

LEGEND

- MAJOR CONTOURS
- MINOR CONTOURS
- SITE BOUNDARY
- EDGE OF ROAD/GRAVEL
- FENCE
- DIRECTION OF FLOW
- DRAINAGE/FLOWLINE

North Arrow

Scale: 1 INCH = 100 FT.
CONTOUR INTERVAL = 1 FOOT

NOTES:
1. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE FROM ABOVE GROUND STRUCTURES, MARKINGS BY THE RESPECTIVE UTILITY COMPANIES AND/OR THEIR LOCATOR SERVICES, AND DRAWINGS PROVIDED BY THE UTILITY COMPANIES. NO EXCAVATIONS WERE MADE DURING THIS SURVEY TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF THE UNDERGROUND UTILITIES AND STRUCTURES. ACTUAL LOCATION MAY VARY SLIGHTLY FROM THOSE SHOWN HEREON AND ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION ON THIS PROPERTY.
2. EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITIES) PROVIDED BY WASATCH SURVEYING.
3. THE ORIGINAL DRAWING SIZE IS 22" x 34".

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CENTRE OF EXCELLENCE
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811
Know what's below.
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REVISIONS			
NO.	DATE	DESCRIPTION	BY

encana.
natural gas

RIVER CITY
CONSULTANTS

744 Horizon Court, Suite 110
Grand Junction, Co. 81506

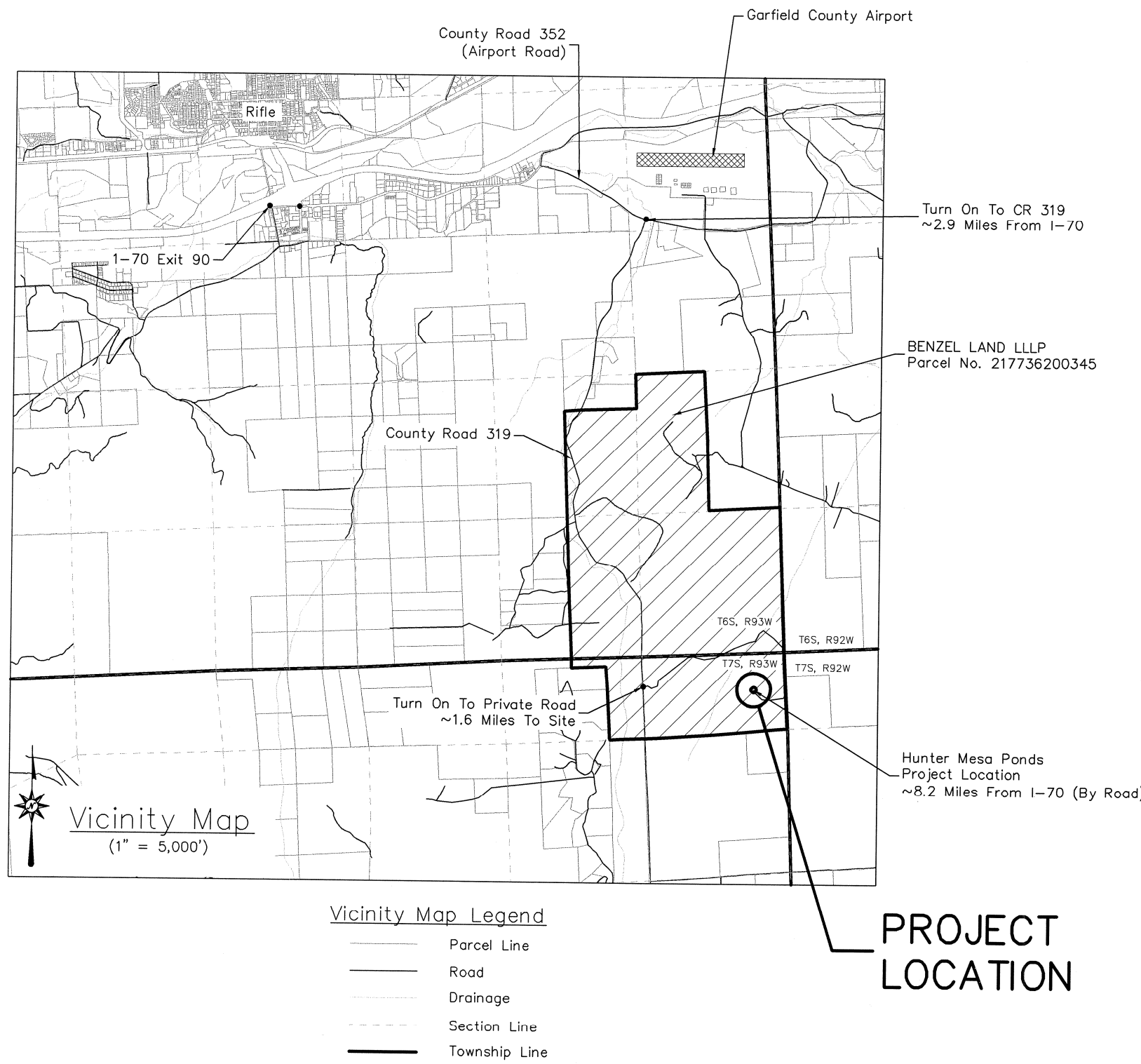
Phone: 970.241.4722
Fax: 970.241.8841

Encana Oil & Gas (USA) Inc.

Hunter Mesa Site Plan


PROJECT #1086-066	SCALE	DATE ISSUED: 06.05.13
DRAWN BY: nmr	HORIZ:	SHEET NO. OF SHEETS
CHECKED BY: mjk	VERT:	

