

NM1-62

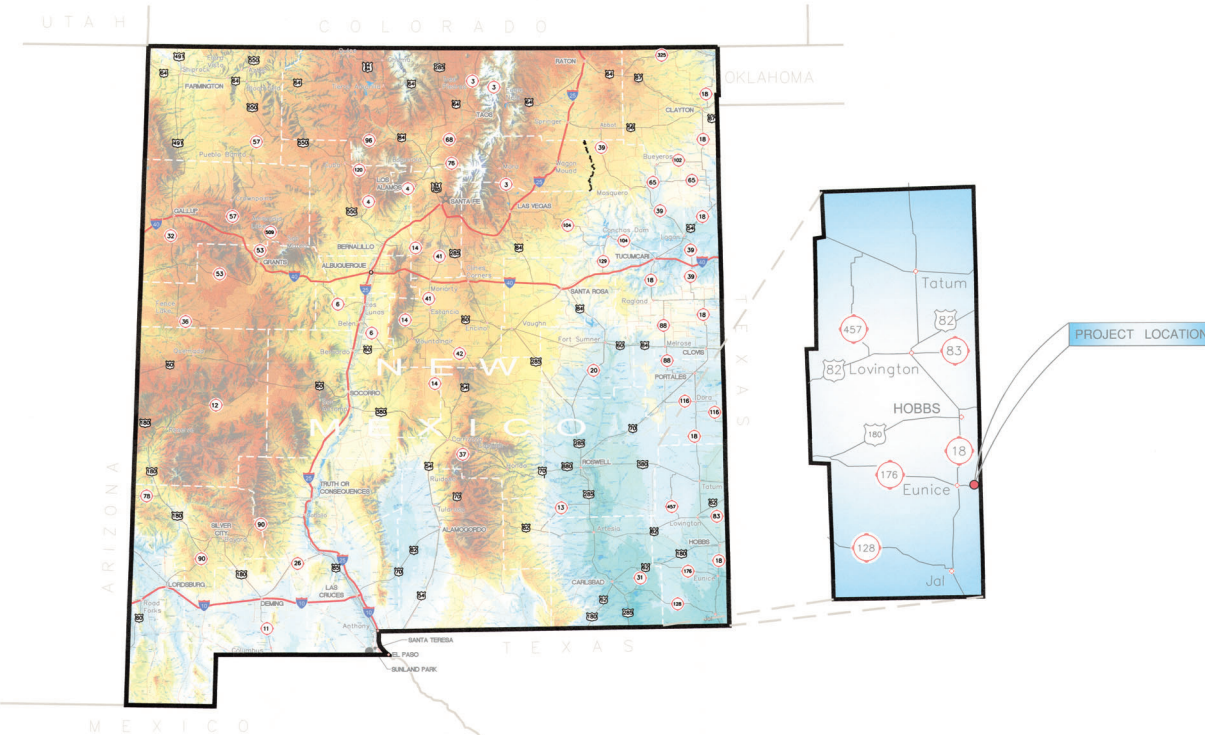
**Construction
Plans**

**Basins Phase 1
Cell 1A**

7/25/17

SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 & SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS LEA COUNTY, NEW MEXICO



213 S. Camino del Pueblo
Bernalillo, New Mexico 87004
505.867.6990

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GENERAL

G-001 COVER SHEET AND INDEX

CIVIL

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GORDON PSC
ENVIRONMENTAL



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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

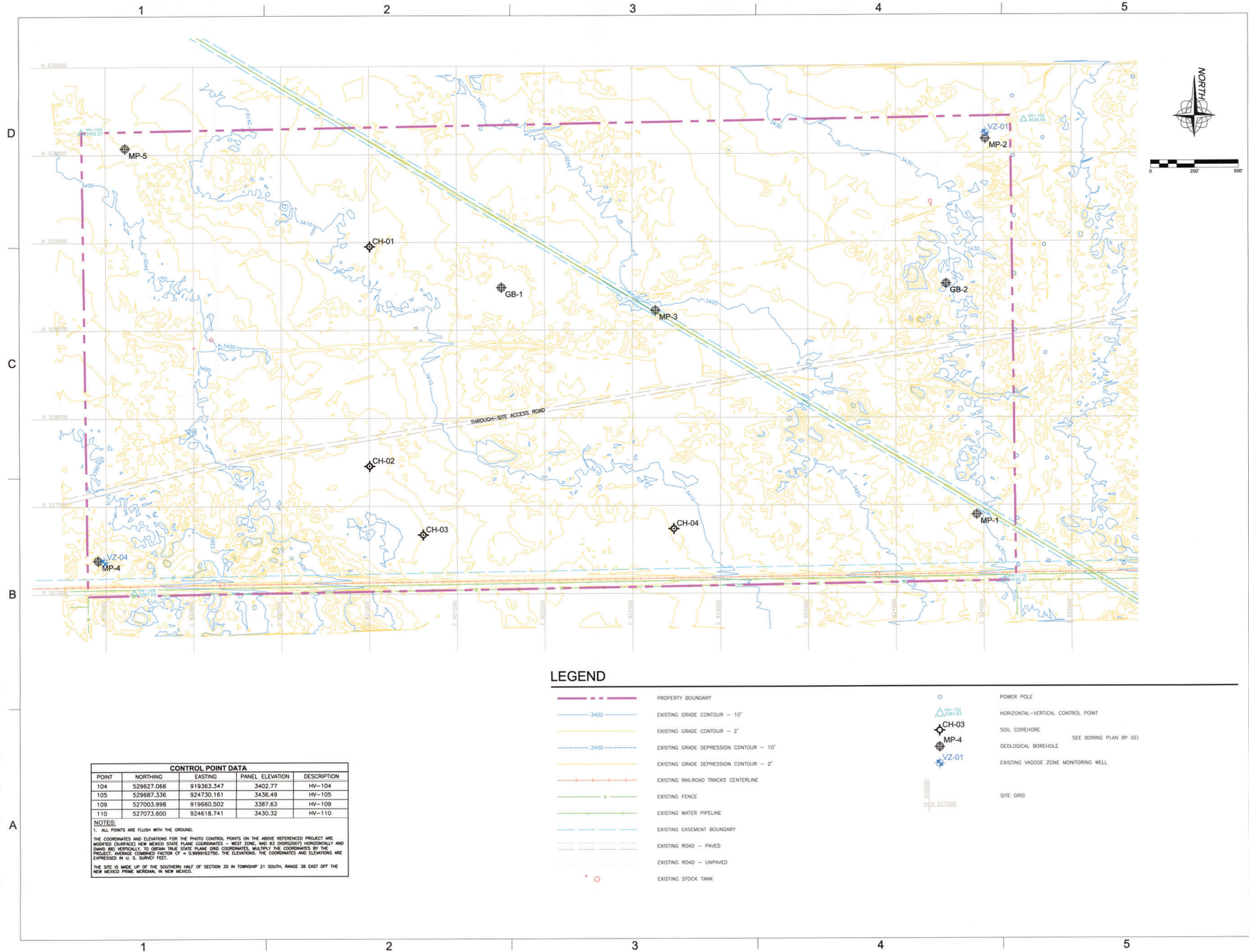
1	07/24/2017	FOR CONSTRUCTION
2	05/01/2017	O.C.D. REVIEW DOCUMENTS
NO.	DATE	DESCRIPTION
ISSUING OFFICE:	BERNALILLO	PROJECT NO.: 0111-07

