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
Revision 2 - July 5, 2013

Prepared for:

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

Prepared by:

Domenici Law Firm P.C.
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Facility Property Plat

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Permit Renewal Application
October 17, 2011

Attachment L1

Design Drawings

Prepared for:

TRIASSIC PARK WASTE DISPOSAL FACILITY
Gandy Marley, Inc.
Post Office Box 1658
Roswell, New Mexico 88202

Prepared by:

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(970) 879-6260

Modified by:

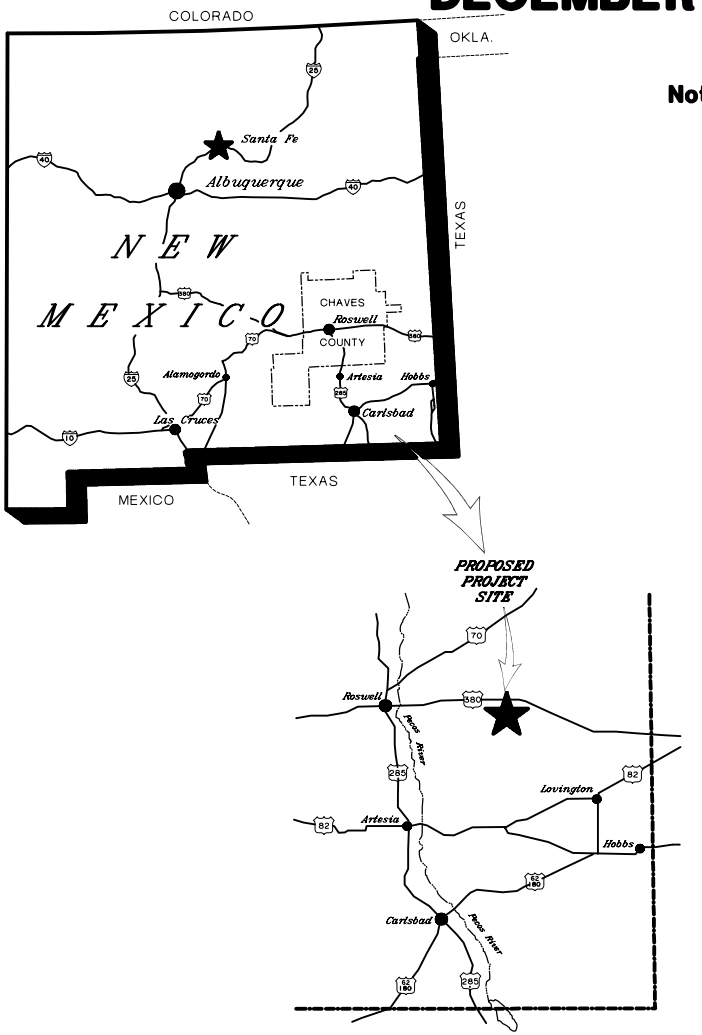
The New Mexico Environment Department
March 2002

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)



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3 - 5	FACILITY
6 - 27	LANDFILL
28 - 32	EVAPORATION PONDS
33 - 36	STABILIZATION UNIT
37 - 39	DRUM HANDLING UNIT
40	LIQUID WASTE STORAGE AREA
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PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

Sheet 1 Of 2 Sheets
DWG.: GANDY-COVER

DRAWING No.:	REV.
1	1

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)

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

LIST OF DRAWINGS

	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
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	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
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	18	VADOSE, LDRS, LCRS CROSS-SECTIONS AND DETAILS
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	23	FINAL COVER DETAILS
	24	INTERPHASE BERM SECTION
	25	SURFACE WATER CONTROL FEATURES *(2 Sheets)*
	26	TRAFFIC PLAN *(2 Sheets)*
	27	PERIMETER ROAD DETAILS
EVAPORATION POND	[illegible]	EVAPORATION POND SUBGRADE CONTOURS - PHASE [illegible]
	29	EVAPORATION POND CLAY LINER CONTOURS - PHASE 1
	30	EVAPORATION POND [illegible]IONS
	31	EVAPORATION POND TRUCK DISCHARGE [illegible]ON *(2 Sheets)*
	[illegible]	EVAPORATION POND LDRS AND VADOSE PLAN AND [illegible]
STABILIZATION UNIT	[illegible]	STABILIZATION UNIT GENERAL ARRANGEMENT
	34	STABILIZATION UNIT WASTE FLOW DIAGRAM
	35	STABILIZATION UNIT BIN DESIGN
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DRUM HANDLING UNIT	37	DRUM HANDLING UNIT GENERAL ARRANGEMENT
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	40	LIQUID WASTE RECEIVING AND STORAGE UNIT LAYOUT *(2 Sheets)*
TRUCK ROLL-OFF AREA	41	TRUCK ROLL-OFF AREA DRAINAGE SURFACE CONTOURS
	42	TRUCK ROLL-OFF AREA SUBGRADE CONTOURS
	43	TRUCK ROLL-OFF AREA LINER DETAILS *(2 Sheets)*
	[illegible]	TRUCK WASH LAYOUT AND DETAILS *(2 Sheets)*
	45	CONCRETE AND GRATING DETAILS *(5 Sheets)*

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

PREPARED BY:

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 Of 2 Sheets
DWG.: GANDY-COVER2

DRAWING No.:	REV.
1	1

LEGEND

GENERAL LINES

- FACILITY BOUNDARY AND ACTIVE FACILITY FENCE
- 4150 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 (5, 6, 8, 7)
- SURVEY CONTROL POINT (4)
- CULVERT
- NOMINAL DIAMETER
- DIRECTION OF FLOW

KEY

A 6/6 — A' 6/6 CROSS-SECTION LOCATION

A 6/6 DETAIL/SECTION NUMBER

DRAWING No. WHERE DETAIL/SECTION IS REFERENCED

DRAWING No. WHERE DETAIL/SECTION IS SHOWN

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

GENERAL NOTES

1. 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.
2. DESIGN DRAWINGS WERE PREPARED FOR PART "B" PERMIT SUBMITTAL.
3. DESIGN DRAWINGS TO BE USED IN CONJUNCTION WITH CONSTRUCTION SPECIFICATIONS AND CONSTRUCTION QUALITY ASSURANCE PLAN.
4. 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.
5. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST, 1997, KOOGLE & POULS ENGINEERING.
6. PROTECTIVE SOIL CONSISTS OF SELECT ONSITE SOILS.
7. GEOCOMPOSITE CONSISTS OF GEOTEXTILE BONDED TO GEONET.
8. GEOMEMBRANE IS A MINIMUM 60 mil HDPE.
9. 48-in. WIDE USED CONVEYOR BELT SHALL NOT HAVE STEEL WIRE REINFORCEMENTS OR OTHER PROTRUSIONS WHICH MAY DAMAGE UNDERLYING GEOMEMBRANE.

[redacted]

12. TOTAL CAPACITY OF COLLECTION BASIN POND NEEDED: 6.0 AC-FT.
13. ELECTRICAL AND PIPING TO BE DESIGNED BY CONTRACTOR. SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW AND APPROVED BY ENGINEER.
14. ALL ANCILLARY EQUIPMENT WILL BE SUPORTED 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.
15. ALL GEOSYNTHETIC MATERIALS HAVE BEEN EXAGGERATED FOR CLARITY.
16. ALL CONCRETE SURFACES WHICH ARE EXPOSED TO POTENTIALLY HAZARDOUS MATERIALS AND ARE INTENDED AS CONTAINMENT FEATURES OR DIP PADS SHALL BE EPOXY COATED.
17. ALL PIPING WITHIN LINED FACILITIES WILL BE SINGLE WALL PIPE. DOUBLE WALL PIPE WILL BE USED FOR ALL PIPING OUTSIDE OF LINED FACILITIES.
18. LCRS - LEACHATE COLLECTION REMOVAL SYSTEM
19. LDRS - LEAKAGE DETECTION REMOVAL SYSTEM
20. USCS - UNIFIED SOIL CLASSIFICATION SYSTEM IS A SYSTEM WHICH CLASSIFIES SOIL TYPES ACCORDING TO SOIL TEXTURE AND GRAIN SIZE.
21. CONCRETE STRUCTURAL DETAILS ARE SHOWN ON DRAWING 45. THESE APPLY TO ANY CONCRETE SHOWN THROUGHOUT THE DRAWING SET.
22. DAILY COVER WILL CONSIST OF SOIL SPREAD ON TOP OF THE LANDFILL WASTE PLACEMENT AREA TO A DEPTH OF APPROXIMATELY 0.5 FEET.
23. PERMIT APPLICATION APPLIES TO PHASE 1A.

General notes 10 and 11 eliminated for 2011 permit renewal.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	November 1999 Updates	11/02/99	J.Troncoso	M.Mathisen	P.Corser
2	September 1999 Revision	9/7/99	P.Corser	K.Conrath	P.Corser
1	November 1998 Revision	10/29/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser

PATRICK G. CORSER — NEW MEXICO — 12236 — REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:

INDEX, LEGEND AND GENERAL NOTES

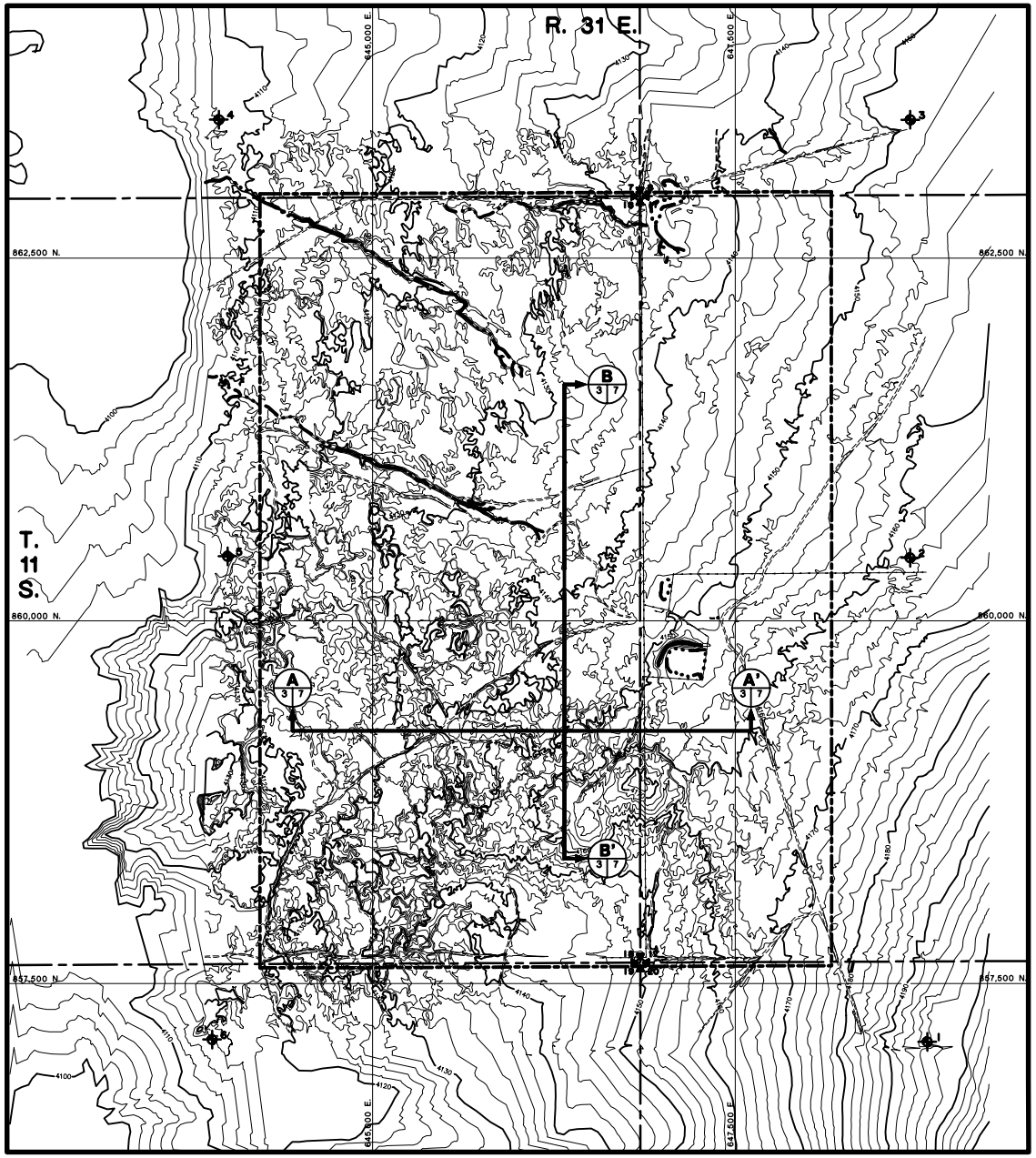
TerraMatrix — MONTGOMERY WATSON Mining Group

Sheet 1 Of 1 Sheets

SCALE: Not to Scale

DRAWING No. 2

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



SURVEY CONTROL POINTS

CONTROL POINT NUMBER	NORTHING	EASTING	ELEVATION
1	857,099.19	648,823.16	4,197.55
2	860,435.24	648,704.91	4,161.92
3	863,453.55	648,706.31	4,152.96
4	863,454.95	643,940.29	4,105.99
5	860,445.06	644,000.06	4,113.51
6	857,114.96	643,893.71	4,116.20

NOTES:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
2. TOPOGRAPHY FROM AERIAL SURVEY PERFORMED AUGUST 1997 BY KOOGLE AND POULS ENGINEERING. ADDITIONAL TOPO TAKEN FROM MESCALERO POINT, NEW MEXICO 7.5 MINUTE SERIES, DATED 1973.
3. SURVEY CONTROL POINTS SET IN FIELD WITH REBAR AND CAP BY JOHN WEST ENGINEERING COMPANY, AUGUST 1997.

N

SCALE
400' 0 400' 800'
CONTOUR INTERVAL 2 FT.

Not For Construction

REV. NO.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	October 2000 Revision	10/1/00	J.Pelliser	K.Conrath	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

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

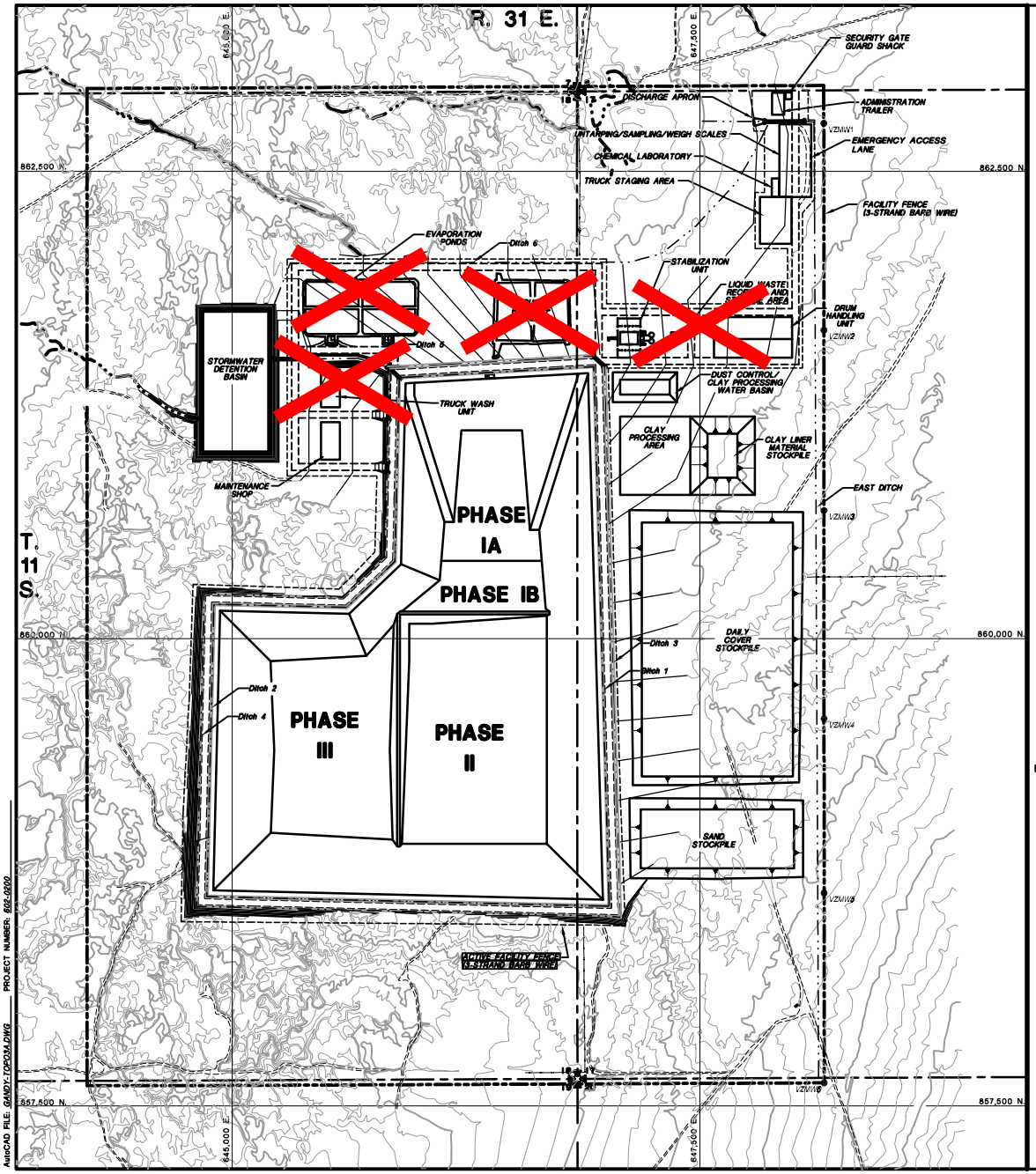
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
EXISTING TOPOGRAPHY

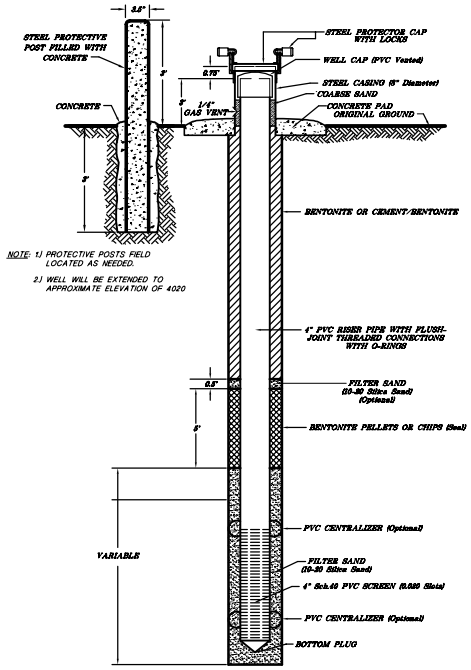
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 3

AutoCAD FILE: GANDY-TOPO1DWG PROJECT NUMBER: 609.0020



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

LEGEND

- EXISTING CONTOUR
- REGRADED CONTOUR
- VZMW2 ● 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.

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.

SCALE
300' 0 300' 600'
CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	November 1999 Updates	11/02/99	J.Troncoso	M.Mathisen	P.Corser
1	November 1999 revision	10/29/99	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

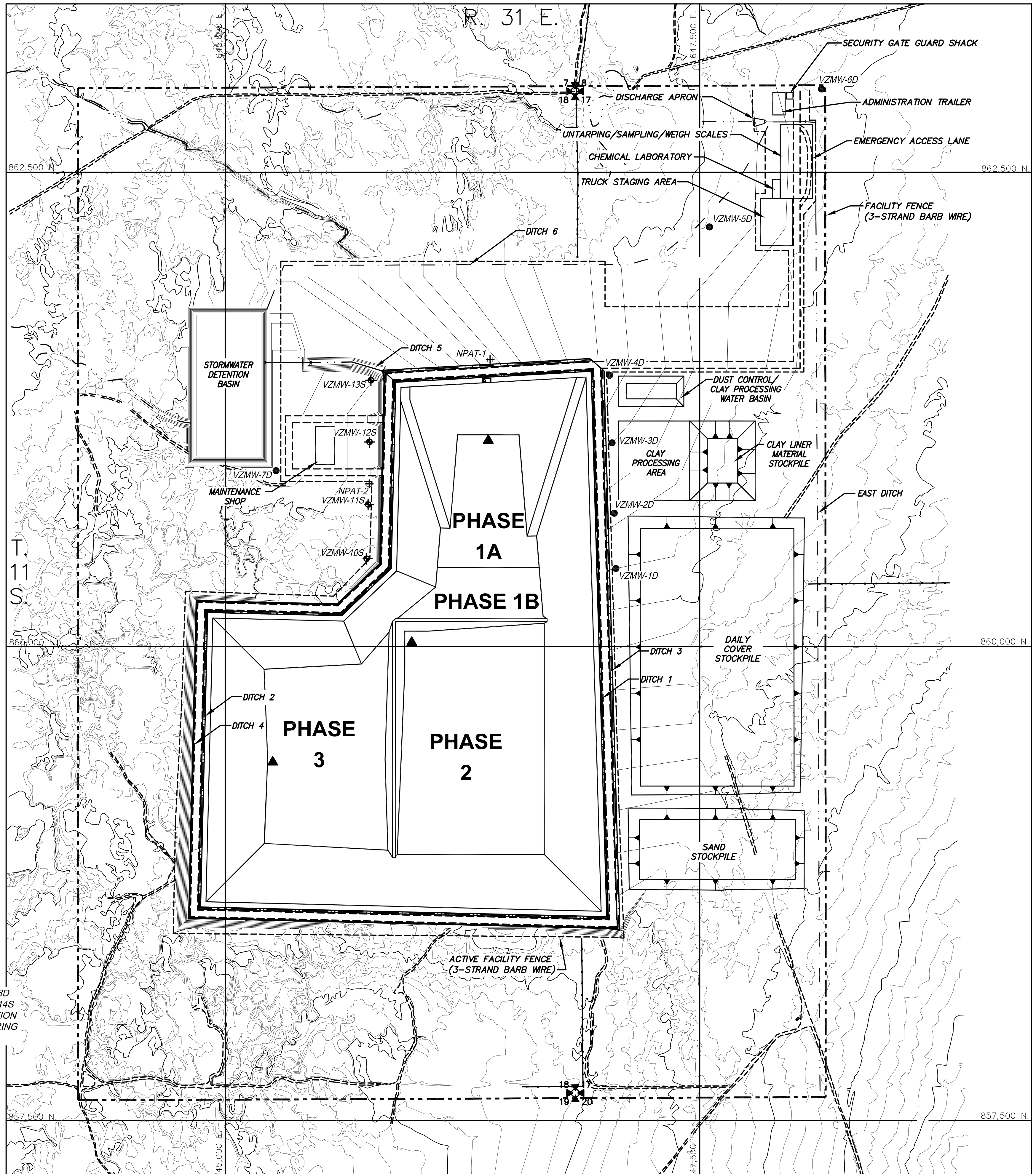
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
FACILITY LAYOUT

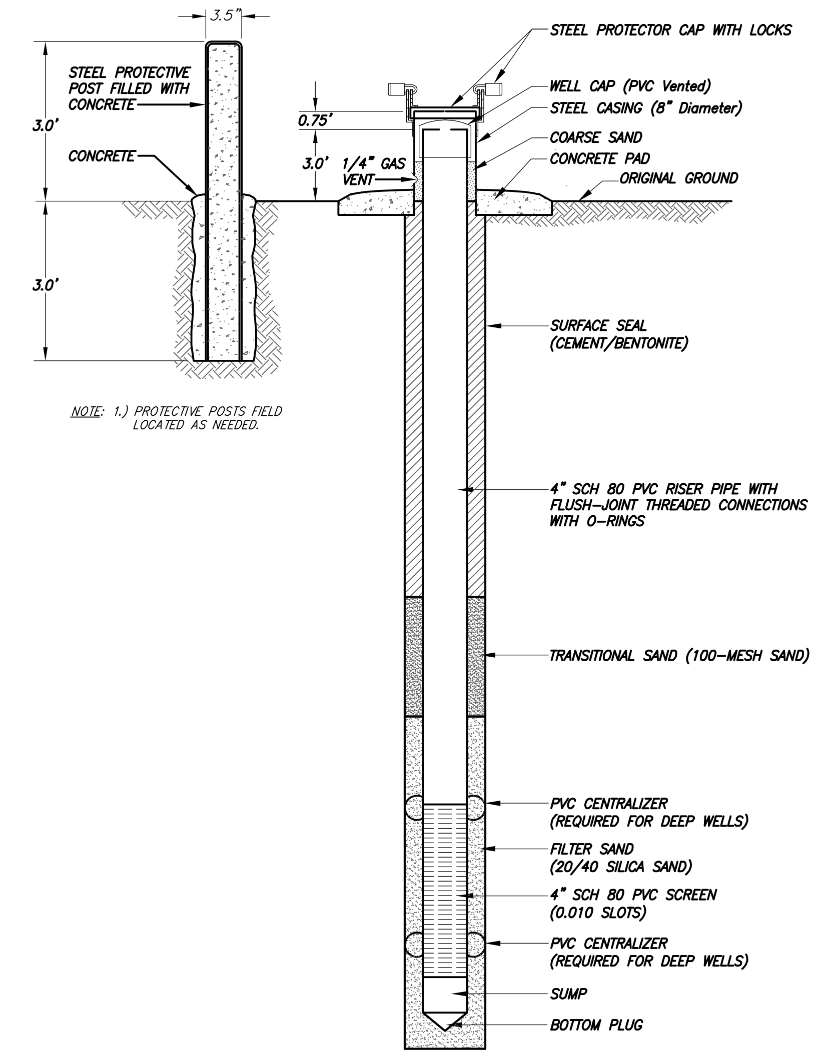
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 4

AutoCAD FILE: GANDY-TOPO3A.DWG PROJECT NUMBER: 602-0200



VZMW-8D
VZMW-14S
(LOCATION OF BORING PB-14)



NOTE: 1.) PROTECTIVE POSTS FIELD LOCATED AS NEEDED.

TYPICAL VADOSE ZONE MONITORING WELL INSTALLATION DETAIL

NTS

SCALE

300' 0 300' 600'

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 NORTHEAST OF THE FACILITY BOUNDARY WITHIN 15 FEET OF THE LOCATION OF BORING WW-1.
2. WELL MATERIALS OF CONSTRUCTION DIMENSIONED ON FIGURE 2A RELATIVE TO STRATIGRAPHIC UNITS.

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
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY: TG
DRAWN BY: KDB
CHECKED BY: GDP
DATE: 6/27/2013

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

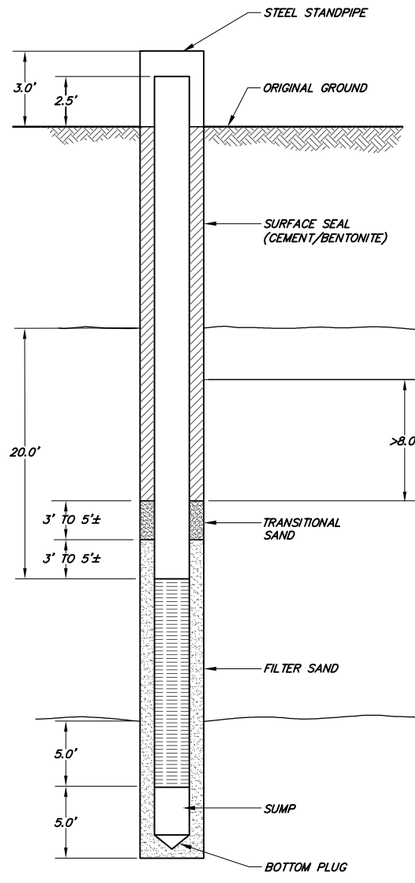
FACILITY LAYOUT

JOB NO. ES11.0141

SHEET 1 of 2
DWG NO. 4

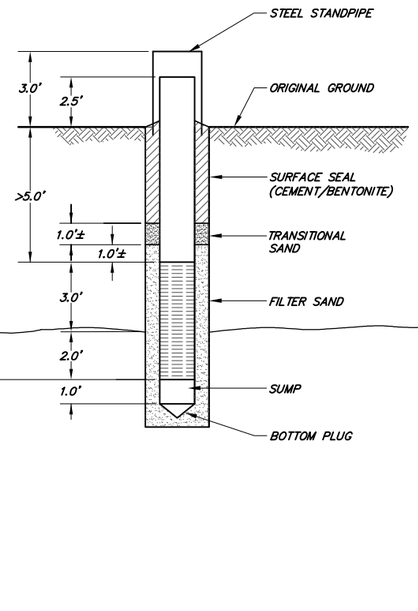
DEEP MONITORING WELL INSTALLATION DETAILS (1)

NTS



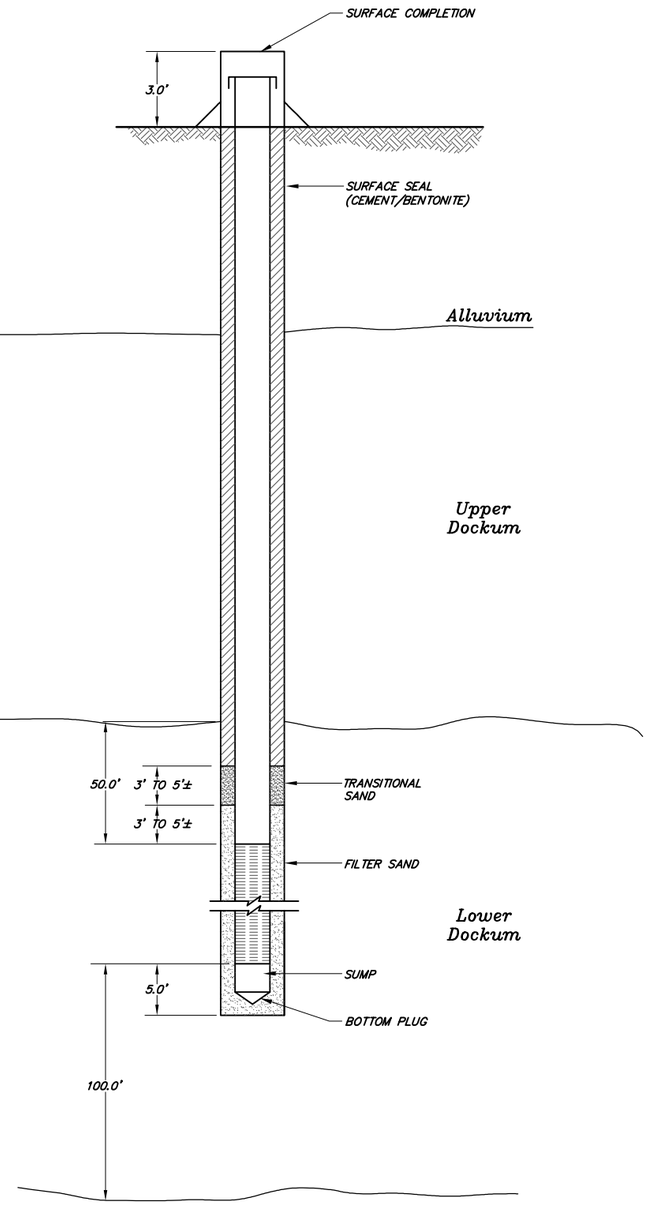
SHALLOW MONITORING WELL INSTALLATION DETAIL (1)

NTS



VERY DEEP MONITORING WELL INSTALLATION DETAIL (1)

NTS



Vadose Zone Monitoring System Schedule

Well Designation	Depth	Contact / Zone to Be Monitored	Well or Probe Materials of Construction	General Location
VZMW-1D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	SE corner of Phase 1A landfill cell
VZMW-2D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	East side of Phase 1A landfill cell, 350 feet north of VZMW-1D
VZMW-3D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	East side of Phase 1A landfill cell, 350 feet south of VZMW-4D
VZMW-4D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	NE corner of Phase 1A landfill cell
VZMW-5D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	Midpoint between VZMW-4D and VZMW-6D
VZMW-6D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	NE corner of the facility
VZMW-7D	Very Deep	Lower Dockum	4-inch-diameter SCH 80 PVC	SE corner of stormwater detention basin
VZMW-8D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	Within 15 feet of the location of boring PB-14
VZMW-9D	Deep	Upper / Lower Dockum	4-inch-diameter SCH 80 PVC	Within 15 feet of the location of boring WW-1
VZMW-10S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	SW corner of Phase 1A landfill cell
VZMW-11S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	West side of Phase 1A landfill cell, 330 feet north of VZMW-10S
VZMW-12S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	West side of Phase 1A landfill cell, 330 feet south of VZMW-13S
VZMW-13S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	NW corner of Phase 1A landfill cell
VZMW-14S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	Within 15 feet of the location of boring PB-14
VZMW-15S	Shallow	Aluvium / Upper Dockum	4-inch-diameter SCH 80 PVC	Within 15 feet of the location of boring WW-1
NPAT-1	Deep	Upper / Lower Dockum	2.5- to 3-inch-diameter PVC or steel	Midpoint of north side of Phase 1A landfill cell
NPAT-2	Deep	Upper / Lower Dockum	2.5- to 3-inch-diameter PVC or steel	Midpoint of west side of Phase 1A landfill cell

NOTE:

(1) INSTALLATION DETAILS ARE CONCEPTUAL TO INDICATE APPROXIMATE DEPTH OF INSTALLATION AND SCREENED OR MONITORED INTERVALS. ACTUAL DETAILS TO BE DETERMINED IN THE FIELD.

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: ES1\Projects\ES11.0141_Triassic_Park_Permit_Renewal\VR_Drawings\ES11.0141_VR_Well_Installation_Details.dwg

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TG	KDB	GDP	6/27/2013

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

WELL INSTALLATION DETAILS

GUNDAR PETERSON — NEW MEXICO — 16038 — 12/13 — REGISTERED PROFESSIONAL ENGINEER

JOB NO. ES11.0141

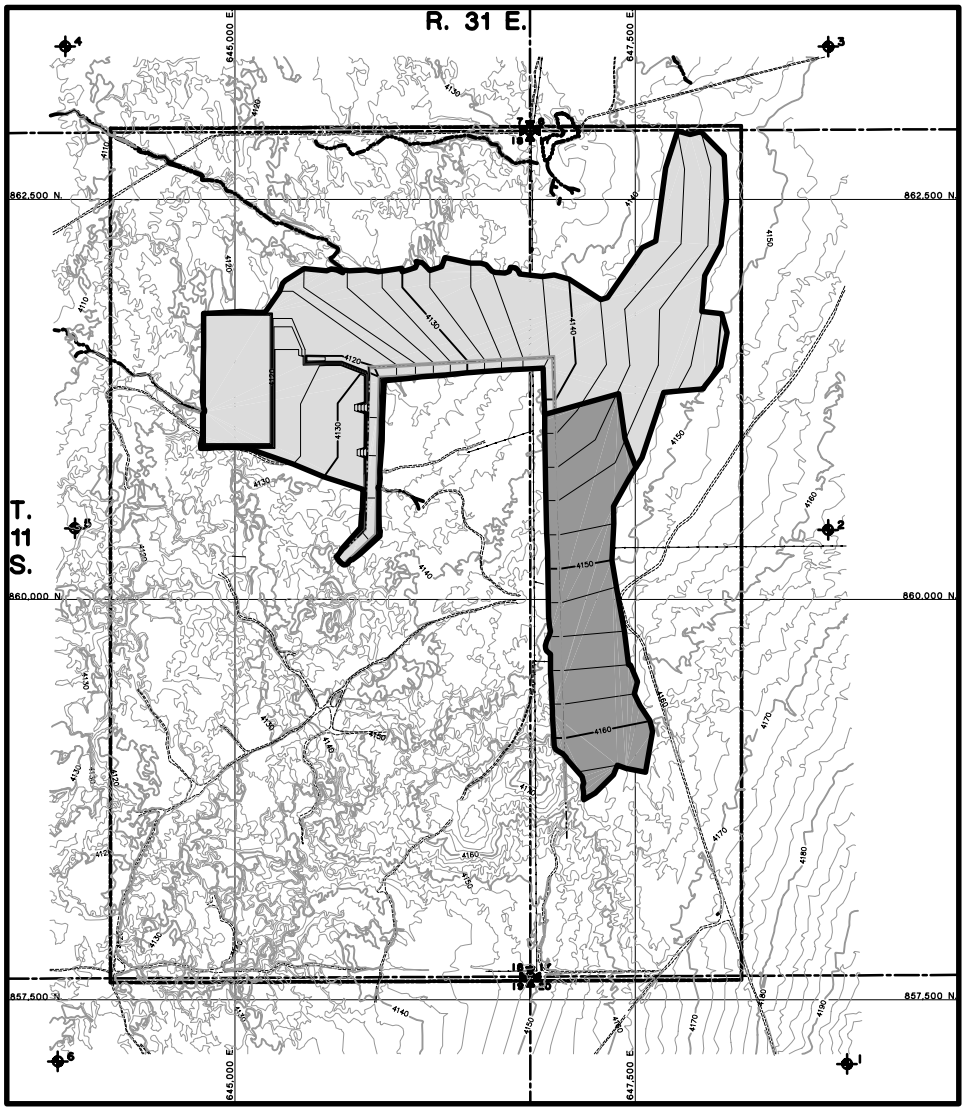
SHEET 2 of 2
DWG NO. 4

XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34

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 BY JOHN WEST ENGINEERING COMPANY, AUGUST 1997.

