

SHEET NUMBERS	DESCRIPTION
1	INDEX SHEET
2-12	GRADING PLAN
13-14	NOTES AND DETAILS

ESTIMATED EARTHWORK QUANTITIES	
SECTION 3 CUT = 328,899 CY	FILL = 128,818*
EXCESS CUT = 199,881 CY	
*SHRINKAGE FACTOR USED = 1.15%	

TURBINE NO. & ROTOR SIZE	NORTHING	EASTING
A-1 52M	2288390.18	6435358.94
A-2 80M	2288017.08	6435319.35
A-3 80M	2287636.34	6435377.52
A-4 80M	2287255.81	6435299.85
A-5 80M	2286875.37	6435286.94
A-6 80M	2286494.82	6435179.26
A-7 80M	2286113.84	6435167.47
A-8 80M	2285733.43	6435287.68
A-9 80M	2285353.27	6435354.24
A-10 80M	2284972.45	6435321.39
A-11 80M	2284591.34	6435449.69
A-12 80M	2284210.16	6435535.19
A-13 80M	2283829.93	6435536.51
A-14 80M	2283448.74	6435580.88
C-1 52M	2287843.12	6436289.10
C-2 52M	2287662.29	6436107.61
C-3 52M	2287481.14	6436050.93
C-4 52M	2287300.00	6436050.76
C-5 52M	2287118.85	6436050.05
C-6 80M	2286937.70	6436050.05
C-7 80M	2286756.55	6436050.05
C-8 80M	2286575.40	6436050.05
C-9 80M	2286394.25	6436050.05
C-10 80M	2286213.10	6436050.05
C-11 80M	2286032.00	6436050.05
C-12 80M	2285850.85	6436050.05
C-13 80M	2285669.70	6436050.05
C-14 80M	2285488.55	6436050.05
C-15 80M	2285307.40	6436050.05
E-1 52M	2286754.18	6437893.28
E-2 52M	2286573.03	6437814.80
E-3 52M	2286391.88	6437736.32
E-4 52M	2286210.73	6437657.84
E-5 52M	2286029.58	6437579.36
E-6 52M	2285848.43	6437500.88
E-7 52M	2285667.28	6437422.40
E-8 52M	2285486.13	6437343.92
E-9 52M	2285305.00	6437265.44
E-10 52M	2285123.85	6437186.96
E-11 80M	2284942.70	6437108.48
E-12 80M	2284761.55	6437030.00
E-13 80M	2284580.40	6436951.52
E-14 80M	2284399.25	6436873.04
E-15 80M	2284218.10	6436794.56

NEW DISTURBANCE CALCULATIONS FOR SECTION 3 PER THIS PLAN

PERMANENT DISTURBANCE 12' ROADS, 20' x 20' TURBINE PADS AND FUTURE SUBSTATION EXPANSION	4.06 AC.
TEMPORARY DISTURBANCE FOR GRADING OF SLOPES, 22' ROADS, CRANE PADS, EXCESS MATERIAL DISPOSAL AREAS AND THE INSTALLATION OF UNDERGROUND CONDUITS, MINUS THE PERMANENT DISTURBANCE ABOVE	27.98 AC.
TOTAL DISTURBED AREA FOR ALL OF SECTION 3 (INCLUDES MWD PORTION BELOW)	32.04 AC. = 1,395,862 SF
MINUS RESTORATION OF EXISTING DISTURBED AREA TO NATURAL STATE	3.42 AC. = 148,975 SF
TOTAL DISTURBED NET AREA	28.62 AC. = 1,246,887 SF

NEW DISTURBANCE CALCULATIONS IN MWD FEE PER THIS PLAN

PERMANENT DISTURBANCE 12' ROADS AND 20' x 20' TURBINE PADS	0.37 AC.
TEMPORARY DISTURBANCE FOR GRADING OF SLOPES, 22' ROADS, CRANE PADS, EXCESS MATERIAL DISPOSAL AREAS AND THE INSTALLATION OF UNDERGROUND CONDUITS, MINUS THE PERMANENT DISTURBANCE ABOVE	1.49 AC.
TOTAL DISTURBED AREA FOR MWD FEE PROPERTY	1.86 AC. = 81,022 SF

EXCESS MATERIAL IS TO BE PLACED WITHIN THE CONFINES OF THE DISPOSAL AREAS SHOWN ON SHEETS 6 THROUGH 9, AS DIRECTED BY THE ENGINEER. THE MATERIAL SHALL BE PLACED SO AS TO NOT BLOCK NATURAL DRAINAGE CHANNELS OR TO CREATE AREAS OF PONDING. EXCESS MATERIAL MAY ALSO BE USED FOR REPAIR OF ROADS AND PADS WITHIN THE PREVIOUSLY DISTURBED AREAS NEAR THE EXISTING WIND TURBINES AND ACCESS ROADS IN SECTION 3.

NOTE: EARTH SYSTEMS SOUTHWEST IS THE PROJECT GEOTECHNICAL ENGINEER. SLOPE STABILITY DETERMINATIONS AND COMPACTION TESTING SHALL BE PERFORMED BY EARTH SYSTEMS SOUTHWEST.

GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE COUNTY OF RIVERSIDE AND IN COMPLIANCE WITH THE SPECIFICATIONS AND RECOMMENDATIONS PRESENTED IN THE EARTH SYSTEMS SOUTHWEST GEOTECHNICAL REPORT AND ANALYSIS PRESENTED AS FOLLOWS:

- EARTH SYSTEMS CONSULTANTS SOUTHWEST, ENGINEERING GEOLOGY AND GEOTECHNICAL ENGINEERING REPORT, REPORT NO.: 99-02-710, DATED MARCH 2, 1999.
- EARTH SYSTEMS CONSULTANTS SOUTHWEST, SUPPLEMENT TO ENGINEERING GEOLOGY AND GEOTECHNICAL ENGINEERING REPORT, REPORT NO.: 99-04-733, DATED APRIL 19, 1999.
- EARTH SYSTEMS SOUTHWEST, REVISED UPDATE AND SUBSTANTIAL CONFORMANCE TO ENGINEERING GEOLOGY AND GEOTECHNICAL ENGINEERING REPORT AND SUPPLEMENT WITH REVISED SITE PLAN REVIEW, WECS 71, ALTA MESA PROJECT - PHASE IV, WHITEWATER AREA OF RIVERSIDE COUNTY, CALIFORNIA, FILE NO.: 07055-07, DOCUMENT NO.: 05-07-316R, DATED AUGUST 24, 2005.

BLENDED AND PLACEMENT OF ORGANIC TOP SOIL, IF ANY, WILL BE DETERMINED IN THE FIELD BY THE SOILS ENGINEER.

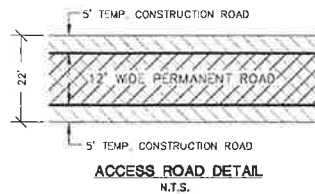
CIVIL ENGINEER:
PATRICK AND HENDERSON, INC.
1965 AIRPORT DRIVE
BAKERSFIELD, CA 93308
PHONE NUMBER: (661) 391-9854

SOILS ENGINEER:
EARTH SYSTEMS SOUTHWEST
CONTACT: SHELTON STRINGER
79-818 COUNTRY CLUB DRIVE
BERMUDA DUNES, CA 92203-1244
PHONE NUMBER: (760) 345-1588

OWNER:
MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202
PHONE NUMBER: (513) 562-1280

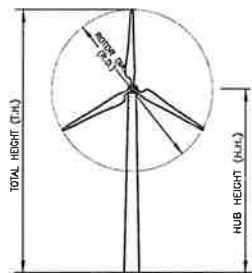
SECTION 3 CONTAINS 638.69 ACRES.
8% OF 638.69 = 51.10 ACRES ALLOWABLE DISTURBANCE.

NOTE: ANY DISTURBANCE AREAS SHOWN DO NOT INCLUDE THE TEMPORARY DISTURBANCE FOR INSTALLATION OF UNDERGROUND ELECTRICAL CONDUITS THAT WILL BE INSTALLED OUTSIDE THE BOUNDARIES OF THIS GRADING PLAN AND WITHIN THE PREVIOUSLY DISTURBED AREAS NEAR THE EXISTING WIND TURBINES AND ACCESS ROADS OR CONDUIT TRENCHES THAT LEAD TO THEM. IT IS ESTIMATED THAT THE LINEAR FOOTAGE OF NEW ELECTRICAL CONDUIT WITHIN THE PREVIOUSLY DISTURBED AREAS ARE 8,920 LINEAR FEET OF 24" WIDE TRENCH, OR APPROXIMATELY 17,840 SQUARE FEET WHICH EQUALS 0.41 ACRES.

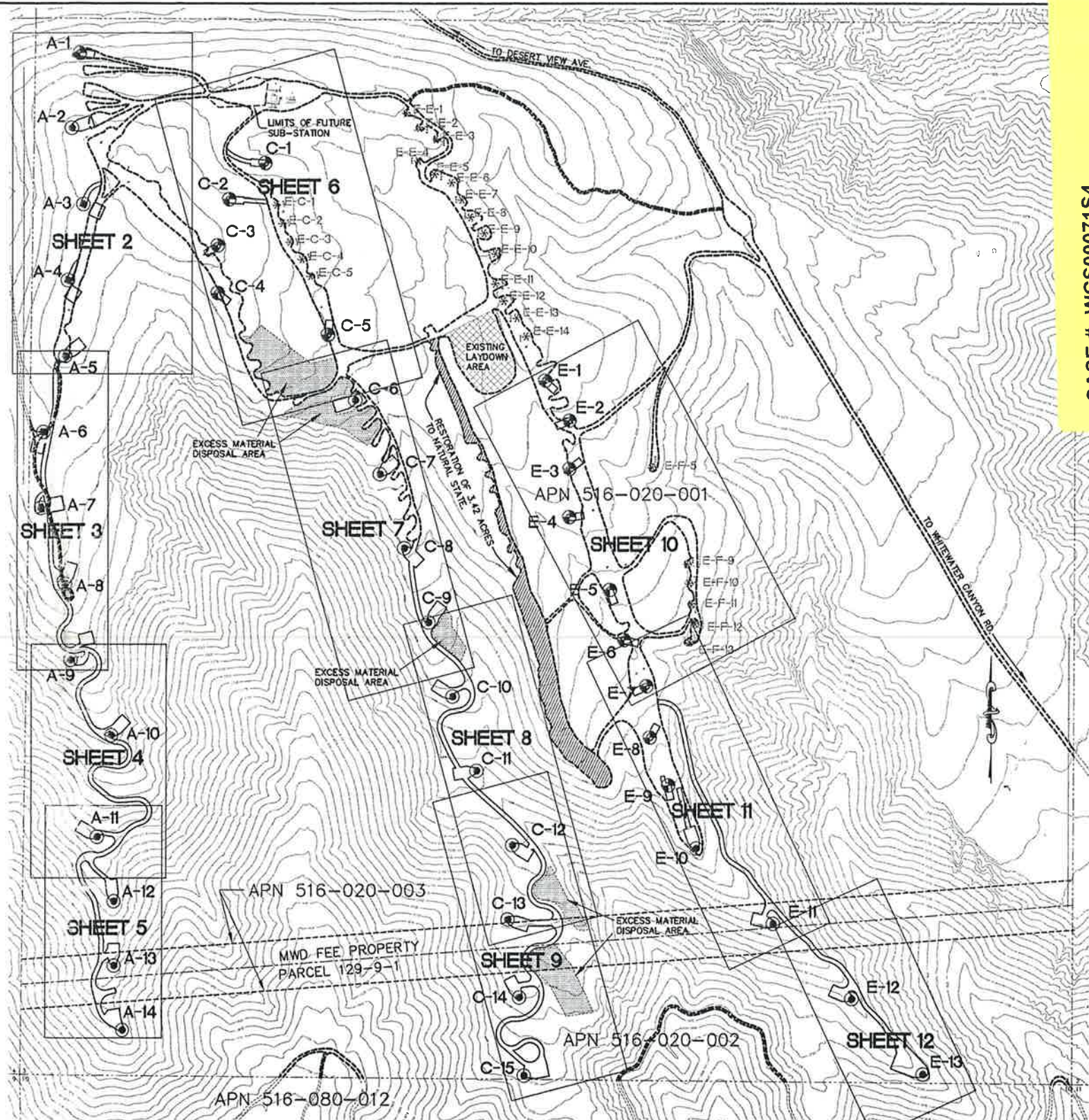
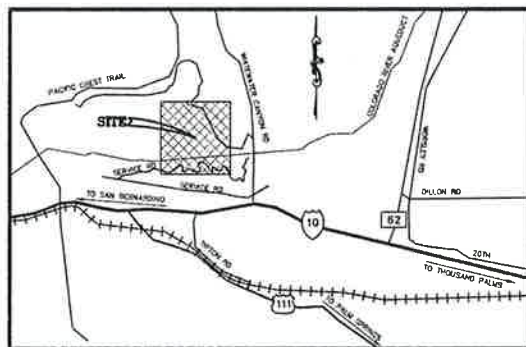


LEGEND

- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
- PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
- EXISTING DANWIN TURBINE (ROTOR=24M, HUB=22.9M)
- EXISTING VESTAS V-27 TURBINE (ROTOR=27M, HUB=50M)
- DT DRAIN TURN-OUT
- SECTION LINE
- MWD PROPERTY BOUNDARY
- CENTERLINE OF AQUEDUCT
- SETBACK LINE
- EXISTING TRAVELED AREAS