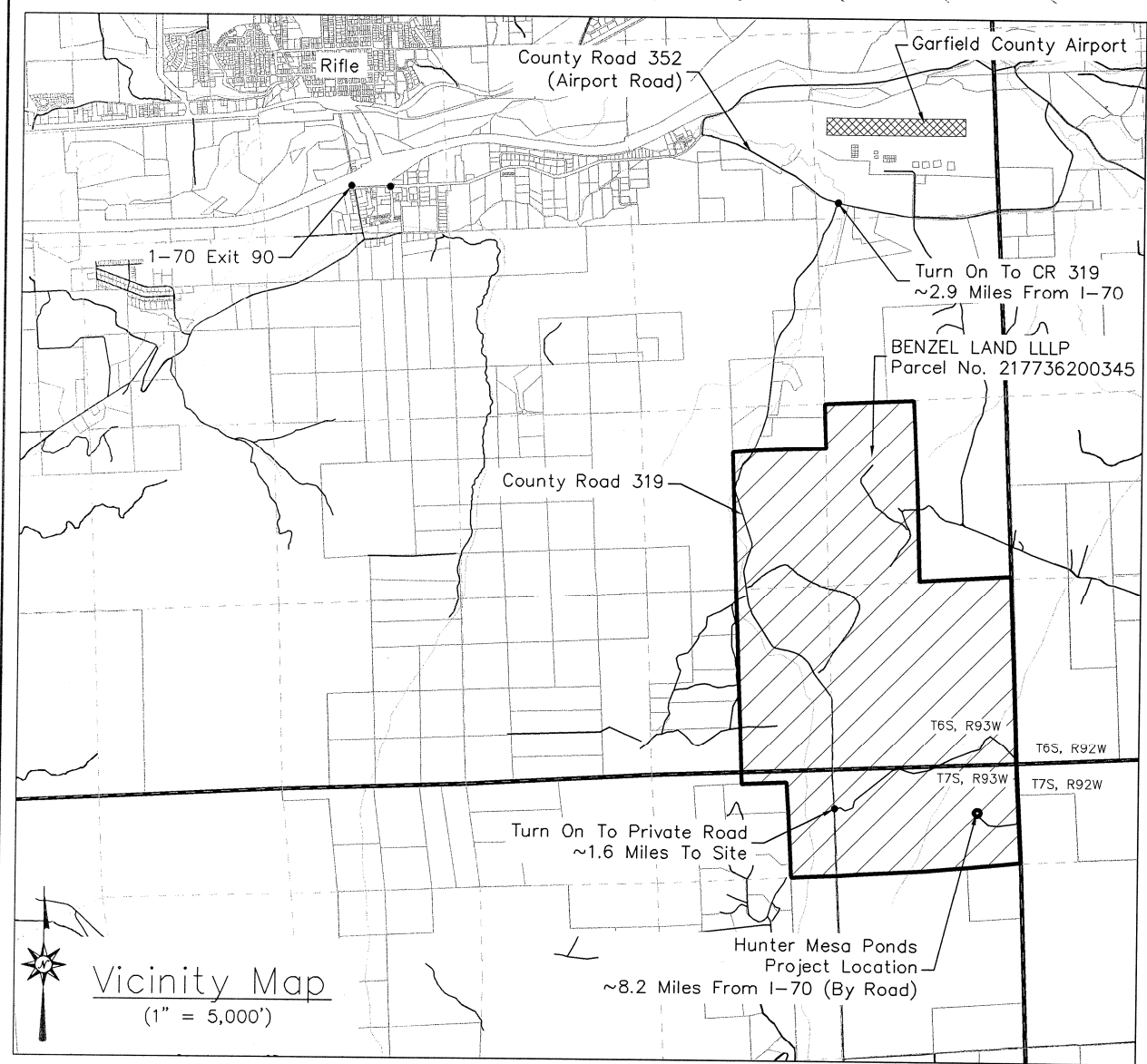
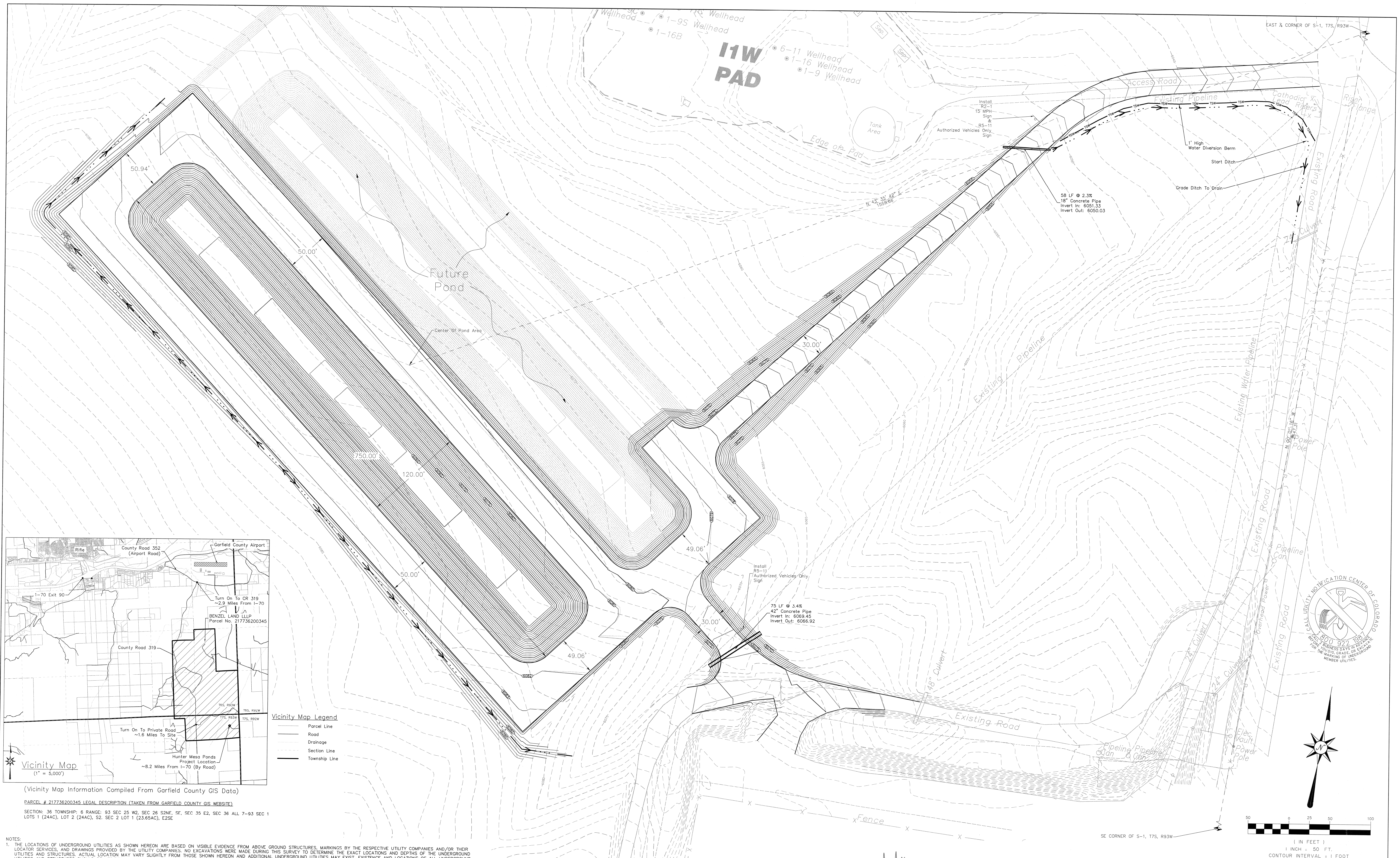
Hunter Mesa Ponds








