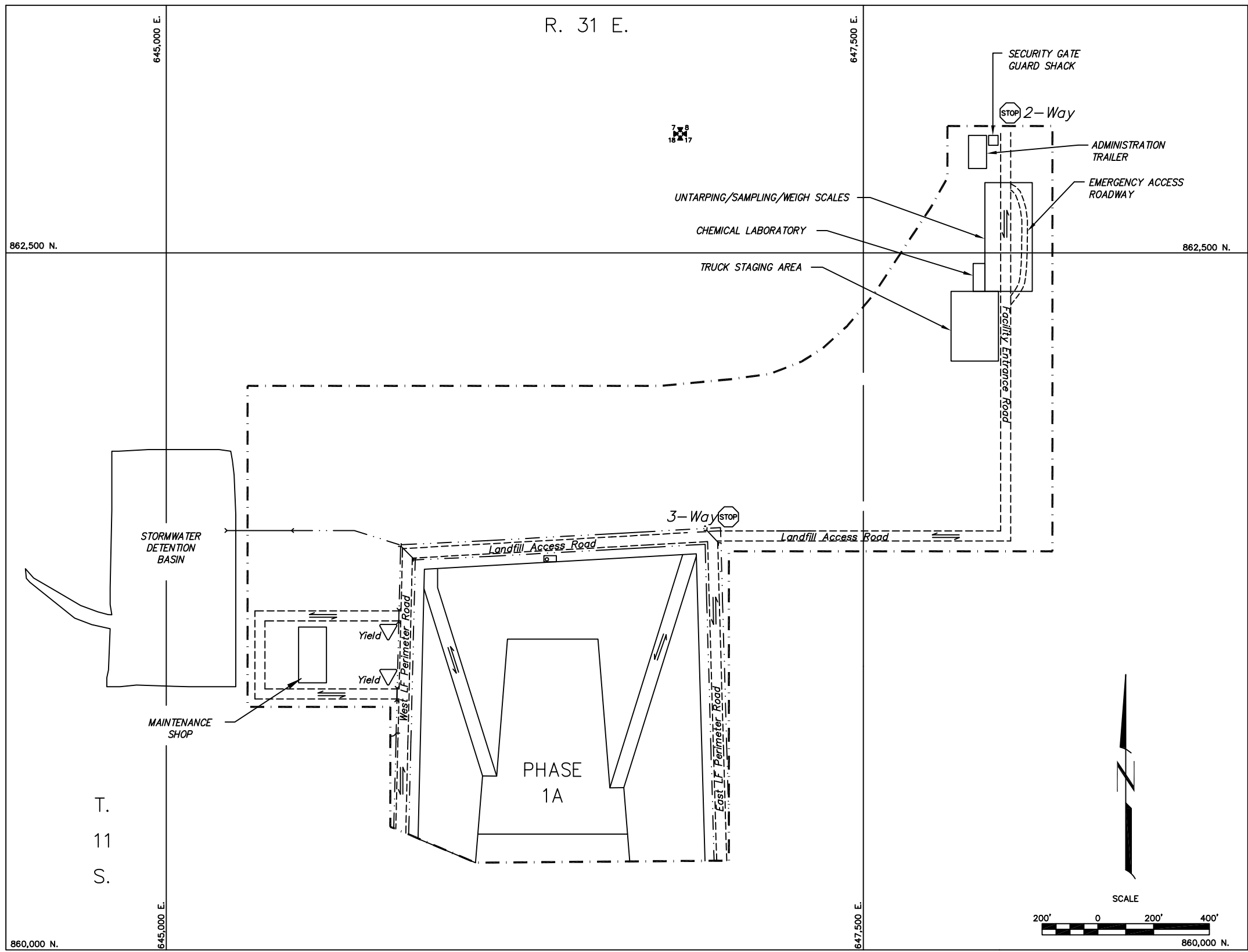
**Daniel B. Stephens & Associates, Inc.**  
 ENVIRONMENTAL SCIENTISTS & ENGINEERS  
 6050 ACADNEY NE, SUITE 100  
 ALBUQUERQUE, NM 87109  
 (505) 822-5400

DESIGNED BY:	TC
DRAWN BY:	KCB
CHECKED BY:	GDP
DATE:	10/4/2011

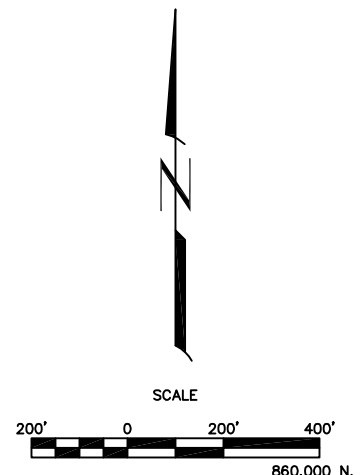
**TRIASSIC PARK WASTE DISPOSAL FACILITY**  
**CHAVEZ COUNTY, NEW MEXICO**  
**TRAFFIC PLAN**

JOB NO.	ES11.0141
SHEET	1 of 2
DWG NO.	26

REF: S:\PROJECTS\EST1.0141\_TRIASSIC\_PARK\_PERMIT\_RENEWAL\DRRAWINGS\TITLEBLOCK\TB\_2234



- NOTES:**
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - UNIMPROVED ROADS AND CONSTRUCTION HAUL ROADS NOT SHOWN. GRAVEL LINED ACCESS ROADS ARE 2 WAY TRAFFIC. ALL SITE ACCESS ROADS SPEED LIMIT IS 15 MPH, CONSTRUCTION HAUL ROAD SPEED LIMIT IS 35 MPH.



NO	DATE	BY	REVISION MADE
0	10/18/11	GDP	PART B PERMIT APPLICATION RENEWAL

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 6050 ACADNEY NE, SUITE 100  
 ALBUQUERQUE, NM 87110  
 (505) 822-5400

DESIGNED BY:	TO:
DRAWN BY:	DATE:
CHECKED BY:	10/18/2011
GDP	

TRIASSIC PARK WASTE DISPOSAL FACILITY  
 CHAVEZ COUNTY, NEW MEXICO

**TRAFFIC PLAN**

JOB NO.  
 ES11.0141

SHEET 2 of 2  
 DWG NO. 26

**PRELIMINARY - NOT FOR CONSTRUCTION**

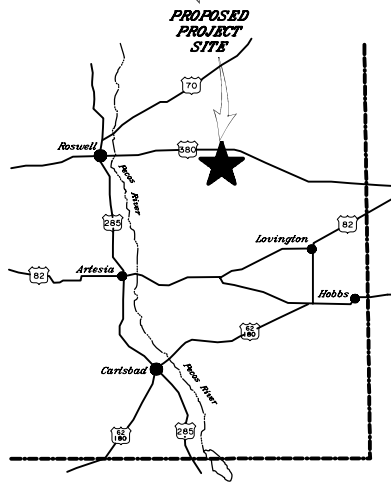
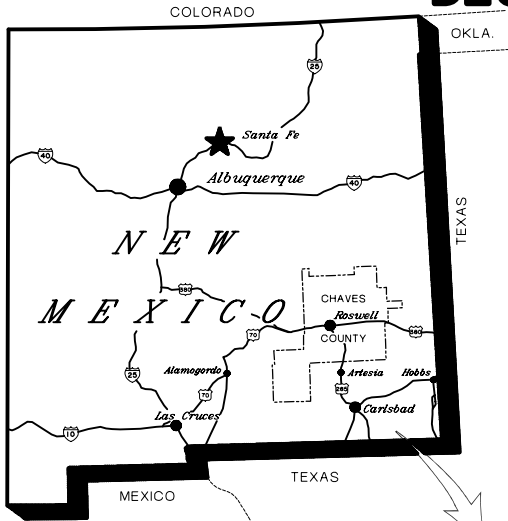


# DESIGN DRAWINGS TRIASSIC PARK WASTE DISPOSAL FACILITY CHAVES COUNTY, NEW MEXICO

## DECEMBER 1997 (Revised October 2000)

RCRA PART B APPLICATION

Not For Construction (See Notes Drawing 2)



### LIST OF DRAWINGS

<u>DRAWING NO.</u>	<u>DRAWING SERIES</u>
1 - 2	GENERAL
3 - 5	FACILITY
6 - 27	LANDFILL
28 - 32	EVAPORATION PONDS
33 - 36	STABILIZATION UNIT
37 - 39	DRUM HANDLING UNIT
40	LIQUID WASTE STORAGE AREA
41 - 43	TRUCK ROLL-OFF AREA
44	TRUCK WASH LAYOUT AND DETAILS
45	CONCRETE AND GRATING DETAILS



**PROFESSIONAL ENGINEER'S STATEMENT**

*I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.*

Date Patrick G. Corser, N.M. P.E. 12236

**PREPARED BY:**



# DESIGN DRAWINGS TRIASSIC PARK WASTE DISPOSAL FACILITY CHAVES COUNTY, NEW MEXICO

## DECEMBER 1997 (Revised October 2000)

RCRA PART B APPLICATION

Not For Construction (See Notes Drawing 2)

### LIST OF DRAWINGS

Drawings included for reference but eliminated as annotated for 2011 permit renewal.

	DRAWING NO.	DRAWING TITLE
GENERAL	1	COVER SHEET (2 Sheets)
	2	INDEX, LEGEND AND GENERAL NOTES
FACILITY	3	EXISTING TOPOGRAPHY
	4	FACILITY LAYOUT
	5	INITIAL SITE GRADING PLAN
LANDFILL	6	ULTIMATE LANDFILL EXCAVATION PLAN
	7	LANDFILL CROSS-SECTIONS
	8	DETAILED EXCAVATION PLAN - PHASE 1A
	9	TOP OF PROTECTIVE SOIL LAYER - PHASE 1A
	10	FILLING PLAN - PHASE 1A
	11	PHASE 1A CROSS-SECTIONS
	12	LINER DETAILS
	13	COLLECTION BASIN PLAN AND DETAILS
	14	LANDFILL ACCESS RAMP DETAILS
	15	SUMP PLAN VIEW - PHASE 1A
	16	SUMP CROSS-SECTIONS - PHASE 1A

	DRAWING NO.	DRAWING TITLE	
LANDFILL	17	TYPICAL SUMP DETAIL CROSS-SECTION	
	18	VADOSE, LDRS, LCRS CROSS-SECTIONS AND DETAILS	
	19	CREST RISER PAD AND LEACHATE STORAGE TANK PLAN VIEW AND CROSS-SECTIONS (3 Sheets)	
	20	VERTICAL RISER DETAILS (2 Sheets)	
	21	FINAL GRADING PLAN - TOP OF WASTE CONTOURS	
	22	FINAL GRADING PLAN - TOP OF VEGETATIVE COVER CONTOURS	
	23	FINAL COVER DETAILS	
	24	INTERPHASE BERM SECTION	
	25	SURFACE WATER CONTROL FEATURES (2 Sheets)	
	26	TRAFFIC PLAN (2 Sheets)	
	27	PERMETER ROAD DETAILS	
	EVAPORATION POND	<del>28</del>	<del>EVAPORATION POND SUBGRADE CONTOURS - PHASE 1</del>
		<del>29</del>	<del>EVAPORATION POND CLAY LINER CONTOURS - PHASE 1</del>
		<del>30</del>	<del>EVAPORATION POND CROSS-SECTIONS</del>
<del>31</del>		<del>EVAPORATION POND TRUCK DISCHARGE SECTION (2 Sheets)</del>	
<del>32</del>	<del>EVAPORATION POND LDRS AND VADOSE PLAN AND DETAILS</del>		

	DRAWING NO.	DRAWING TITLE
STABILIZATION UNIT	<del>34</del>	<del>STABILIZATION UNIT GENERAL ARRANGEMENT</del>
	<del>35</del>	<del>STABILIZATION UNIT WASTE FLOW DIAGRAM</del>
	<del>36</del>	<del>STABILIZATION UNIT BIN DESIGN</del>
	<del>37</del>	<del>STABILIZATION BIN DESIGN DETAILS (2 Sheets)</del>
	<del>38</del>	<del>DRUM HANDLING UNIT GENERAL ARRANGEMENT</del>
	<del>39</del>	<del>DRUM HANDLING UNIT DETAILS</del>
DRUM HANDLING UNIT	<del>40</del>	<del>DRUM HANDLING UNIT SUMP DETAILS (2 Sheets)</del>
	<del>41</del>	<del>LIQUID WASTE RECEIVING AND STORAGE UNIT LAYOUT (2 Sheets)</del>
	<del>42</del>	<del>TRUCK ROLL-OFF AREA DRAINAGE SURFACE CONTOURS</del>
TRUCK ROLL-OFF AREA	<del>43</del>	<del>TRUCK ROLL-OFF AREA SUBGRADE CONTOURS</del>
	<del>44</del>	<del>TRUCK ROLL-OFF AREA LINER DETAILS (2 Sheets)</del>
	<del>45</del>	<del>TRUCK WASH LAYOUT AND DETAILS (2 Sheets)</del>
	46	CONCRETE AND GRATING DETAILS (5 Sheets)



**PROFESSIONAL ENGINEER'S STATEMENT**

I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**PREPARED BY:**



**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

# LEGEND

## GENERAL LINES

	FACILITY BOUNDARY AND ACTIVE FACILITY FENCE
	EXISTING INDEX CONTOUR
	EXISTING INTERMEDIATE CONTOUR
	SUBGRADE EXCAVATION CONTOURS
	TOP OF CLAY LINER
	TOP OF SUBGRADE LAYER
	TOP OF PROTECTIVE SOIL
	TOP OF WASTE
	TOP OF EXISTING SURFACE
	EXISTING GRAVEL ROAD
	EXISTING DRAINAGE
	SECTION LINE
	EDGE OF REGRADE
	GRADE BREAK LINE
	NEW SURFACE WATER DRAINAGE DITCHES
	EDGE OF LINER

## GEOSYNTHETIC TYPES

	GEOMEMBRANE
	GEOTEXTILE
	GEONET
	GEOCOMPOSITE
	GCL

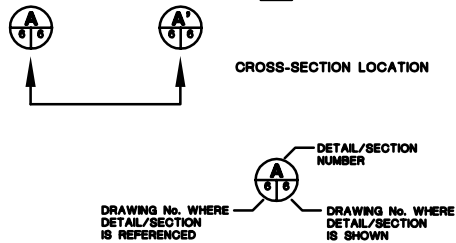
## MISCELLANEOUS

	FENCE
	SLOPE
	SECTION CORNER
	SURVEY CONTROL POINT
	CULVERT
	NOMINAL DIAMETER
	DIRECTION OF FLOW

## FILL PATTERNS

	CLAY LINER
	DRAINAGE GRAVEL
	FOUNDATION/PIPE BEDDING SAND
	SUBGRADE
	PREPARED SUBGRADE
	SUBBASE
	PROTECTIVE SOIL
	VEGETATIVE COVER
	CONCRETE
	ROAD-BASE
	STRUCTURAL FILL
	ALLUVIAL DEPOSITS
	UPPER DOCKUM
	LOWER DOCKUM
	WASTE
	SELECT SUBBASE

## KEY



## GENERAL NOTES

- DRAWINGS PRESENT FINAL DESIGNS FOR THE RCRA PERMITTED FACILITIES. DETAILS ON THE RCRA COMPONENTS OF THE FACILITIES MAY BE SUPPLEMENTED DURING THE BIDDING AND CONSTRUCTION PHASE. GANDY MARLEY WILL SUPPLY THE ADDITIONAL DETAILS ON THE NON-RCRA COMPONENTS OF THE DESIGN TO NMED FOR REVIEW AND APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- DESIGN DRAWINGS WERE PREPARED FOR PART "B" PERMIT SUBMITTAL.
- DESIGN DRAWINGS TO BE USED IN CONJUNCTION WITH CONSTRUCTION SPECIFICATIONS AND CONSTRUCTION QUALITY ASSURANCE PLAN.
- THIS SET OF DRAWINGS TO BE USED FOR PART B PERMIT APPLICATION. DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION. ADDITIONAL WORK TO BE COMPLETED TO ISSUE DRAWINGS FOR CONSTRUCTION INCLUDE THE FOLLOWING:
  - RECEIPT OF PART B PERMIT
  - SURVEY GRID POINT LISTING FOR CONSTRUCTION STAKING
  - REVIEW AND APPROVAL OF CONTRACTOR EQUIPMENT, MATERIALS, PROCEDURES, SUBMITTALS AND SHOP DRAWINGS.
- TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST, 1997, KOOGLE & POULS ENGINEERING.
- PROTECTIVE SOIL CONSISTS OF SELECT ONSITE SOILS.
- GEOCOMPOSITE CONSISTS OF GEOTEXTILE BONDED TO GEONET.
- GEOMEMBRANE IS A MINIMUM 60 mil HDPE.
- 48-in. WIDE USED CONVEYOR BELT SHALL NOT HAVE STEEL WIRE REINFORCEMENTS OR OTHER PROTRUSIONS WHICH MAY DAMAGE UNDERLYING GEOMEMBRANE.
- EVAPORATION POND TOPOGRAPHY ON DRAWING 29 IS TOP OF CLAY LINER.
- ACTUAL SIZE, LOCATION, AND ORIENTATION OF STABILIZATION FACILITY AND ANCILLARY STRUCTURES AND EQUIPMENT TO BE DETERMINED DURING FINAL DESIGN.
- TOTAL CAPACITY OF COLLECTION BASIN POND NEEDED: 6.0 AC-FT.
- ELECTRICAL AND PIPING TO BE DESIGNED BY CONTRACTOR. SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW AND APPROVED BY ENGINEER.
- ALL ANCILLARY EQUIPMENT WILL BE SUPPORTED AND PROTECTED AGAINST PHYSICAL DAMAGE AND EXCESSIVE STRESS DUE TO SETTLEMENT, VIBRATION, EXPANSION, OR CONSTRUCTION, AND WILL BE INSTALLED ACCORDING TO API PUBLICATION 1615 (NOVEMBER 1979) OR ANSI STANDARD B31.2 AND ANSI STANDARD B31.4.
- ALL GEOSYNTHETIC MATERIALS HAVE BEEN EXAGGERATED FOR CLARITY.
- ALL CONCRETE SURFACES WHICH ARE EXPOSED TO POTENTIALLY HAZARDOUS MATERIALS AND ARE INTENDED AS CONTAINMENT FEATURES OR DIP PADS SHALL BE EPOXY COATED.
- ALL PIPING WITHIN LINED FACILITIES WILL BE SINGLE WALL PIPE. DOUBLE WALL PIPE WILL BE USED FOR ALL PIPING OUTSIDE OF LINED FACILITIES.
- LDRS - LEACHATE COLLECTION REMOVAL SYSTEM
- LDRS - LEAKAGE DETECTION REMOVAL SYSTEM
- USCS - UNIFIED SOIL CLASSIFICATION SYSTEM IS A SYSTEM WHICH CLASSIFIES SOIL TYPES ACCORDING TO SOIL TEXTURE AND GRAIN SIZE.
- CONCRETE STRUCTURAL DETAILS ARE SHOWN ON DRAWING 45. THESE APPLY TO ANY CONCRETE SHOWN THROUGHOUT THE DRAWING SET.
- DAILY COVER WILL CONSIST OF SOIL SPREAD ON TOP OF THE LANDFILL WASTE PLACEMENT AREA TO A DEPTH OF APPROXIMATELY 0.5 FEET.
- PERMIT APPLICATION APPLIES TO PHASE 1A.

## Not For Construction

REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY
4	October 2000 Revision	10/14/00	J.Palmer	K.Covath	P.Corsar
3	November 1999 Update	11/02/99	J.Trancosta	M.Mitchell	P.Corsar
2	September 1998 Revision	9/17/98	P.Corsar	K.Covath	P.Corsar
1	November 1996 Revision	10/29/96	J.Palmer	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	03/20/97	PQC/JP	K.Covath	P.Corsar



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236

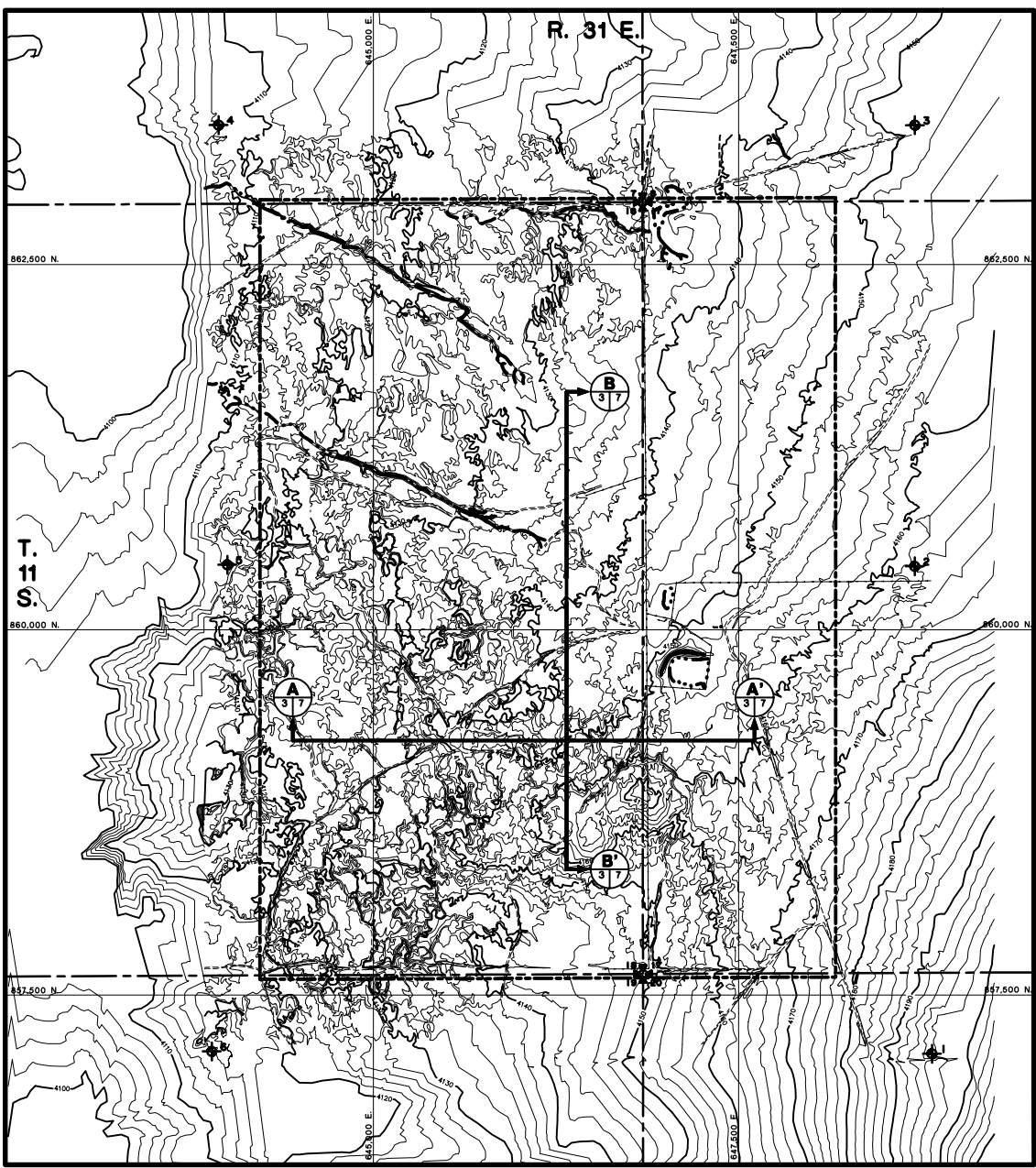
## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:  
**INDEX, LEGEND  
AND GENERAL NOTES**

	<b>TerraMatrix</b>	Sheet <u>1</u> Of <u>1</u> Sheets
	MONTGOMERY WATSON Mapping Group	SCALE: DRAWING No. <b>2</b>

Not to Scale

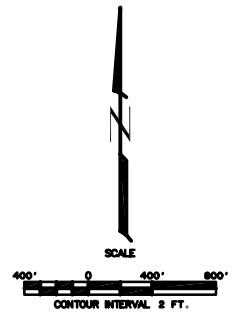
AUTOCAD FILE: GANDY-LEZDZD.WG PROJECT NUMBER: 802-0200



**SURVEY CONTROL POINTS**

CONTROL POINT NUMBER	NORTHING	EASTING	ELEVATION
1	857,099.19	848,823.16	4,197.55
2	860,436.24	848,704.91	4,161.92
3	863,453.55	848,706.31	4,152.96
4	863,454.95	843,940.29	4,105.99
5	860,445.06	844,000.06	4,113.51
6	857,114.96	843,893.71	4,116.20

- NOTES:**
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEY PERFORMED AUGUST 1987 BY KOOGLE AND POULS ENGINEERING. ADDITIONAL TOPO TAKEN FROM MESCALERO POINT, NEW MEXICO 7.5 MINUTE SERIES, DATED 1973.
  - SURVEY CONTROL POINTS SET IN FIELD WITH REBAR AND CAP BY JOHN WEST ENGINEERING COMPANY, AUGUST 1987.



**Not For Construction**



**PROFESSIONAL ENGINEER'S STATEMENT**  
*I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.*

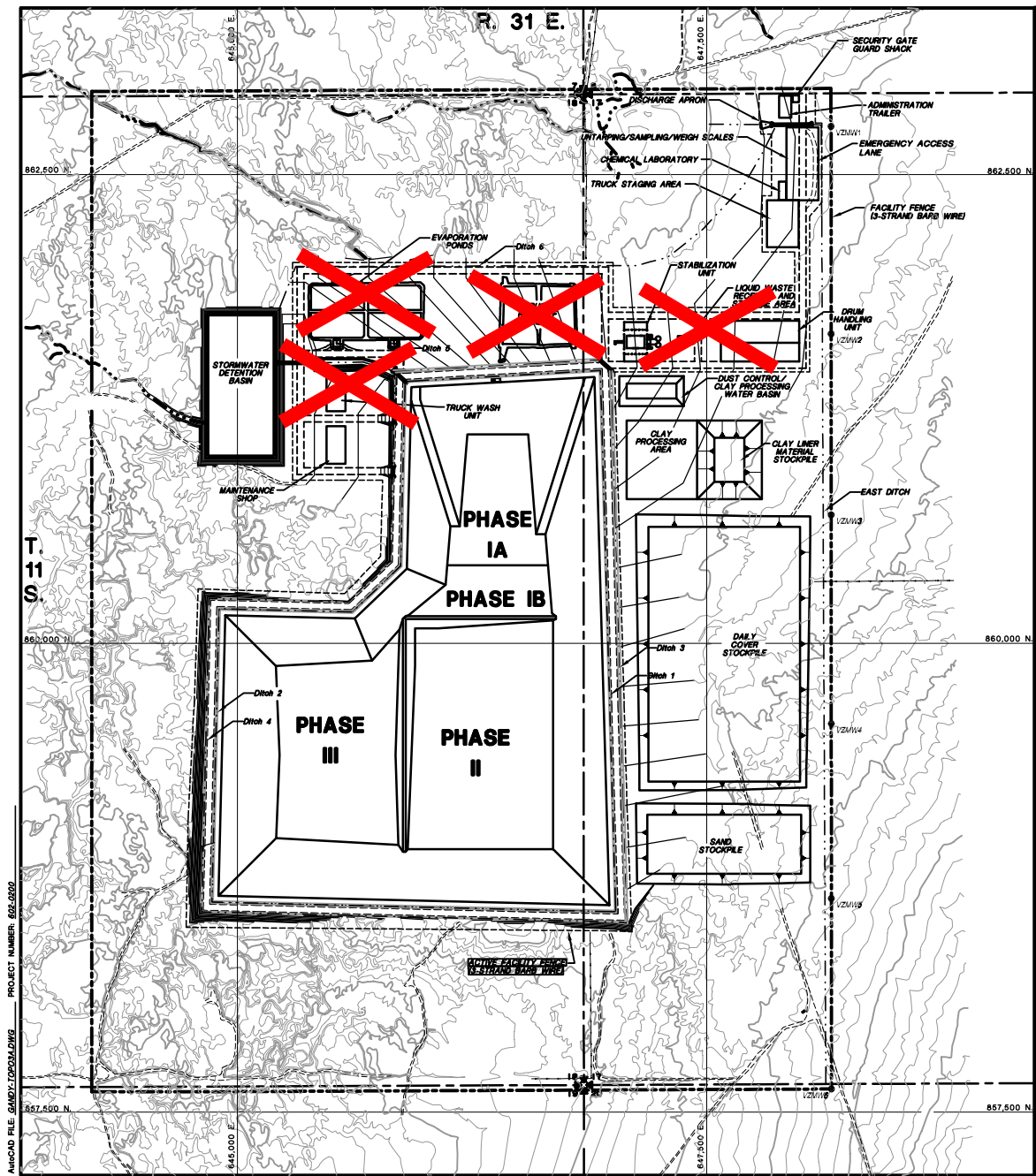
Date Patrick G. Corser, NM P.E. 12236

REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND CHECKED BY
1	October 2000 Revision	10/1/00	J.Pulver	K.Covarrub	P.Corser
2	PART B PERMIT APPLICATION	8/15/97	PGC/APP	T.Smith	P.Corser

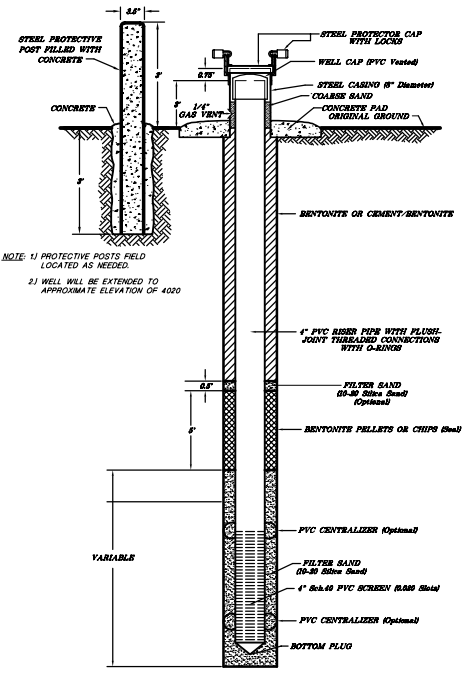
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**EXISTING TOPOGRAPHY**

<b>TerraMatrix</b> MONTGOMERY WATSON Mass Group	Sheet <u>1</u> Of <u>1</u> Sheets
	SCALE: AS NOTED DRAWING No. <b>3</b>



**TYPICAL VADOSE ZONE MONITORING WELL INSTALLATION DETAIL**



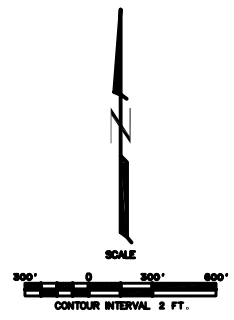
- NOTE: 1) PROTECTIVE POSTS FIELD LOCATED AS NEEDED.  
 2) WELL WILL BE EXTENDED TO APPROXIMATE ELEVATION OF 4020

- NOTES:  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".  
 2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLE AND POULS ENGINEERING.  
 3. THE VADOSE ZONE MONITORING WELLS WILL BE EXTEND TO ELEVATION 4020, APPROXIMATELY.

**LEGEND**

- EXISTING CONTOUR
- REGRADED CONTOUR
- VZM12 ● VADOSE ZONE MONITORING WELLS
- - - FACILITY AND ACTIVE FACILITY FENCES (3-Strand Barb Wire)

Drawing replaced by DBS&A for 2011 permit renewal under separate cover, including the notations shown on this sheet.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this map was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date            Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	November 1998 Update	11/02/99	J.Troscio	M.Holmes	P.Corser
1	November 1998 revision	10/29/98	J.Phillips	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	02/15/97	PDC/LPP	T.Smith	P.Corser
REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**FACILITY LAYOUT**

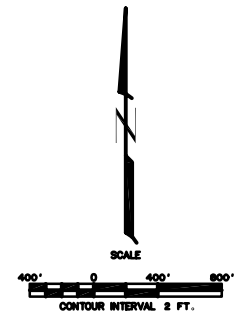
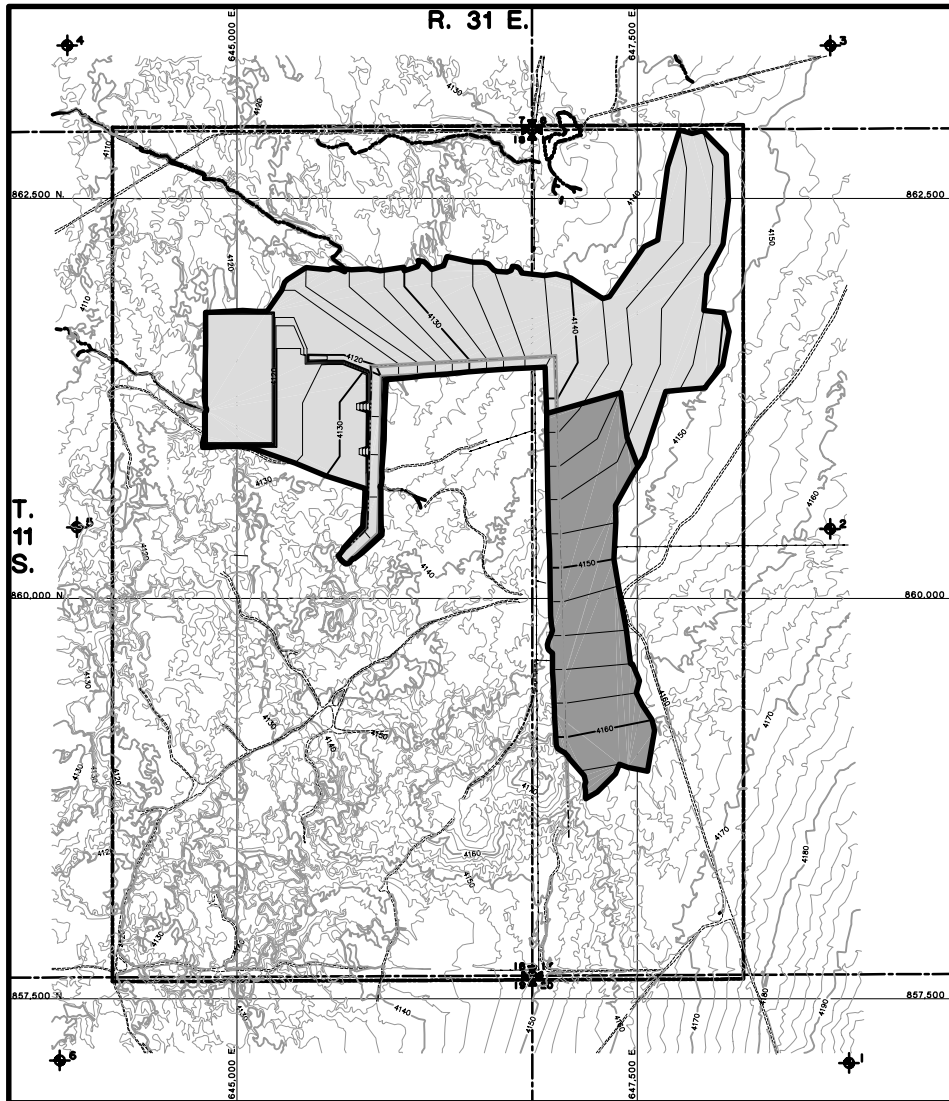
<b>TerraMatrix</b> MONTGOMERY WATSON Mang Group	Sheet <u>  </u> Of <u>  </u> Sheets
	SCALE: AS NOTED DRAWING No. <b>4</b>

AutoCAD FILE: GARDY120206LW08 PROJECT NUMBER: 855-2650

# LEGEND

-  REGRADE AREA - CUT - 229,200 cy
-  REGRADE AREA - FILL - 75,100 cy

- NOTES:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLE AND POULS ENGINEERING.
  3. SURVEY CONTROL POINTS SET IN FIELD WITH REBAR AND CAP BY JOHN WEST ENGINEERING COMPANY, AUGUST 1997.



Not For Construction

1	October 2000 Revision	10/14/00	J.Pellmar	K.Coverth	P.Corsar
2	PART B PERMIT APPLICATION	12/12/01	PGD/PP	T.Smith	P.Corsar
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:  
**INITIAL SITE GRADING PLAN**

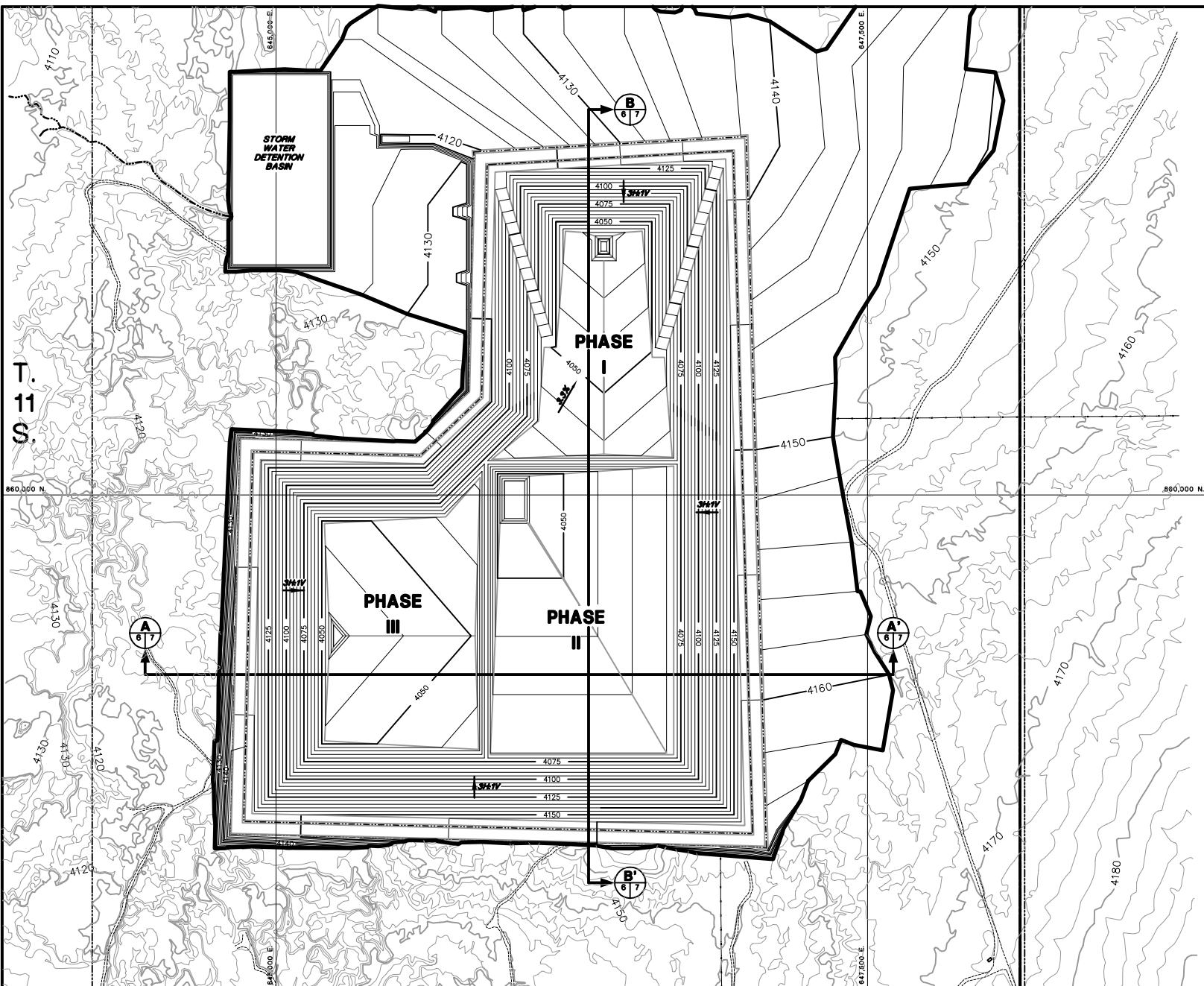


**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236

	<b>TerraMatrix</b> MONTGOMERY WATSON McGraw Hill Group	Sheet 1 of 1 Sheets
SCALE AS NOTED	DRAWING No. 5	

PROJECT NUMBER: 802-5020  
 AutoCAD FILE: 2844162.DWG



- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.
  - BASE GRADES FOR PHASES I AND II TO BE MODIFIED PRIOR TO CONSTRUCTION TO ACHIEVE A MINIMUM OF 2%.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.  
 Date: Patrick G. Corser, MI P.E. 12236



SCALE  
 0 200' 400'  
 CONTOUR INTERVAL 5 FT.  
 SURFACE TOPOGRAPHY CONTOUR INTERVAL 2 FT.