MANUFACTURER	CAPACITY	NAME	HUB HEIGHT (H.H.) METERS / FEET	ROTOR DIAMETER (R.D.) METERS / FEET	TOTAL HEIGHT (T.H.) METERS / FEET
GAMESA, NORDEX, VESTAS OR EQUAL	2.0-2.5 MW	G/N/V-80	80/198.9	80/262.5	100/328.1
GAMESA, NORDEX, VESTAS OR EQUAL	850 KW	G/N/V-52	44/144.4	52/170.6	70/229.7



15 52 METER TURBINES
27 80 METER TURBINES

PREPARED AND APPROVED FOR CONSTRUCTION BY:

ALLAN P. HENDERSON
R.C.E. 25244
EXP. 12/31/11

WDID No. 733C352442

BGR080214

GRADING PLAN INDEX SHEET

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BAKERSFIELD, CALIFORNIA 93308
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Foundation & Structural Engineering
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DATE:	DATE:	DATE:	DATE:
06/08/10			
SCALE:	AS SHOWN		
DRAWN BY:	RGS		
APPROVED:			

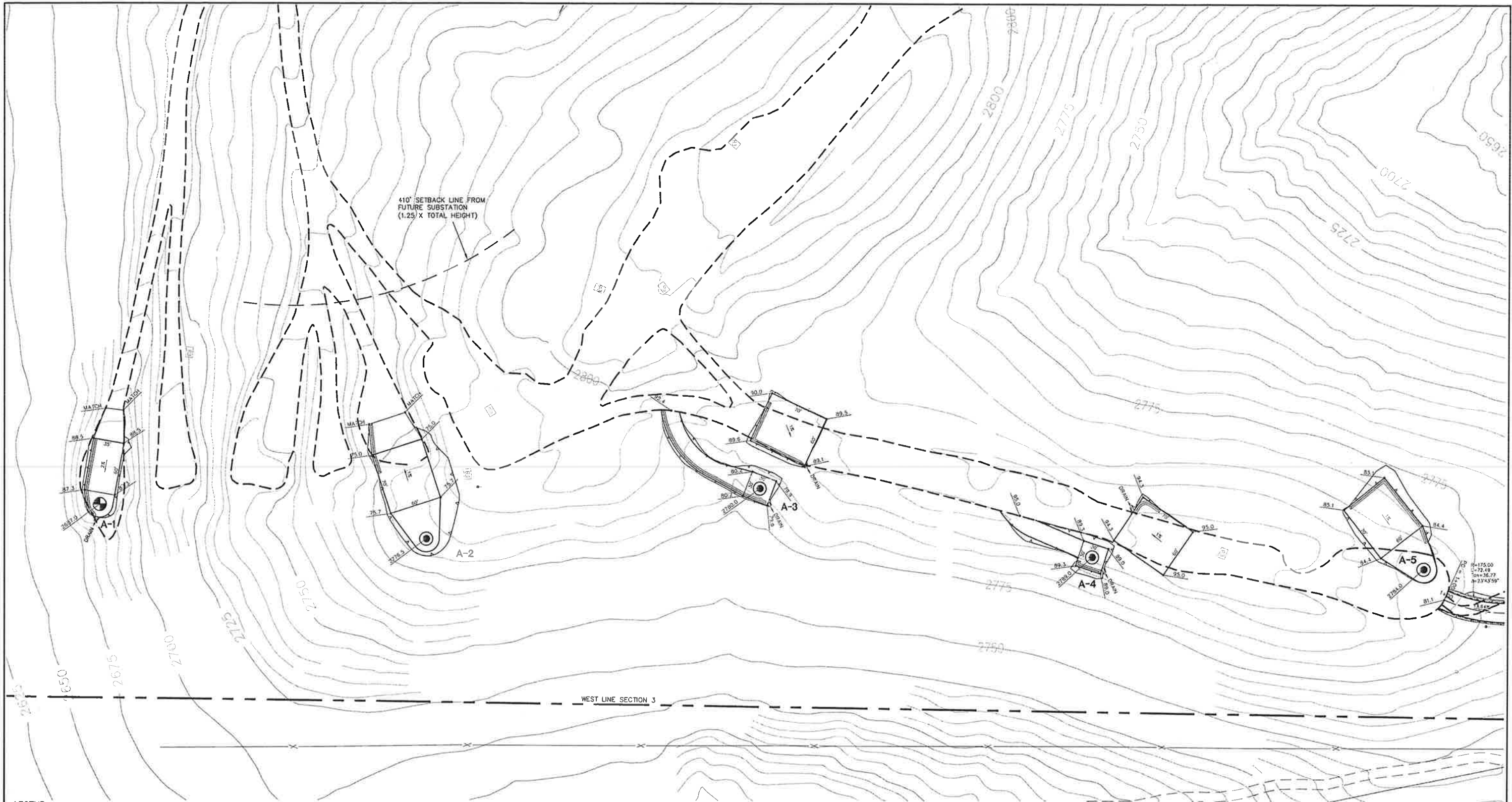
MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

REVISED WECS 71
GRADING PLAN FOR ALTA MESA IV
12501 WHITE WATER CANYON ROAD
WHITE WATER, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET
1
14 SHEETS
JOB NO.: 01-084

CASE #: WCS00071S4
EXHIBIT D-1 THROUGH D-14, AMD NO. 1
DATE: 7-6-2010
PLANNER: J. OLIVAS

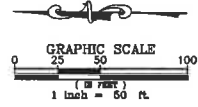
1/11/2011 107



410' SETBACK LINE FROM FUTURE SUBSTATION (1.25 X TOTAL HEIGHT)

WEST LINE SECTION 3

- LEGEND**
- ⊙ PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
 - ⊕ PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
 - ⊗ EXISTING DANWIN TURBINE (ROTOR=24M, HUB=22.9M)
 - ⊘ EXISTING VESTAS V-27 TURBINE (ROTOR=27M, HUB=50M)
 - DT DRAIN TURN-OUT
 - SECTION LINE
 - MWD PROPERTY BOUNDARY
 - CENTERLINE OF AQUEDUCT
 - SETBACK LINE
 - EXISTING TRAVELED AREAS



NOTE: ALL CUT AND FILL SLOPES SHALL BE GRADED NO STEEPER THAN 1.5 TO 1 (H/V).

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FAX: (861) 391-9926

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DATE:	06/08/10	DATE:		BY:		PREPARED FOR:	
SCALE:	AS SHOWN					MARK TECHNOLOGIES CORPORATION	
DRAWN BY:	RGS					250 E. 5TH STREET, SUITE 1500	
APPROVED:						CINCINNATI, OH 45202	

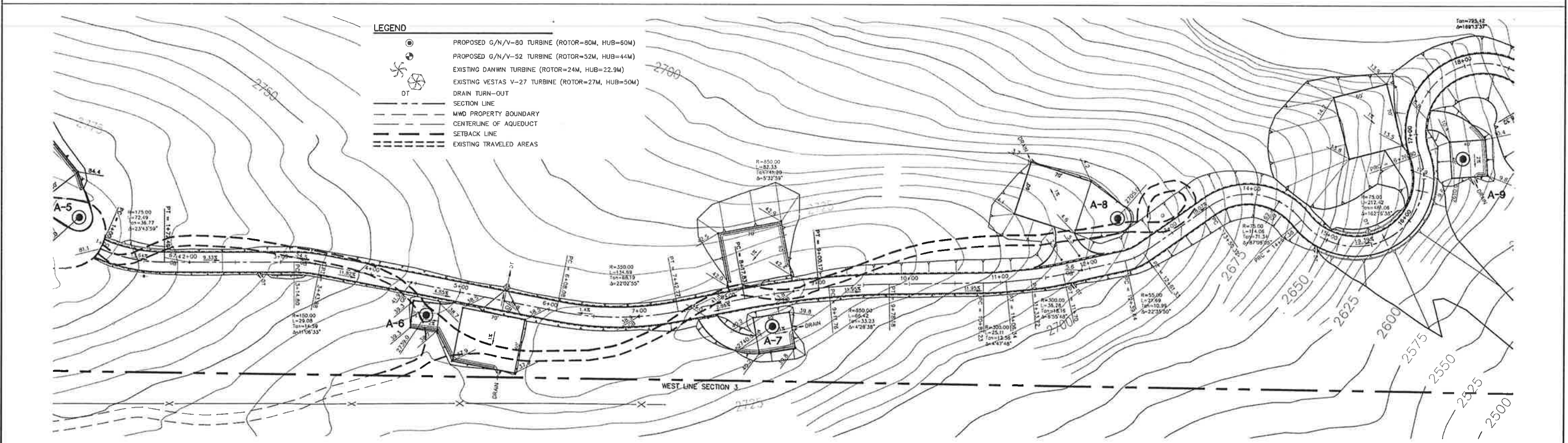
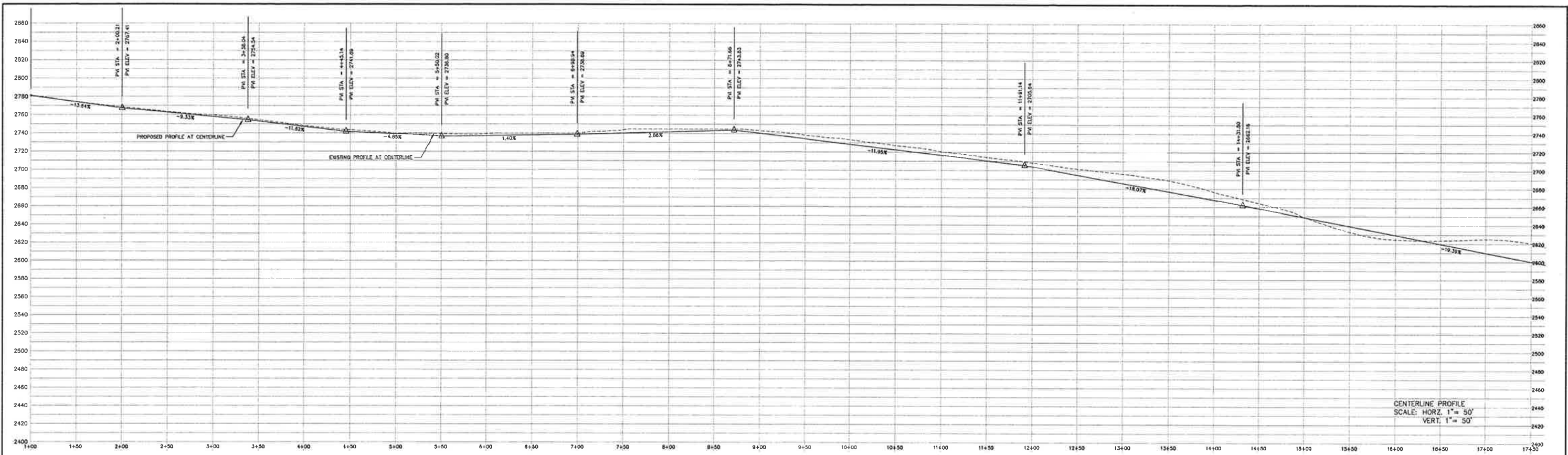
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REVISIONS

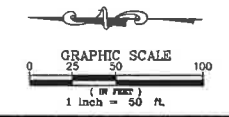
DESCRIPTION:

REVISED WECS 71
ROW "A"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
2
14 SHEETS
JOB NO.: 01-084