COVER SHEET
AND INDEX

G-001

SET NUMBER

FILE NAME: \\X:\dms\2017\0111-17\02_DSGN\DWG\00500_CIVIL\01-0111-17.dwg LAYOUT NAME: C-101 PRINTED: Monday, July 24, 2017 - 9:08am USER: ambrwn



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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE
1 (BASINS 1-6) AND SURFACE
SOLID WASTE DISPOSAL CELL
1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

LEGEND

- PROPERTY BOUNDARY
- EXISTING GRADE CONTOUR - 10'
- EXISTING GRADE CONTOUR - 2'
- EXISTING GRADE DEPRESSION CONTOUR - 10'
- EXISTING GRADE DEPRESSION CONTOUR - 2'
- EXISTING RAILROAD TRACKS CENTERLINE
- EXISTING FENCE
- EXISTING WATER PIPELINE
- EXISTING EASEMENT BOUNDARY
- EXISTING ROAD - PAVED
- EXISTING ROAD - UNPAVED
- EXISTING STOCK TANK
- POWER POLE
- HORIZONTAL-VERTICAL CONTROL POINT
- SOIL CORDBORE
- GEOLOGICAL BOREHOLE
- EXISTING VADOSE ZONE MONITORING WELL
- SITE GRID

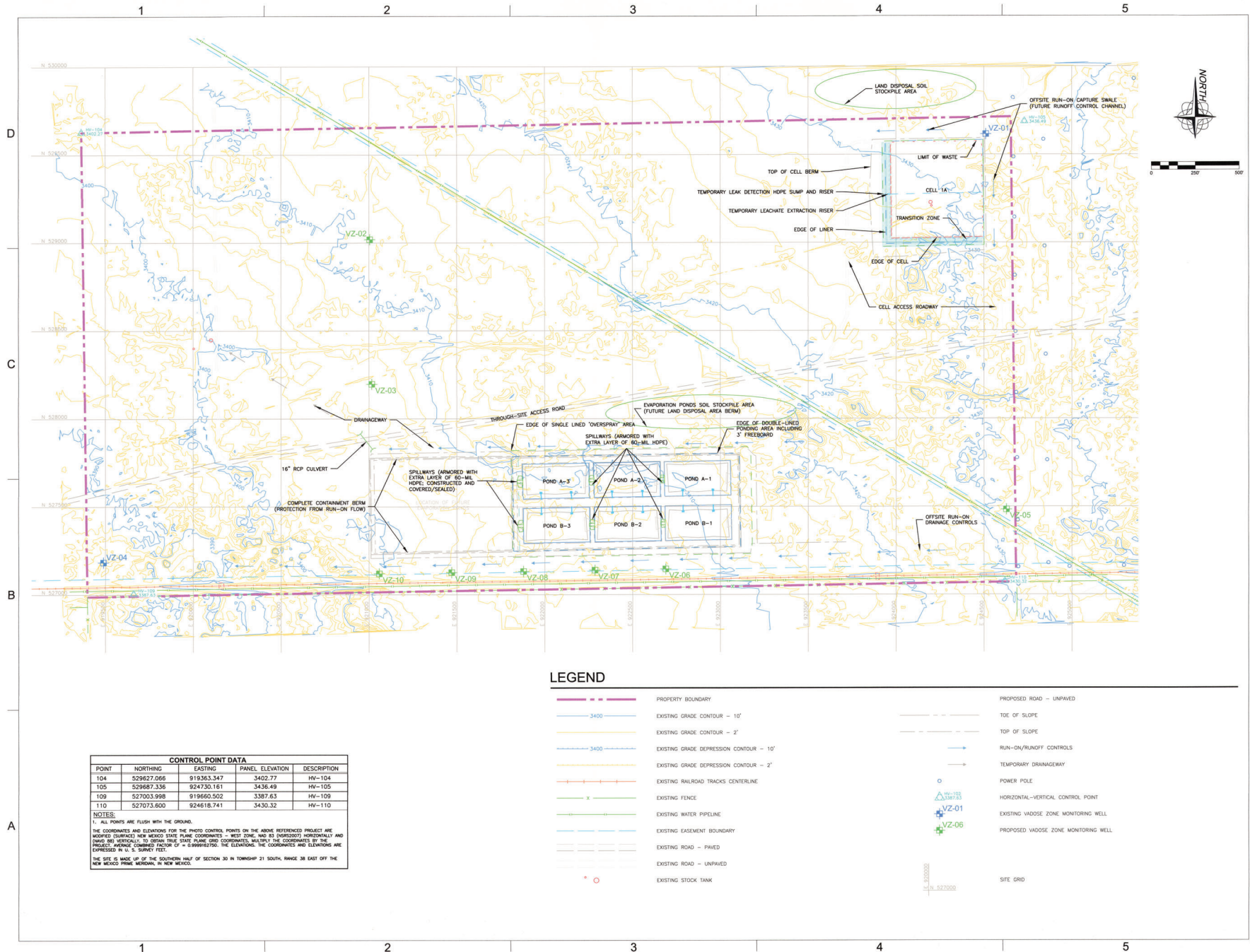
CONTROL POINT DATA				
POINT	NORTHING	EASTING	PANEL ELEVATION	DESCRIPTION
104	529627.066	919363.347	3402.77	HW-104
105	529687.336	924730.161	3436.49	HW-105
109	527003.998	919660.502	3387.63	HW-109
110	527073.600	924618.741	3430.32	HW-110

NOTES:
1. ALL POINTS ARE FLUSH WITH THE GROUND.
2. THE COORDINATES AND ELEVATIONS FOR THE PHOTO CONTROL POINTS ON THE ABOVE REFERENCED PROJECT ARE ADJUSTED (SURFACE) NEW MEXICO STATE PLANE COORDINATES - WEST ZONE, NAD 83 (DISP2007) HORIZONTALLY AND (DAVED) AND VERTICALLY TO OBTAIN TRUE STATE PLANE GRID COORDINATES. MAINTAIN THE COORDINATES BY THE PROJECT AVERAGE CORRECTION FACTOR OF 0.000018750. THE ELEVATIONS, THE COORDINATES AND ELEVATIONS ARE EXPRESSED IN U.S. SURVEY FEET.
3. THE SITE IS MADE UP OF THE SOUTHERN HALF OF SECTION 30 IN TOWNSHIP 21 SOUTH, RANGE 38 EAST OF THE NEW MEXICO PRIME MERIDIAN, IN NEW MEXICO.