NO.	TITLE
SHEET C0	Cover Sheet
SHEET C1	Site Plan
SHEET C2	Grading Plan
SHEET C3	Pond Pad Area Cross Sections
SHEET C4	Access Road Cross Sections
SHEET C5	Pre-Construction Erosion Control Plan
SHEET C6	Construction Erosion Control Plan
SHEET C7	Post-Construction Erosion Control Plan



		REVISIONS		BY		<div>encana™ natural gas</div> <div>RIVER CITY CONSULTANTS</div> <div>744 Horizon Court, Suite 110 Grand Junction, Co. 81506 Phone: 970.241.4722 Fax: 970.241.8841</div>		<div>Encana Oil & Gas (USA) Inc.</div> <div>Hunter Mesa Ponds Cover Sheet</div> <div><table><tr><td>PROJECT #1086-043</td><td>SCALE</td><td colspan="2">DATE ISSUED: 03.23.12</td><td rowspan="2">C0</td></tr><tr><td>DRAWN BY: nmr</td><td>HORIZ:</td><td colspan="2"></td></tr><tr><td>CHECKED BY: mjk</td><td>VERT:</td><td>SHEET NO.</td><td>OF SHEETS</td><td></td></tr></table></div>				PROJECT #1086-043	SCALE	DATE ISSUED: 03.23.12		C0	DRAWN BY: nmr	HORIZ:			CHECKED BY: mjk	VERT:	SHEET NO.	OF SHEETS	
PROJECT #1086-043	SCALE	DATE ISSUED: 03.23.12				C0																			
DRAWN BY: nmr	HORIZ:																								
CHECKED BY: mjk	VERT:	SHEET NO.	OF SHEETS																						
NO.	DATE	DESCRIPTION																							



Vicinity Map Legend

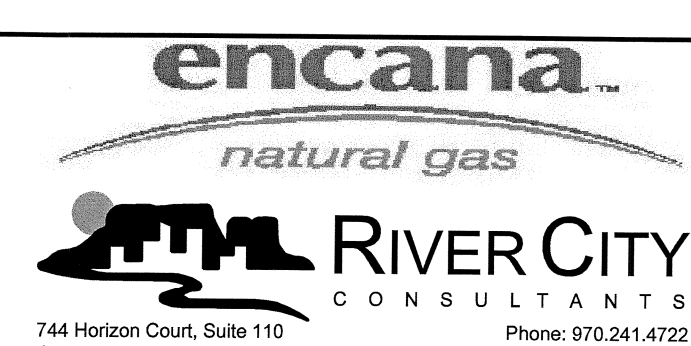
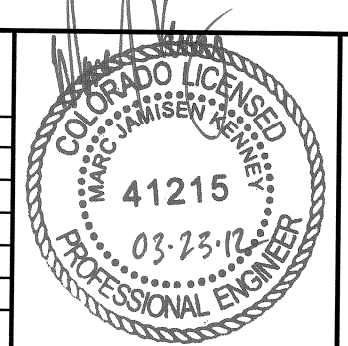
	Parcel Line
	Road
	Drainage
	Section Line
	Township Line

(Vicinity Map Information Compiled From Garfield County GIS Data)

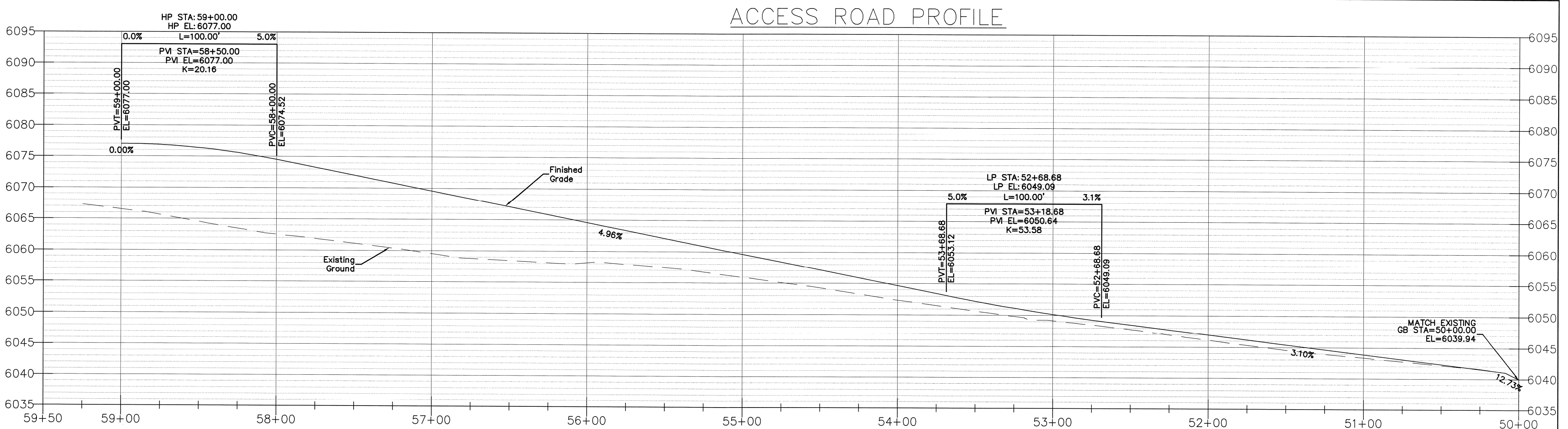
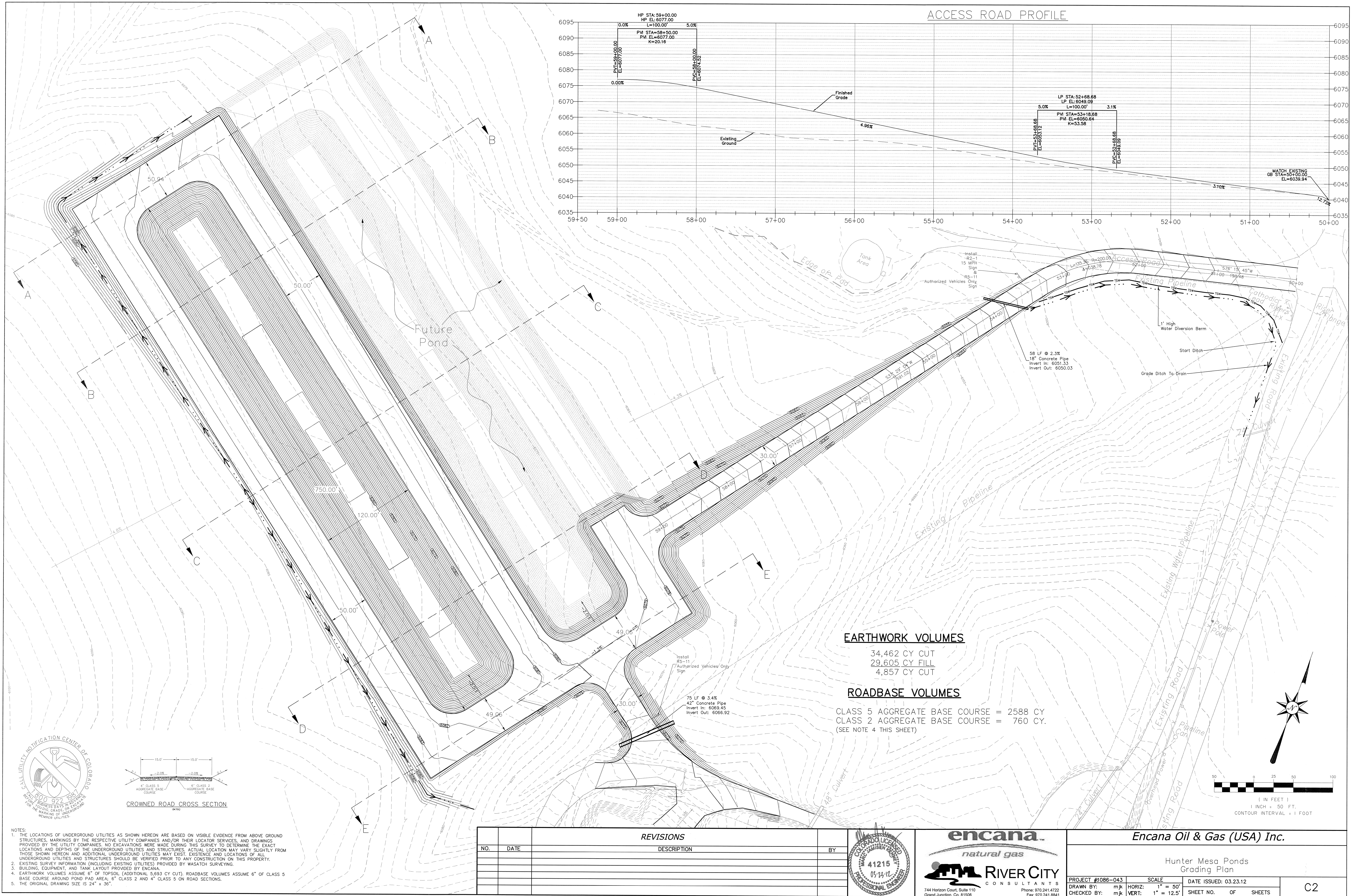
PARCEL # 217736200345 LEGAL DESCRIPTION (TAKEN FROM GARFIELD COUNTY GIS WEBSITE)