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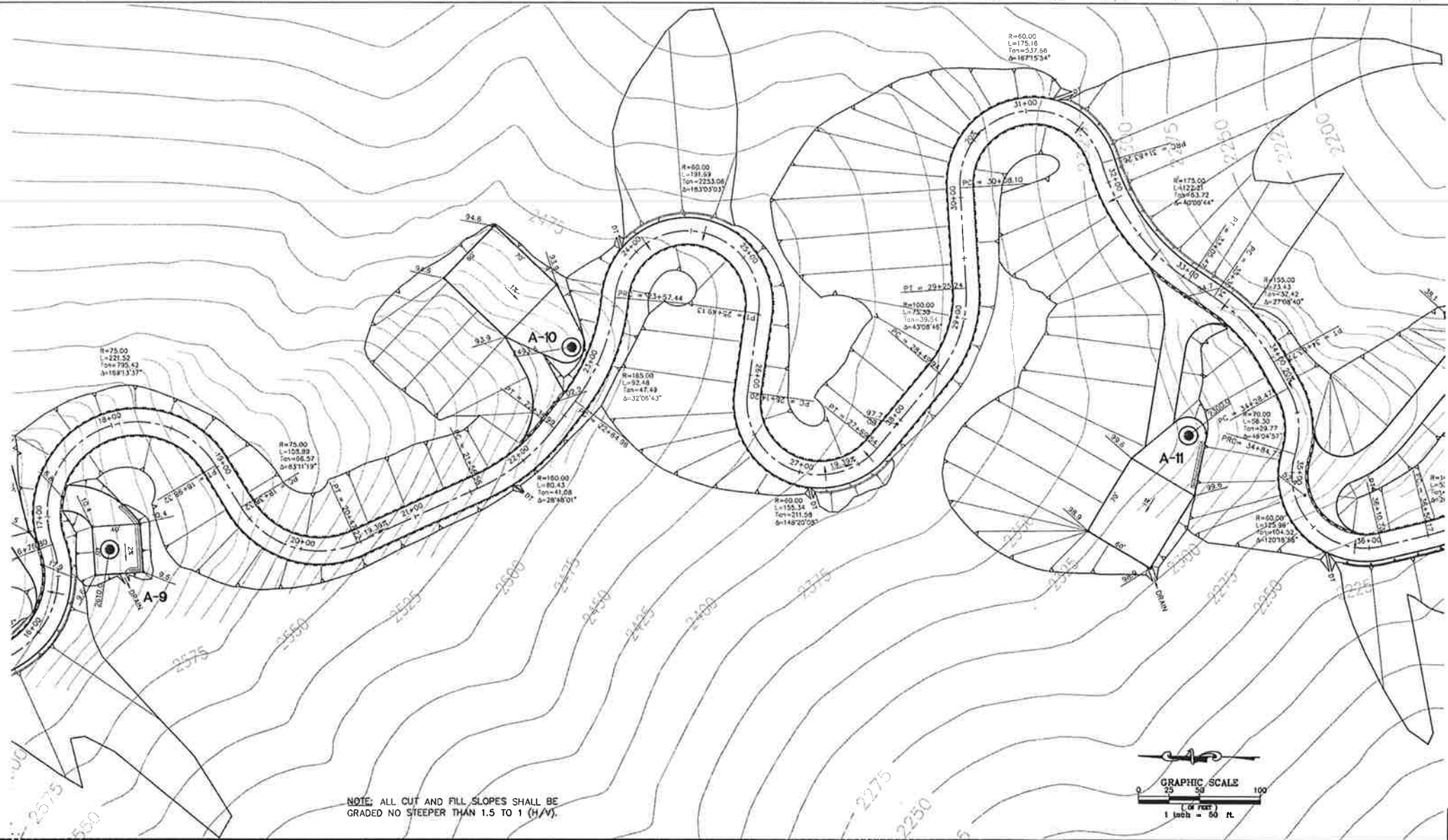
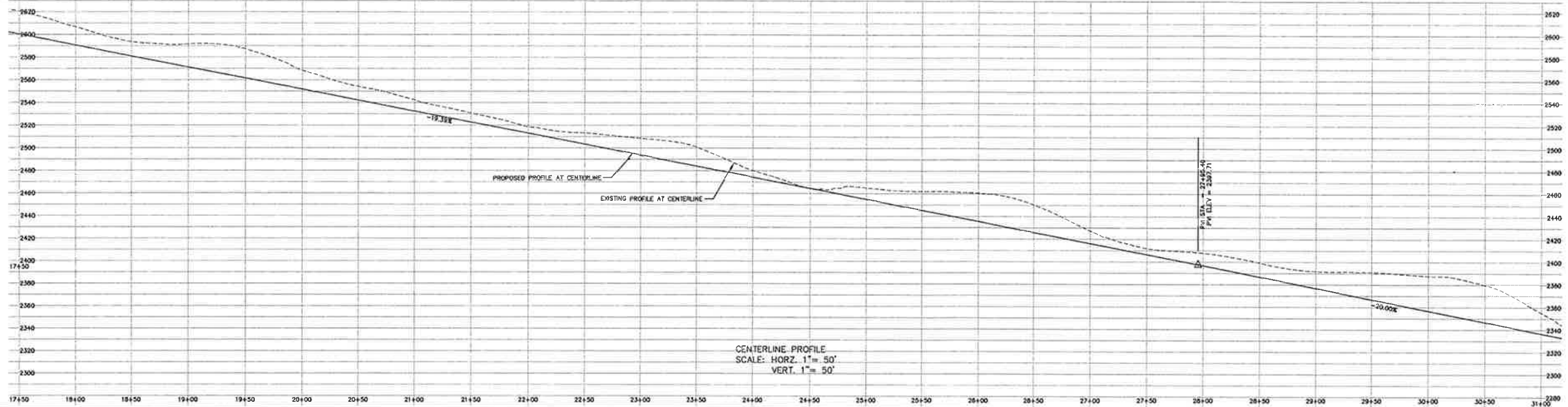
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DRAWN BY:	RGS	BY:	
APPROVED:		PREPARED FOR:	

MARK TECHNOLOGIES CORPORATION
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 SEC 3 T. 3S., R 3E., SBB&M

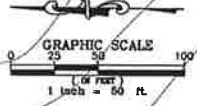
SHEET: 3
 14 SHEETS
 JOB NO.: 01-084



LEGEND

- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
- PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
- EXISTING DANWIN TURBINE (ROTOR=24M, HUB=22.9M)
- EXISTING VESTAS V-27 TURBINE (ROTOR=27M, HUB=50M)
- DRAIN TURN-OUT
- SECTION LINE
- MWD PROPERTY BOUNDARY
- CENTERLINE OF AQUEDUCT
- SETBACK LINE
- EXISTING TRAVELED AREAS

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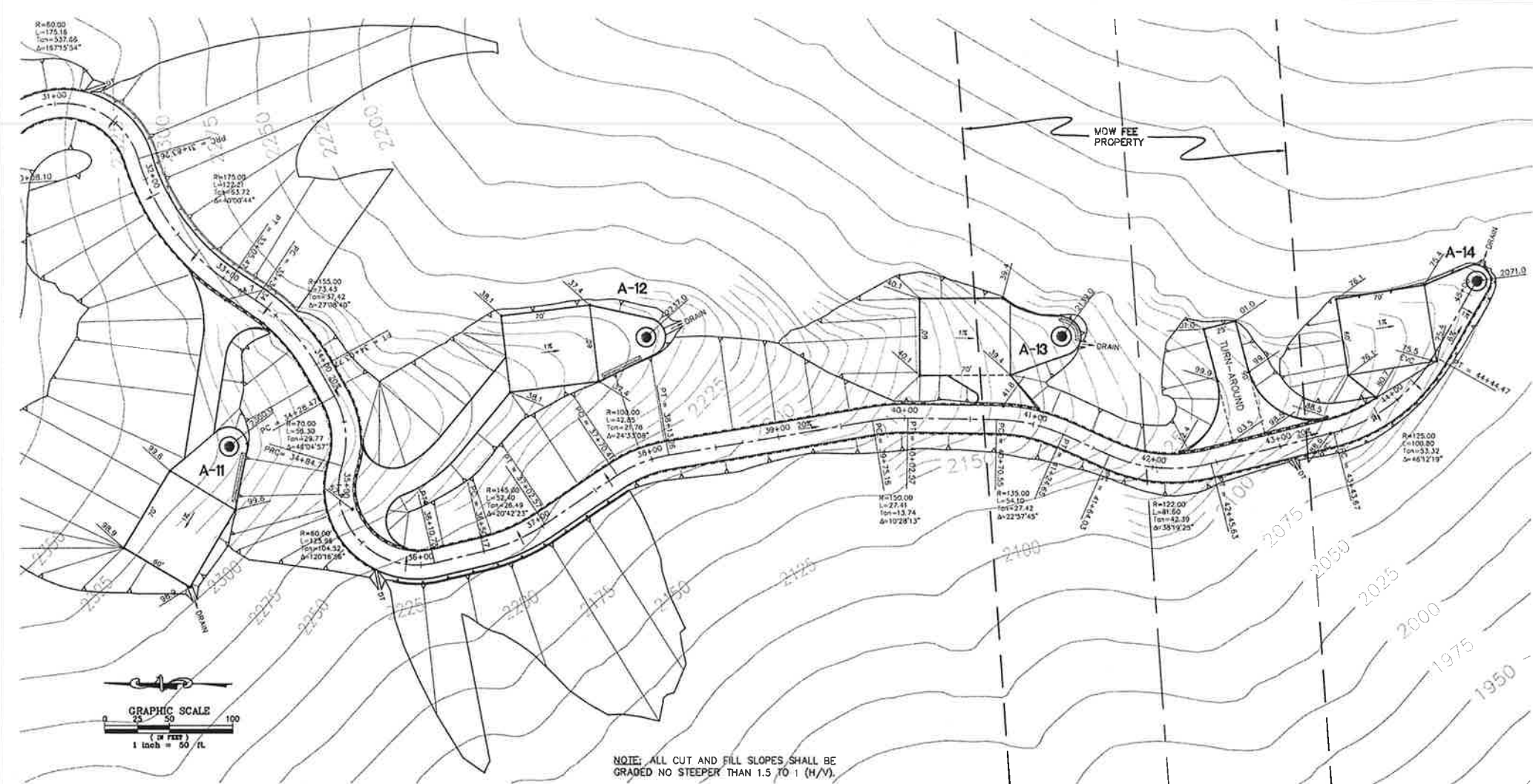
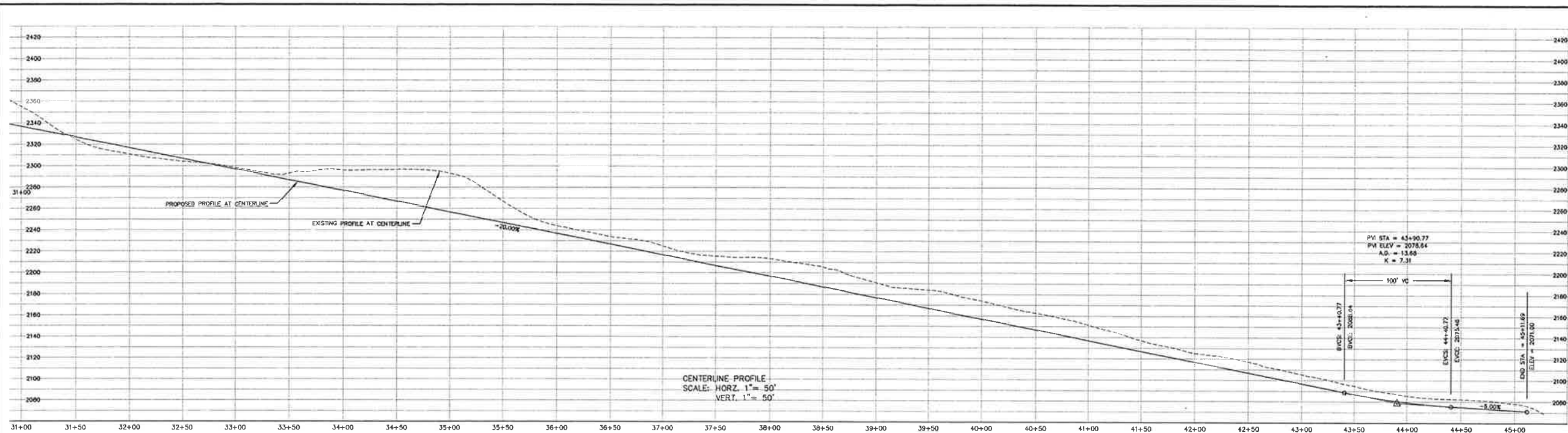
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Land Surveying
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250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION:
REVISED WECS 71
ROW "A"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
4
14 SHEETS
JOB NO.: 01-084



- LEGEND**
- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
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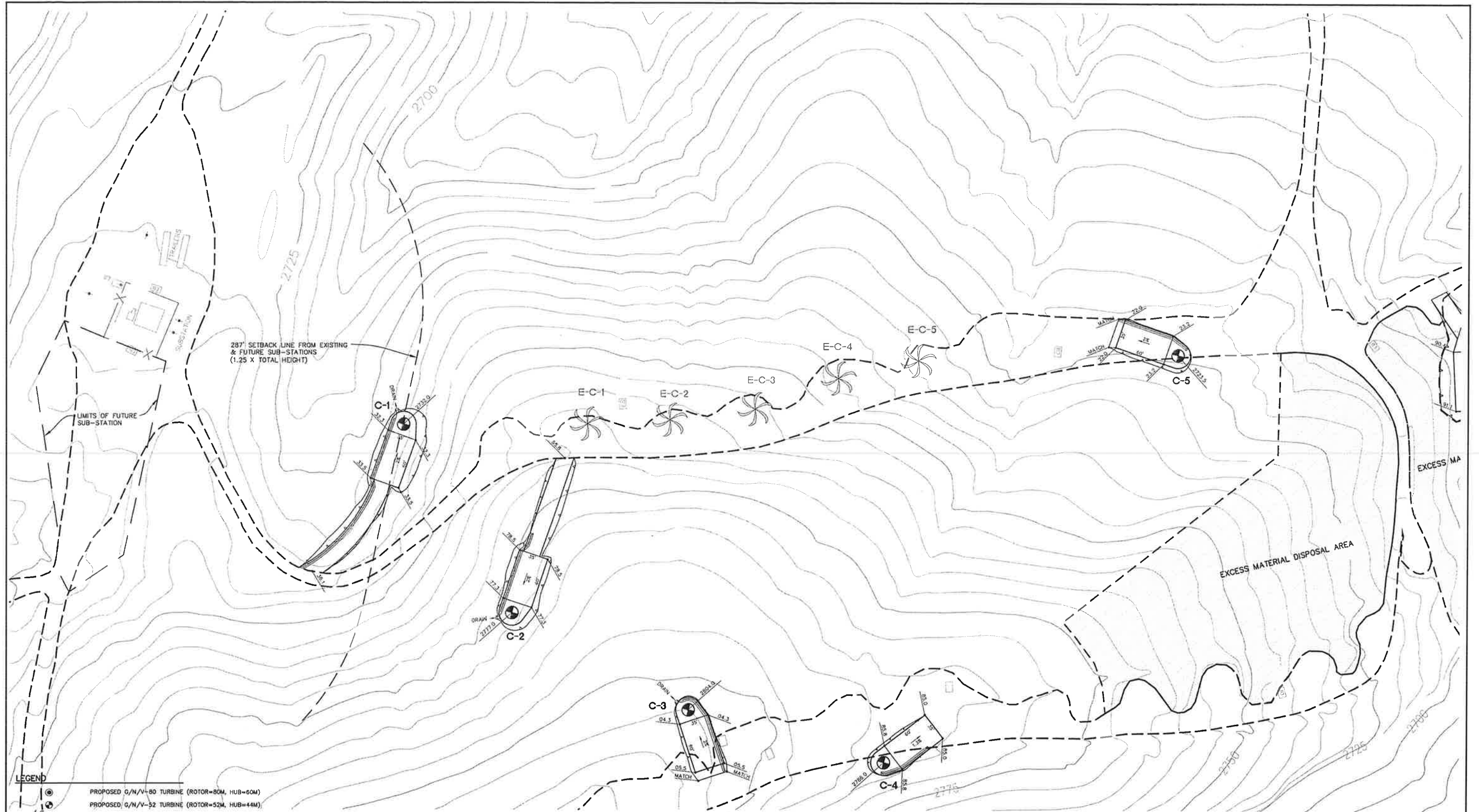
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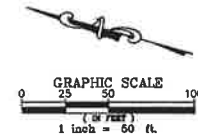
SHEET:
5
14 SHEETS
JOB NO.: 01-084