SITE PLAN
EXISTING
CONDITIONS

C-101

FILE NAME: V:\C:\dwg\20170111.1702_CSGN02_DWG050_CIVILC-102-011-17.dwg LAYOUT NAME: C-102 PRINTED: Monday, July 24, 2017 9:05am USER: amebien



SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

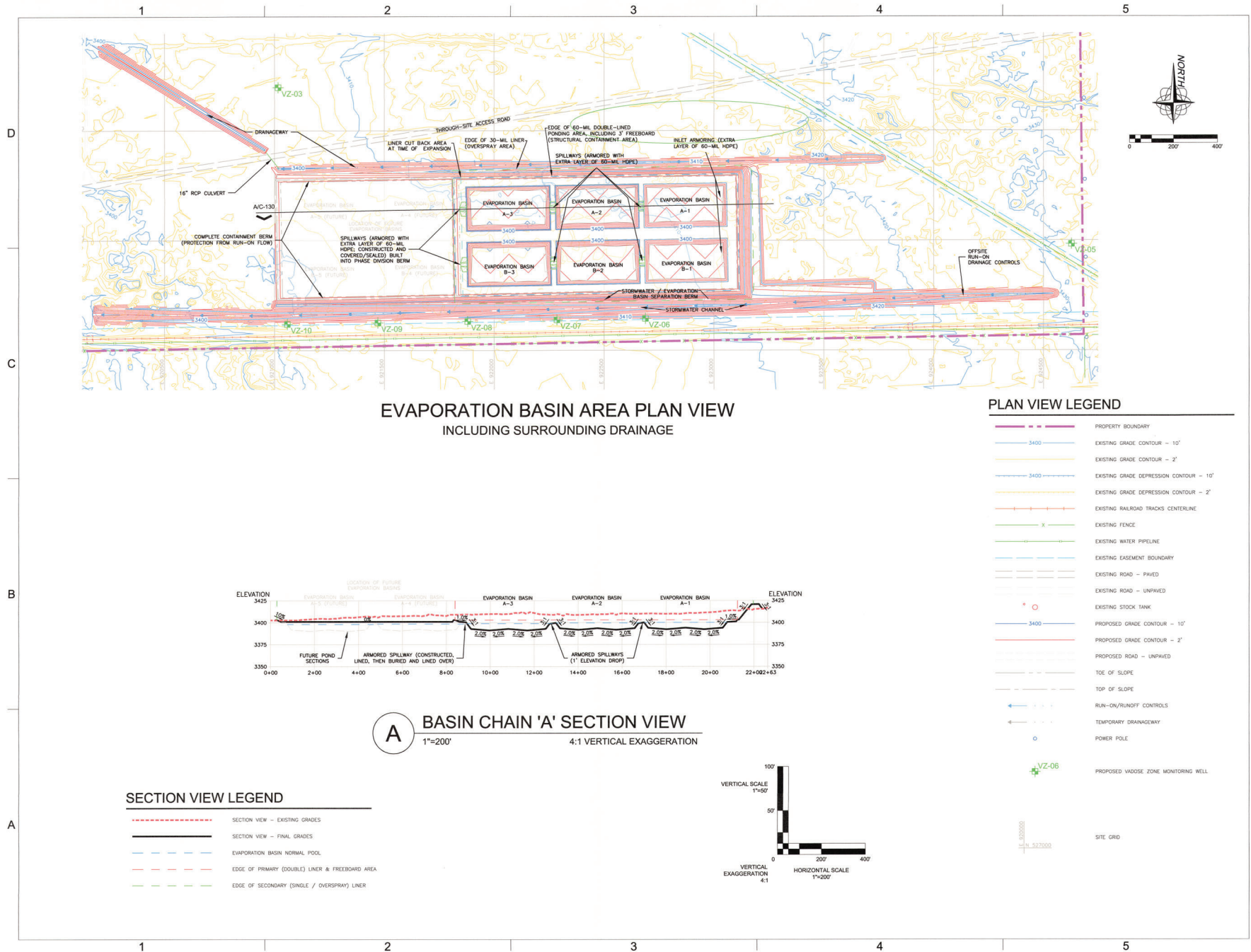
KEY PLAN

1	07/24/2017	FOR CONSTRUCTION
NO	DATE	DESCRIPTION
1	05/01/2017	O.C.D. REVIEW DOCUMENTS
ISSUING OFFICE:	BERNALILLO	PROJECT NO: 0111.17

SITE DEVELOPMENT
PLAN

C-102

FILE NAME: V:\X_dwg\2017\01117102_DSGN02_DWG0506_CIVIL-C-130-0111-17.dwg LAYOUT NAME: C-130 PRINTED: Monday, July 24, 2017 9:01am USER: amdbrien



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ENVIRONMENTAL

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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