SCALE

400' 0 400' 800'

CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	October 2000 Revision	10/4/00	J.Pelliser	K.Conrath	P.Corser
0	PART 9 PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:

INITIAL SITE GRADING PLAN

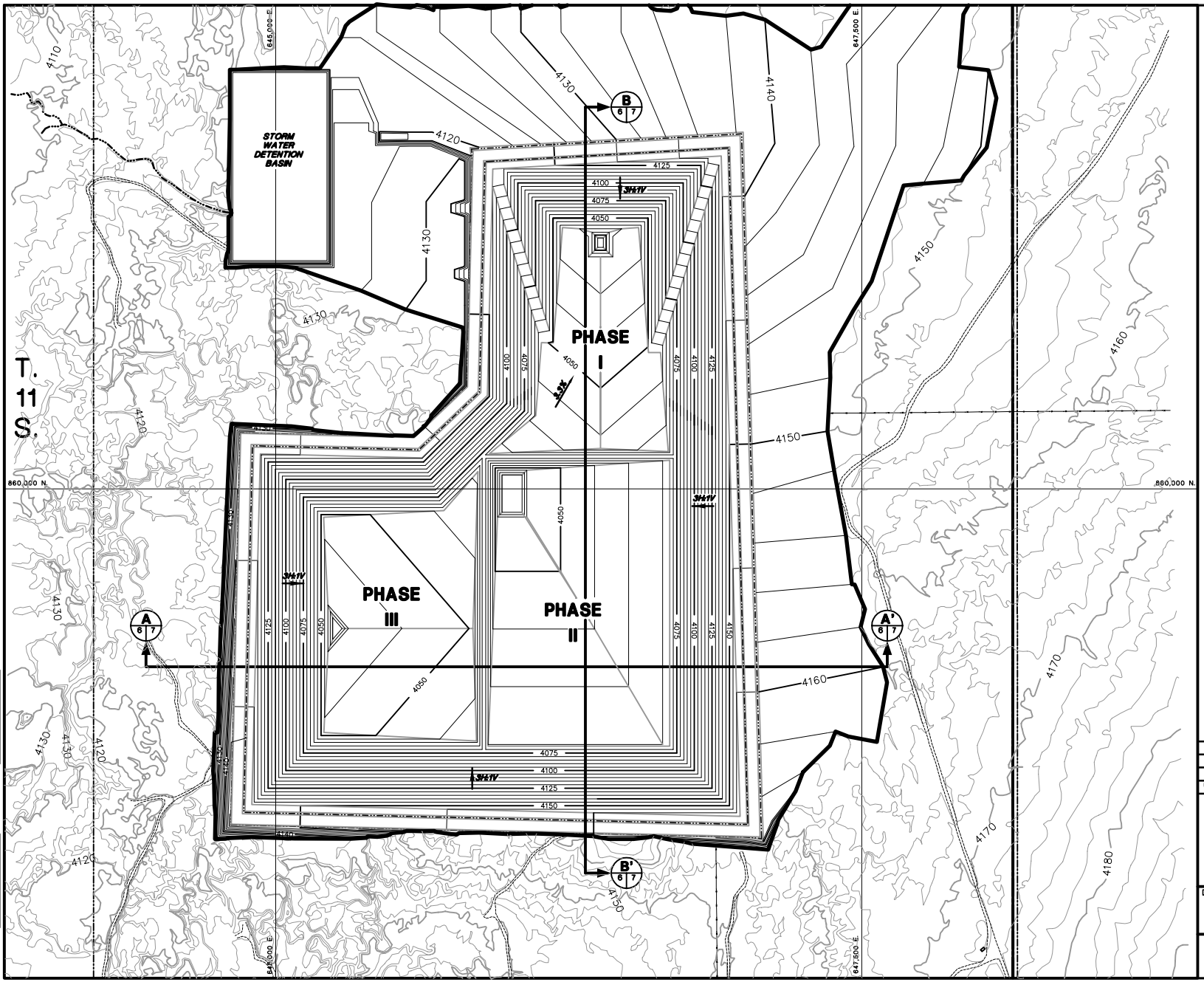
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets

SCALE: AS NOTED

DRAWING No. 5

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



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. BASE GRADES FOR PHASES II AND III TO BE MODIFIED PRIOR TO CONSTRUCTION TO ACHIEVE A MINIMUM OF 2%.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

SCALE

200' 0 200' 400'

CONTOUR INTERVAL 5 FT.
SURFACE TOPOGRAPHY CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
5	October 2000 Revisions	10/4/00	J.Pelliser	K.Conrath	P.Corser
1	November 1998 Revision	10/29/98	J.Pelliser	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	EWS	P.Corser

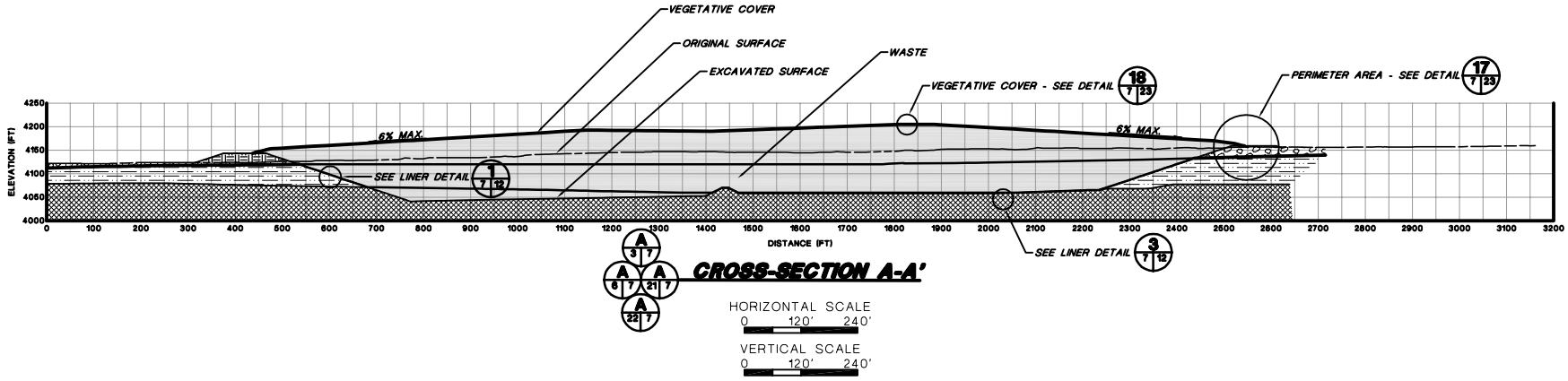
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
ULTIMATE LANDFILL EXCAVATION PLAN

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 6

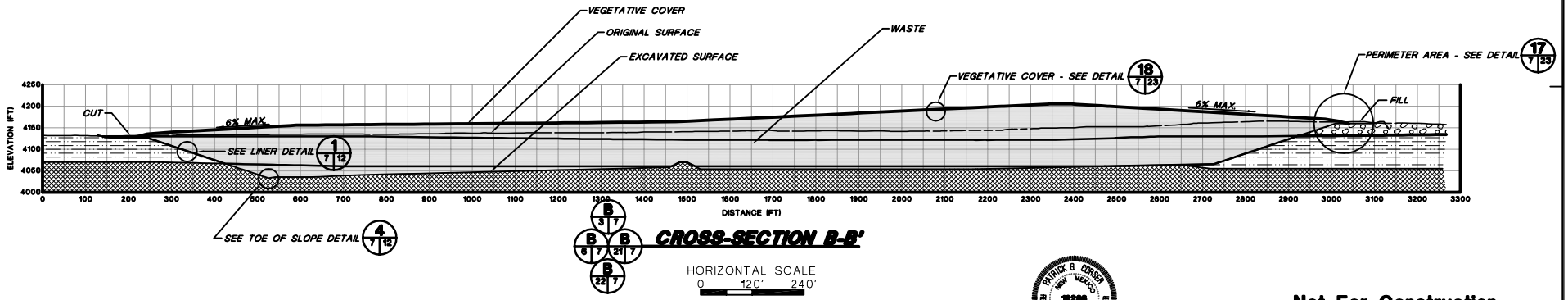
AutoCAD FILE: GM-ULEP.DWG PROJECT NUMBER: 602-0200



CROSS-SECTION A-A'

HORIZONTAL SCALE
0 120' 240'

VERTICAL SCALE
0 120' 240'



CROSS-SECTION B-B'

HORIZONTAL SCALE
0 120' 240'

VERTICAL SCALE
0 120' 240'

NOTES:

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

PATRICK G. CORSER — NEW MEXICO — 12236 — REGISTERED PROFESSIONAL ENGINEER

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. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

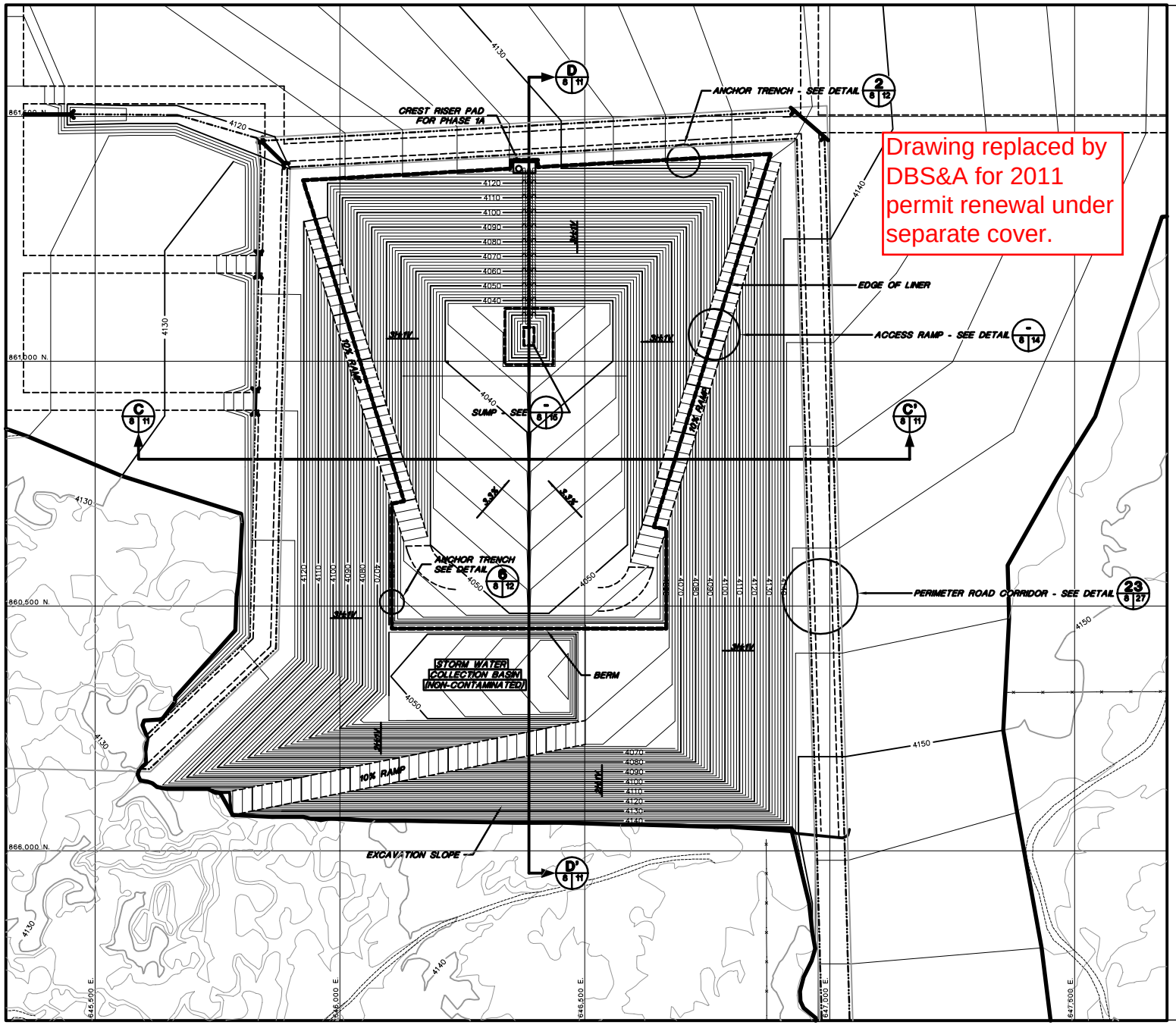
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
LANDFILL CROSS-SECTIONS

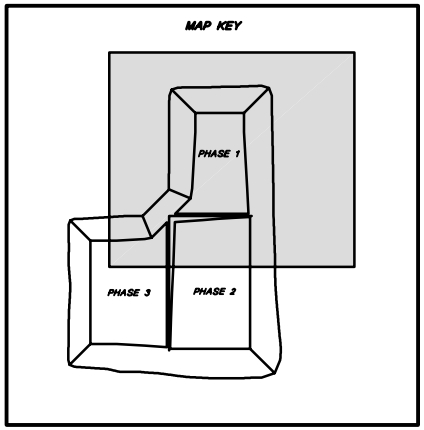
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 7

AutoCAD FILE: GAMDY-17SEC2.DWG PROJECT NUMBER: 692-2000



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



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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

SCALE
100' 0 100' 200'
CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pelicer	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:
DETAILED EXCAVATION PLAN - PHASE 1A

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

CREST RISER PAD FOR PHASE 1A

ANCHOR TRENCH – SEE DETAIL (2 / 8 12)

CORNER OF LINER
N. 861,423.24
E. 646,879.11
ELEV.: 4138 Ft.

EDGE OF LINER

ACCESS RAMP – SEE DETAIL (— / 8 14)

SUMP – SEE (— / 8 15)

ANCHOR TRENCH SEE DETAIL (6 / 8 12)

PERIMETER ROAD CORRIDOR – SEE DETAIL (23 / 8 27)

STORM WATER COLLECTION BASIN (NON-CONTAMINATED)

BERM

EXCAVATION SLOPE

3H:1V

2H:1V

10% RAMP

3.3%

4040

4050

4060

4070

4080

4090

4100

4110

4120

4130

4140

4150

861,500 N.

861,000 N.

860,500 N.

866,000 N.

645,500 E.

646,000 E.

646,500 E.

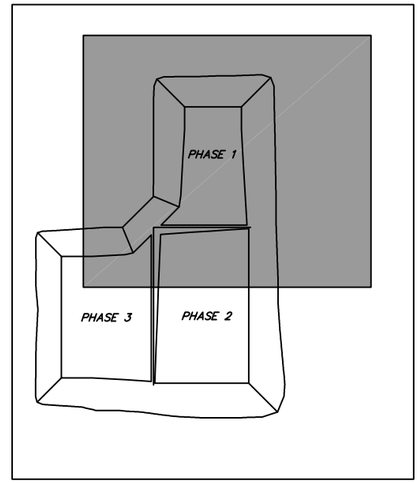
647,000 E.

C (8 11)

C' (8 11)

D (8 11)

D' (8 11)



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.

SCALE
100' 0 100' 200'

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: S:\Projects\ES11.0141_Triassic_Park_Permit_Renewal\VR_Drawings\ES11_0141_1208_detailed_excav_plan_08.dwg

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

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

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

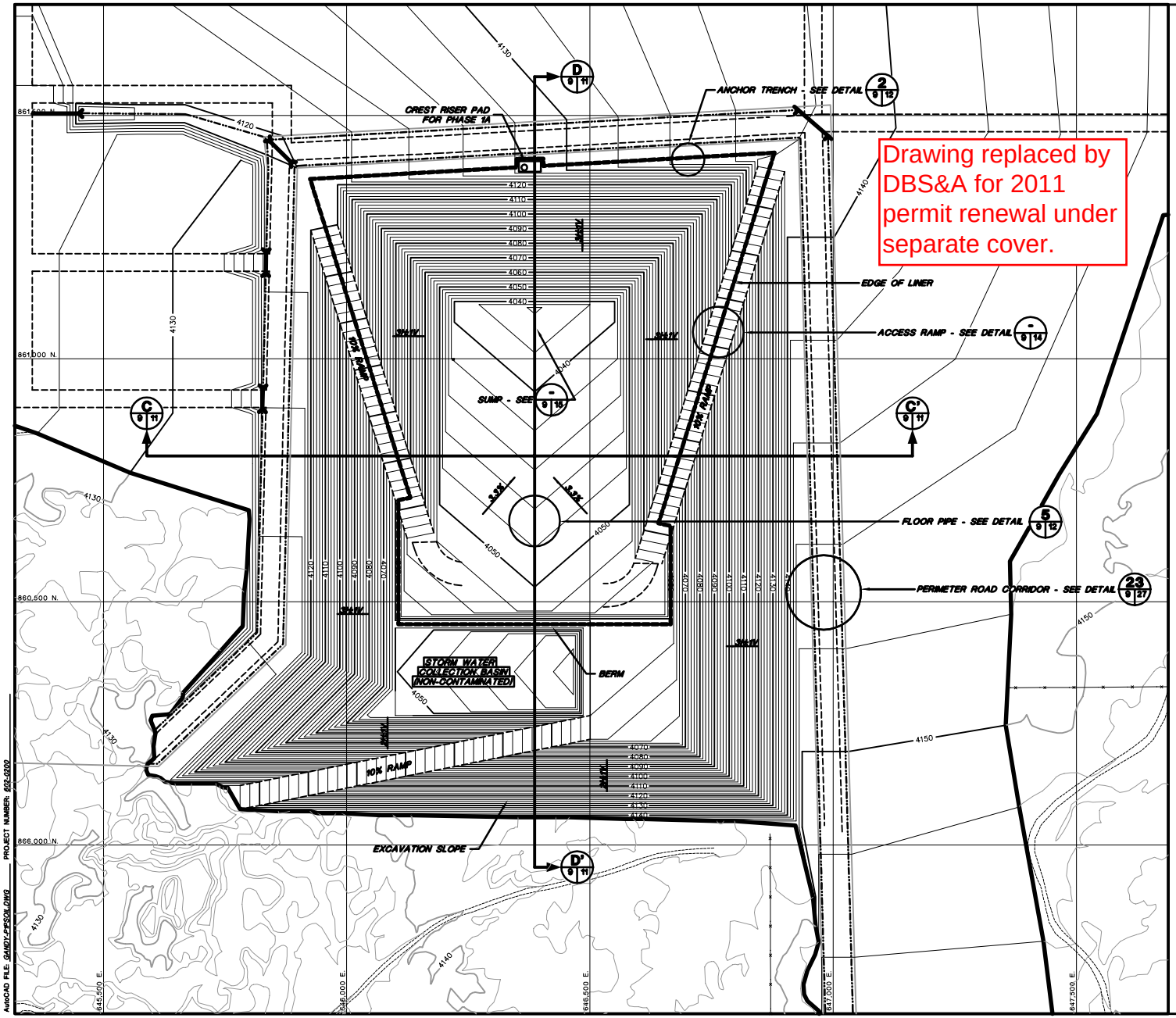
DETAILED EXCAVATION PLAN - PHASE 1A

GUNDAR PETERSON — NEW MEXICO — 11038 — 10/20/12 — LICENSED PROFESSIONAL ENGINEER

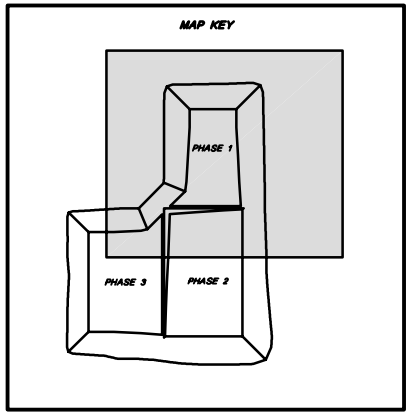
JOB NO. ES11.0141

SHEET 1 of 1
DWG NO. 8

XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK_TB_22X34



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



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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

SCALE
100' 0 100' 200'
CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/4/00	J.Peltier	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Peltier	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JJP	T.Smith	P.Corser

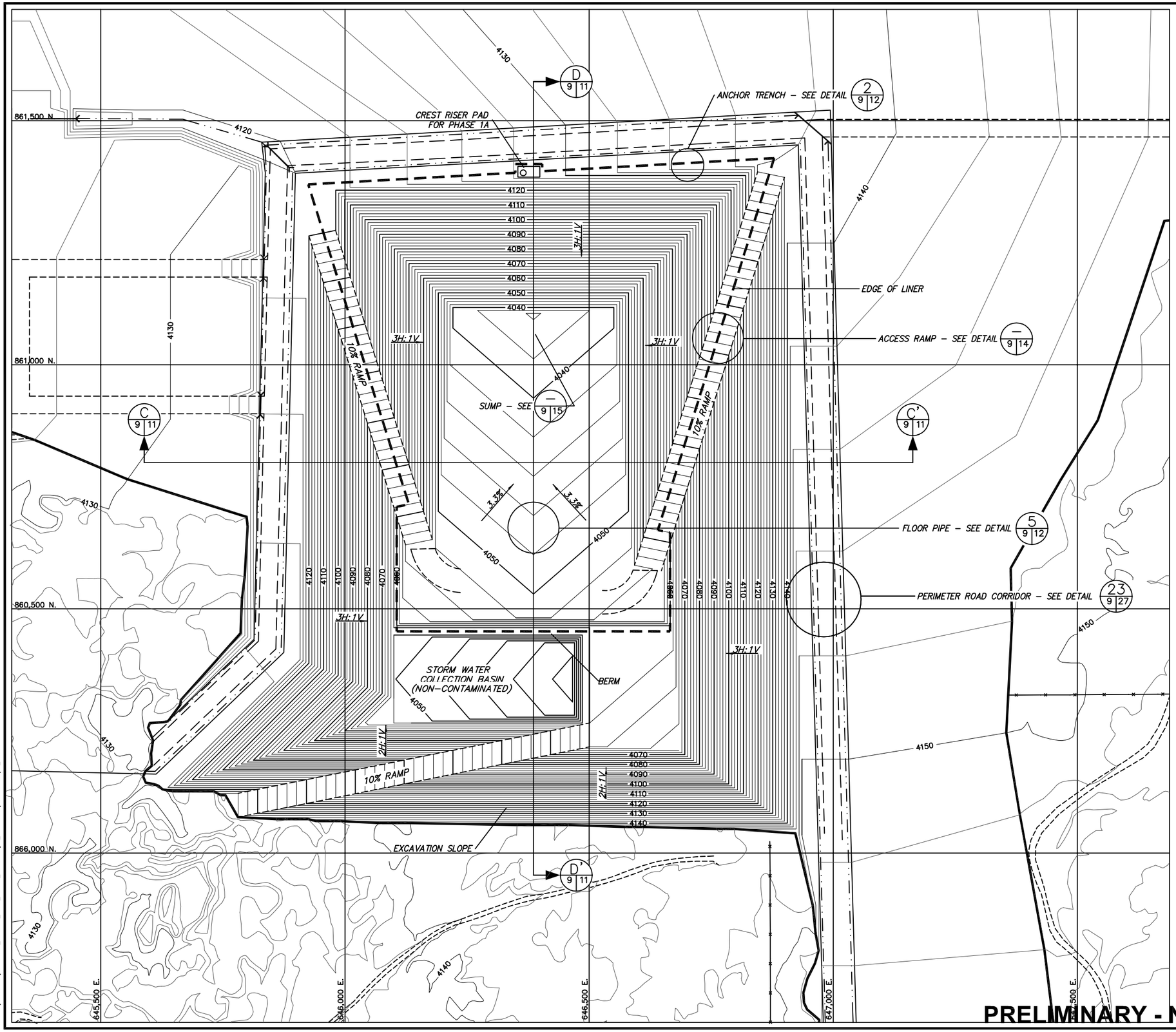
TRIASSIC PARK
WASTE DISPOSAL FACILITY

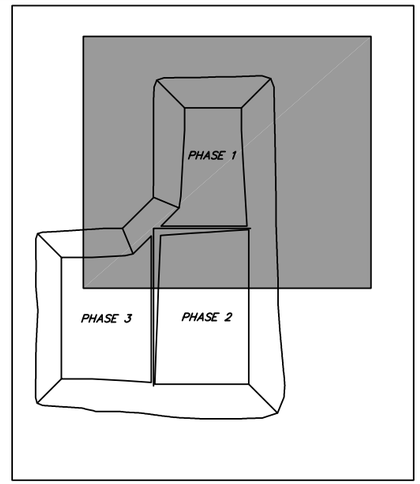
DRAWING TITLE:
TOP OF PROTECTIVE SOIL LAYER - PHASE 1A

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: GANDY-PRSOIL0WG PROJECT NUMBER: 603.0200





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.

N

SCALE

100' 0 100' 200'

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: N:\Projects\ES11.0141_Triassic_Park_Permit_Renewal\VR_Drawings\ES11.0141_1208_top_protective_soil_layer_r08.dwg

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

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

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

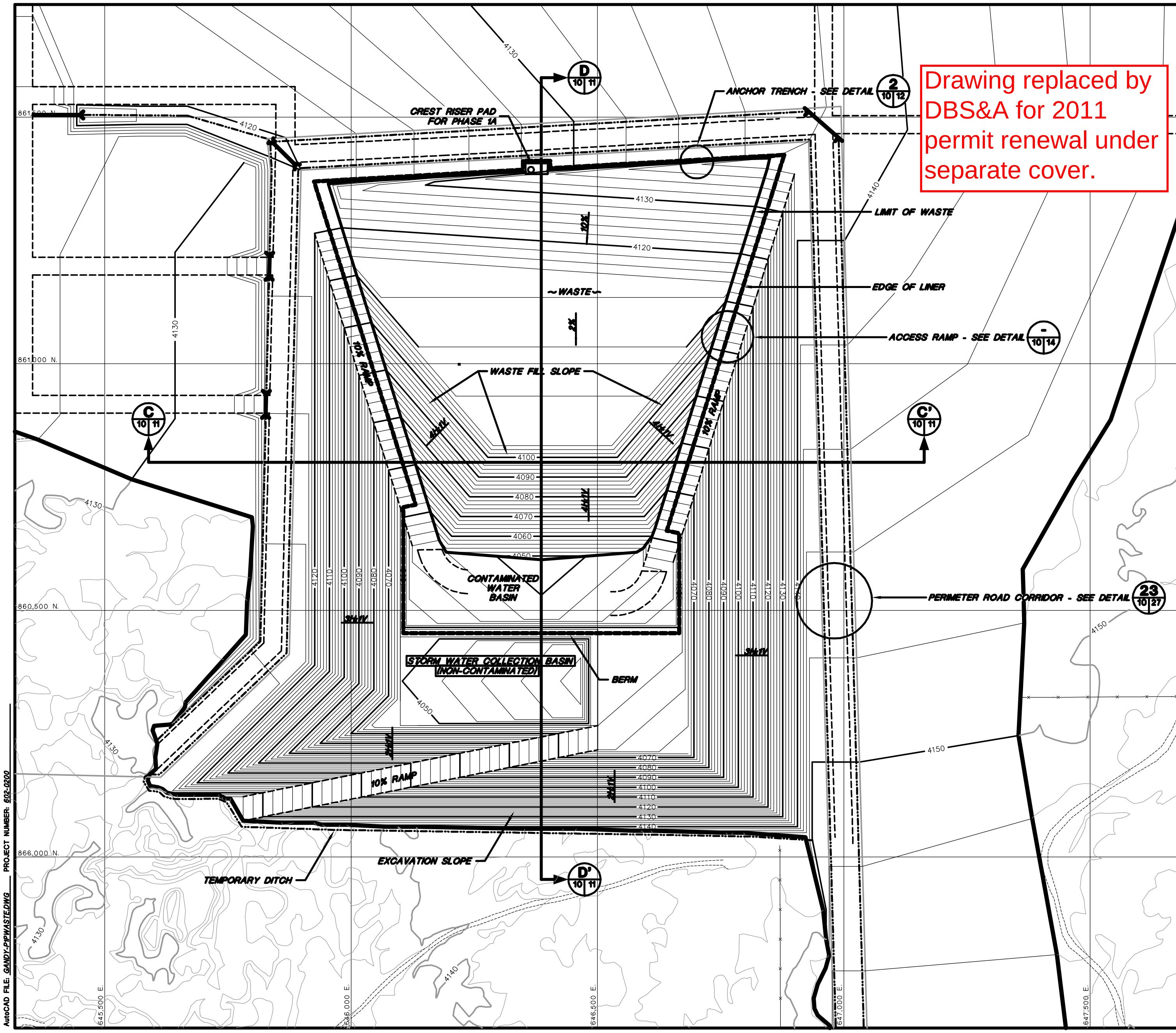
TOP OF PROTECTIVE SOIL LAYER - PHASE 1A

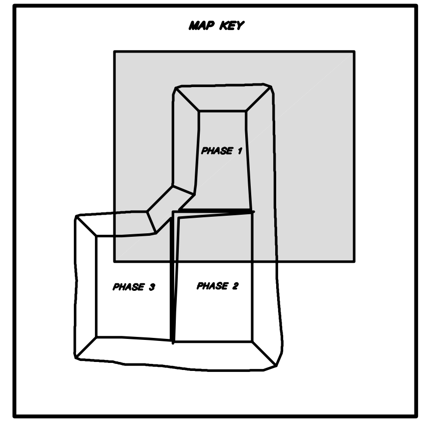
GUNDAR PETERSON NEW MEXICO TG038 LICENSED PROFESSIONAL ENGINEER 10/20/11

JOB NO. ES11.0141

SHEET 1 of 1
DWG NO. 9

XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34





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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

SCALE

100' 0 100' 200'

CONTOUR INTERVAL 2 FT.

Not For Construction

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	November 1999 Updates	1/02/99	J.Troncoso	M.Mathisen	P.Corser
2	SEPTEMBER 1999 REVISION	9/21/99	P.Corser	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

TRIASSIC PARK WASTE DISPOSAL FACILITY

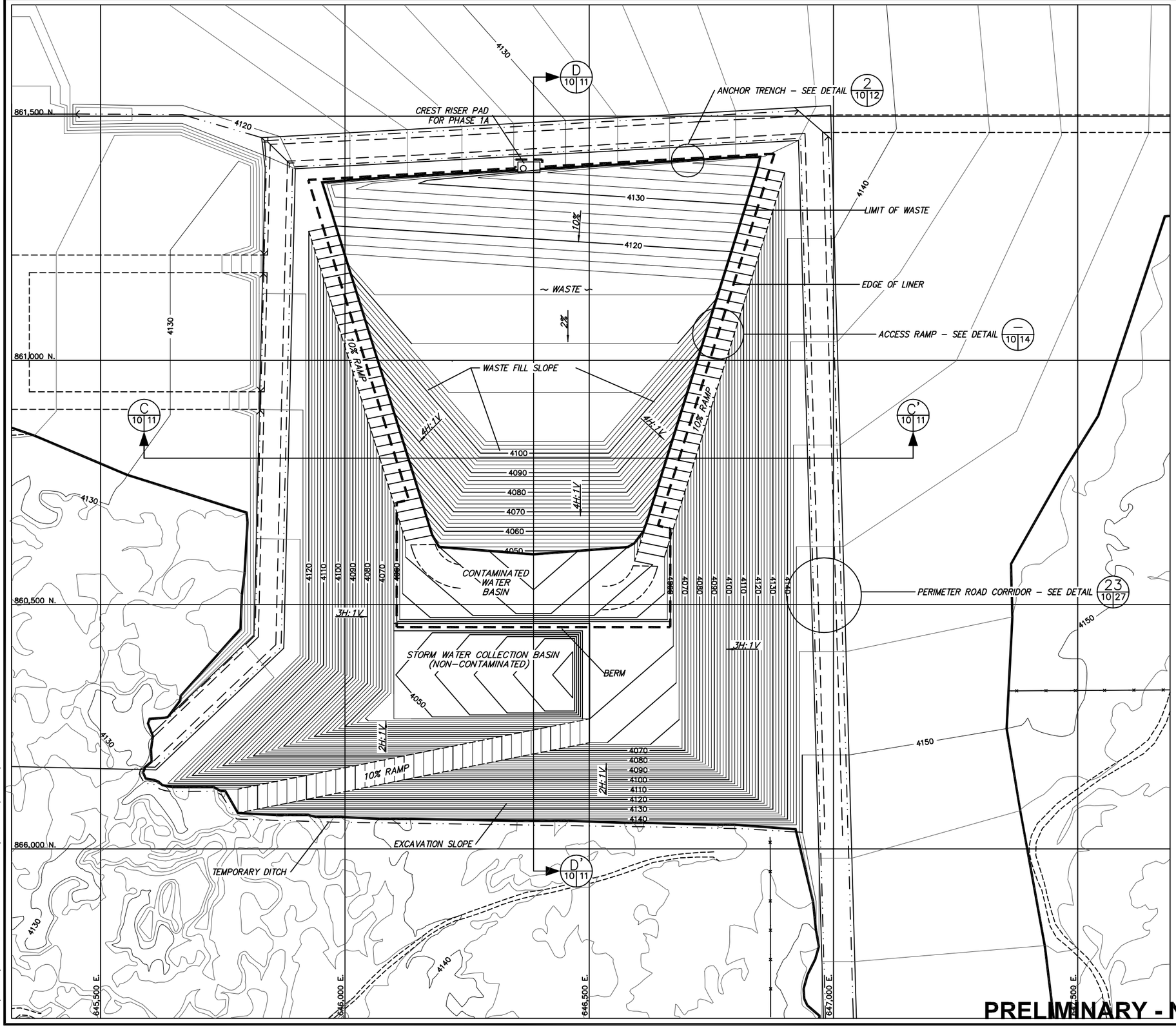
DRAWING TITLE: **FILLING PLAN - PHASE 1A**

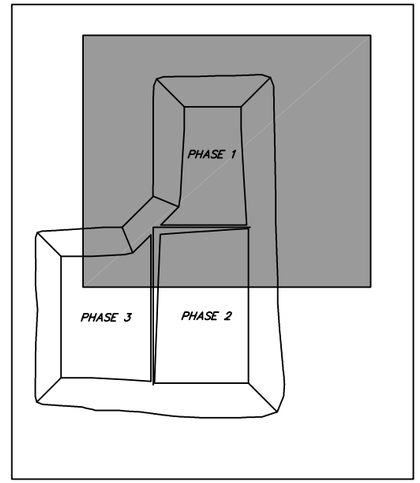
TerraMatrix MONTGOMERY WATSON Mining Group

Sheet 1 Of 1 Sheets

SCALE: AS NOTED

DRAWING No. 10





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

SCALE

100' 0 100' 200'

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: ES11.0141_Triassic_Park_Permit_Renewal\VR_Drawings\ES11.0141_Cell2_Filling_Sequence_1A.dwg

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY: TG
DRAWN BY: KDB
CHECKED BY: GDP
DATE: 10/2011

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

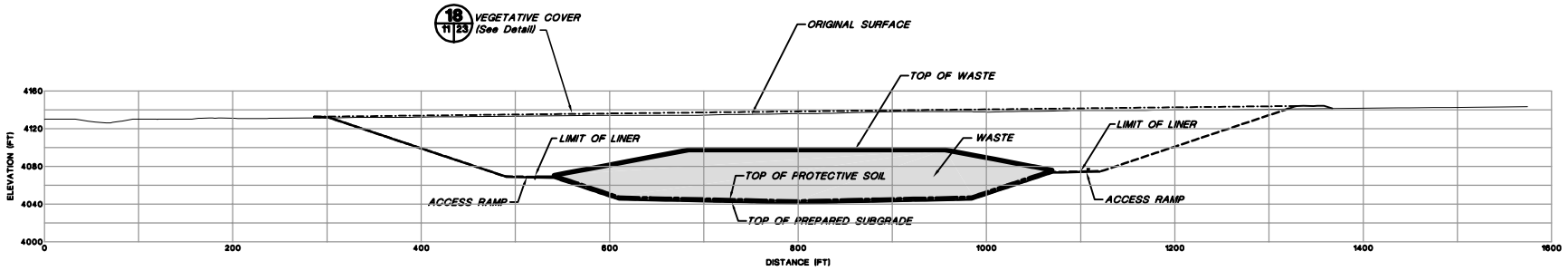
FILLING PLAN - PHASE 1A

GUNDAR PETERSON NEW MEXICO 16038 LICENSED PROFESSIONAL ENGINEER 10/20/2011

JOB NO. ES11.0141

SHEET 1 of 1
DWG NO. 10

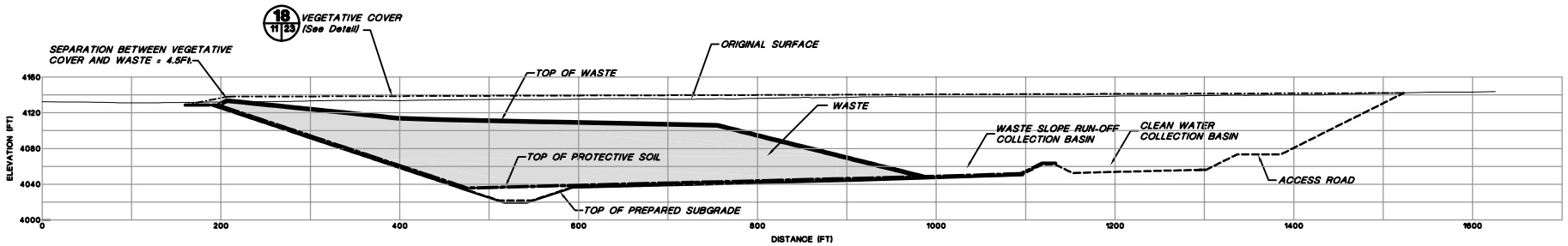
XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34



C 9 11 / C 10 11 PHASE 1A CROSS-SECTION C-C'

HORIZONTAL SCALE
0 60' 120'

VERTICAL SCALE
0 60' 120'



D 8 11 / D 9 11 / D 10 11 PHASE 1A CROSS-SECTION D-D'

HORIZONTAL SCALE
0 60' 120'

VERTICAL SCALE
0 60' 120'

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

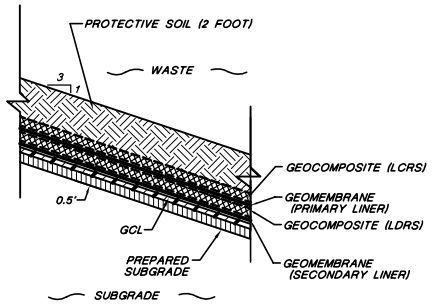
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
PHASE 1A CROSS-SECTIONS

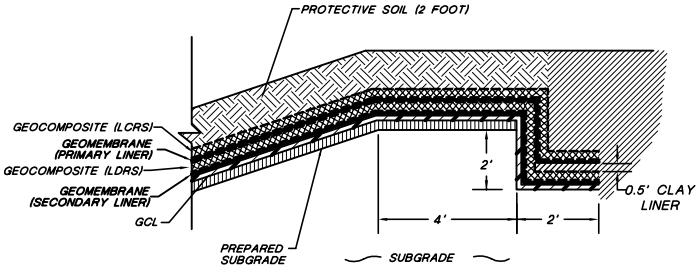
TerraMatrix
MONTGOMERY WATSON
Mining Group

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

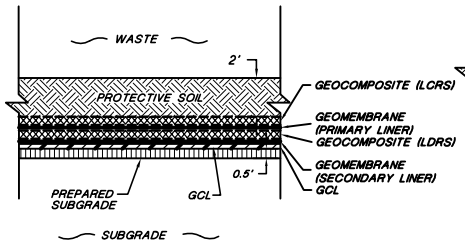
AutoCAD FILE: SANDY-PHYSSEC.DWG PROJECT NUMBER: 602-2200



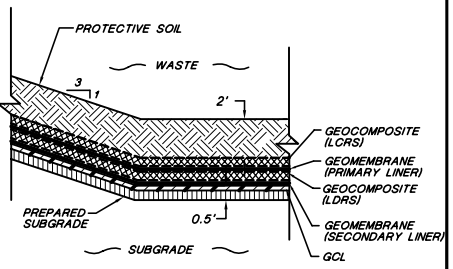
SLOPE LINER SYSTEM DETAIL (1 / 7 12)
Not To Scale



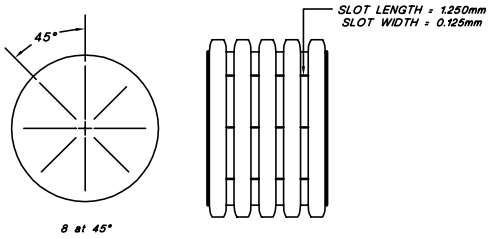
LINER ANCHOR TRENCH DETAIL (2 8 12 9 12 / 2 10 12 2 23 12 2 24 12)
Not To Scale