287' SETBACK LINE FROM EXISTING & FUTURE SUB-STATIONS (1.25 X TOTAL HEIGHT)

EXCESS MATERIAL DISPOSAL AREA

- LEGEND**
- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
 - PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
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


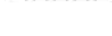



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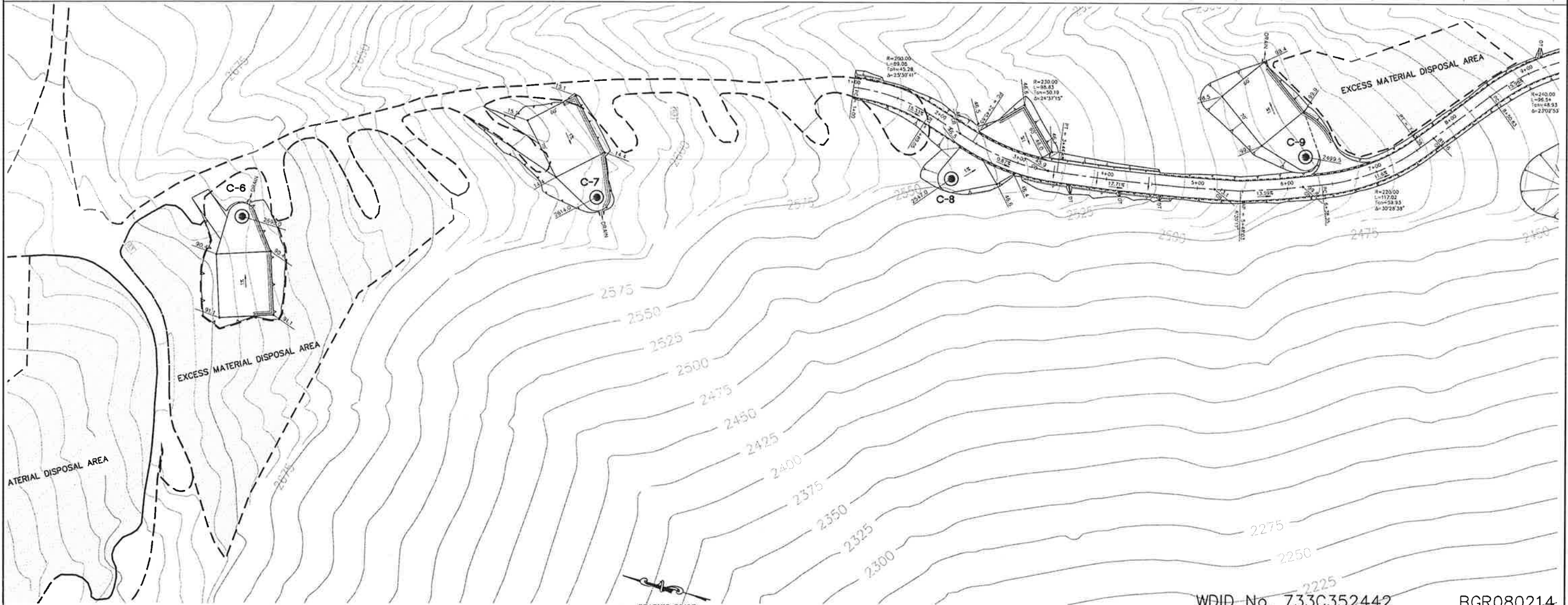
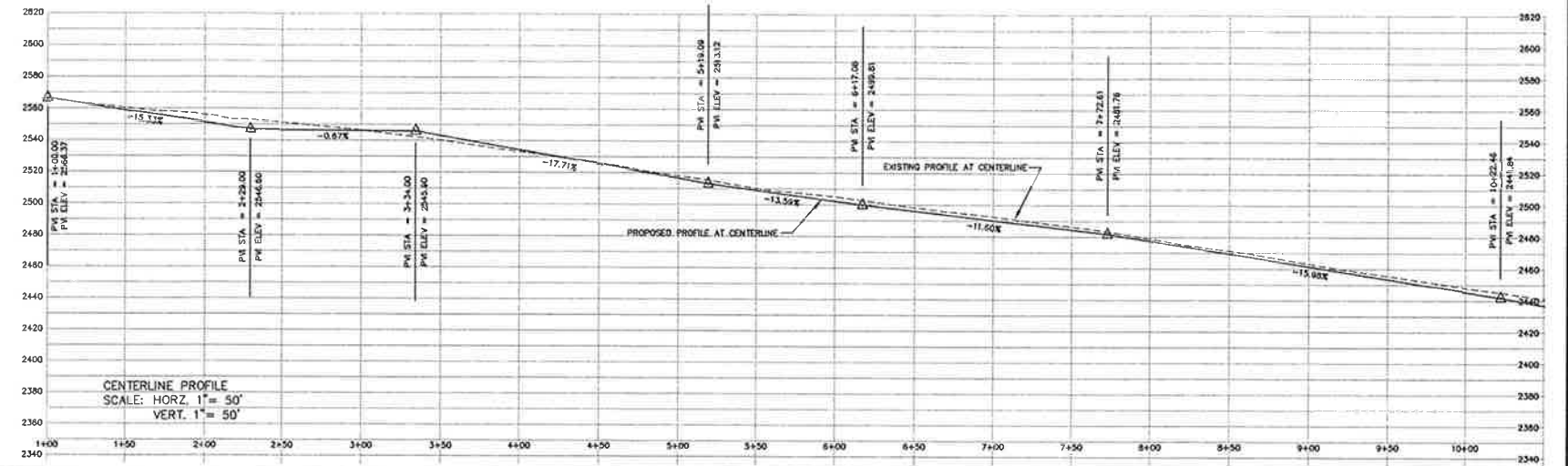
PREPARED FOR:
 MARK TECHNOLOGIES CORPORATION
 250 E. 5TH STREET, SUITE 1500
 CINCINNATI, OH 45202

DESCRIPTION:
 REVISED WECS 71
 ROW "C"
 FOR ALTA MESA IV
 PALM SPRINGS, CALIFORNIA
 SEC 3 T. 3S., R 3E., SBB&M

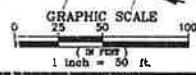
SHEET:
6
 14 SHEETS
 JOB NO.: 01-084

LEGEND

-  PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
-  PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
-  EXISTING DANWIN TURBINE (ROTOR=24M, HUB=22.9M)
-  EXISTING VESTAS V-27 TURBINE (ROTOR=27M, HUB=50M)
-  DRAIN TURN-OUT
-  SECTION LINE
-  MWD PROPERTY BOUNDARY
-  CENTERLINE OF AQUEDUCT
-  SETBACK LINE
-  EXISTING TRAVELED AREAS



NOTE: ALL CUT AND FILL SLOPES SHALL BE GRADED NO STEEPER THAN 1.5 TO 1 (H/V).



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GRADING PLAN

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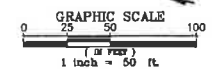
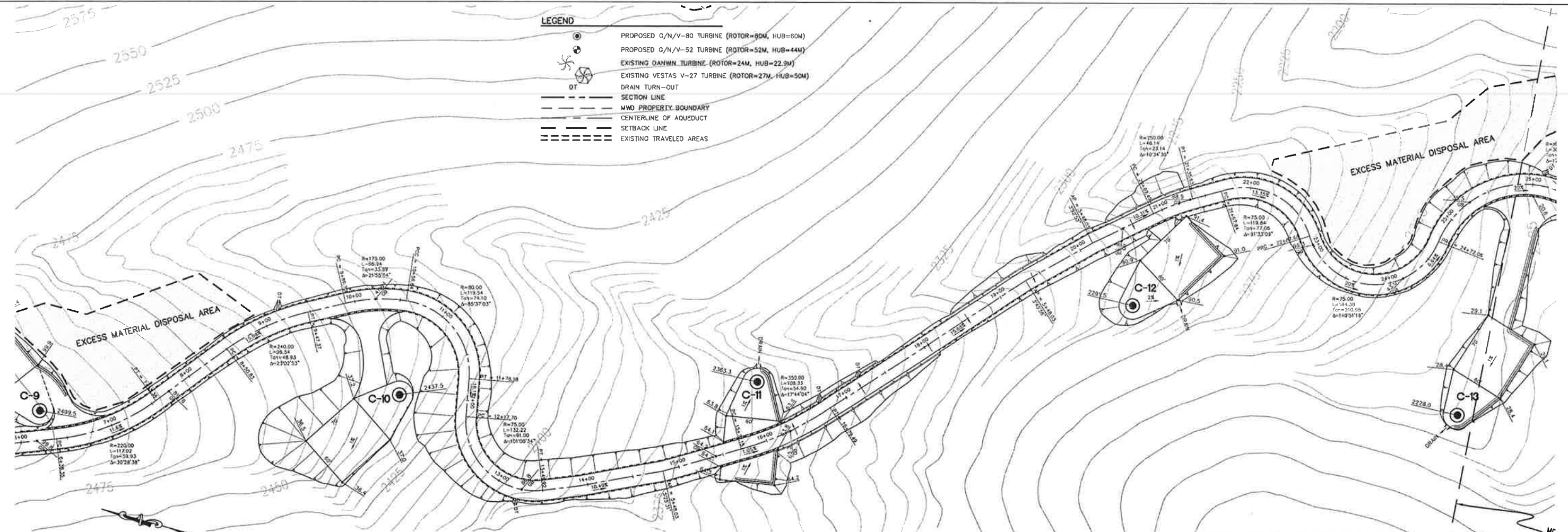
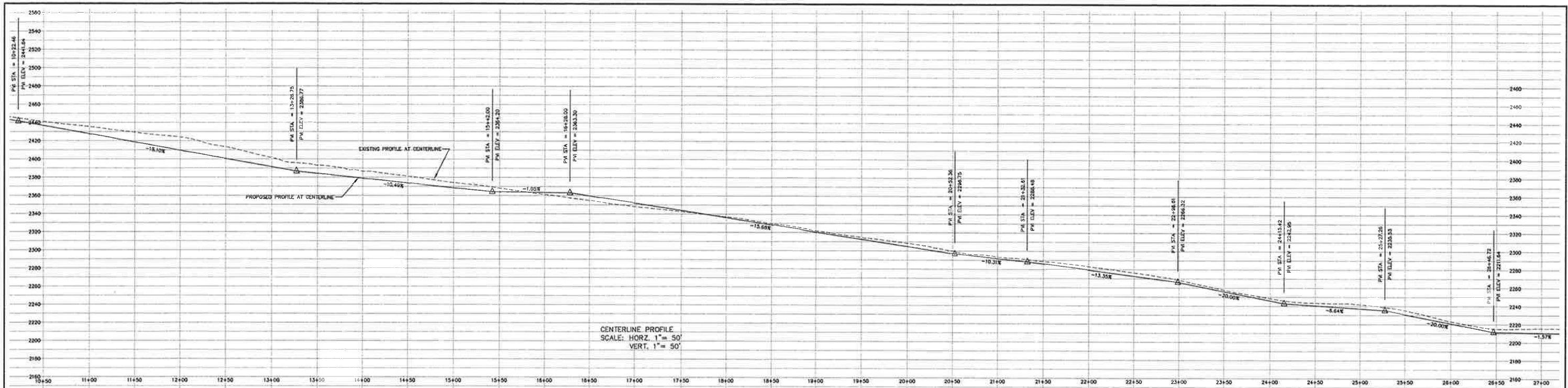
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APPROVED:		BY:	

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250 E. 5TH STREET, SUITE 1500
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ROW "C"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
7
14 SHEETS
JOB NO.: 01-084



NOTE: ALL CUT AND FILL SLOPES SHALL BE GRADED NO STEEPER THAN 1.5 TO 1 (H/V).