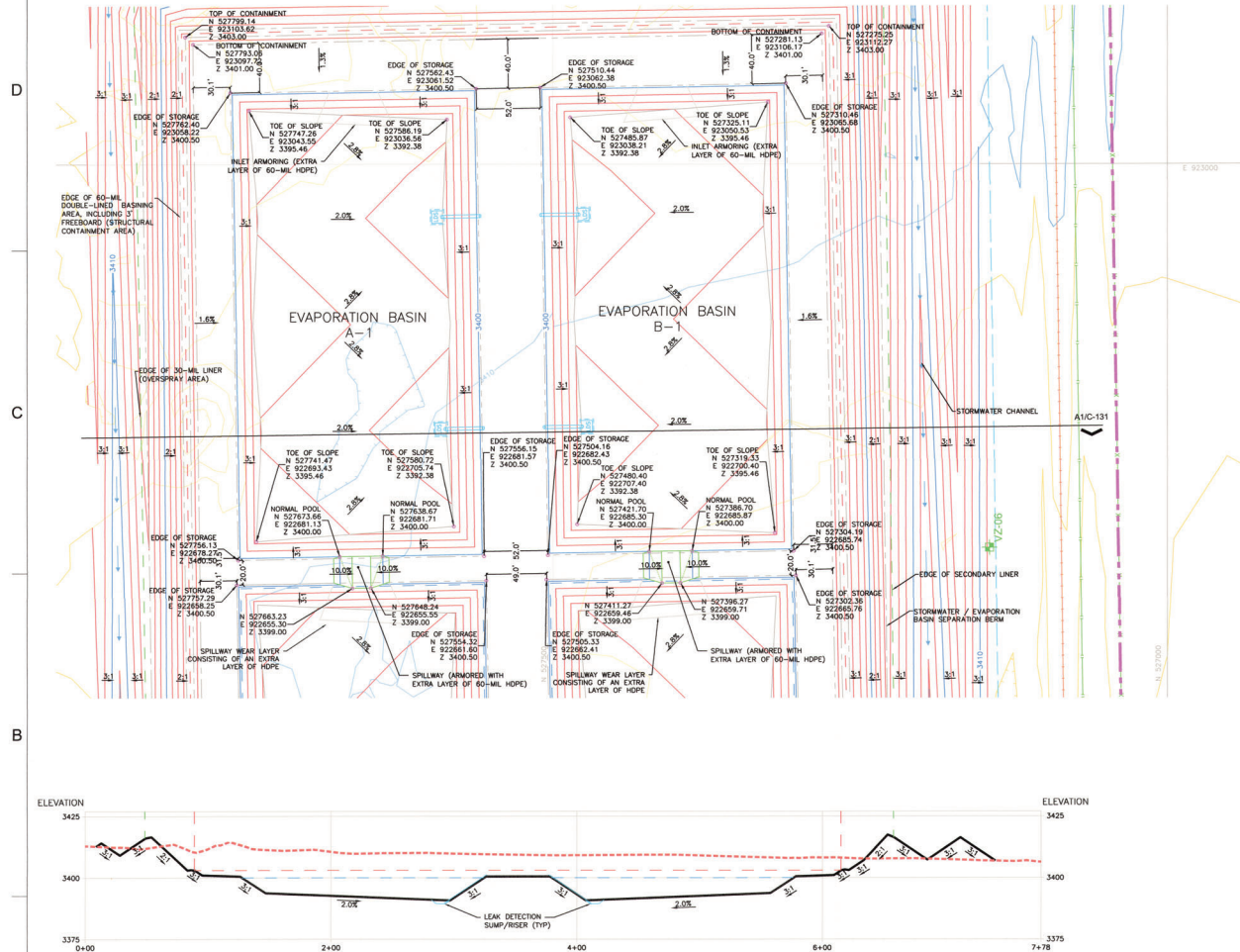
LEA COUNTY, NEW MEXICO

EVAPORATION BASINS AREA PLAN AND SECTION WITH DRAINAGE

C-130

FILE NAME: V:\X_dwg\20170111.1702_DSGN02_DWG050_CIVILC-131-011-17.dwg LAYOUT NAME: C-131 PRINTED: Monday, July 24, 2017 - 8:50am USER: amcbm

EVAPORATION BASINS A-1 AND B-1 PLAN VIEW

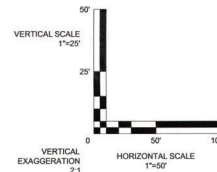


A1

EVAPORATION BASINS A-1 AND B-1

2:1 VERTICAL EXAGGERATION

SECTION VIEW



LEGEND

- PROPERTY BOUNDARY
- EXISTING GRADE CONTOUR - 10'
- EXISTING GRADE CONTOUR - 2'
- EXISTING GRADE DEPRESSION CONTOUR - 10'
- EXISTING GRADE DEPRESSION CONTOUR - 2'
- EXISTING RAILROAD TRACKS CENTERLINE
- EXISTING FENCE
- EXISTING WATER PIPELINE
- EXISTING EASEMENT BOUNDARY
- EXISTING STOCK TANK
- PROPOSED GRADE CONTOUR - 10'
- PROPOSED GRADE CONTOUR - 2'
- TOE OF SLOPE
- TOP OF SLOPE
- RUN-ON/RUNOFF CONTROLS
- POWER POLE
- PROPOSED VADOSE ZONE MONITORING WELL
- LEAK DETECTION SLUMP AND RISER



- KEY PLAN
- SECTION VIEW - EXISTING GRADES
- SECTION VIEW - FINAL GRADES
- EVAPORATION BASIN NORMAL POOL ELEVATION
- EDGE OF PRIMARY (DOUBLE) LINER & FREEBOARD ELEVATION
- EDGE OF SECONDARY (SINGLE / OVERSPRAY) LINER

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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

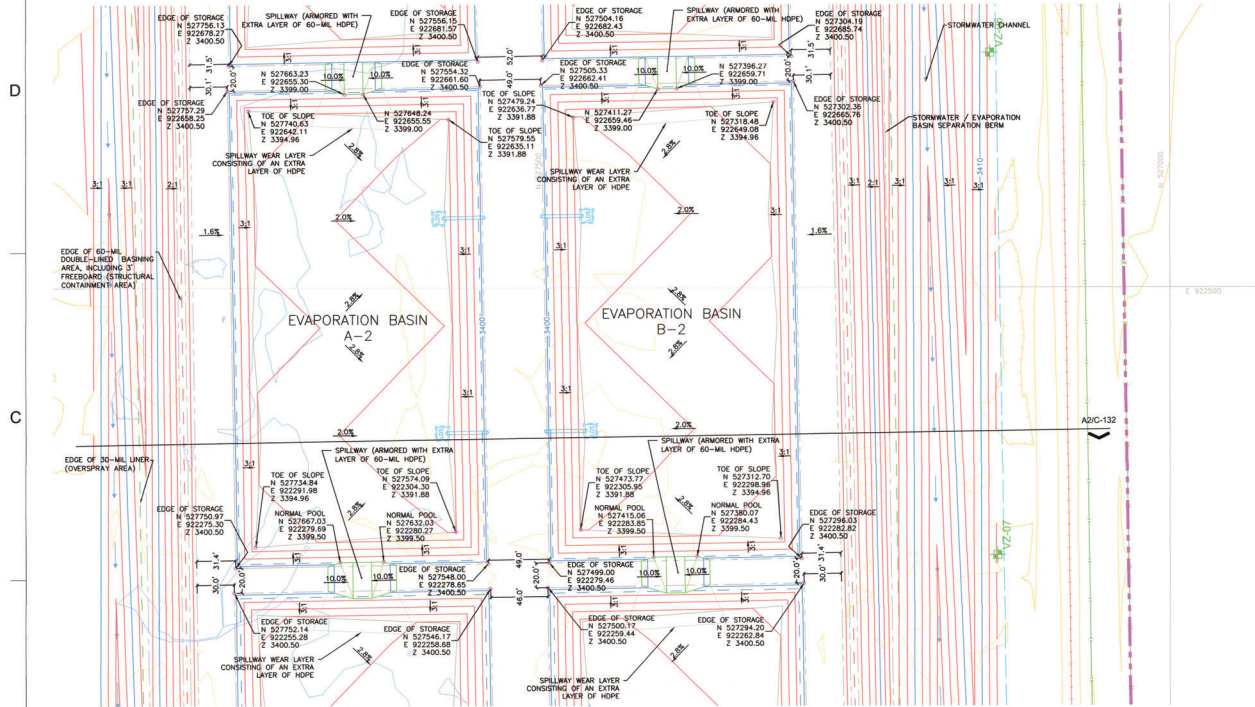
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NO DATE DESCRIPTION
ISSUING OFFICE: BERNALILLO PROJECT NO: 0111.17