SECTION: 36 TOWNSHIP: 6 RANGE: 93 SEC 25 W2, SEC 26 S2NE, SE, SEC 35 E2, SEC 36 ALL 7-9 SEC 1
LOTS 1 (24AC), LOT 2 (24AC), S2, SEC 2 LOT 1 (23.65AC), E2SE

1. NOTES:
2. THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE FROM ABOVE GROUND STRUCTURES, MARKINGS BY THE RESPECTIVE UTILITY COMPANIES AND/OR THEIR LOCATOR SERVICES, AND DRAWINGS PROVIDED BY THE UTILITY COMPANIES. NO EXCAVATIONS WERE MADE DURING THIS SURVEY TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF THE UNDERGROUND UTILITIES AND STRUCTURES. ACTUAL LOCATION MAY VARY SLIGHTLY FROM THOSE SHOWN HEREON, AND ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION ON THIS PROPERTY.
3. EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITY) PROVIDED BY WASATCH SURVEYING.
4. PARCEL INFORMATION IS TAKEN FROM THE GARFIELD COUNTY GIS WEBSITE.
5. VOLUMES ASSUME 6" OF TOPSOIL.
6. THE PROJECT IS LOCATED WITHIN A 1,992 ACRE PARCEL, # 217736200345, WHICH IS OWNED BY BENZEL LAND LLP. IN MORE LEGAL TERMS, IT IS LOCATED IN SOUTHEAST ¼ OF SECTION 1, TOWNSHIP 7 NORTH, RANGE 93 WEST OF THE 6TH PRINCIPAL MERIDIAN, GARFIELD COUNTY, COLORADO. THE PROJECT AREA IS EQUAL TO THE ESTIMATED TOTAL AREA OF DISTURBANCE WHICH IS 14.2 ACRES.
7. ACCORDING TO THE NRCS WEB SITE, THE UPPER LAYER OF SOILS PRESENT AT THE PROJECT SITE ARE POTTS LOAM AND POTTS-ILDEFONSO COMPLEXES. THESE SOILS HAVE A HYDROLOGIC SOIL GROUPATION OF B (MODERATELY PERMEABLE). THE WHOLE SOIL EROSION K FACTOR FOR THESE SOILS IS 0.28, MEANING THIS SOIL IS MILD TO MODERATELY ERODIVE.
8. EXISTING VEGETATION ON THE SITE CONSISTS PRIMARILY OF HIGH DESERT VEGETATION (SAGE, RABBIT BRUSH, ETC.). UNDISTURBED PORTIONS OF THE SITE ARE APPROXIMATELY 70% VEGETATED.
9. THIS SITE IS LOCATED WITHIN "RURAL" ZONING.
10. THE ORIGINAL DRAWING SIZE IS 24" X 36".

[illegible]

<p align="center"><i>Encana Oil & Gas (USA) Inc.</i></p>			
<p align="center">Hunter Mesa Ponds Site Plan</p>			
PROJECT #1086-043		SCALE	DATE ISSUED: 03.23.12
DRAWN BY: nmr	HORIZ: 1" = 50'	ELECT AND MEASUREMENTS	