WDID No. 733C352442

BGR080214

GRADING PLAN

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CIVIL & GEOTECHNICAL ENGINEERING

1985 AIRPORT DRIVE
BAKERSFIELD, CALIFORNIA 93308
(881) 391-9854
FAX: (881) 391-9926

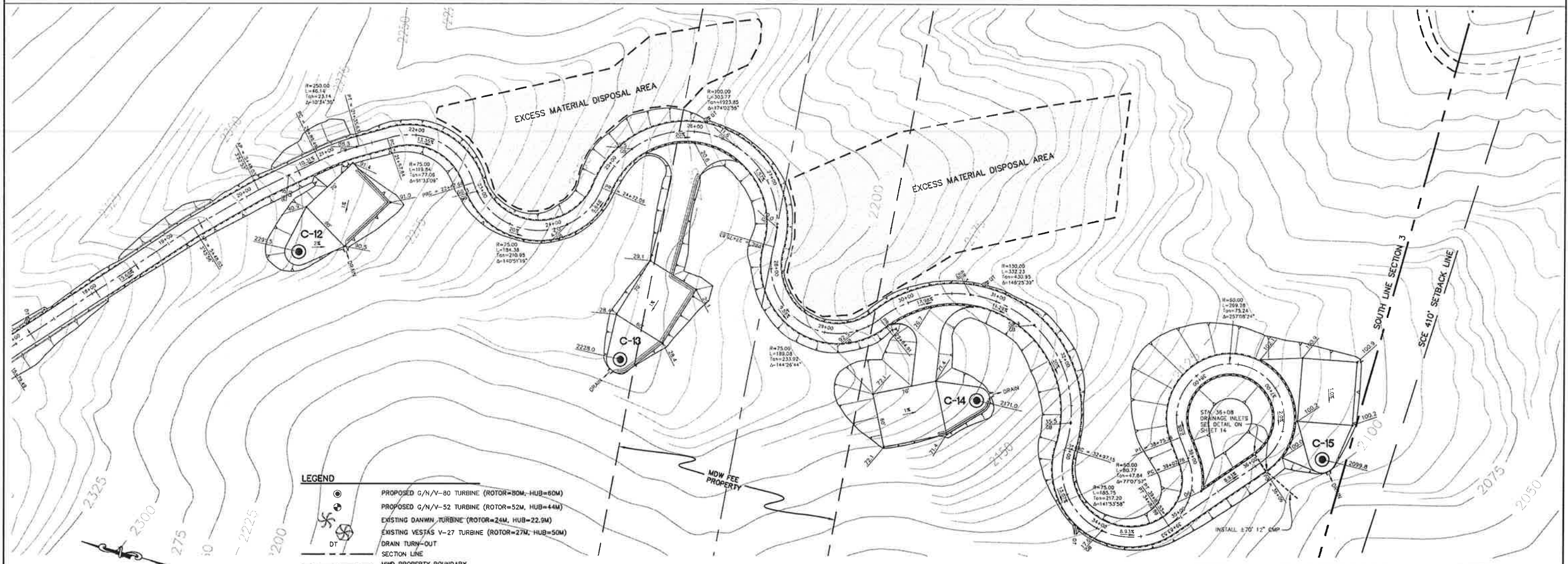
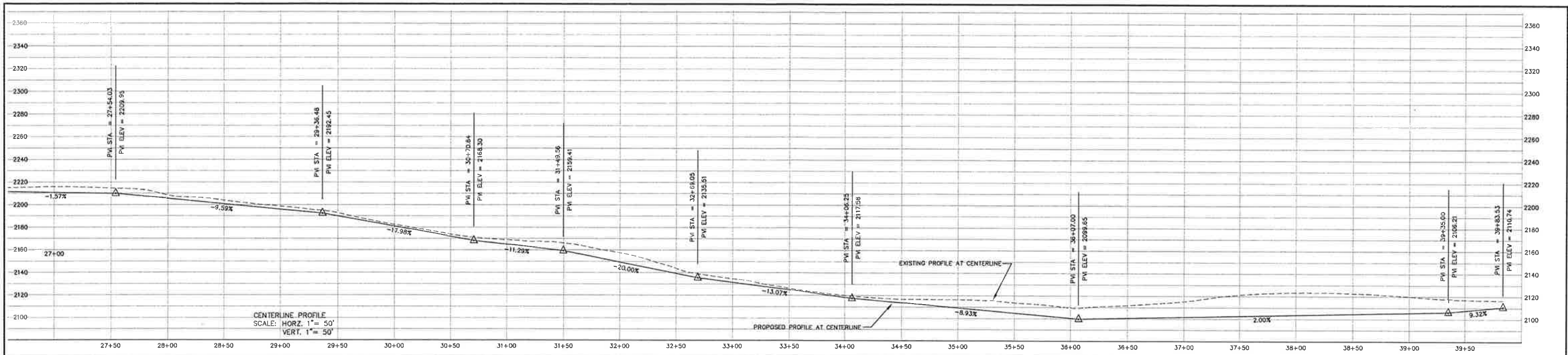
Consulting Engineers
Foundation & Structural Engineering
Land Planning
Land Surveying
Soils Testing

DATE:	06/08/10	DATE:		REVISION DESCRIPTION:		BY:	
SCALE:	AS SHOWN						
DRAWN BY:	RGS						
APPROVED:							

PREPARED FOR:
MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION:
REVISED WECS 71
ROW "C"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
8
14 SHEETS
JOB NO.: 01-084



WDID No. 733C352442 BGR080214
GRADING PLAN

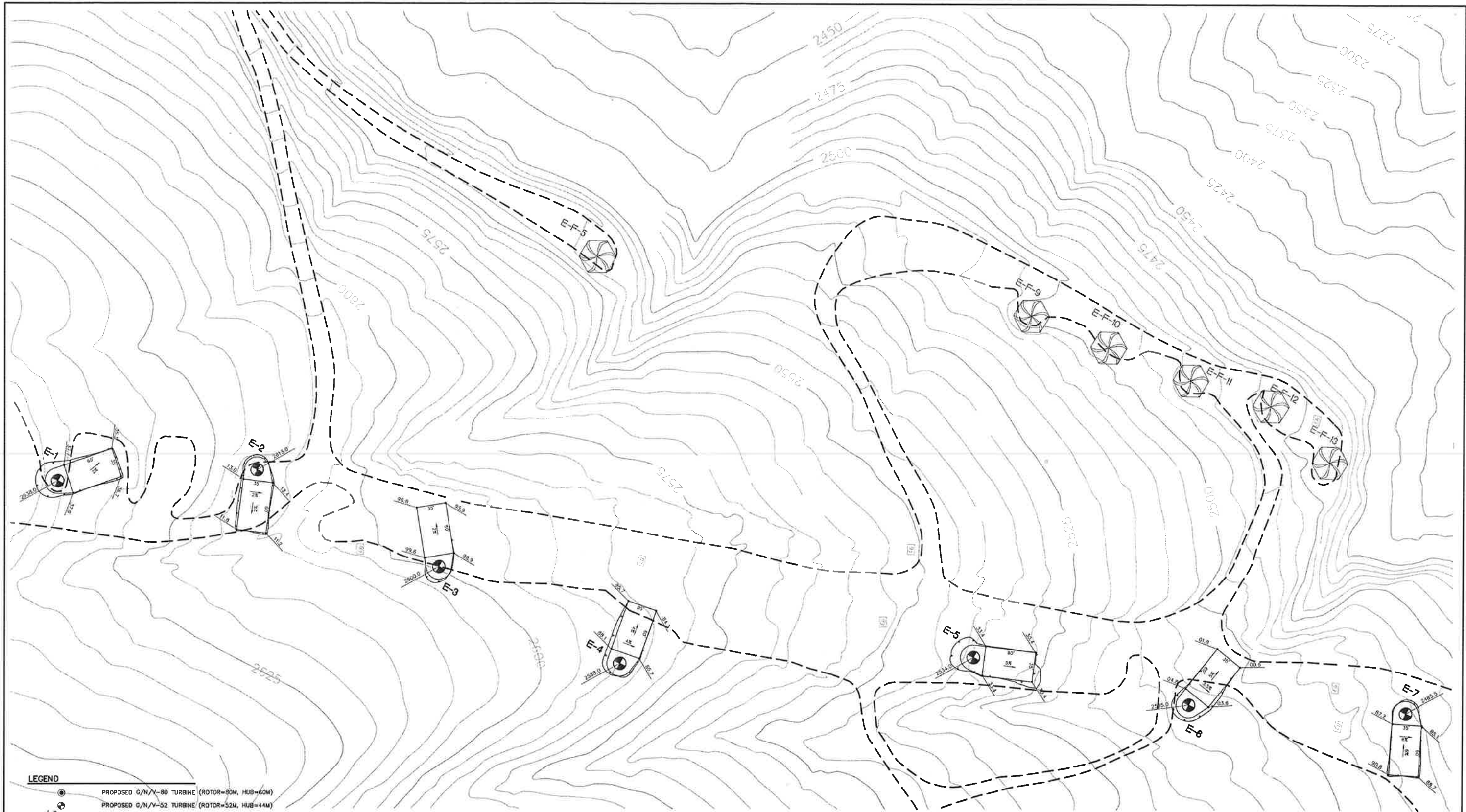
PATRICK & HENDERSON INC.
CIVIL & GEOTECHNICAL ENGINEERING
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(661) 391-9854
FAX: (661) 391-9926

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Land Planning
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Soils Testing

DATE:	06/08/10	DATE:	
SCALE:	AS SHOWN	REVISION:	
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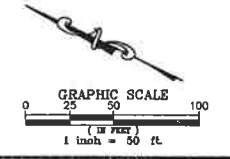
MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION: REVISED WECS 71 ROW "C" FOR ALTA MESA IV PALM SPRINGS, CALIFORNIA SEC 3 T. 3S., R 3E., SBB&M
SHEET: 9
14 SHEETS
JOB NO.: 01-084



- LEGEND**
- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
 - PROPOSED G/N/V-52 TURBINE (ROTOR=52M, HUB=44M)
 - EXISTING DANWIN TURBINE (ROTOR=24M, HUB=22.9M)
 - EXISTING VESTAS V-27 TURBINE (ROTOR=27M, HUB=50M)
 - DT DRAIN TURN-OUT
 - SECTION LINE
 - MWD PROPERTY BOUNDARY
 - CENTERLINE OF AQUEDUCT
 - SETBACK LINE
 - EXISTING TRAVELED AREAS

NOTE: ALL CUT AND FILL SLOPES SHALL BE GRADED NO STEEPER THAN 1.5 TO 1 (H/V)



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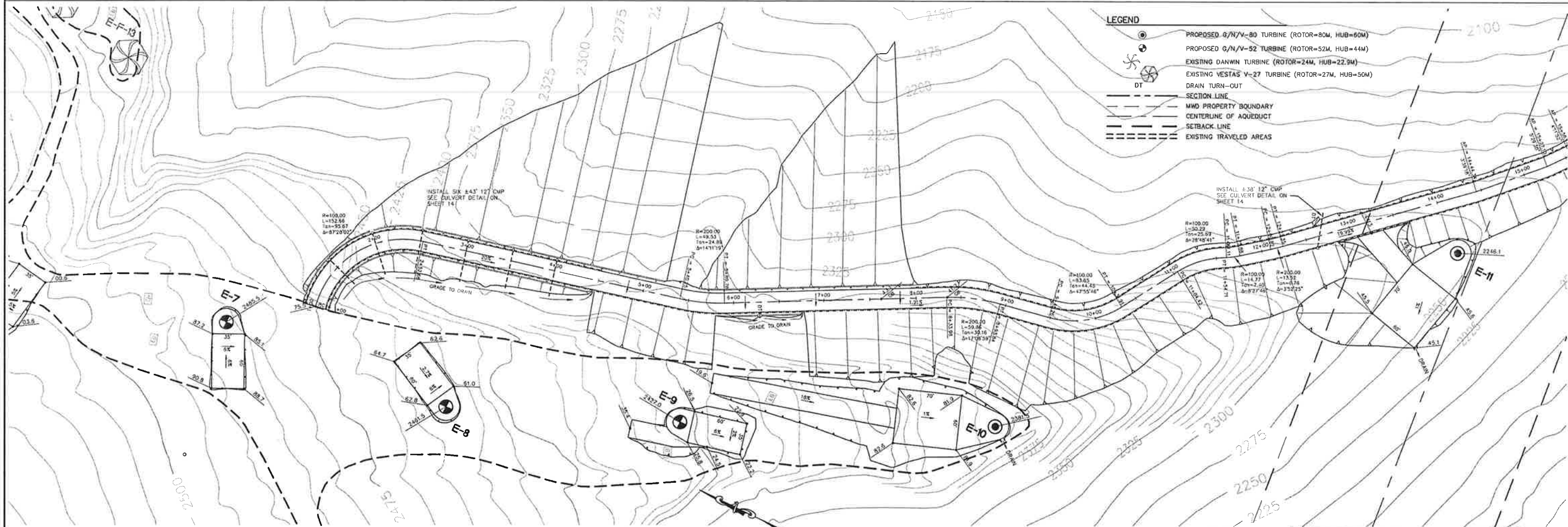
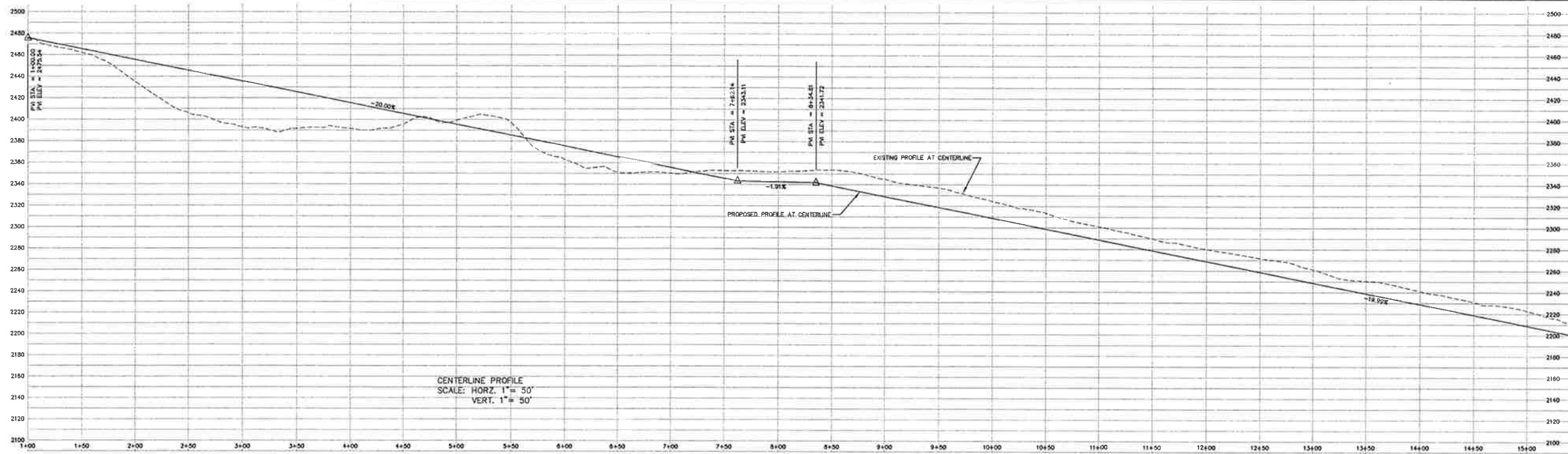
DATE:	06/08/10	DATE:		BY:		PREPARED FOR:	
SCALE:	AS SHOWN	REVISION DESCRIPTION:				MARK TECHNOLOGIES CORPORATION	
DRAWN BY:	RGS					250 E. 5TH STREET, SUITE 1500	
APPROVED:						CINCINNATI, OH 45202	