EVAPORATION BASINS A-1 AND B-1 PLAN & SECTION C-131

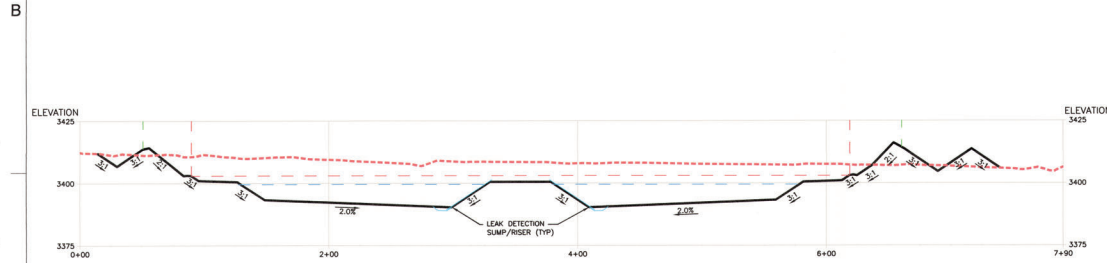
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EVAPORATION BASINS A-2 AND B-2 PLAN VIEW

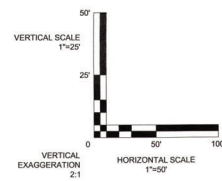


LEGEND

- PROPERTY BOUNDARY
- EXISTING GRADE CONTOUR - 10'
- EXISTING GRADE CONTOUR - 2'
- EXISTING GRADE DEPRESSION CONTOUR - 10'
- EXISTING GRADE DEPRESSION CONTOUR - 2'
- EXISTING RAILROAD TRACKS CENTERLINE
- EXISTING FENCE
- EXISTING WATER PIPELINE
- EXISTING EASEMENT BOUNDARY
- EXISTING STOCK TANK
- PROPOSED GRADE CONTOUR - 10'
- PROPOSED GRADE CONTOUR - 2'
- TOE OF SLOPE
- TOP OF SLOPE
- RUN-ON/RUNOFF CONTROLS
- POWER POLE
- PROPOSED VADOSE ZONE MONITORING WELL
- LEAK DETECTION SUMP AND RISER
- SITE GRID



A2 EVAPORATION BASINS A-2 AND B-2
2:1 VERTICAL EXAGGERATION SECTION VIEW



- SECTION VIEW - EXISTING GRADES
- SECTION VIEW - FINAL GRADES
- EVAPORATION BASIN NORMAL POOL ELEVATION
- EDGE OF PRIMARY (DOUBLE) LINER & FREEBOARD ELEVATION
- EDGE OF SECONDARY (SINGLE / OVERSPRAY) LINER

GORDON **PSC**
ENVIRONMENTAL



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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

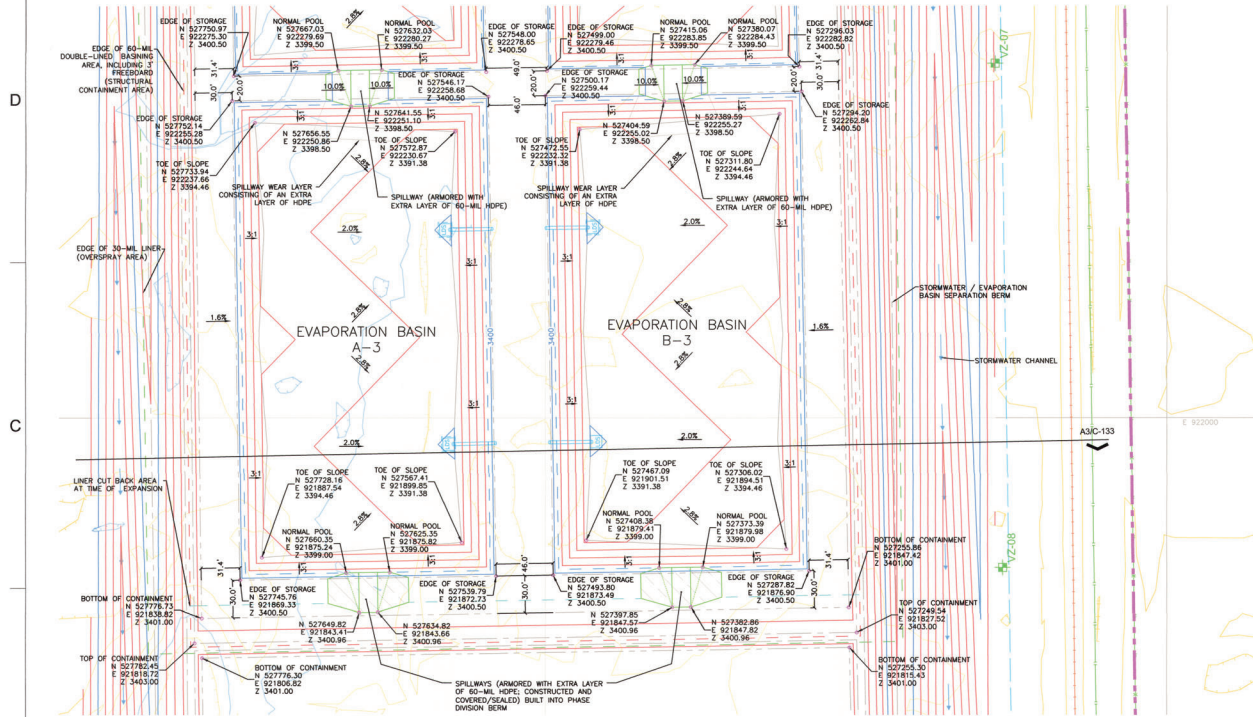
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1	07/24/2017	FOR CONSTRUCTION
2	05/01/2017	O.C.D. REVIEW DOCUMENTS
NO.	DATE	DESCRIPTION
ISSUING OFFICE:	BERNALILLO	PROJECT NO.: 0111.17