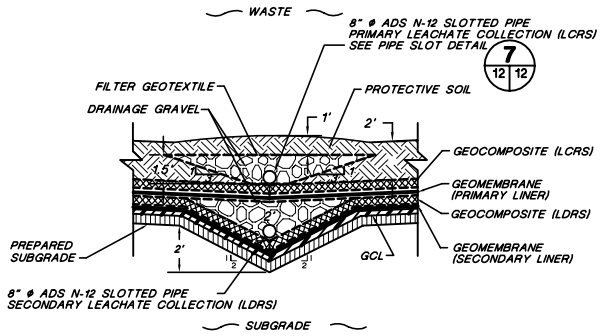
FLOOR LINER SYSTEM DETAIL (3 3 / 7 12 24 12)
Not To Scale



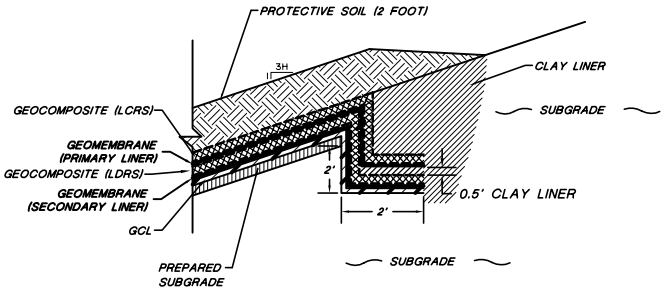
TOE OF SLOPE LINER SYSTEM DETAIL (4 / 7 12)
Not To Scale



ADS N-12 PIPE SLOT DETAIL (7 / 12 12)
Not To Scale



FLOOR PIPE DETAIL (5 / 9 12)
Not To Scale



SLOPE ANCHOR TRENCH (6 6 / 8 12 13 12)
Not To Scale

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

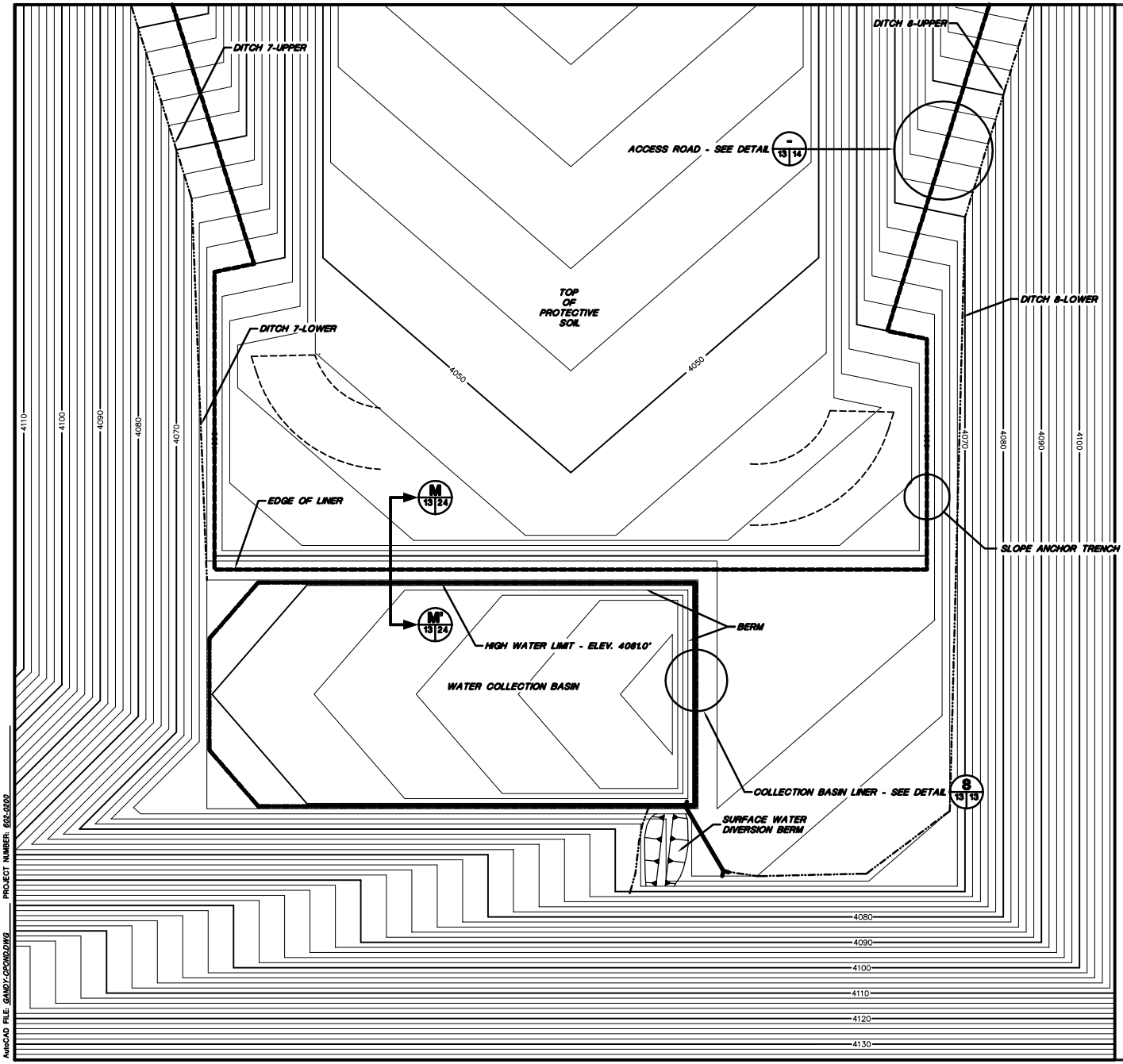
TRIASSIC PARK
WASTE DISPOSAL FACILITY

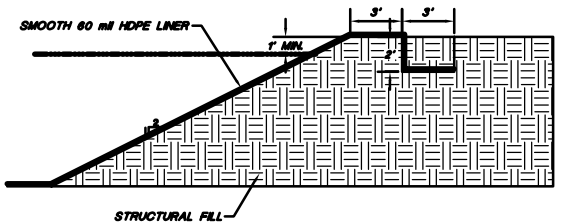
DRAWING TITLE:
LINER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: LINRDTLS.DWG PROJECT NUMBER: 602.0200





8 13/13 COLLECTION BASIN BERM DETAIL

NOT TO SCALE

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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1	NOVEMBER 1999 REVISION	10/29/99	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	POC/JPP	T.Smith	P.Corser

TRIASSIC PARK
WASTE DISPOSAL FACILITY

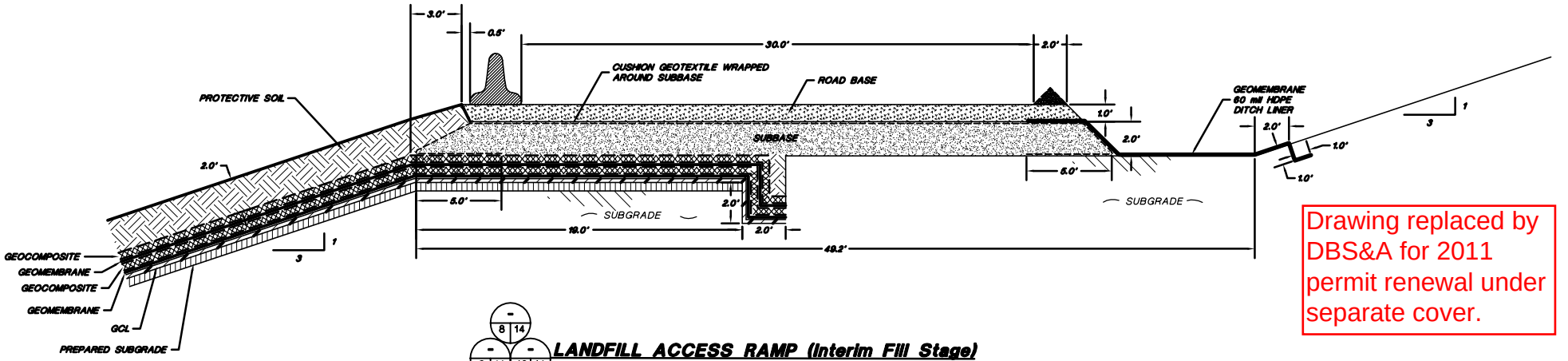
DRAWING TITLE:
COLLECTION BASIN PLAN AND DETAILS

SCALE
40' 0 40' 80'
CONTOUR INTERVAL 2 FT.

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 13

AutoCAD FILE: GAMOY-CPOND.DWG PROJECT NUMBER: 602-0200

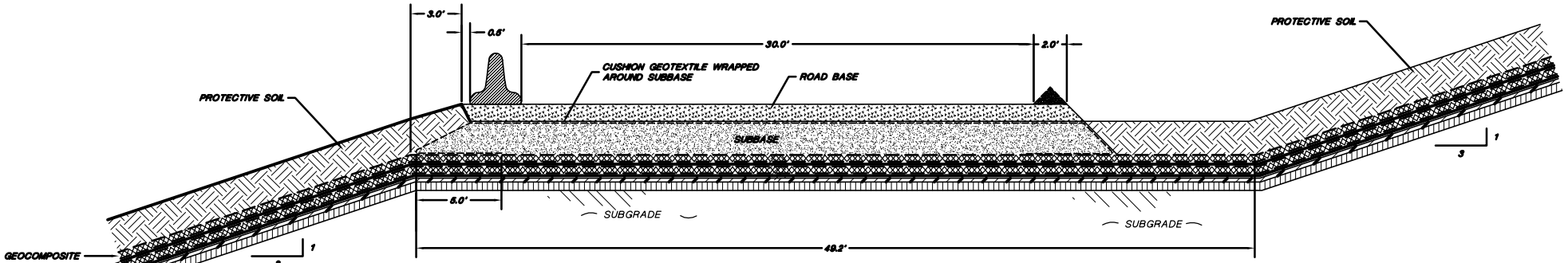


Drawing replaced by DBS&A for 2011 permit renewal under separate cover.

8 14 | 9 14 10 14 | 13 14

LANDFILL ACCESS RAMP (Interim Fill Stage)

SCALE 0 3 6 Feet



8 14 | 9 14 10 14 | 13 14

LANDFILL ACCESS RAMP (Final Fill Stage)

SCALE 0 3 6 Feet

Not For Construction

REV No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/1/00	J.Pelicer	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonsen	P.Corser

TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
TYPICAL LANDFILL ACCESS RAMP DETAILS

PATRICK G CONRATH NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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.

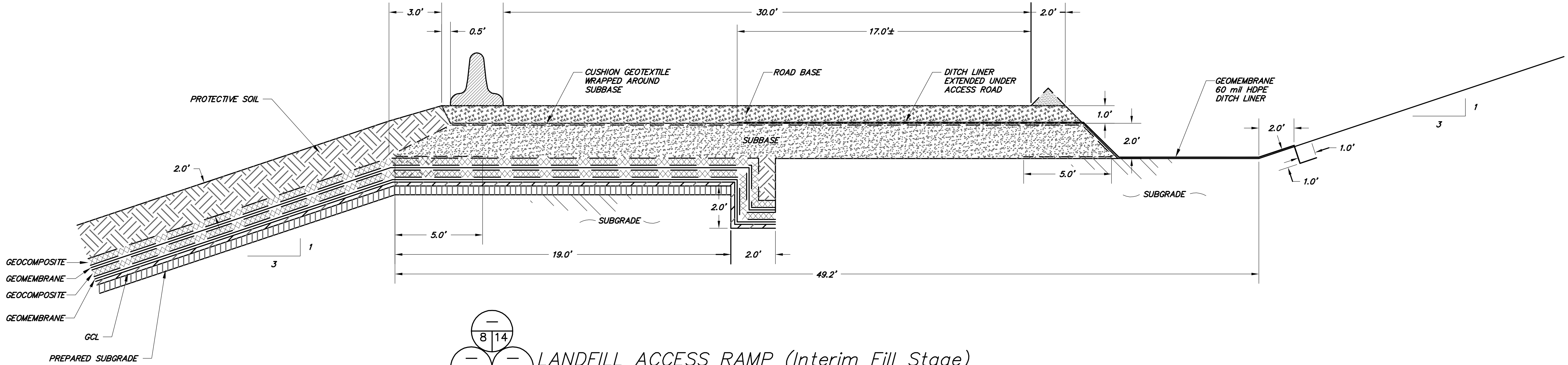
Date Patrick G. Corser, NM P.E. 12236

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 14

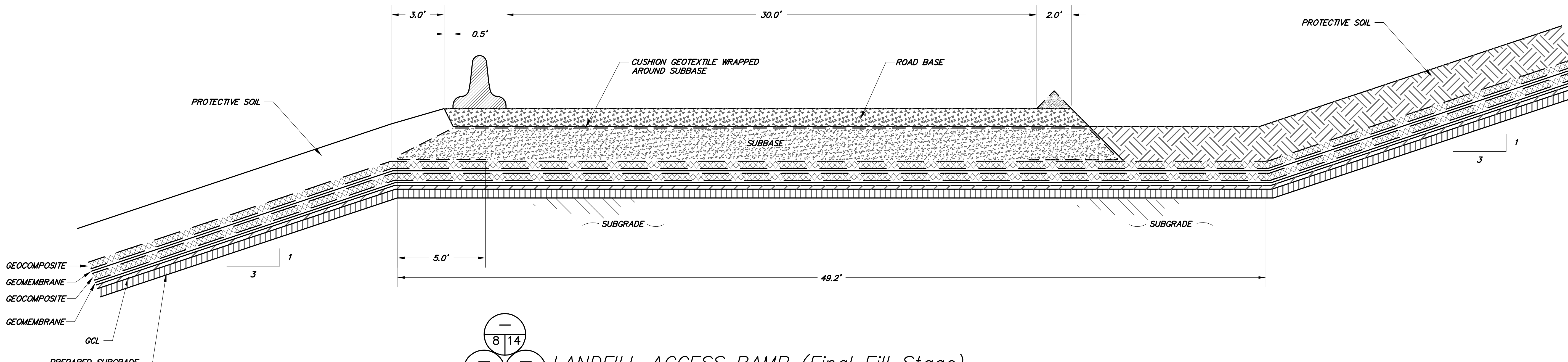
AutoCAD FILE: RAMP-DETAIL.DWG PROJECT NUMBER: 602-0200



8 | 14, 9 | 14, 10 | 14, 13 | 14

LANDFILL ACCESS RAMP (Interim Fill Stage)

SCALE 0 3 6 Feet



8 | 14, 9 | 14, 10 | 14, 13 | 14

LANDFILL ACCESS RAMP (Final Fill Stage)

SCALE 0 3 6 Feet

NOTE:
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

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY: TG
DRAWN BY: KDB
CHECKED BY: GDP
DATE: 7/02/2013

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

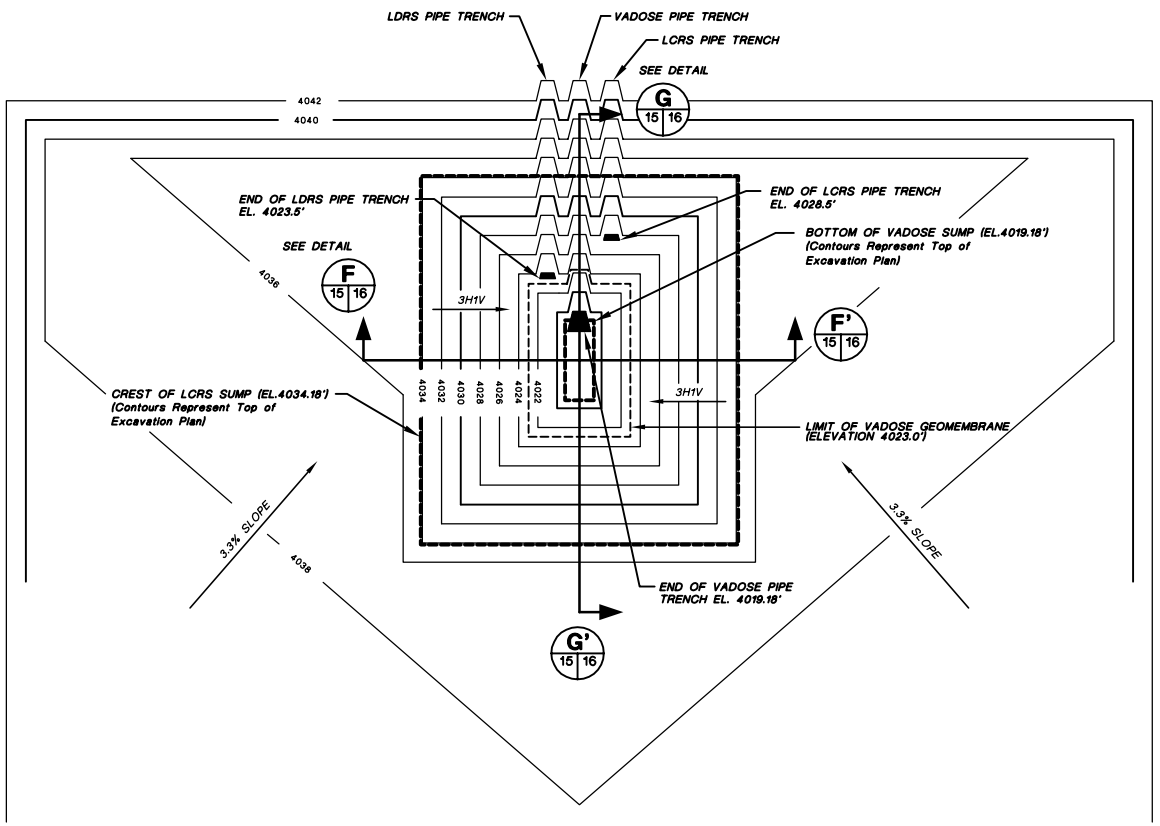
TYPICAL LANDFILL ACCESS RAMP DETAILS

GUNDAR PETERSON NEW MEXICO 16038 7/2/13 LICENSED PROFESSIONAL ENGINEER

JOB NO. ES11.0141

SHEET 1 of 1
DWG NO. 14

XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34



SUMP PHASE 1A - PLAN VIEW

SCALE

20' 0 20' 40'

CONTOUR INTERVAL 2Ft.

Not For Construction

NOTES:

1. THE V-TRENCH ON THE FLOOR OF LANDFILL (SEE DETAIL 5 / 12) 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".

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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 No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

TRIASSIC PARK
WASTE DISPOSAL FACILITY

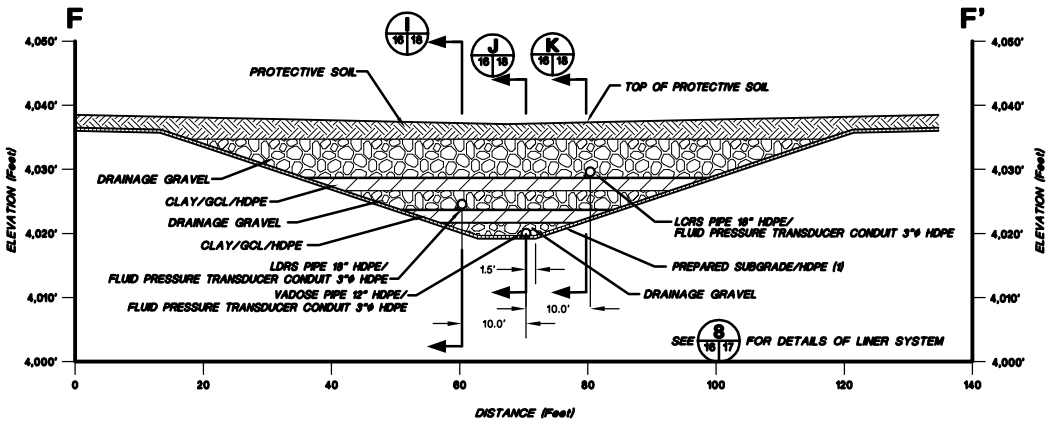
DRAWING TITLE:

SUMP PLAN VIEW - PHASE 1A

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

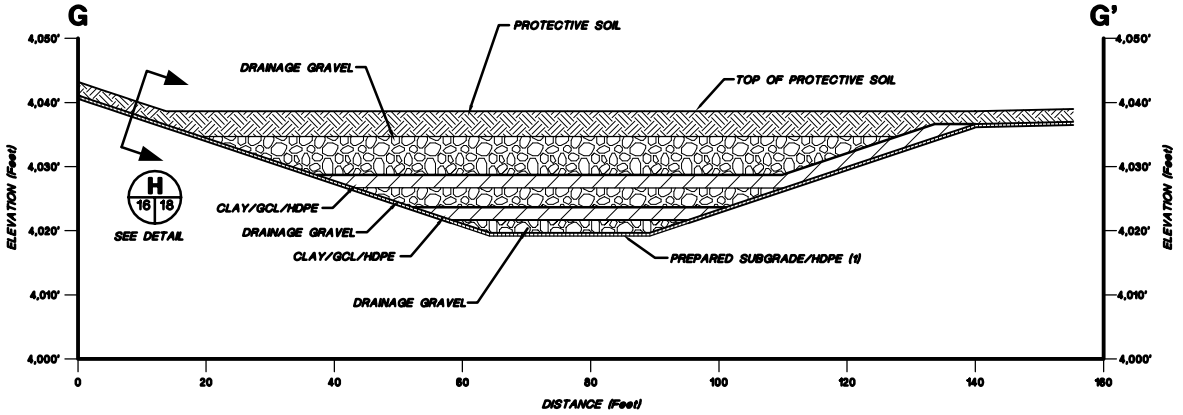
AutoCAD FILE: SUMPLANDWG PROJECT NUMBER: 602-0200



F 15|16 SUMP - CROSS-SECTION F-F'

HORIZONTAL SCALE
0 10.0' 20.0'

VERTICAL SCALE
0 10.0' 20.0'



G 15|16 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".

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

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1	NOVEMBER 1998 REPORT	10/29/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonson	P.Corser

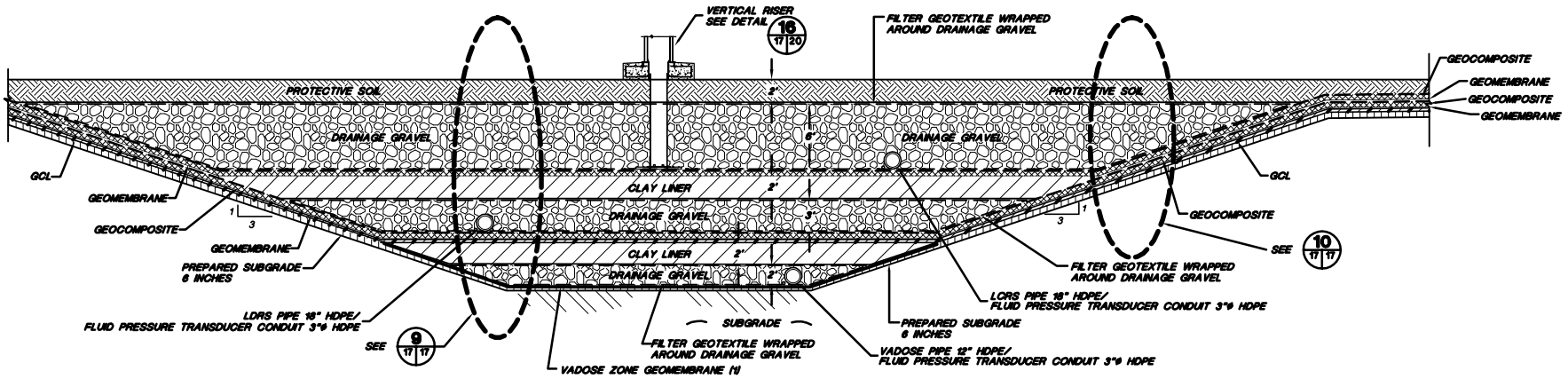
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
SUMP CROSS-SECTIONS - PHASE 1A

TerraMatrix
MONTGOMERY WATSON
Mining Group

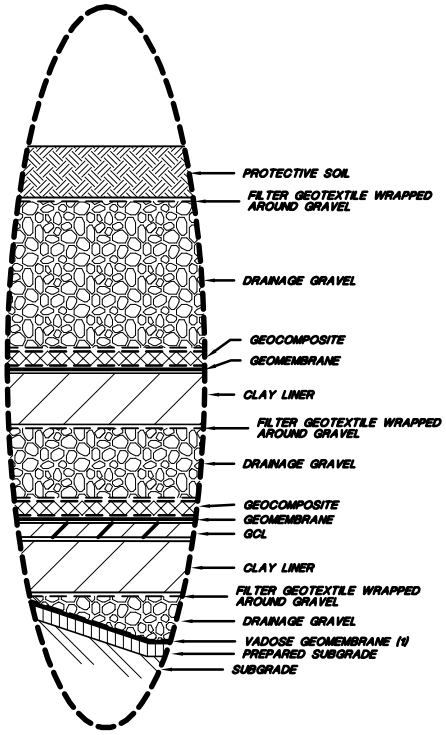
Sheet 1 Of 1 Sheets
SCALE: See Scale Bar
DRAWING No. 16

AutoCAD FILE: SUMPLAN-XSECD.DWG PROJECT NUMBER: 602-0200



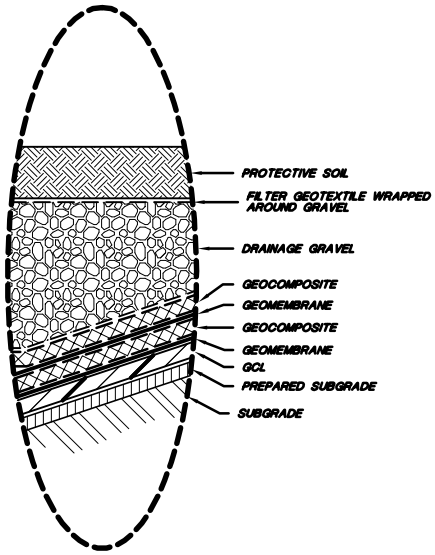
8 18 17 TYPICAL SUMP DETAIL

SCALE
0 5.0' 10.0'
Feet



9 17 17 EXAGGERATED GEOSYNTHETIC COMPONENT DETAIL

Not To Scale



10 17 17 EXAGGERATED GEOSYNTHETIC COMPONENT DETAIL

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

REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/1/00	J.Pelicer	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonsen	P.Corser

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

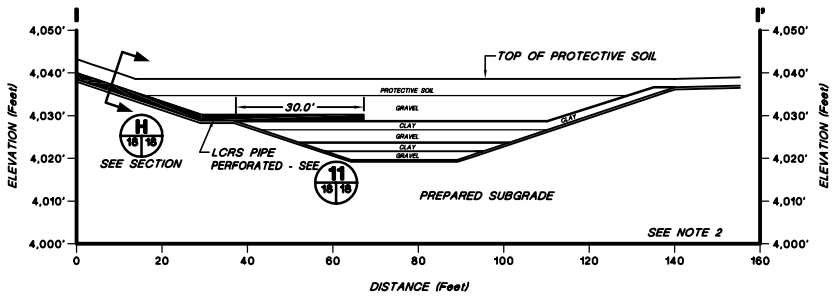
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
TYPICAL SUMP DETAIL CROSS-SECTION

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

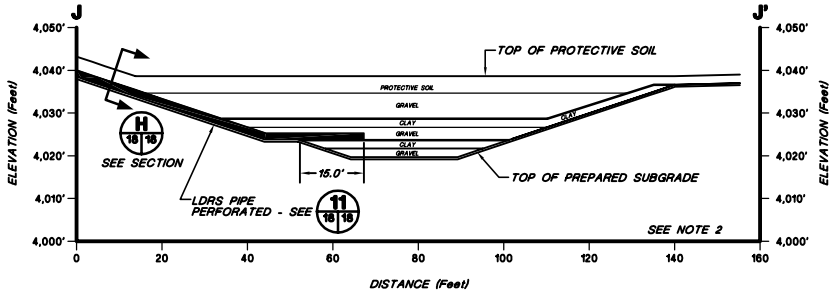
AutoCAD FILE: TYP-SUMP-DETAIL.DWG PROJECT NUMBER: 603-0200



I/16 16 LCRS PIPE PLACEMENT IN SUMP

HORIZONTAL SCALE
0 15' 30'

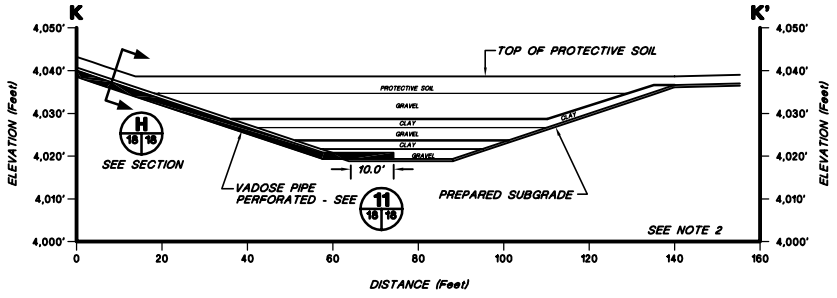
VERTICAL SCALE
0 15' 30'



J/16 16 LDRS PIPE PLACEMENT IN SUMP

HORIZONTAL SCALE
0 15' 30'

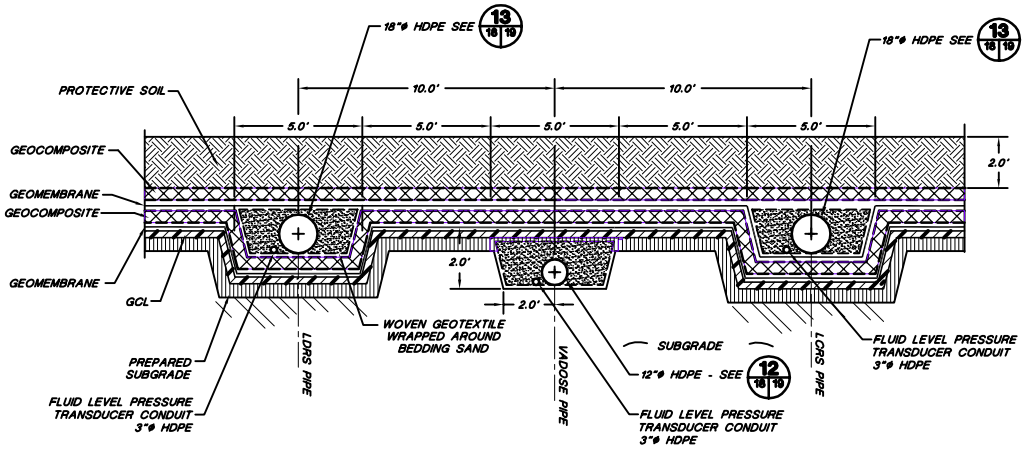
VERTICAL SCALE
0 15' 30'



K/16 16 VADOSE PIPE PLACEMENT IN SUMP

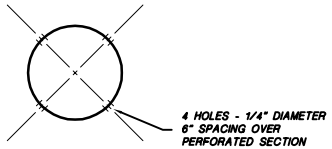
HORIZONTAL SCALE
0 15' 30'

VERTICAL SCALE
0 15' 30'



H/16 16 H/16 16 LDRS, VADOSE AND LCRS PIPES SLOPE SECTION

Not To Scale



11/16 16 PIPE PERFORATION DETAIL

Not To Scale

NOTE:
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
2. SEE 8/16 17 FOR LINER DETAILS IN SUMP.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser

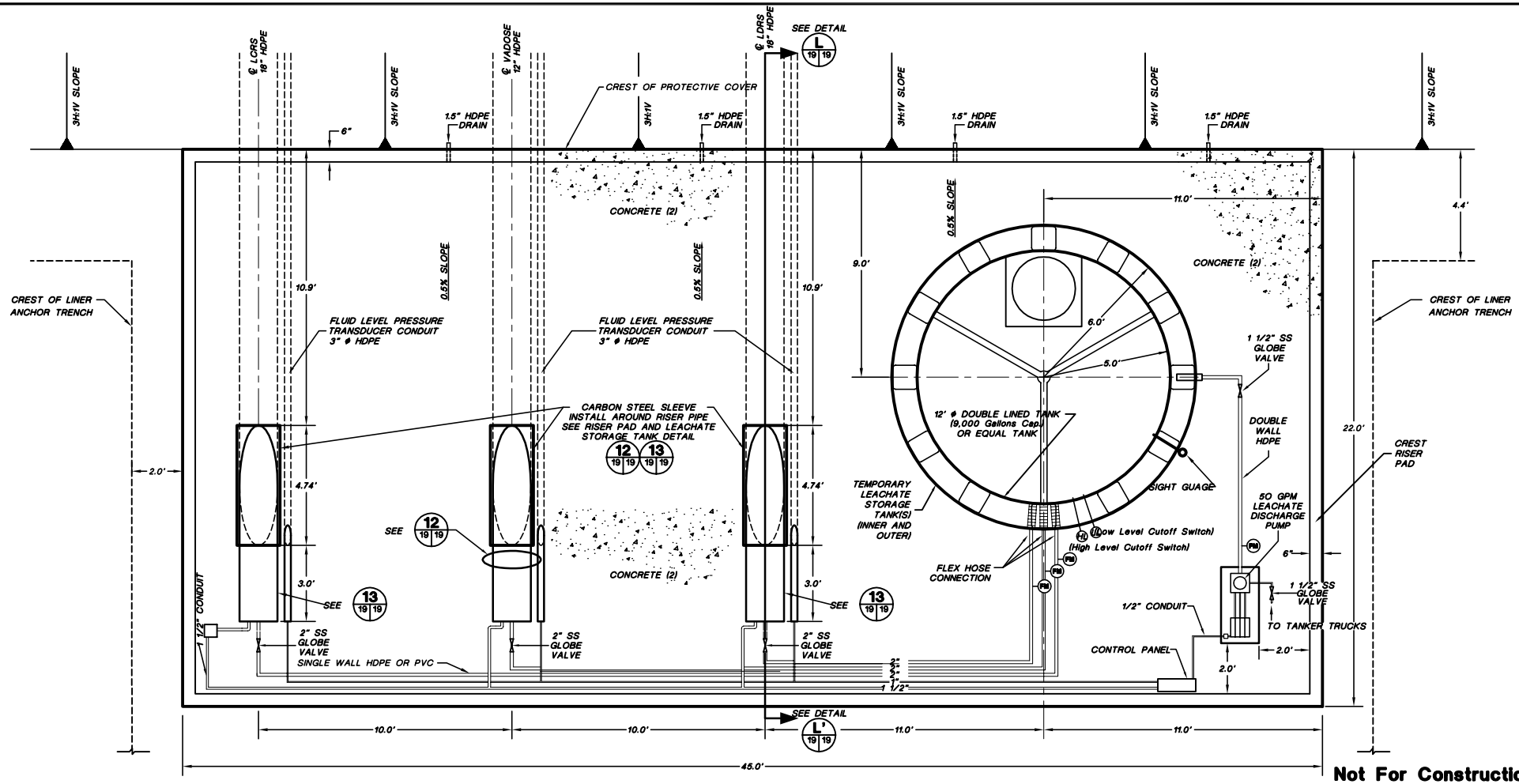
TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: PS-DETAIL.DWG PROJECT NUMBER: 603-0200



CREST RISER PAD AND LEACHATE STORAGE TANK - PLAN VIEW

SCALE
0 2.0' 4.0'
Feet

Not For Construction

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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

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3	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	M.Matthies	P.Corser

TRIASSIC PARK

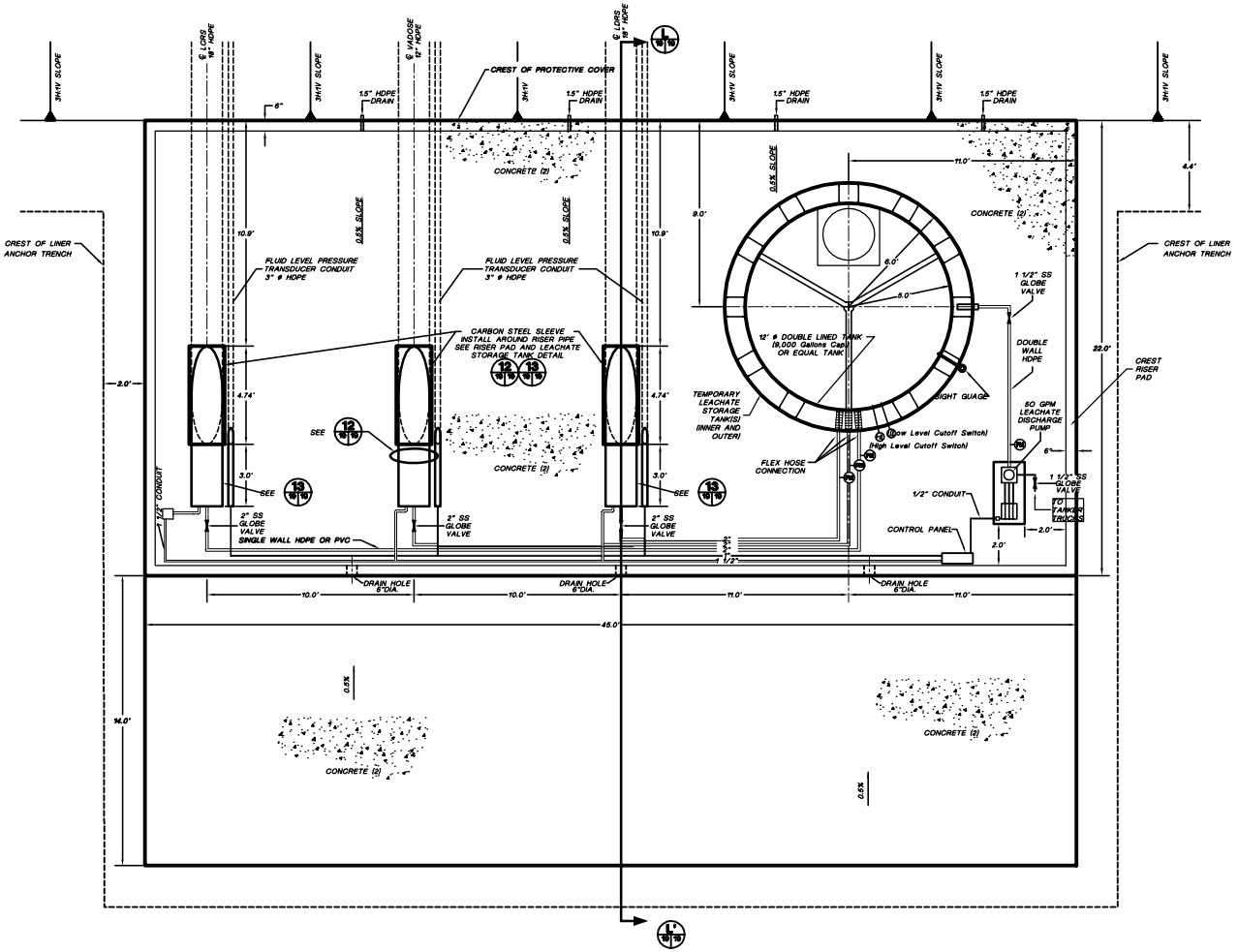
WASTE DISPOSAL FACILITY

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

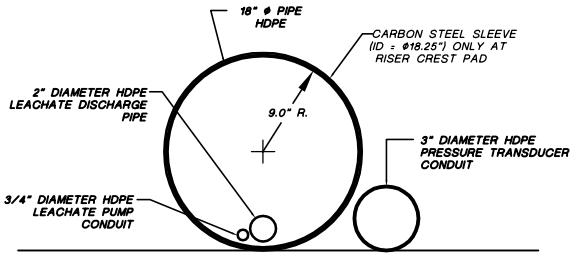
Sheet 1 Of 3 Sheets
SCALE: See Scale Bar
DRAWING No. 19

AutoCAD FILE: CRPLST-DETAIL.DWG PROJECT NUMBER: 602-0200



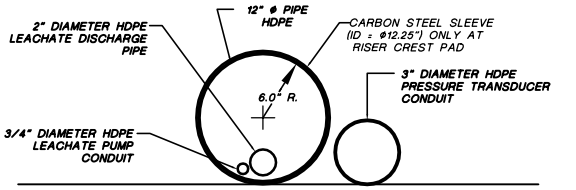
CREST RISER PAD AND LEACHATE STORAGE TANK - PLAN VIEW

SCALE
0 3.0' 6.0'
Feet



13/19/19 LCRS AND LDRS RISER PIPE DETAIL

SCALE
0 0.5' 1.0'
Feet



12/19/19 VADOSE RISER PIPE DETAIL

SCALE
0 0.5' 1.0'
Feet

NOTE:
1) FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
2) FOR CONCRETE DETAILS SEE DRAWING 46.
3) PIPING SYSTEM WILL COMPLY WITH API PUBLICATION 1615 (NOVEMBER 1979) OR ANSI STANDARD B 31.2 AND ANSI STANDARD B 31.4.