**Not For Construction**

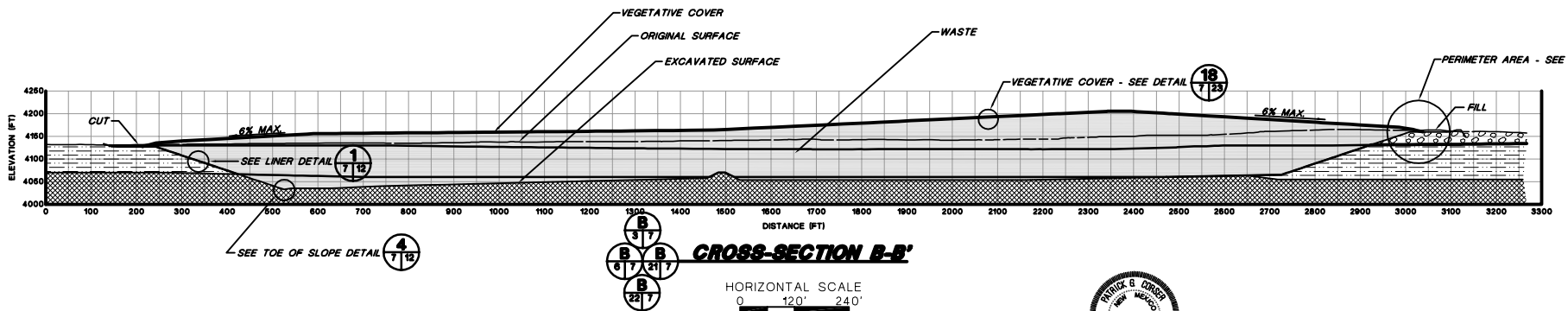
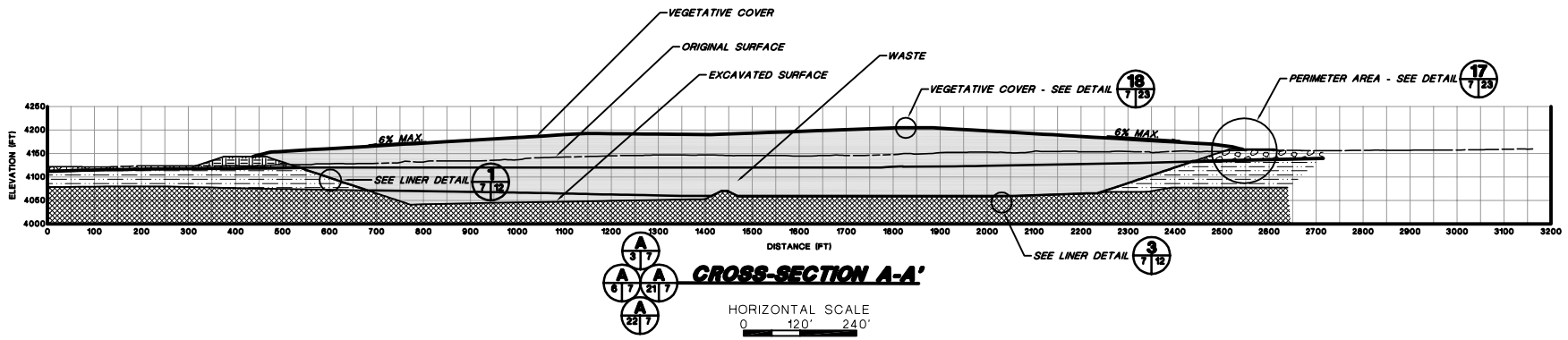
2	October 2008 Revision	10/1/08	J.Palmer	K.Corneth	P.Corser
1	November 1998 Revision	10/29/98	J.Palmer	T.Smith	P.Corser
0	PART 8 PERMIT APPLICATION	12/12/97	PGC/APP	ENS	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND APPROVED BY

**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

DRAWING TITLE: **ULTIMATE LANDFILL  
 EXCAVATION PLAN**

**TerraMatrix**  
 MONTGOMERY WATSON  
 Waste Group

Sheet    of    Sheets  
 SCALE: AS NOTED  
 DRAWING NO. **6**



- NOTES:**
- CROSS-SECTIONS NOT CUT PERPENDICULAR TO COVER CONTOURS; THEREFORE TRUE COVER SLOPES NOT SHOWN.
  - EXTENT OF GEOLOGIC UNITS IS INFERRED BASED ON SUBSURFACE EXPLORATION PROGRAM.
  - SYMBOLS FOR GEOLOGIC UNITS ARE SHOWN ON DRAWING 2.
  - FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.  
 Date Patrick G. Corser, NM P.E. 12236



**Not For Construction**

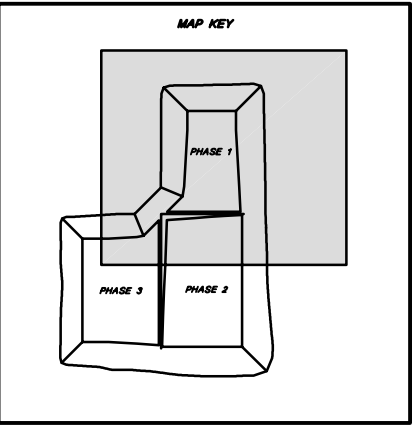
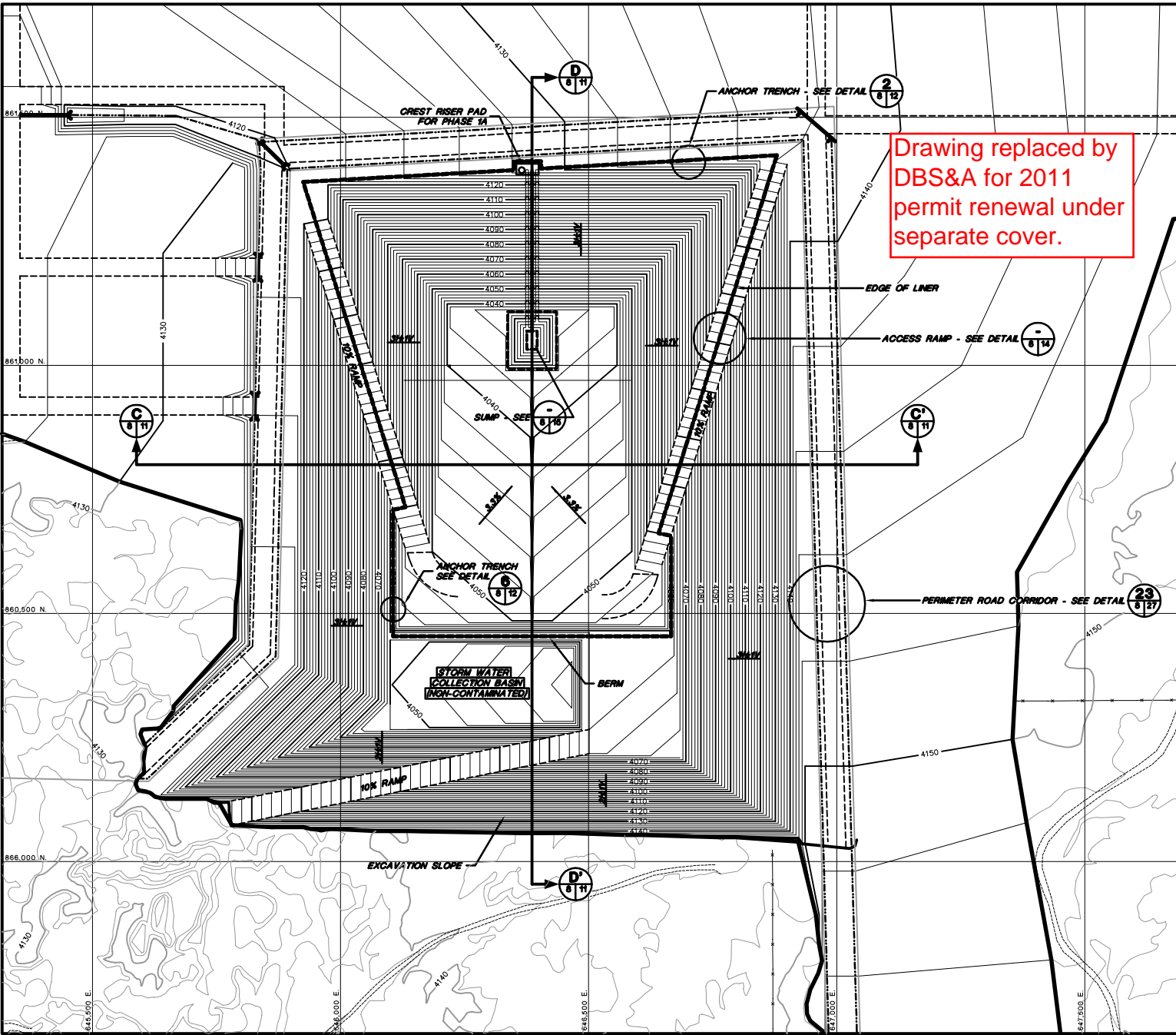
#	October 2000 Revision	10/4/00	J.Pellico	K.Covath	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pellico	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	5/15/97	PGC/JPP	T.Smith	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**LANDFILL CROSS-SECTIONS**

	<b>TerraMatrix</b> MONTGOMERY WATSON Mining Group	Sheet 7 of 7 Sheets
		SCALE: AS NOTED DRAWING No. 7



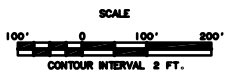


- NOTES:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLE AND POLLS ENGINEERING.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236



**Not For Construction**

#	October 2000 Revision	10/4/00	J.Pellor	K.Corsas	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART 8 PERMIT APPLICATION	12/12/97	PGC/APP	T.Smith	P.Corsar
REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

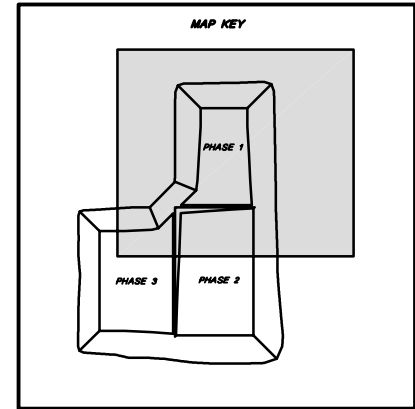
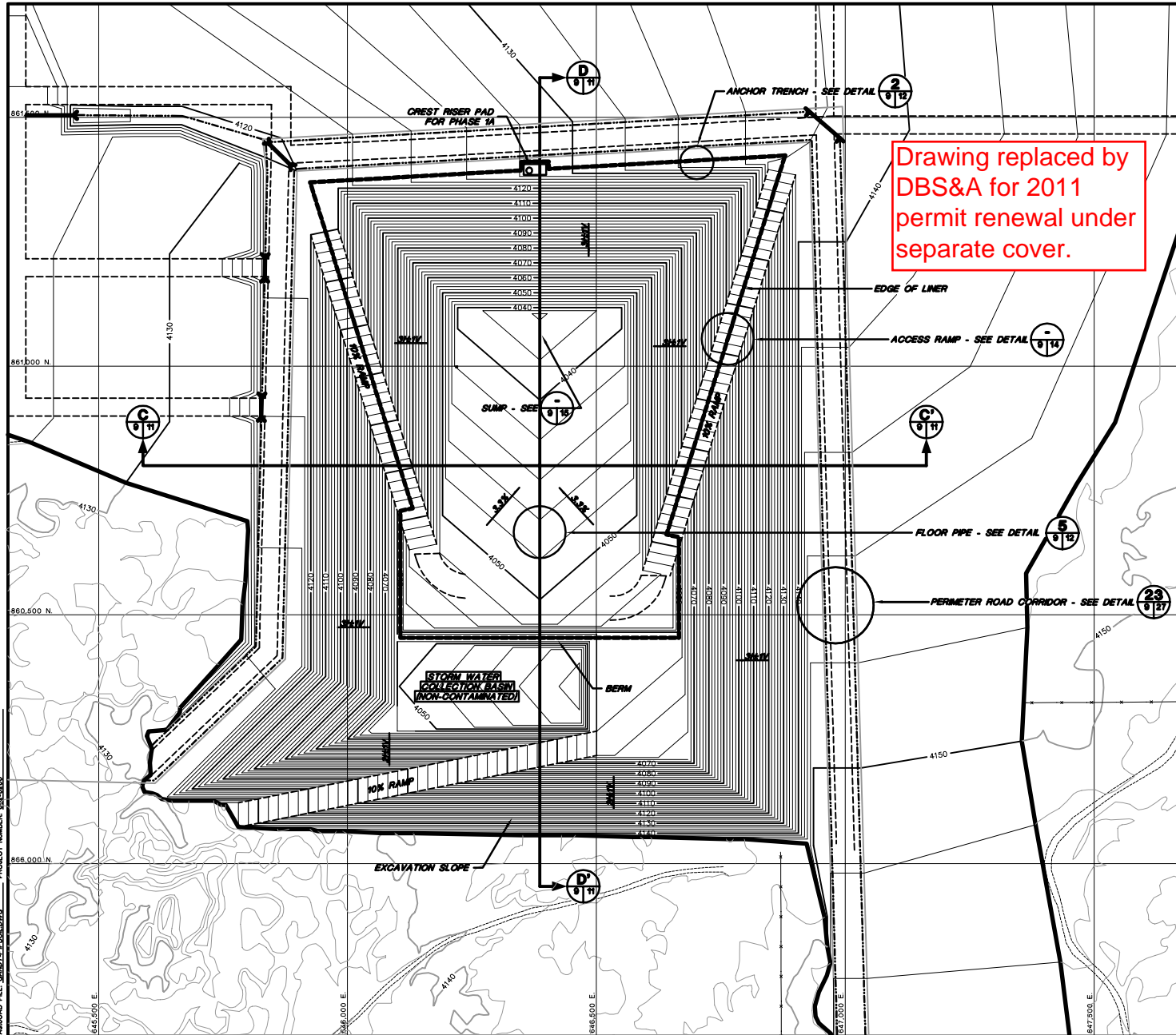
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**DETAILED EXCAVATION PLAN -  
PHASE 1A**

**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 1 Of 1 Sheets  
 SCALE: AS NOTED DRAWING No. 8

PROJECT NUMBER: 822-5200



- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1987 BY KOOGLÉ AND POULS ENGINEERING.



**PROFESSIONAL ENGINEER'S STATEMENT**  
*I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.*

Date Patrick G. Corser, NJ P.E. 12236



**Not For Construction**

#	October 2000 Revision	10/4/00	J.P.Heller	K.Gorvath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.P.Heller	T.Dunn	P.Corser
2	PART B PERMIT APPLICATION	10/10/97	PBG/JAP	T.Dunn	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

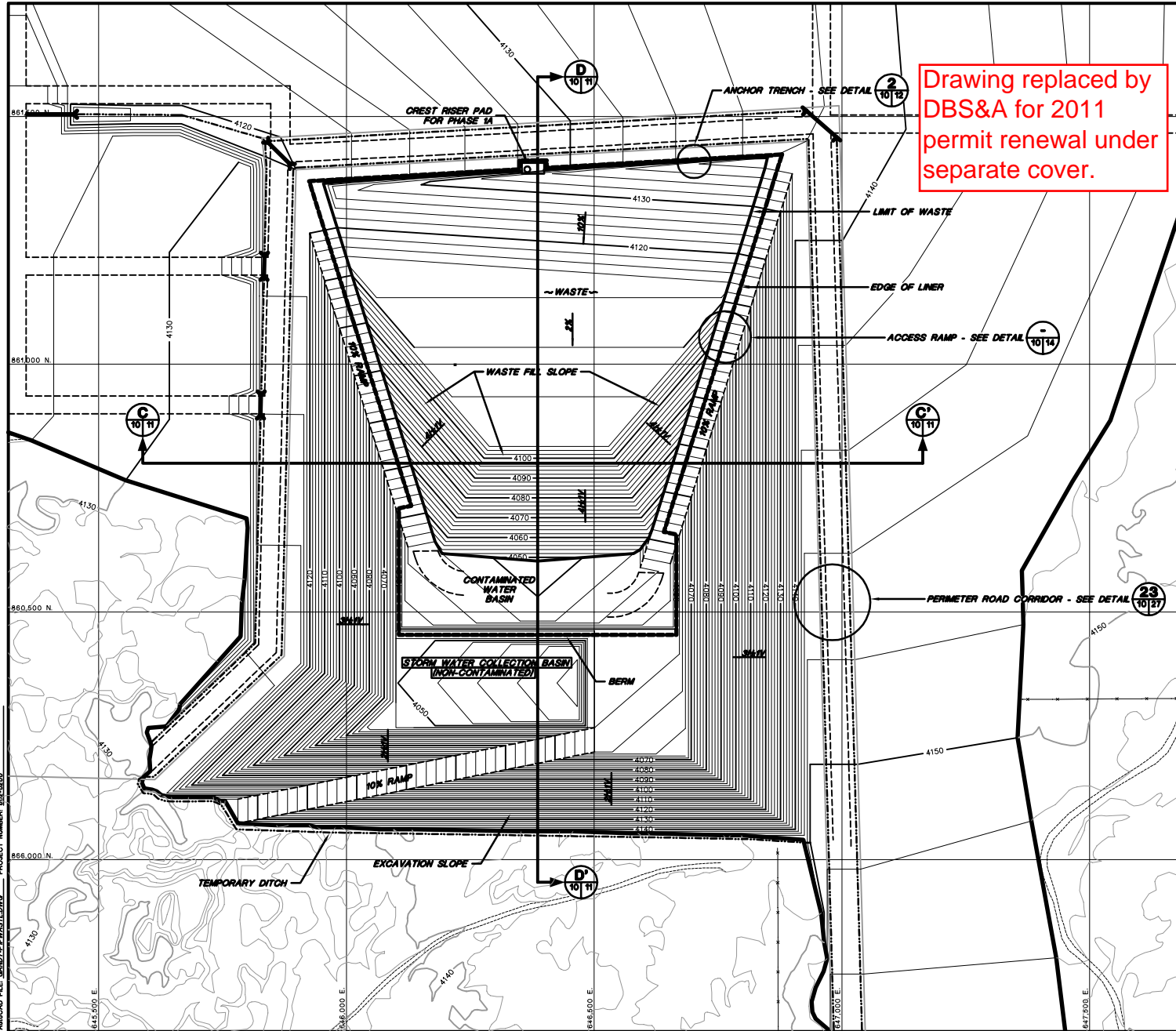
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**TOP OF PROTECTIVE SOIL LAYER - PHASE 1A**

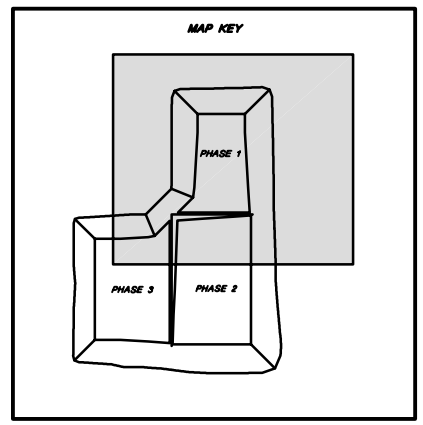


Sheet 1 of 1 Sheets  
 SCALE: AS NOTED  
 DRAWING No. 9

PROJECT NUMBER: 603-0200  
 AUC040 FILE: GARDY-PEWASTEDWG



Drawing replaced by DBS&A for 2011 permit renewal under separate cover.

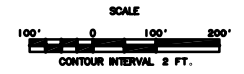


- NOTES:**
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.
  - WASTE FILL VOLUME FOR PHASE 1A: 563,200 CY



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236



**Not For Construction**

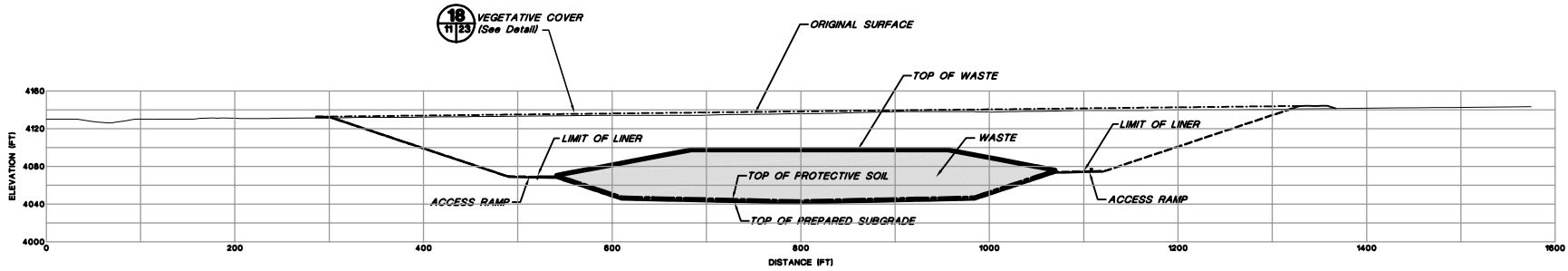
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
4	October 2000 Revision	10/11/00	J.Palmer	K.Coverth	P.Corser
3	November 1999 Update	1/22/99	J.Trommsdorff	M.Matthews	P.Corser
2	SEPTEMBER 1998 REVISION	9/21/98	P.Corser	K.Coverth	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

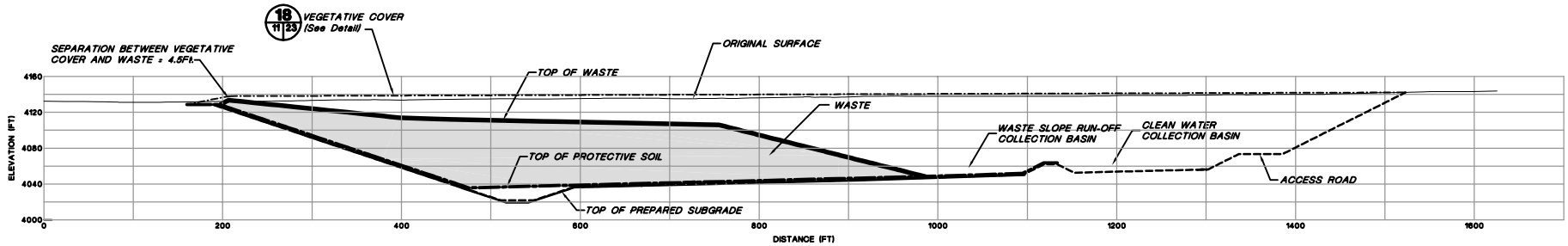
DRAWING TITLE: **FILLING PLAN - PHASE 1A**

<b>TerraMatrix</b> MONTGOMERY WATSON Mining Group	Sheet <b>f</b> Of <b>f</b> Sheets
	SCALE: AS NOTED DRAWING No. <b>10</b>

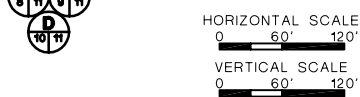
AUGCAD FILE: GANDY/PH13SEC.DWG PROJECT NUMBER: 602-0200



**PHASE 1A CROSS-SECTION C-C'**



**PHASE 1A CROSS-SECTION D-D'**



**PROFESSIONAL ENGINEER'S STATEMENT**  
*I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.*

Date Patrick G. Corser, NM P.E. 12236

- NOTES:**
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - DAILY COVER WILL CONSIST OF SOIL SPREAD ON TOP OF THE WASTE PLACEMENT AREA. MINIMUM DAILY COVER THICKNESS WILL BE APPROXIMATELY 0.5 FEET.

**Not For Construction**

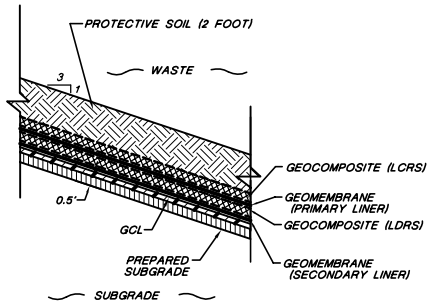
NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND CHECKED BY
1	October 2000 Revision	10/14/00	J.Palmer	K.Covath	P.Corser
2	NOVEMBER 1999 UPDATES	11/02/99	J.Trennon	M.Melikian	P.Corser
3	NOVEMBER 1999 REVISION	10/24/99	J.Palmer	T.Smith	P.Corser
4	PHASE 1 PERMIT APPLICATION	10/10/97	PGC/APD	T.Smith	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

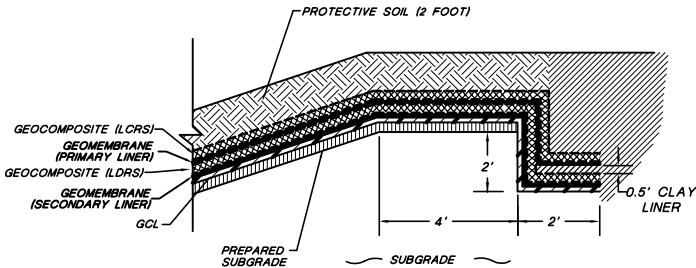
DRAWING TITLE:  
**PHASE 1A CROSS-SECTIONS**



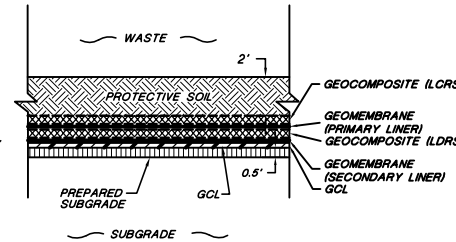
Sheet 1 Of 1 Sheets  
 SCALE: AS NOTED  
 DRAWING No. **11**



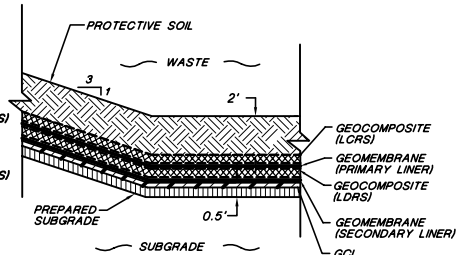
**1** **SLOPE LINER SYSTEM DETAIL**  
Not To Scale



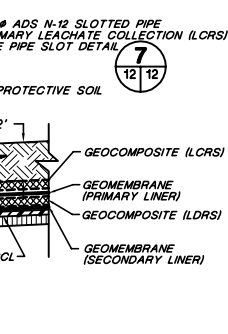
**2** **LINER ANCHOR TRENCH DETAIL**  
Not To Scale



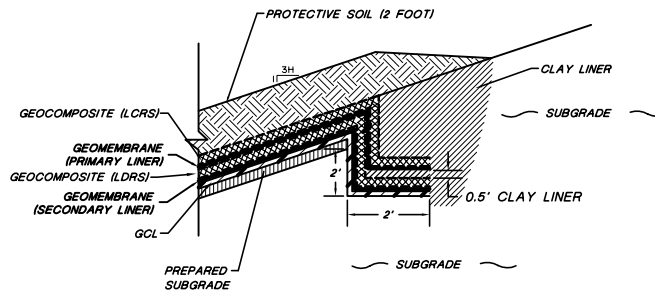
**3** **FLOOR LINER SYSTEM DETAIL**  
Not To Scale



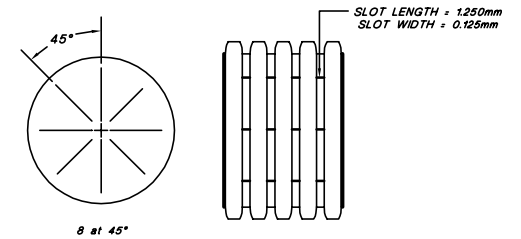
**4** **TOE OF SLOPE LINER SYSTEM DETAIL**  
Not To Scale



**5** **FLOOR PIPE DETAIL**  
Not To Scale



**6** **SLOPE ANCHOR TRENCH**  
Not To Scale



**7** **ADS N-12 PIPE SLOT DETAIL**  
Not To Scale

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
"INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

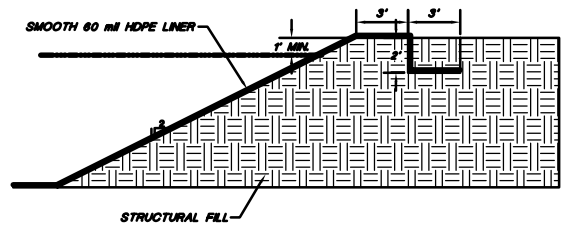
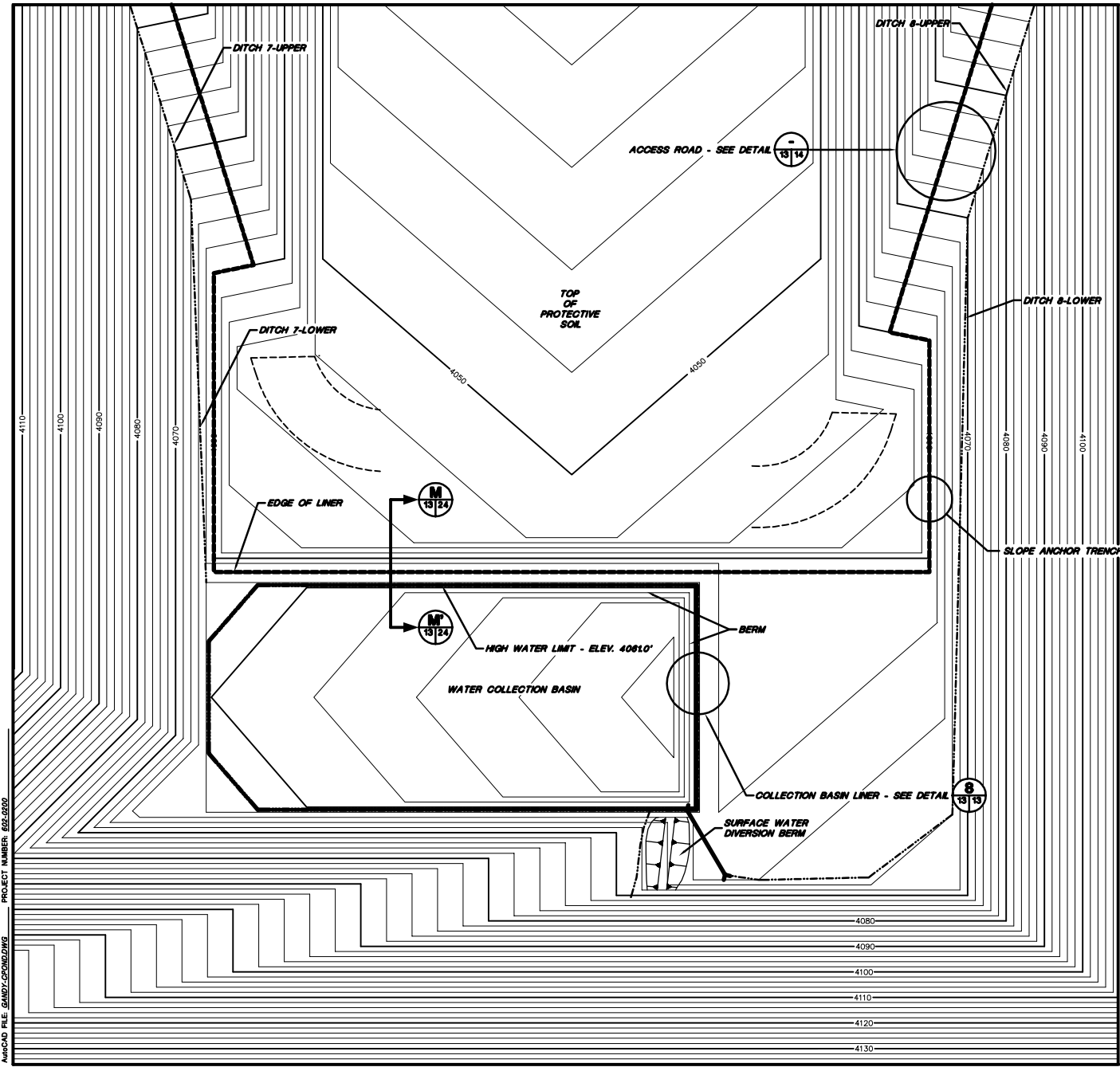
#	October 2000 Revision	10/14/00	J.Pellor	K.Corsar	P.Corsar
#	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
#	PART B PERMIT APPLICATION	12/12/97	PGC/JP	K.Corsar	P.Corsar
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**LINER DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 1 Of 1 Sheets  
SCALE: As Shown  
DRAWING No. **12**



**8 COLLECTION BASIN BERM DETAIL**  
NOT TO SCALE

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
"INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corcoran, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.  
Date Patrick G. Corcoran, MI P.E. 12236

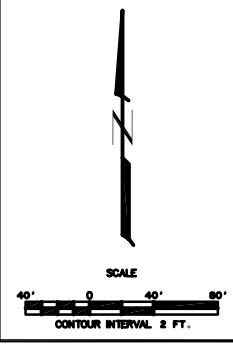
**Not For Construction**

2	October 2000 Revision	10/14/00	J.Pellor	K.Clarck	P.Corcoran
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corcoran
0	PART 8 PERMIT APPLICATION	12/12/97	PGC/JP	T.Smith	P.Corcoran
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

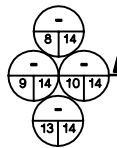
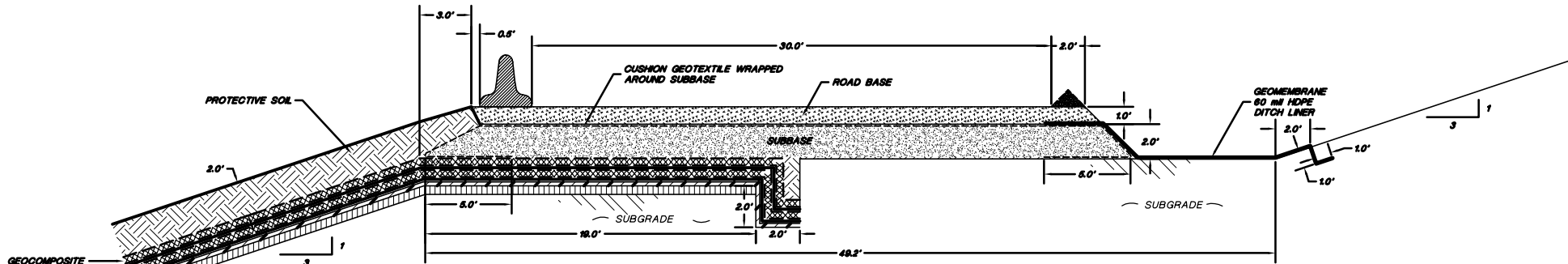
DRAWING TITLE: **COLLECTION BASIN  
PLAN AND DETAILS**

<b>TerraMatrix</b> MONTBOMERY WATSON Mining Group	Sheet <u>1</u> Of <u>1</u> Sheets
	SCALE: AS NOTED DRAWING No. <b>13</b>

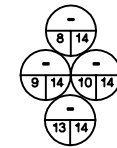
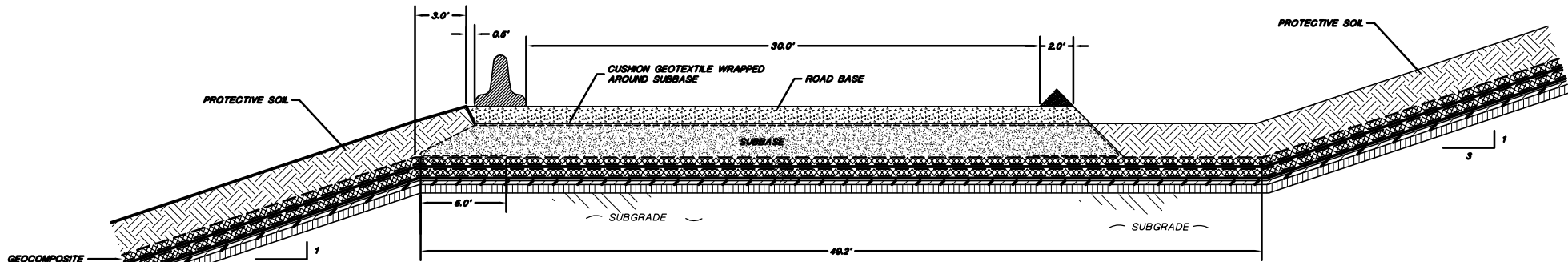
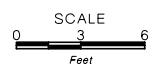


PROJECT NUMBER 602-0200  
AutoCAD FILE: GANDY-CORPORATING

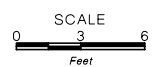
PROJECT NUMBER: 602-0200  
AUTOCAD FILE: JAMPZ-DETAL.DWG



**LANDFILL ACCESS RAMP (Interim Fill Stage)**



**LANDFILL ACCESS RAMP (Final Fill Stage)**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

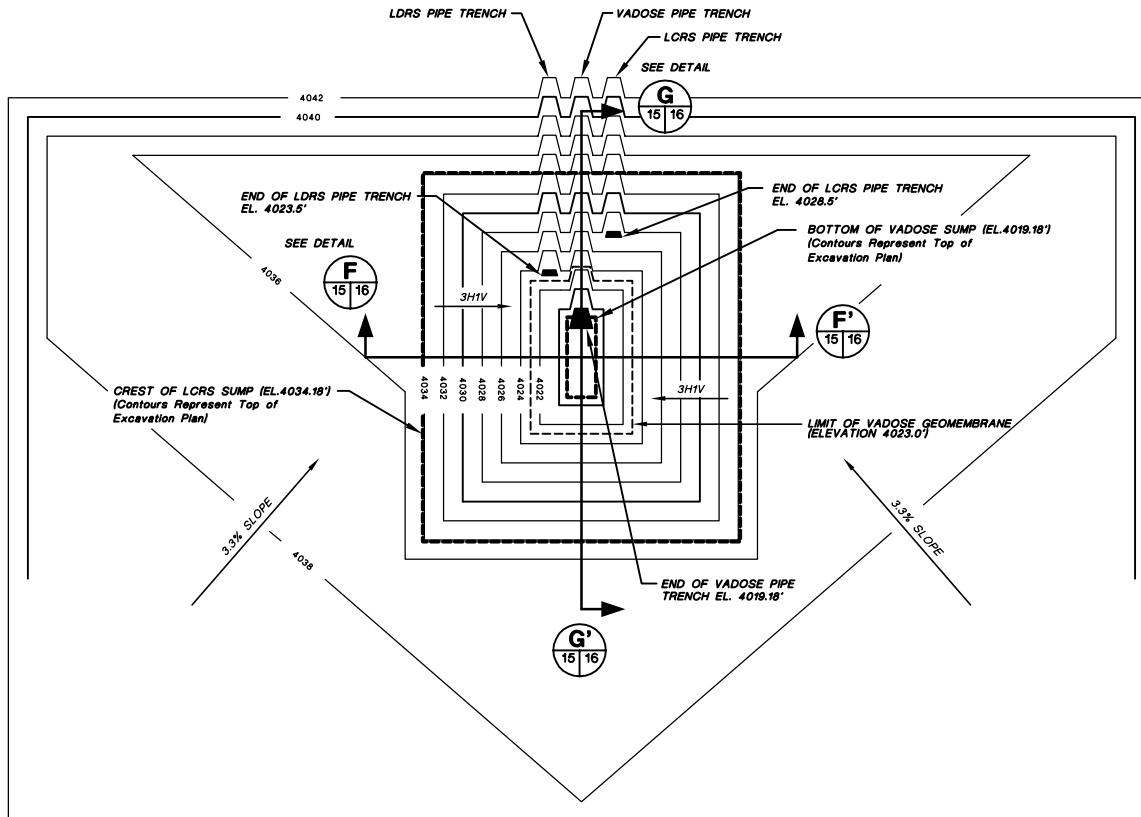
2	October 2008 Revision	10/14/08	J.Pellor	K.Corsick	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART 0 PERMIT APPLICATION	12/18/97	PGC/JP	E.Blanco	P.Corsar
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

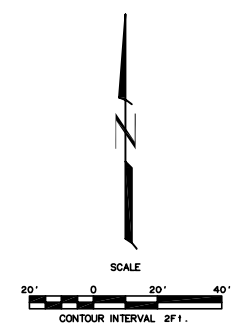
DRAWING TITLE:  
**TYPICAL LANDFILL ACCESS RAMP  
DETAILS**

	Sheet <u>  </u> of <u>  </u> Sheets	
	SCALE:	DRAWING No.
AS NOTED		<b>14</b>

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".