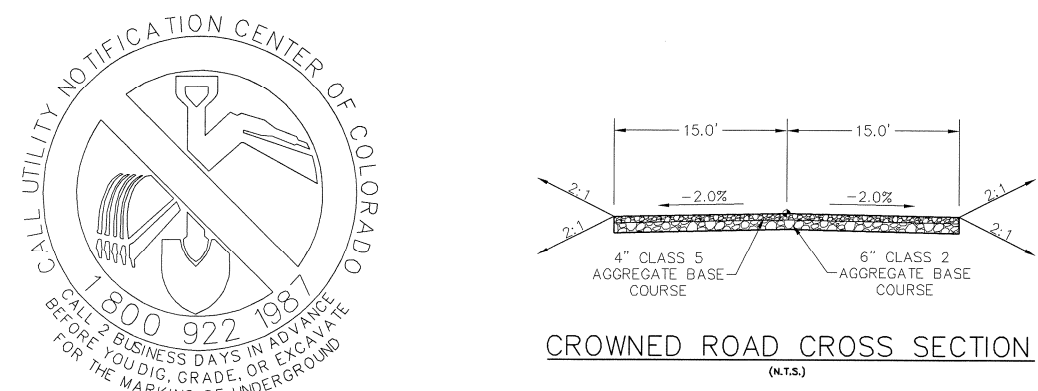


EARTHWORK VOLUMES

34,462 CY CUT
29,605 CY FILL
4,857 CY CUT

ROADBASE VOLUMES

CLASS 5 AGGREGATE BASE COURSE = 2588 CY
CLASS 2 AGGREGATE BASE COURSE = 760 CY.
(SEE NOTE 4 THIS SHEET)



- NOTES:
- THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE FROM ABOVE GROUND STRUCTURES, MARKINGS BY THE RESPECTIVE UTILITY COMPANIES AND/OR THEIR LOCATOR SERVICES, AND DRAWINGS PROVIDED BY THE UTILITY COMPANIES. NO EXCAVATIONS WERE MADE DURING THIS SURVEY TO DETERMINE THE EXACT LOCATIONS AND DEPTHS OF THE UNDERGROUND UTILITIES AND STRUCTURES. ACTUAL LOCATION MAY VARY SLIGHTLY FROM THOSE SHOWN HEREON. ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION ON THIS PROPERTY.
 - EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITIES) PROVIDED BY WASATCH SURVEYING.
 - BUILDING, EQUIPMENT, AND TANK LAYOUT PROVIDED BY ENCANA.
 - EARTHWORK VOLUMES ASSUME 6" OF TOPSOIL (ADDITIONAL 5,693 CY CUT). ROADBASE VOLUMES ASSUME 6" OF CLASS 5 BASE COURSE AROUND POND PAD AREA, 6" CLASS 2 AND 4" CLASS 5 ON ROAD SECTIONS.
 - THE ORIGINAL DRAWING SIZE IS 24" x 36".

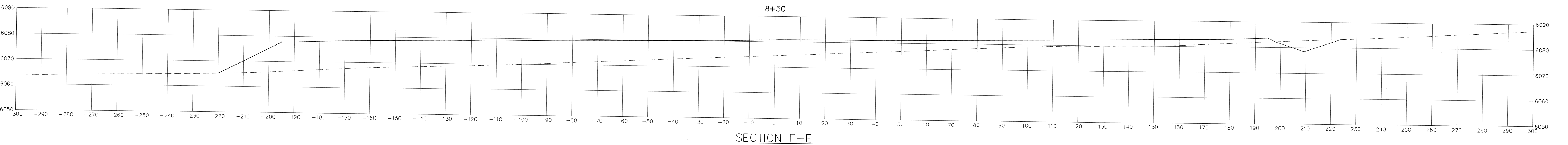
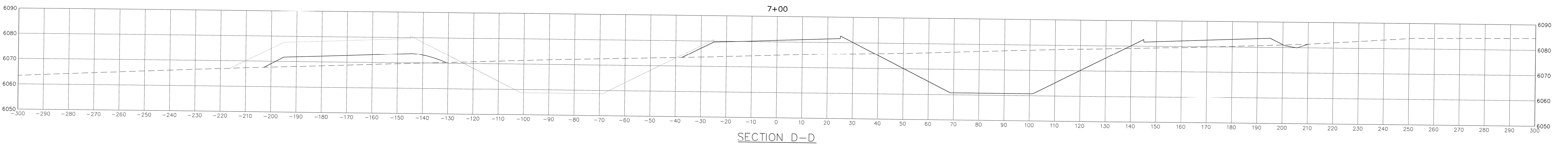
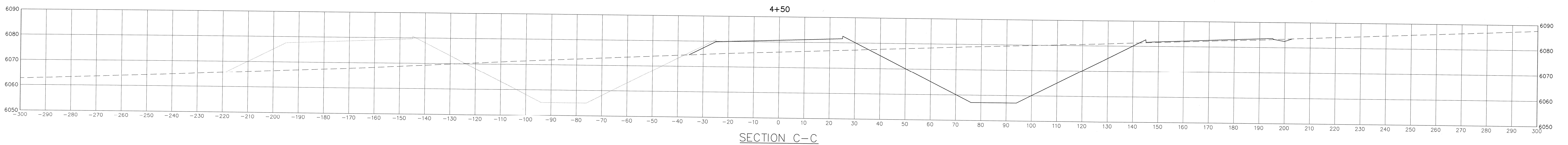
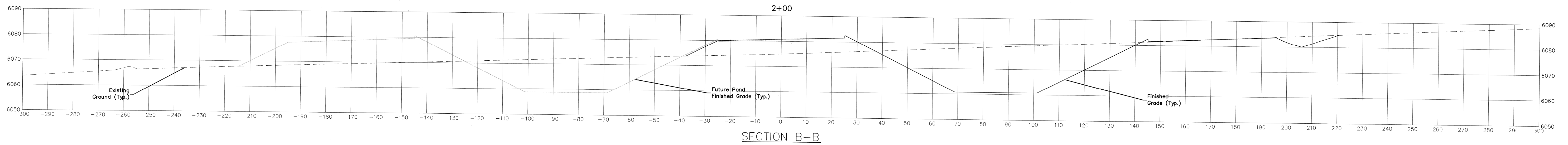
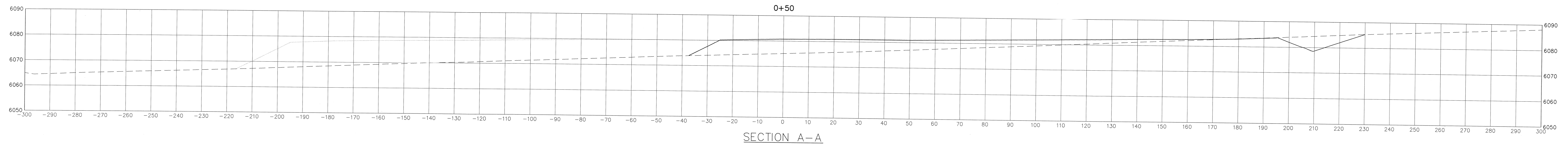
REVISIONS			
NO.	DATE	DESCRIPTION	BY

744 Horizon Court, Suite 110
Grand Junction, Co. 81506
Phone: 970.241.4722
Fax: 970.241.8841

Encana Oil & Gas (USA) Inc.