PATRICK G. CURSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

I, Patrick G. Curser, 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. Curser, 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.Pelliser	K.Conrath	P.Curser
1	November 1999 Updates	11/02/99	J.Troncoso	M.Mattsson	P.Curser
0	September 1999 Revision	09/01/99	P.Curser	T.Smith	P.Curser

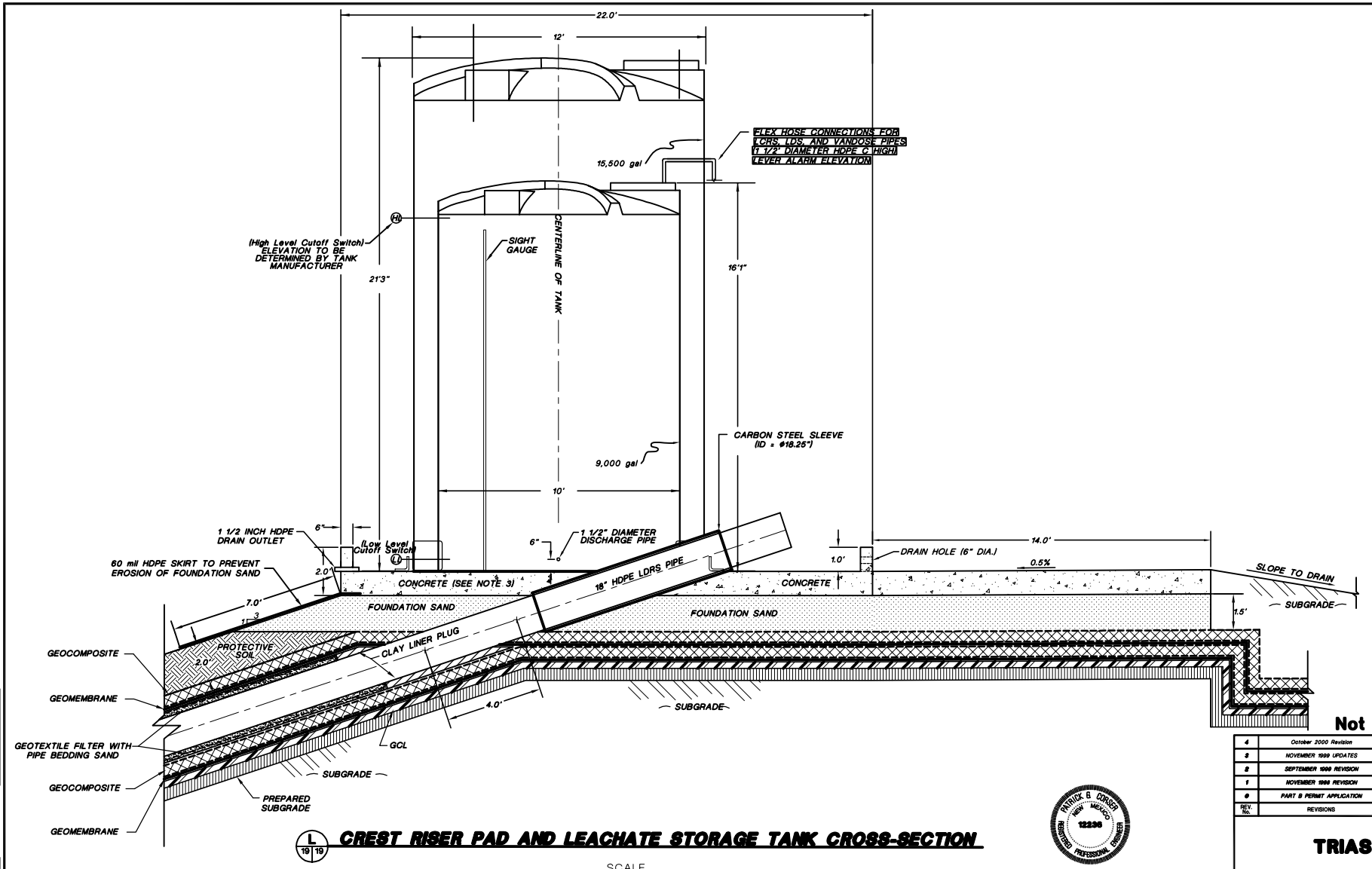
TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: CRPLST-DETAIL3.DWG PROJECT NUMBER: 602-0200



L 19|19 CREST RISER PAD AND LEACHATE STORAGE TANK CROSS-SECTION

SCALE
0 2.0' 4.0'
Feet

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 46.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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 No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	M.Mathisen	P.Corser

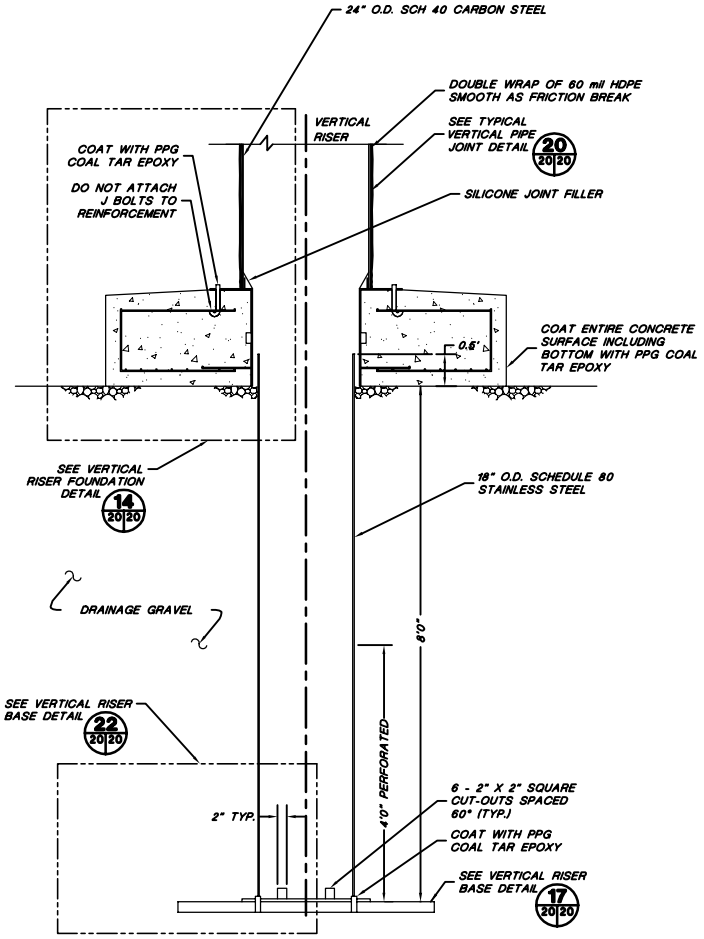
TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

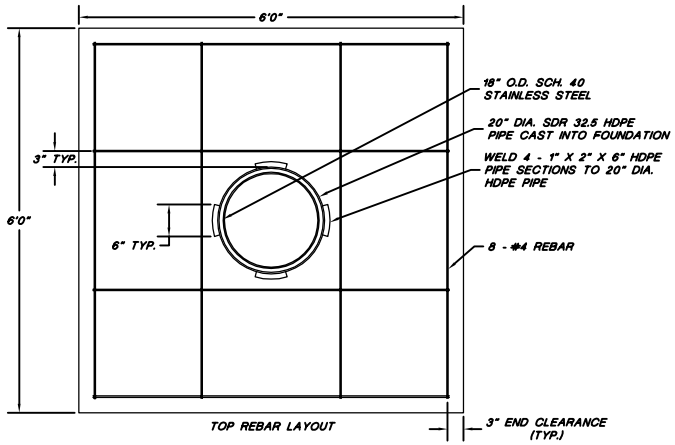
Sheet 3 Of 3 Sheets
SCALE: See Scale Bar
DRAWING No. 19

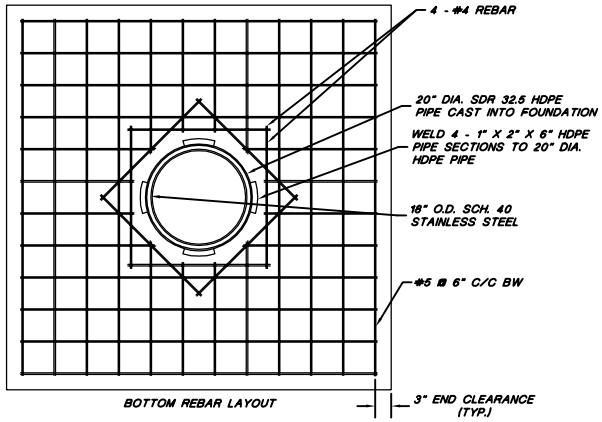
AutoCAD FILE: CRPLST-XSECDWG PROJECT NUMBER: 602-0200



16 17|20 VERTICAL RISER SECTION

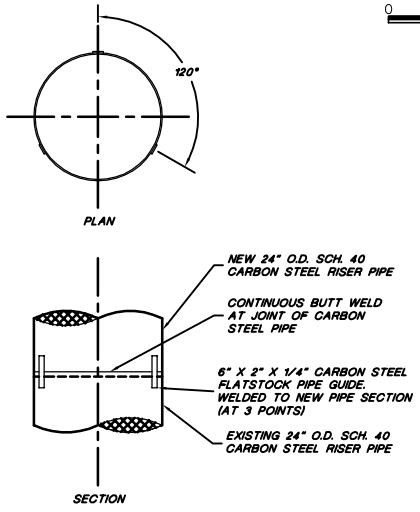
SCALE
0 1' 2'
Feet





21 20|20 VERTICAL RISER BASE DETAIL

SCALE
0 1' 2'
Feet



20 20|20 TYPICAL VERTICAL RISER PIPE JOINT

SCALE
0 1' 2'
Feet

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

PROFESSIONAL ENGINEER'S STATEMENT

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonsen	P.Corser

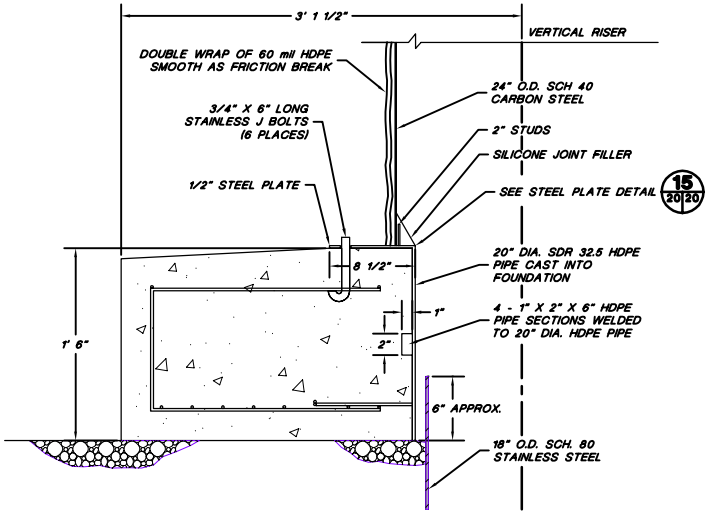
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
VERTICAL RISER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

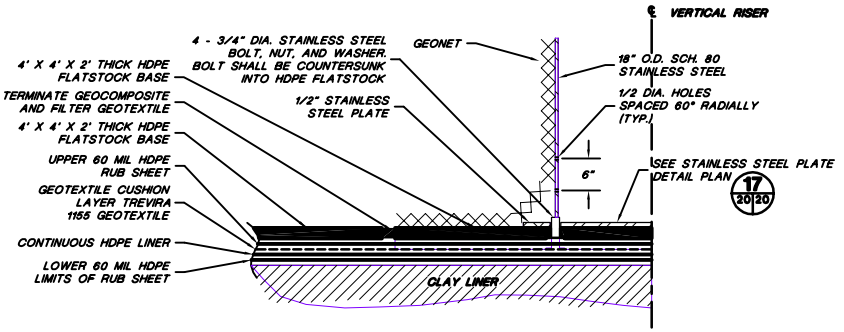
Sheet 1 Of 2 Sheets
SCALE: As Noted
DRAWING No. 20

AutoCAD FILE: GLF-SBD1DWG PROJECT NUMBER: 603-0200



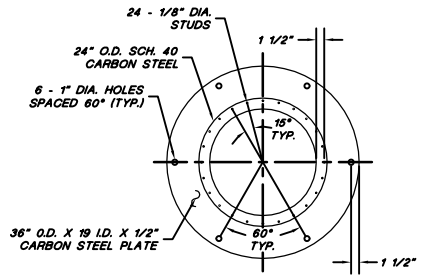
14 20 20 VERTICAL RISER FOUNDATION DETAIL

SCALE
0 0.5' 1'
Feet



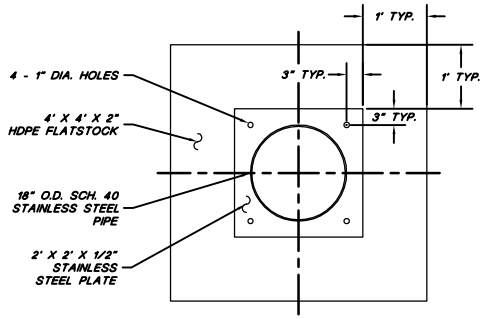
22 20 20 VERTICAL RISER BASE DETAIL

SCALE
0 0.5' 1'
Feet



15 20 20 STEEL PLATE DETAIL

SCALE
0 1' 2'
Feet



17 20 20 STAINLESS STEEL PLATE DETAIL

SCALE
0 1' 2'
Feet

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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TRIASSIC PARK

WASTE DISPOSAL FACILITY

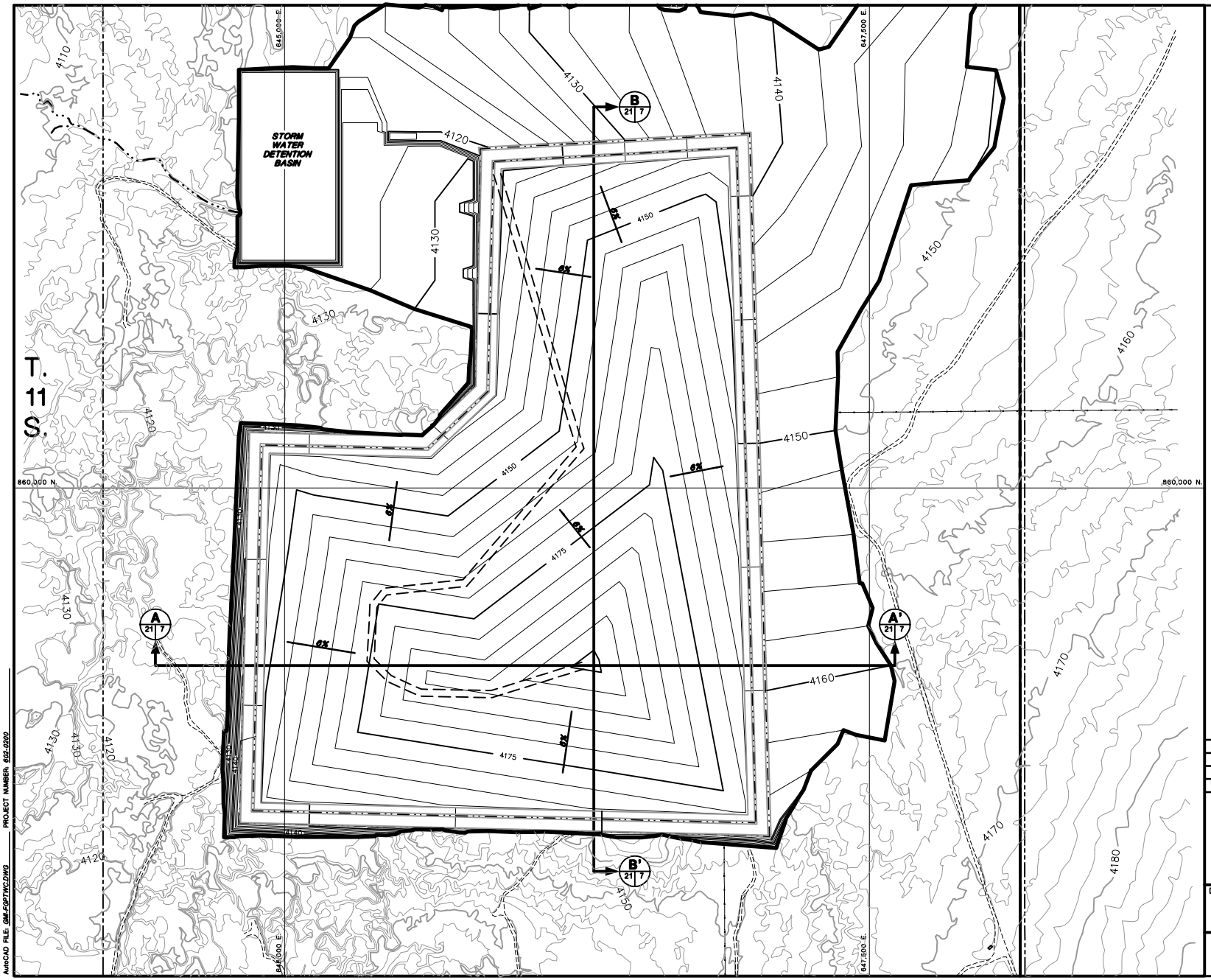
DRAWING TITLE:

VERTICAL RISER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: GLF-SBD-34.DWG PROJECT NUMBER: 603-0200



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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

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

Not For Construction

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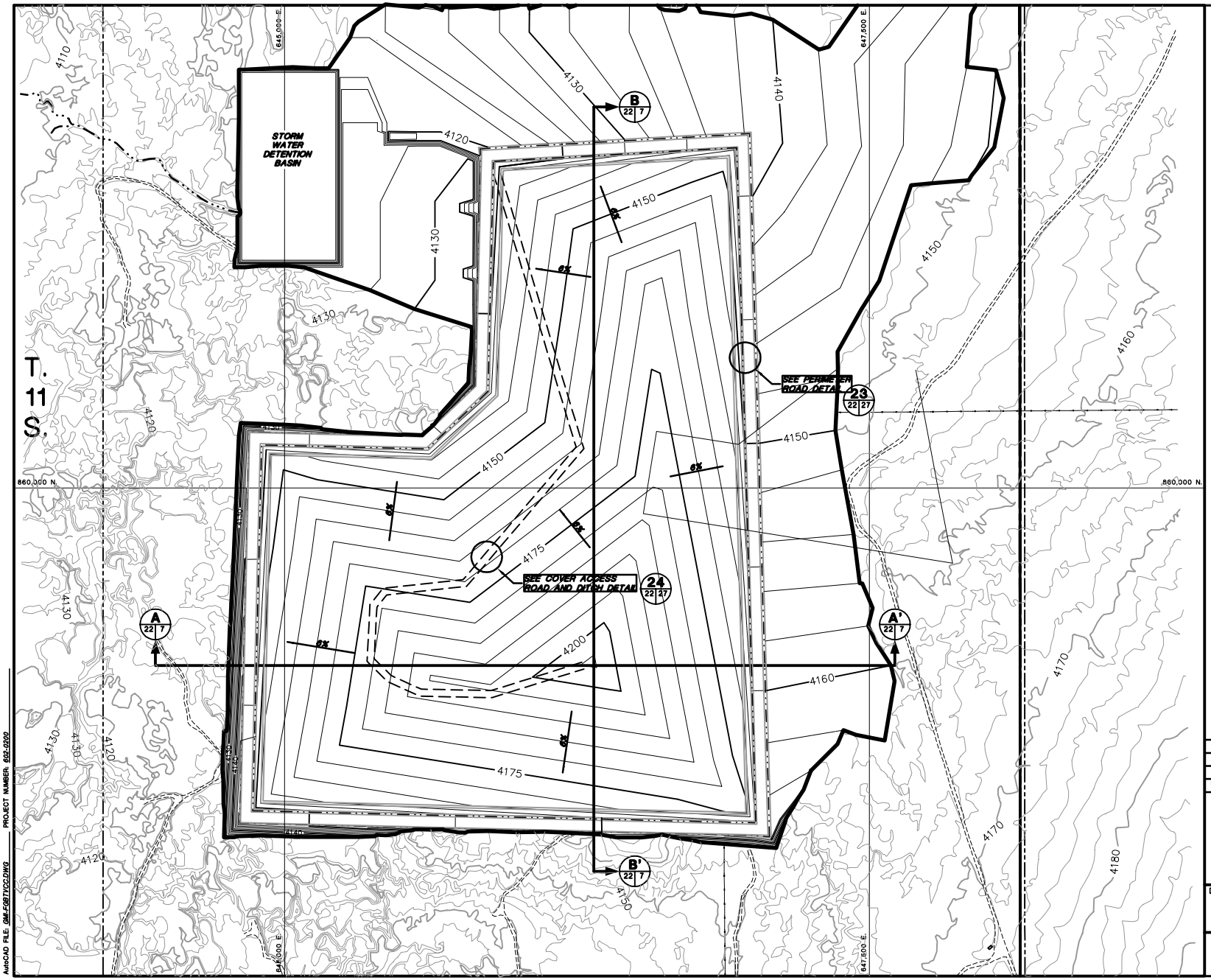
TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

AutoCAD FILE: GM-FGPTWC.DWG PROJECT NUMBER: 696-0200



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2. TOPOGRAPHY FROM AERIAL SURVEYS PERFORMED AUGUST 1997 BY KOOGLE AND POULS ENGINEERING.

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

Not For Construction

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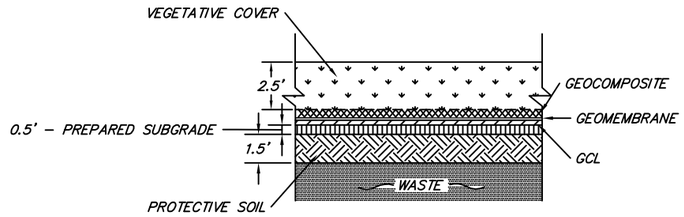
TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

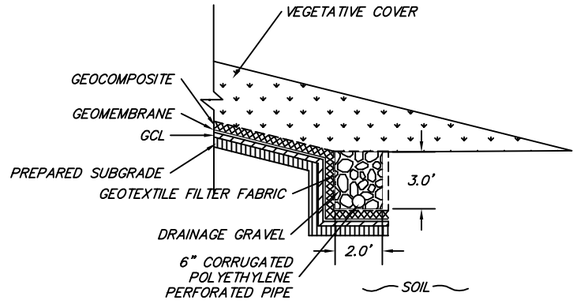
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 1 Sheets
SCALE: AS NOTED
DRAWING No. 22

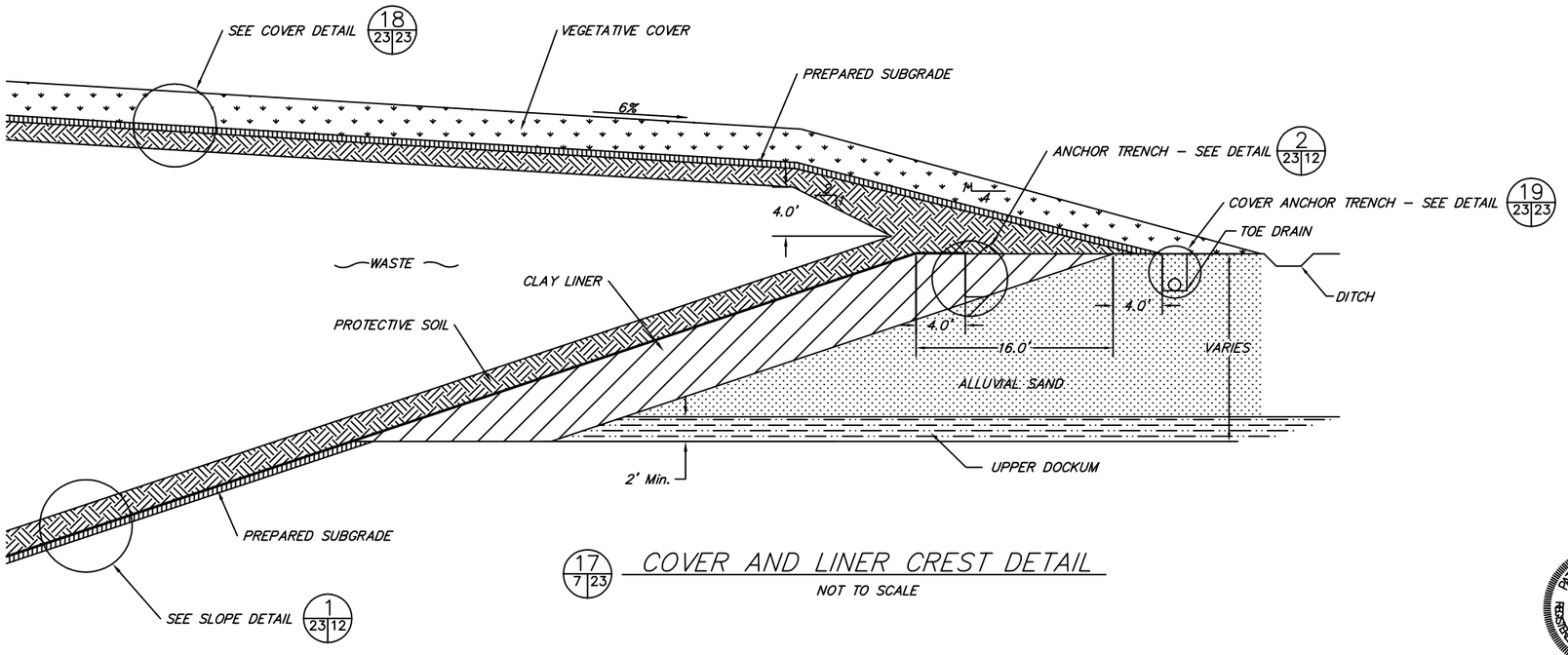
AutoCAD FILE: GM-FGBTVCCDWG PROJECT NUMBER: 696-0200



18 / 23 23 COVER DETAIL
NOT TO SCALE



19 / 23 23 COVER ANCHOR TRENCH DETAIL
NOT TO SCALE



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

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

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

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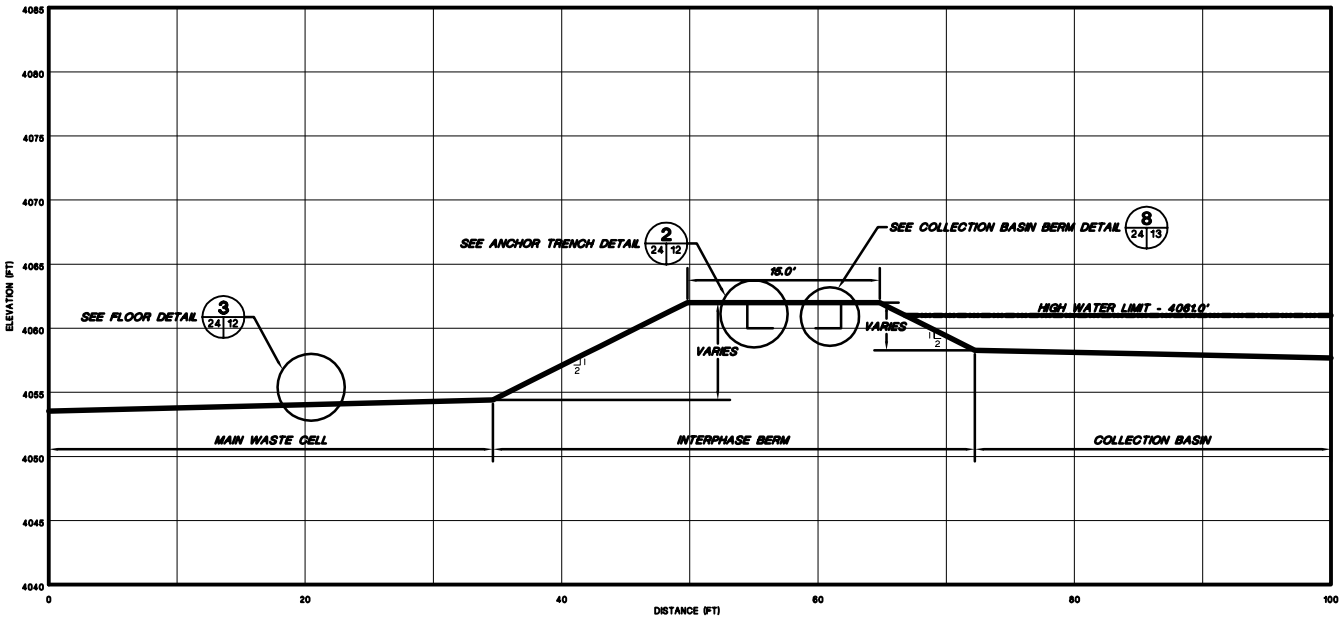
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
FINAL COVER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

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



M 13 24 INTERPHASE BERM CROSS-SECTION M

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".

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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser

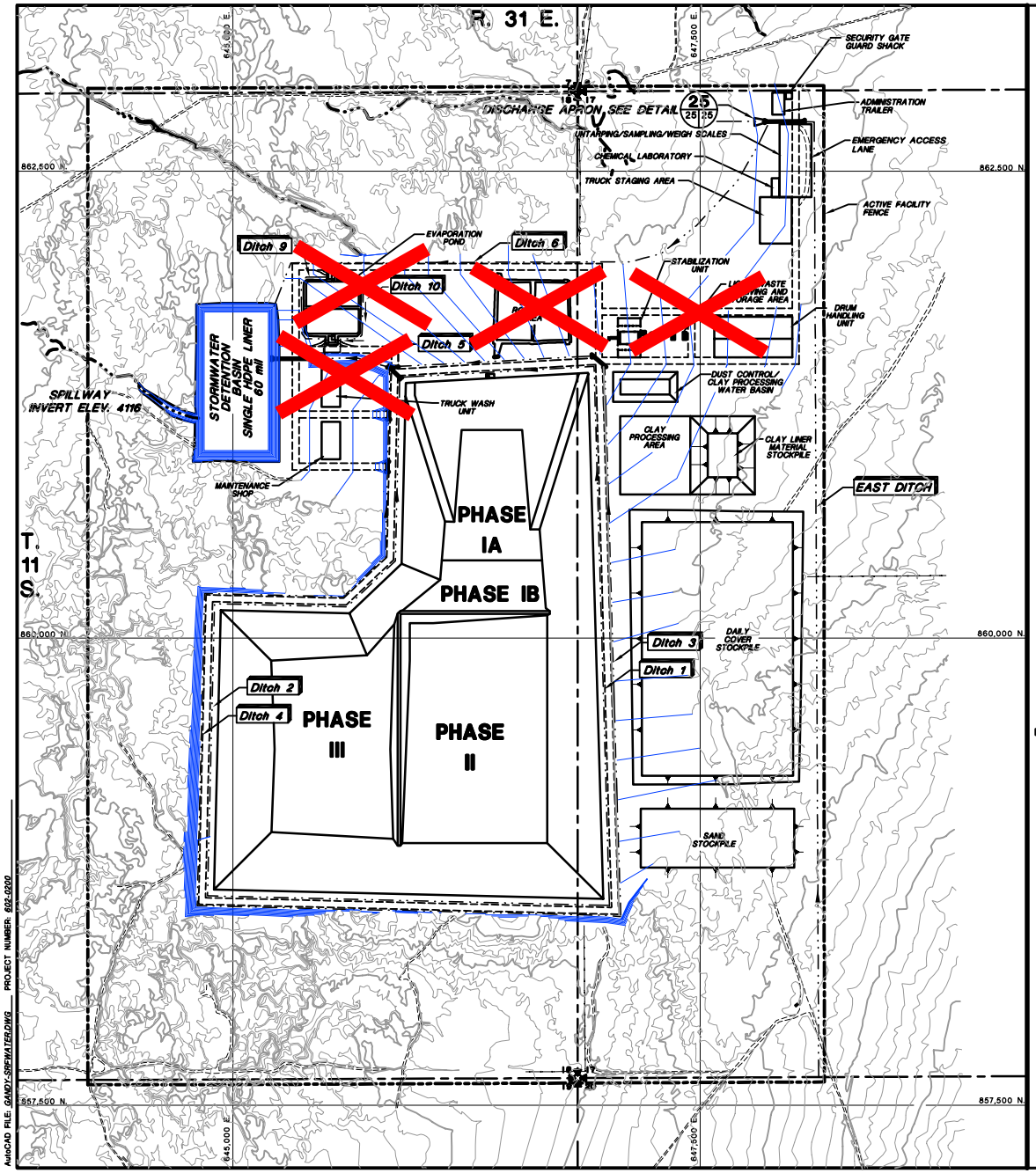
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
INTERPHASE BERM SECTION

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: GANOY-PBERM PROJECT NUMBER: 602-0200



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.

N

SCALE
300' 0 300' 600'

Not For Construction

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PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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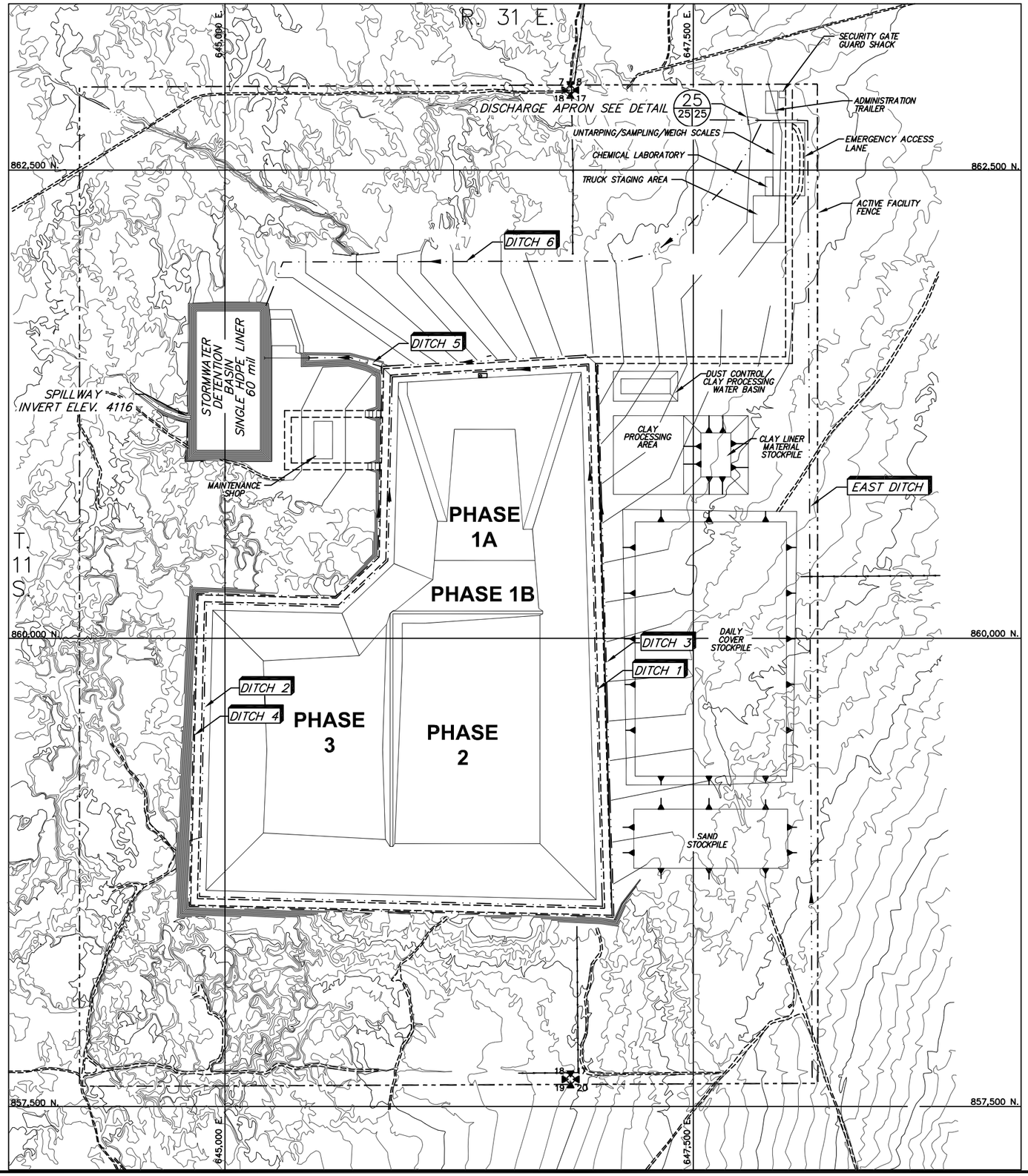
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
SURFACE WATER CONTROL FEATURES

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

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



SCALE

300' 0 300' 600'

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: ES11.0141_Triassic_Park_Permit_Renewal\ES11.0141_LOM_SurfaceWaterControlFeatures_25.dwg

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
TG	KDB	GDP	10/18/2011

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

SURFACE WATER CONTROL FEATURES

GUNDAR PETERSON — NEW MEXICO — 16038 — LICENSED PROFESSIONAL ENGINEER — 10/20/2011

JOB NO. ES11.0141

SHEET 1 of 2
DWG NO. 25

XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34

CHANNEL DESIGNS

Ditch	25-yr,24-hr Flow Q (cfs)	Slope (%)	Bottom Width (BW) (ft)	Sideslope H:1V	Depth of Flow (D) (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(6)	0.5	20.0	3	2.6	4.9	1.0	3.4	Gravel D50=3"	7	7
~~9,10~~	~~99.1~~	~~0.5~~	~~3.0~~	~~3~~	~~2.1~~	~~4.7~~	~~1.0~~	~~3.1~~	~~NONE~~	~~7~~	~~7~~

Ditches 9 and 10 eliminated for 2011 permit renewal.