**SUMP PHASE 1A - PLAN VIEW**



**Not For Construction**

1	October 2000 Revision	10/1/00	J.Pellor	K.Corsar	P.Corsar
2	PART B PERMIT APPLICATION	12/12/97	PGC/PP	T.Shaw	P.Corsar
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**SUMP PLAN VIEW - PHASE 1A**

**TerraMatrix**  
MONTGOMERY WATSON  
Mapping Group

Sheet 1 Of 1 Sheets  
SCALE: See Scale Bar  
DRAWING No. **15**

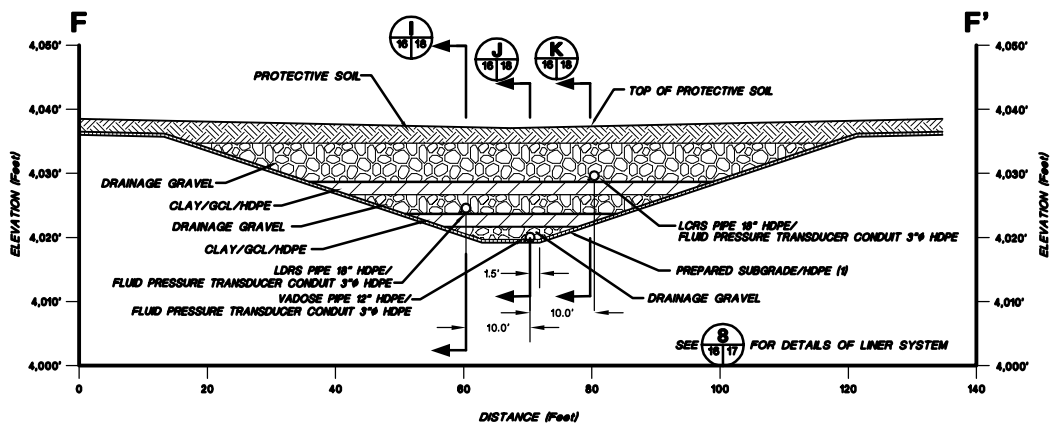


**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236

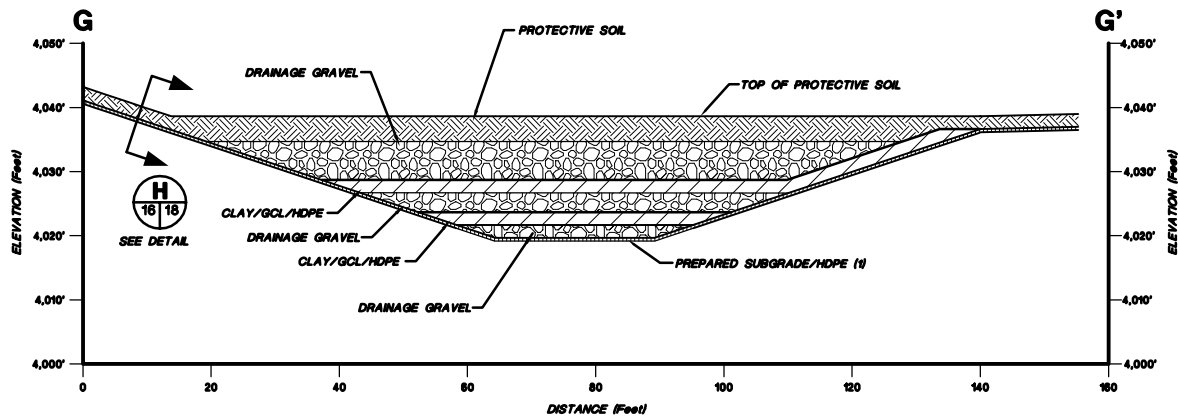
- NOTES:**
1. THE V-TRENCH ON THE FLOOR OF LANDFILL (SEE DETAIL **S-S'**) WILL EXTEND INTO SUMP TO ELEVATION OF THE LDRS PIPE 4023.5. THE PIPE FROM THE FLOOR WILL EXTEND ACROSS THE BASE OF THE SUMP.
  2. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".





**F SUMP - CROSS-SECTION F-F'**

HORIZONTAL SCALE  
 0 10.0' 20.0'  
 VERTICAL SCALE  
 0 10.0' 20.0'



**G SUMP - CROSS-SECTION G-G'**

HORIZONTAL SCALE  
 0 10.0' 20.0'  
 VERTICAL SCALE  
 0 10.0' 20.0'

NOTE:  
 FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
 "INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2008 Revisions	10/14/08	J.Palmer	K.Carrish	P.Corser
1	NOVEMBER 1998 REPORT	10/29/98	J.Palmer	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	12/18/97	PQC/PP	E.Simmons	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

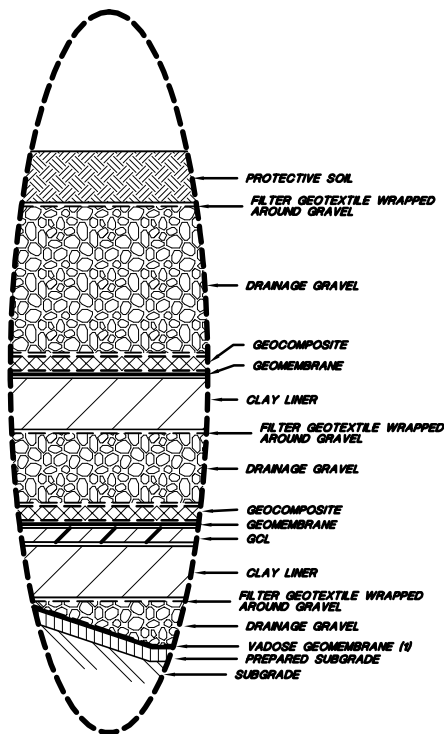
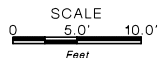
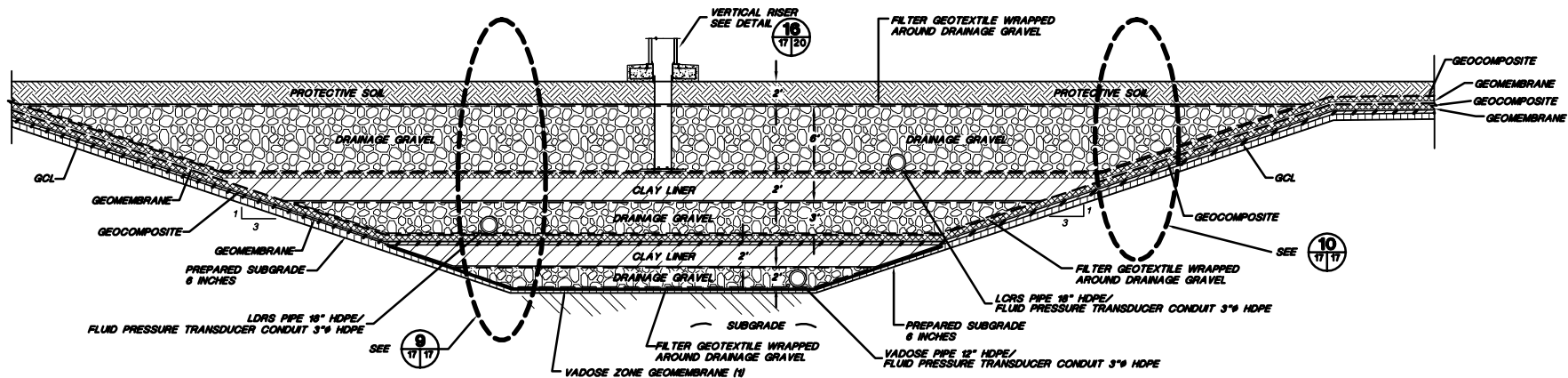
**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**SUMP CROSS-SECTIONS - PHASE 1A**

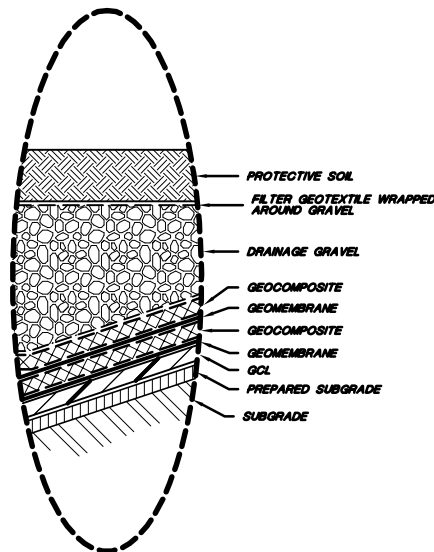
**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 1 Of 1 Sheets  
 SCALE: DRAWING No. 16  
 See Scale Bar

AUTOCAD FILE: SUMPPLAN15E2C.DWG PROJECT NUMBER: 602-0200



Not To Scale



Not To Scale

- NOTES:
1. THE VADOSE GEOMEMBRANE EXTENDS TO LIMITS OF THE SECONDARY CLAY LINER.
  2. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No 2, "INDEX, LEGEND AND GENERAL NOTES".

**Not For Construction**

2	October 2008 Reissue	10/4/08	J.Palmer	K.Corsar	P.Corsar	
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corsar	
0	PART B PERMIT APPLICATION	02/21/97	PQC/JP	E.Shoen	P.Corsar	
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY	APPROVED BY

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE: **TYPICAL SUMP DETAIL CROSS-SECTION**

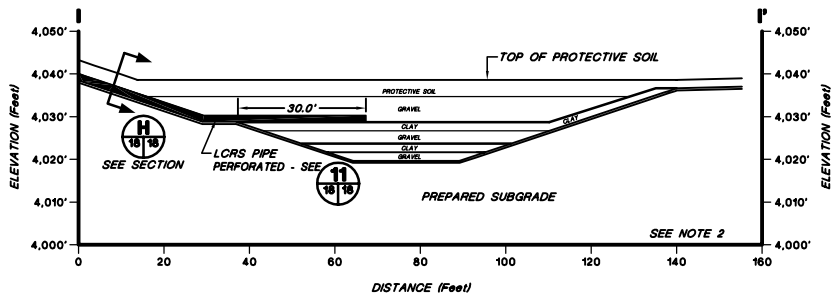


**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corsar, NJ P.E. 12236

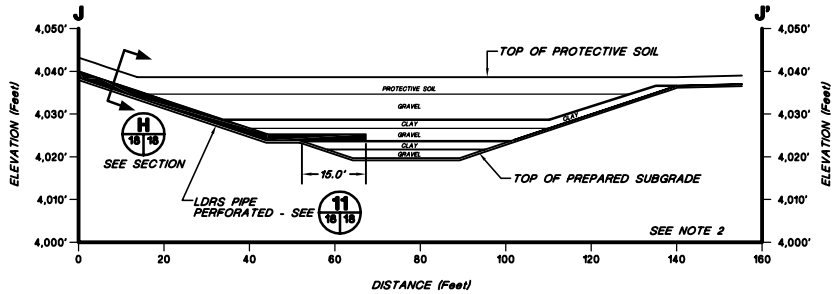
**TerraMatrix**  
MONTGOMERY WATSON  
Mapping Group

Sheet 1 of 1 Sheets  
SCALE: Not To Scale  
DRAWING No. 17



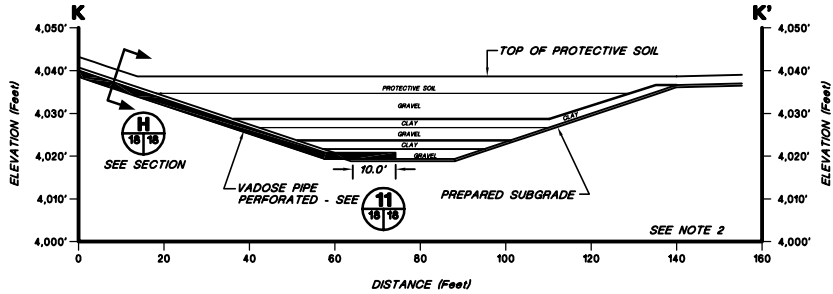
**LCRS PIPE PLACEMENT IN SUMP**

HORIZONTAL SCALE  
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VERTICAL SCALE  
0 15' 30'



**LDRS PIPE PLACEMENT IN SUMP**

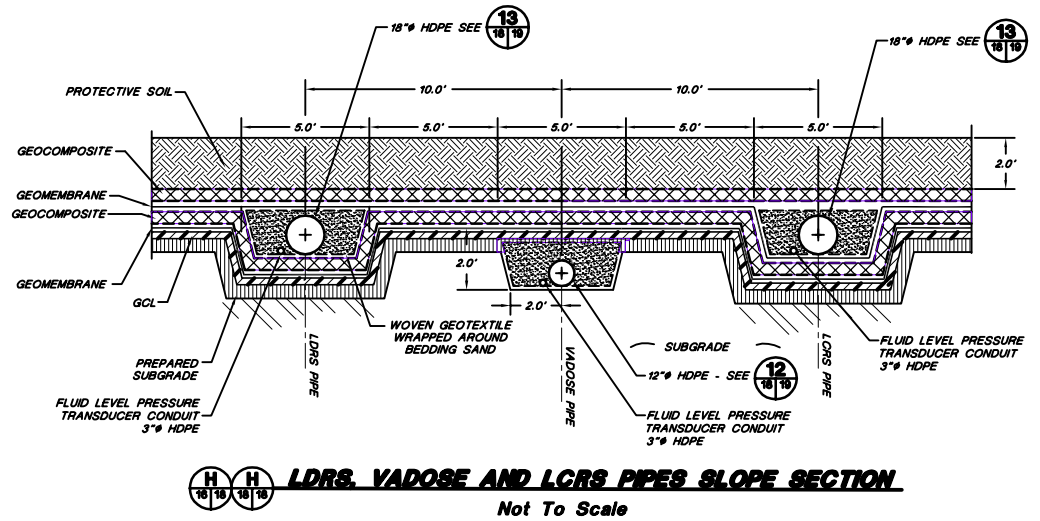
HORIZONTAL SCALE  
0 15' 30'  
VERTICAL SCALE  
0 15' 30'



**VADOSE PIPE PLACEMENT IN SUMP**

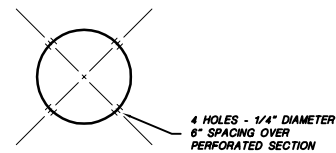
HORIZONTAL SCALE  
0 15' 30'  
VERTICAL SCALE  
0 15' 30'

- NOTE:  
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".  
2. SEE **8** FOR LINER DETAILS IN SUMP.



**LDRS, VADOSE AND LCRS PIPES SLOPE SECTION**

Not To Scale



**PIPE PERFORATION DETAIL**

Not To Scale



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

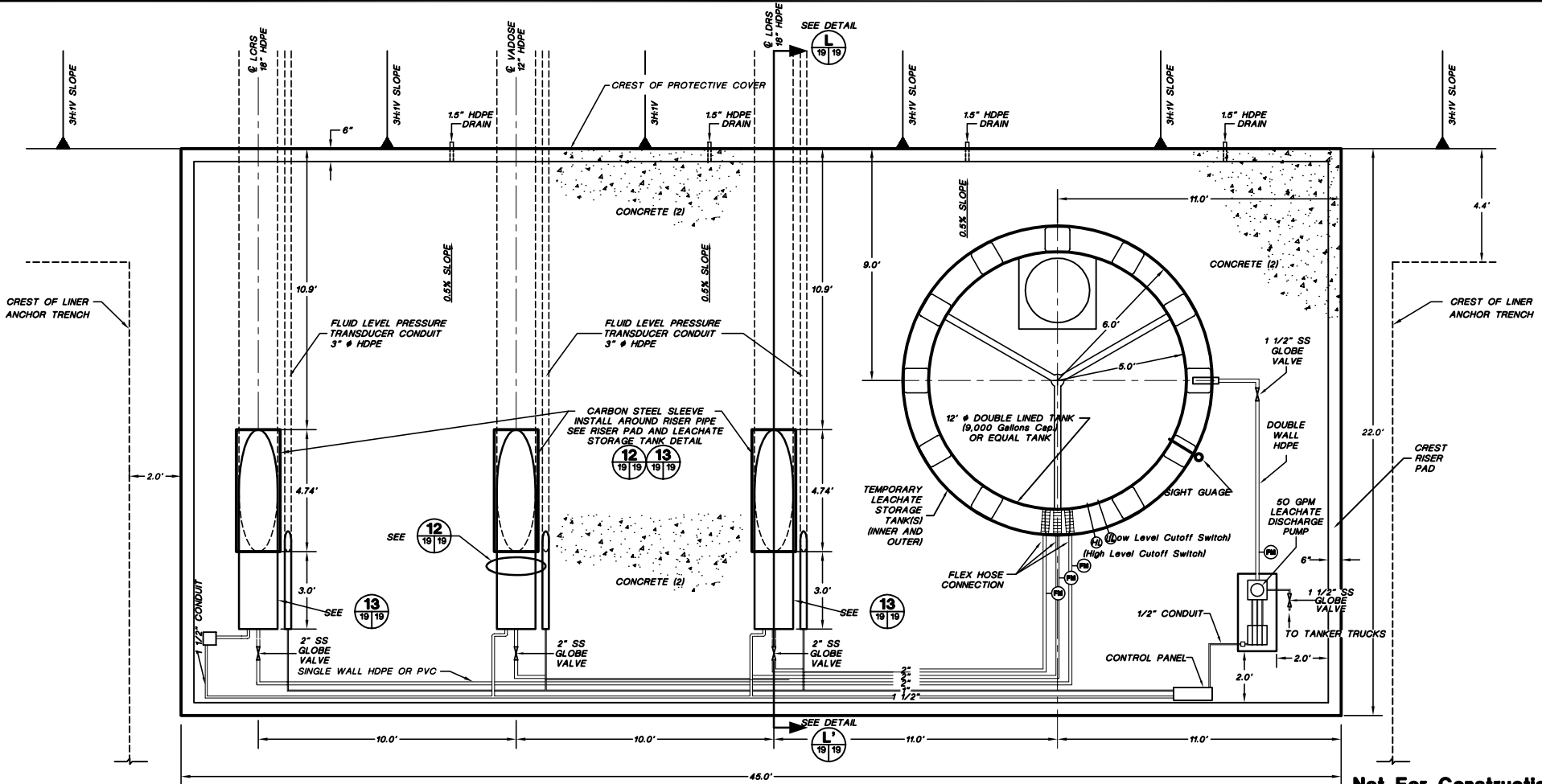
2	October 2008 Reissue	10/4/08	J.Palmer	K.Coarasa	P.Coarasa
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Coarasa
0	PART B PERMIT APPLICATION	07/21/97	PGC/JP	K.Coarasa	P.Coarasa
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**VADOSE, LDRS, LCRS  
CROSS-SECTIONS AND DETAILS**

	<b>TerraMatrix</b>	Sheet <u>  </u> Of <u>  </u> Sheets
	MONTEGOMERY WATSON Mining Group	SCALE: DRAWING No. See Scale Bar <b>18</b>

PROJECT NUMBER: 602-0200  
AutoCAD FILE: 029A157.DWG



**CREST RISER PAD AND LEACHATE STORAGE TANK - PLAN VIEW**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

- NOTE:**
- 1) FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - 2) FOR CONCRETE DETAILS SEE DRAWING 45.
  - 3) PIPING SYSTEM WILL COMPLY WITH API PUBLICATION 1616 (NOVEMBER 1979) OR ANSI STANDARD B 31.2 AND ANSI STANDARD B 31.4.

**Not For Construction**

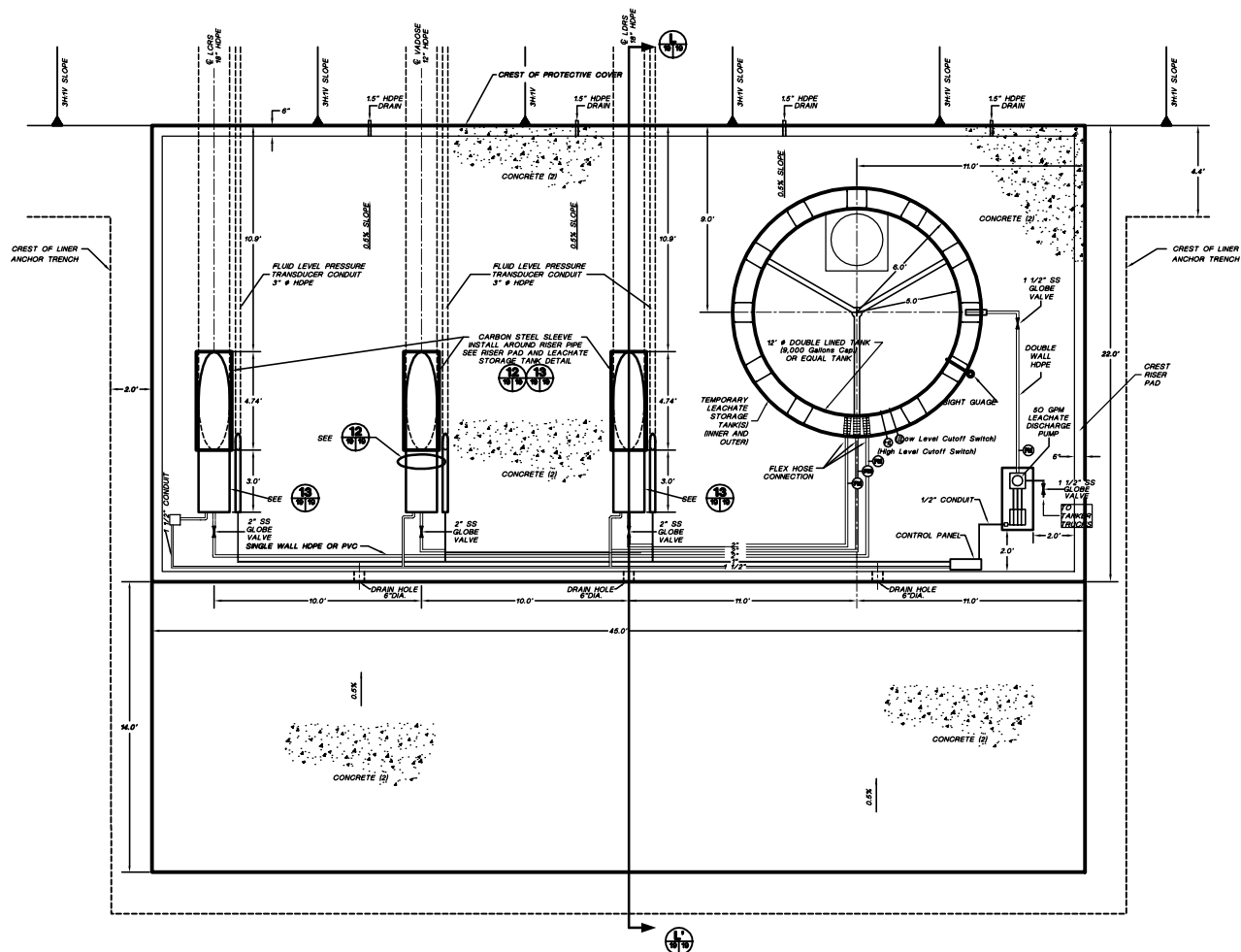
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY
1	October 2000 Revision	10/14/00	J.Pellor	K.Cornish	P.Corser
2	SEPTEMBER 1998 REVISION	09/01/98	P.Corser	T.Smith	P.Corser
3	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corser
4	PART B PERMIT APPLICATION	12/18/97	PGC/JP	M.Matthew	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

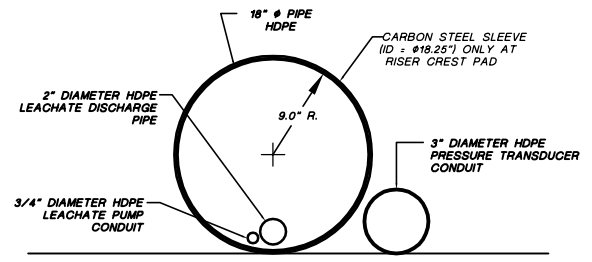
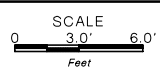
DRAWING TITLE:  
**CREST RISER PAD AND LEACHATE STORAGE TANK PLAN VIEW AND CROSS-SECTIONS**

<b>Terramatrix</b> MONTGOMERY WATSON Mining Group	Sheet <u>1</u> Of <u>3</u> Sheets
	SCALE: <u>See Scale Bar</u> DRAWING No. <u>19</u>

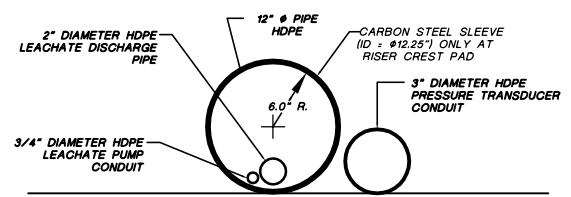
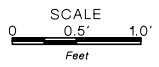
PROJECT NUMBER: 602-0200



**CREST RISER PAD AND LEACHATE STORAGE TANK - PLAN VIEW**



**13 LCRS AND LDRS RISER PIPE DETAIL**



**12 VADOSE RISER PIPE DETAIL**



**Not For Construction**

#	October 2000 Revision	10/4/00	J.Pattor	K.Cornish	P.Corsar
1	November 1999 Update	11/10/99	J.Trucano	M.Melikian	P.Corsar
2	September 1999 Revision	09/09/99	P.Corsar	T.Sam	P.Corsar
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CREST RISER PAD AND LEACHATE STORAGE TANK PLAN VIEW AND CROSS-SECTIONS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mapping Group

Sheet 2 Of 3 Sheets  
SCALE: See Scale Bar  
DRAWING No. 19

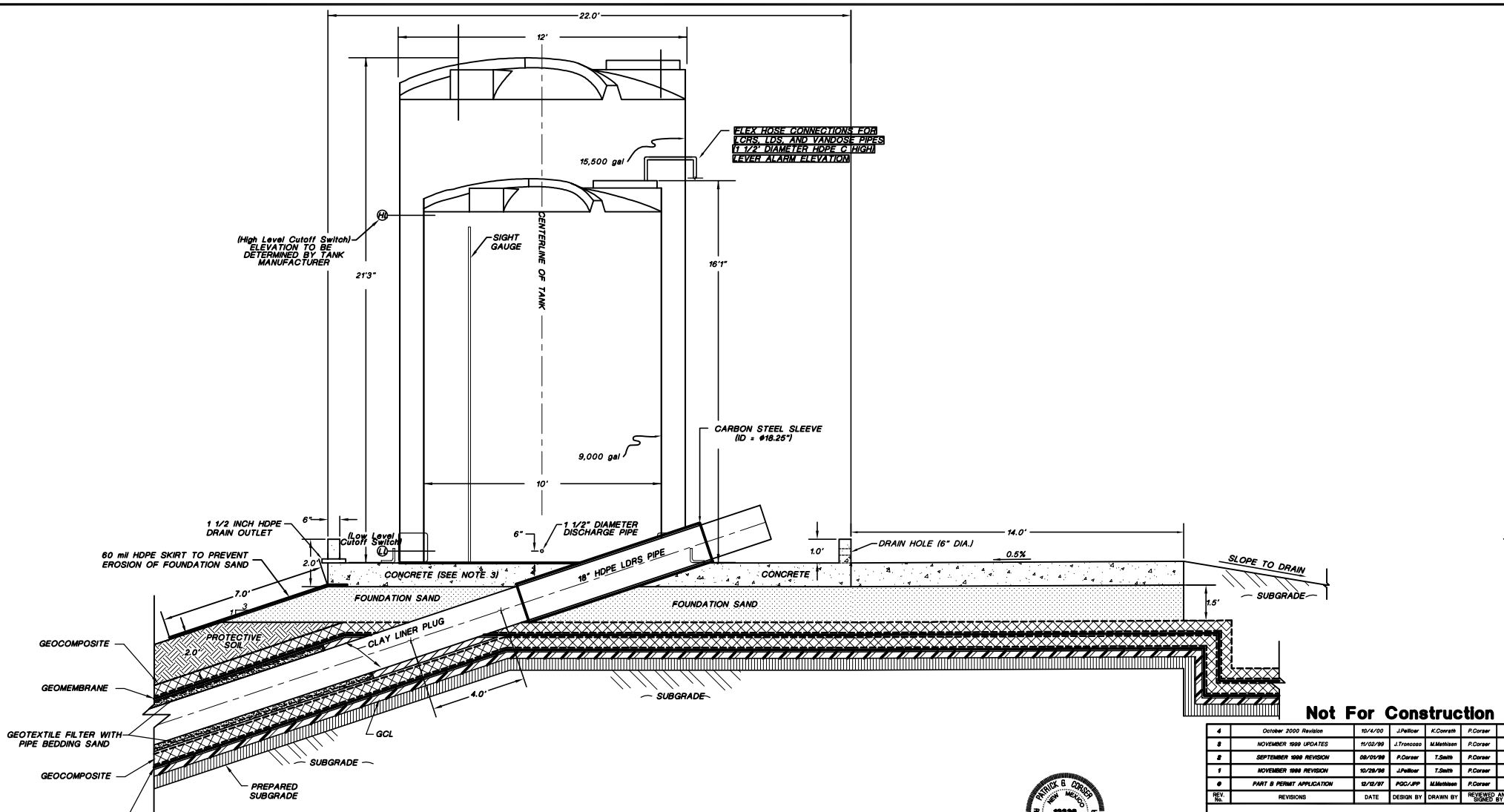


**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

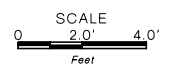
Date Patrick G. Corsar, NM P.E. 12236

- NOTE:**
- 1) FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - 2) FOR CONCRETE DETAILS SEE DRAWING 45.
  - 3) PIPING SYSTEM WILL COMPLY WITH API PUBLICATION 1615 (NOVEMBER 1979) OR ANSI STANDARD B 31.2 AND ANSI STANDARD B 31.4.

PROJECT NUMBER: 602-0200  
AUTOCAD FILE: C9A1.S7-25SEC.DWG



**CREST RISER PAD AND LEACHATE STORAGE TANK CROSS-SECTION**



- NOTE:**
- 1) FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - 2) PIPE CONNECTION AND TANK ACCESSORIES TO BE SPECIFIED BY TANK SUPPLIER.
  - 3) FOR CONCRETE DETAILS SEE DRAWING 45.