REVISION DESCRIPTION:

DESCRIPTION:

REVISED WECS 71
ROW "E"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
10
14 SHEETS
JOB NO.: 01-084



WDID No. 733C352442 BGR080214

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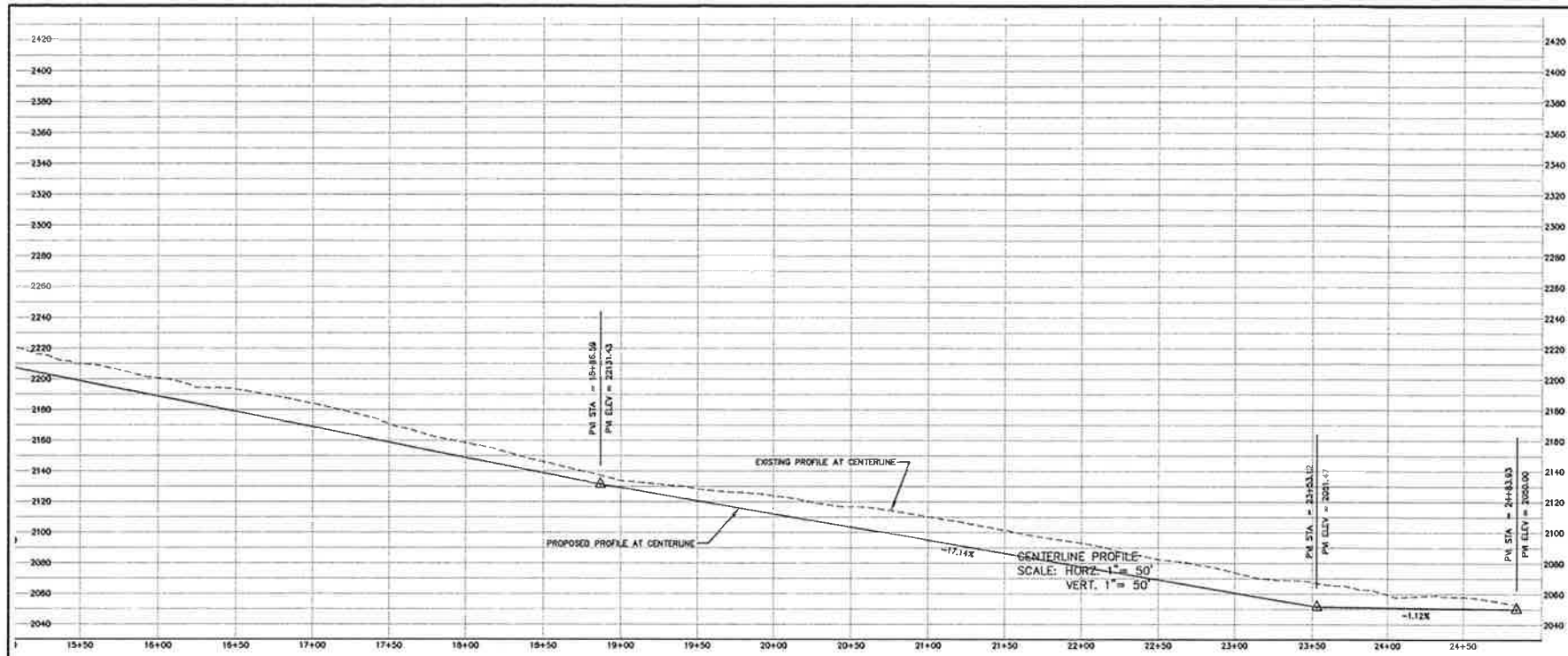
PATRICK & HENDERSON INC.
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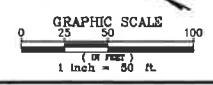
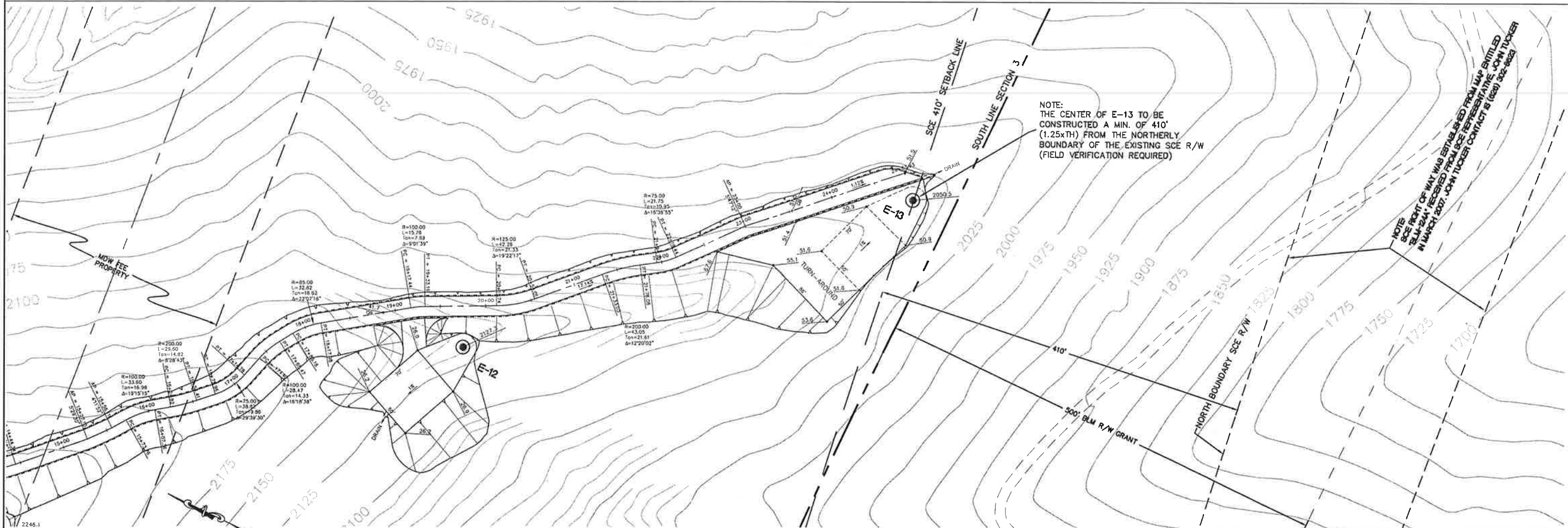
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SCALE:	AS SHOWN					MARK TECHNOLOGIES CORPORATION 250 E. 5TH STREET, SUITE 1500 CINCINNATI, OH 45202
DRAWN BY:	RGS					
APPROVED:						

DESCRIPTION:
REVISED WECS 71
ROW "E"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET: 11
14 SHEETS
JOB NO.: 01-084



- LEGEND**
- PROPOSED G/N/V-80 TURBINE (ROTOR=80M, HUB=60M)
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NOTE: ALL CUT AND FILL SLOPES SHALL BE GRADED NO STEEPER THAN 1.5 TO 1 (H/V).

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GRADING PLAN

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DATE:	06/08/10	DATE:		BY:		PREPARED FOR:	
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DRAWN BY:	RGS						
APPROVED:							

MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION:
REVISED WECS 71
ROW "E"
FOR ALTA MESA IV
PALM SPRINGS, CALIFORNIA
SEC 3 T. 3S., R 3E., SBB&M

SHEET:
12
14 SHEETS
JOB NO.: 01-084

DEPARTMENT OF BUILDING AND SAFETY
COUNTY OF RIVERSIDE
GRADING NOTES (2007 CBC)

GENERAL

- All grading shall conform to the 2007 California Building Code Chapter 18, Appendix Chapter-J and section 1704.7 as amended by Ord. 457.
- All property corners shall be clearly delineated in the field prior to commencement of any construction/grading.
- All work under this grading permit shall be limited to work within the property lines. All work within the road Right-of-Way will require separate plans and a separate review/approval (permit) from the Transportation Department.
- Grading shall be done under the supervision of a soils engineer in conformance with recommendations of the preliminary soils investigation by Earth Systems Southwest dated March 2, 1998.
- Compacted fill to support any structures shall comply with section 1803.5. Projects without preliminary soils report shall have detailed specifications satisfying the requirements in section 1803.5 prepared by the EOR.
- The contractor shall notify the Building and Safety Department at least 24 hours in advance to request final lot grade and drainage inspection. This inspection must be approved prior to building permit final inspection for each lot.
- The contractor shall notify Underground Service Alert, two days before digging at 1-800-422-4133.

CUT / FILL

- Maximum cut and fill slope = 2:1, except as provided by note 10 below.
- No fill shall be placed on existing ground until the ground has been cleared of weeds, debris, topsoil and other deleterious material. Fills should be placed in thin lifts (8-inch max. or as recommended in soils report), compacted and tested on grading process until final grades are attained. All fills on slopes steeper than 5 to 1 (H/V) and a height greater than 5 feet shall be keyed and benched into firm natural soil for full support. The bench under the toe must be 10 feet wide min.
- The slope stability for cut and fill slopes over 30' in vertical height, or slopes steeper than 2:1 must be verified with a factor of safety of at least 1.5.
- No rock or similar irradicable material with a maximum dimension greater than 12 inches shall be buried or placed in fills closer than 10 feet to the finished grade.

DRAINAGE AND EROSION / DUST CONTROL

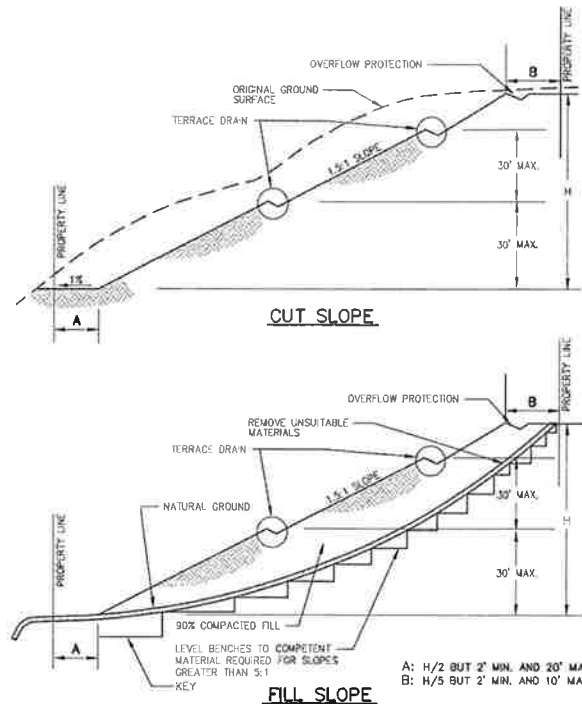
- Drainage across the property line shall not exceed that which existed prior to grading. Excess or concentrated drainage shall be contained on site or directed to an approved drainage facility.
- Provide a slope interceptor drain along the top of cut slopes where the drainage path is greater than 40 feet towards the cut slope.
- Provide 5' wide by 1' high berm along the top of all fill slopes steeper than 3:1.
- The ground immediately adjacent to the building foundation shall be sloped away with 2% min. for a min. distance of 10 horizontal feet. Seals within 10 feet from building shall have 2% minimum slope.
- No obstruction of natural water courses shall be permitted.
- During rough grading operations and prior to construction of permanent drainage structures, temporary drainage control (Best Management Practices, BMPs) shall be provided to prevent ponding water and damage to adjacent properties.
- Dust shall be controlled by watering or other approved methods.
- All existing drainage courses on the project site must continue to function. Protective measures and temporary drainage provisions must be used to protect adjoining properties during grading operations.
- For slopes 3 to 1 (H/V) or steeper, all slopes equal to or greater than 3' in vertical height, are required to be planted with grass or re-seed-ice plant (or equal) ground cover at a maximum spacing of 12' on center. Slopes exceeding 15' in vertical height shall be planted with approved shrubs not to exceed 10' on center, or trees spaced not to exceed 20' on center or shrubs not to exceed 10', or a combination of shrubs and trees not to exceed 15' in addition to the grass or ground cover. Slopes that require planting shall be provided with an in-ground irrigation system equipped with an appropriate backflow device per U.P.C., Chapter 10. The slope planting and irrigation system shall be installed prior to precise grading final. Revegetation of all graded areas shall be in accordance with the conditions of the WECS 71 permit.

COMPLETION OF WORK

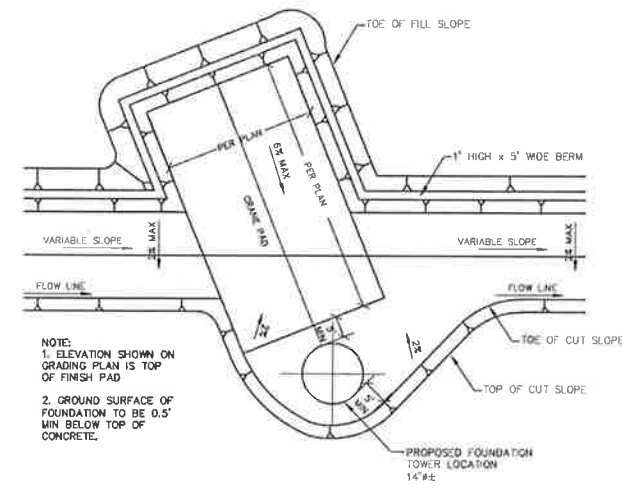
- A registered Civil Engineer shall prepare final compaction report/grading report and it shall be submitted for review and approval. The report shall include the tasks listed in Table 1704.7 of CBC2007. The report shall also provide building foundation design parameters including allowable soil pressure, expansion index, water soluble sulfate content, compressibility and remedial measures if necessary.
- A registered Civil Engineer shall submit to the Building and Safety Department written certification of completion of grading in accordance with the approved grading plan prior to requesting the issuance of the building permit. Certification shall include the grade, surface drainage, elevation, and location of permitted grading on the lot.