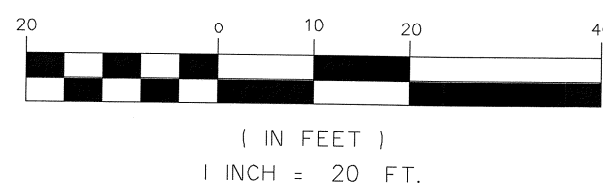
Hunter Mesa Ponds
Grading Plan

PROJECT #1086-043	SCALE	DATE ISSUED: 03.23.12
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CHECKED BY: mjk	VERT: 1" = 12.5'	

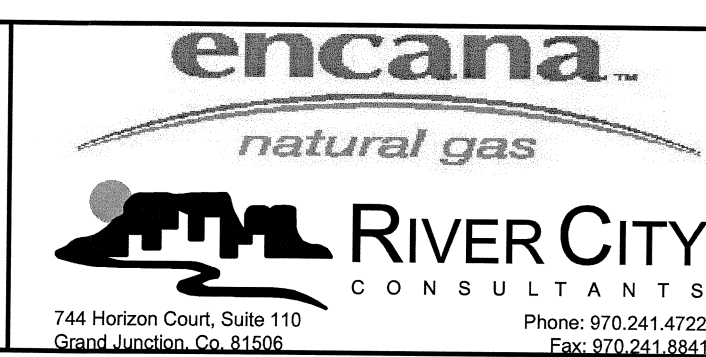
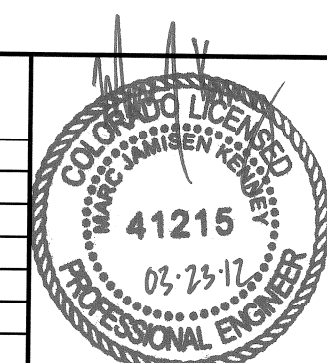