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.  
Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND
4	October 2000 Revision	10/4/00	J.Peltier	K.Covatta	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosta	M.Melham	P.Corser
2	SEPTEMBER 1998 REVISION	09/01/98	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Peltier	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	02/20/97	PGC/JP	M.Melham	P.Corser

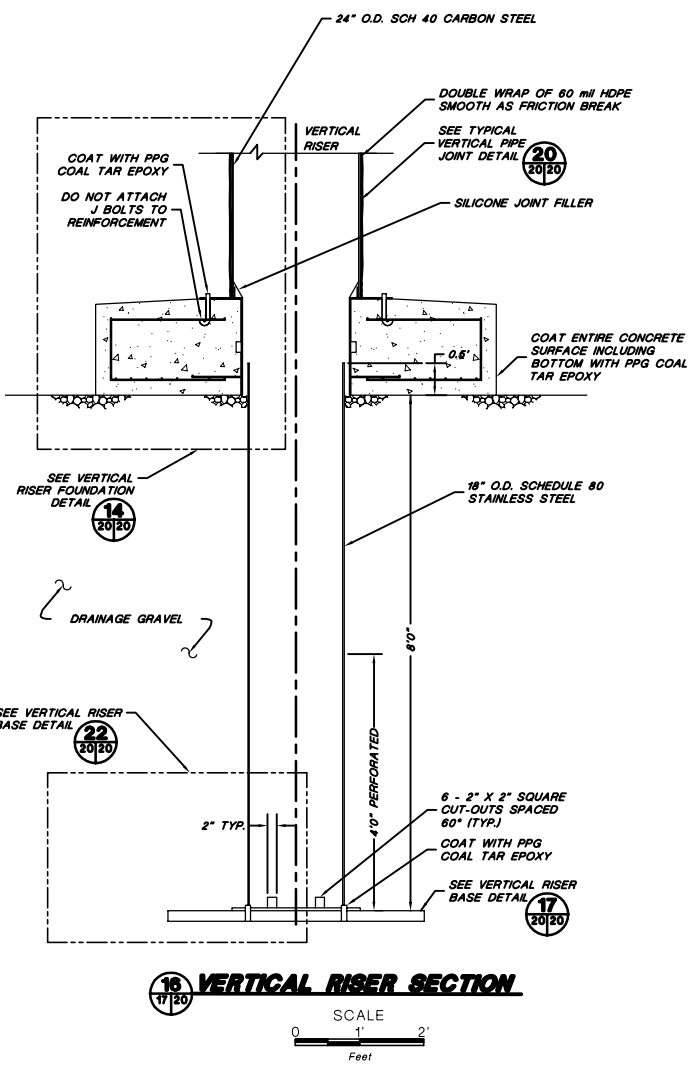
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CREST RISER PAD AND LEACHATE STORAGE TANK PLAN VIEW AND CROSS-SECTIONS**

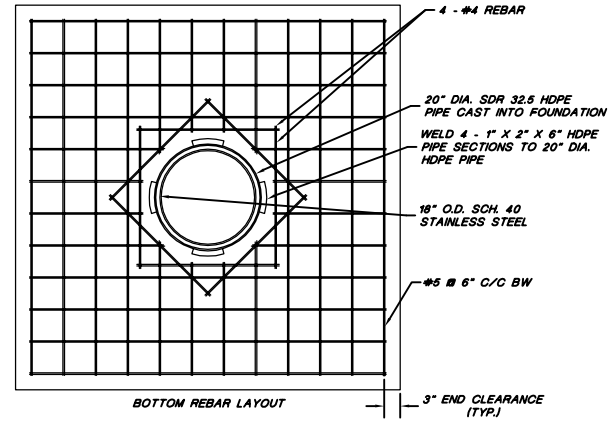
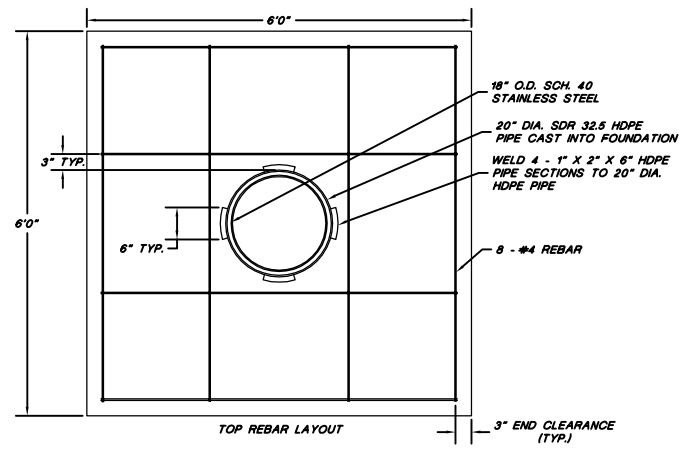
**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet **3** Of **3** Sheets  
SCALE: See Scale Bar  
DRAWING No. **19**

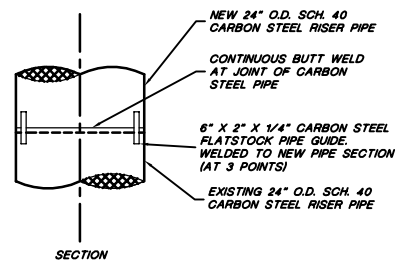
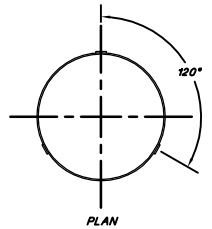
PROJECT NUMBER: 602-0200  
AutoCAD FILE: 602-SPR.DWG



**16 VERTICAL RISER SECTION**  
SCALE  
0 1' 2'  
Feet



**21 VERTICAL RISER BASE DETAIL**  
SCALE  
0 1' 2'  
Feet



**20 TYPICAL VERTICAL RISER PIPE JOINT**  
SCALE  
0 1' 2'  
Feet



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Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2008 Reissue	10/14/08	J.Palmer	K.Clarke	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	12/12/97	PGC/PP	E.Schaefer	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

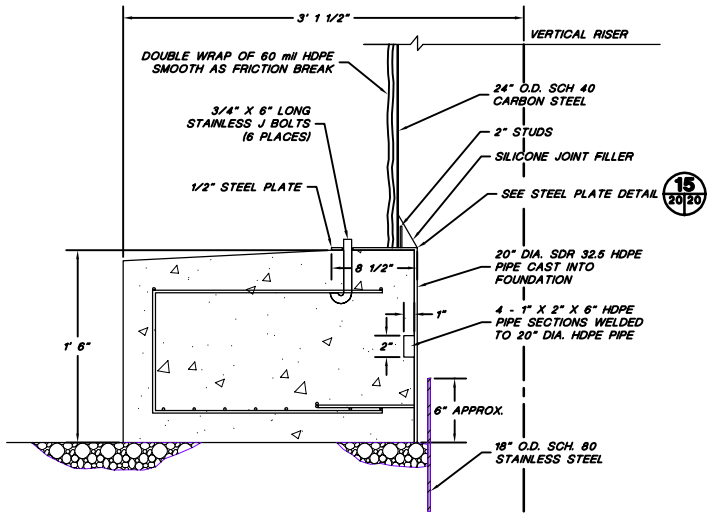
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**VERTICAL RISER DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

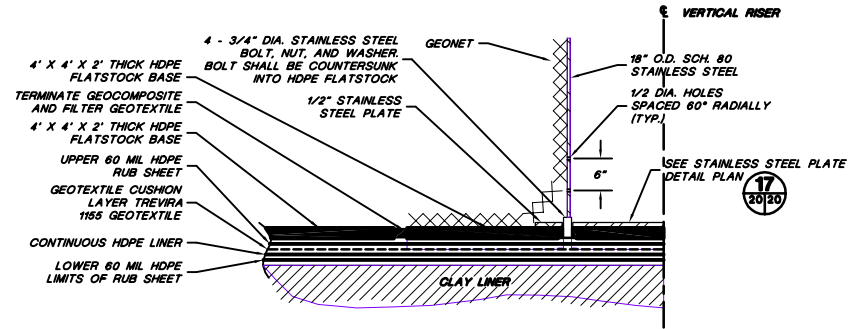
Sheet 1 of 2 Sheets  
SCALE: As Noted  
DRAWING No. 20

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
"INDEX, LEGEND AND GENERAL NOTES".



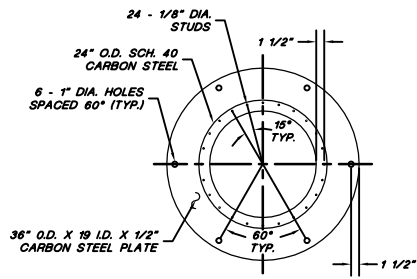
**14 VERTICAL RISER FOUNDATION DETAIL**

SCALE  
0 0.5 1'  
Feet



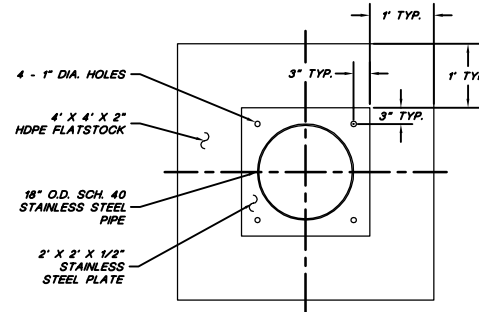
**22 VERTICAL RISER BASE DETAIL**

SCALE  
0 0.5 1'  
Feet



**15 STEEL PLATE DETAIL**

SCALE  
0 1' 2'  
Feet



**17 STAINLESS STEEL PLATE DETAIL**

SCALE  
0 1' 2'  
Feet



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Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2008 Reissue	10/4/08	J.Pellor	K.Clarke	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	12/12/97	PQC/LJP	E.Simons	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

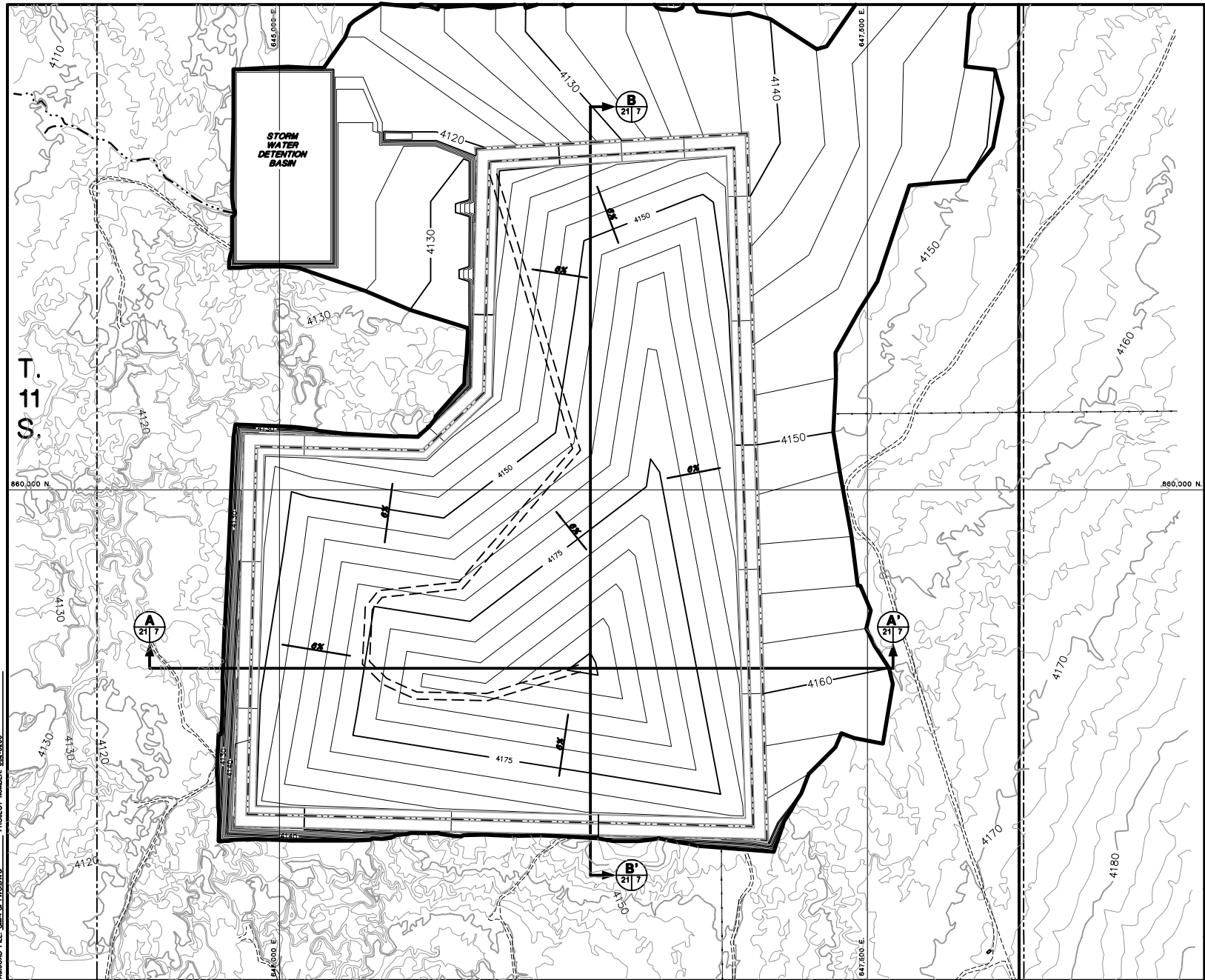
DRAWING TITLE:  
**VERTICAL RISER DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 2 Of 2 Sheets  
SCALE: As Noted  
DRAWING No. 20

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".





- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.



**PROFESSIONAL ENGINEER'S STATEMENT**  
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Date Patrick G. Corser, NM P.E. 12236



CONTOUR INTERVAL 6 FT.  
 SURFACE TOPOGRAPHY CONTOUR INTERVAL 2 FT.

**Not For Construction**

#	October 2000 Revision	10/11/00	J.Palmer	K.Gavash	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corser
2	PART 2 PERMIT APPLICATION	12/12/97	POL/APP	T.Smith	P.Corser
REV	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND SIGNED BY

**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

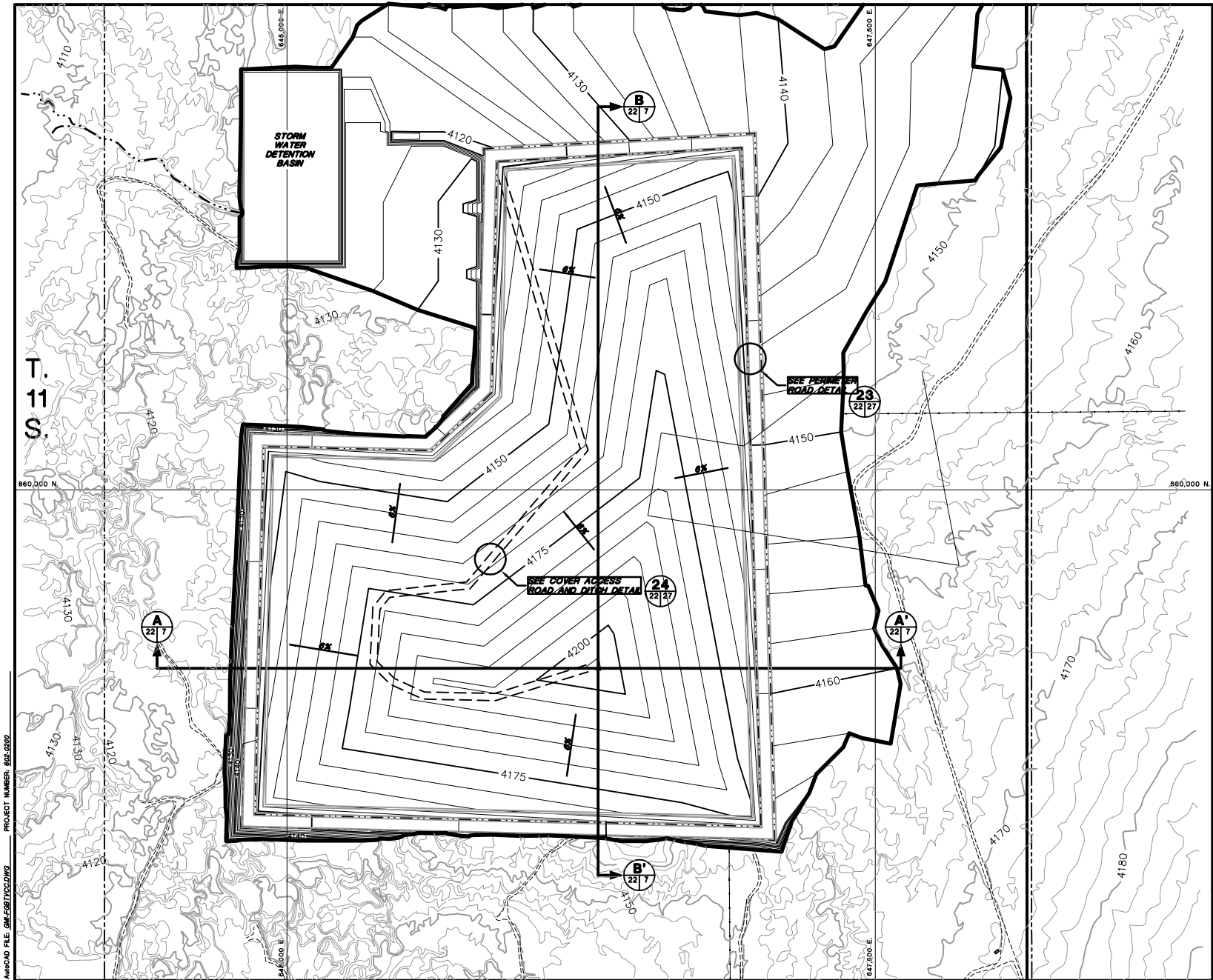
DRAWING TITLE:  
**FINAL GRADING PLAN -  
 TOP OF WASTE CONTOURS**

**Terramatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 1 Of 1 Sheets  
 SCALE: AS NOTED  
 DRAWING No. **21**

T.  
11  
S.

PROJECT NUMBER: 002-0200  
 AUCADO FILE: 0M-EG21JDCDW2

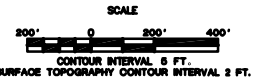


- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLER AND POULS ENGINEERING.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236



**Not For Construction**

#	October 2000 Revision	10/1/00	J.P.Heller	K.Clarke	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.P.Heller	T.Smith	P.Corser
2	PART 2 PERMIT APPLICATION	12/12/97	P.G.C./J.P.H.	T.Smith	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND SIGNED BY

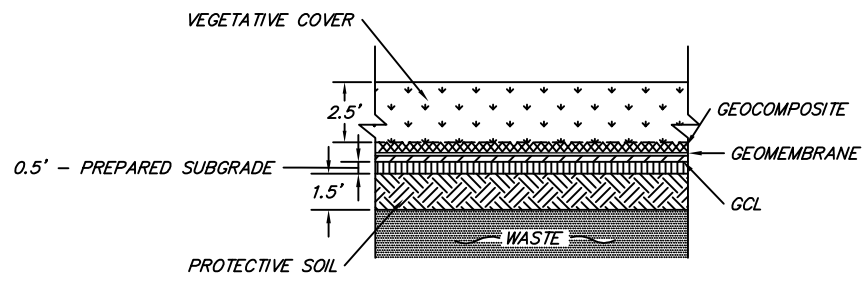
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**FINAL GRADING PLAN - TOP OF  
VEGETATIVE COVER CONTOURS**

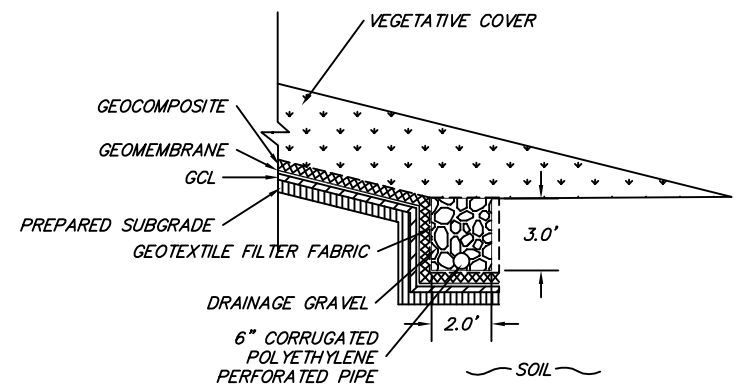
**Terramatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 7 Of 7 Sheets  
 SCALE: AS NOTED DRAWING No. **22**

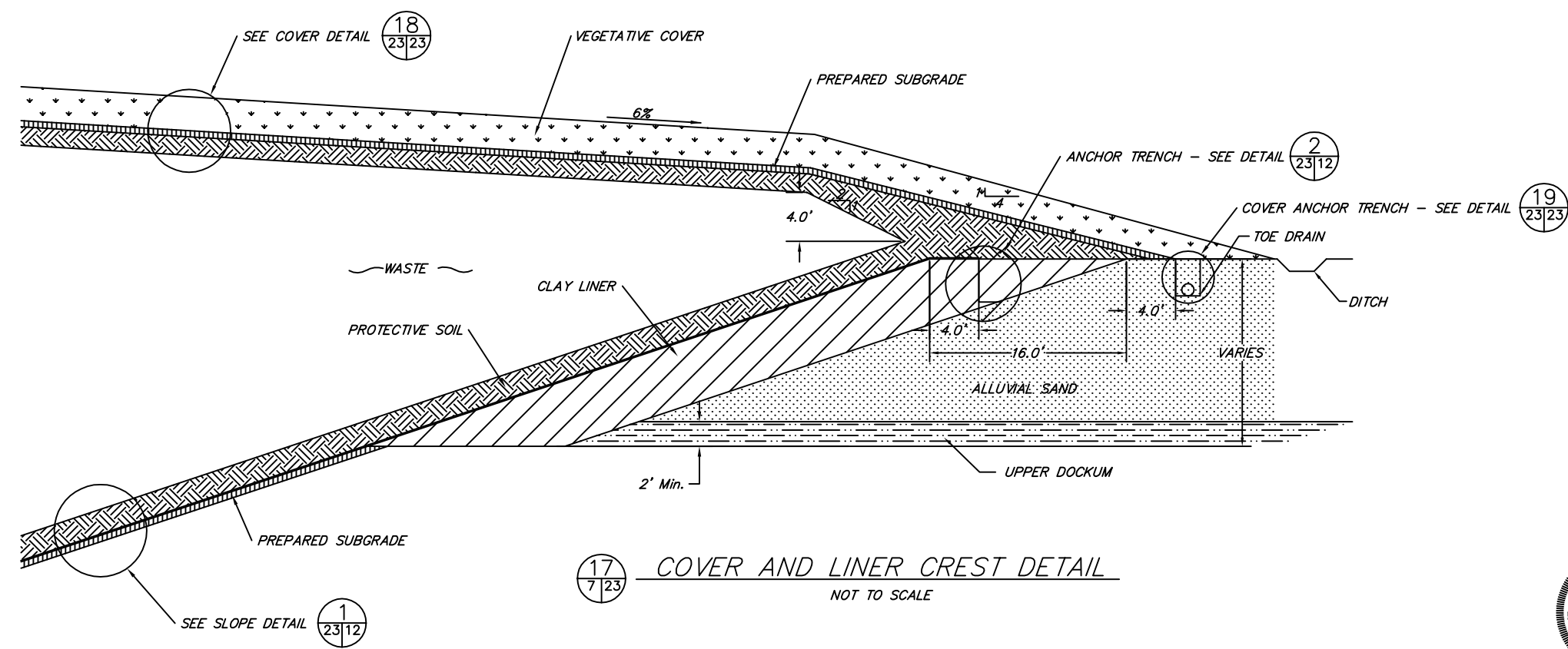
PROJECT NUMBER: 602-0200  
 AUTOCAD FILE: 04M-602702C.DWG



18 COVER DETAIL  
23/23 NOT TO SCALE



19 COVER ANCHOR TRENCH DETAIL  
23/23 NOT TO SCALE



17 COVER AND LINER CREST DETAIL  
7/23 NOT TO SCALE

Drawing recreated from source AutoCAD file to replace graphic containing omissions in 2002 permit files.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corsar
2	SEPTEMBER 1999 REVISION	9/21/99	P.Corsar	K.Conrath	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellicer	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corsar



PROFESSIONAL ENGINEER'S STATEMENT  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236

TRIASSIC PARK  
WASTE DISPOSAL FACILITY

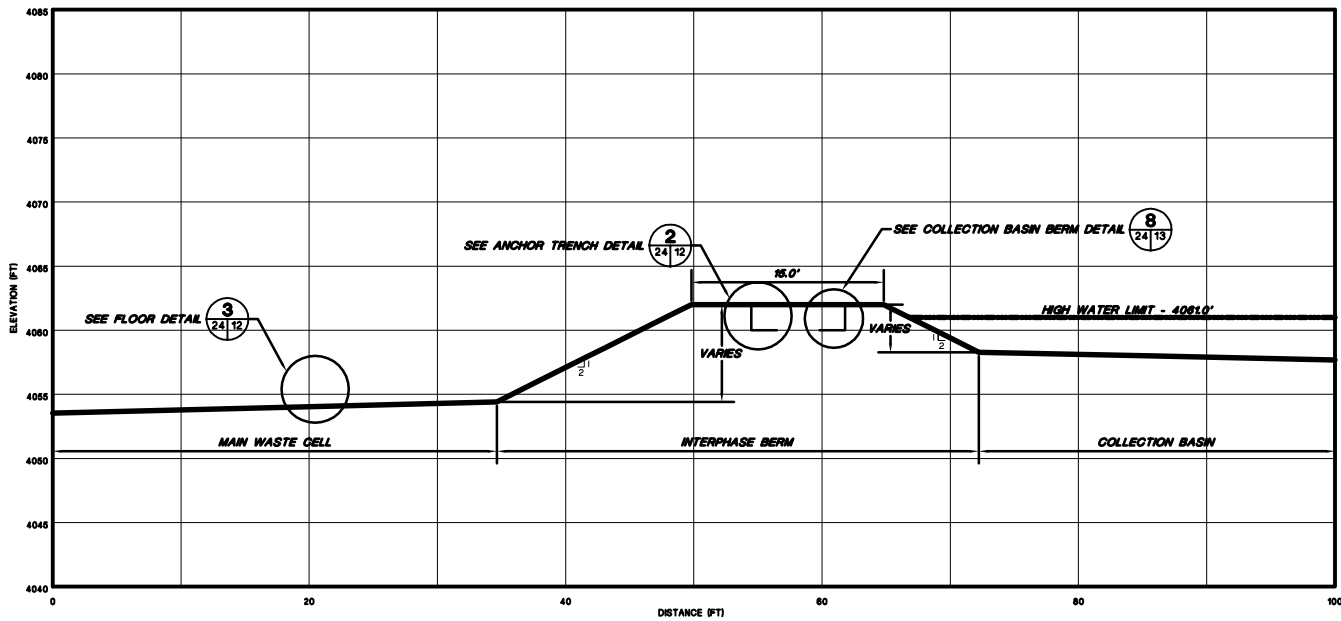
DRAWING TITLE:  
FINAL COVER DETAILS



Sheet 1 Of 1 Sheets  
SCALE: AS NOTED  
DRAWING No. 23

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

AutoCAD FILE: GANDY-COVERDETAIL PROJECT NUMBER: 602-0200



**M INTERPHASE BERM CROSS-SECTION M**  
13124

HORIZONTAL SCALE  
0 5 10  
VERTICAL SCALE  
0 5 10

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2.  
"INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

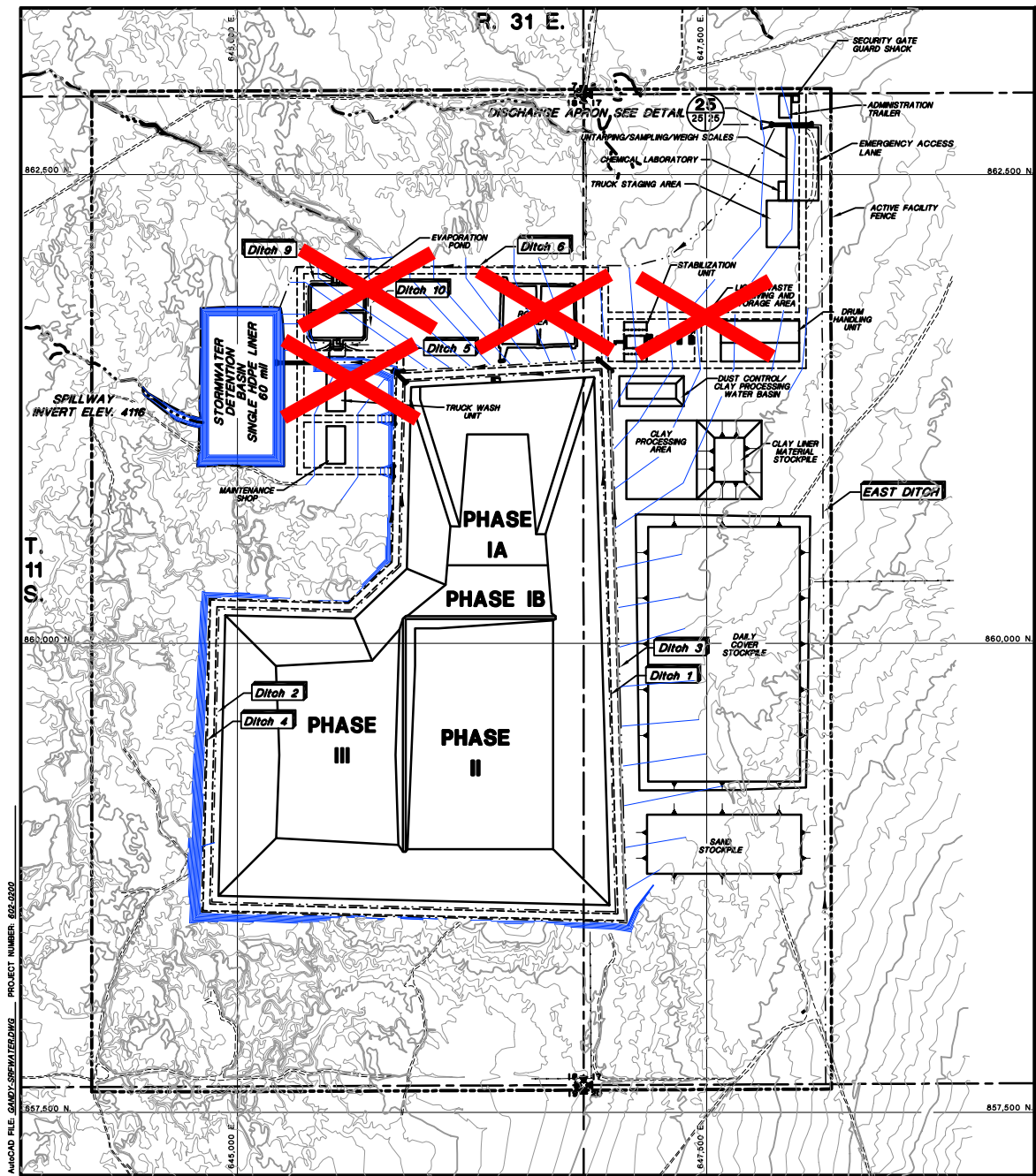
#	October 2000 Revision	10/4/00	J.Pellor	K.Clarish	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JP	T.Smith	P.Corser
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**INTERPHASE BERM SECTION**

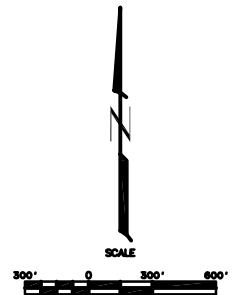


Sheet 1 Of 1 Sheets  
SCALE: As Shown  
DRAWING No. **24**



Drawing replaced by DBS&A for 2011 permit renewal under separate cover, including the notations shown on this sheet.

- NOTES:  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".  
 2. DITCHES 7 & 8 ARE SHOWN ON DRAWING 13.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
4	October 2000 Revision	10/4/00	J.Pellor	K.Covath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancoso	M.Matthew	P.Corser
2	SEPTEMBER 1999 REVISION	9/29/99	P.Corser	K.Covath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	02/18/97	POD/JPP	T.Smith	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**SURFACE WATER CONTROL FEATURES**

**TerraMatrix**  
 MONTGOMERY WATSON  
 Mang Group

Sheet 1 of 2 Sheets  
 SCALE: AS NOTED  
 DRAWING No. 25

AutoCAD FILE: GARDY-SURFACEWATER.DWG PROJECT NUMBER: 855-2650

CHANNEL DESIGNS

Ditch	25-yr,24-hr Flow Q (cfs)	Slope (%)	Bottom Width (BW) (ft)	Sideslope H:1V	Depth of Flow (ft) 1	Velocity (fps) 2	Freeboard (ft)	Maximum Total Depth (ft)	Erosion Protection	2-yr,24-hr Flow Q (cfs)	Velocity (fps)
1	34.2	0.5-2.0	0	2	2.1	6.7	1.0	3.1	None	4.8	4.1
2	62.2	0.5-1.0	0	2	2.6	6.0	1.0	3.6	None	8.3	3.6
3	126.6	0.5-1.0	5.0	3	2.4	5.8	1.0	3.4	None	40.0	4.8
		1.1-2.0	5.0	3	2.1	6.6	1.0	3.1	Riprap D50=6"		
4	6.8	0.5-1.0	0	2	1.1	3.5	1.0	2.1	None	7	7
5	217.3	0.5-1.0	10.0	3	2.3	7.3	1.0	3.3	None	53.6	4.8
6	30.1	0.5-1.0	0	2	2.0	5.0	1.0	3.0	None	7	7
7 Lower	7.3	1.0	0	1.5	0.9	6.0	1.0	1.9	HDPE	7	7
7 Upper	7.3	10	0	1.5	0.6	14.2	1.0	1.6	HDPE	7	7
8 Lower	19.3	1.0	0	1.5	1.3	7.6	1.0	2.3	HDPE	7	7
8 Upper	19.3	10	0	1.5	0.8	18	1.0	1.8	HDPE	7	7
East	272.8	0.5-0.8	16.0	3	2.5	5.5	1.0	3.5	Gravel D50=3"	7	7
Final Cover Road Side	31.5	0.5-2.4	0	3	1.8	5.5	1.0	2.8	Gravel D50=3"	7	7
Spillway	358 <sup>(6)</sup>	0.5	20.0	3	2.6	4.9	1.0	3.4	Gravel D50=3"	7	7
<del>9,10</del>	<del>90.4</del>	<del>0.5</del>	<del>3.0</del>	<del>3</del>	<del>2.1</del>	<del>4.7</del>	<del>1.0</del>	<del>3.1</del>	<del>NONE</del>	<del>7</del>	<del>7</del>

Ditches 9 and 10 eliminated for 2011 permit renewal.

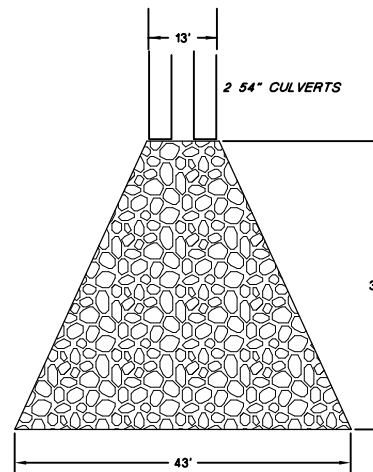
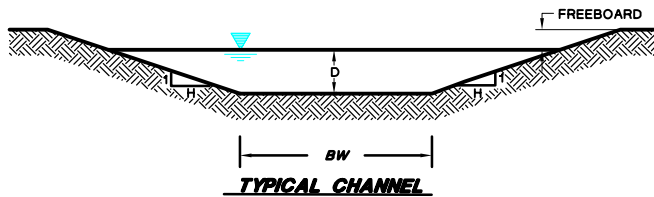
GENERAL NOTES:  
1. STORM WATER DETENTION BASIN TO BE LINED WITH SINGLE 60 mil HDPE LINER.

- NOTES: (1) Maximum allowable velocity for channels without erosion protection 5 fps  
 (2) Channels with velocities greater than 5 fps for the 25-yr event and less than the 5 fps for the 2 year storm will not be lined.  
 (3) Maximum allowable velocity for gravel lined channels is 6 fps.  
 (4) Depth of Flow determined from minimum grade of Channel.  
 (5) Flow Velocity determined from maximum grade of Channel.  
 (6) Design Flow for Spillway is 100YR - 24 HR.  
 (7) The velocity calculations were not required for the 2-year storm because the 25YR-24HR rain event flow velocity was less than 5 fps, so the 2YR-24HR rain event flow velocity would also be less than 5 fps, or because erosion protection had already been specified.

CULVERT DESIGNS

Culvert On Ditch	Flow (cfs)	Culvert Capacity (cfs)	No. Of Culverts	Culvert Diameter (in)	Total Capacity (cfs)
East	272.8	155	2	54	310
3	126.6	50	3	36	150
4	6.8	9	1	18	9
5	217.3	135	2	54	270
1 and 2	96.4	50	2	36	100
8	19.3	50	1	36	50
<del>9 and 10</del>	<del>90.4</del>	<del>50</del>	<del>2</del>	<del>36</del>	<del>100</del>

NOTES: (1) Culverts were sized assuming a Headwater/Culvert Diameter= 1.5.



NOTE: RIP RAP D<sub>50</sub> = 2', DEPTH OF ROCK 3'

25 RIP RAP OUTLET APRON DETAIL  
Not To Scale



PROFESSIONAL ENGINEER'S STATEMENT  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

Not For Construction

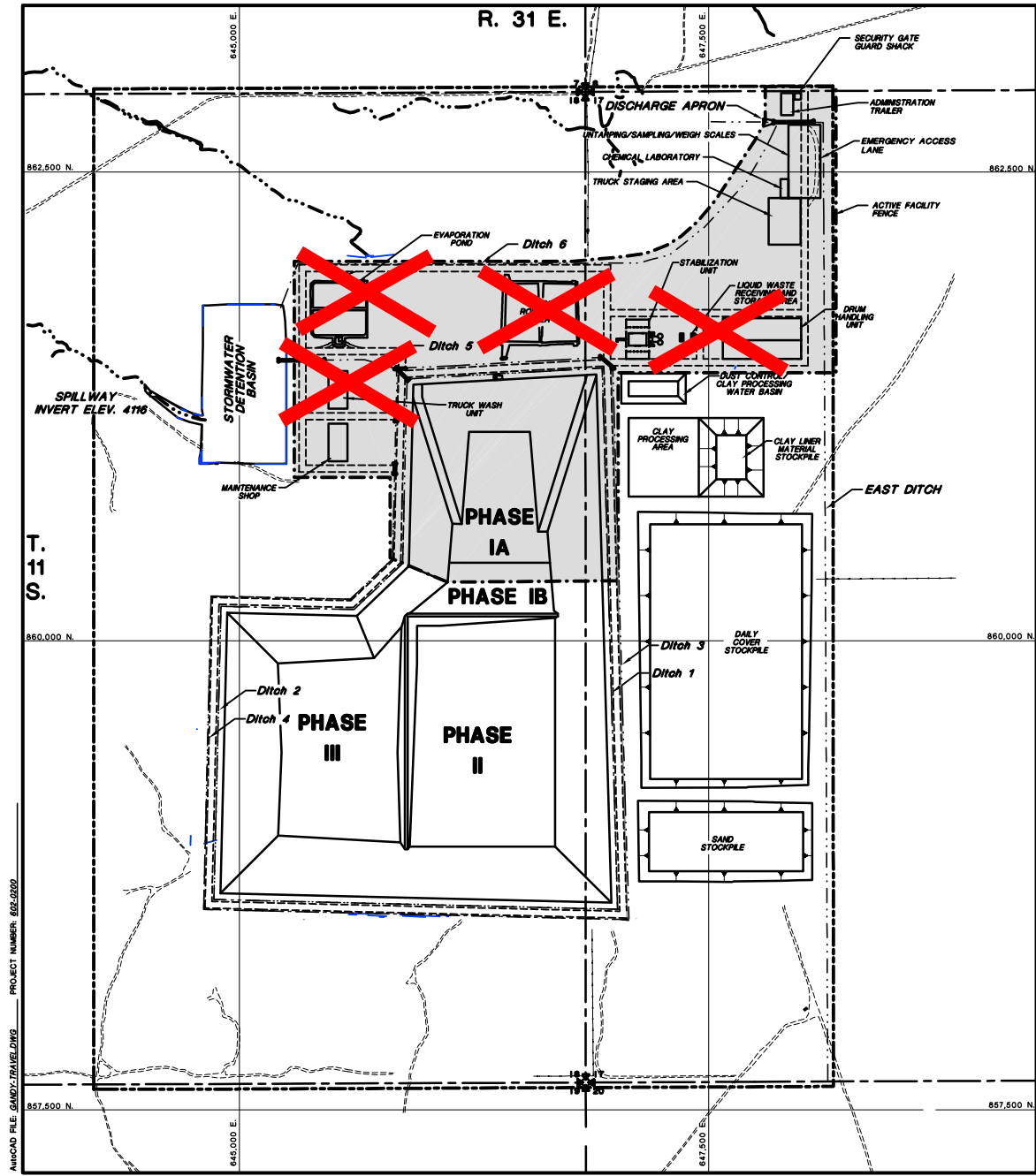
#	October 2000 Revision	10/4/00	J.Pellor	K.Corrith	P.Corsar
2	NOVEMBER 1998 UPDATES	11/02/98	J.Troneco	M.Matthews	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/12/97	PQC/JP	K.Corsar	P.Corsar
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

TRIASSIC PARK  
WASTE DISPOSAL FACILITY

DRAWING TITLE:  
SURFACE WATER CONTROL DETAILS

TerraMatrix  
MONTGOMERY WATSON  
Mapping Group

Sheet 2 Of 2 Sheets  
SCALE: Not to Scale  
DRAWING No. 25

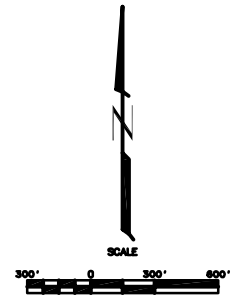


# LEGEND

- LIMITS OF LANDFILL OPERATIONS AND WASTE PROCESSING AREA
- CONSTRUCTION OPERATIONS AREA

NOTES:  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

Drawing replaced by DBS&A for 2011 permit renewal under separate cover, including the notations shown on this sheet.