GENERAL GRADING NOTES:

- ALL GRADING SHALL CONFORM TO THE UNIFORM BUILDING CODE, APPENDIX CHAPTER 33, AS AMENDED BY ORDINANCE NO. 457.
- GRADING WORK WILL BE SUPERVISED AS ENGINEERED GRADING IN ACCORDANCE WITH RIVERSIDE COUNTY ORDINANCE. THE DESIGN ENGINEER SHALL EXERCISE SUFFICIENT SUPERVISORY CONTROL DURING GRADING CONSTRUCTION TO ENSURE COMPLIANCE WITH PLANS, SPECIFICATIONS, AND CODE WITHIN HIS PURVIEW.
- DISTURBED AREAS SHALL BE PLANTED IN ACCORDANCE WITH THE SOIL EROSION CONTROL PLAN PRIOR TO FINALIZING THE PERMIT. A COPY OF THE EROSION CONTROL PLAN AND SPECIFICATIONS ARE ATTACHED HERETO.
- FILL SLOPES SHALL NOT BE CONSTRUCTED ON NATURAL SLOPES STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL (2:1) UNLESS APPROVED BY THE ENGINEER. ROADS OR PADS CONSTRUCTED WITH ON SLOPES STEEPER THAN 2:1 SHALL BE CONSTRUCTED IN CUT WITH THE FILL REMOVED AND PLACED ON SLOPES OF 2:1 OR LESS.
- FILL SLOPES SHALL NOT BE STEEPER THAN 1 1/2 HORIZONTAL TO 1 VERTICAL (1 1/2 : 1) UNLESS OTHERWISE INDICATED ON THESE PLANS.
- FILLS PLACED ON SLOPES STEEPER THAN 5:1 SHALL BE KEYED AND BENCHED INTO NATIVE SOIL.
- STRUCTURAL FILL SHALL BE DEFINED AS ANY FILL AREA RECEIVING TEMPORARY OR PERMANENT LOADING FROM AN EXTERNAL SOURCE I.E. GENERATOR FOUNDATION, CRANE OUT RIGGER, ETC. STRUCTURAL FILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY PER ASTM 1557-T11 METHOD A. FILL DESIGNS AS STRUCTURAL SHALL BE PLACED WITH LIFTS NOT EXCEEDING 6" COMPACTED DEPTH.
- PRIOR TO PLACING STRUCTURAL FILL, THE EXISTING GROUND SHALL BE CLEARED OF BRUSH AND DEBRIS. ALL UNSUITABLE MATERIAL SHALL BE PLACED IN NON-STRUCTURAL FILL AREAS. CLEAN GRANULAR SOIL IS SUITABLE FOR FILL. IMPORTED MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO TRANSPORT.
- IN STRUCTURAL FILL AREAS, THE EXISTING GROUND SHALL BE MOISTENED TO NEAR OPTIMUM MOISTURE CONTENT BY A METHOD APPROVED BY THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. THE EXISTING GROUND SHALL BE THEN COMPACTED TO 90% RELATIVE DENSITY TO A DEPTH OF 18".
- COMPACTION TESTS SHALL BE TAKEN AT APPROXIMATELY 2' INTERVALS OR AT THE DISCRETION OF THE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. IN THE EVENT OF FAILED TESTS, THE CONTRACTOR SHALL NOT PLACE ADDITIONAL FILL UNTIL ACCEPTABLE TEST RESULTS ARE OBTAINED.
- POSITIVE DRAINAGE IS REQUIRED AWAY FROM ALL FOOTING OR LOAD BEARING STRUCTURES. DRAINAGE SHALL BE COLLECTED AND DIRECTED BY SWELLS, CHANNELS, OR PIPES TO THE NATURAL DRAINAGE.
- IN GENERAL CONTROL OF EROSION ENTAILS DIRECTING STORM RUNOFF TO THE NATURAL CHANNEL WITH MINIMUM EROSION. EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY IMPLEMENTATION OF THE FOLLOWING:
 - NO RUNOFF SHALL BE PERMITTED RUN OVER UNPROTECTED FILL SLOPES. SEE OVER-THE-SIDE DRAIN DETAIL, UNDER-DRAIN DETAIL, ETCETERA FOR METHOD OF CONVEYING WATERS TO NATURAL CHANNELS.
 - WHERE DRAINAGE CHANNELS CROSS ROADWAYS OR PADS AN APPROPRIATE METHOD SHALL BE EMPLOYED TO ALLOW WATERS TO CROSS UNRESTRICTED. SEE CULVERT DETAIL, AT-GRADE DETAIL, ETC.
 - A 1' HIGH X 5' WIDE BERM SHALL BE CONSTRUCTED ALONG ALL FILL SLOPES TO ASSIST IN KEEPING RUNOFF FROM THE FILL SLOPES. WATER SHALL NOT BE ALLOWED TO RUN ALONG THE BERM FOR DISTANCES MORE THAN 50' ON ROAD SLOPES OF 10% OR GREATER, 100' ON 8% GRADES, 200' ON 4% GRADES, AND 400' ON 2% GRADES.
- THE ENGINEER SHALL INSPECT THE GRADING FOLLOWING A SUBSTANTIAL RAINFALL WITH THE OWNER'S REPRESENTATIVE TO ENSURE EROSION IS SUBSTANTIALLY MINIMIZED. ANY MODIFICATIONS DEEMED NECESSARY SHALL BE MADE PRIOR TO FINALIZING THE PERMIT.
- METHOD OF ROCK PLACEMENT:
 - A FOOTING TRENCH SHALL BE EXCAVATED ALONG THE TOE OF THE SLOPE AS SHOWN ON THE PLANS. ROCKS SHALL BE PLACED AS TO PROVIDE A MINIMUM OF VOIDS AND THE LARGER ROCKS SHALL BE PLACED IN THE TOE COURSE AND ON THE OUTSIDE SURFACE OF THE SLOPE PROTECTION. THE ROCK MAY BE PLACED BY DUMPING OR MAY BE SPREAD IN LAYERS BY BULLDOZERS OR OTHER SUITABLE EQUIPMENT. LOCAL SURFACE IRREGULARITIES OF THE SLOPE PROTECTION SHALL NOT VARY FROM THE PLANNED SLOPES BY MORE THAN ONE FOOT MEASURED AT RIGHT ANGLES TO THE SLOPE. AT THE COMPLETION OF SLOPE PROTECTION WORK, THE FOOTING TRENCH SHALL BE FILLED WITH EXCAVATED MATERIAL AND COMPACTION WILL NOT BE REQUIRED. ROCK SLOPE PROTECTION WILL BE MEASURED BY THE TON OR CUBIC YARD AS DESIGNATED IN THE ENGINEER'S ESTIMATE. QUANTITIES FOR ROCK SLOPE PROTECTION TO BE PAID FOR BY THE CUBIC YARD WILL BE DETERMINED FROM THE DIMENSIONS SHOWN ON THE PLANS OR THE DIMENSIONS DETERMINED BY THE OWNER PER NOTE #15. ROCK SHALL BE CEMENTED WITH THREE (3) SACK SAND SLURRY.
- FOLLOWING IMPLEMENTATION OF THE PLAN A ROUGH GRADING INSPECTION SHALL BE MADE AT THE REQUEST OF THE OWNER. ANY DEFICIENCIES OCCURRING WILL BE NOTED, AND A WRITTEN LIST SUBMITTED TO THE OWNER AND CONTRACTOR. FOLLOWING THE ROUGH GRADING INSPECTION AND IMPLEMENTATION OF CORRECTIVE MEASURES, THE ROUGH GRADING SHALL BE SIGNED OFF BY THE ENGINEER. AT THIS TIME, THE BUILDING PERMIT FOR THE GENERATORS MAY BE ISSUED BY THE BUILDING DEPARTMENT.
- PRIOR TO FINAL BUILDING INSPECTION APPROVAL, ALL PERMANENT PRIVATE ROADS, INTERNAL CIRCULATION ROUTES, PARKING AREAS, FIRE BREAKS, PERMANENT STORAGE AREAS, AND SUBSTATIONS SHALL BE TREATED WITH MINIMUM ONE INCH THICK GRAVEL ROCK BASE COMPOSED OF 80 PERCENT GRAVEL, 40 PERCENT CRUSHED ROCK MIXTURE AND MAINTAINED THEREAFTER IN ORDER TO PREVENT THE EMISSION OF DUST AND BLOW SAND, OR AS OTHERWISE APPROVED BY THE PLANNING DIRECTOR OR THE DIRECTOR OF BUILDING AND SAFETY.
- ROADWAYS SHOWN HEREIN ARE FOR THE SOLE PURPOSE OF PROVIDING MAINTENANCE AND CONSTRUCTION ACCESS FOR MARK TECHNOLOGIES CORPORATION AND EMERGENCY ACCESS FOR FIRE, AMBULANCE, OR LAW ENFORCEMENT. THE SITE SHALL BE MADE ACCESSIBLE TO EMERGENCY SERVICES AT ALL TIMES.
- ROADWAYS SHALL BE MAINTAINED BY MARK TECHNOLOGIES CORPORATION.
- ON-SITE ACCESS ROADS SHALL BE RESTRICTED FROM USE BY THE GENERAL PUBLIC. LOCKED GATES AND FENCES RESTRICTING PUBLIC ACCESS MAY BE MAINTAINED FOR THE DURATION OF OPERATION OF THE WIND GENERATION FACILITIES. SIGNS AT ALL ENTRANCES SHALL INDICATE "NO TRESPASSING, AUTHORIZED PERSONNEL ONLY, DANGER - WIND TURBINES".
- ROAD LOCATIONS MAY BE ALTERED SLIGHTLY TO AVOID JOSHUA TREES, CHOLER CACTUS, BEAVERTAIL CACTUS, AND JUNIPER TREES, AND THE ENGINEER'S OPTION.



A: H/2 BUT 2' MIN. AND 30' MAX.
B: H/5 BUT 2' MIN. AND 10' MAX.

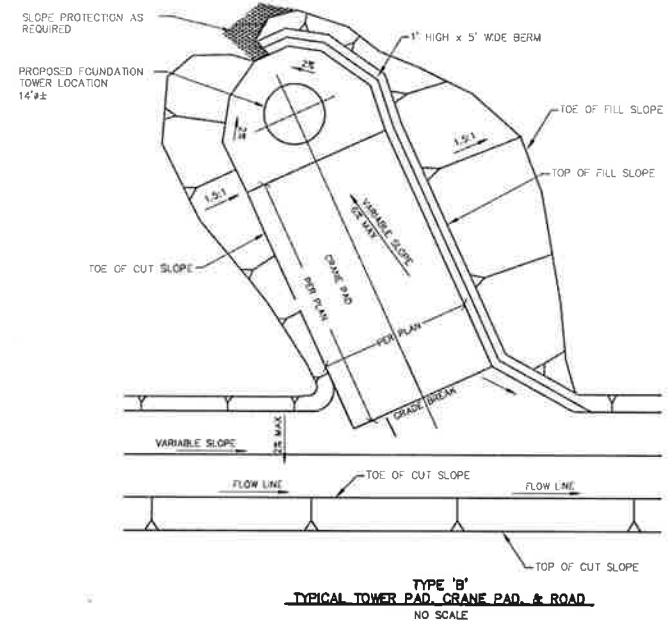


TYPE 'A'
TYPICAL TOWER PAD, CRANE PAD, & ROAD
NO SCALE

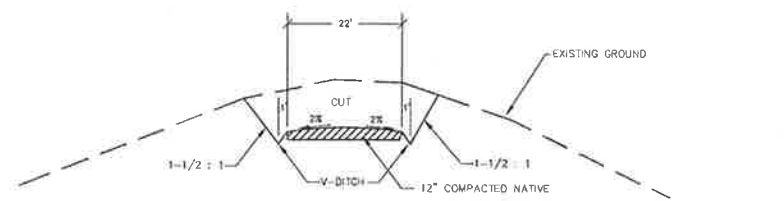
NOTE: THE NATURAL DRAINAGE PATTERN OF THE SITE REMAINS UNCHANGED BY THE GRADING AS DESIGNED ON THIS PLAN AND DOES NOT ALTER THE FLOW OF THE WATERSHED.