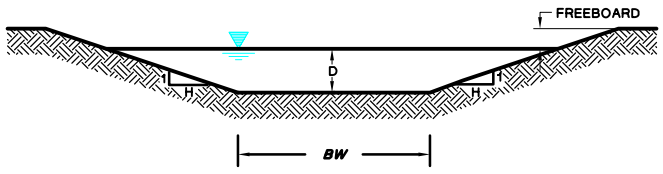
NOTES:
(1) Maximum allowable velocity for channels without erosion protection 5 fps
(2) Channels with velocities greater than 5 fps for the 25-yr event and less than the 5 fps for the 2 year storm will not be lined.
(3) Maximum allowable velocity for gravel lined channels is 6 fps.
(4) Depth of Flow 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 event flow velocity would also be less than 5 fps, or because erosion protection had already been specifed.

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

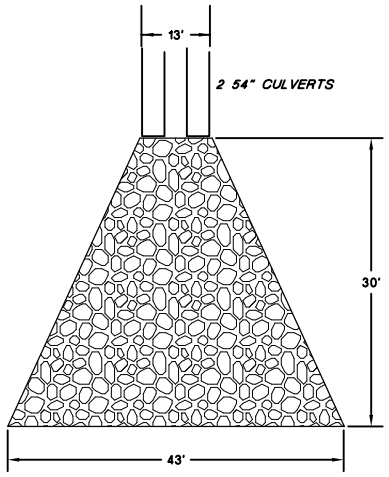
CULVERT DESIGNS

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
~~9 and 10~~	~~99.1~~	~~50~~	~~2~~	~~36~~	~~100~~

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



TYPICAL CHANNEL



NOTE:
RIP RAP D_{50} = 2', DEPTH OF ROCK 3'

25/25/26 RIP RAP OUTLET APRON DETAIL
Not To Scale

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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TRIASSIC PARK
WASTE DISPOSAL FACILITY

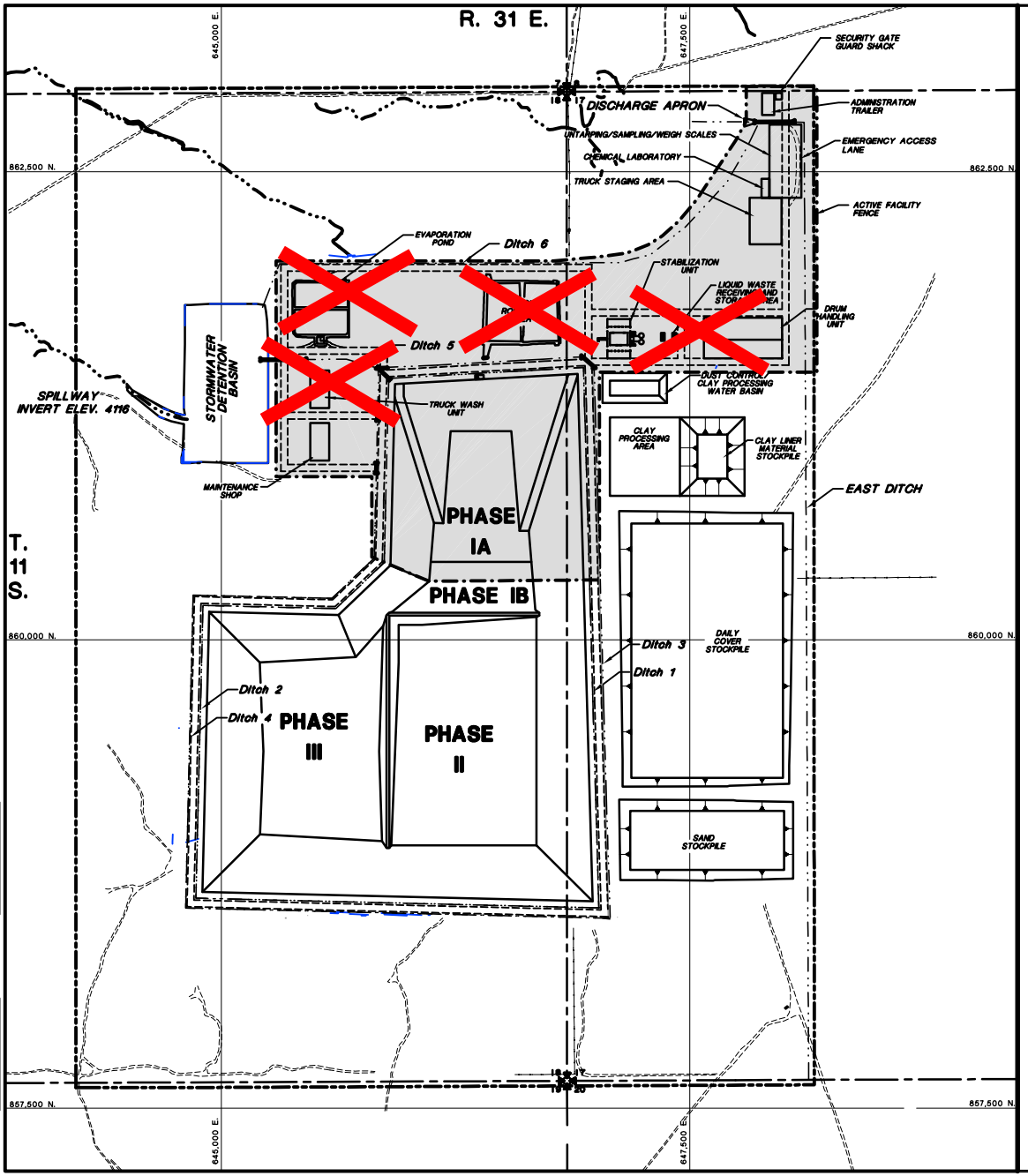
DRAWING TITLE:
SURFACE WATER CONTROL DETAILS

TerraMatrix MONTGOMERY WATSON Mining Group

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

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

AutoCAD FILE: GANDY-SRW\TROTLSDWG PROJECT NUMBER: 602-0200



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.

SCALE
300' 0 300' 600'

Not For Construction

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

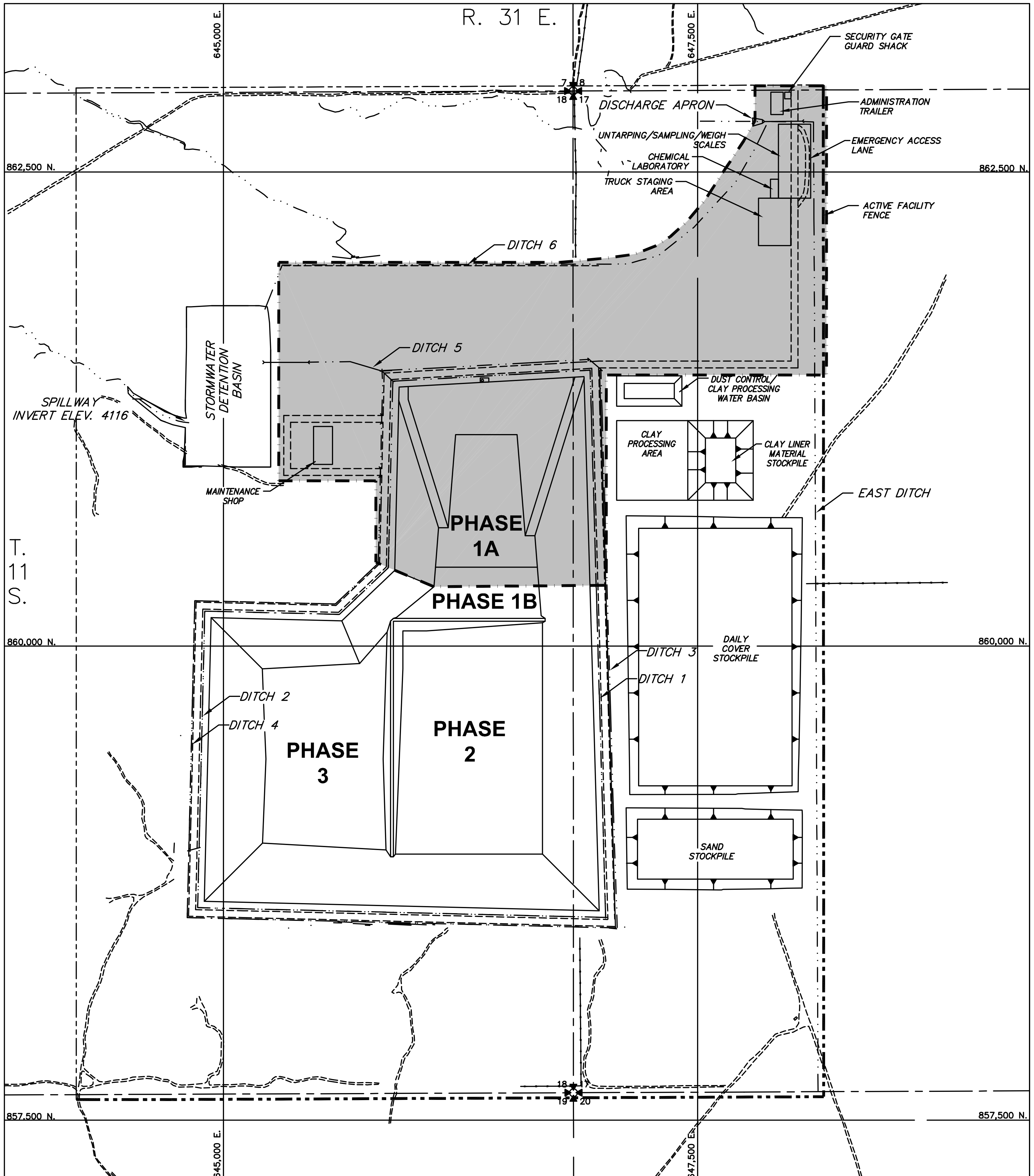
TRIASSIC PARK
WASTE DISPOSAL FACILITY

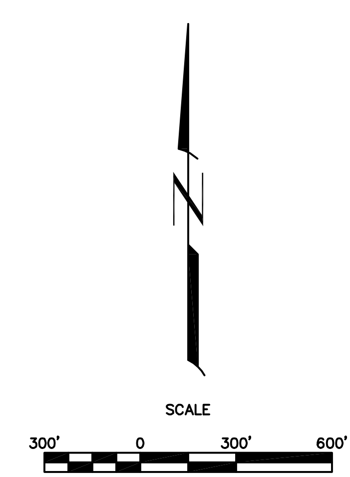
DRAWING TITLE:
TRAFFIC PLAN

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 2 Sheets
SCALE: AS NOTED
DRAWING No. 26

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





LEGEND
Limits of landfill operations and 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

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

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

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

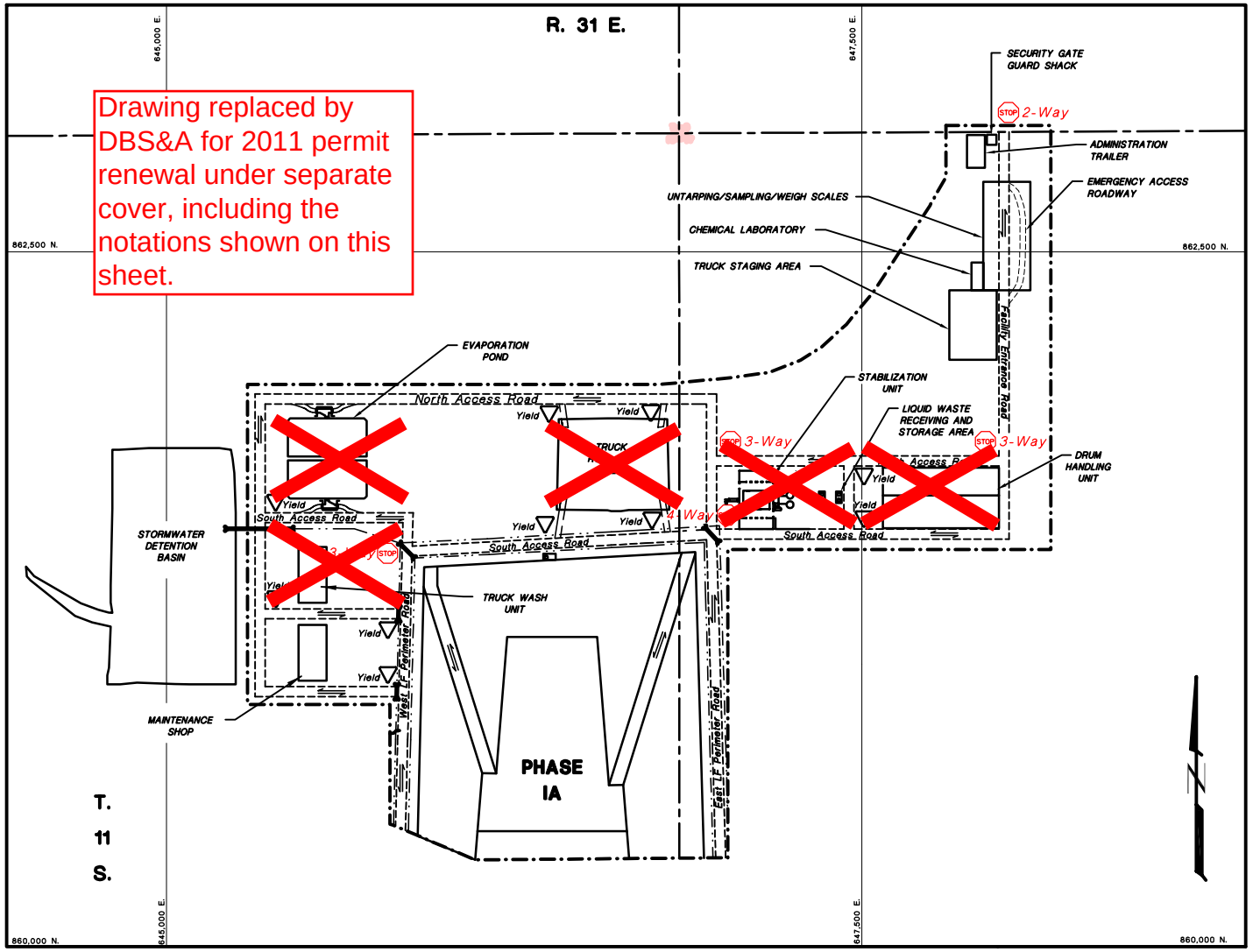
TRAFFIC PLAN

GUNDAR PETERSON, NEW MEXICO, 16038, LICENSED PROFESSIONAL ENGINEER

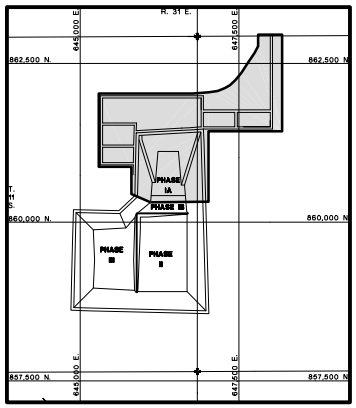
JOB NO. ES11.0141

SHEET 1 of 2
DWG NO. 26

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



MAP KEY



NOTES:

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/1/00	J.Pelliser	K.Conreth	P.Corser
1	NOVEMBER 1998 REVISION	10/26/98	J.Pelliser	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conreth	P.Corser

TRIASSIC PARK
WASTE DISPOSAL FACILITY

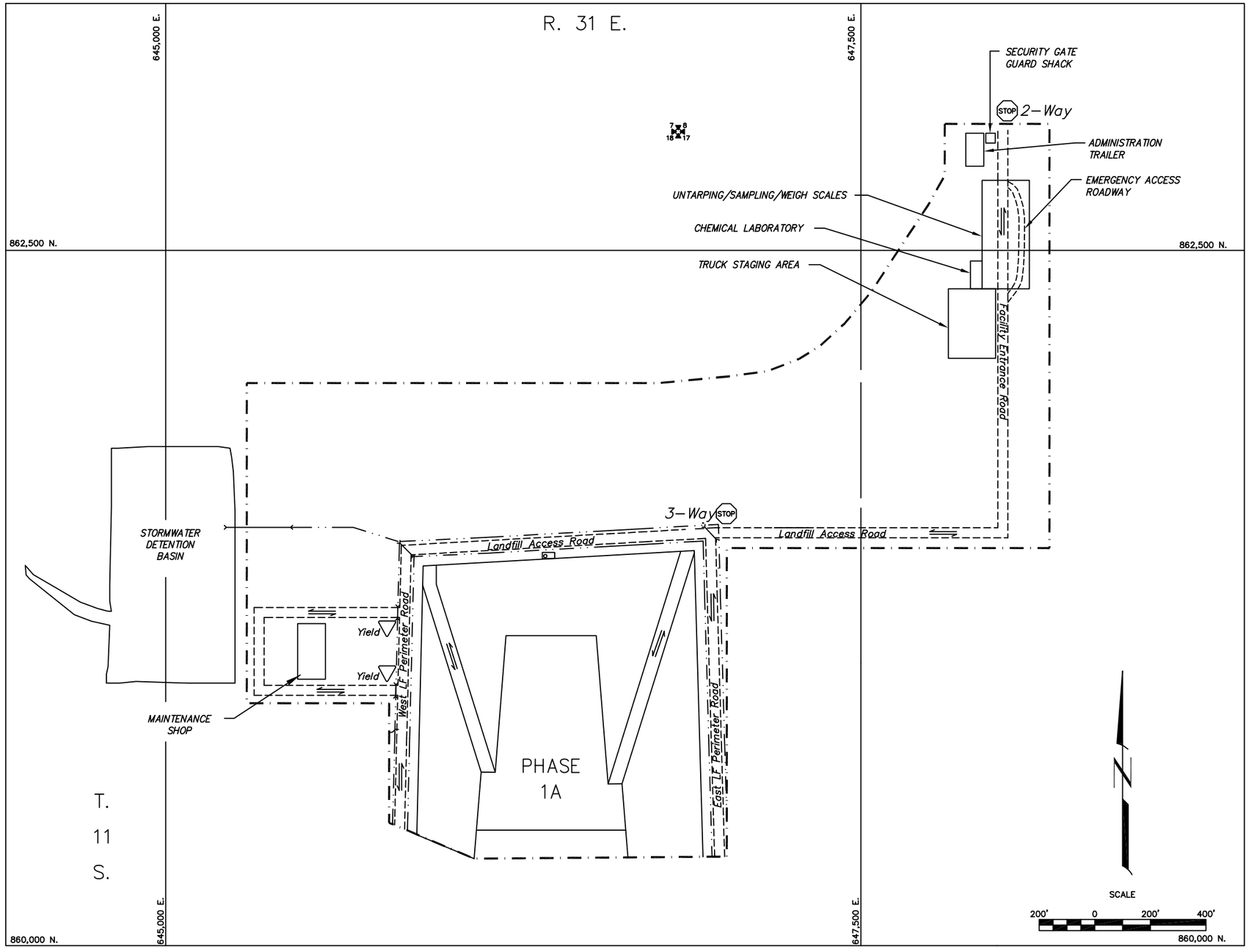
DRAWING TITLE:

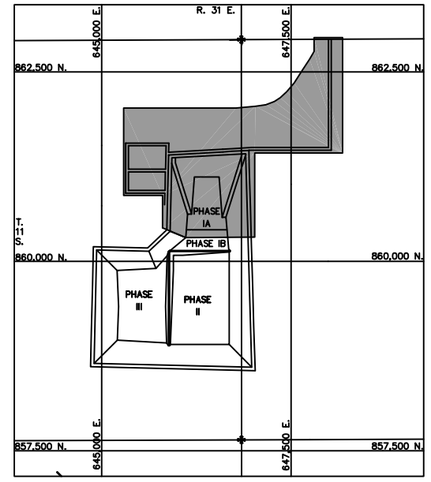
TRAFFIC PLAN

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: GANDY\TRAVEL2.DWG PROJECT NUMBER: 692-0200





MAP KEY

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

PRELIMINARY - NOT FOR CONSTRUCTION

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

FILE NAME: ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34

Daniel B. Stephens & Associates, Inc.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
6020 ACADEMY NE, SUITE 100
ALBUQUERQUE, NM 87109
(505) 822-9400

DESIGNED BY: TG
DRAWN BY: KDB
CHECKED BY: GDP
DATE: 10/2011

TRIASSIC PARK WASTE DISPOSAL FACILITY
CHAVEZ COUNTY, NEW MEXICO

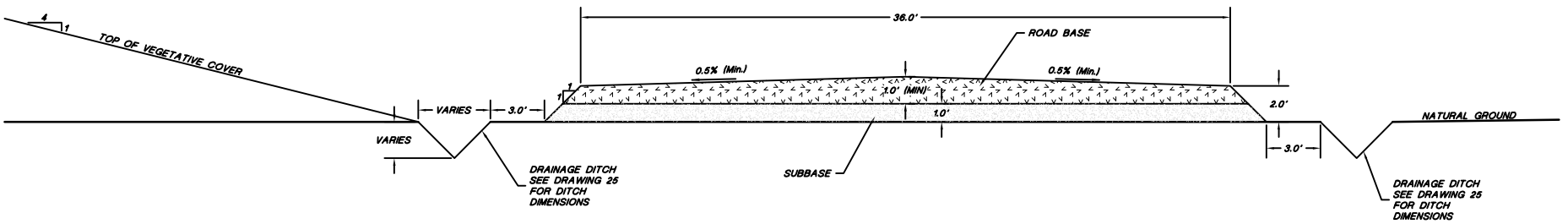
TRAFFIC PLAN

GUNDAR PETERSON
NEW MEXICO
16038
10/30/2012
LICENSED PROFESSIONAL ENGINEER

JOB NO.
ES11.0141

SHEET 2 of 2
DWG NO. 26

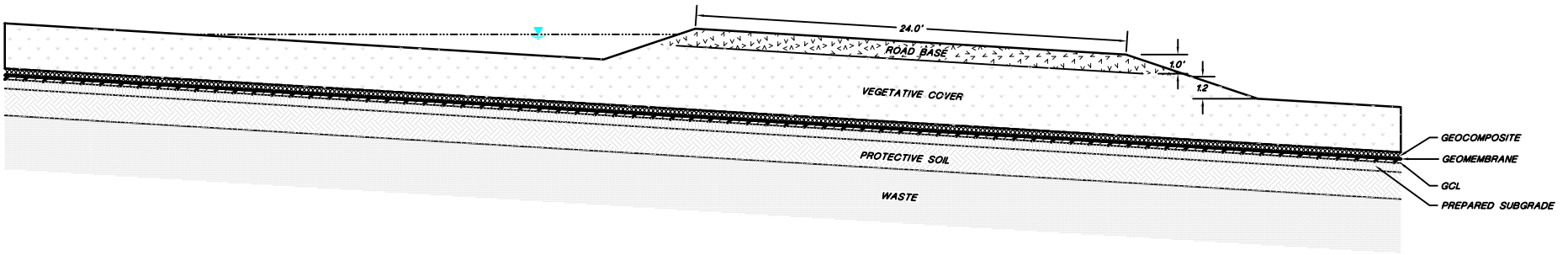
XREF: S:\PROJECTS\ES11.0141_TRIASSIC_PARK_PERMIT_RENEWAL\VR_DRAWINGS\TITLEBLOCK\TB_22X34



23/22/27 PERIMETER ROAD DETAIL

HORIZONTAL SCALE
0 3' 6'

VERTICAL SCALE
0 3' 6'



24/22/27 COVER ACCESS ROAD AND DITCH DETAIL

HORIZONTAL SCALE
0 3' 6'

VERTICAL SCALE
0 3' 6'

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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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 No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
2	October 2000 Revision	10/1/00	J.Pelliser	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pelliser	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	TWS	PGC

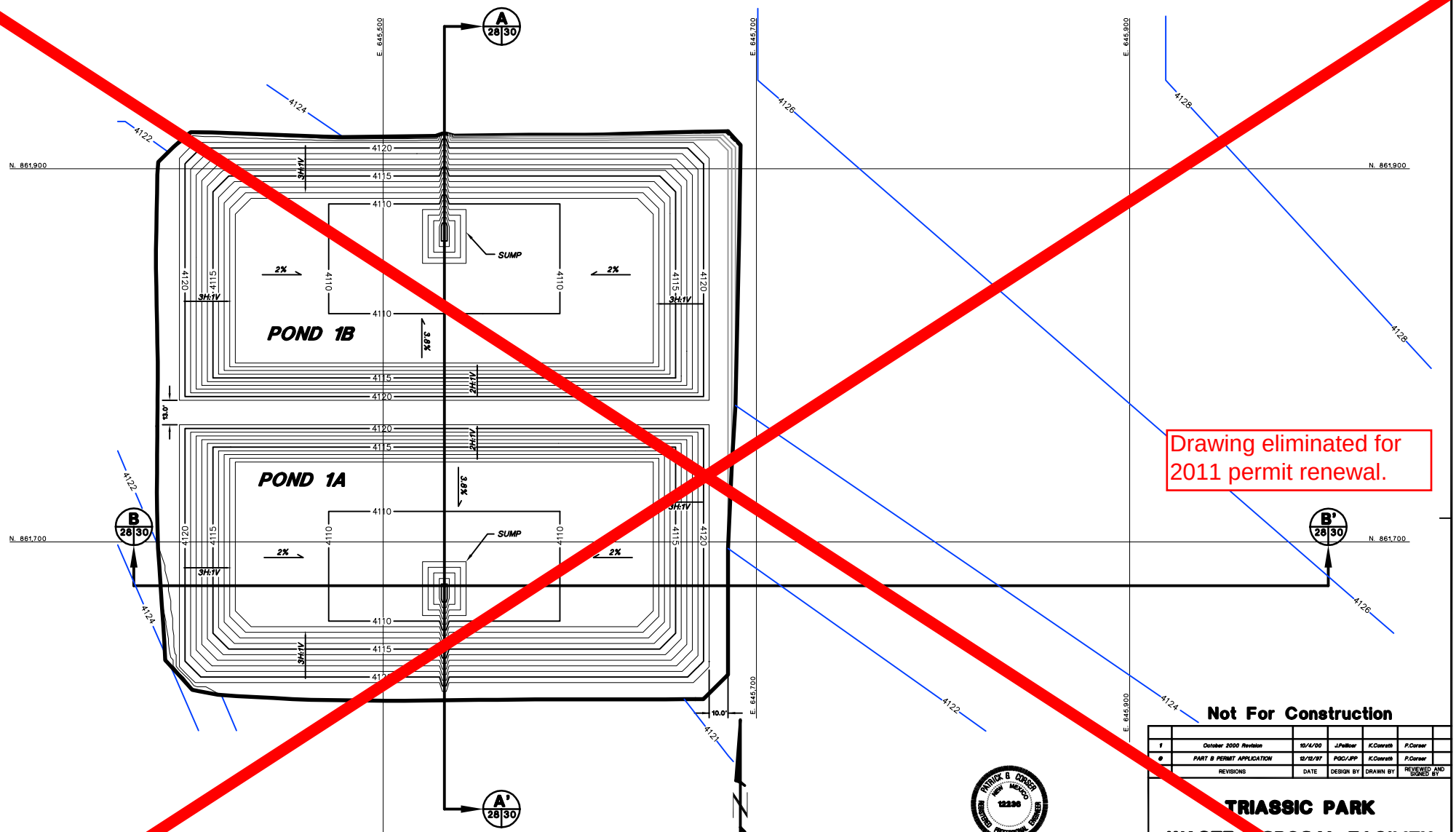
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
PERIMETER ROAD DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

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

AutoCAD FILE: GAMOY-ROORROOR.DWG PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

Not For Construction

1	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:
EVAPORATION POND SUBGRADE CONTOURS - PHASE 1

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

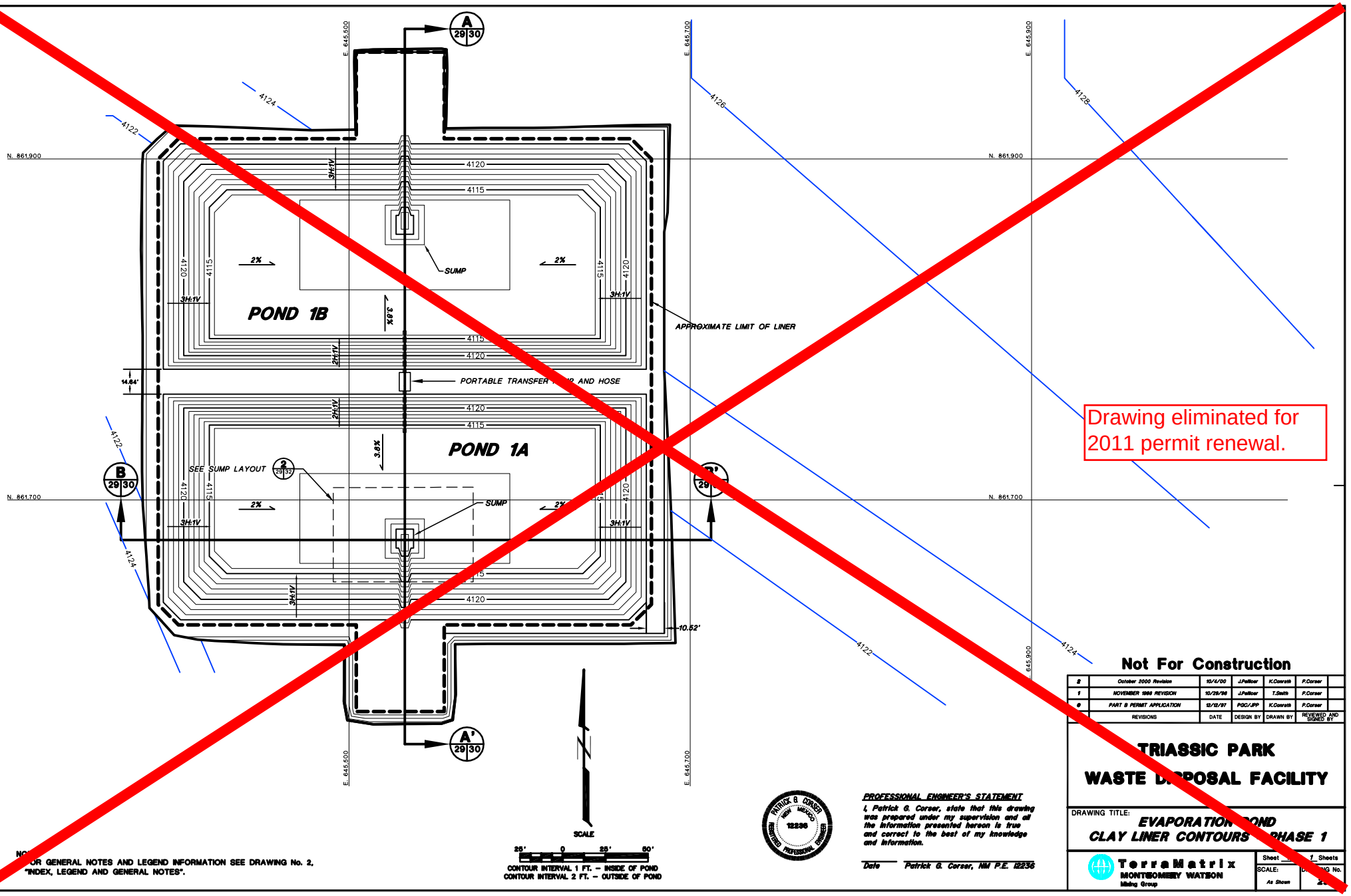
I, Patrick G. Corser, state that this drawing was prepared under my supervision and all the information presented hereon is true and correct to the best of my knowledge and information.

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

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet ___ of 1 Sheets
SCALE: As Shown
DRAWING No. 2C

AutoCAD FILE: SUBGRD-CONTR.DWG PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

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

PROFESSIONAL ENGINEER'S STATEMENT

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

Not For Construction

2	October 2000 Revision	10/1/00	J.Pelliser	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pelliser	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

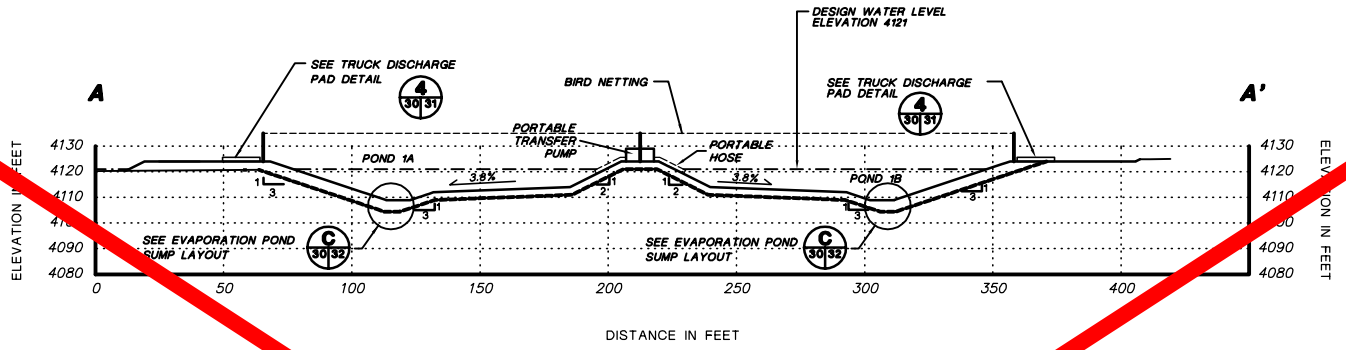
TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:
EVAPORATION POND CLAY LINER CONTOURS PHASE 1

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 of 1 Sheets
SCALE: As Shown
DRAWING No. 21

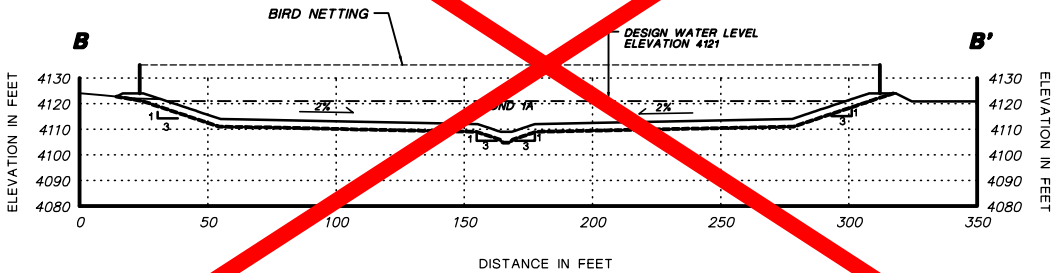
AutoCAD FILE: CLAY-CONT2.DWG PROJECT NUMBER: 602-0200



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.

Not For Construction

3	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
2	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathison	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
EVAPORATION POND CROSS SECTION

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet ___ of ___ Sheets
SCALE: As Shown
DRAWING No.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

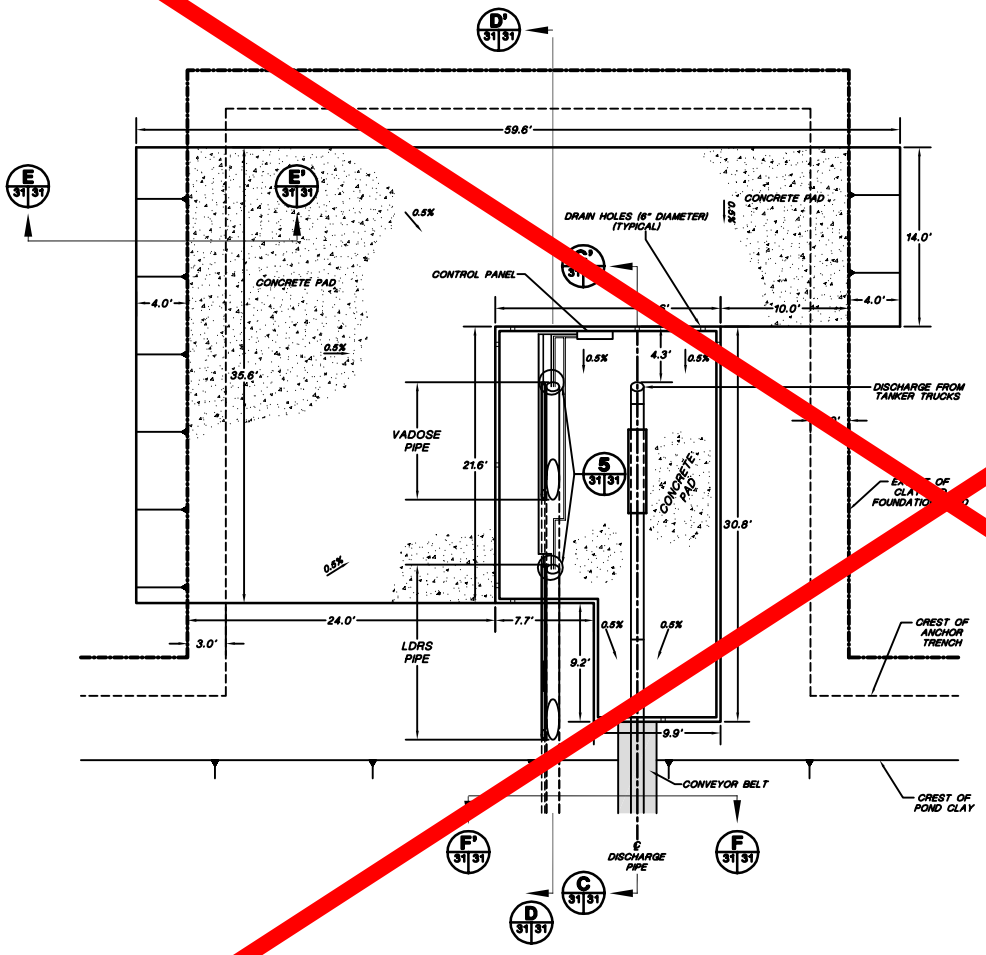
PROFESSIONAL ENGINEER'S STATEMENT

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

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

AutoCAD FILE: EPSECS28.DWG PROJECT NUMBER: 603-0200

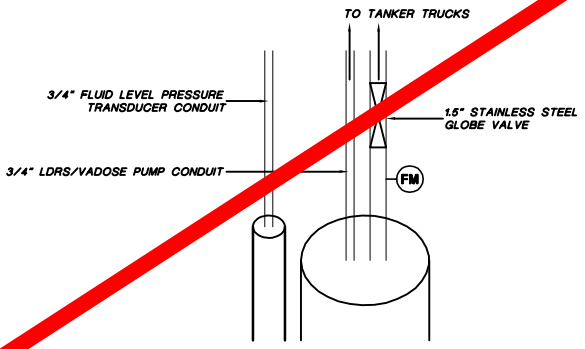


4 30 31 TRUCK DISCHARGE STATION LAYOUT

SCALE

5' 0 5' 10'

CONTOUR INTERVAL N.A.