## Not For Construction

#	October 2000 Revision	10/1/00	J.Palliser	K.Covarr	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Palliser	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/10/97	PGC/JPP	T.Smith	P.Corsar
REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:  
**TRAFFIC PLAN**



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

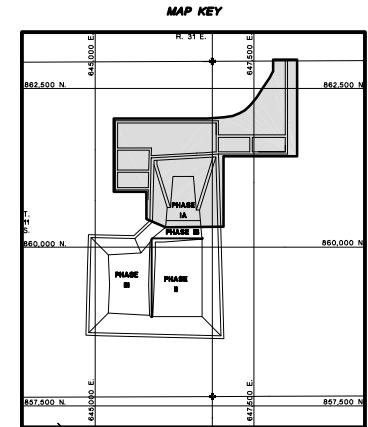
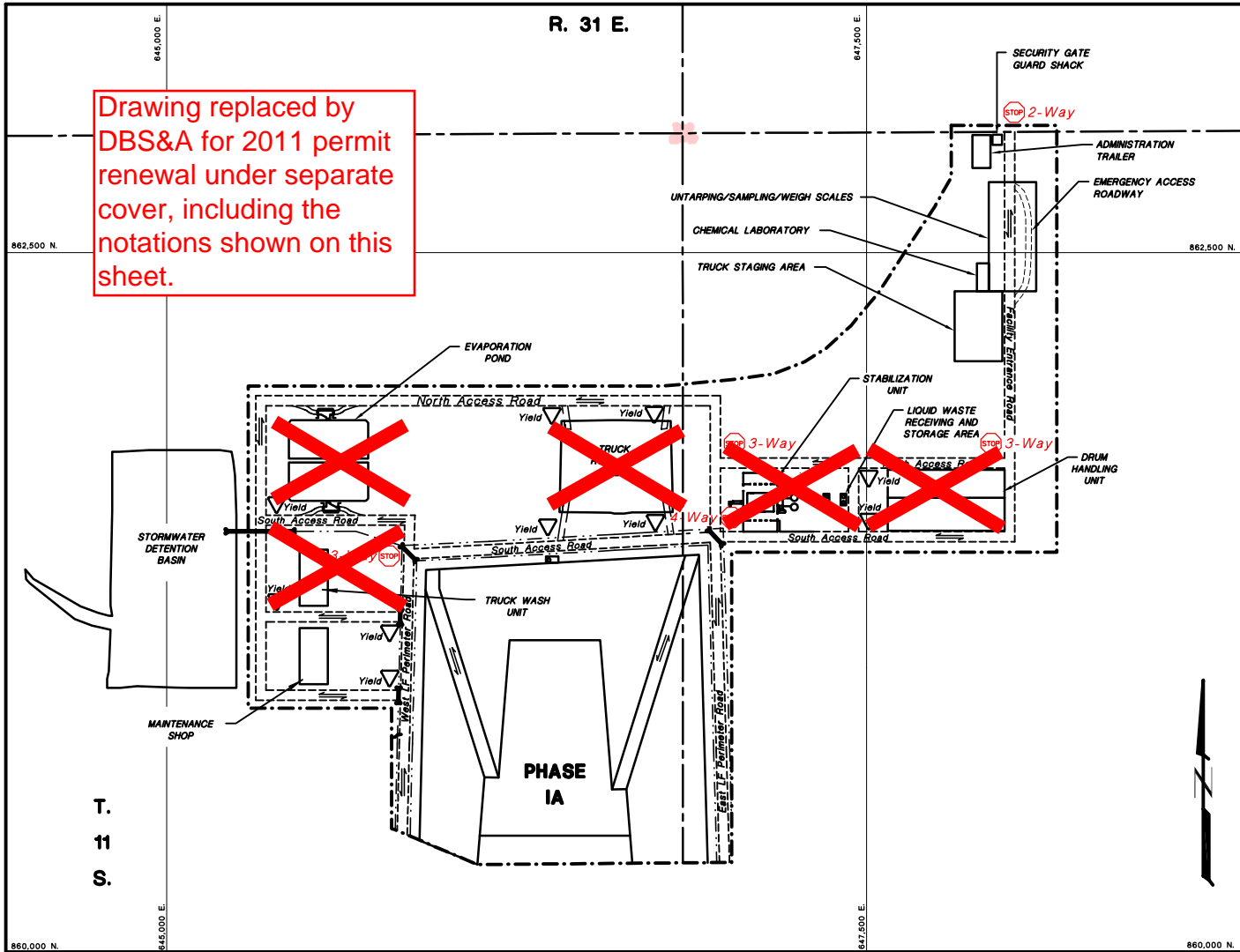
Date Patrick G. Corsar, NM P.E. 12230

**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 1 Of 2 Sheets  
 SCALE: AS NOTED  
 DRAWING No. **28**

M:\MCD FILE\GANDY\TRAFLEWDG PROJECT NUMBER: 655-0502

Drawing replaced by DBS&A for 2011 permit renewal under separate cover, including the notations shown on this sheet.



- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2. "INDEX, LEGEND AND GENERAL NOTES".
  - UNIMPROVED ROADS AND CONSTRUCTION HAUL ROADS NOT SHOWN. GRAVEL LINED ACCESS ROADS ARE 2 WAY TRAFFIC. ALL SITE ACCESS ROADS SPEED LIMIT IS 15 MPH, CONSTRUCTION HAUL ROAD SPEED LIMIT IS 35 MPH.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/1/00	J.Palmer	K.Cowan	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Gent	P.Corser
0	PART 0 PERMIT APPLICATION	02/27/97	PSC/JPP	K.Cowan	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:

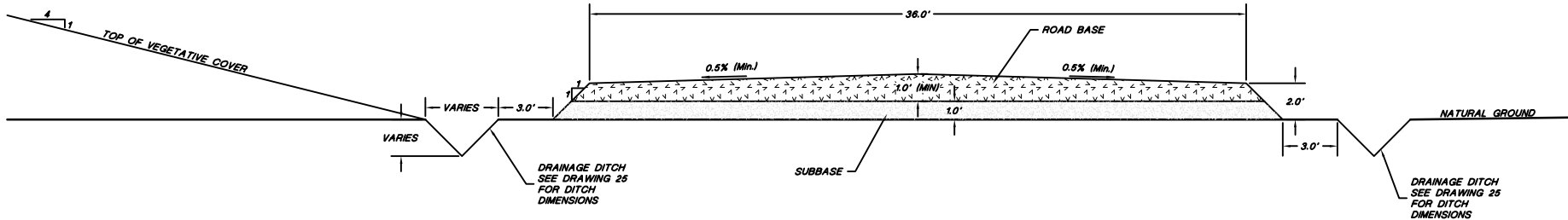
**TRAFFIC PLAN**



Sheet 2 Of 2 Sheets  
 SCALE: As Noted  
 DRAWING No. 26

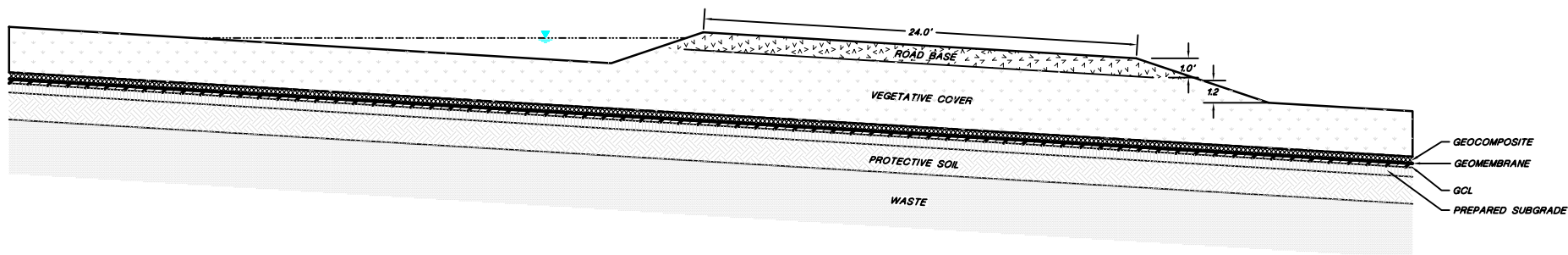
SCALE  
 0 200 400  
 Feet





**23 PERIMETER ROAD DETAIL**

HORIZONTAL SCALE  
 0 3' 6'  
 VERTICAL SCALE  
 0 3' 6'



**24 COVER ACCESS ROAD AND DITCH DETAIL**

HORIZONTAL SCALE  
 0 3' 6'  
 VERTICAL SCALE  
 0 3' 6'



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

2	October 2000 Revision	10/4/00	J.Pellour	K.Chernik	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellour	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/10/97	PGC/JP	TWS	PGC
REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

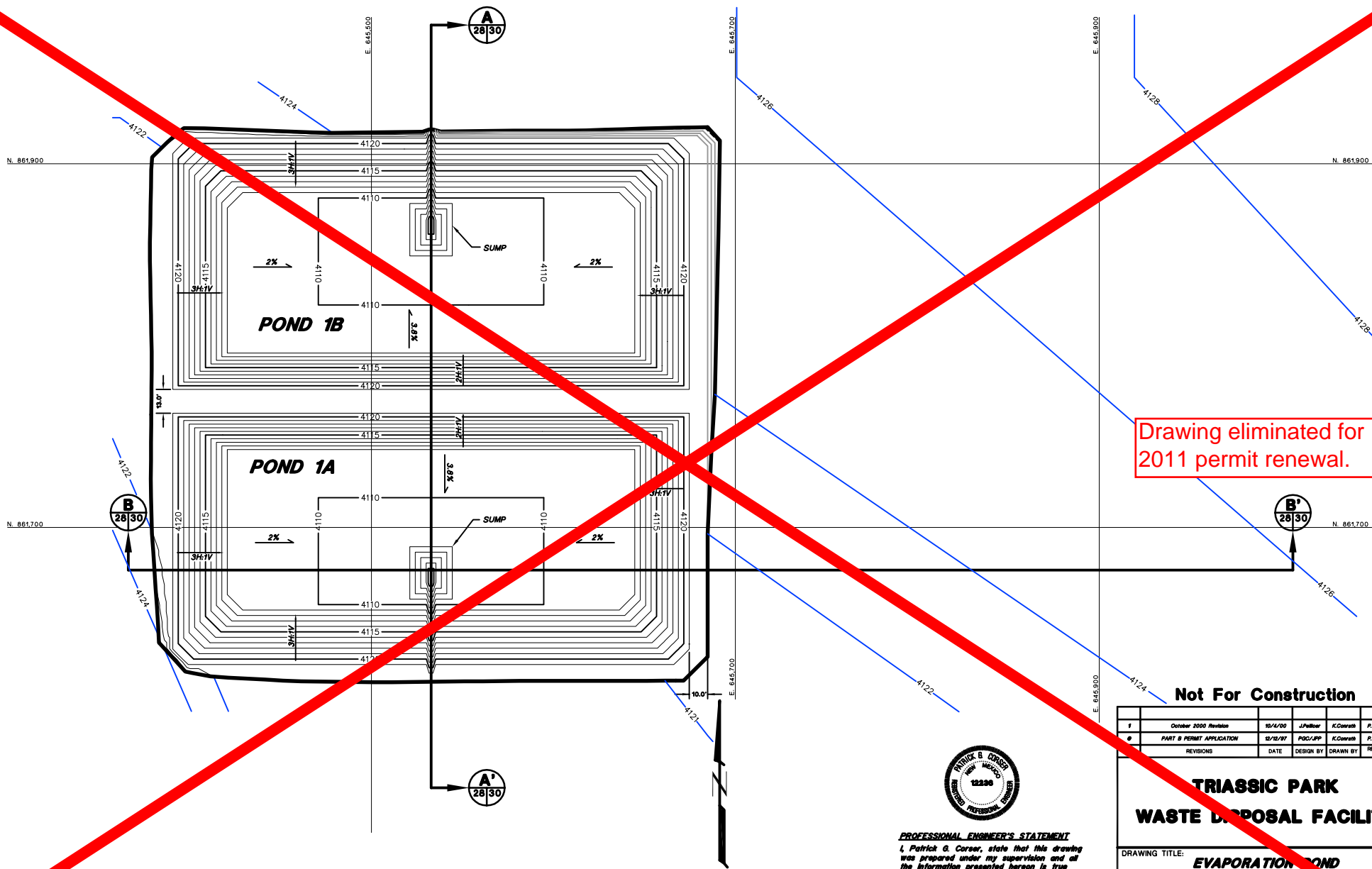
DRAWING TITLE:  
**PERIMETER ROAD DETAILS**



Sheet 1 Of 1 Sheets  
 SCALE: AS NOTED  
 DRAWING No. **27**

**NOTES:**  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".  
 2. ROADBASE GRAVEL THICKNESS MAY BE REDUCED BASED ON EVALUATION OF SUBGRADE CONTOURS.

AutoCAD FILE: SUBGRADE-CONTOURS.DWG PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

Not For Construction

1	October 2000 Revision	10/1/00	J.Pellor	K.Coates	P.Coars
2	PART B PERMIT APPLICATION	12/12/07	PGC/PP	K.Coates	P.Coars
	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

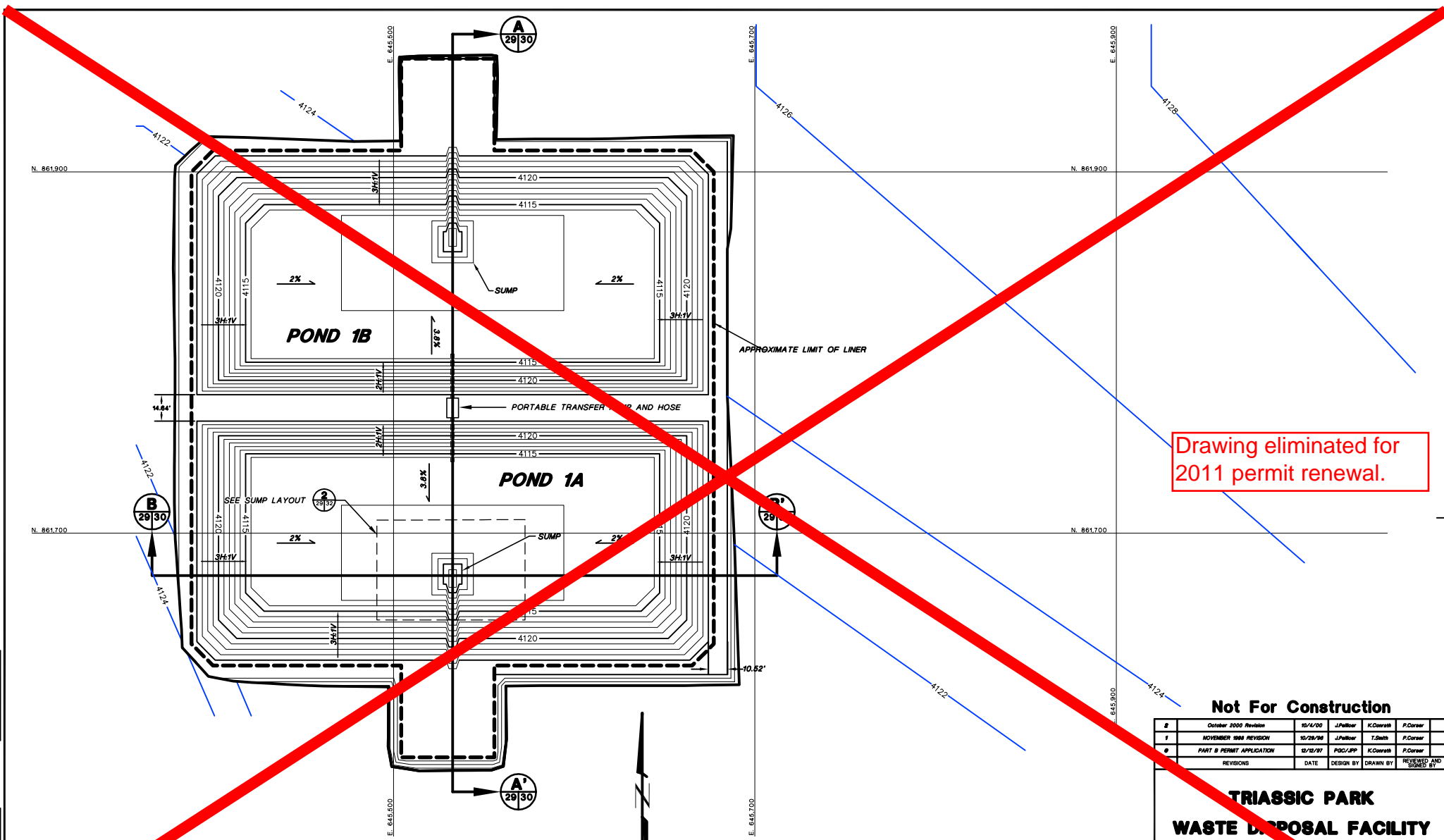
## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE: **EVAPORATION POND  
SUBGRADE CONTOURS - PHASE 1**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet \_\_\_\_\_ of \_\_\_\_\_ Sheets  
SCALE: \_\_\_\_\_ Drawing No. \_\_\_\_\_  
As Shown \_\_\_\_\_

ARCAD FILE: CLAY-COVT78.DWG PROJECT NUMBER: 602-6200



Drawing eliminated for 2011 permit renewal.

**Not For Construction**

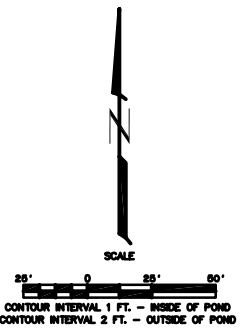
2	October 2000 Revision	10/4/00	J.Pellor	K.Corsar	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/21/97	PGC/PP	K.Corsar	P.Corsar
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE: **EVAPORATION POND  
CLAY LINER CONTOURS - PHASE 1**

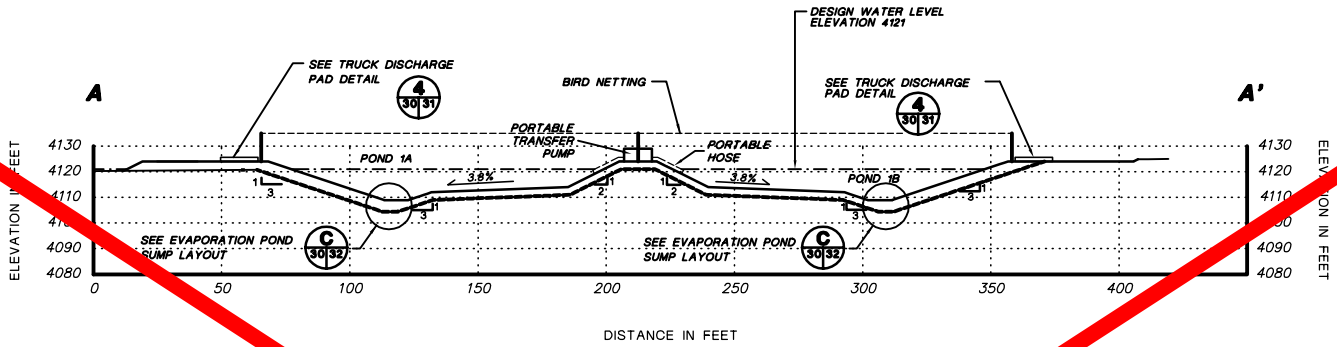
**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date: Patrick G. Corsar, NM P.E. 12236



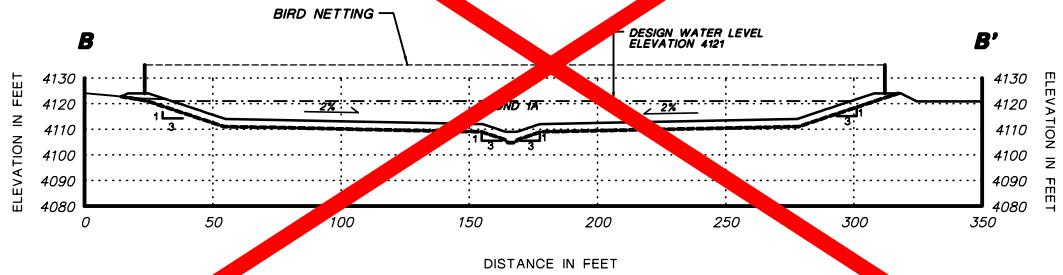
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

	<b>TerraMatrix</b> MONTGOMERY WATSON Mining Group	Sheet: _____ of _____ SCALE: _____ As Shown	DWG No. _____ Date: _____
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**CROSS-SECTION A-A'**

HORIZONTAL SCALE  
 0 25' 50'  
 VERTICAL SCALE  
 0 25' 50'



**CROSS-SECTION B-B'**

HORIZONTAL SCALE  
 0 25' 50'  
 VERTICAL SCALE  
 0 25' 50'

Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY
1	October 2000 Revision	10/14/00	J.Pellick	K.Covath	P.Corser
2	NOVEMBER 2000 UPDATES	11/02/00	J.Trennes	M.Mullins	P.Corser
3	NOVEMBER 2000 REVISION	10/29/00	J.Pellick	T.Smith	P.Corser
4	PART B PERMIT APPLICATION	02/10/07	PQC/PP	K.Covath	P.Corser

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**EVAPORATION POND CROSS SECTION**

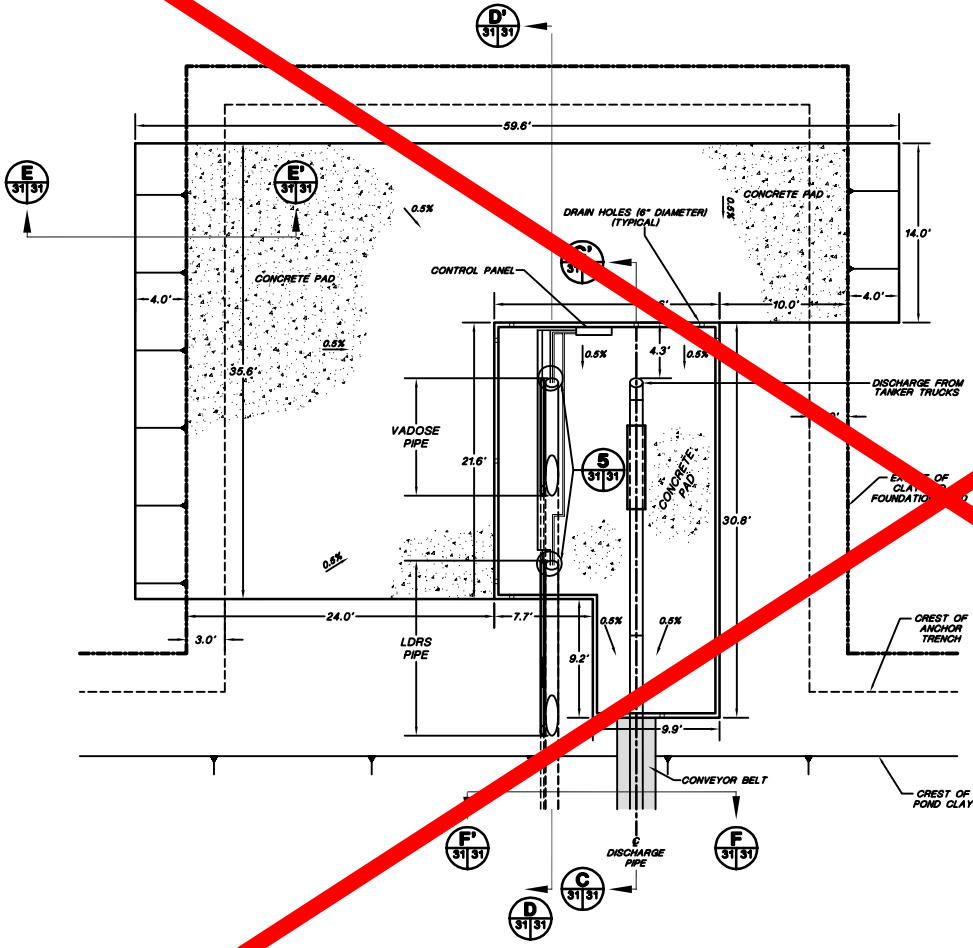
**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 1 of 1  
 SCALE: As Shown  
 DRAWING No. 12236

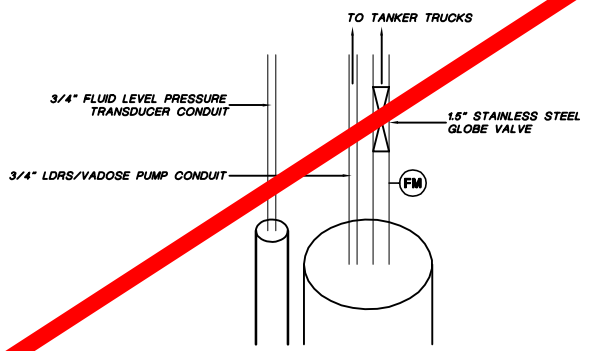
PROJECT NUMBER: 602-0200  
 AutoCAD FILE: E5965282.DWG

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

PROJECT NUMBER: 602-0200  
ARCAD FILE: TANRZADZ01WG



**4 TRUCK DISCHARGE STATION LAYOUT**  
SCALE  
6" = 0' 6" = 10'  
CONTOUR INTERVAL: N.A.



**5 PIPE CONDUIT DETAIL**  
NOT TO SCALE

Drawing eliminated for 2011 permit renewal.

NOTES:  
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "GENERAL LEGEND AND GENERAL NOTES".  
2. FOR CONCRETE DETAILS SEE DRAWING 45.  
3. PIPING SYSTEM WILL COMPLY WITH API PUBLICATION 1615 (NOVEMBER 1979) OR ANSI STANDARD B31.2 AND ANSI STANDARD B31.4.



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
1	October 2000 Revision	10/4/00	J.Pellier	K.Corsath	P.Corsar
2	SEPTEMBER 1999 REVISION	8/29	P.Corsar	T.Clark	P.Corsar
3	NOVEMBER 1998 REVISION	10/29/98	J.Pellier	T.Smith	P.Corsar
4	PART B PERMIT	11/11/97	PAG/JAG/JH	K.Corsath	P.Corsar

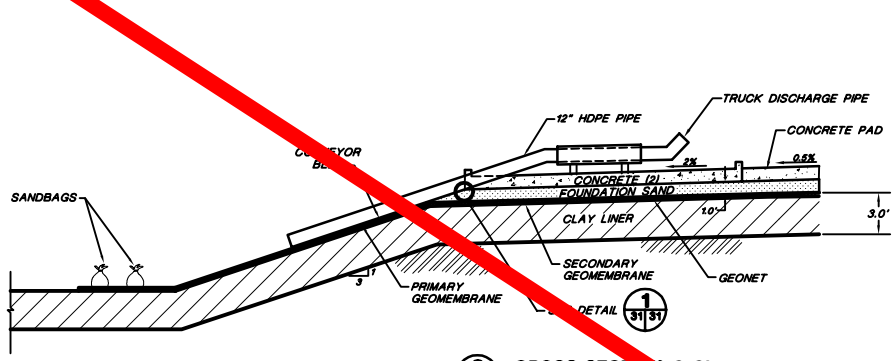
**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE: **EVAPORATION POND TRUCK DISCHARGE STATION**

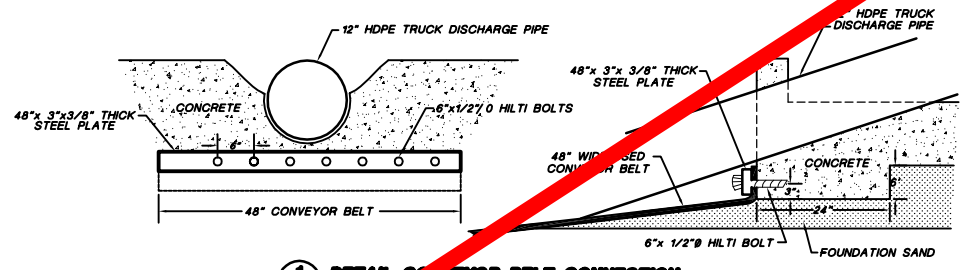
**TerraMatrix**  
MONTGOMERY WATSON  
Natural Resources Group

Sheet: 2  
SCALE: As Shown  
Drawing No. 51

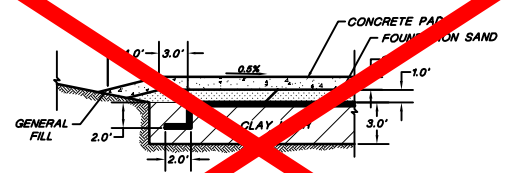
PROJECT NUMBER: 602-0200



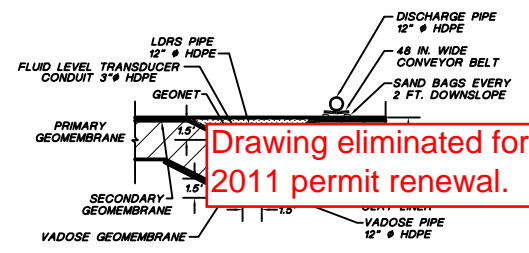
**C CROSS-SECTION C-C'**  
Not To Scale



**1 DETAIL CONVEYOR BELT CONNECTION**  
Not To Scale



**E CROSS-SECTION E-E' ACROSS RAMP**  
Not To Scale

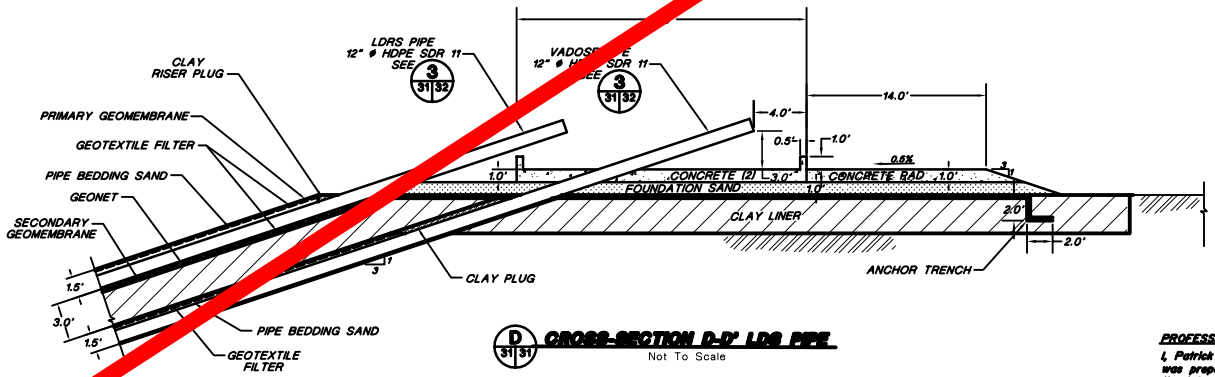


**F CROSS-SECTION F-F' CONVEYOR BELT**  
Not To Scale

**NOTES:**  
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2 "INDEX, LEGEND AND GENERAL NOTES".  
2. FOR CONCRETE DETAILS SEE DRAWING No. 45.

**Not For Construction**

NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
4	October 2000 Revision	10/14/00	J.Pellor	K.Covats	P.Corsar
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancoso	M.Murphy	P.Corsar
2	SEPTEMBER 1998 REVISION	8/29	P.Corsar	T.Clark	P.Corsar
1	SEPTEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART 8 PERMIT APPLICATION	12/18/97	PQC/PP	K.Covats	P.Corsar



**D CROSS-SECTION D-D' LDR PIPE**  
Not To Scale

**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236



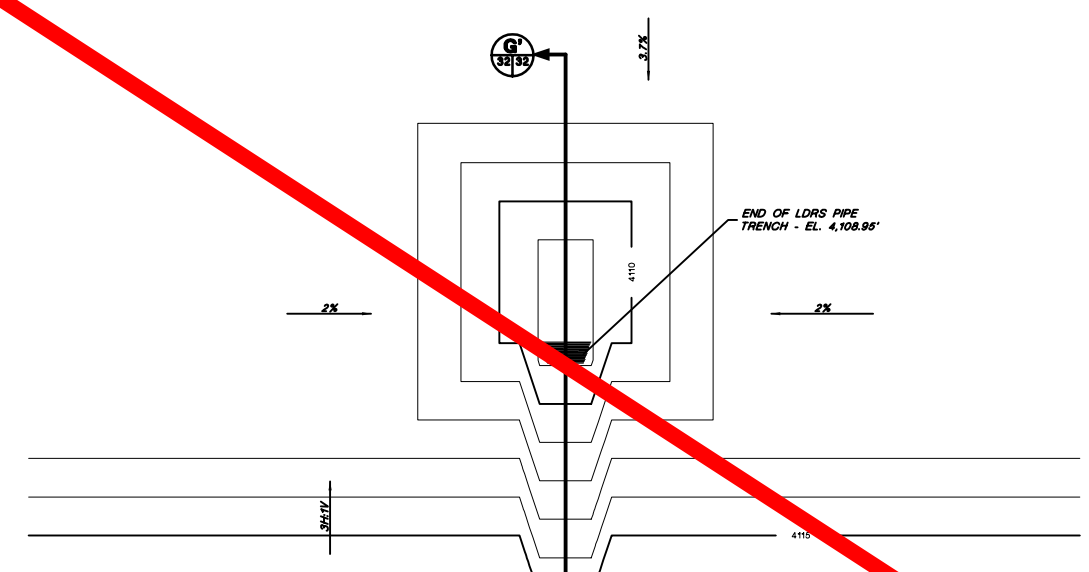
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

**DRAWING TITLE:  
EVAPORATION POND  
TRUCK DISCHARGE STATION**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

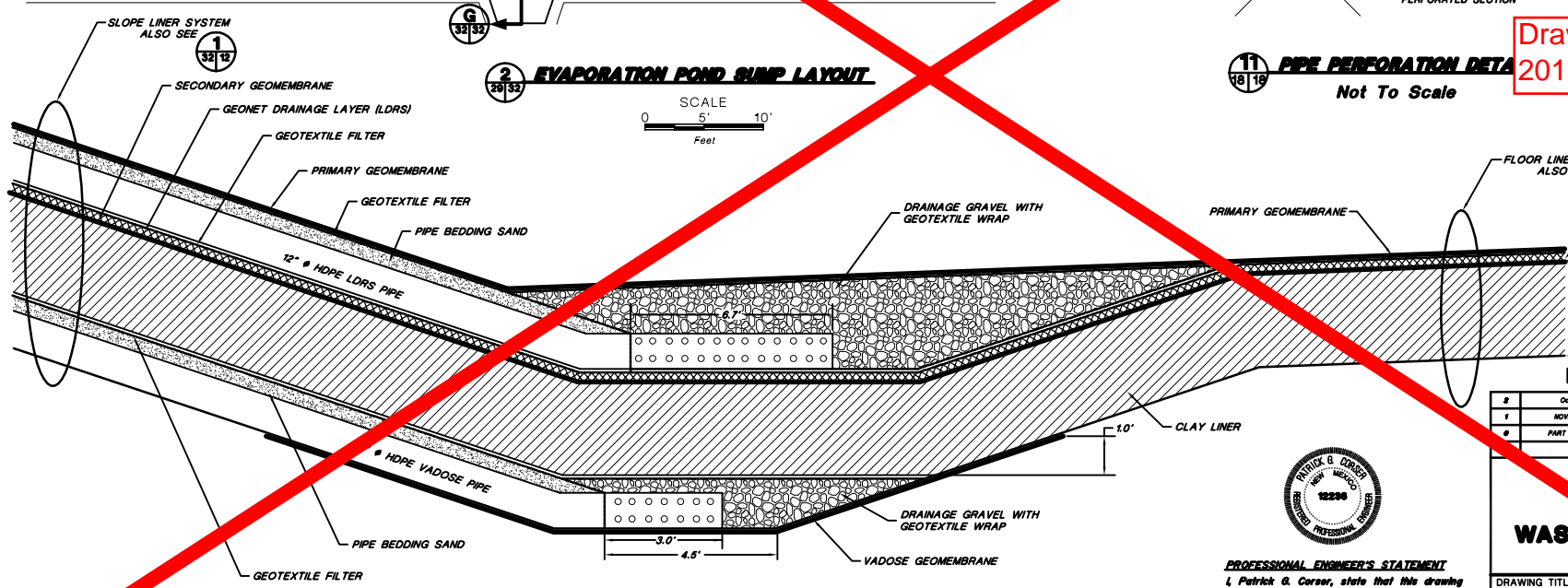
Sheet 2 of 2 Sheets  
SCALE: As Shown  
Drawing No. 31131

PROJECT NUMBER: 602-0200  
AUTOCAD FILE: LDRS/LANDING



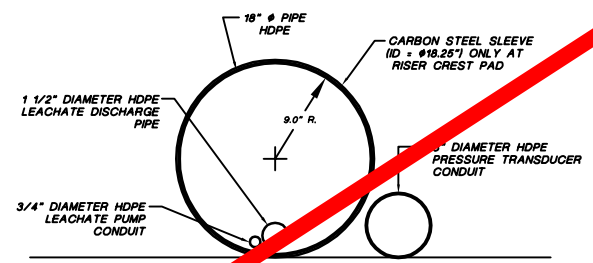
**2 EVAPORATION POND SUMP LAYOUT**

SCALE  
0 5' 10'  
Feet



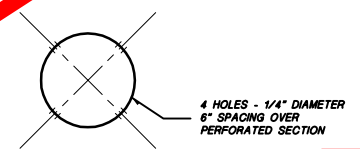
**G EVAPORATION POND SUMP CROSS-SECTION**

Not To Scale



**3 LDRS AND LDRS RISER PIPE DETAIL**

SCALE  
0 0.5' 1.0'  
Feet



**11 PIPE PERFORATION DETAIL**

Not To Scale

Drawing eliminated for 2011 permit renewal.