EVAPORATION BASINS A-2 AND B-2 PLAN & SECTION

C-132

EVAPORATION BASINS A-3 AND B-3 PLAN VIEW



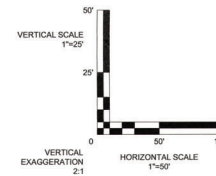
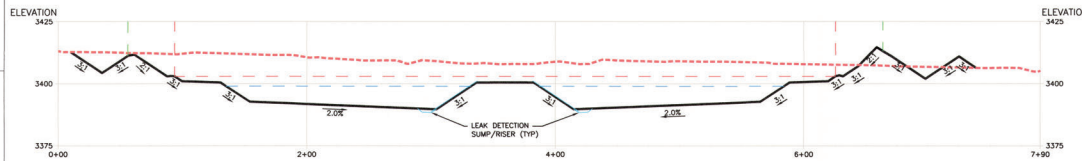
LEGEND

- PROPERTY BOUNDARY
- EXISTING GRADE CONTOUR - 10'
- EXISTING GRADE CONTOUR - 2'
- EXISTING GRADE DEPRESSION CONTOUR - 10'
- EXISTING GRADE DEPRESSION CONTOUR - 2'
- EXISTING RAILROAD TRACKS CENTERLINE
- EXISTING FENCE
- EXISTING WATER PIPELINE
- EXISTING EASEMENT BOUNDARY
- EXISTING STOCK TANK
- PROPOSED GRADE CONTOUR - 10'
- PROPOSED GRADE CONTOUR - 2'
- TOE OF SLOPE
- TOP OF SLOPE
- RUN-ON/RUNOFF CONTROLS
- POWER POLE
- PROPOSED VADOSE ZONE MONITORING WELL
- LEAK DETECTION SUMP AND RISER
- SITE GRID



- SECTION VIEW - EXISTING GRADES
- SECTION VIEW - FINAL GRADES
- EVAPORATION BASIN NORMAL POOL ELEVATION
- EDGE OF PRIMARY (DOUBLE) LINER & FREEBOARD ELEVATION
- EDGE OF SECONDARY (SINGLE / OVERSPRAY) LINER

A3 EVAPORATION BASINS A-3 AND B-3 2:1 VERTICAL EXAGGERATION SECTION VIEW



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EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

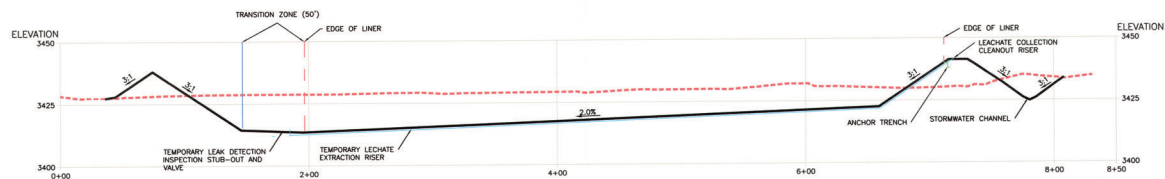
LEA COUNTY, NEW MEXICO

KEY PLAN

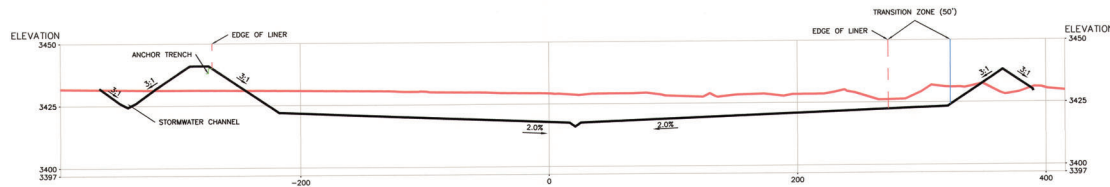
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2 05/01/2017 O.C.D. REVIEW DOCUMENTS
NO. DATE DESCRIPTION
ISSUING OFFICE: BERNALILLO PROJECT NO.: 0111.17

EVAPORATION BASINS A-3 AND B-3 PLAN & SECTION C-133

FILE NAME: V:\X_dwg\2017\0111-1732_DSG062_DWG060_CIVIL-C-301-011-17.dwg LAYOUT NAME: C-301 PRINTED: Monday, July 24, 2017 - 8:52am USER: andrew



A LAND DISPOSAL AREA EAST-WEST SECTION
2:1 VERTICAL EXAGGERATION EAST-WEST SECTION VIEW

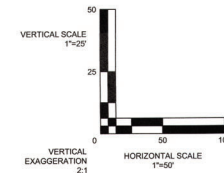


B LAND DISPOSAL AREA NORTH-SOUTH SECTION
2:1 VERTICAL EXAGGERATION EAST-WEST SECTION VIEW

SEE SHEET C-103 FOR SECTION LOCATIONS

LEGEND

- SECTION VIEW - EXISTING GRADES
- SECTION VIEW - FINAL GRADES
- EDGE OF LINED AREA



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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE
1 (BASINS 1-6) AND SURFACE
SOLID WASTE DISPOSAL CELL
1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