5 31 31 PIPE CONDUIT DETAIL

NOT TO SCALE

Drawing eliminated for 2011 permit renewal.

NOTES:

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 B31.2 AND ANSI STANDARD B31.4.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/28/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT	11/17/97	PGC/JCK/JP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK

WASTE DISPOSAL FACILITY

DRAWING TITLE:

EVAPORATION POND TRUCK DISCHARGE STATION

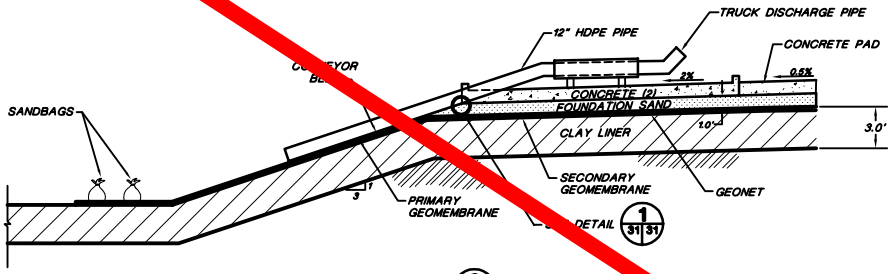
TerraMatrix MONTGOMERY WATSON Natural Resources Group

Sheet 2 Sheets

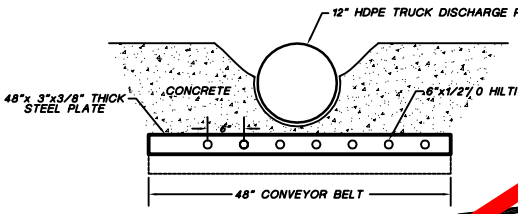
SCALE: As Shown

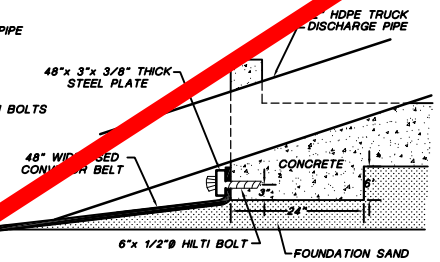
DRAWING No. 3

AutoCAD FILE: TANKCAD2.DWG PROJECT NUMBER: 602-0200

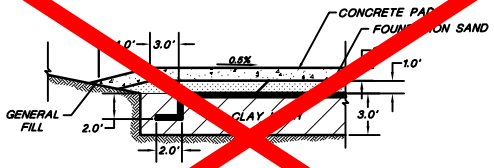


C 31 31 CROSS-SECTION C-C'
Not To Scale

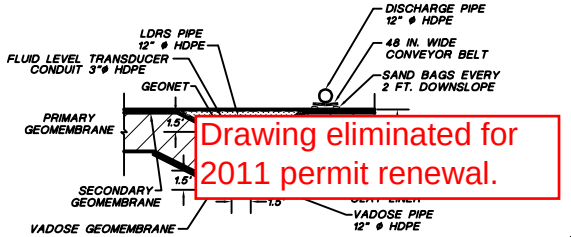




1 31 31 DETAIL CONVEYOR BELT CONNECTION
Not To Scale

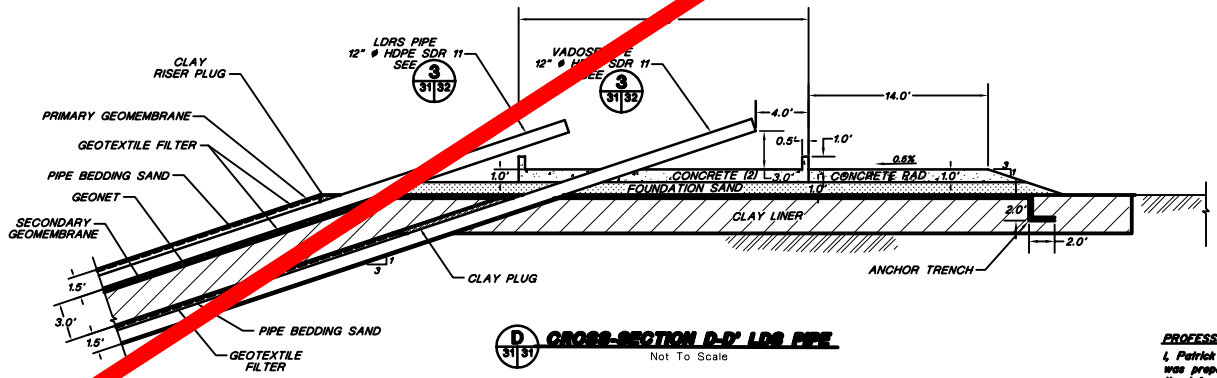


E 31 31 CROSS-SECTION E-E' ACCESS RAMP
Not To Scale



F 31 31 CROSS-SECTION F-F' CONVEYOR BELT
Not To Scale

Drawing eliminated for 2011 permit renewal.



D 31 31 CROSS-SECTION D-D' LDS PIPE
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

4	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Matthisen	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
EVAPORATION POND
TRUCK DISCHARGE STATION

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 Sheets
SCALE: As Shown
DRAWING No. 3

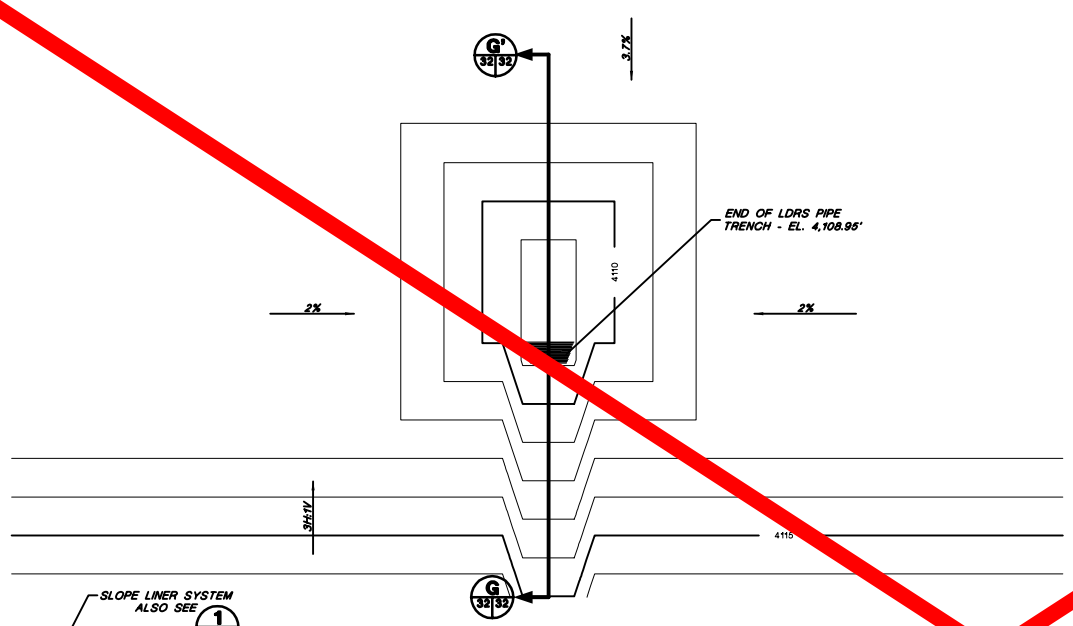
PROFESSIONAL ENGINEER'S STATEMENT

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*

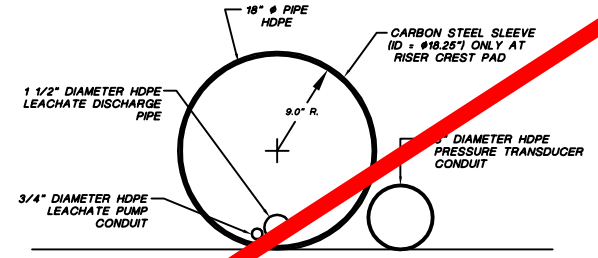
PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

AutoCAD FILE: TAMCPA03.DWG PROJECT NUMBER: 602-0200



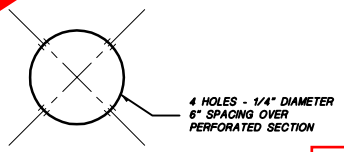
2 29|32 **EVAPORATION POND SUMP LAYOUT**

SCALE
0 5' 10'
Feet



3 31|32 **LCRS AND LDRS RISER PIPE DETAIL**

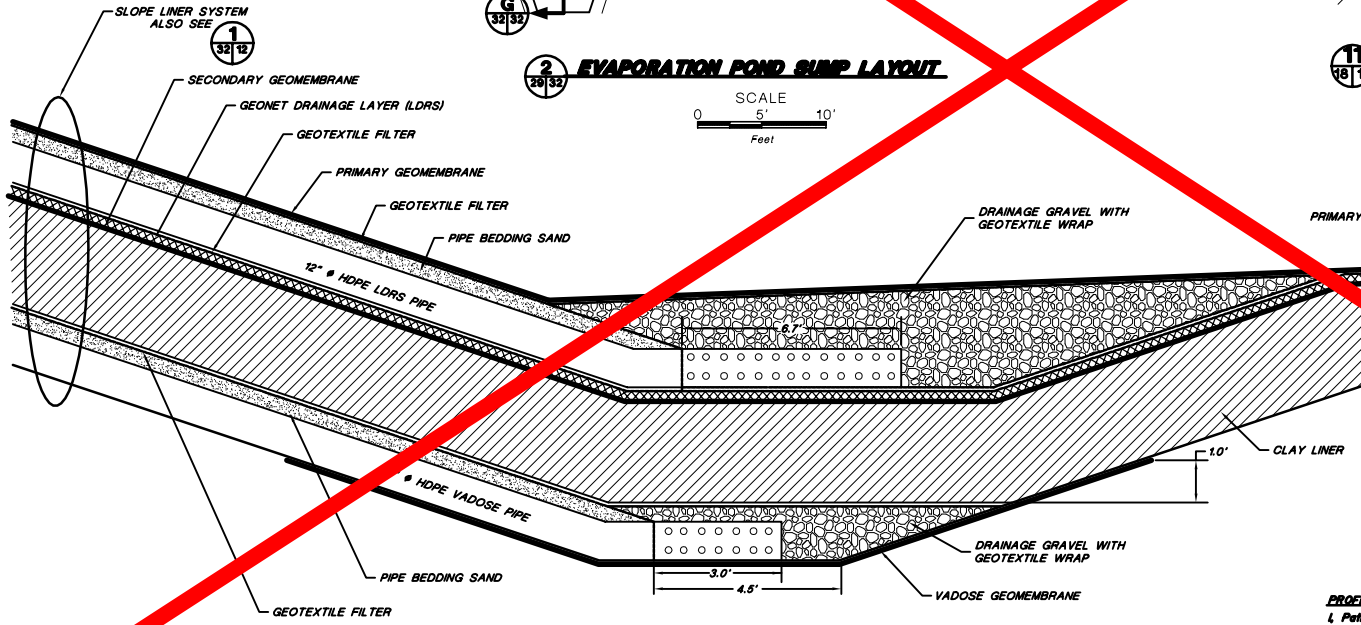
SCALE
0 0.5' 1.0'
Feet



11 18|18 **PIPE PERFORATION DETA**

Not To Scale

Drawing eliminated for 2011 permit renewal.



G 32|32 **EVAPORATION POND SUMP CROSS-SECTION**

Not To Scale

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

Not For Construction

2	October 2000 Revision	10/1/00	J.Pelicer	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

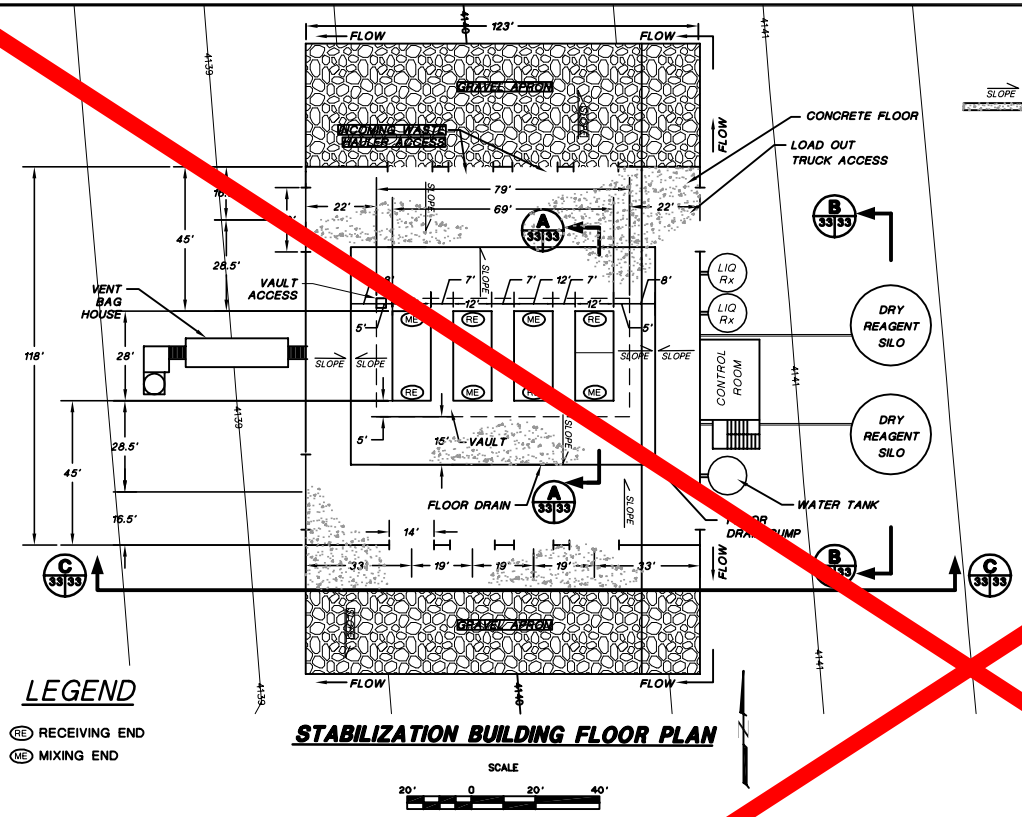
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
EVAPORATION POND LDRS AND VADOSE PLAN AND DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 of 1 Sheets
SCALE: As Shown
DRAWING No. 3

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

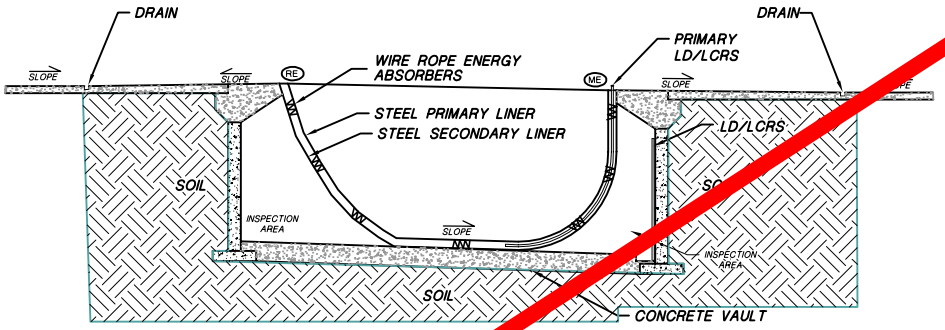


LEGEND

(RE) RECEIVING END
(ME) MIXING END

STABILIZATION BUILDING FLOOR PLAN

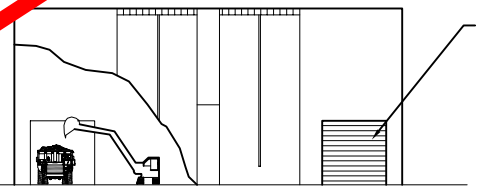
SCALE
20' 0 20' 40'



TYPICAL BIN / VAULT SECTION

SCALE
0 5' 10'

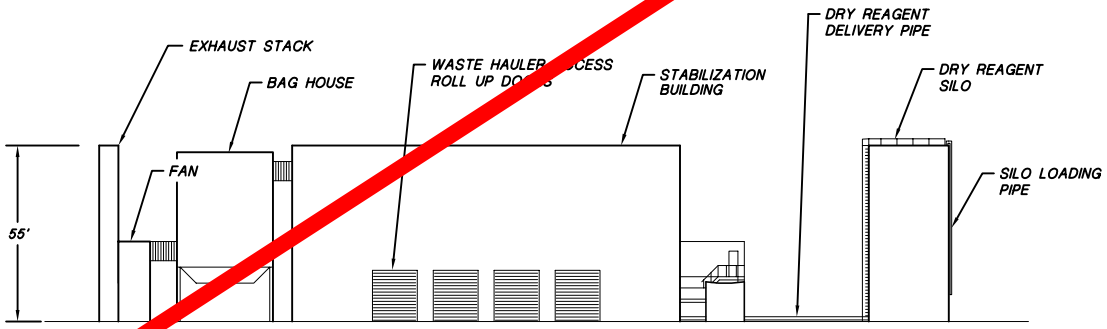
NOTE:
SEE DRAWING 35 FOR BIN DETAILS



TYPICAL END ELEVATION

Not To Scale

Drawing eliminated for 2011 permit renewal.



TYPICAL FRONT ELEVATION

Not To Scale

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

PATRICK G. CONRATH NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

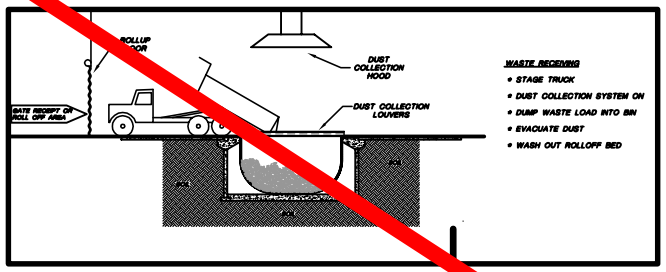
TRIASSIC PARK
WASTE DISPOSAL FACILITY

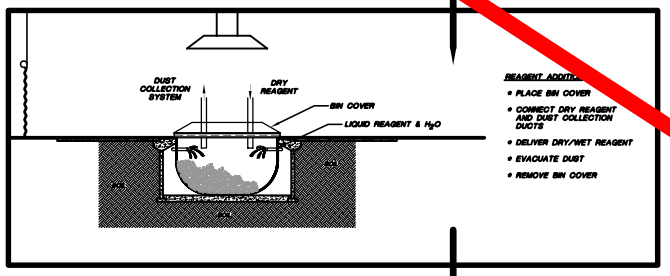
DRAWING TITLE:
STABILIZATION UNIT GENERAL ARRANGEMENT

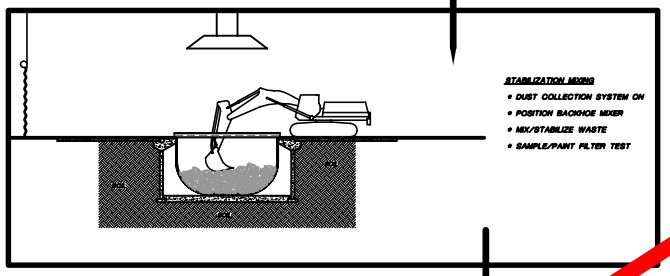
TerraMatrix
MONTGOMERY WATSON
Mining Group

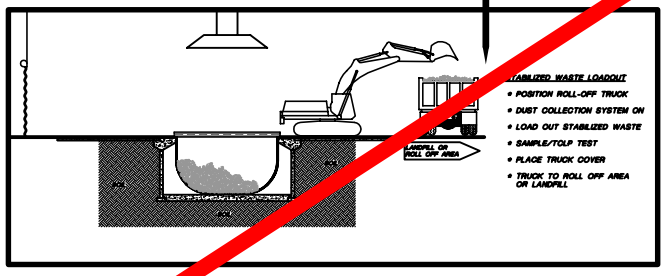
Sheet ___ of ___ Sheets
SCALE: As Shown
DRAWING No. 36

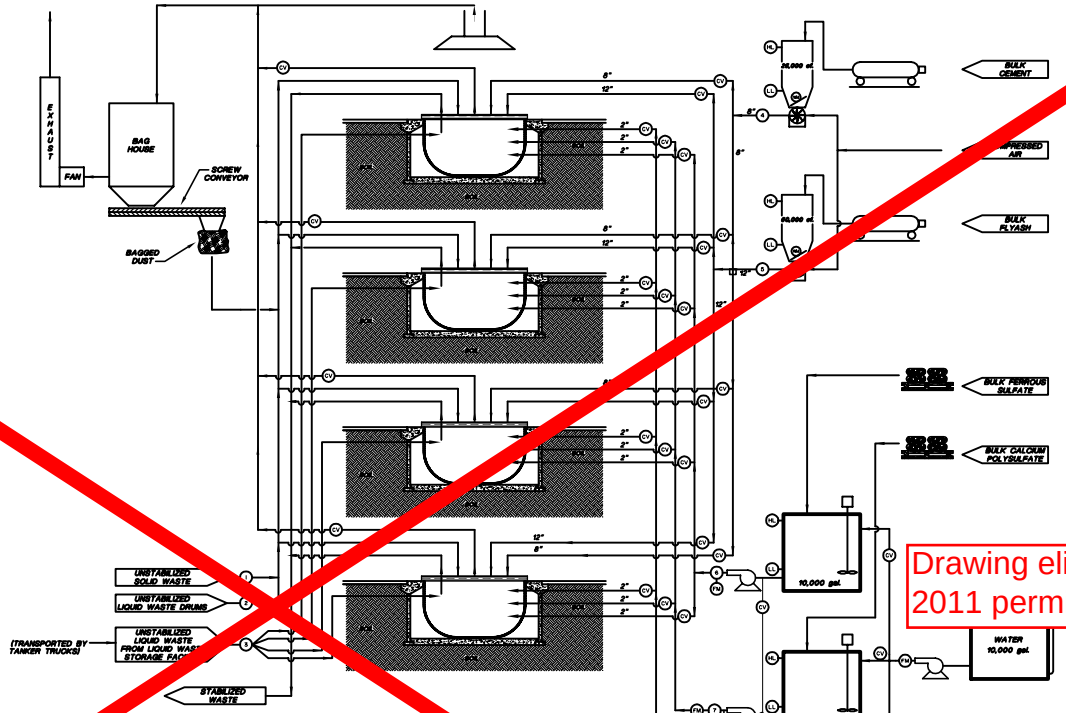
AutoCAD FILE: CONCSTAB.DWG PROJECT NUMBER: 603-0200











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

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) 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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

Not For Construction

3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

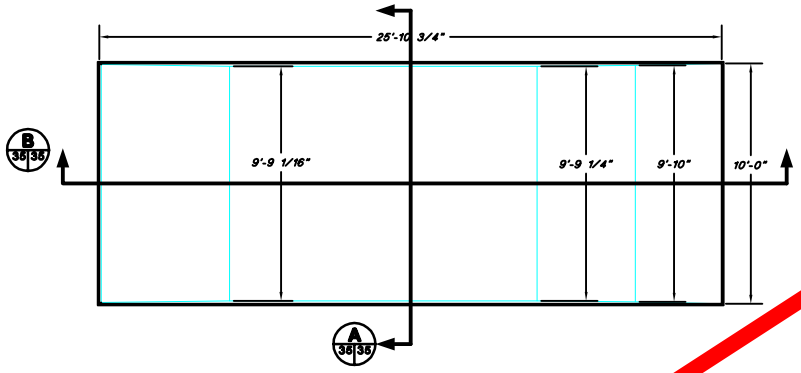
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
STABILIZATION UNIT WASTE FLOW DIAGRAM

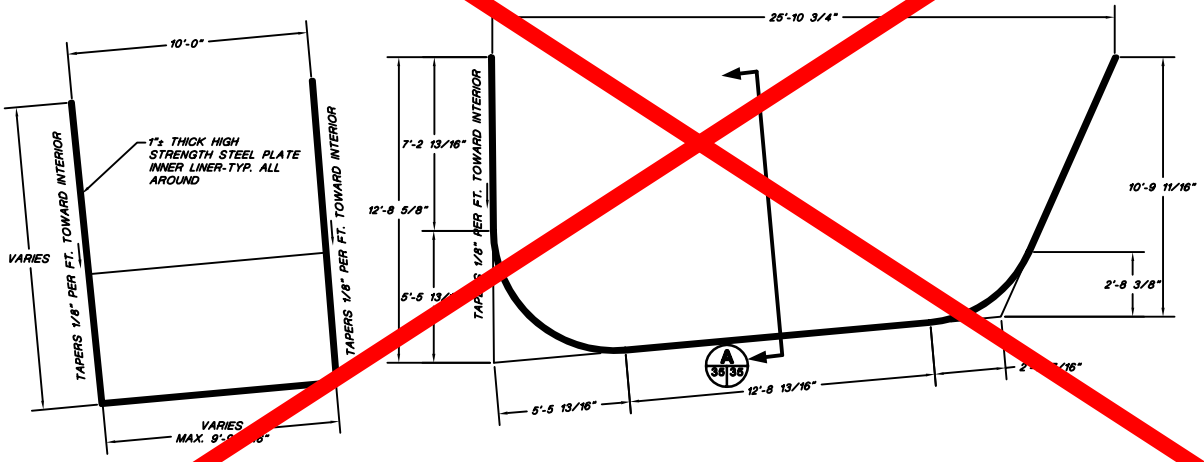
TerraMatrix MONTGOMERY WATSON Mining Group

Sheet __ of 7 Sheets
SCALE: As Shown
DRAWING No. 3

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



PLAN VIEW - INNER LINER



A 36|36 CROSS SECTION - INNER LINER

B 36|36 LONGITUDINAL SECTION - INNER LINER

Drawing eliminated for 2011 permit renewal.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

Not For Construction

SCALE 4' 0 2' 4' 8'

2	October 2000 Revision	10/1/00	J.Pellicer	K.Conrath	P.Corser
1	NOVEMBER 1999 REVISION	10/29/99	J.Pellicer	T.Smith	P.Corser
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	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

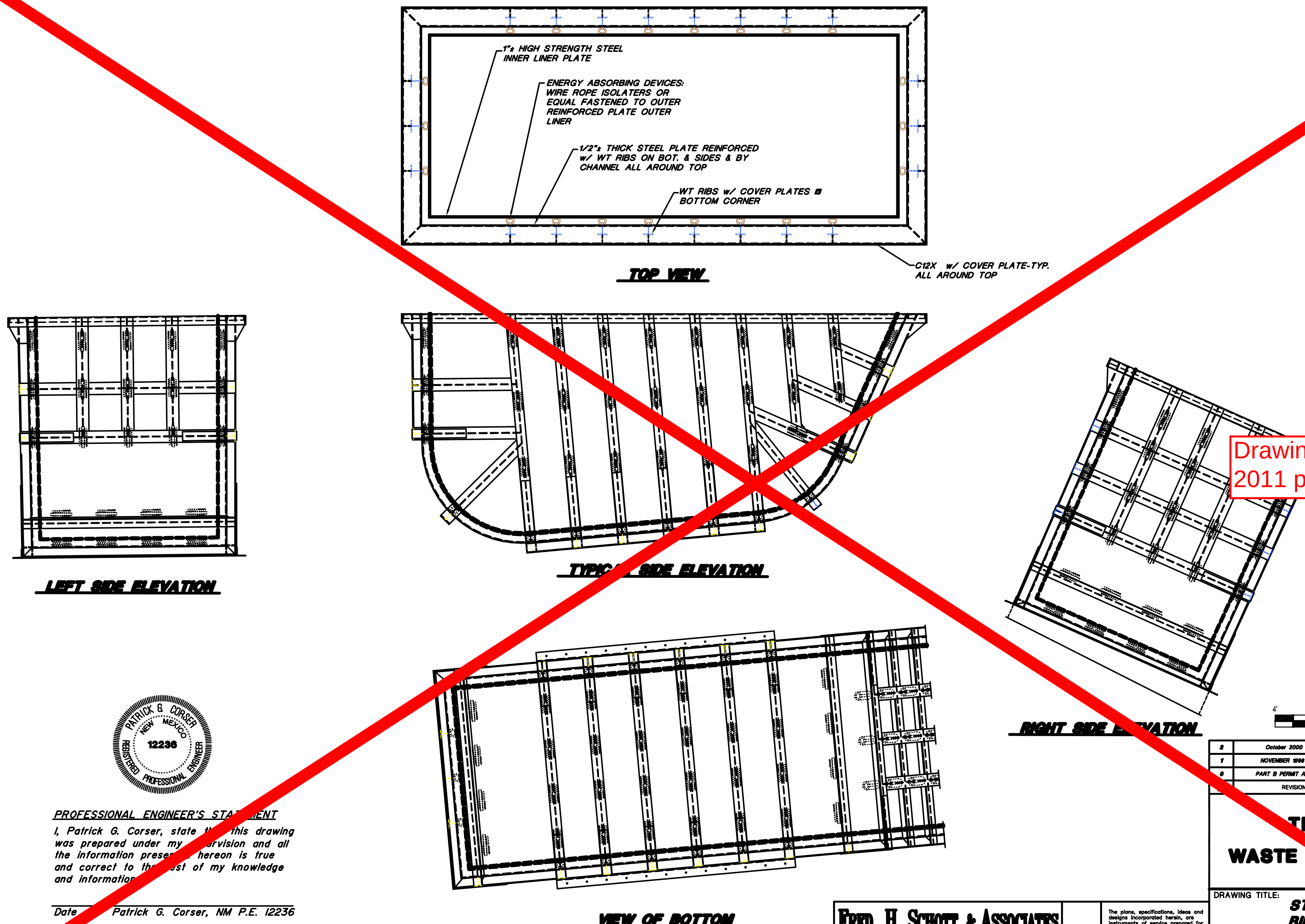
DRAWING TITLE: STABILIZATION UNIT BIN DESIGN

FRED H. SCHOTT & ASSOCIATES
CIVIL and STRUCTURAL ENGINEERING • LAND PLANNING & DRAINAGE DESIGN
200 Suburban Road, Suite A San Luis Obispo, CA 93401
(805) 544-1230 FAX (805) 544-3864

TerraMatrix MONTGOMERY WATSON Mining Group

Sheet 1 of 1 Sheets
SCALE: As Shown
DRAWING No. 3

AutoCAD FILE: GM-BIN1.DWG PROJECT NUMBER: 602-0300



PROFESSIONAL ENGINEER'S STATEMENT

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

Not For Construction

PROJECT NUMBER: 602-0200

AutoCAD FILE: GM-BIN2.DWG

SCALE
4' 0 2' 4' 6'

2	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK

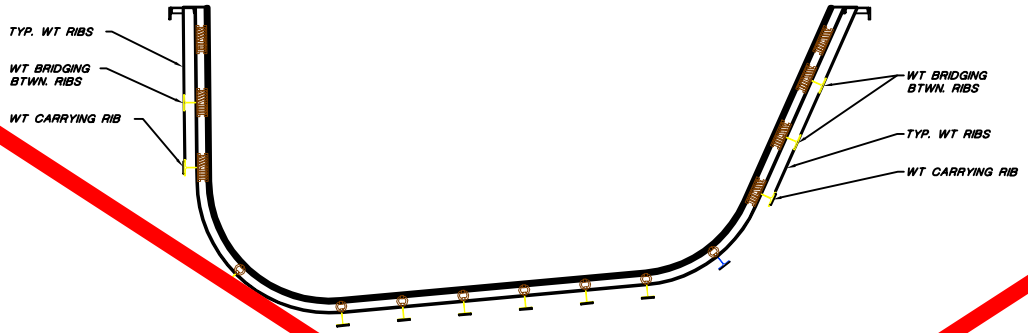
WASTE DISPOSAL FACILITY

DRAWING TITLE:
STABILIZATION UNIT BIN DESIGN DETAILS

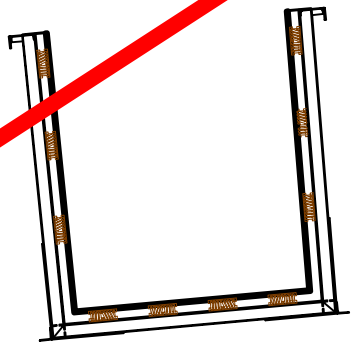
FRED H. SCHOTT & ASSOCIATES
CIVIL and STRUCTURAL ENGINEERING • LAND PLANNING & BUILDING DESIGN
[illegible]

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 of 2 Sheets
SCALE: As Shown
DRAWING No. 3[illegible]



LONGITUDINAL SECTION - INNER/OUTER LINERS & FRAMING



LATTERAL SECTION - INNER/OUTER LINERS & FRAMING

Drawing eliminated for 2011 permit renewal.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

SCALE

4' 0 2' 4' 8'

2	October 2000 Revision	10/1/00	J.Pellicer	K.Conrath	P.Corser
1	NOVEMBER 1998 REVISION	10/29/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

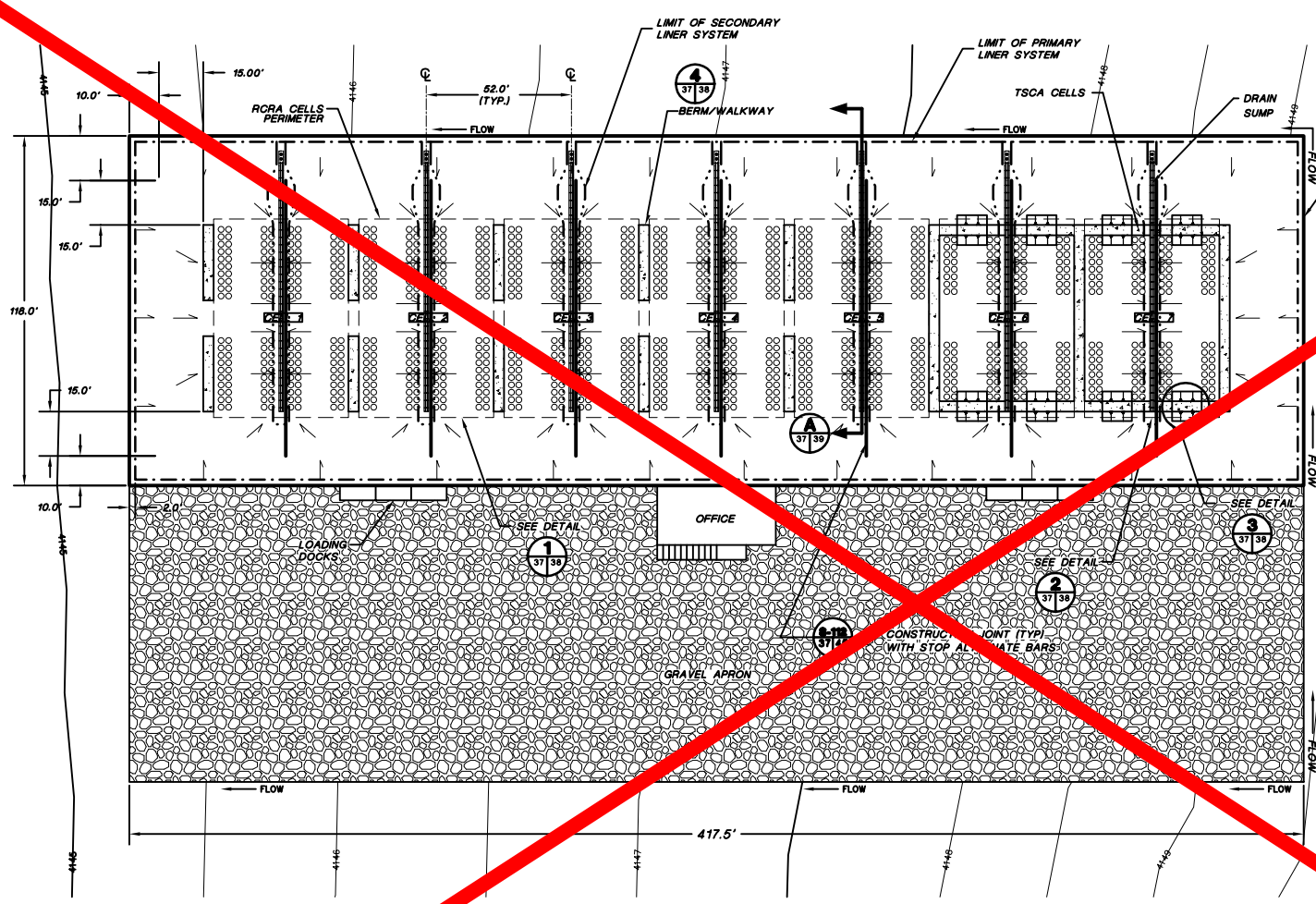
DRAWING TITLE:
STABILIZATION UNIT BIN DESIGN DETAILS

FRED H. SCHOTT & ASSOCIATES
CIVIL and STRUCTURAL ENGINEERS • LAND PLANNING & DRAWING REVIEW
200 Suburban Road, Suite A San Luis Obispo, CA 93401
(805) 544-1200 FAX (805) 544-3864

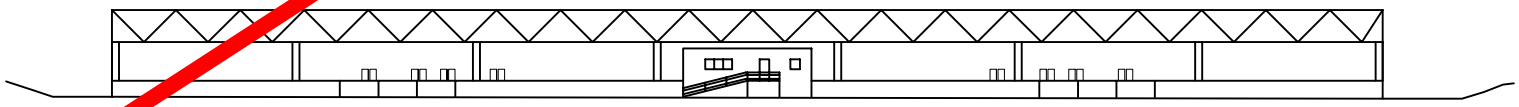
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 of 2 Sheets
SCALE: As Shown
DRAWING No. 3C

AutoCAD FILE: GM-BIN3.DWG PROJECT NUMBER: 602-0200



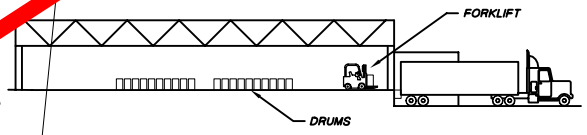
TYPICAL DRUM FLOOR LAYOUT



TYPICAL FRONT ELEVATION

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.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

Not For Construction

3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK

WASTE DISPOSAL FACILITY

DRAWING TITLE:

DRUM HANDLING UNIT GENERAL ARRANGEMENT

TerraMatrix MONTGOMERY WATSON Mining Group

Sheet ___ of 7 Sheets

SCALE: As Shown

DRAWING No. 3

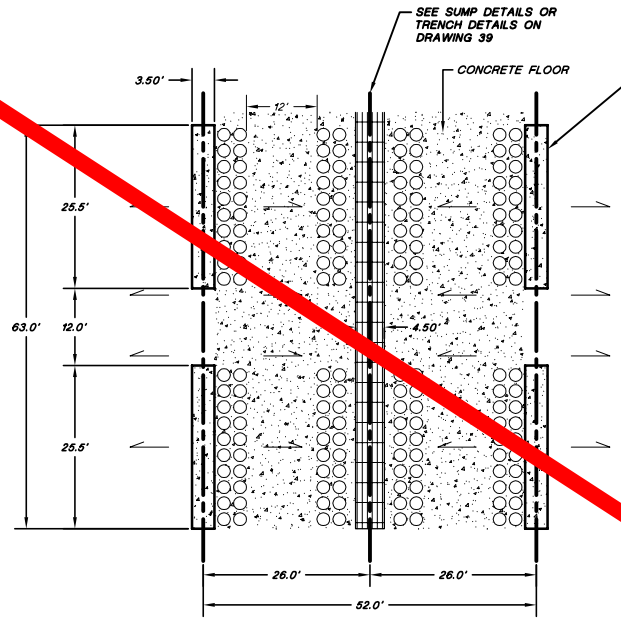
NOTES:

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

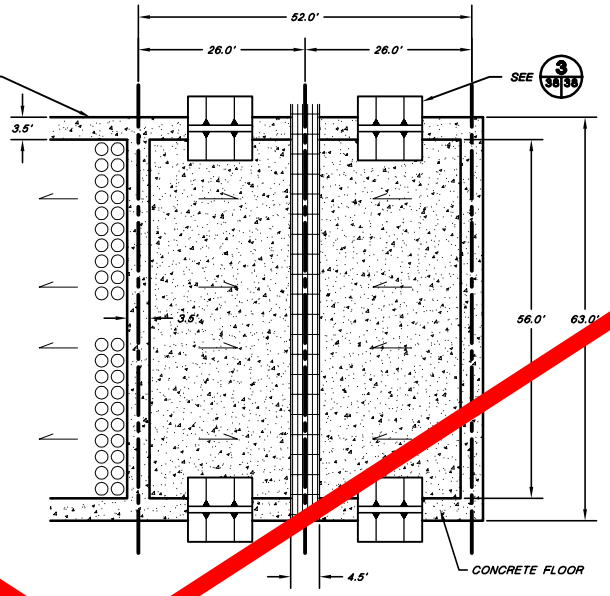
2) EACH CELL SHALL BE LABELED ACCORDING TO THE TYPE OF WASTE BEING STORED.