Not For Construction

2	October 2008 Revision	10/14/08	J.Palmer	K.Clarke	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/12/97	PGC/PP	T.Smith	P.Corsar
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED AND APPROVED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**EVAPORATION POND LDRS AND  
VADOSE PLAN AND DETAILS**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

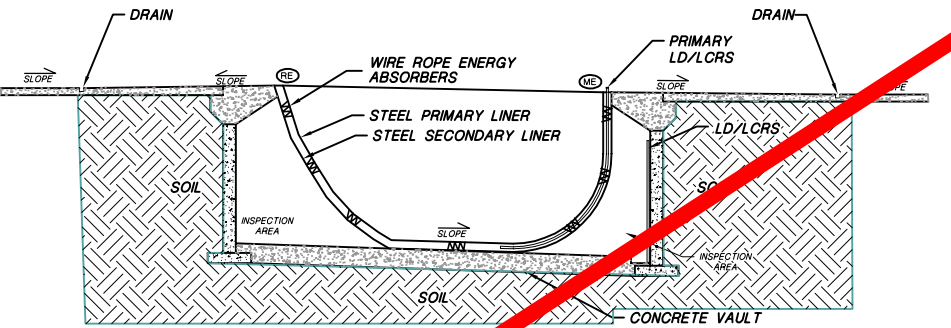
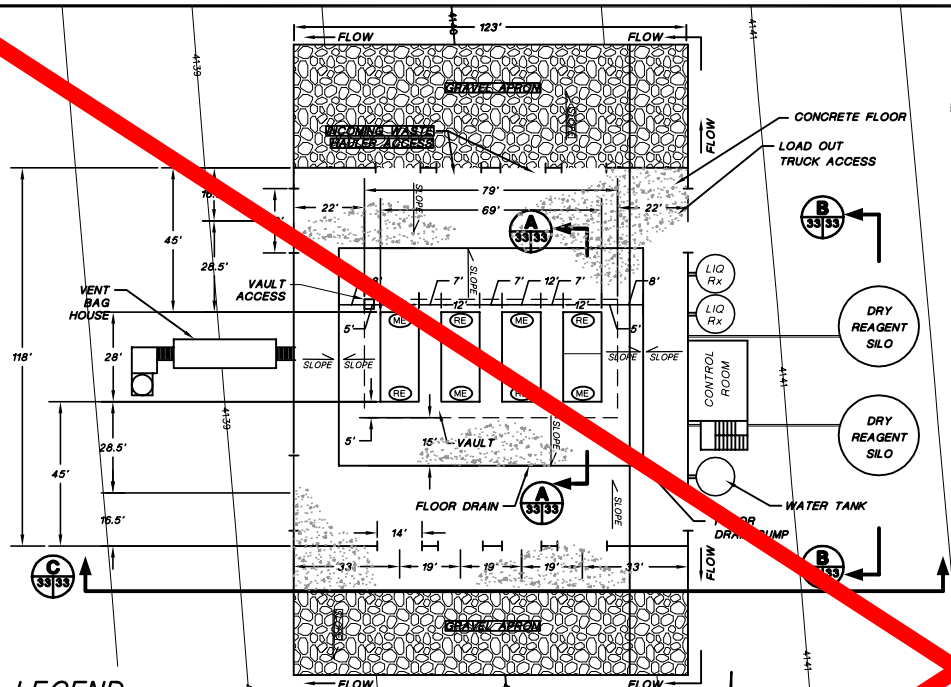
Date: Patrick G. Corsar, NJ P.E. 12236

TerraMatrix  
MONTBOMERY WATSON  
Mining Group

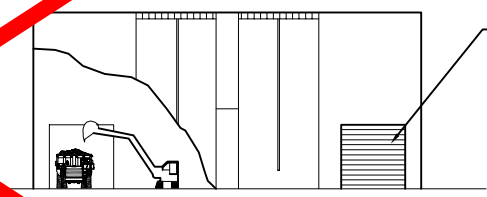
Sheet: 1 of 1  
SCALE: As Shown  
Drawing No. 602-0200

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

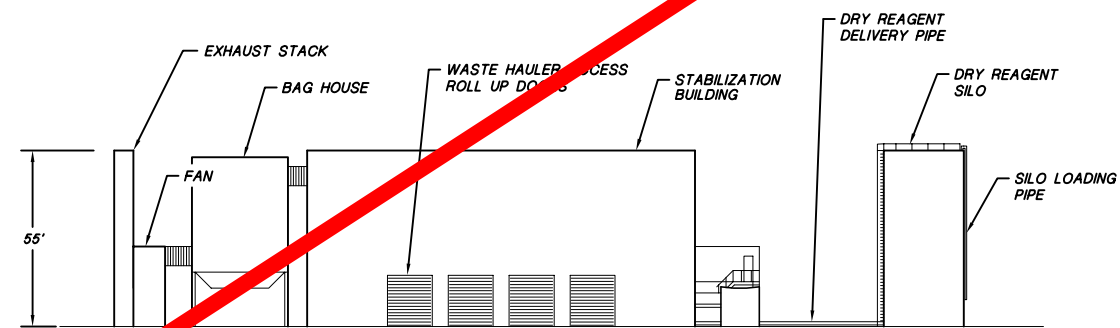
PROJECT NUMBER: 602-0200



NOTE: SEE DRAWING 36 FOR BIN DETAILS



Drawing eliminated for 2011 permit renewal.



PROFESSIONAL ENGINEER'S STATEMENT  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

4	October 2000 Revision	10/4/00	J.Pellor	K.Covath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosa	M.Wright	P.Corser
2	SEPTEMBER 1998 REVISION	8/29	P.Corser	T.Gant	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/10/97	PCC/JPP	K.Covath	P.Corser
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED AND APPROVED BY

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE: **STABILIZATION UNIT GENERAL ARRANGEMENT**

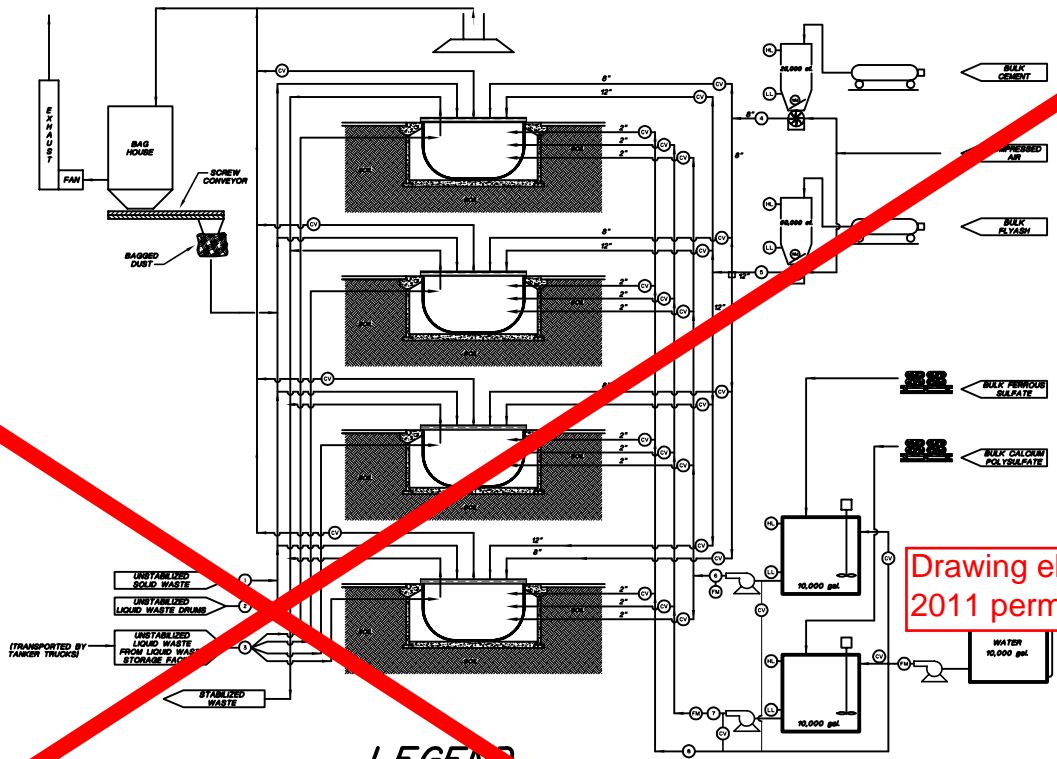
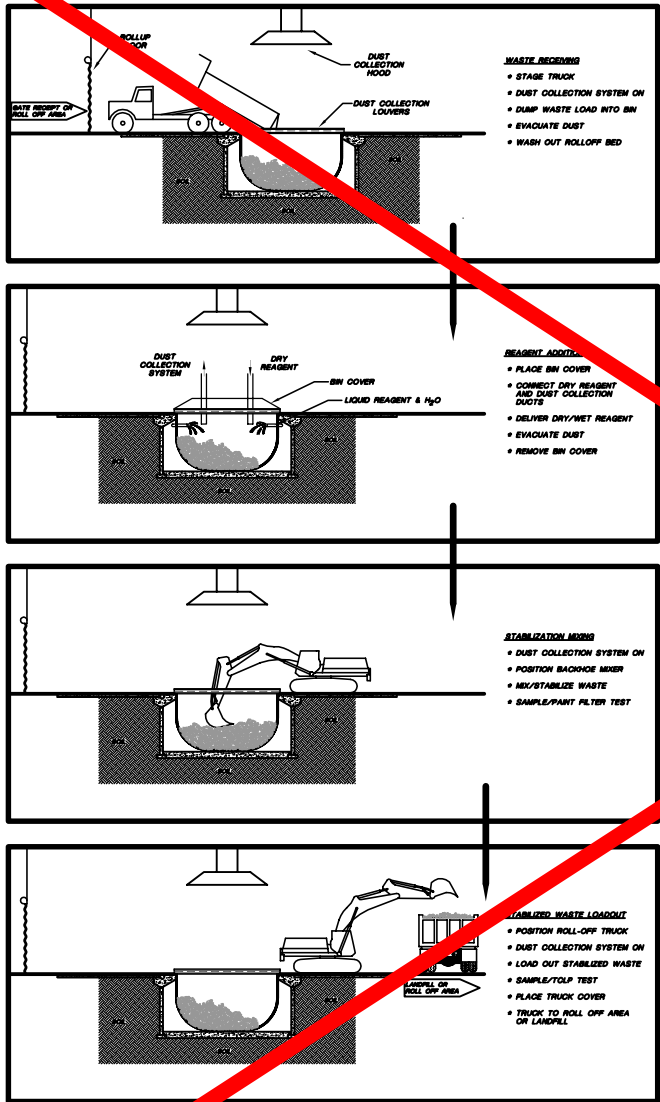
**TerraMatrix**  
MONTGOMERY WATSON  
Mixing Group

Sheet 1 of 7 Sheets  
SCALE: As Shown  
Drawing No. 33/33

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".



PROJECT NUMBER: 602-0200  
AutoCAD FILE: 602FLOW.DWG



Drawing eliminated for 2011 permit renewal.

### LEGEND

- (HL) HIGH LEVEL CUT OFF
- (LL) LOW LEVEL CUT OFF
- (WM) WEIGHT METER
- (FM) FLOW METER
- (CV) CONTROL VALVE
- (SG) SIGHT GAUGE



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

### Not For Construction

NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
2	October 2000 Revision	10/14/00	J.Pellor	K.Corsath	P.Corsar
2	SEPTEMBER 1999 REVISION	8/29	P.Corsar	T.Clark	P.Corsar
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	12/18/97	PGC/JP	K.Corsath	P.Corsar

## TRIASSIC PARK WASTE DISPOSAL FACILITY

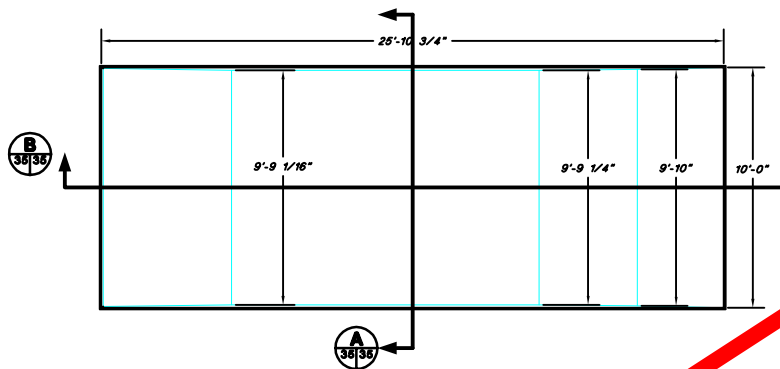
DRAWING TITLE: **STABILIZATION UNIT WASTE FLOW DIAGRAM**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

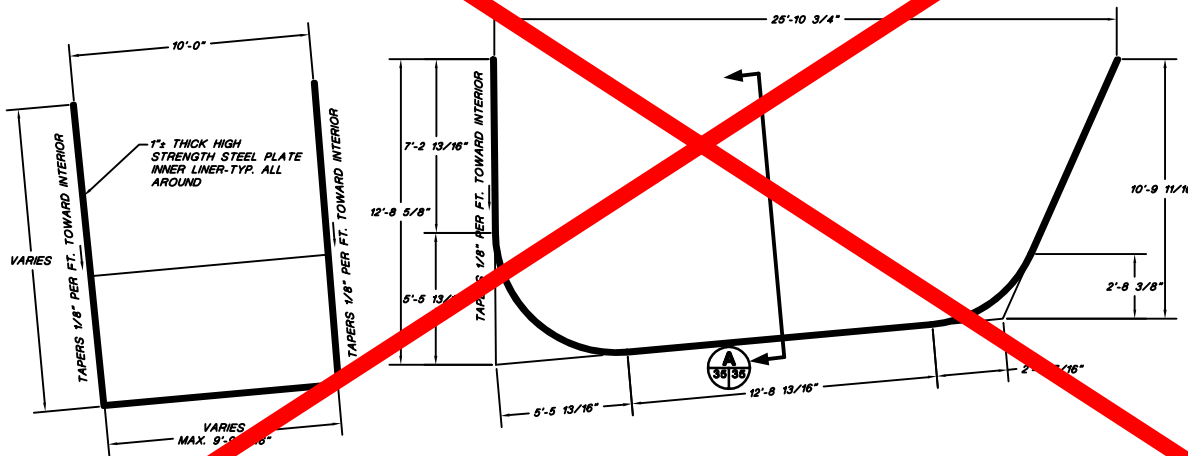
Sheet \_\_\_\_\_ of \_\_\_\_\_ Sheets  
SCALE: \_\_\_\_\_ Drawing No. \_\_\_\_\_  
As Shown

- NOTES:**
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  2. ACTUAL REAGENT: WASTE RATIOS ARE DEPENDENT ON SPECIFIC CHARACTERISTIC OF WASTE.
  3. PIPING WILL BE INSTALLED ACCORDING TO API PUBLICATION 1615 (NOVEMBER 1979) AND ANSI STANDARD B31.2 AND ANSI STANDARD B31.4.
  4. PIPING LOCATION WILL BE DETERMINED IN THE FIELD.
  5. REAGENTS MAY BE MANUALLY FED DIRECTLY TO THE BINS.

PROJECT NUMBER: 602-0200



**PLAN VIEW - INNER LINER**



**LONGITUDINAL SECTION - INNER LINER**

**CROSS SECTION - INNER LINER**

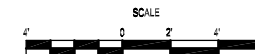
Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
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Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**



NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
2	October 2008 Revise	10/14/08	J.Pellor	K.Coarash	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellor	T.Sain	P.Corser
0	PART B PERMIT APPLICATION	12/10/97	PGC/JP	K.Coarash	P.Corser

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

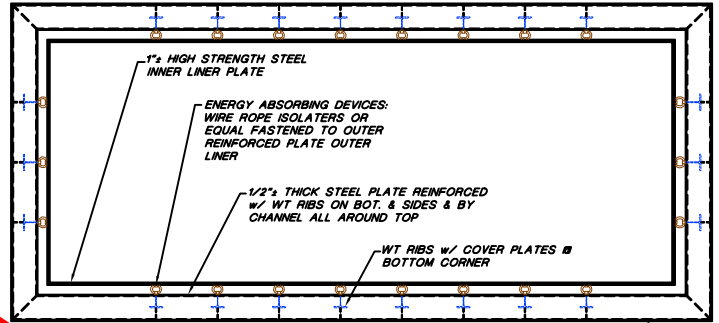
DRAWING TITLE: **STABILIZATION UNIT BIN DESIGN**

**FRED H. SCHOTT & ASSOCIATES**  
CIVIL and STRUCTURAL ENGINEERING • LAND PLANNING & DESIGN DESIGN  
280 Schuchman Blvd, Suite A San Luis Obispo, CA 93401  
(805) 544-1230 FAX (805) 544-1234

The plans, specifications, ideas and designs incorporated herein, are instruments of service prepared for the construction of the work shown hereon and are the property of Fred H. Schott & Associates and shall not be used in whole or in part for any other project without authority of Fred H. Schott & Associates.  
© Fred H. Schott & Associates

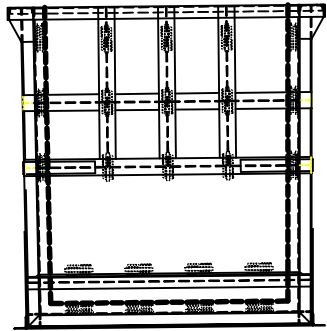
**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet \_\_\_\_\_ of \_\_\_\_\_  
SCALE: \_\_\_\_\_  
As Shown

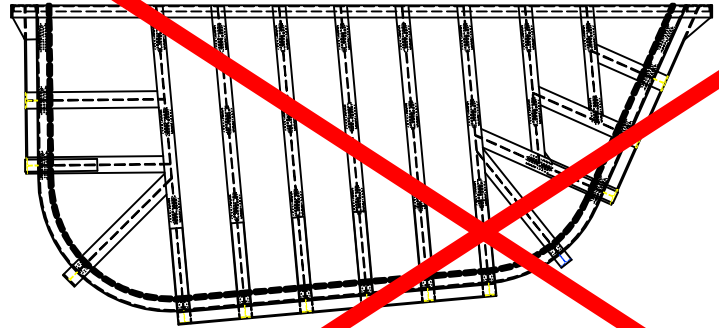


**TOP VIEW**

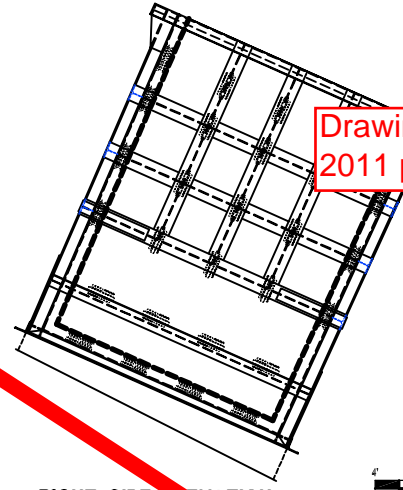
C12X W/ COVER PLATE-TYP. ALL AROUND TOP



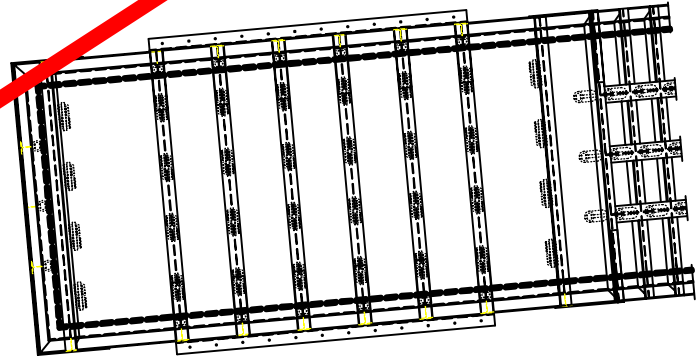
**LEFT SIDE ELEVATION**



**TYPICAL SIDE ELEVATION**

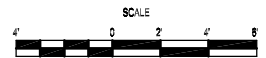


**RIGHT SIDE ELEVATION**



**VIEW OF BOTTOM**

Drawing eliminated for 2011 permit renewal.



8	October 2008 Revision	10/14/08	J.Palmer	K.Corsier	P.Corsier
7	NOVEMBER 2008 REVISION	10/28/08	J.Palmer	T.Smith	P.Corsier
6	PART B PERMIT APPLICATION	03/20/97	PGC/JP	K.Corsier	P.Corsier
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE: **STABILIZATION UNIT  
BIN DESIGN DETAILS**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

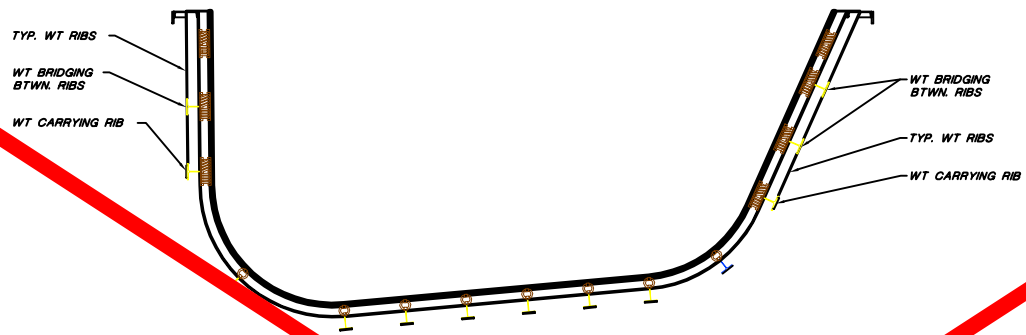
**FRED H. SCHOTT & ASSOCIATES**  
CIVIL AND STRUCTURAL ENGINEERING • LAND PLANNING & DESIGN DESIGN  
280 Schuchman Road, Suite A San Luis Obispo, CA 93401  
(805) 544-1235 FAX (805) 544-2894

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© Fred H. Schott & Associates

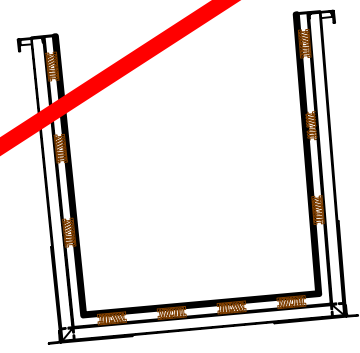
**TerraMatrix**  
MONTGOMERY WATSON  
Mixing Group

Sheet 2 of 2  
SCALE: As Shown  
Drawing No. 30

AR/CAD FILE: GEMBUILDING PROJECT NUMBER: 602-60200



**LONGITUDINAL SECTION - INNER/OUTER LINERS & FRAMING**



**LATERAL SECTION - INNER/OUTER LINERS & FRAMING**

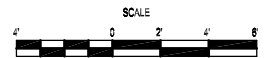
Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**



#	October 2008 Reissue	10/4/08	J.Palmer	K.Corsari	P.Corsar
#	NOVEMBER 1998 REVISION	10/29/98	J.Palmer	T.Smith	P.Corsar
#	PART B PERMIT APPLICATION	12/18/97	PQC/JP	K.Corsari	P.Corsar
	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED BY

**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

DRAWING TITLE: **STABILIZATION UNIT  
 BIN DESIGN DETAILS**

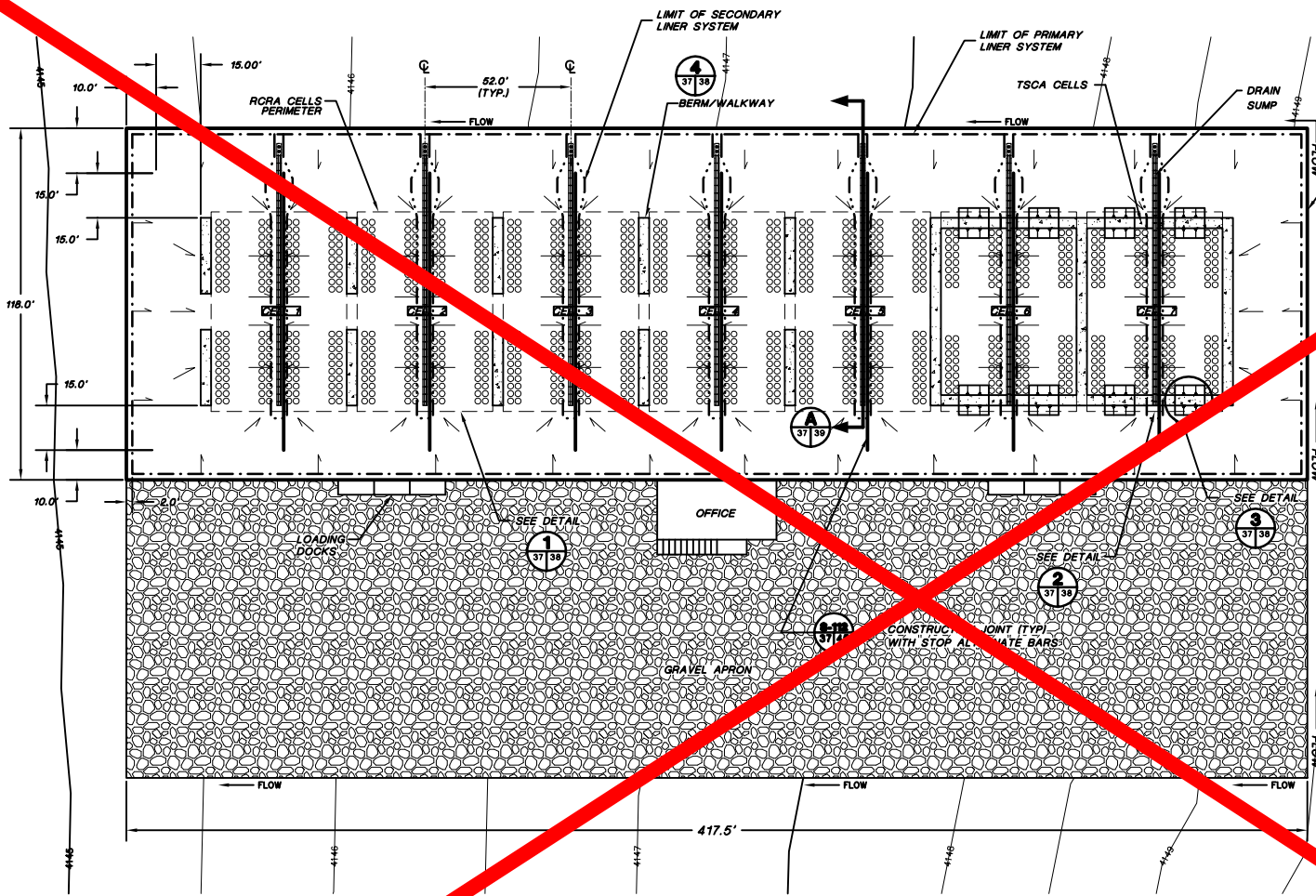
**FRED H. SCHOTT & ASSOCIATES**  
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 280 Schuchman Road, Suite A San Luis Obispo, CA 93401  
 (805) 544-1230 FAX (805) 544-2894

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**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 2 of 2  
 SCALE: As Shown  
 Drawing No. SC-100

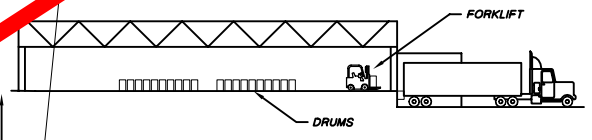
PROJECT NUMBER: 602-0200  
AutoCAD FILE: 06/04/02.DWG



**TYPICAL DRUM FLOOR LAYOUT**

# LEGEND

- DRAINAGE FLOW DIRECTION ON TOP OF CONCRETE
- EXTENT OF PRIMARY GEOMEMBRANE
- EXTENT OF SECONDARY GEOMEMBRANE
- ○ ○ ○ DRUMS



**TYPICAL SIDE ELEVATION**

Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2000 Revision	10/4/00	J.Pellor	K.Covath	P.Corser
2	SEPTEMBER 1998 REVISION	09/01/98	P.Corser	T.Sam	P.Corser
1	NOVEMBER 1998 REVISION	10/20/98	J.Pellor	T.Sam	P.Corser
0	PART B PERMIT APPLICATION	07/20/97	PQC/JP	K.Covath	P.Corser

## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:  
**DRUM HANDLING UNIT  
 GENERAL ARRANGEMENT**

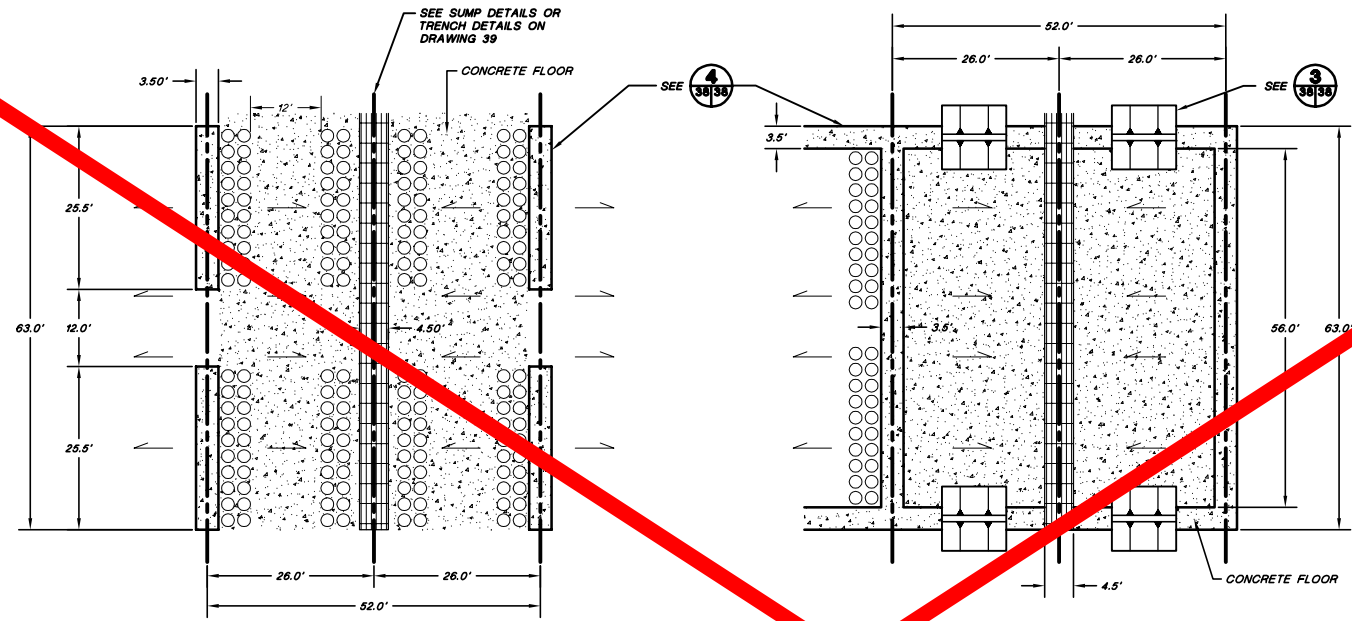
TerraMatrix  
 MONTGOMERY WATSON  
 Making Group

Sheet 1 of 7 Sheets  
 SCALE: As Shown  
 DRAWING No. 37

- NOTES:**
- 1) FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - 2) EACH CELL SHALL BE LABELED ACCORDING TO THE TYPE OF WASTE BEING STORED.
  - 3) INCOMPATIBLE WASTES WILL BE STORED IN SEPARATE CELLS.

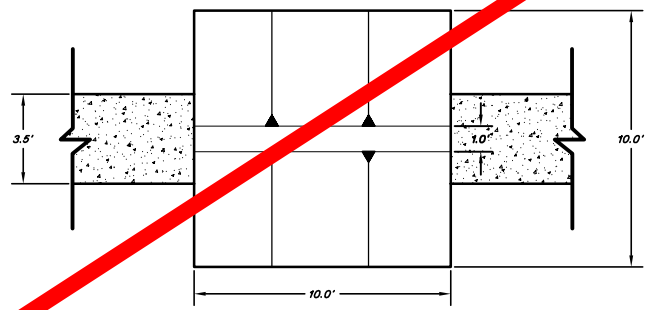
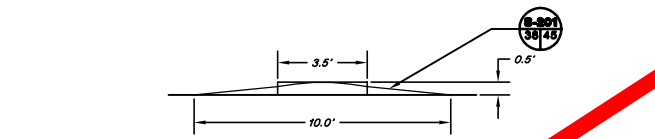
**TYPICAL FRONT ELEVATION**

PROJECT NUMBER: 602-0200

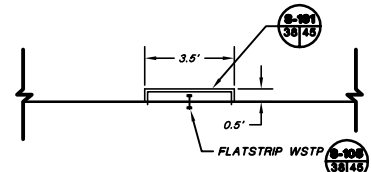


**1 TYPICAL RCRA CELL DETAIL**  
Not To Scale

**2 TYPICAL TEGA CELL DETAIL**  
Not To Scale



**3 TYPICAL TEGA CELL ACCESS RAMP DETAIL**  
Not To Scale



**4 TYPICAL BERM WALKWAY DETAIL**  
Not To Scale

**LEGEND**

- DRAINAGE FLOW DIRECTION
- CENTERLINE
- DRUMS

SCALE

Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2000 Revision	10/14/00	J.Pellier	K.Corrish	P.Corser
2	SEPTEMBER 1998 REVISION	8/98	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/20/98	J.Pellier	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/20/97	PGC/JPP	K.Corrish	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

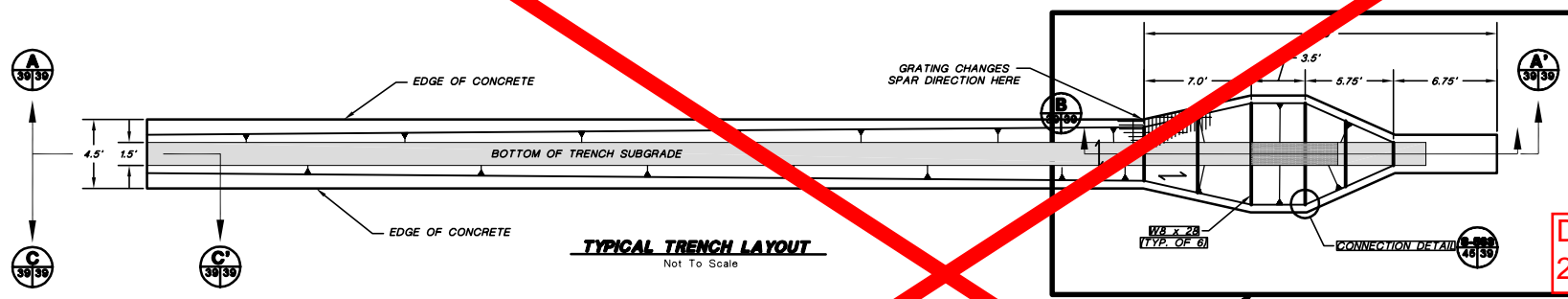
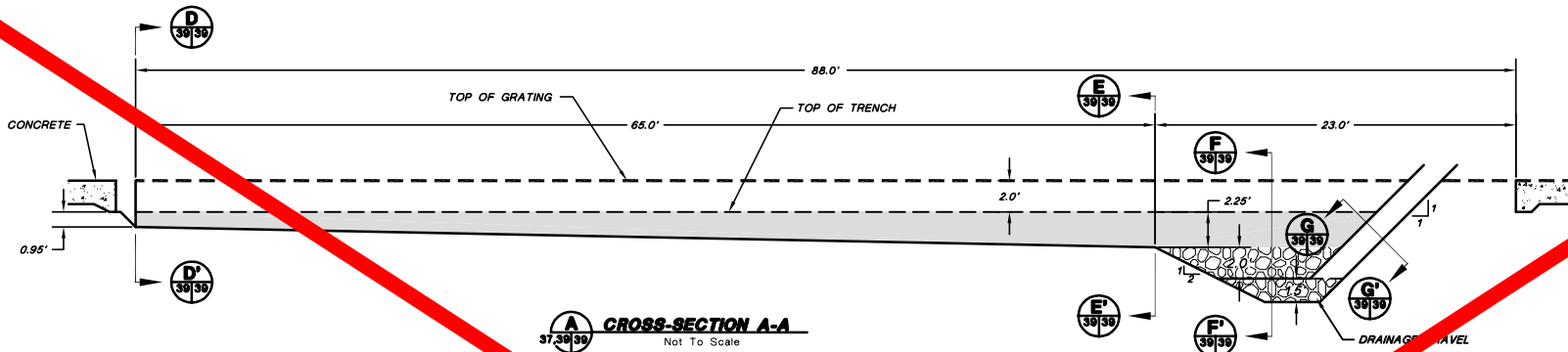
DRAWING TITLE: **DRUM HANDLING UNIT DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

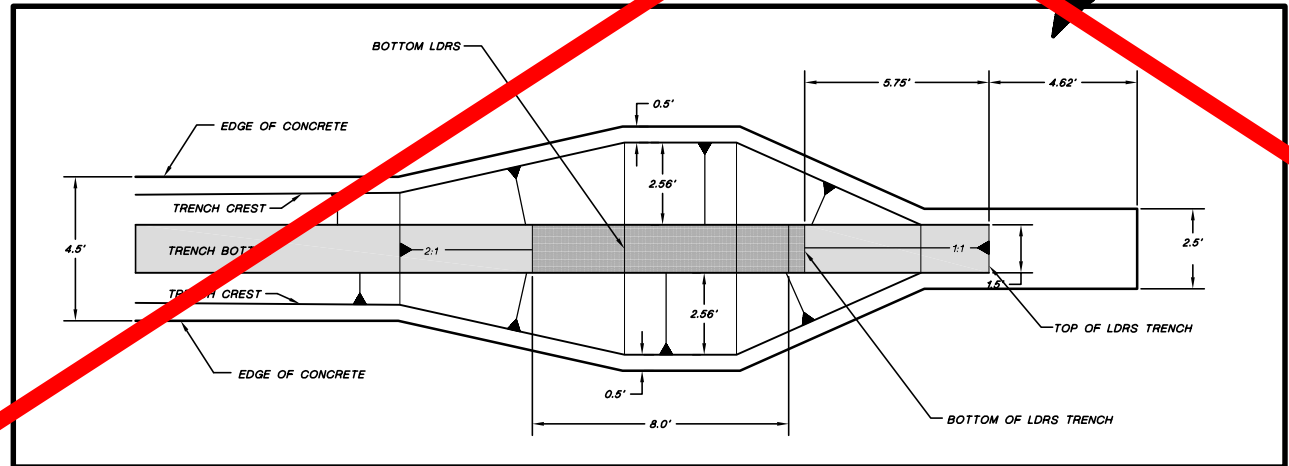
Sheet: \_\_\_\_\_ of \_\_\_\_\_ Sheets  
SCALE: \_\_\_\_\_ Drawing No. \_\_\_\_\_  
As Shown

NOTE: GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, INDEX, LEGEND AND GENERAL NOTES.

PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.  
Date: Patrick G. Corser, NM P.E. 12236

#	October 2000 Revise	10/14/00	J.Pellner	K.Covarrubias	P.Corser
1	NOVEMBER 1998 REVISION	10/20/98	J.Pellner	T.Smith	P.Corser
2	PART B PERMIT APPLICATION	12/12/97	PQC/JP	K.Covarrubias	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

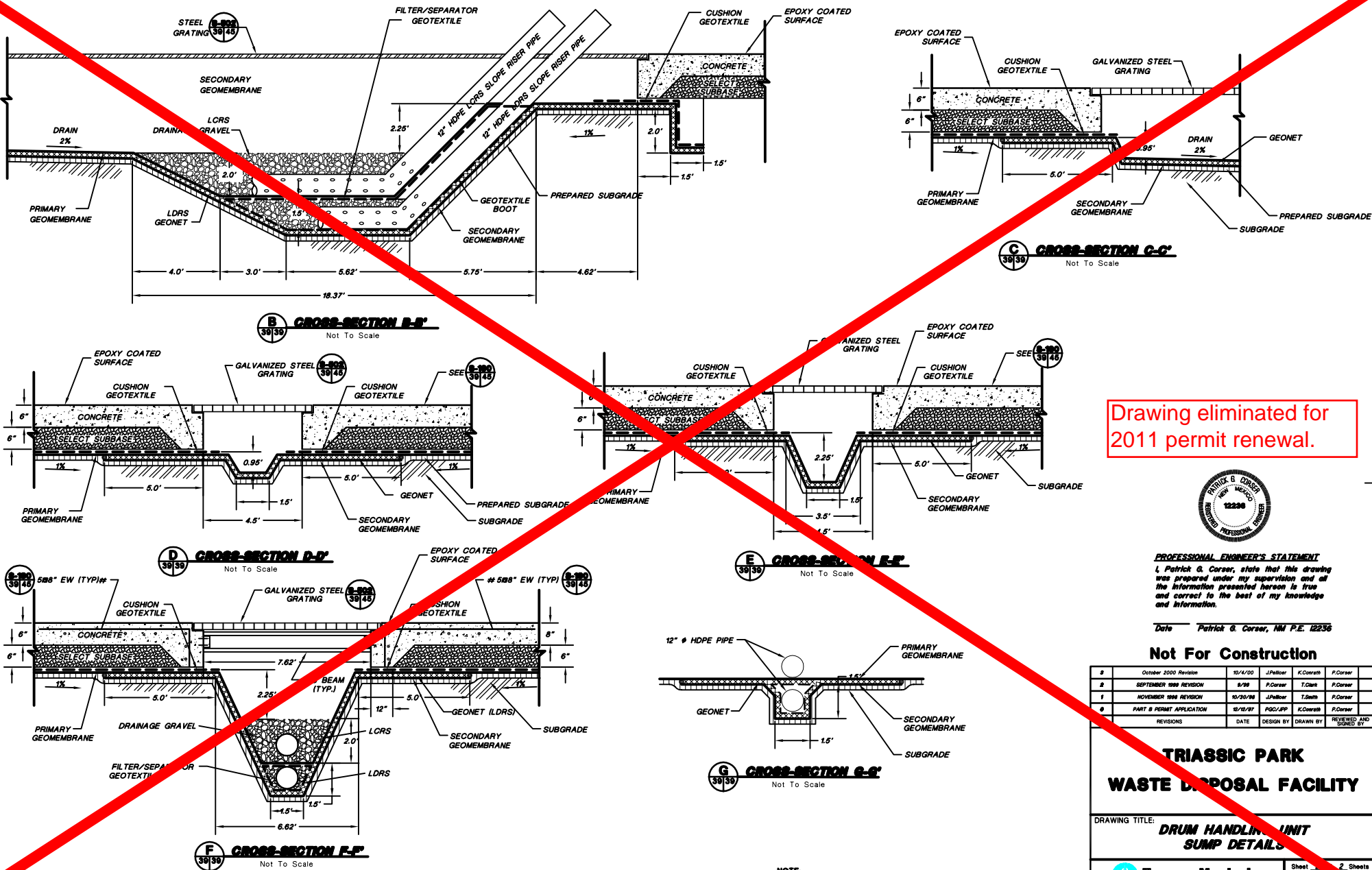
DRAWING TITLE:  
**DRUM HANDLING UNIT  
SUMP DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet: 2  
Drawing No.:  
SCALE: As Shown

NOTES:  
GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
INDEX, LEGEND AND GENERAL NOTES.

PROJECT NUMBER: 602-2020



Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and of the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

#	October 2000 Revision	10/14/00	J.Pellier	K.Covarrubias	P.Corser
#	SEPTEMBER 1998 REVISION	9/28	P.Corser	T.Clark	P.Corser
#	NOVEMBER 1998 REVISION	10/30/98	J.Pellier	T.Smith	P.Corser
#	PART B PERMIT APPLICATION	12/18/97	PGC/APP	K.Covarrubias	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND APPROVED BY

# TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE: **DRUM HANDLING UNIT SUMP DETAILS**

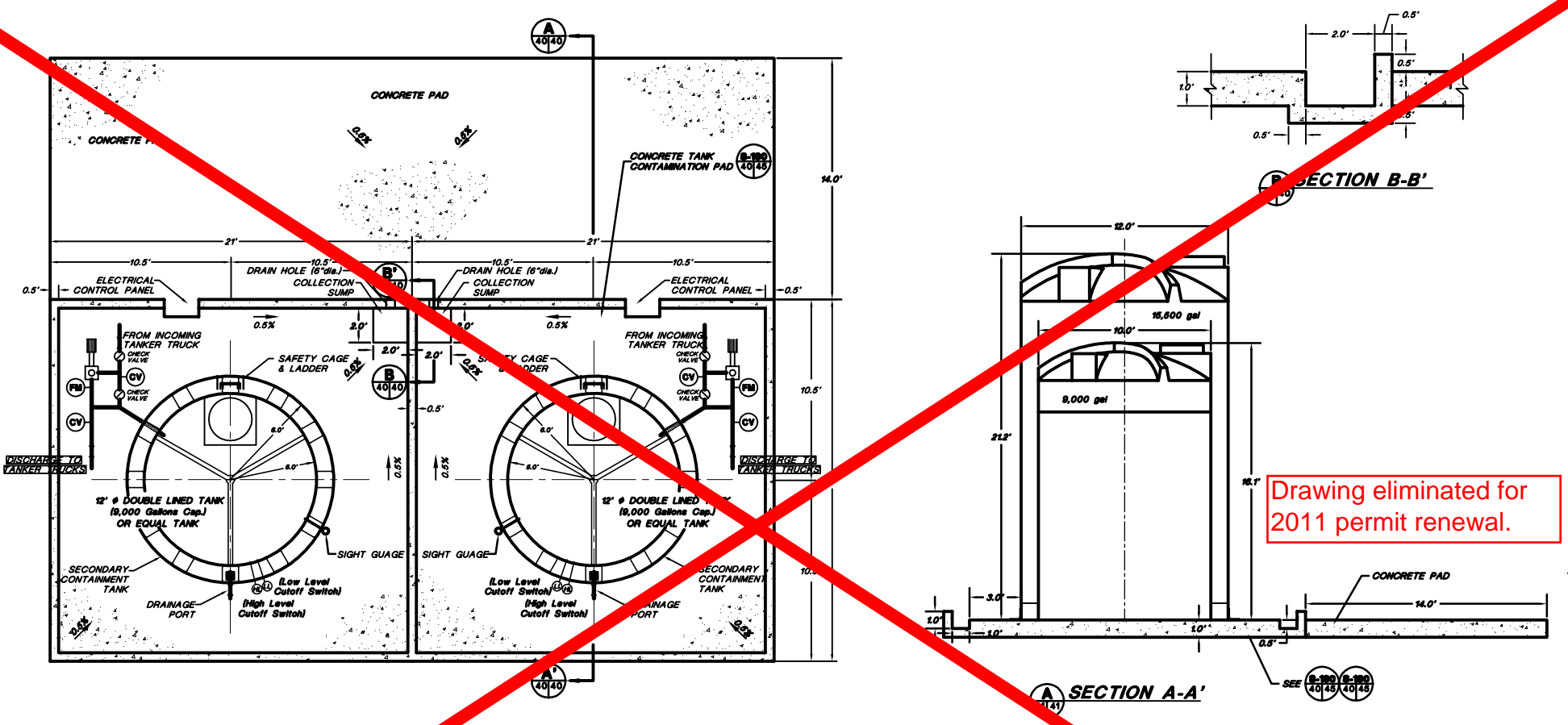
**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 2 of 2  
SCALE: As Shown  
Drawing No. 2

NOTE: FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

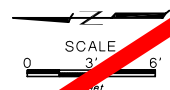


ARCAD FILE: 624.WISE.DWG PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

### LIQUID WASTE RECEIVING & STORAGE AREA

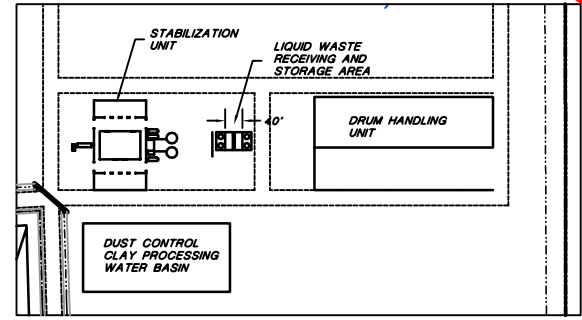


- NOTES:
- FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
  - FOR CONCRETE DETAILS SEE DRAWING 45.
  - TWO TANKS WILL BE CONSTRUCTED INITIALLY TO SERVICE SITE EXCAVATIONS. TWO ADDITIONAL TANKS MAY BE ADDED AT A LATER DATE TO ACCOMMODATE ANY INCREASES IN LIQUID WASTE VOLUME.
  - PIPING WILL BE INSTALLED ACCORDING TO API PUBLICATION 1615 (NOVEMBER 1999) OR ANSI STANDARD B 31.2 AND ANSI STANDARD B 31.4.
  - PIPING SPECIFICATION WILL BE DETERMINED IN THE FIELD.
  - DETAILS OF THE DOUBLE LINED TANKS ARE PROVIDED IN SHEET 2.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236



### LIQUID WASTE RECEIVING & STORAGE AREA LOCATION

### Not For Construction

NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVISED BY
4	October 2000 Revision	10/14/00	J.Pellor	K.Covarr	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosta	M.Merritt	P.Corser
2	SEPTEMBER 1998 REVISION	09/01/98	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/20/98	J.Pellor	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	02/20/97	PGC/PP	E.Simmons	P.Corser

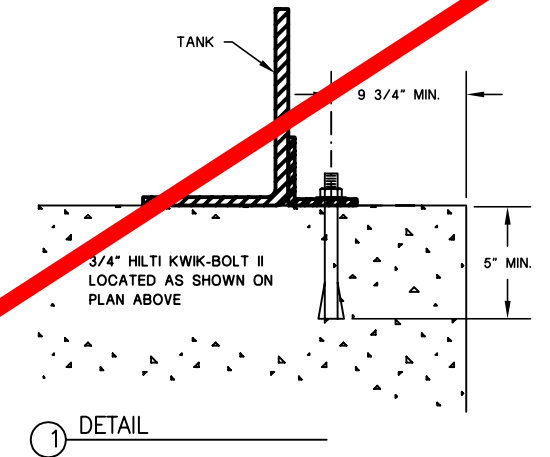
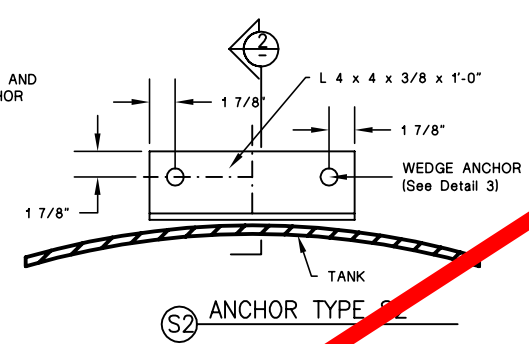
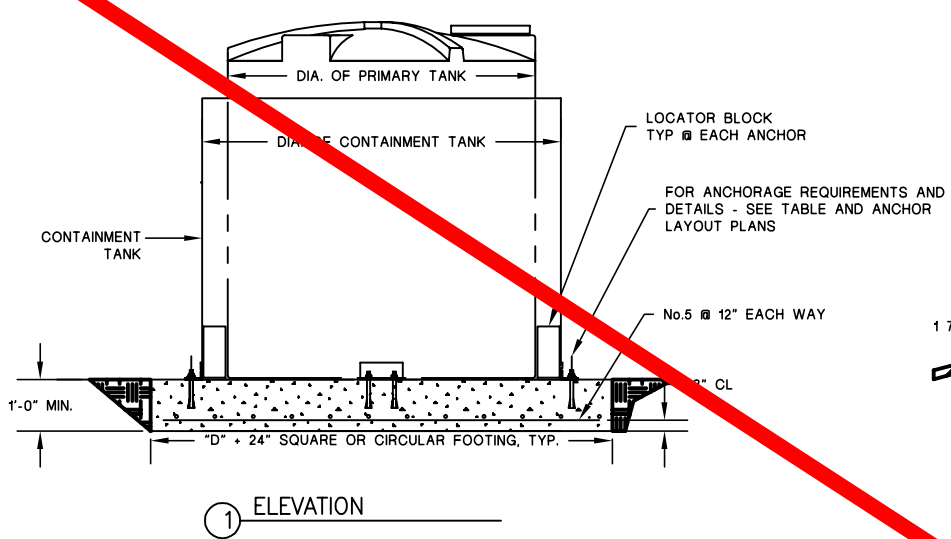
## TRIASSIC PARK WASTE DISPOSAL FACILITY

### LIQUID WASTE RECEIVING AND STORAGE UNIT LAYOUT

**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet No. 2 of 2  
 SCALE: 1" = 4'-0"  
 See Scale Bar

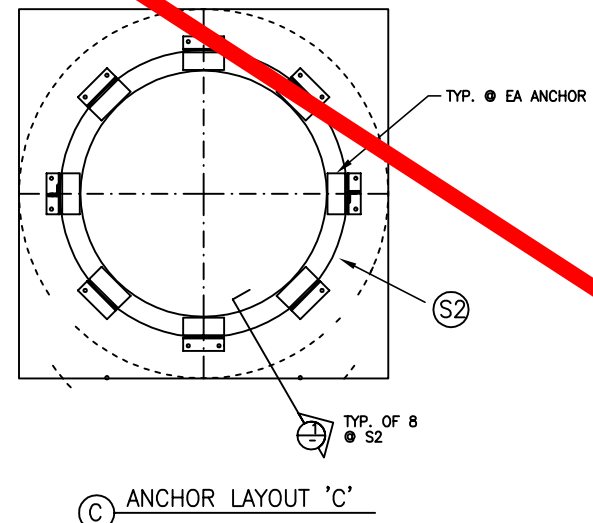
PROJECT NUMBER: 602-0200  
AUTOCAD FILE: 602-0200.dwg



TANK DATA							ANCHORAGE REQUIREMENTS	
PRIMARY MODEL NO.	SECONDARY MODEL NO.	CAPACITY (GALS.)	DIAMETER (FT.)	HEIGHT (FT.)	WEIGHT (LBS.)	ANCHOR LAYOUT	CABLE DIAMETER	
10 VCT 09K	12 VOC 15E	9000	10	16.08	7000	D		

**GENERAL NOTES**

- TANK RESTRAINT ANCHORAGES, CABLES DESIGNED FOR SEISMIC AND WIND FORCES PER THE UNIFORM BUILDING CODE, 1997 EDITION.
- MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE UBC AND THE FOLLOWING CRITERIA:  
 STRUCTURAL STEEL: ASTM A36  
 CONCRETE: COMPRESSIVE STRENGTH (f'c) = 2500 PSI, MAX. SLUMP = 4 INCHES  
 REINFORCEMENT: ASTM A615, YIELD STRENGTH (fy) = 40,000 PSI  
 ANCHORS: HILTI "KWIK-BOLT" OR WEJ-IT "ANKR-TITE". INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- REMOVE ALL SHARP EDGES THAT MAY DAMAGE OR CAUSE WEAR TO CABLES.
- ALL GALLONAGES AND DIMENSIONS ARE NOMINAL.



Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

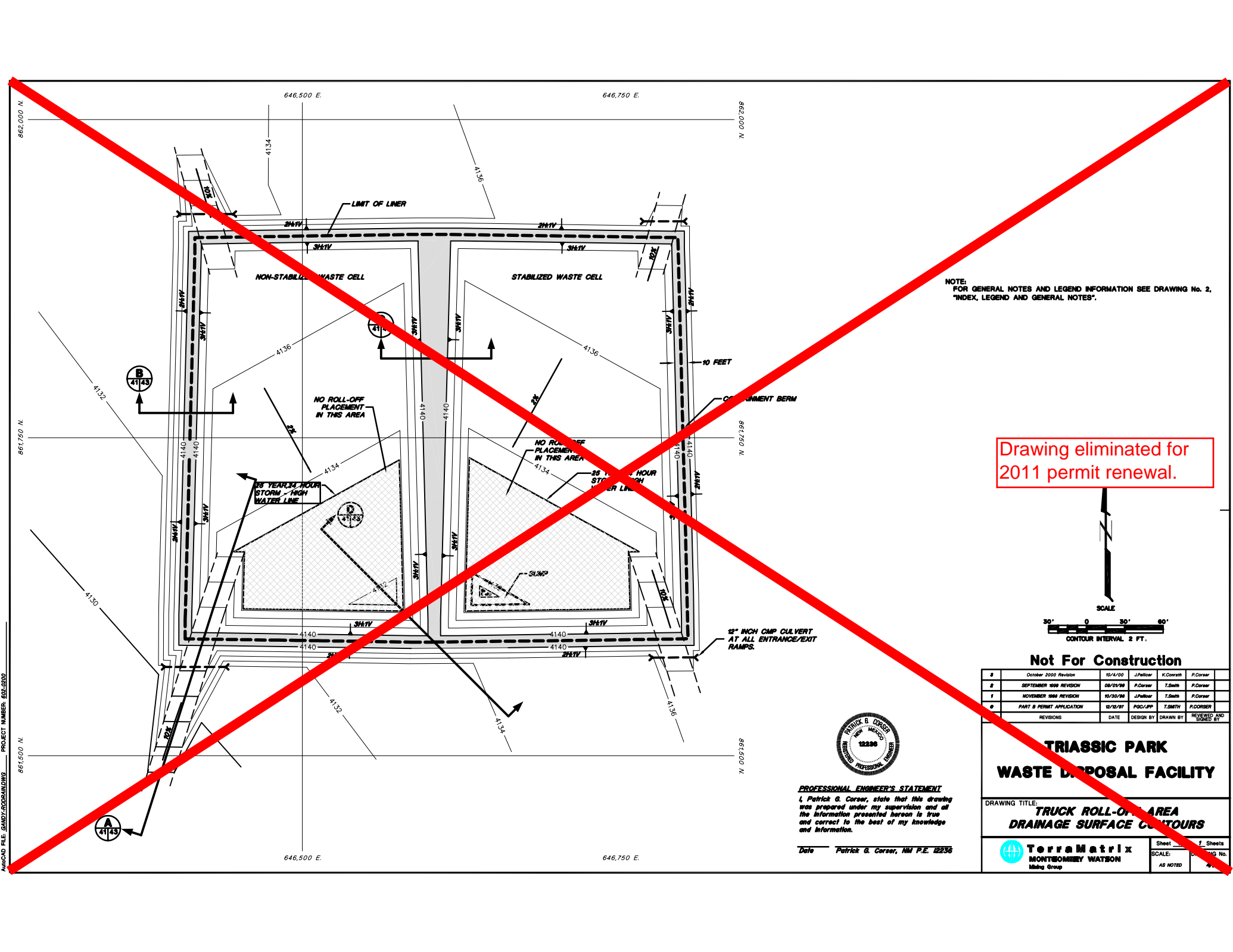
NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED BY
4	October 2000 Revision	10/4/00	J.Pellor	K.Covath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosta	M.Mitchell	P.Corser
2	SEPTEMBER 1998 REVISION	09/01/98	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/20/98	J.Pellor	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	03/20/97	PQC/JP	E.Simmons	P.Corser

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**LIQUID WASTE RECEIVING  
AND STORAGE UNIT LAYOUT**

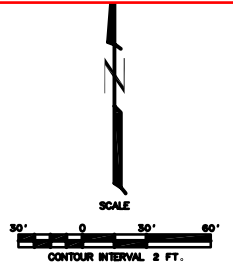
**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 2 of 2 Sheets  
 SCALE: Drawing No. 40



NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
"INDEX, LEGEND AND GENERAL NOTES".

Drawing eliminated for  
2011 permit renewal.



**Not For Construction**

#	October 2000 Revision	10/4/00	J.Pellor	K.Corrish	P.Corer
2	SEPTEMBER 1998 REVISION	08/01/98	P.Corer	T.Smith	P.Corer
1	NOVEMBER 1998 REVISION	10/30/98	J.Pellor	T.Smith	P.Corer
0	PART B PERMIT APPLICATION	02/21/97	PGC/PP	T.Smith	P.CORNER
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**TRUCK ROLL-OFF AREA  
DRAINAGE SURFACE CONTOURS**



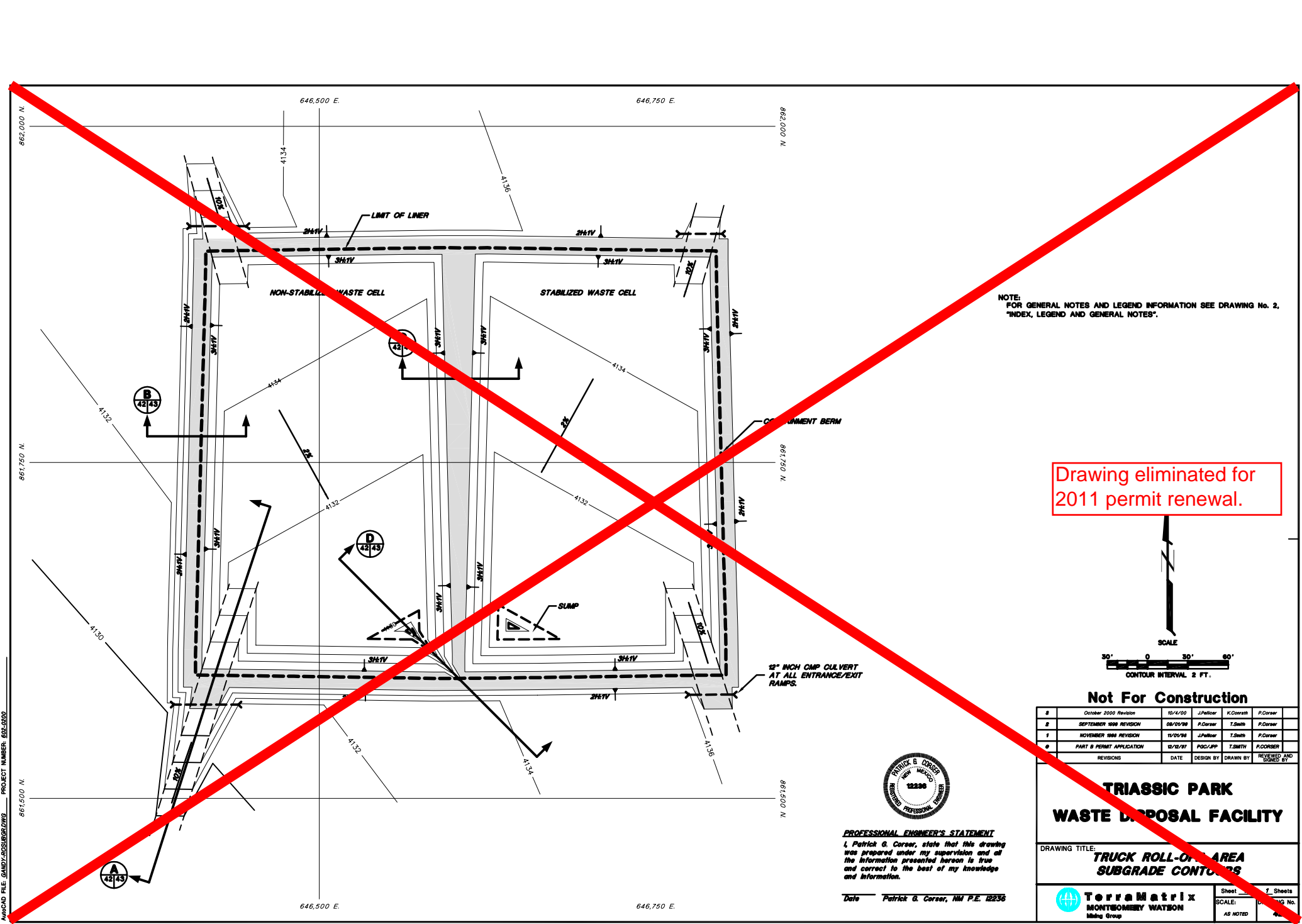
**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

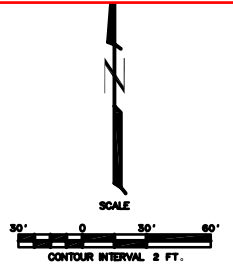
Sheet 1 of 1 Sheets  
SCALE: AS NOTED  
Drawing No. 12236

AutoCAD FILE: GANDY-CORRISH.DWG PROJECT NUMBER: 602-0200



NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2,  
"INDEX, LEGEND AND GENERAL NOTES".

Drawing eliminated for  
2011 permit renewal.



**Not For Construction**

#	October 2000 Revision	10/4/00	J.Pellor	K.Corrish	P.Corsar
2	SEPTEMBER 1998 REVISION	08/01/98	P.Corsar	T.Smith	P.Corsar
1	NOVEMBER 1998 REVISION	11/01/98	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	03/20/97	PGC/PP	T.Smith	P.CORSAR
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**TRUCK ROLL-OFF AREA  
SUBGRADE CONTOURS**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

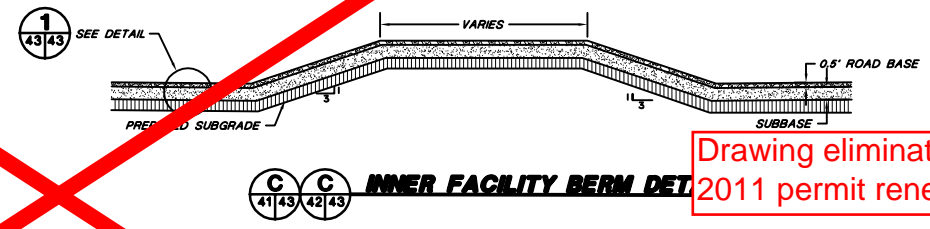
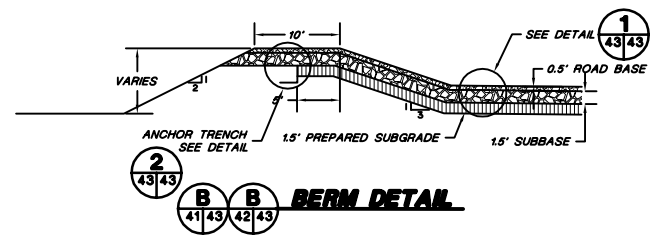
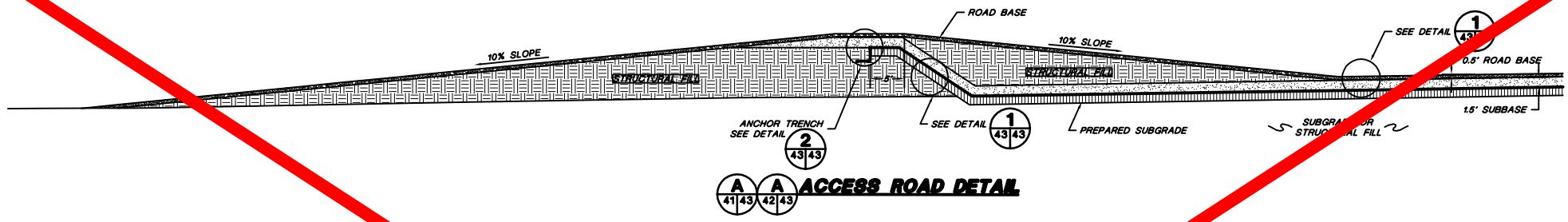
Date Patrick G. Corsar, NM P.E. 12236

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

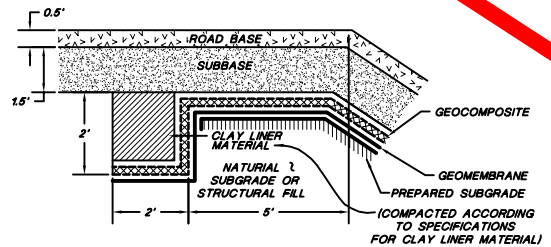
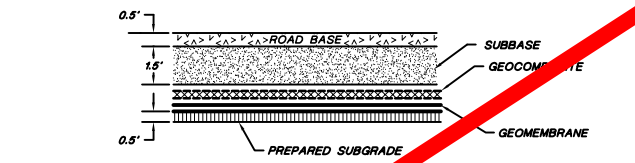
Sheet 1 of 1 Sheets  
SCALE: AS NOTED  
Drawing No. AS NOTED

AutoCAD FILE: GANDY\ACDSUBGR.DWG PROJECT NUMBER: 602-0200

PROJECT NUMBER: 602-0200  
 A:\CAD FILE: 2010\02\DWG



Drawing eliminated for 2011 permit renewal.



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date: Patrick G. Corser, NM P.E. 12236

**Not For Construction**

NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND APPROVED BY
2	SEPTEMBER 1998 REVISION	8/28	P. Corser	T. Clark	P. Corser
1	NOVEMBER 1998 REVISION	10/19/98	J. Peltier	T. Smith	P. Corser
0	PART B PERMIT APPLICATION	02/18/97	PCC/JPP	T. Smith	P. Corser

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

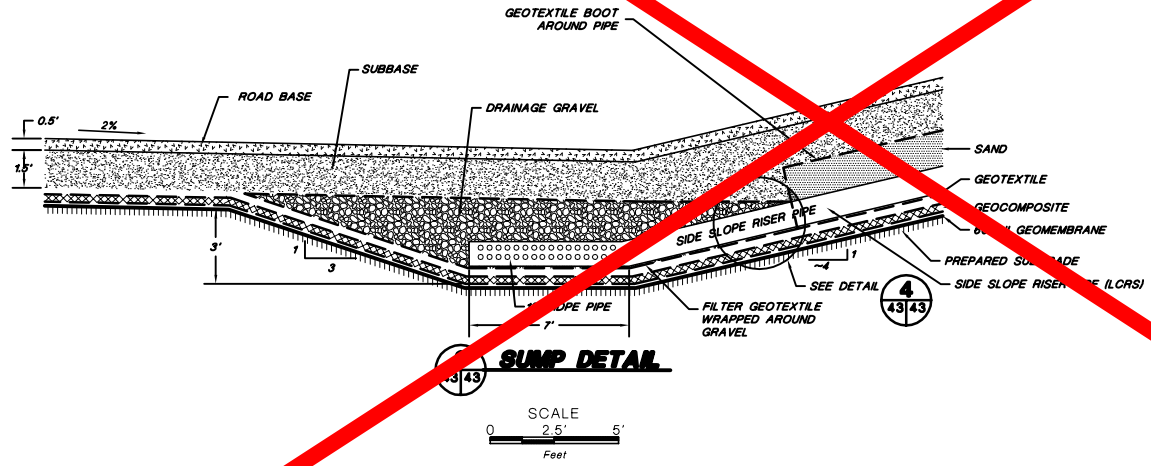
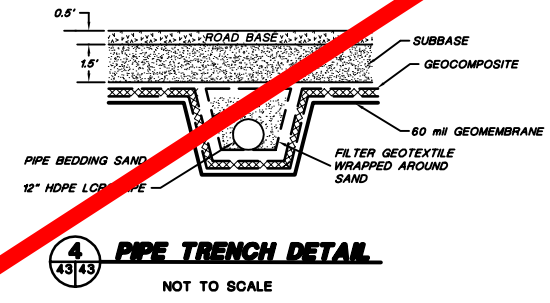
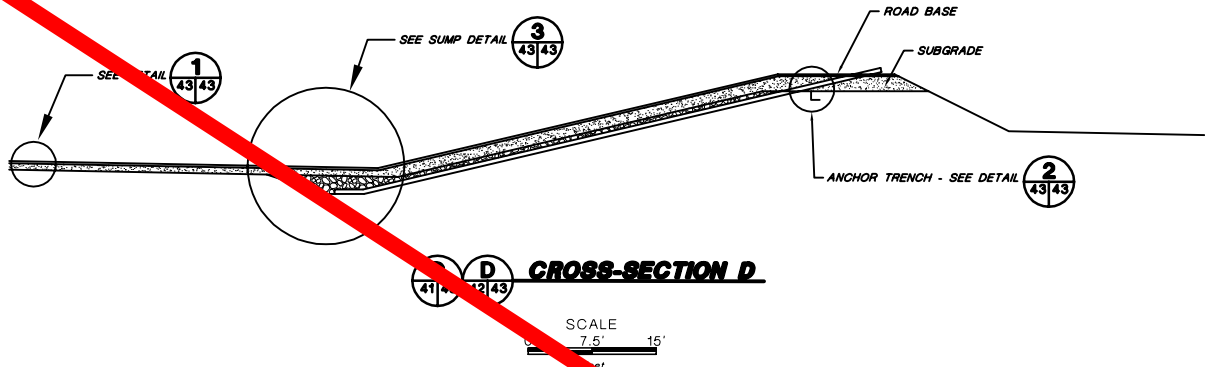
DRAWING TITLE:  
**TRUCK ROLL-OFF AREA LINER DETAILS**

**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet: 2  
 of 2  
 SCALE: As Shown  
 Drawing No. 43/43

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

Not For Construction

2	October 2000 Revision	10/14/00	J.Pellor	K.Corrith	P.Corsar
1	SEPTEMBER 1998 REVISION	8/28	P.Corsar	T.Glar	P.Corsar
1	NOVEMBER 1998 REVISION	11/10/98	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	02/28/97	PQC/JP	T.Smith	P.Corsar
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED AND



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented herein is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NM P.E. 12236

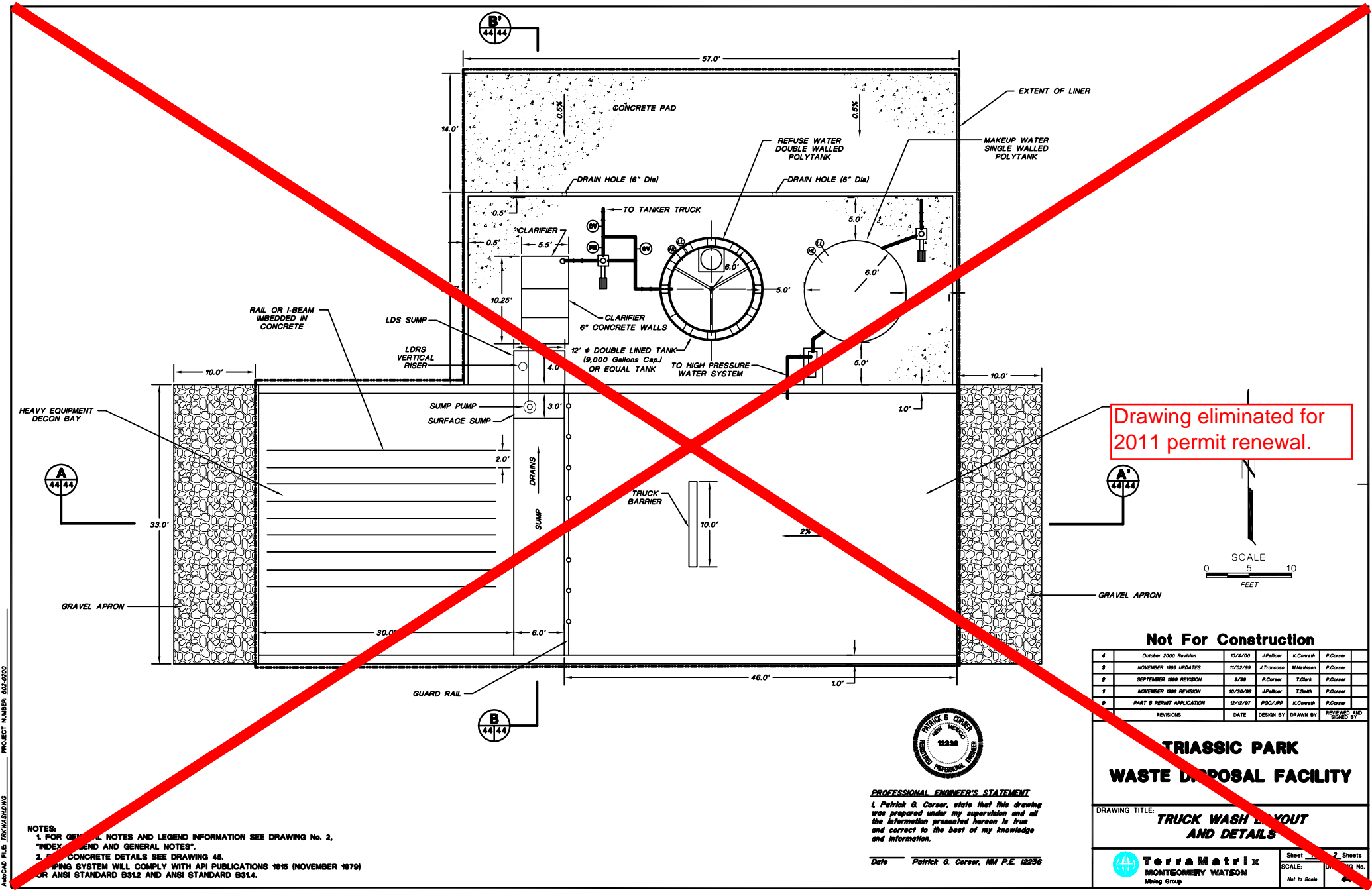
### TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE: TRUCK ROLL-OFF AREA LINER DETAILS

FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 2 of 2  
SCALE: As Shown  
Drawing No. 602-0200-02



Drawing eliminated for 2011 permit renewal.