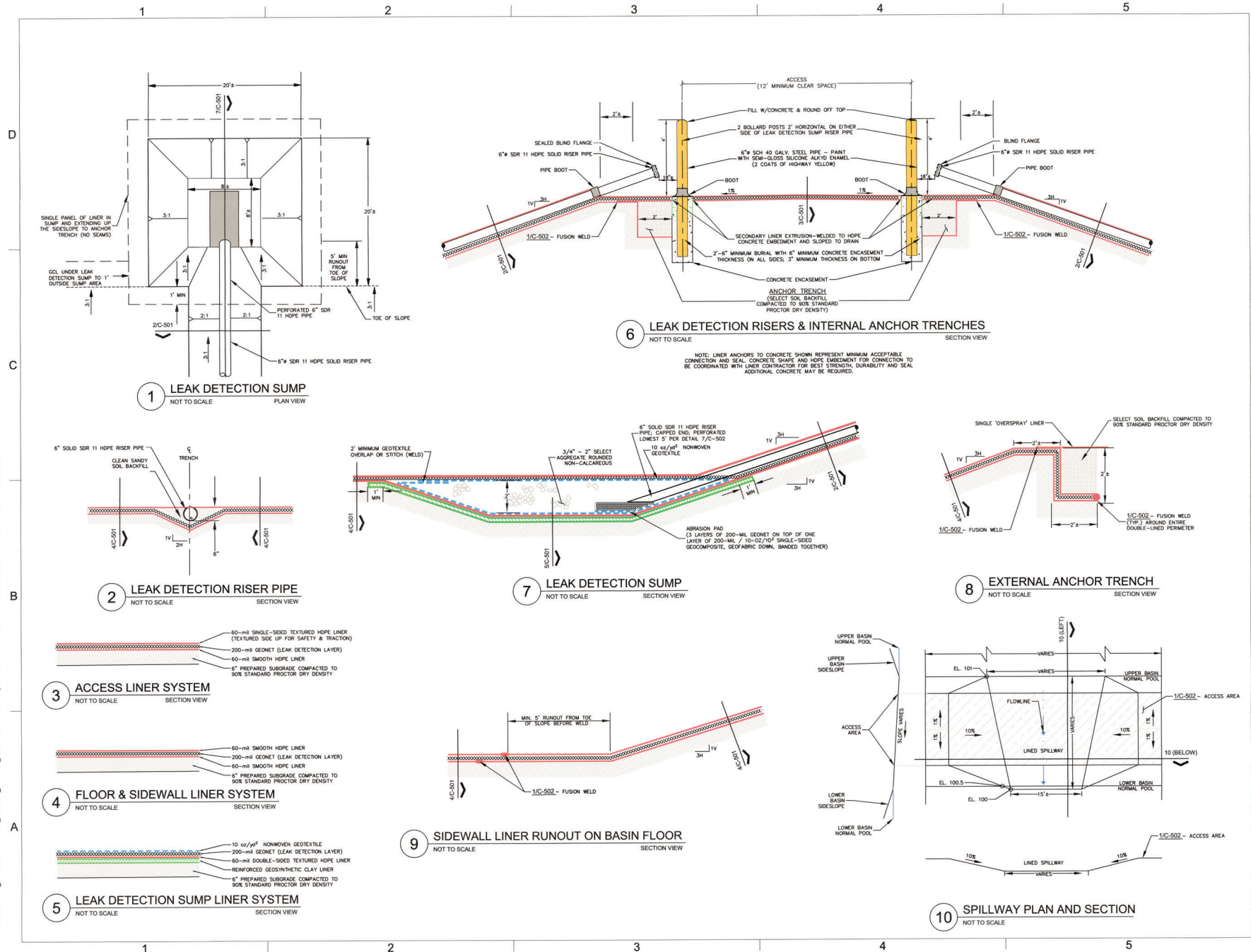
KEY PLAN

NO.	DATE	DESCRIPTION
1	07/24/2017	FOR CONSTRUCTION
2	05/01/2017	O.C.D. REVIEW DOCUMENTS
ISSUING OFFICE:	BERNALILLO	PROJECT NO.: 0111.17

**LAND DISPOSAL
CELL 1A
SECTIONS**

C-301

FILE NAME: \\X:_dms\20170111-1732_DSGN02_DWG0060_C-501_PRINTED Monday, July 24, 2017 - 8:50am USER: ambrin



SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

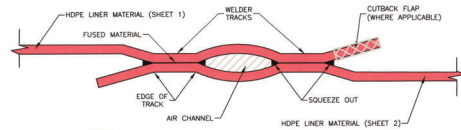
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1	07/24/2017	FOR CONSTRUCTION
2	05/01/2017	O.C.D. REVIEW COMMENTS
NO	DATE	DESCRIPTION
ISSUING OFFICE: BERNALILLO		PROJECT NO: 0111.17

EVAPORATION BASINS DETAILS

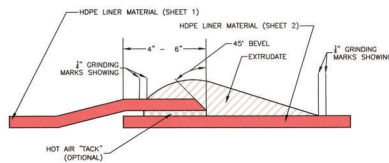
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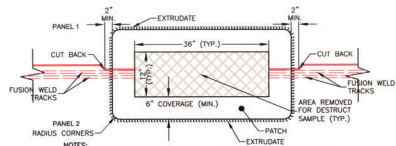
- NOTES:
1. BOTH AREAS OF FUSED MATERIAL SHOULD BE VOID OF ANY SEAM LINES
 2. EDGE OF TRACKS NOT TO CUT THE LINER
 3. AIR CHANNEL SHOULD BE CLEAR
 4. BOTH WELDER TRACKS SHALL BE EQUAL WIDTHS
 5. SQUEEZE OUT SHOULD BE JUST BARELY VISIBLE IN ALL FOUR (4)
 6. LOCATIONS WHEN VIEWED IN THE TEST CROSS-SECTION
 7. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED

1 TYPICAL DOUBLE TRACK FUSION WELD
NOT TO SCALE SECTION VIEW



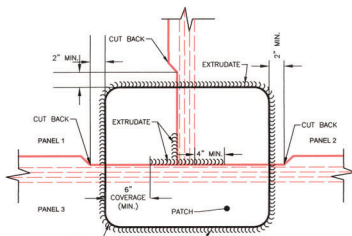
- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED

2 TYPICAL EXTRUSION WELD
NOT TO SCALE SECTION VIEW



- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED
 2. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED
 3. PATCHES SHALL BE OVERLAPPED IN NUMERICAL ORDER - HIGHEST ON TOP

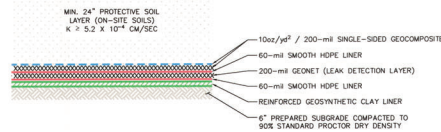
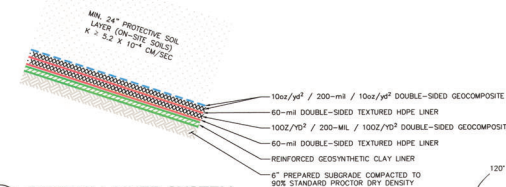
3 TYPICAL HDPE LINER SEAM PATCH
NOT TO SCALE SECTION VIEW



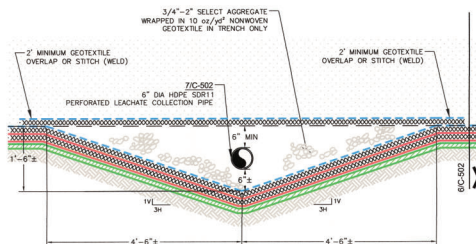
- NOTES:
1. ALL EXTRUSION WELDS SHALL BE VACUUM TESTED
 2. ALL DOUBLE TRACK FUSION WELDS SHALL BE AIR PRESSURE TESTED
 3. PATCHES SHALL BE OVERLAPPED IN NUMERICAL ORDER - HIGHEST ON TOP