3) INCOMPATIBLE WASTES WILL BE STORED IN SEPARATE CELLS.

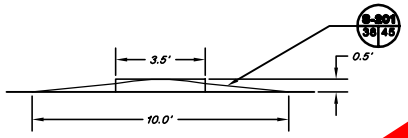
AutoCAD FILE: GM-DHE.DWG PROJECT NUMBER: 602-0200

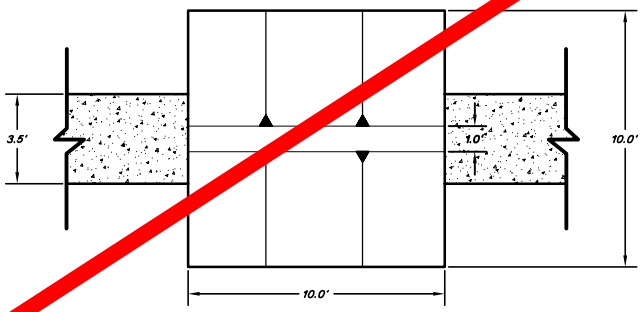


1 37|36 **TYPICAL RCRA CELL DETAIL**
Not To Scale

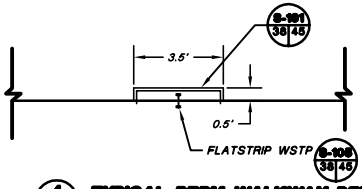


2 37|36 **TYPICAL TSCA CELL DETAIL**
Not To Scale





3 37|36 **TYPICAL TSCA CELL ACCESS RAMP DETAIL**
Not To Scale



4 37|38 **TYPICAL BERM WALKWAY DETAIL**
Not To Scale

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

LEGEND

DRAINAGE FLOW DIRECTION ON TOP OF CONCRETE

CENTERLINE

DRUMS

SCALE

Drawing eliminated for 2011 permit renewal.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

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3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
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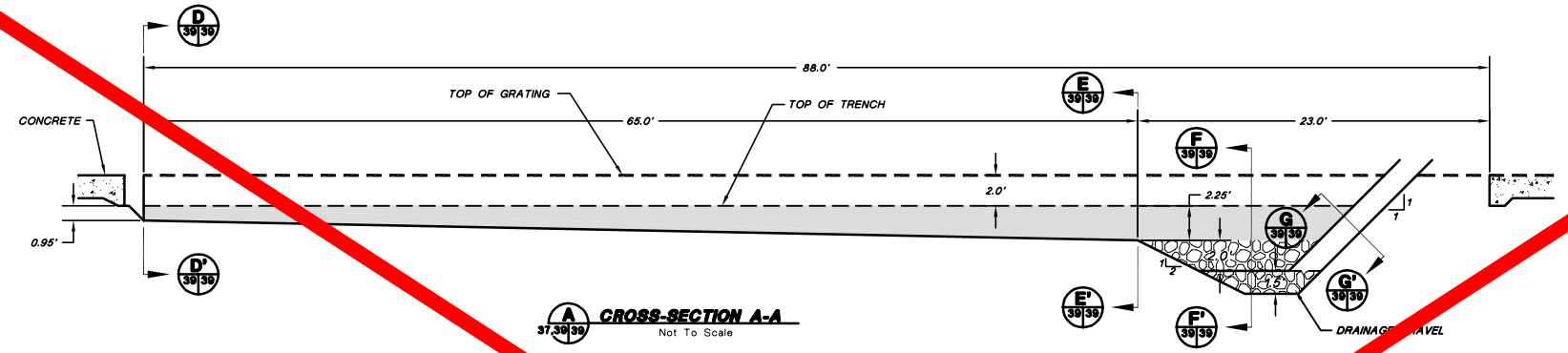
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
DRUM HANDLING UNIT DETAILS

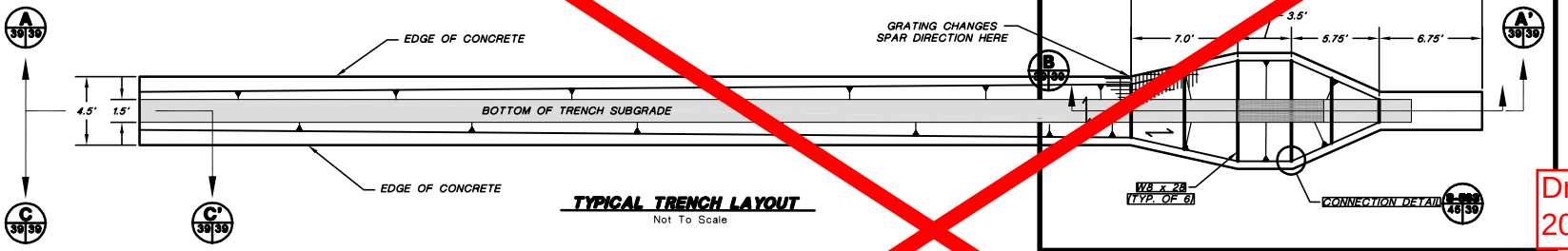
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet __ of __ Sheets
SCALE: As Shown
DRAWING No. 36

AutoCAD FILE: GM-DHD.DWG PROJECT NUMBER: 603-0300

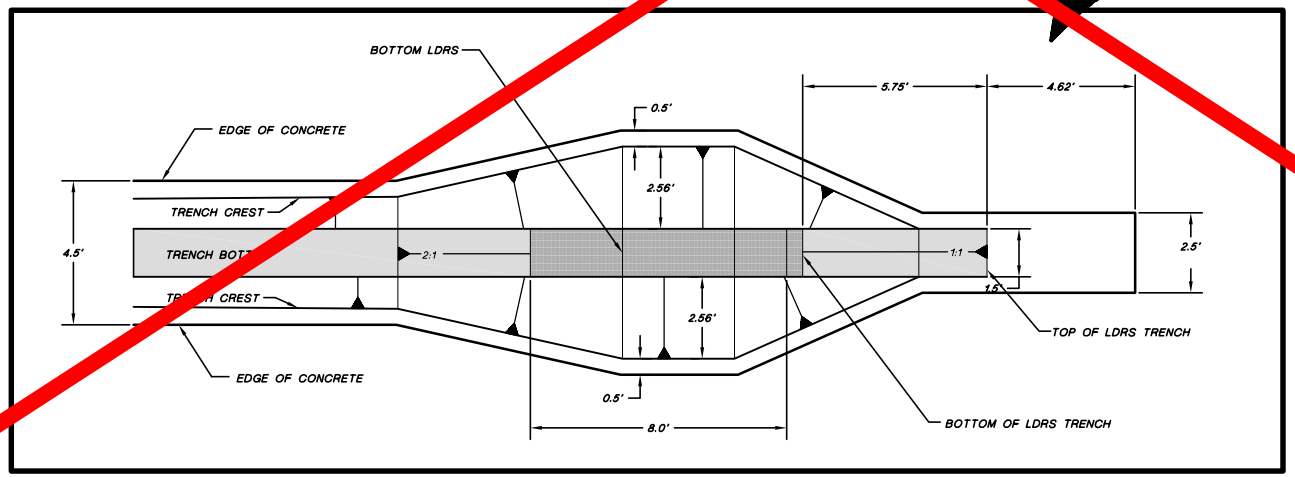


CROSS-SECTION A-A
Not To Scale



TYPICAL TRENCH LAYOUT
Not To Scale

Drawing eliminated for 2011 permit renewal.



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

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	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

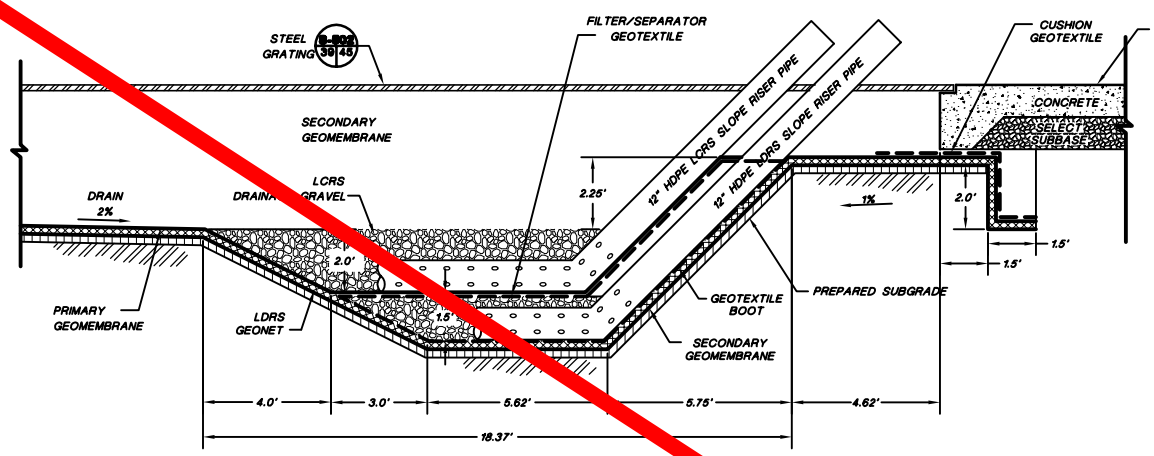
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
DRUM HANDLING UNIT SUMP DETAILS

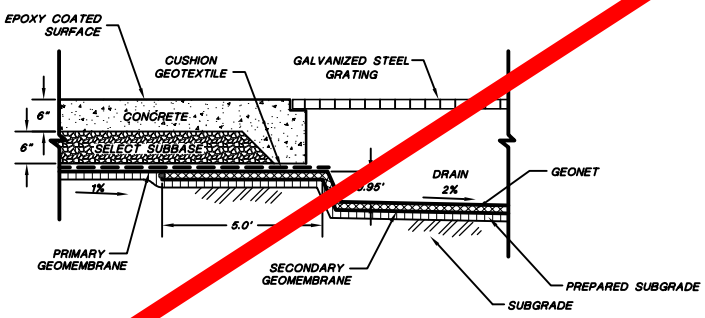
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 Sheets
SCALE: As Shown
DRAWING No. 3

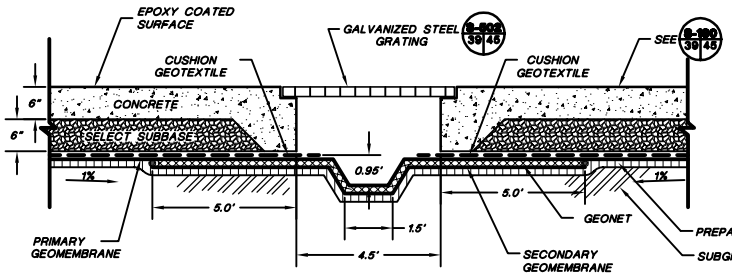
AutoCAD FILE: TRN-07LB.DWG PROJECT NUMBER: 603-0200



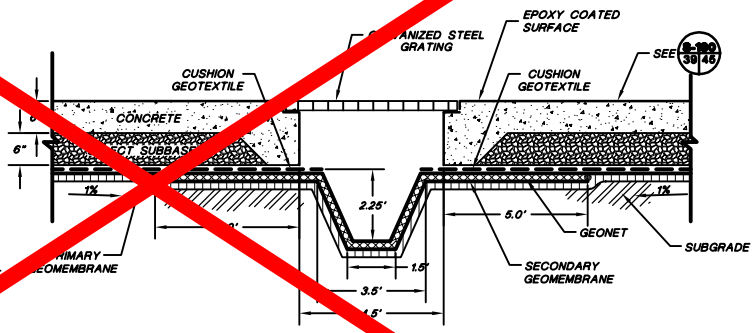
B 39|39 **CROSS-SECTION B-B'**
Not To Scale



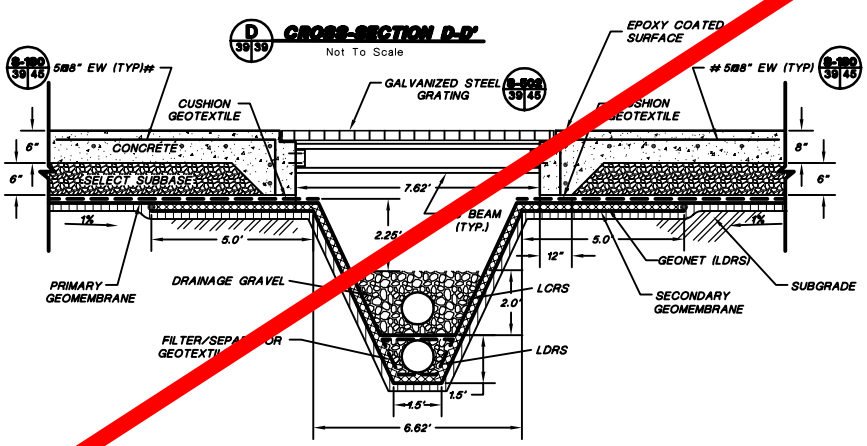
C 39|39 **CROSS-SECTION C-C'**
Not To Scale



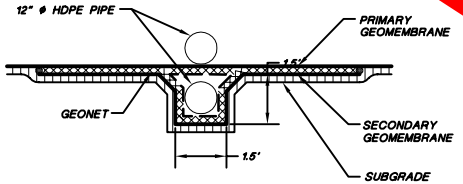
D 39|39 **CROSS-SECTION D-D'**
Not To Scale



E 39|39 **CROSS-SECTION E-E'**
Not To Scale



F 39|39 **CROSS-SECTION F-F'**
Not To Scale



G 39|39 **CROSS-SECTION G-G'**
Not To Scale

Drawing eliminated for 2011 permit renewal.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

Not For Construction

3	October 2000 Revision	10/4/00	J.Pelliser	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pelliser	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

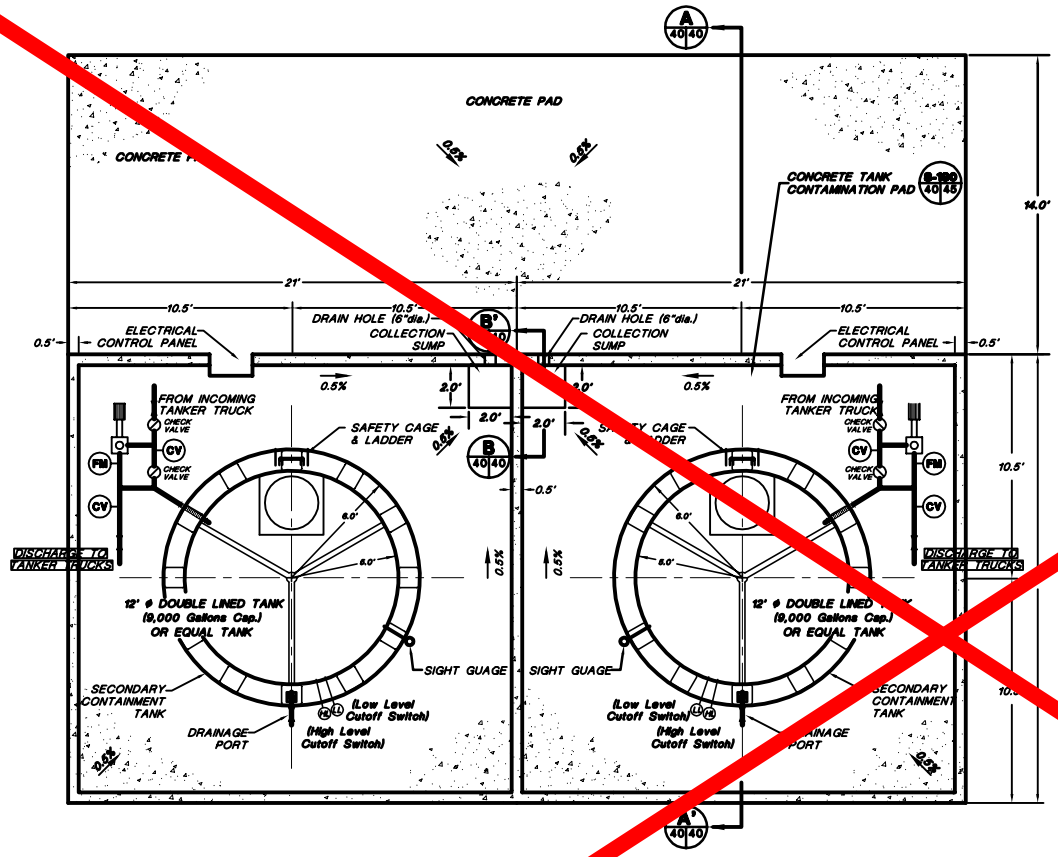
DRAWING TITLE:
DRUM HANDLING UNIT SUMP DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

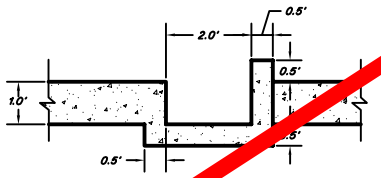
Sheet 2 Sheets
SCALE: As Shown
DRAWING No. 3

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

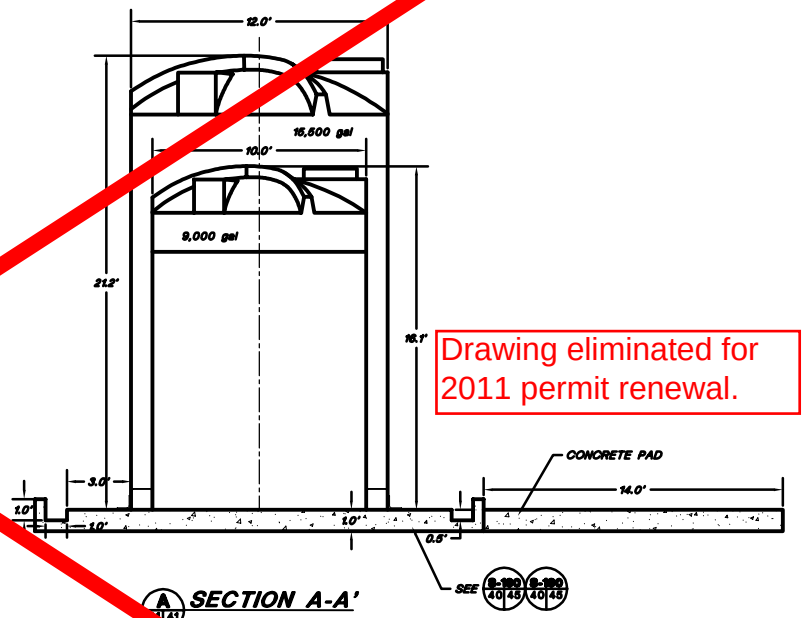
AutoCAD FILE: TRI-07138.DWG PROJECT NUMBER: 603-0200



LIQUID WASTE RECEIVING & STORAGE AREA



SECTION B-B'



SECTION A-A'

Drawing eliminated for 2011 permit renewal.

NOTES:

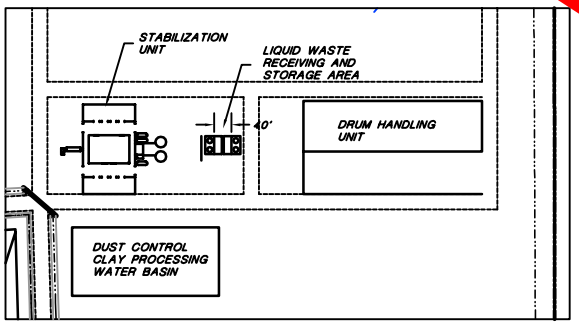
1. FOR GENERAL NOTES AND LEGEND INFORMATION SEE DRAWING No. 2, "INDEX, LEGEND AND GENERAL NOTES".
2. FOR CONCRETE DETAILS SEE DRAWING 45.
3. TWO TANKS WILL BE CONSTRUCTED INITIALLY TO SERVICE SITE EXCAVATIONS. TWO ADDITIONAL TANKS MAY BE ADDED AT A LATER DATE TO ACCOMODATE ANY INCREASES IN LIQUID WASTE VOLUME.
4. PIPING WILL BE INSTALLED ACCORDING TO API PUBLICATION 1615 (NOVEMBER 1979) OR ANSI STANDARD B 31.2 AND ANSI STANDARD B 31.4.
5. PIPING LOCATION WILL BE DETERMINED IN THE FIELD.
6. DETAILS OF THE DOUBLE LINED TANKS ARE PROVIDED IN SHEET 2.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonson	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

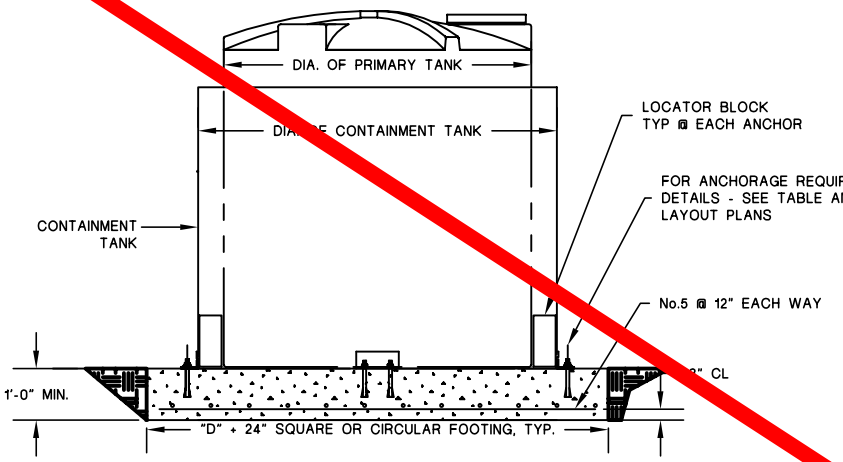
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
LIQUID WASTE RECEIVING AND STORAGE UNIT LAYOUT

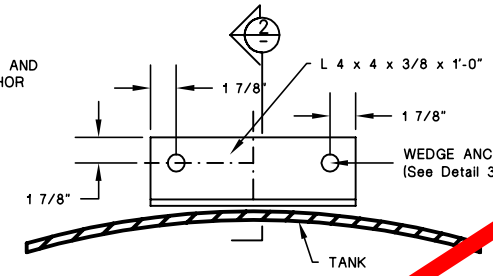
TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet ___ of 2 Sheets
SCALE: See Scale Bar
DRAWING No. 44

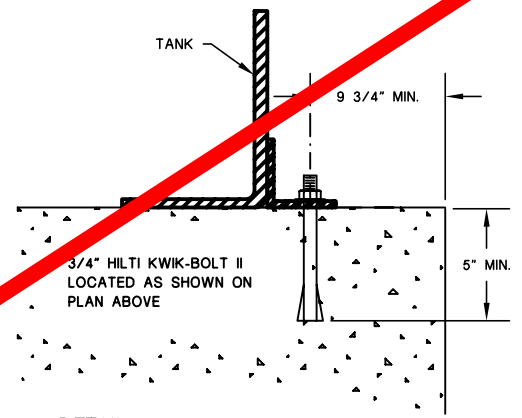
AutoCAD FILE: GLF-LWRSF.DWG PROJECT NUMBER: 602-0200



1 ELEVATION



S2 ANCHOR TYPE S2



1 DETAIL

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

GENERAL NOTES

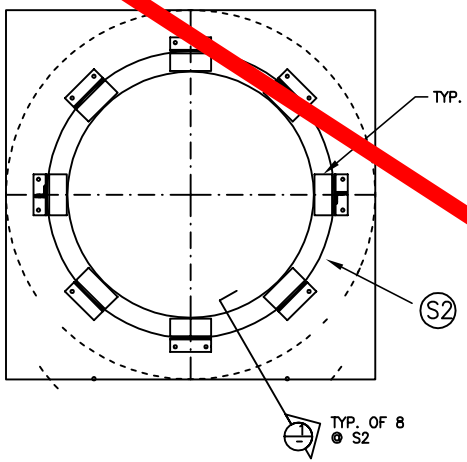
1. TANK RESTRAINT ANCHORAGES, CABLES DESIGNED FOR SEISMIC AND WIND FORCES PER THE UNIFORM BUILDING CODE, 1997 EDITION.
2. MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE UBC AND THE FOLLOWING CRITERIA:

   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 "WEDGE ANKR-TITE". INSTALL PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
3. REMOVE ALL SHARP EDGES THAT MAY DAMAGE OR CAUSE WEAR TO CABLES.
4. ALL GALLONAGES AND DIMENSIONS ARE NOMINAL.



C ANCHOR LAYOUT 'C'

Drawing eliminated for 2011 permit renewal.

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Matthisen	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	E.Simonsen	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK

WASTE DISPOSAL FACILITY

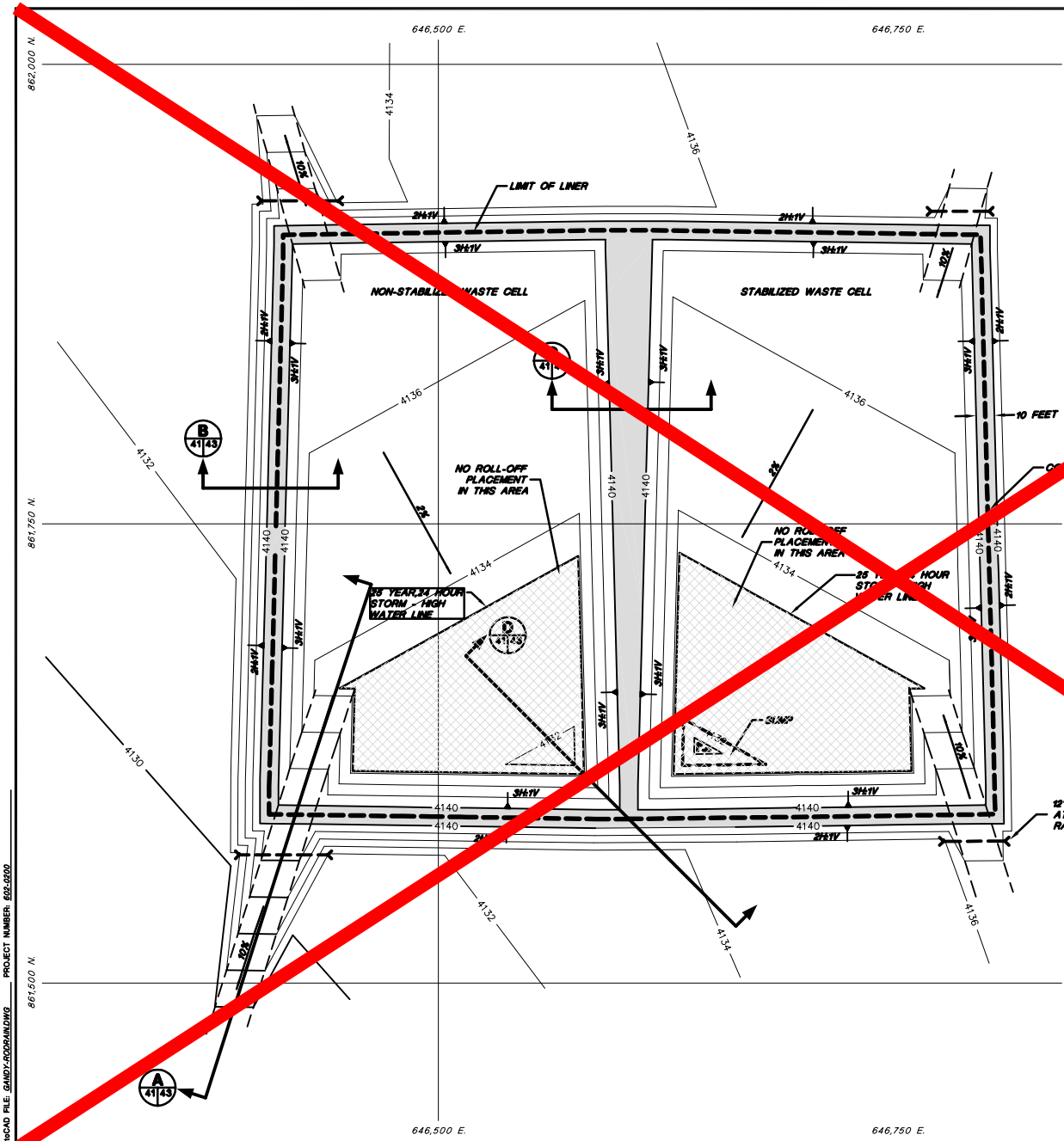
DRAWING TITLE:

LIQUID WASTE RECEIVING AND STORAGE UNIT LAYOUT

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 of 2 Sheets
SCALE: See Scale Bar
DRAWING No. 4C

AutoCAD FILE: GLF-LWRSF_sheet2 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.

SCALE
30' 0 30' 60'
CONTOUR INTERVAL 2 FT.

Not For Construction

3	October 2000 Revision	10/4/00	J.Pelicer	K.Conrats	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.SMITH	P.CORSER
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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

TRIASSIC PARK
WASTE DISPOSAL FACILITY

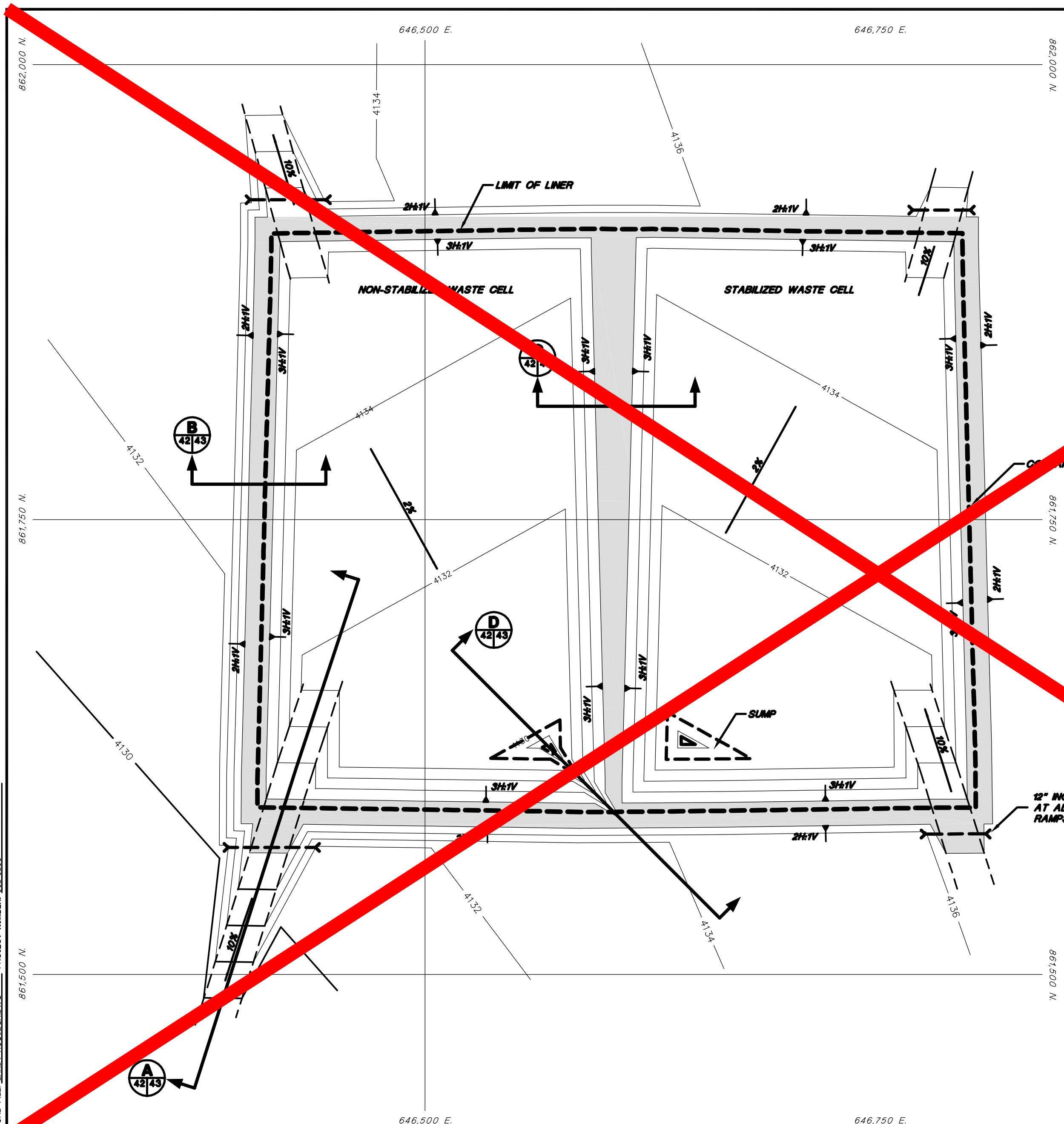
DRAWING TITLE:
TRUCK ROLL-OFF AREA
DRAINAGE SURFACE CONTOURS

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet ___ of ___ Sheets
SCALE: AS NOTED
DRAWING No. 4

AutoCAD FILE: GAMDY-RODRAINDWG PROJECT NUMBER: 602-0200

Drawing eliminated for 2011 permit renewal.



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

SCALE
30' 0 30' 60'
CONTOUR INTERVAL 2 FT.

Not For Construction

3	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	09/01/99	P.Corser	T.Smith	P.Corser
1	NOVEMBER 1998 REVISION	11/01/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.SMITH	P.CORSER
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

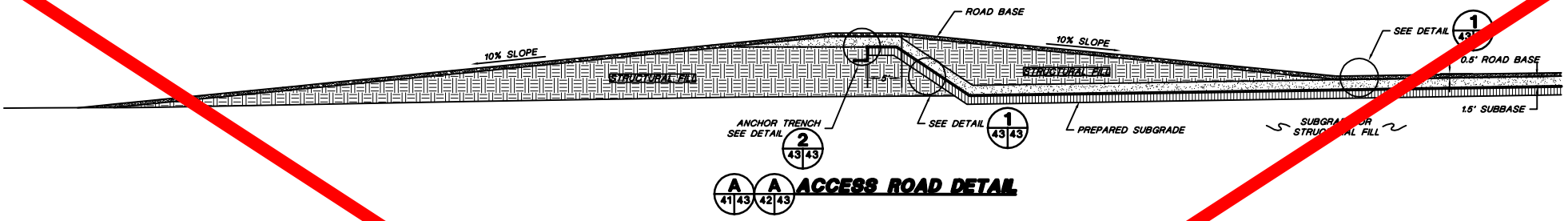
TRIASSIC PARK WASTE DISPOSAL FACILITY

DRAWING TITLE:
TRUCK ROLL-OFF AREA SUBGRADE CONTOURS

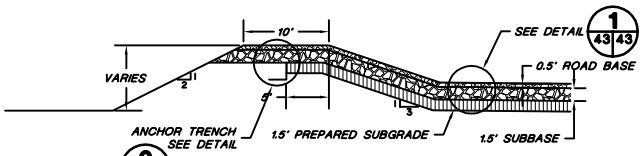
TerraMatrix MONTGOMERY WATSON Mining Group

Sheet 1 Sheets
SCALE: AS NOTED
DRAWING No.

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



A A 41 43 42 43 ACCESS ROAD DETAIL



2 43 43 B B 41 43 42 43 BERM DETAIL

SCALE
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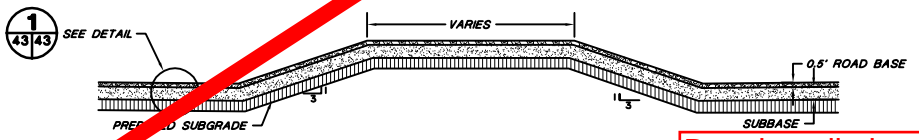
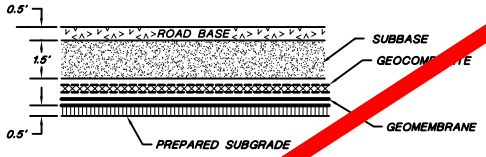
Feet



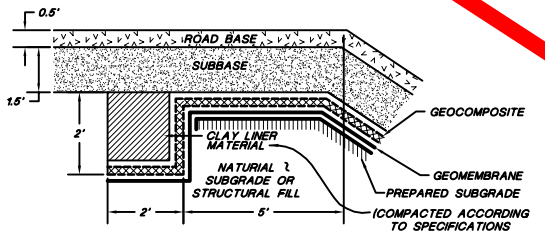
C C 41 43 42 43 INNER FACILITY BERM DET

Drawing eliminated for 2011 permit renewal.