NPDES : When one acre or more is bala2 disturbed:

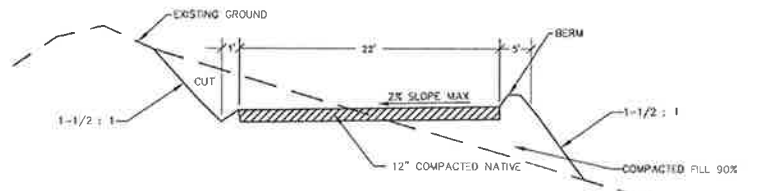
- Construction site Best Management Practices (BMPs) for the management of storm water and non-stormwater discharges shall be documented on the grading plan which thereby becomes the site Storm Water Pollution Prevention Plan (SWPPP). Arrangements shall be made by the developer to retain the SWPPP on the jobsite throughout the time of construction. The implementation and maintenance of site BMPs is required to minimize jobsite erosion and sedimentation. Certain BMPs may be required to remain in place throughout the year to minimize erosion and sedimentation. Arrangements shall be made by the developer to maintain those BMPs throughout the time of construction.
- Erosion control BMPs shall be implemented and maintained to minimize the entrainment of soil in runoff from disturbed soil areas on construction sites.
- Sediment control BMPs shall be implemented and maintained to minimize the transport of soil from the construction site.
- Grading shall be phased to limit the amount of disturbed areas exposed to the extent feasible.
- Areas that are cleared and graded shall be limited to only the portion of the site that is necessary for construction. The construction site shall be managed to minimize the exposure time of disturbed soil areas through phasing and scheduling of grading and the use of temporary and permanent soil stabilization.
- Once disturbed, slopes (temporary or permanent) shall be stabilized if they will not be worked within 21 days. During the storm season, all slopes shall be stabilized prior to a predicted storm event. Construction sites shall be revegetated as early as feasible after soil disturbance.
- Stockpiles of soil shall be properly contained to eliminate or reduce sediment transport from the site to streets, drainage facilities or adjacent properties via runoff, vehicle tracking, or wind.
- Construction sites shall be maintained in such a condition that a storm does not carry wastes or pollutants off the site. Discharges other than storm water (non-stormwater discharges) are prohibited, except as authorized by an individual NPDES permit, the statewide General Permit-Construction Activity. Potential pollutants include but are not limited to: solids or liquid chemical spills; wastes from paints, stains, sealants, solvents, detergents, glues, lime, pesticides, herbicides, fertilizers, wood preservatives, and asbestos fibers, paint flakes or stucco fragments; fuels, oils lubricants, and hydraulic, radiator or battery fluids; concrete and related cutting or curing residues; footable wastes; wastes from engine/equipment steam cleaning or chemical degreasing; wastes from street cleaning; and super-chlorinated potable water from line flushing and testing. During construction, disposal of such materials should occur in a specified and controlled temporary area on-site physically separated from potential stormwater runoff, with ultimate disposal in accordance with local, state and federal requirements.
- Runoff from equipment and vehicle washing shall be contained at construction site and must not be discharged to receiving waters or the local storm drain system.
- Appropriate BMPs for construction-related materials, wastes, spills or residues shall be implemented to eliminate or reduce transport from the site to streets, drainage facilities, or adjoining properties by wind or runoff.
- All construction contractors and subcontractor personnel are to be made aware of the required BMPs and good housekeeping measures for the project site and any associated construction staging areas.
- Discharging contaminated groundwater produced by dewatering groundwater that has infiltrated into the construction site is prohibited. Discharging of contaminated soils via surface erosion is also prohibited. Discharging non-contaminated groundwater produced by dewatering activities may require a National Pollutant Discharge Elimination System (NPDES) permit from the Regional Water Quality Control Board.
- BMPs shall be maintained at all times. In addition, BMPs shall be inspected prior to predicted storm events and following storm events.
- At the end of each day of construction activity, all construction debris and waste materials shall be collected and properly disposed of in trash or recycle bins.



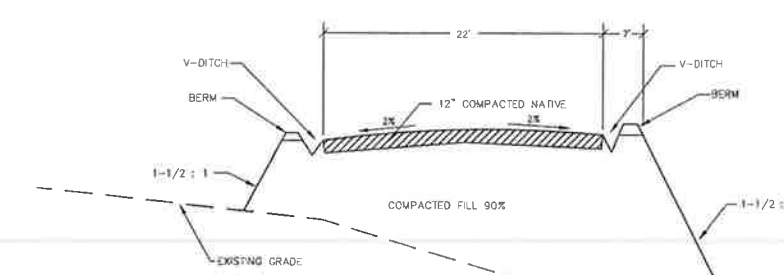
TYPE 'B'
TYPICAL TOWER PAD, CRANE PAD, & ROAD
NO SCALE



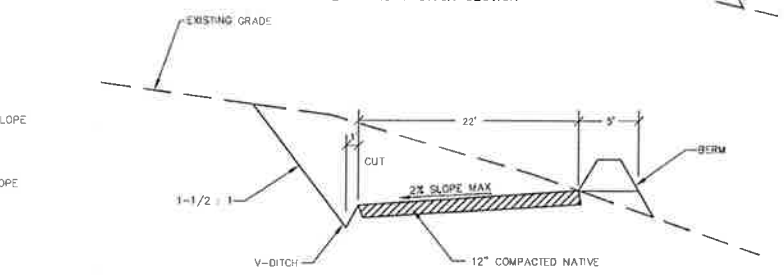
TYPICAL CUT ROAD SECTION



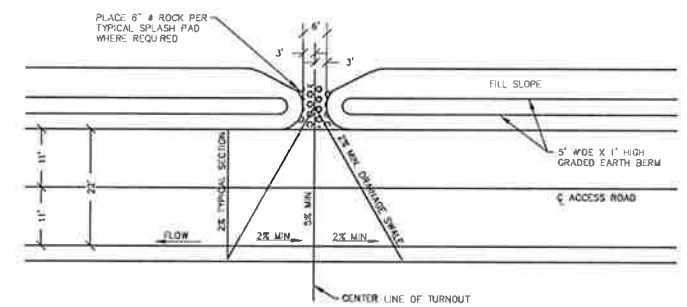
TYPICAL CUT / FILL SERVICE ROAD AND V-DITCH SECTION



TYPICAL FILL SERVICE ROAD W/ BERM AND V-DITCH SECTION



TYPICAL CUT SERVICE ROAD W/ BERM AND V-DITCH SECTION



TYPICAL DRAIN TURNOUT
NO SCALE

WDID No. 733C352442 BGR080214

NOTES AND DETAILS

REVISIONS	DATE	DESCRIPTION	BY

PREPARED FOR: MARK TECHNOLOGIES CORPORATION
250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION: REVISED WECS 71 DETAILS FOR ALTA MESA IV PALM SPRINGS, CALIFORNIA SEC. 3 T. 3S., R. 3E., SBB&M

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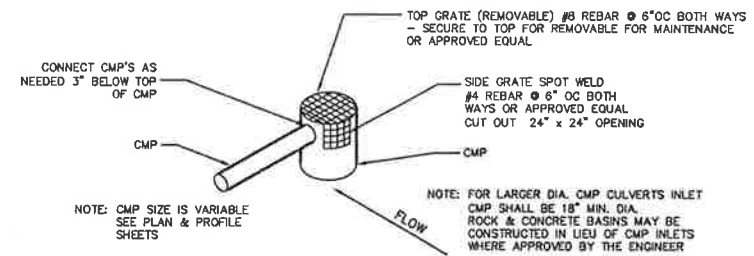
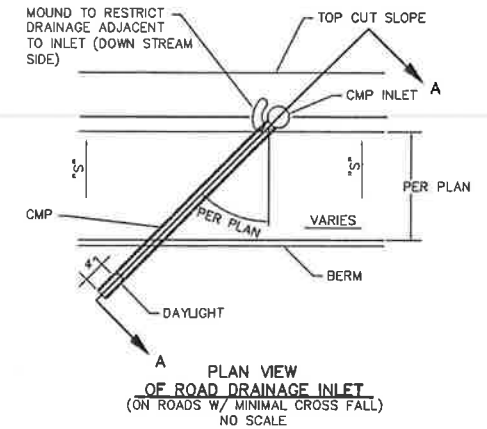
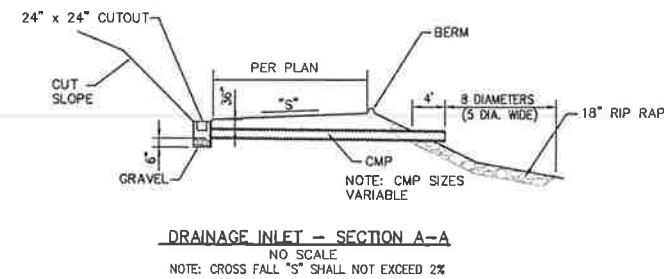
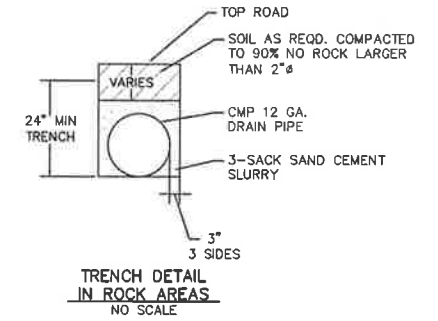
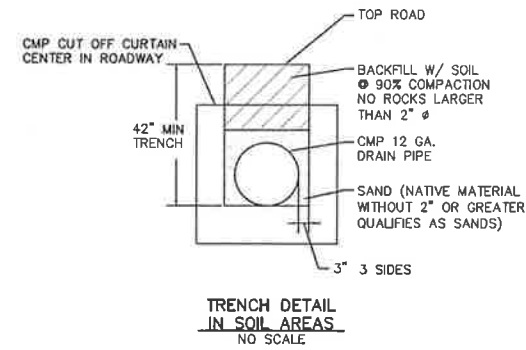
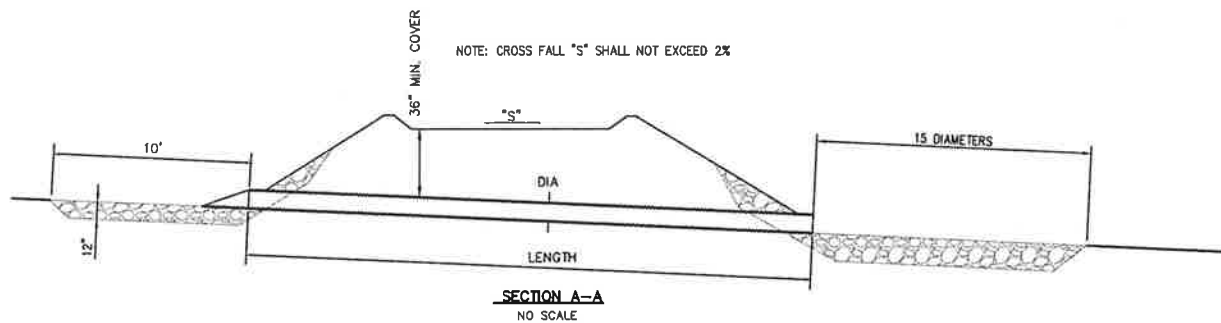
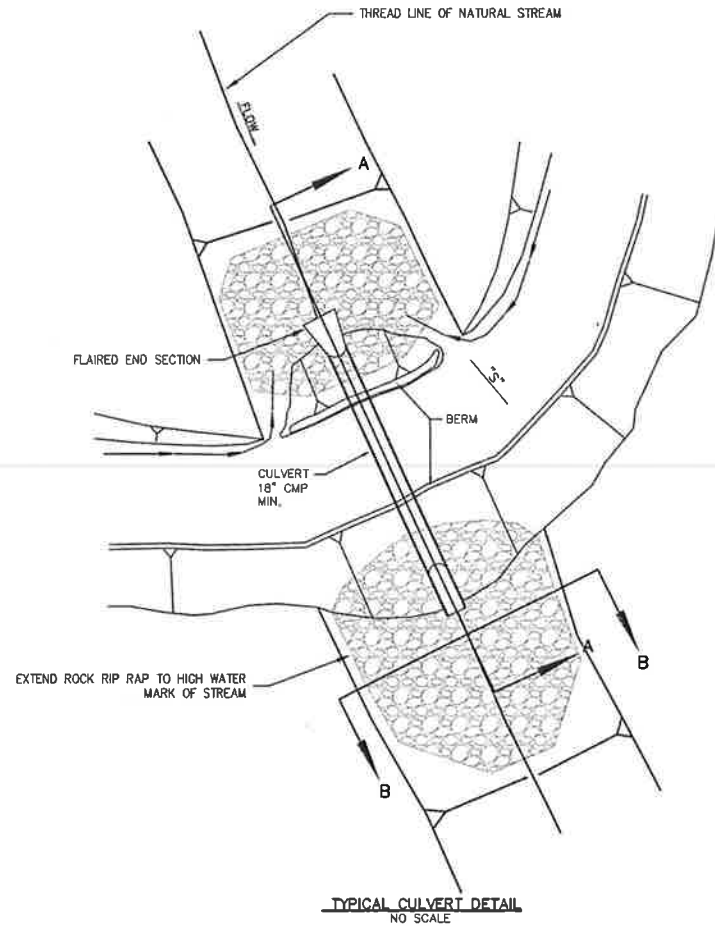
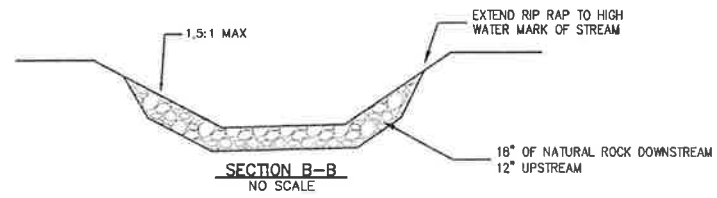
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Land Planning
Land Surveying
Soils Testing

DATE: 06/08/10
SCALE: AS SHOWN
DRAWN: RGS
APPROVED: [Signature]



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APPROVED:

REVISIONS	DATE	DESCRIPTION	BY

PREPARED FOR:
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250 E. 5TH STREET, SUITE 1500
CINCINNATI, OH 45202

DESCRIPTION:

REVISED WECS 71
DETAILS
FOR
ALTA MESA IV
PALM SPRINGS, CALIFORNIA
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SHEET:
14
14 SHEETS
JOB NO.: 04-097