POND PAD AREA CROSS SECTIONS

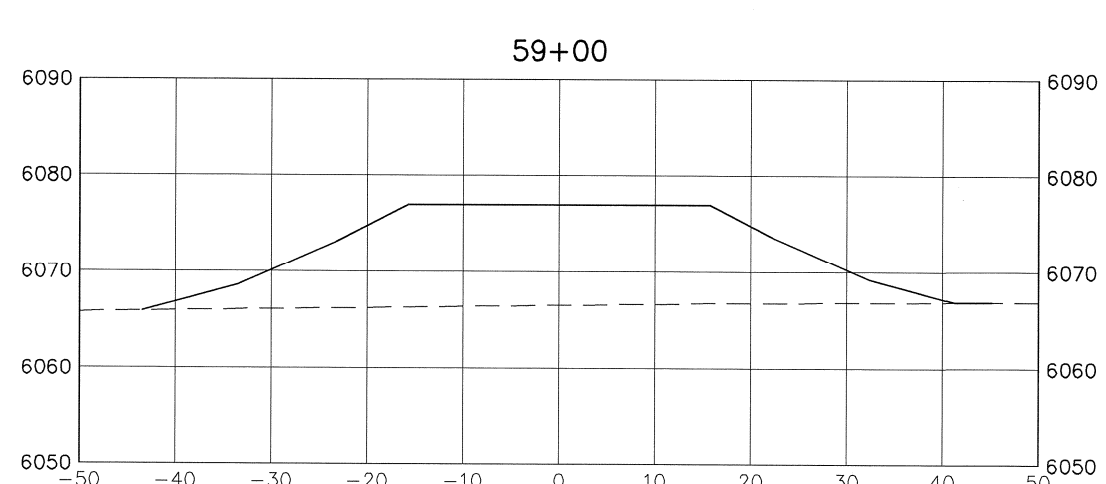
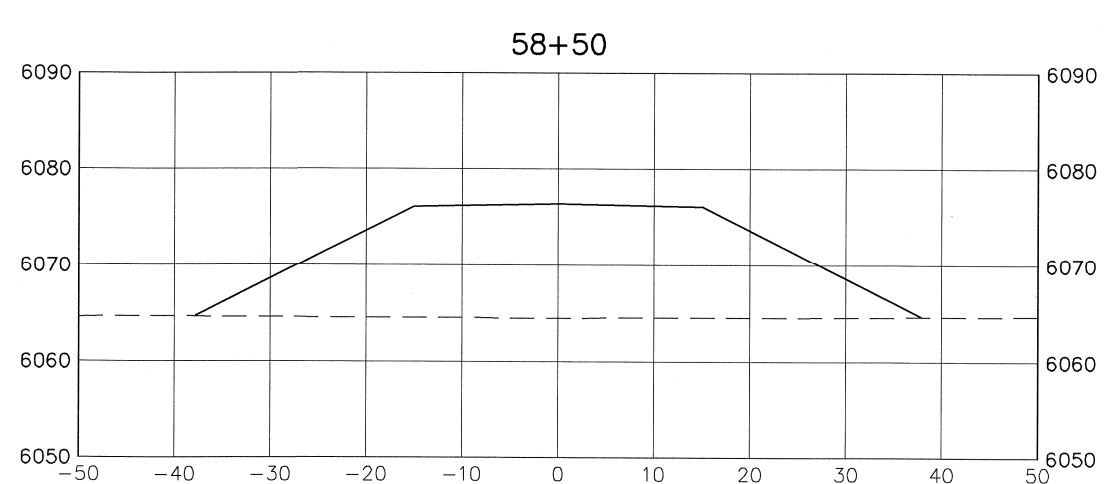
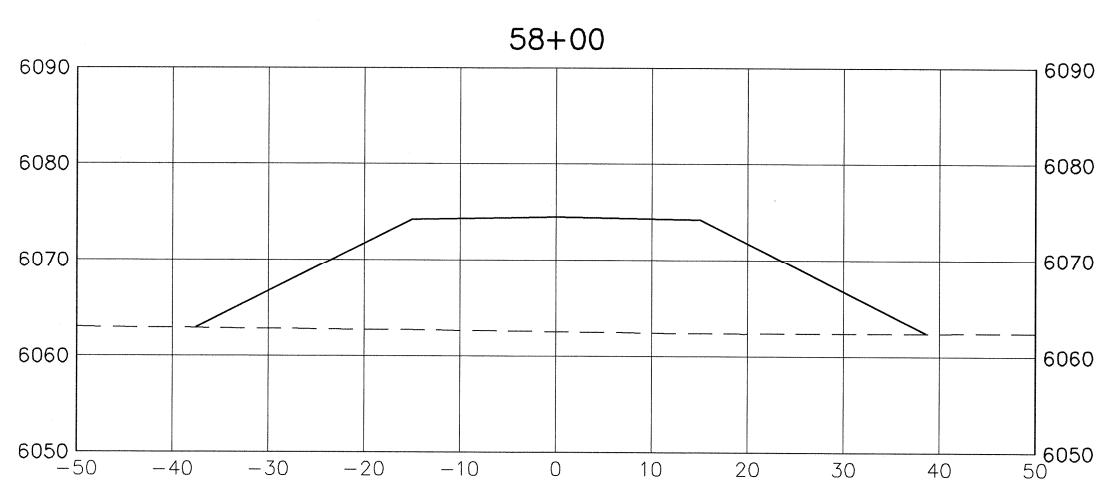
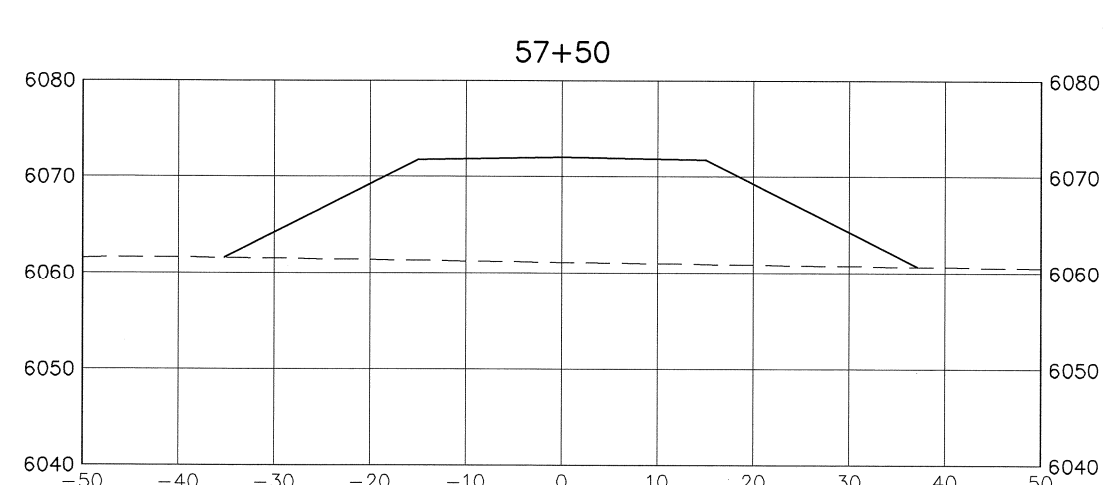
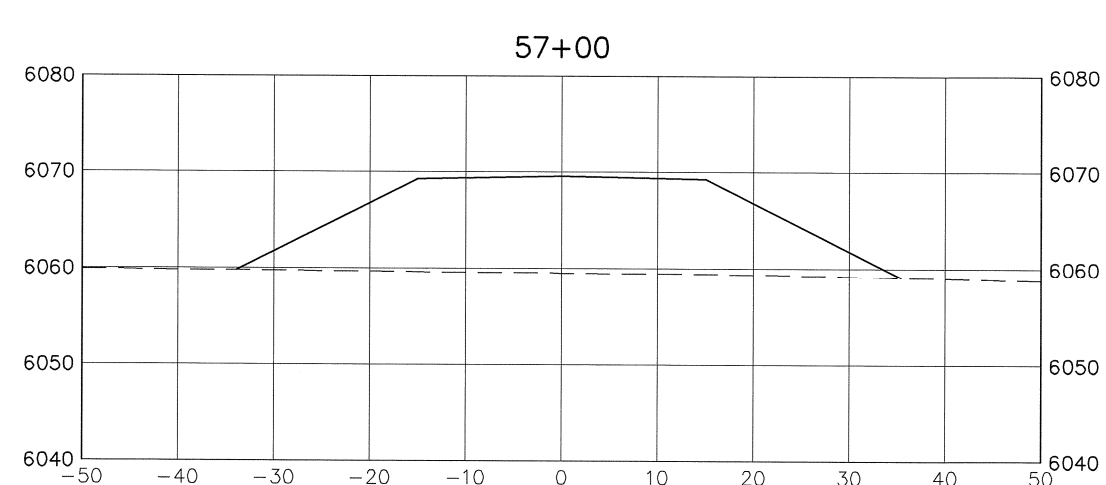