SCALE
0 7.5' 15'
Feet



FLOOR AND SLOPE NON-STABILIZED WASTE CELL
1 43 43 LINER & DRAINAGE CROSS-SECTION
NOT TO SCALE



2 43 43 ANCHOR TRENCH DETAIL
NOT TO SCALE

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

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*

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

Not For Construction

2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	11/01/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

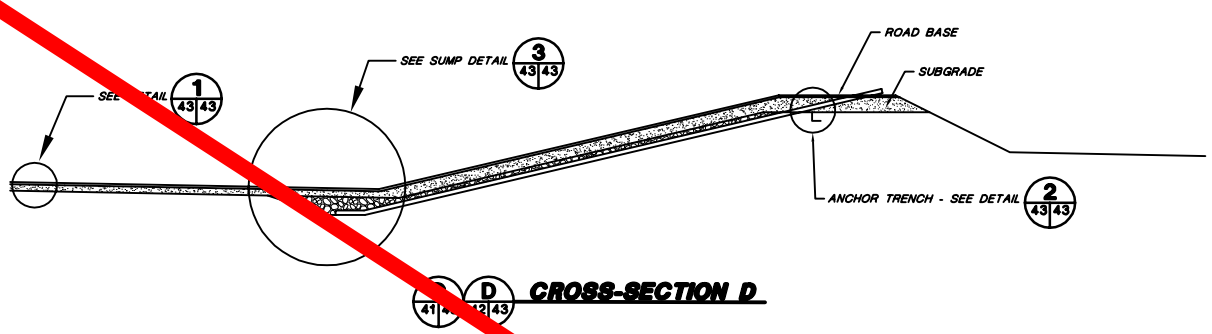
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
TRUCK ROLL-OFF AREA LINER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

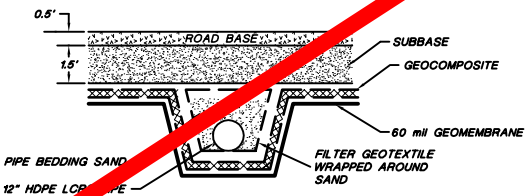
Sheet 2 Sheets
SCALE: As Shown
DRAWING No. 4

AutoCAD FILE: ROLLOFFDT.DWG PROJECT NUMBER: 603-0200



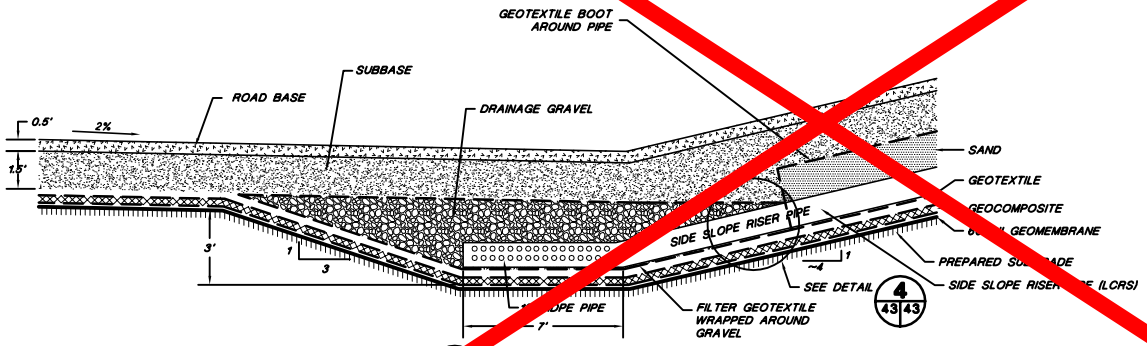
CROSS-SECTION D

SCALE
7.5' 15'



PIPE TRENCH DETAIL

NOT TO SCALE



SUMP DETAIL

SCALE
0 2.5' 5'
Feet

Drawing eliminated for 2011 permit renewal.

Not For Construction

3	October 2000 Revision	10/4/00	J.Pelicer	K.Conrath	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	11/01/98	J.Pelicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	T.Smith	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

TRIASSIC PARK
WASTE DISPOSAL FACILITY

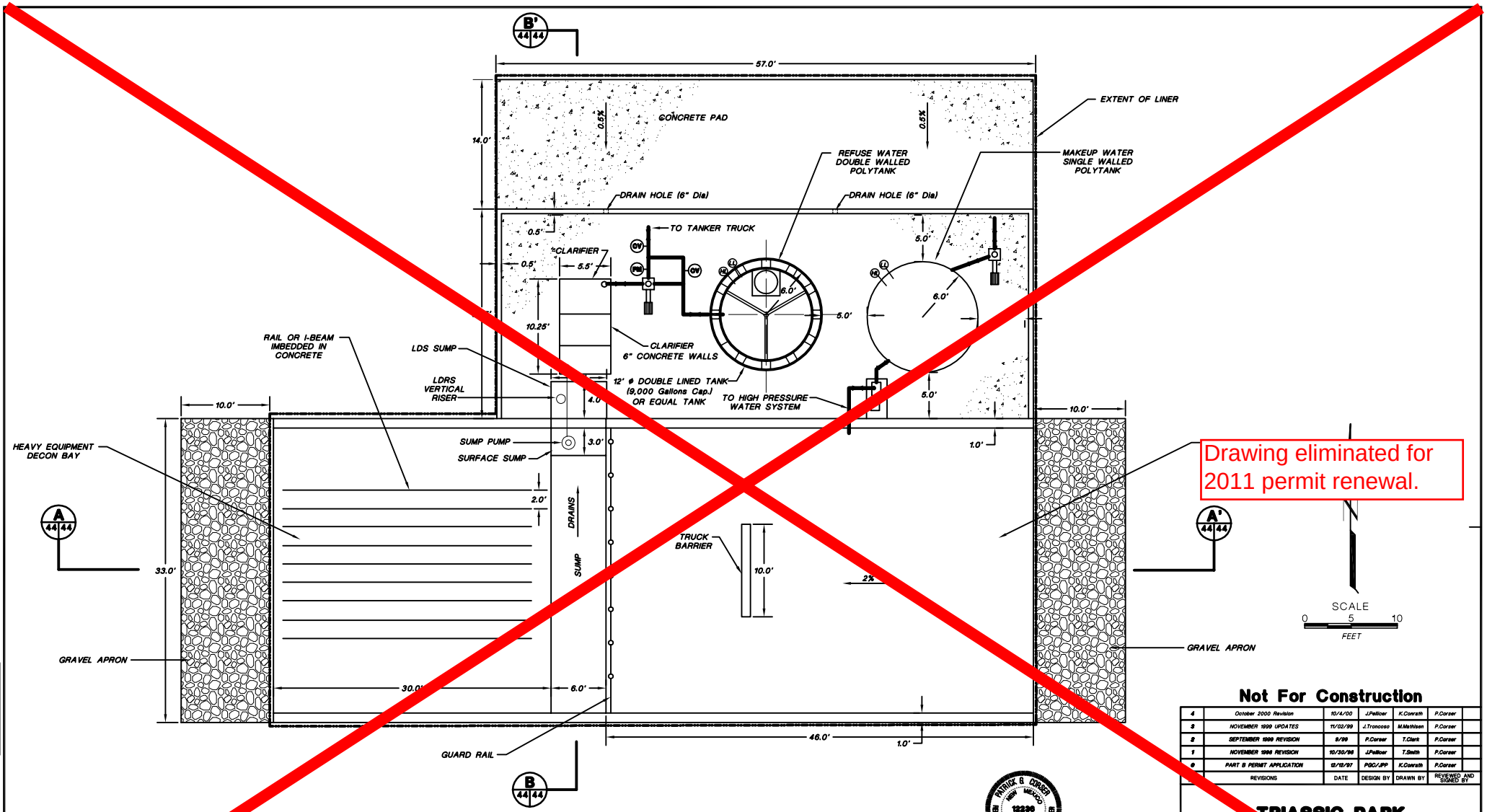
DRAWING TITLE:
TRUCK ROLL-OFF AREA LINER DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 Sheets
SCALE: As Shown
DRAWING No. 4

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

AutoCAD FILE: ROLLOFFD12.DWG PROJECT NUMBER: 602-0200



Drawing eliminated for 2011 permit renewal.

Not For Construction

4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
2	SEPTEMBER 1999 REVISION	9/99	P.Corser	T.Clark	P.Corser
1	NOVEMBER 1998 REVISION	10/30/98	J.Pellicer	T.Smith	P.Corser
0	PART B PERMIT APPLICATION	12/15/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

TRIASSIC PARK
WASTE DISPOSAL FACILITY

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

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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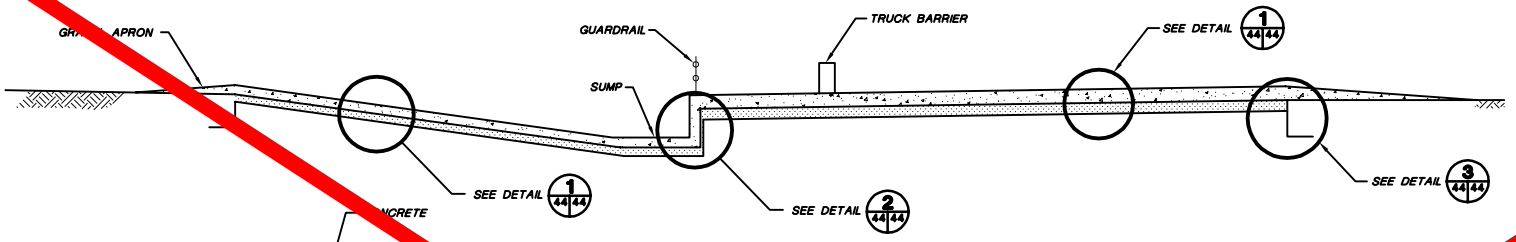
Date — Patrick G. Corser, NM P.E. 12236

TerraMatrix MONTGOMERY WATSON Mining Group

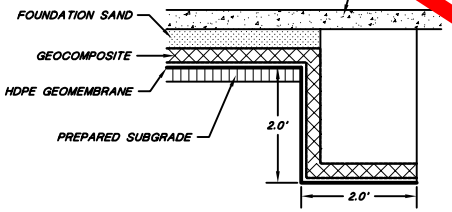
Sheet ___ 2 Sheets
SCALE: Not to Scale
DRAWING No. 44

AutoCAD FILE: TRKWASHLOWG PROJECT NUMBER: 603-0200



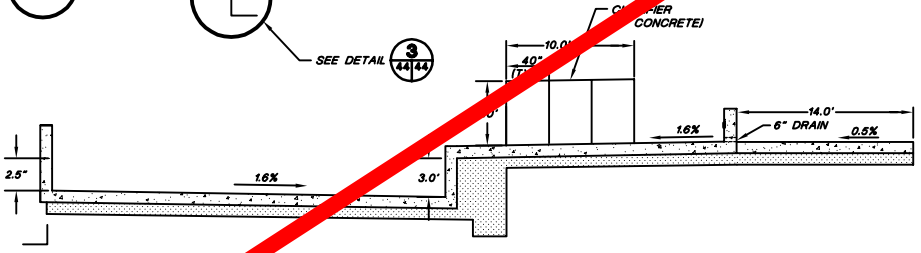
A 44/44 TRUCK WASH CROSS-SECTION

SCALE
0 5 10
FEET



3 44/44 TRUCK WASH ANCHOR TRENCH DETAIL

NOT TO SCALE



B 44/44 TRUCK WASH SUMP CROSS-SECTION

SCALE
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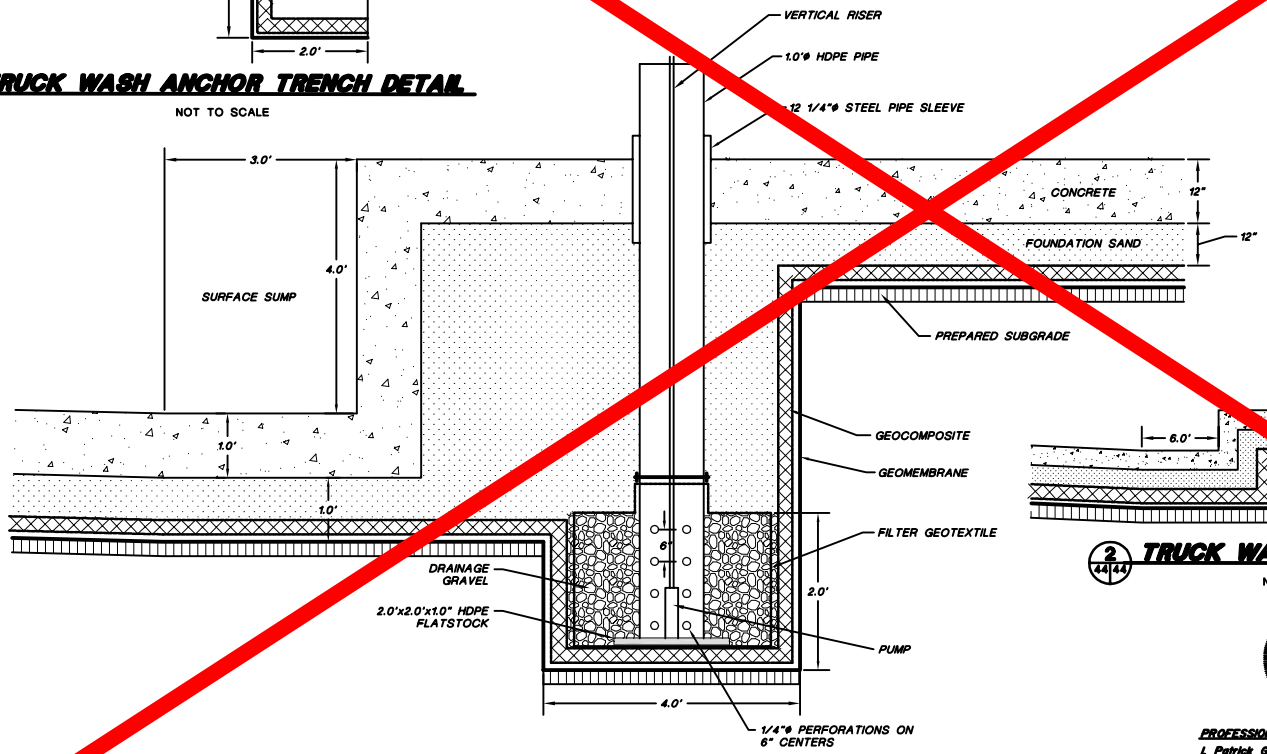
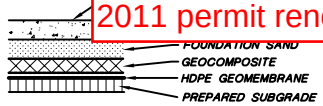
FEET



TRUCK WASH LEAK DETECTION SUMP

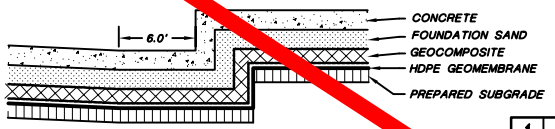
SCALE
0 1 2
FEET

Drawing eliminated for 2011 permit renewal.



1 44/44 TRUCK WASH LINER DETAIL

NOT TO SCALE



2 44/44 TRUCK WASH SUMP DETAIL

NOT TO SCALE

Not For Construction

4	October 2000 Revision	10/4/00	J.Pellicer	K.Conrath	P.Corser
3	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	K.Conrath	P.Corser
	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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

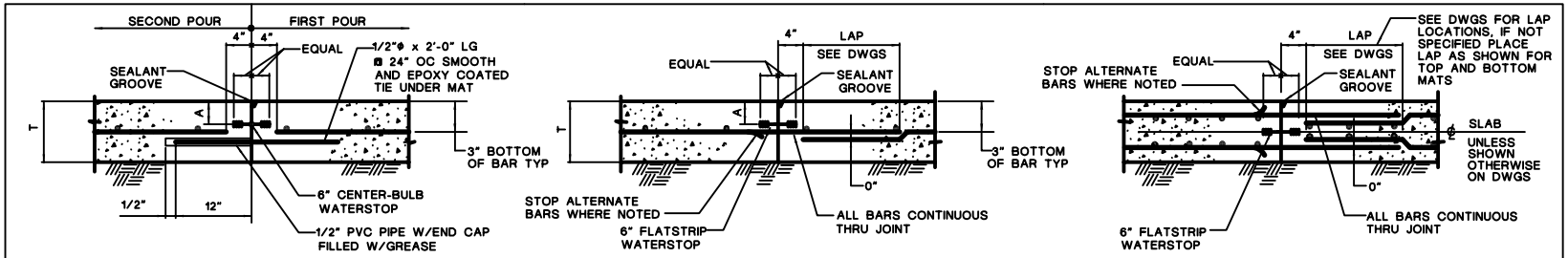
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
TRUCK WASH LAYOUT AND DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 2 of 2 Sheets
SCALE: Not to Scale
DRAWING No. 4

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



SINGLE MAT REINF - SLEEVE - TYPE JOINT

(TYP CONSTRUCTION JOINT UNLESS OTHERWISE NOTED)

S-110 / 45 **WITH WATERSTOP AND SEALANT GROOVE**

S-111 / 45 **NO WATERSTOP OR SEALANT GROOVE**

SINGLE MAT REINF - CONTINUOUS THRU JOINT

(ONLY WHEN SPECIFIED ON DRAWINGS)

S-112 / 45 **WITH WATERSTOP AND SEALANT GROOVE**

S-113 / 45 **NO WATERSTOP OR SEALANT GROOVE**

DOUBLE MAT REINF

S-114 / 45 **WITH WATERSTOP AND SEALANT GROOVE**

S-115 / 45 **NO WATERSTOP OR SEALANT GROOVE**

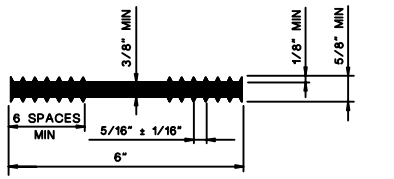
T	A
6"	2"
7"	2 1/2"
8"	2 1/2"

NOTES:

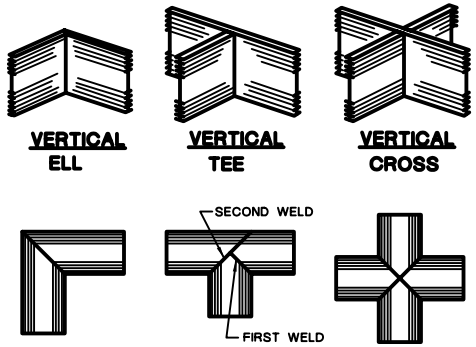
1. IN ALL CONSTRUCTION JOINTS WITH WATERSTOPS, APPLY 2 COATS OF BOND BREAKER TO FACE OF JOINT, AVOID COATING WATERSTOP (AND SEALANT GROOVE WHERE USED)
2. WATERSTOPS AND SEALANT GROOVES TO BE PROVIDED IN ALL WATER RETAINING SLABS, SEE DRAWINGS, FOR OTHER LOCATIONS WHERE THEY MAY BE REQUIRED
3. STAGGER SPLICES UNLESS NOTED OTHERWISE

SLAB-ON-GRADE CONSTRUCTION JOINTS

REV 011696



S-105 / 45 **6" FLATSTRIP WATERSTOP**



S-106 / 45 **PREFABRICATED WATERSTOPS JOINTS**

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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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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

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REV. No.	REVISIONS	DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
1	October 2000 Revision	10/1/00	J.Pelton	K.Conrath	P.Corser
0	PART B PERMIT APPLICATION	12/12/01	PGC/JPP	JBEVER	P.CORSER

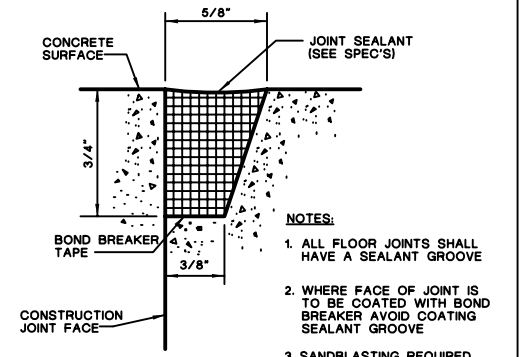
TRIASSIC PARK
WASTE DISPOSAL FACILITY

DRAWING TITLE:
CONCRETE AND GRATING DETAILS

TerraMatrix
MONTGOMERY WATSON
Mining Group

Sheet 1 Of 5 Sheets
SCALE: AS NOTED
DRAWING No. 45

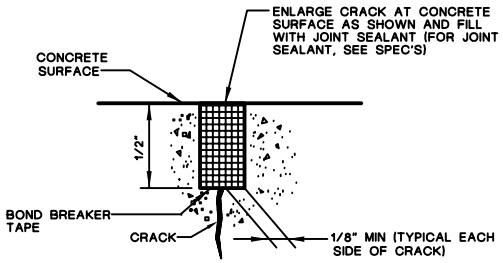
AutoCAD FILE: CONC-DTLS-MJDWG PROJECT NUMBER: 602-0200



NOTES:

1. ALL FLOOR JOINTS SHALL HAVE A SEALANT GROOVE
2. WHERE FACE OF JOINT IS TO BE COATED WITH BOND BREAKER AVOID COATING SEALANT GROOVE
3. SANDBLASTING REQUIRED PRIOR TO APPLICATION OF PRIMER
4. USE BONDBREAKER TAPE ONLY ON SLIP DOWEL JOINTS

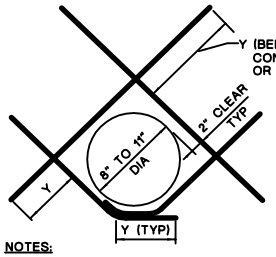
S-131 / 45 **SEALANT GROOVE**



NOTE:

PRIOR TO USE, STRUCTURES SHALL HAVE ALL CRACKS REPAIRED AS SHOWN IN THIS DETAIL

S-132 / 45 **CONCRETE CRACK REPAIR**

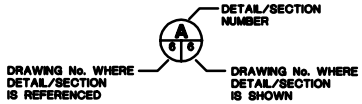


BAR SIZE	Y GRADE 60
No.4	15"
No.5	21"
No.6	24"
No.7	27"
No.8	36"
No.9	42"

NOTES:

1. CUT NORMAL REINFORCEMENT 2" CLEAR OF OPENING
2. DIAGONAL BARS TO BE PLACED:
   - A) AT CENTERLINE OF WALL OR SLAB WHERE ONE LAYER OF REINFORCEMENT IS PROVIDED
   - B) AT EACH FACE OF WALL OR SLAB WHERE TWO LAYERS OF REINFORCEMENT ARE PROVIDED
3. UNLESS OTHERWISE NOTED, SIZE OF DIAGONAL BARS SHALL BE THE SIZE OF THE LARGEST NORMAL REINFORCING BAR CUT
4. THIS DETAIL TO BE USED ONLY WHEN CALLED FOR ON THE DRAWINGS OR WHEN NO OTHER DETAIL IS SPECIFIED

S-142 / 45 **DIAGONAL REINFORCEMENT AT CIRCULAR OPENINGS (8" - 11" DIA)**



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1	October 2000 Revision	10/4/00	J.Pelton	K.Conrath	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	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

PATRICK G. CORSER NEW MEXICO 12236 REGISTERED PROFESSIONAL ENGINEER

PROFESSIONAL ENGINEER'S STATEMENT

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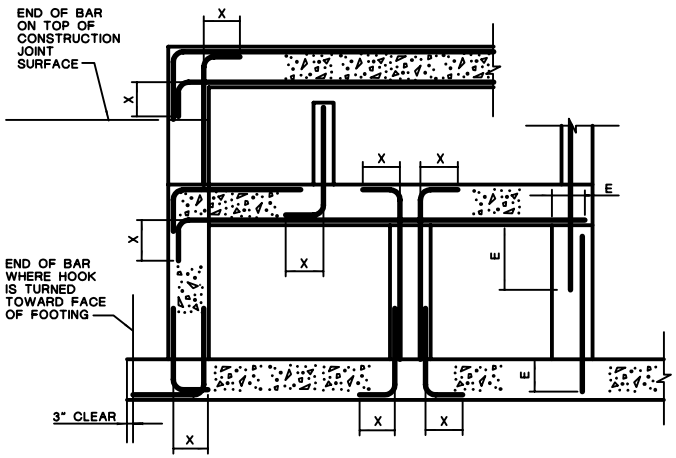
Date *Patrick G. Corser, NM P.E. 12236*

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

AutoCAD FILE: CONC-DTLS-BLDWG PROJECT NUMBER: 602-0800



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"	
No.10	22"	
No.11	24"	

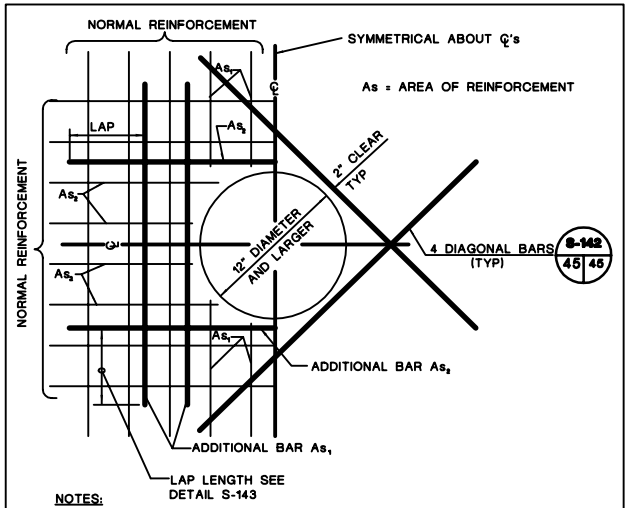
LENGTH (INCHES)						
REBAR SIZE	FOR 1" TO < 2" CONCRETE COVER		FOR 2" TO < 3" CONCRETE COVER		FOR 3" AND LARGER CONCRETE COVER	
	REBAR SPACING (CENTER TO CENTER)		REBAR SPACING (CENTER TO CENTER)		REBAR SPACING (CENTER TO CENTER)	
	< 8"	≥ 8"	< 8"	≥ 8"	< 8"	≥ 8"
LAP						
No.8	62"	62"	37"	37"	37"	37"
No.9	99"	79"	69"	55"	49"	42"
No.10	125"	100"	88"	70"	63"	50"
No.11	154"	123"	108"	86"	77"	62"
EMBEDMENT E						
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:

1. USE LAP LENGTHS AS DETERMINED FROM THESE TABLES UNLESS SHOWN OTHERWISE
2. THE TABLES SHOWN ARE FOR f'C=4000 PSI AND fy=60,000 PS1
3. 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
4. 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
5. UNLESS NOTED OTHERWISE USE REBAR COUPLERS FOR SPLICES OF No.11 AND LARGER BARS
6. 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

S-143 / 45 **STANDARD 90° BAR HOOKS, EMBEDMENT LENGTHS AND LAP LENGTHS**

UNLESS OTHERWISE NOTED ON DRAWINGS



NOTES:

1. CUT NORMAL REINFORCEMENT AT OPENINGS:
   As_1 AND As_2 = 1/2 AREA OF CUT BARS TO BE ADDED ON EACH SIDE OF OPENING
2. ADDITIONAL BARS As_1 AND As_2 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
3. 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
4. THIS DETAIL TO BE USED ONLY WHEN NO OTHER DETAIL IS INDICATED ON THE DRAWINGS
5. WHERE A SLAB OR INTERSECTING WALL CONNECTS WITHIN ONE WALL THICKNESS OF THE OPENING, ADDITIONAL BARS ON THAT SIDE MAY BE OMITTED

S-144 / 45 **ADDITIONAL REINFORCEMENT AT CIRCULAR OPENINGS (12" DIA OR LARGER)**

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

A / 6 6 — DETAIL/SECTION NUMBER
DRAWING No. WHERE DETAIL/SECTION IS REFERENCED
DRAWING No. WHERE DETAIL/SECTION IS SHOWN

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0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	JBEVER	P.CORSER

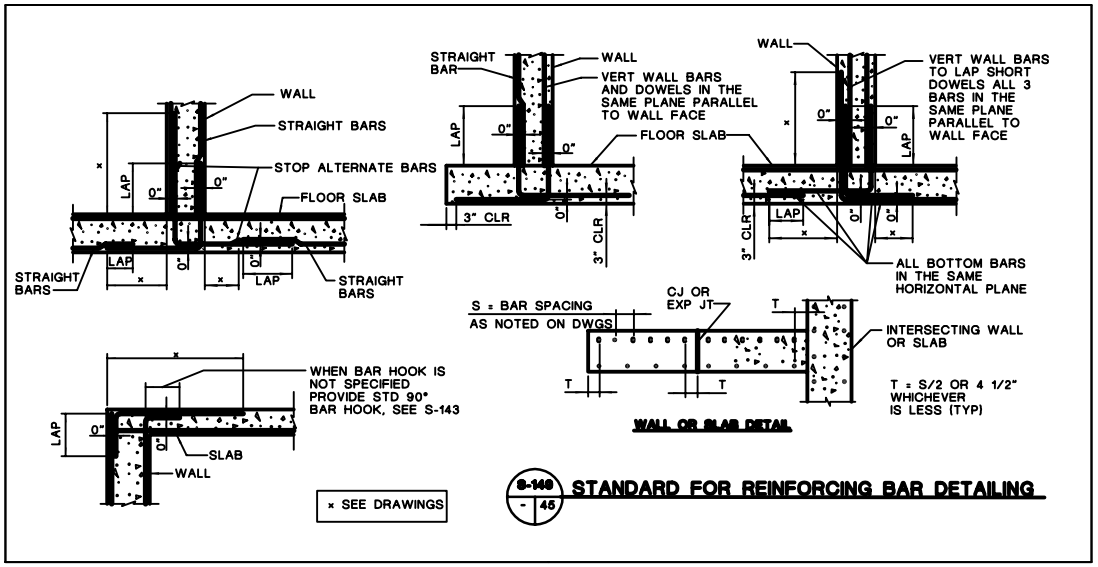
TRIASSIC PARK
WASTE DISPOSAL FACILITY

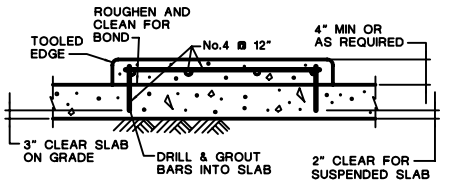
DRAWING TITLE:
CONCRETE AND GRATING DETAILS

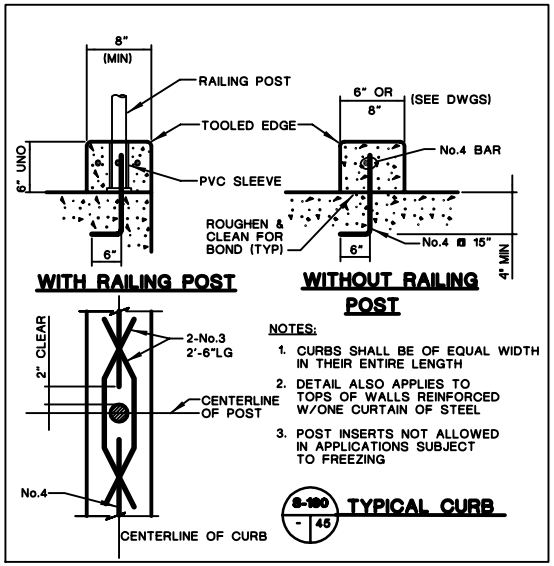
TerraMatrix
MONTGOMERY WATSON
Mining Group

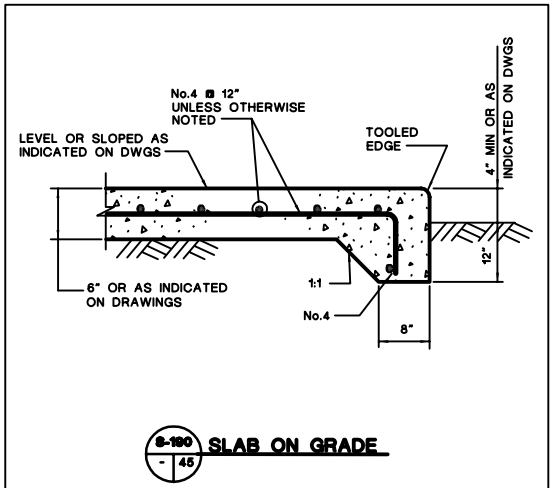
Sheet 3 Of 6 Sheets
SCALE: AS NOTED
DRAWING No. 45

AutoCAD FILE: CONC-DTLS-1C.DWG PROJECT NUMBER: 602-0200









NOTE:
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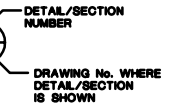

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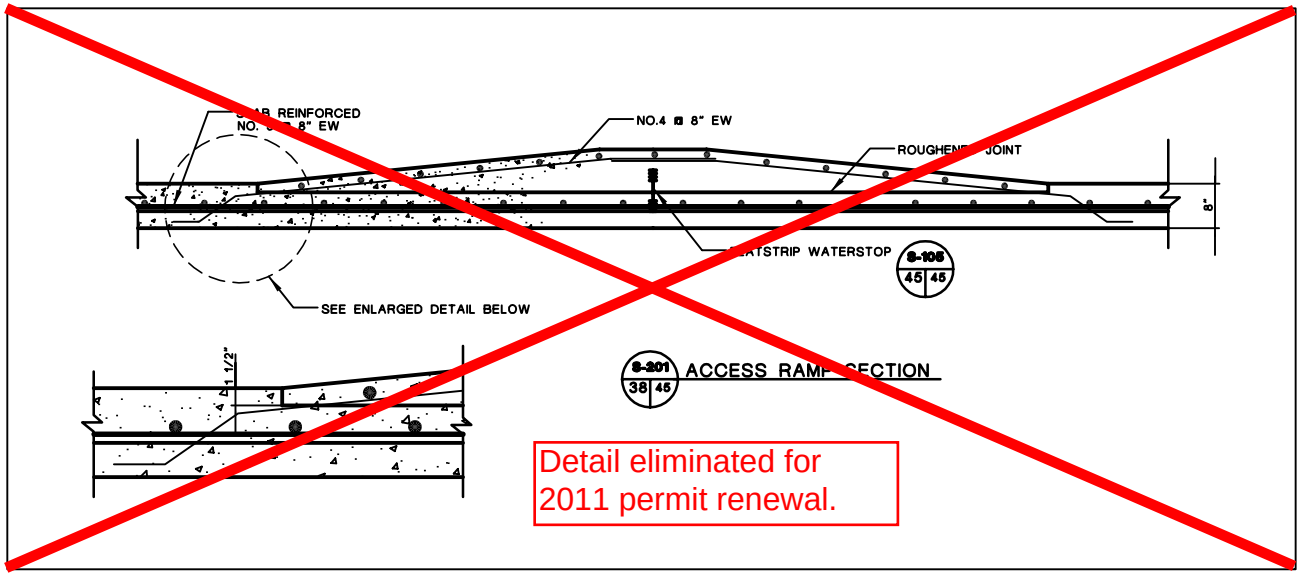
TerraMatrix
MONTGOMERY WATSON
Mining Group

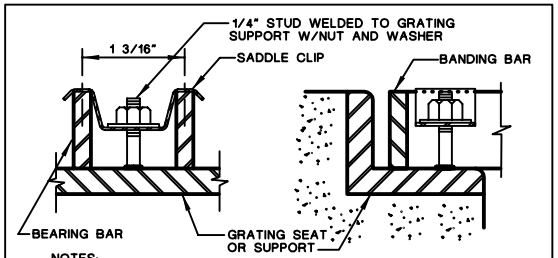
Sheet 4 Of 5 Sheets
SCALE: AS NOTED
DRAWING No. 45

AutoCAD FILE: CONC-DTLS-RD.DWG PROJECT NUMBER: 692-0200



S-201 38 45 ACCESS RAMP SECTION

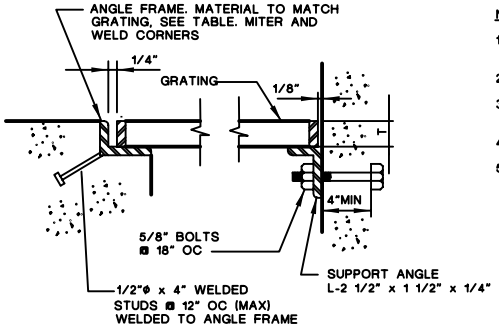
Detail eliminated for 2011 permit renewal.



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

S-517 - 45 GRATING ANCHOR DETAIL



NOTES:

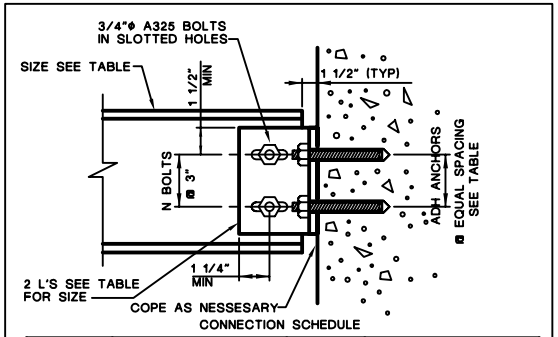
1. GRATING DEPTH TO BE DETERMINED BY MANUFACTURER AND APPROVED BY ENGINEER (UNO)
2. ALL ENDS AND OPENINGS SHALL BE BANDED
3. ALL GRATING SHALL BE SECURED IN PLACE WITH REMOVABLE FASTENERS, SEE DETAIL S-517
4. GRATING SHALL BE DESIGNED FOR A 5-TON FORKLIFT LOAD
5. BEARING BARS SHALL BE DEPTH T x 3/16" @ 1 3/16" OC CROSS BARS SHALL BE @ 4" OC

S-502 - 45 GALVANIZED STEEL GRATING

USE STEEL ANGLE SUPPORTS AND BOLTS GALVANIZE AFTER FABRICATION

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

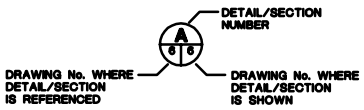


CONNECTION SCHEDULE

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" ø @ 6"

S-503 - 45 BEAM TO CONCRETE CONNECTION

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



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1	NOVEMBER 1999 UPDATES	11/02/99	J.Troncoso	M.Mathisen	P.Corser
0	PART B PERMIT APPLICATION	12/12/97	PGC/JPP	J.BEVER	P.CORSER

TRIASSIC PARK
WASTE DISPOSAL FACILITY

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TerraMatrix
MONTGOMERY WATSON
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Sheet 5 Of 5 Sheets
SCALE: AS NOTED
DRAWING No. 45

AutoCAD FILE: CONC-DTLS-NEW.dwg PROJECT NUMBER: 602-0300