**Not For Construction**

NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND APPROVED BY
4	October 2000 Revision	10/14/00	J.Pellor	K.Covath	P.Corsar
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosa	M.Mitchell	P.Corsar
2	SEPTEMBER 1998 REVISION	8/28	P.Corsar	T.Clark	P.Corsar
1	NOVEMBER 1996 REVISION	10/30/96	J.Pellor	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	03/10/97	PQC/JP	K.Covath	P.Corsar



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corsar, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corsar, NJ P.E. 12236

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE: **TRUCK WASH LAYOUT AND DETAILS**

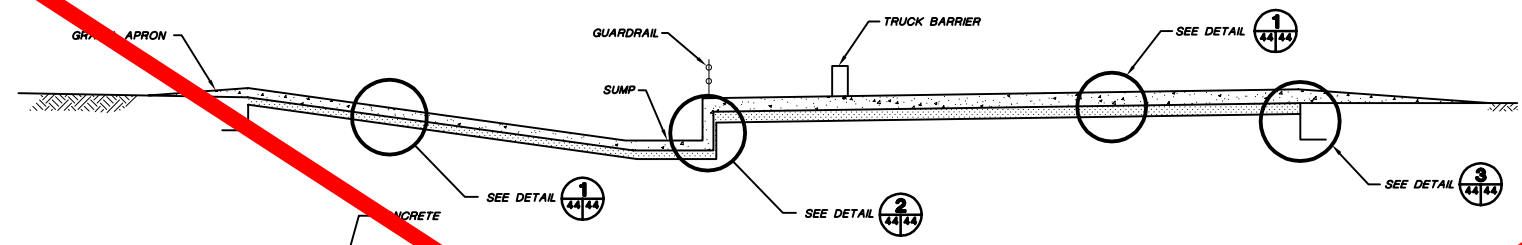
**TerraMatrix**  
 MONTGOMERY WATSON  
 Mining Group

Sheet 2 of 2  
 SCALE: Not to Scale  
 Drawing No. 4444

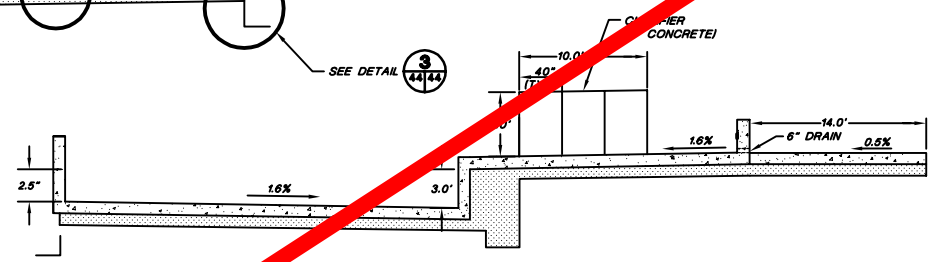
- NOTES:  
 1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX LEGEND AND GENERAL NOTES".  
 2. FOR CONCRETE DETAILS SEE DRAWING 46.  
 PUMPING SYSTEM WILL COMPLY WITH API PUBLICATIONS 1616 (NOVEMBER 1979) OR ANSI STANDARD B31.2 AND ANSI STANDARD B31.4.

PROJECT NUMBER: 602-0200

PROJECT NUMBER: 602-0200

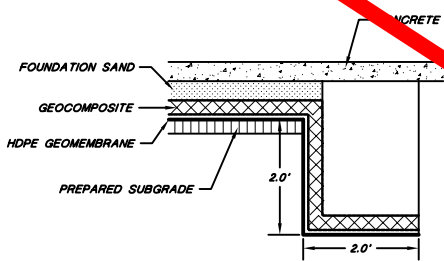


**TRUCK WASH CROSS-SECTION**

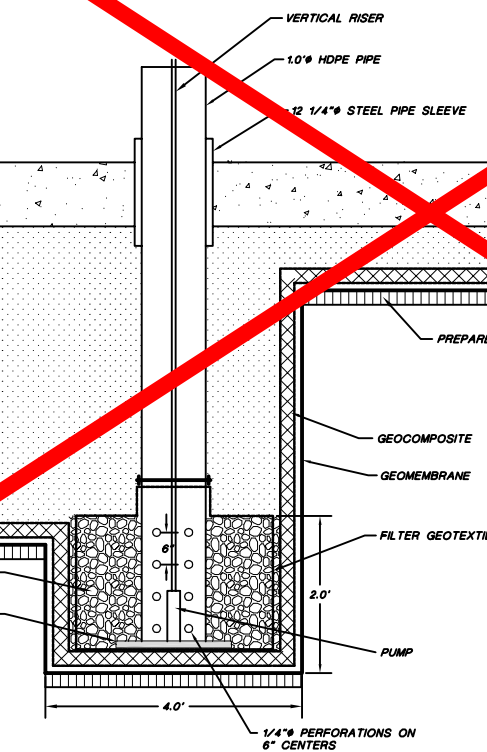


**TRUCK WASH SUMP CROSS-SECTION**

**TRUCK WASH ANCHOR TRENCH DETAIL**



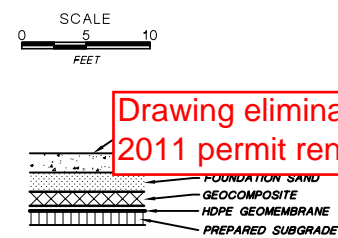
NOT TO SCALE



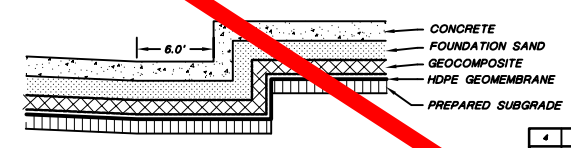
**TRUCK WASH LEAK DETECTION SUMP**

SCALE  
0 1 2  
FEET

**TRUCK WASH LINER DETAIL**



NOT TO SCALE



**TRUCK WASH SUMP DETAIL**

NOT TO SCALE



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NJ P.E. 12236

Drawing eliminated for 2011 permit renewal.

Not For Construction

4	October 2000 Revision	10/14/00	J.Peltier	K.Covarr	P.Corsar
3	NOVEMBER 1999 UPDATES	11/02/99	J.Trancosta	M.Melillo	P.Corsar
2	SEPTEMBER 1998 REVISION	9/29	P.Corsar	T.Clark	P.Corsar
1	NOVEMBER 1998 REVISION	10/30/98	J.Peltier	T.Smith	P.Corsar
0	PART B PERMIT APPLICATION	02/20/97	PGC/PP	K.Covarr	P.Corsar
REVISIONS		DATE	DESIGN BY	DRAWN BY	REVIEWED AND

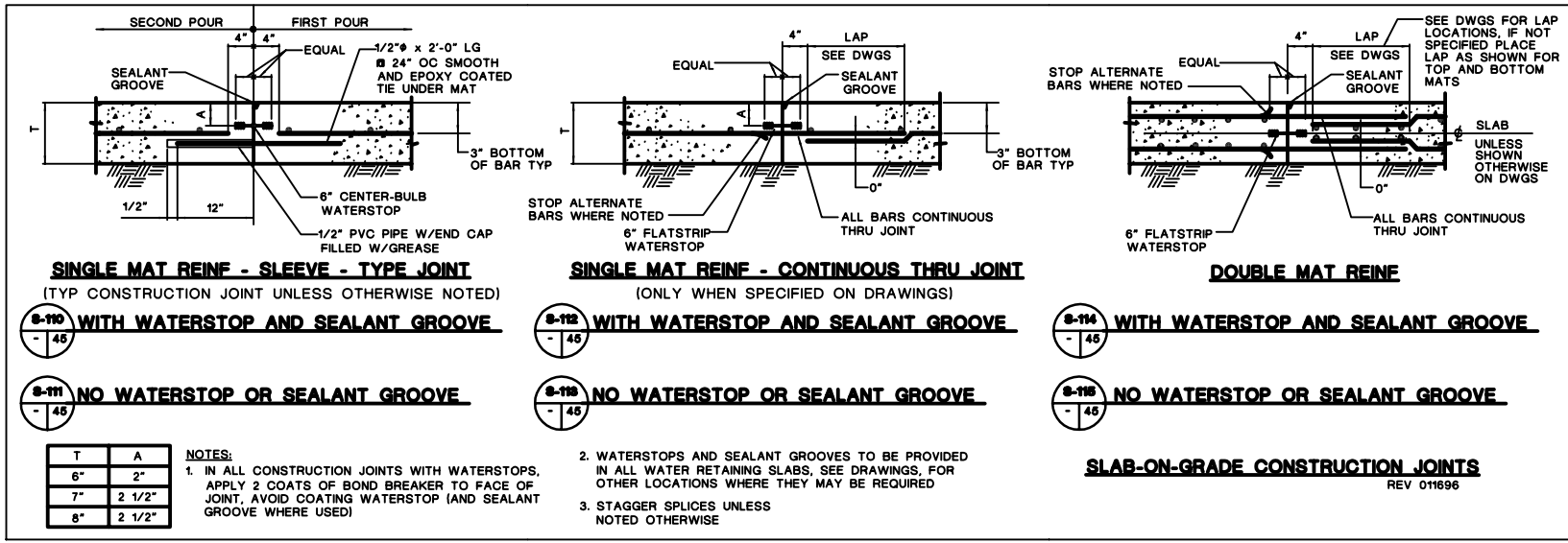
**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**TRUCK WASH LAYOUT  
AND DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 1 of 2  
SCALE: Not to Scale





**SINGLE MAT REIN - SLEEVE - TYPE JOINT**  
(TYP CONSTRUCTION JOINT UNLESS OTHERWISE NOTED)  
**S-110 WITH WATERSTOP AND SEALANT GROOVE**

**SINGLE MAT REIN - CONTINUOUS THRU JOINT**  
(ONLY WHEN SPECIFIED ON DRAWINGS)  
**S-112 WITH WATERSTOP AND SEALANT GROOVE**

**DOUBLE MAT REIN**  
**S-114 WITH WATERSTOP AND SEALANT GROOVE**

**S-111 NO WATERSTOP OR SEALANT GROOVE**

**S-113 NO WATERSTOP OR SEALANT GROOVE**

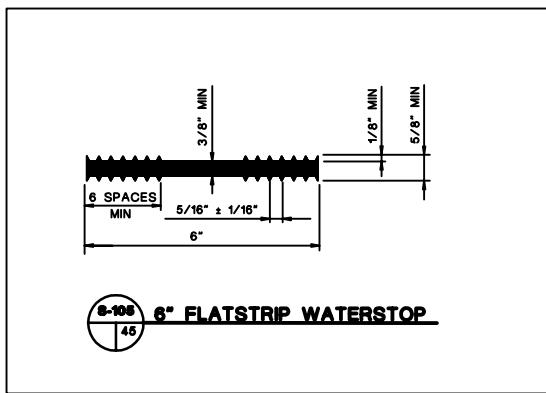
**S-115 NO WATERSTOP OR SEALANT GROOVE**

T	A
6"	2"
7"	2 1/2"
8"	2 1/2"

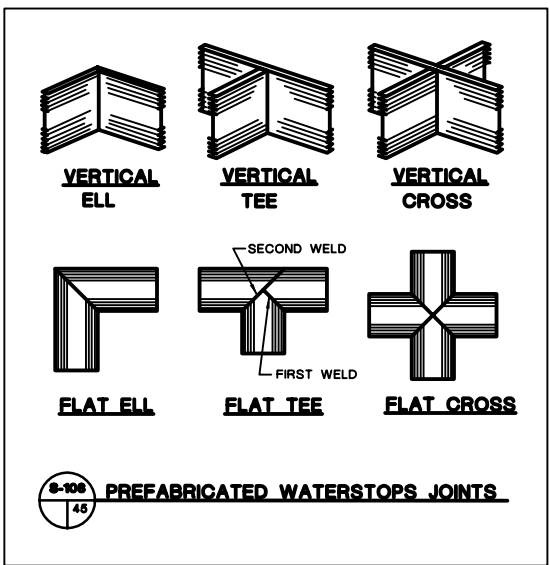
**NOTES:**  
1. IN ALL CONSTRUCTION JOINTS WITH WATERSTOPS, APPLY 2 COATS OF BOND BREAKER TO FACE OF JOINT, AVOID COATING WATERSTOP (AND SEALANT GROOVE WHERE USED)

2. WATERSTOPS AND SEALANT GROOVES TO BE PROVIDED IN ALL WATER RETAINING SLABS, SEE DRAWINGS, FOR OTHER LOCATIONS WHERE THEY MAY BE REQUIRED  
3. STAGGER SPLICES UNLESS NOTED OTHERWISE

**SLAB-ON-GRADE CONSTRUCTION JOINTS**  
REV 011696



**S-108 6\"/>**



**S-109 PREFABRICATED WATERSTOPS JOINTS**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

DETAIL/SECTION NUMBER  
**A**  
6

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED  
DRAWING No. WHERE DETAIL/SECTION IS SHOWN

**Not For Construction**

REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND CHECKED BY
1	October 2005 Revisions	10/14/05	J.Palmer	K.Cheers	J.Corser
2	PART B PERMIT APPLICATION	02/10/07	PGC/APP	JBEVER	P.CORSER

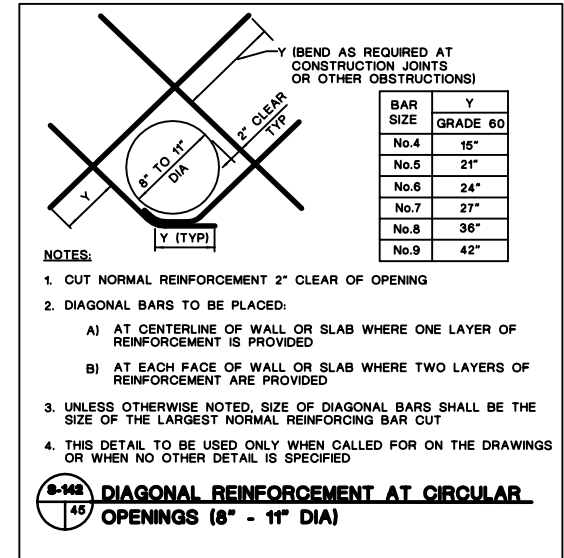
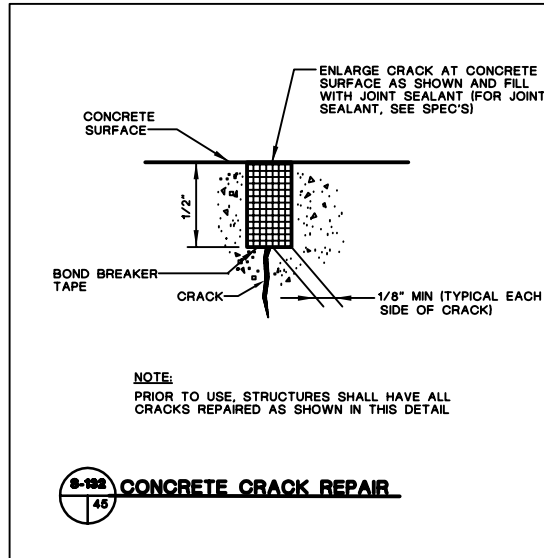
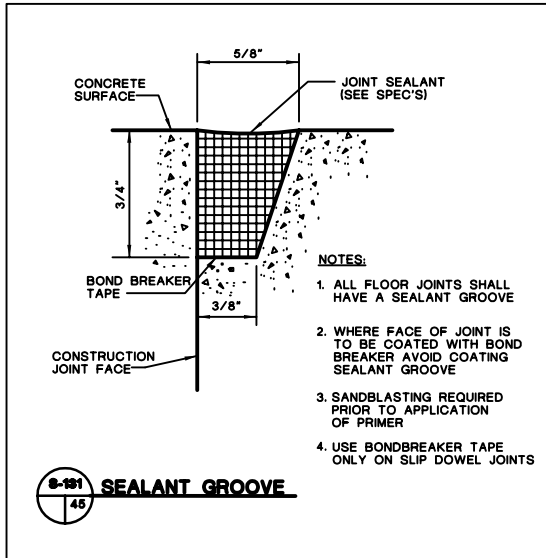
**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CONCRETE AND GRATING DETAILS**

	<b>Terramatrix</b>	Sheet <u>1</u> Of <u>5</u> Sheets
	<b>MONTBOMERY WATSON</b>	SCALE: DRAWING No. 45
Mining Group		AS NOTED

**NOTE:**  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

PROJECT NUMBER: 822-2329



**NOTE:**  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**DETAIL/SECTION NUMBER**  
A 8 6

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED

DRAWING No. WHERE DETAIL/SECTION IS SHOWN

**Not For Construction**

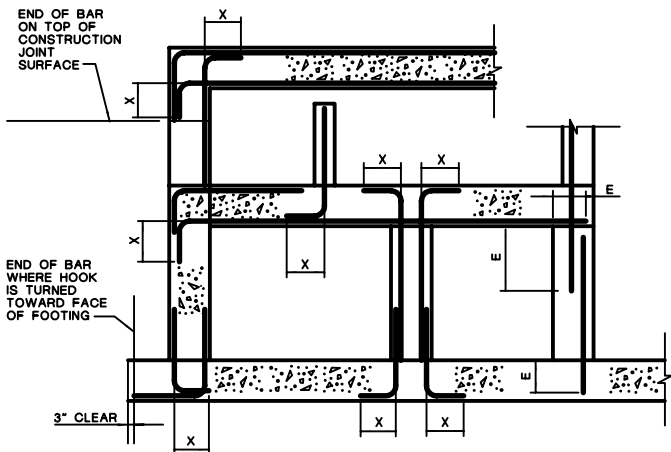
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND DESIGNED BY
1	October 2006 Revision	10/11/06	J.Palmer	K.Corsari	P.Corsar
0	PART B PERMIT APPLICATION	02/20/07	PGC/JPP	JBEVER	P.CORSER

**TRIASSIC PARK  
WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CONCRETE AND GRATING  
DETAILS**

**TerraMatrix**  
MONTGOMERY WATSON  
Mining Group

Sheet 2 Of 5 Sheets  
SCALE: AS NOTED  
DRAWING No. 45



**SECTION**

LENGTH (INCHES)			
BAR SIZE	HOOK X	LAP	EMBEDMENT E
No.3	6"	18"	12"
No.4	8"	18"	14"
No.5	10"	23"	18"
No.6	12"	28"	22"
No.7	14"	33"	25"
No.8	16"	SEE TABLE BELOW	SEE TABLE BELOW
No.9	19"	SEE TABLE BELOW	SEE TABLE BELOW
No.10	22"	SEE TABLE BELOW	SEE TABLE BELOW
No.11	24"	SEE TABLE BELOW	SEE TABLE BELOW

REBAR SIZE	LENGTH (INCHES)					
	FOR 1" TO < 2" CONCRETE COVER		FOR 2" TO < 3" CONCRETE COVER		FOR 3" AND LARGER CONCRETE COVER	
	REBAR SPACING (CENTER TO CENTER) < 8"	REBAR SPACING (CENTER TO CENTER) ≥ 8"	REBAR SPACING (CENTER TO CENTER) < 8"	REBAR SPACING (CENTER TO CENTER) ≥ 8"	REBAR SPACING (CENTER TO CENTER) < 8"	REBAR SPACING (CENTER TO CENTER) ≥ 8"
<b>LAP</b>						
No.8	62"	62"	37"	37"	37"	37"
No.9	99"	79"	69"	55"	49"	42"
No.10	125"	100"	88"	70"	63"	50"
No.11	154"	123"	108"	86"	77"	62"
<b>EMBEDMENT E</b>						
No.8	48"	48"	29"	29"	29"	29"
No.9	77"	61"	54"	43"	38"	33"
No.10	97"	77"	68"	54"	49"	39"
No.11	119"	95"	84"	67"	60"	48"

**NOTES:**

- USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE
- THE TABLES SHOWN ARE FOR f'c=4000 PSI AND fy=60,000 PSI
- MULTIPLY THE LAP & E SHOWN IN THESE TABLES BY 1.3 FOR WALL HORIZONTAL REBARS AND SLAB BARS WITH 12" OR MORE FRESH CONCRETE UNDERNEATH
- WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, LAP LENGTH SHALL BE THE LARGER OF:  
EMBEDMENT LENGTH OF LARGER BAR  
LAP LENGTH OF SMALLER BAR
- UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF No.11 AND LARGER BARS
- ALL DOWEL BARS SHALL EXTEND AN EMBEDMENT LENGTH E INTO ANOTHER MEMBER OR ACROSS A CONSTRUCTION JOINT UNLESS SHOWN TO SPLICE WITH OTHER BARS OR TO EXTEND TO THE FAR FACE OF THE MEMBER AND END WITH A STANDARD HOOK

**9-149 STANDARD 90° BAR HOOKS, EMBEDMENT LENGTHS AND LAP LENGTHS**

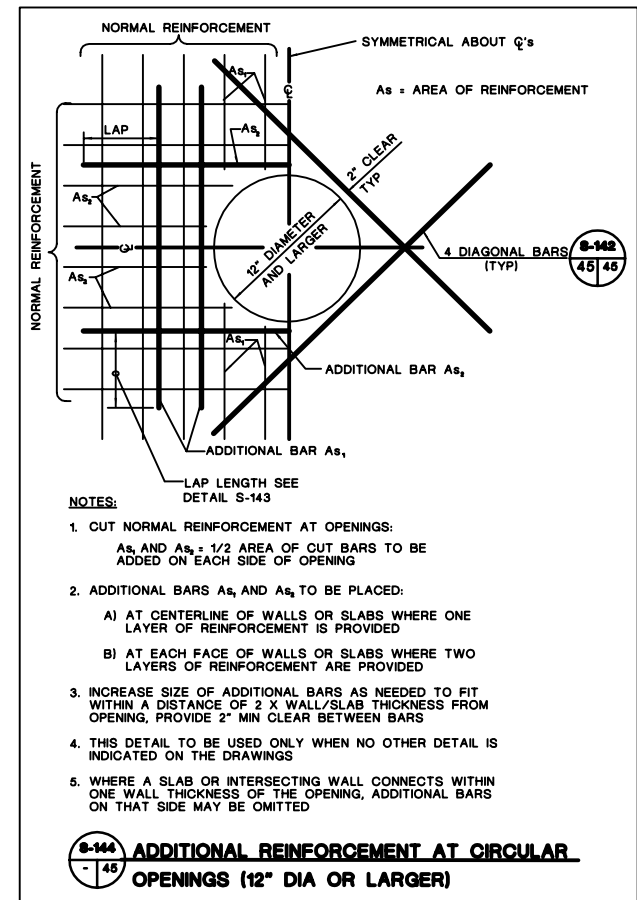
UNLESS OTHERWISE NOTED ON DRAWINGS

NOTE:  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED



DRAWING No. WHERE DETAIL/SECTION IS SHOWN



**NOTES:**

- CUT NORMAL REINFORCEMENT AT OPENINGS:  
As AND As<sub>2</sub> = 1/2 AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING
- ADDITIONAL BARS As<sub>1</sub> AND As<sub>2</sub> TO BE PLACED:  
A) AT CENTERLINE OF WALLS OR SLABS WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED  
B) AT EACH FACE OF WALLS OR SLABS WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED
- INCREASE SIZE OF ADDITIONAL BARS AS NEEDED TO FIT WITHIN A DISTANCE OF 2 X WALL/SLAB THICKNESS FROM OPENING, PROVIDE 2" MIN CLEAR BETWEEN BARS
- THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS
- WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE MAY BE OMITTED

**9-144 ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS (12" DIA OR LARGER)**



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

**Not For Construction**

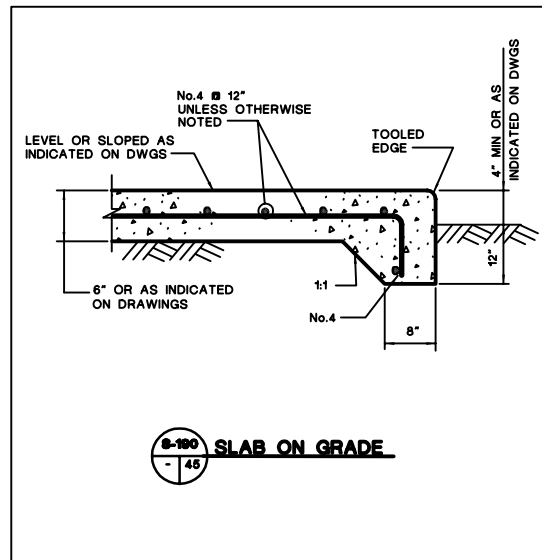
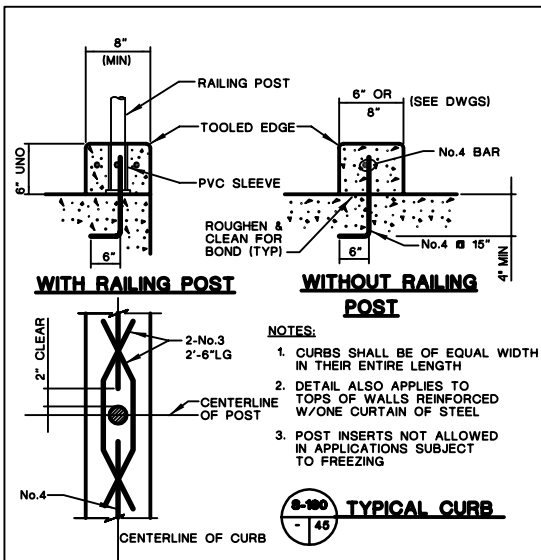
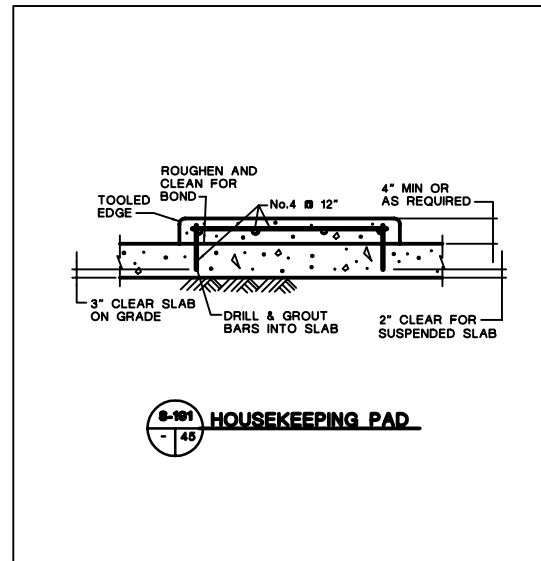
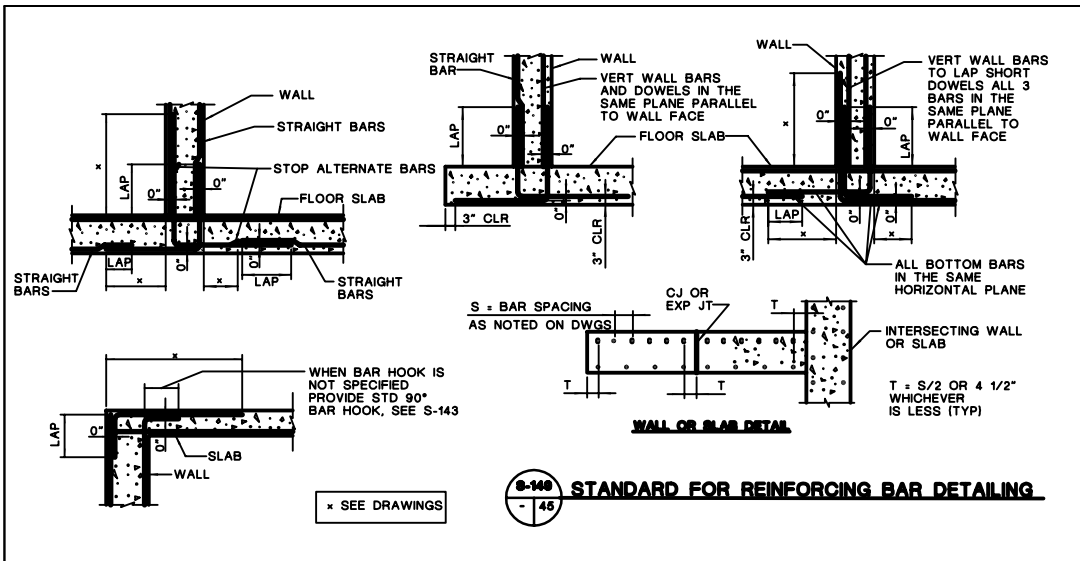
1	October 2000 Revision	10/1/00	J.Phillips	J.Cornish	J.Cornish
2	PART 3 PERMIT APPLICATION	12/12/97	PDC/JFP	J.METZ	P.CORSER
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

**TRIASSIC PARK WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CONCRETE AND GRATING DETAILS**

	<b>TerraMatrix</b>	Sheet 3 of 5 Sheets
	MONTGOMERY WATSON Mining Group	DRAWING No. 45

PROJECT NUMBER: 892-0200



**PROFESSIONAL ENGINEER'S STATEMENT**  
 I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

DETAIL/SECTION NUMBER  
 DRAWING No. WHERE DETAIL/SECTION IS REFERENCED  
 DRAWING No. WHERE DETAIL/SECTION IS SHOWN

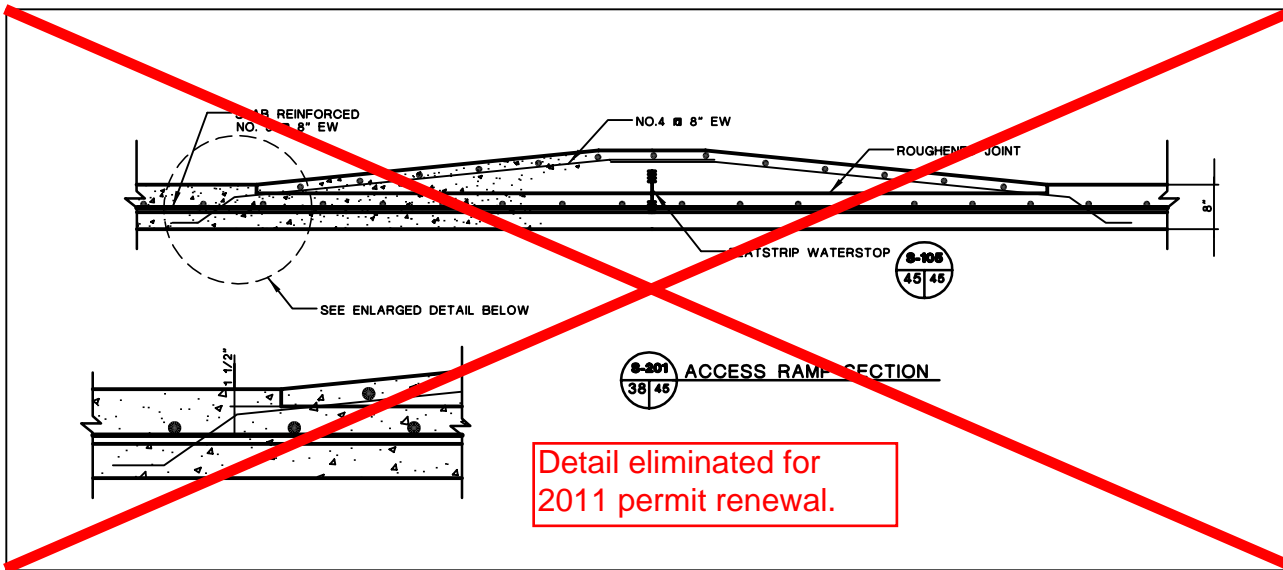
**Not For Construction**

1	October 2000 Revision	10/1/00	J.Patton	K.Cornish	P.Cornish
2	PART B PERMIT APPLICATION	5/12/01	PGD/LRP	J.BEVER	P.DONNER
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND CHECKED BY

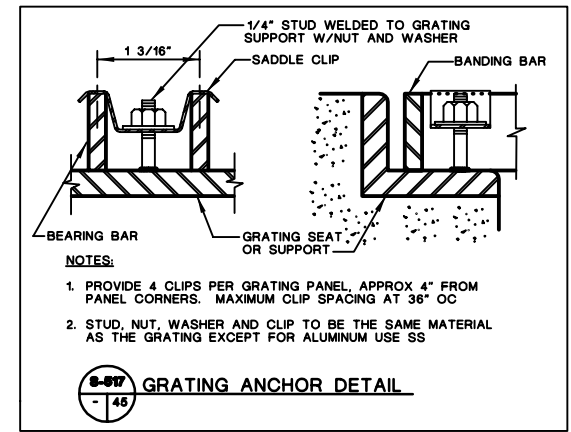
**TRIASSIC PARK  
 WASTE DISPOSAL FACILITY**

DRAWING TITLE:  
**CONCRETE AND GRATING  
 DETAILS**

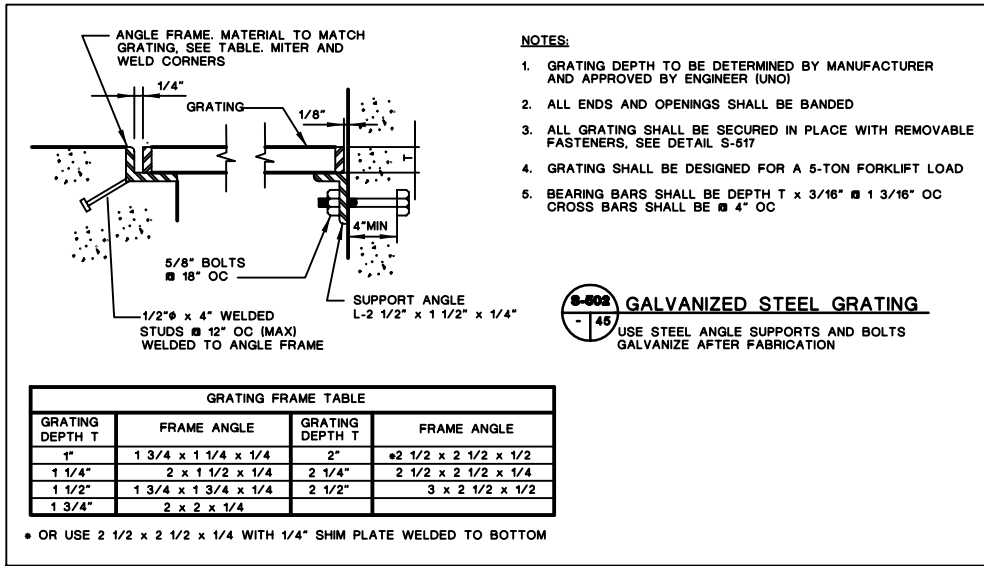
	<b>TerraMatrix</b> MONTGOMERY WATSON Mining Group	Sheet 4 of 5 Sheets
	SCALE: AS NOTED	DRAWING No. 45



Detail eliminated for 2011 permit renewal.



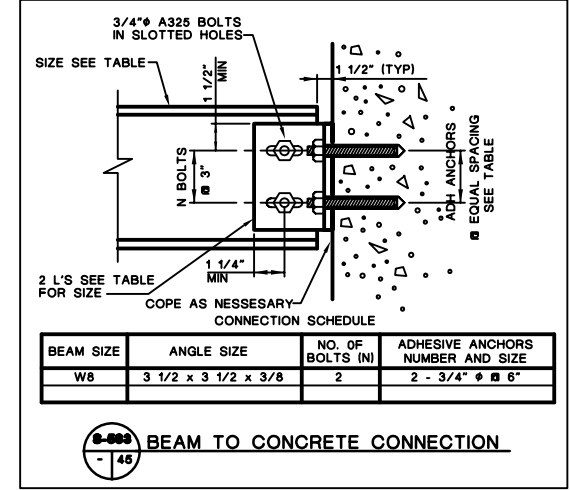
- NOTES:**
1. PROVIDE 4 CLIPS PER GRATING PANEL, APPROX 4" FROM PANEL CORNERS. MAXIMUM CLIP SPACING AT 36" OC
  2. STUD, NUT, WASHER AND CLIP TO BE THE SAME MATERIAL AS THE GRATING EXCEPT FOR ALUMINUM USE SS



- NOTES:**
1. GRATING DEPTH TO BE DETERMINED BY MANUFACTURER AND APPROVED BY ENGINEER (UNO)
  2. ALL ENDS AND OPENINGS SHALL BE BANDED
  3. ALL GRATING SHALL BE SECURED IN PLACE WITH REMOVABLE FASTENERS, SEE DETAIL S-617
  4. GRATING SHALL BE DESIGNED FOR A 5-TON FORKLIFT LOAD
  5. BEARING BARS SHALL BE DEPTH T x 3/16" # 1 3/16" OC CROSS BARS SHALL BE # 4" OC

GRATING FRAME TABLE			
GRATING DEPTH T	FRAME ANGLE	GRATING DEPTH T	FRAME ANGLE
1"	1 3/4 x 1 1/4 x 1/4	2"	#2 1/2 x 2 1/2 x 1/2
1 1/4"	2 x 1 1/2 x 1/4	2 1/4"	2 1/2 x 2 1/2 x 1/4
1 1/2"	1 3/4 x 1 3/4 x 1/4	2 1/2"	3 x 2 1/2 x 1/2
1 3/4"	2 x 2 x 1/4		

• OR USE 2 1/2 x 2 1/2 x 1/4 WITH 1/4" SHIM PLATE WELDED TO BOTTOM



BEAM SIZE	ANGLE SIZE	NO. OF BOLTS (N)	ADHESIVE ANCHORS NUMBER AND SIZE
W8	3 1/2 x 3 1/2 x 3/8	2	2 - 3/4" # 6"



**PROFESSIONAL ENGINEER'S STATEMENT**  
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

Date Patrick G. Corser, NM P.E. 12236

#	October 2008 Revision	10/14/08	J.Pattler	K.Corsish	P.Corsar
1	NOVEMBER 1999 UPDATES	11/02/99	J.Throcco	M.Mitchell	P.Corsar
2	PART B PERMIT APPLICATION	02/20/97	PBC/JPP	J.BEVER	P.CORSER
REV.	REVISIONS	DATE	DESIGN BY	DRAWN BY	CHECKED AND

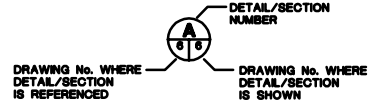
## TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:  
**CONCRETE AND GRATING  
DETAILS**

	<b>TerraMatrix</b> MONTGOMERY WATSON Mining Group		Sheet <u>  5  </u> Of <u>  5  </u> Sheets
	SCALE:	DRAWING No.	45

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**NOTE:**  
FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".



DRAWING No. WHERE DETAIL/SECTION IS REFERENCED

DRAWING No. WHERE DETAIL/SECTION IS SHOWN