4 TYPICAL "T" AT BUTT SEAM
NOT TO SCALE SECTION VIEW

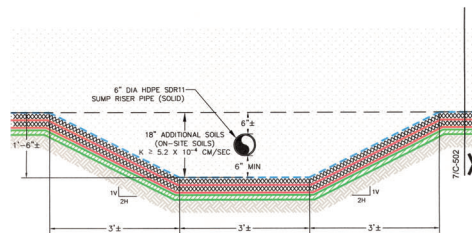
5 SIDEWALL LINER SYSTEM
NOT TO SCALE SECTION VIEW



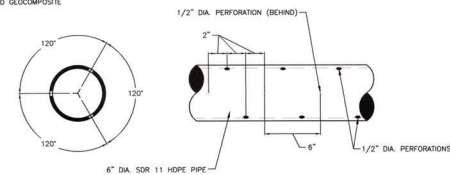
6 FLOOR LINER SYSTEM
NOT TO SCALE SECTION VIEW



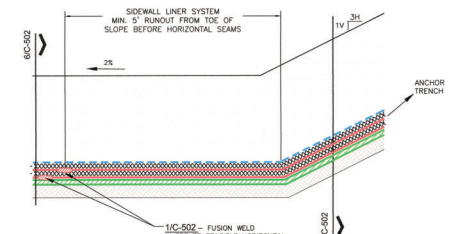
8 LEACHATE COLLECTION TRENCH AND PIPE
NOT TO SCALE SECTION VIEW



9 LEACHATE COLLECTION PIPE CLEANOUT RISER AND TRENCH
NOT TO SCALE SECTION VIEW



7 PERFORATED LEACHATE COLLECTION PIPE
NOT TO SCALE SECTION VIEW



10 LINER RUN-OUT ON LANDFILL FLOOR
NOT TO SCALE SECTION VIEW

SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

1 07/24/2017 FOR CONSTRUCTION
05/01/2017 O.C.D. REVIEW DOCUMENTS
NO DATE DESCRIPTION
ISSUING OFFICE: BERNALILLO PROJECT NO: 0111.17

LAND
DISPOSAL
DETAILS I

C-502

FILE NAME: V:_dms20170111.1702_CDS0002_DWG0000_CIVIL-C-503-011-17.dwg LAYOUT NAME: C-503 PRINTED: Monday, July 24, 2017 - 8:48am USER: andrian

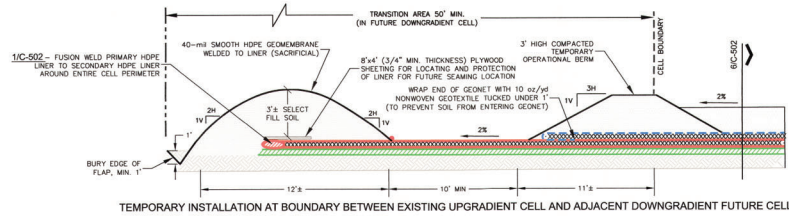
1

2

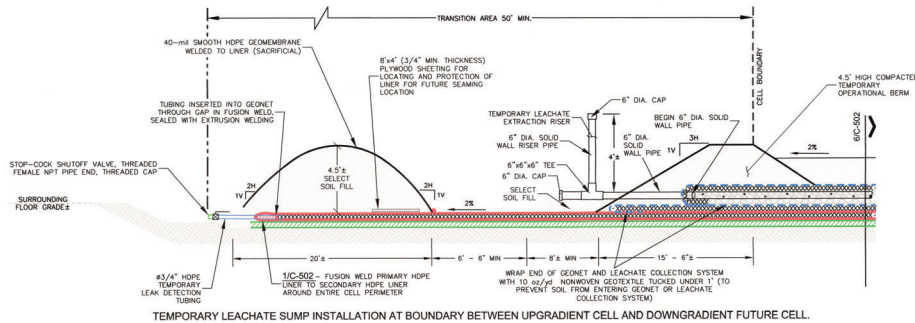
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4

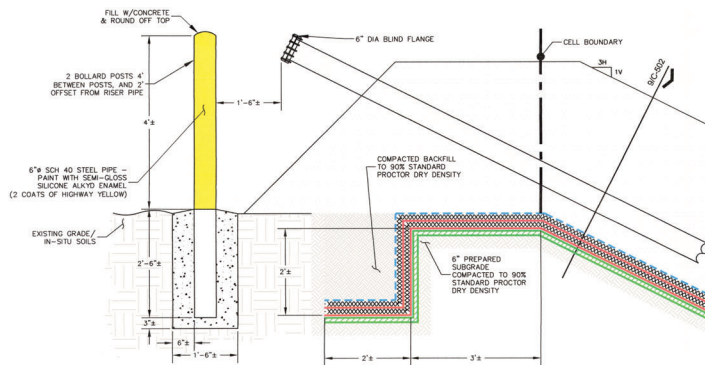
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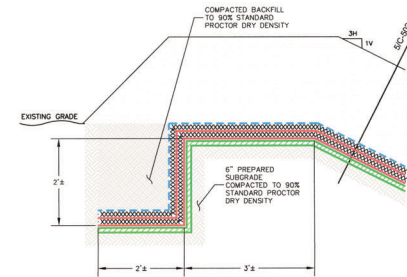
1 TYPICAL CELL TRANSITION AREA
NOT TO SCALE SECTION VIEW



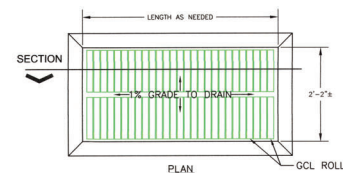
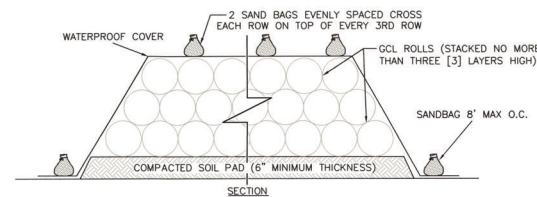
2 TEMPORARY SUMP DETAIL
NOT TO SCALE SECTION VIEW



3 CLEANOUT RISER TERMINATION
NOT TO SCALE SECTION VIEW



4 PERMANENT ANCHOR TRENCH
NOT TO SCALE SECTION VIEW



5 GCL STORAGE PAD
NOT TO SCALE PLAN & SECTION VIEWS

GORDON **PSC**
ENVIRONMENTAL

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SUNDANCE WEST SURFACE WASTE MANAGEMENT FACILITY

EVAPORATION BASINS PHASE 1 (BASINS 1-6) AND SURFACE SOLID WASTE DISPOSAL CELL 1A CONSTRUCTION PLANS

LEA COUNTY, NEW MEXICO

KEY PLAN

1	07/24/2017	FOR CONSTRUCTION
2	05/01/2017	O.C.D. REVIEW DOCUMENTS
NO	DATE	DESCRIPTION
ISSUING OFFICE:	BERNALILLO	PROJECT NO: 0111.17

LAND
DISPOSAL
DETAILS II

C-503