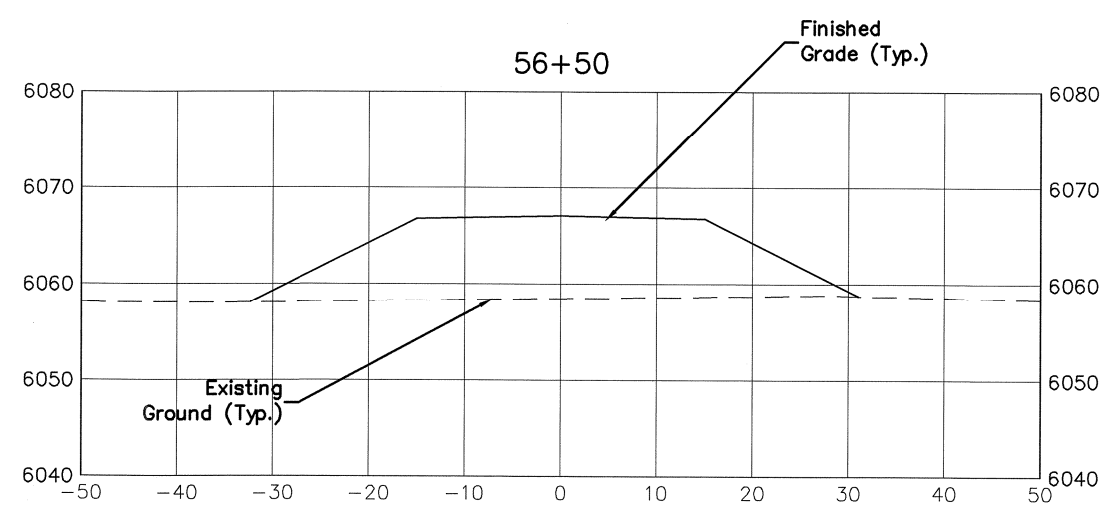
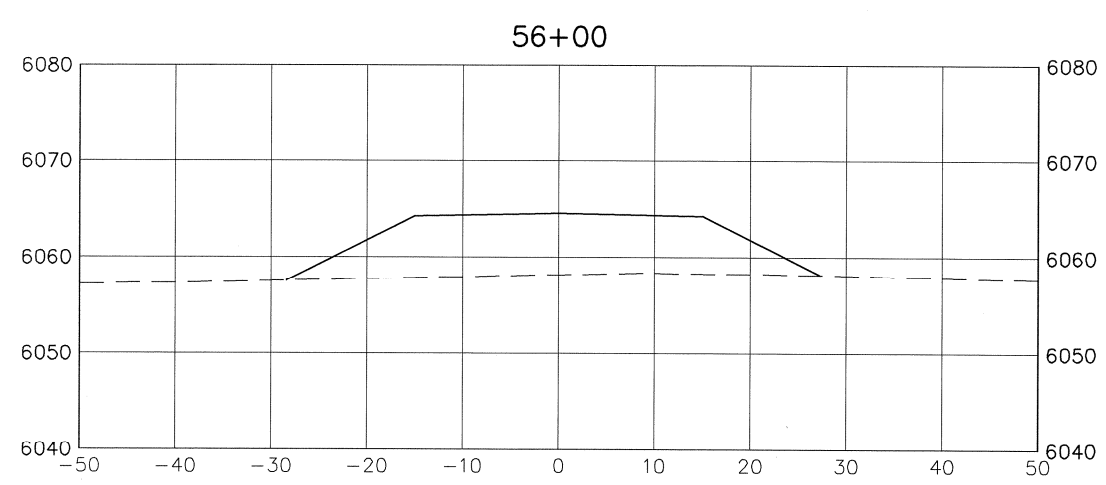
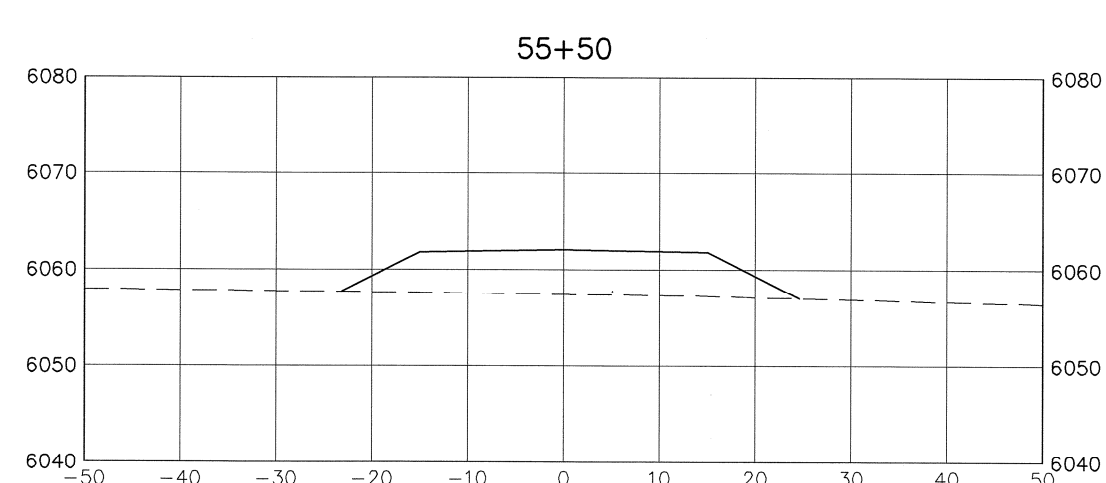
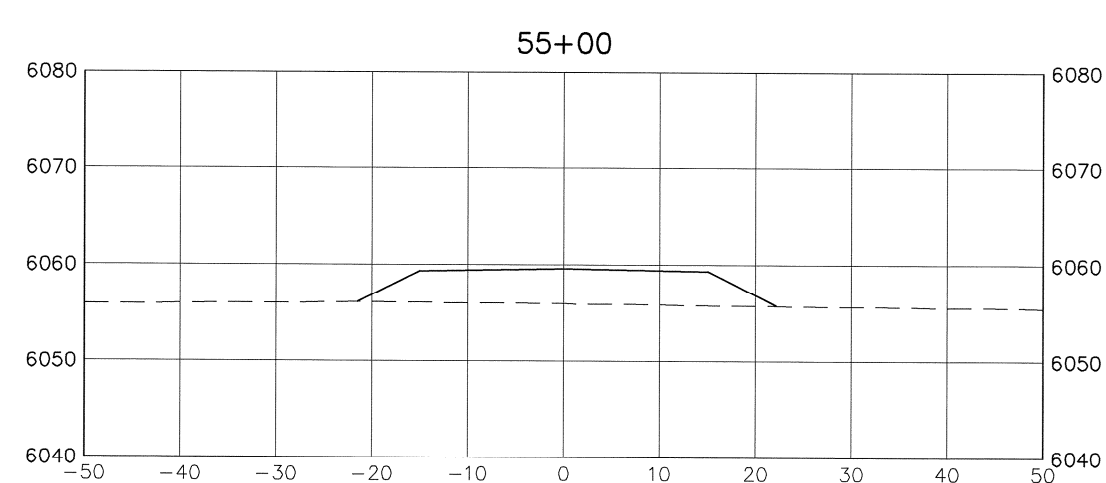
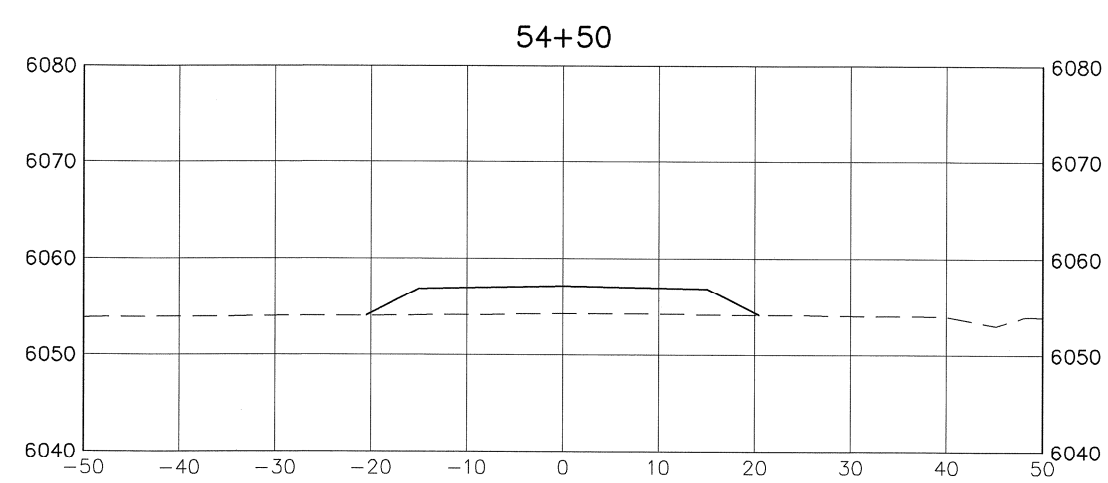
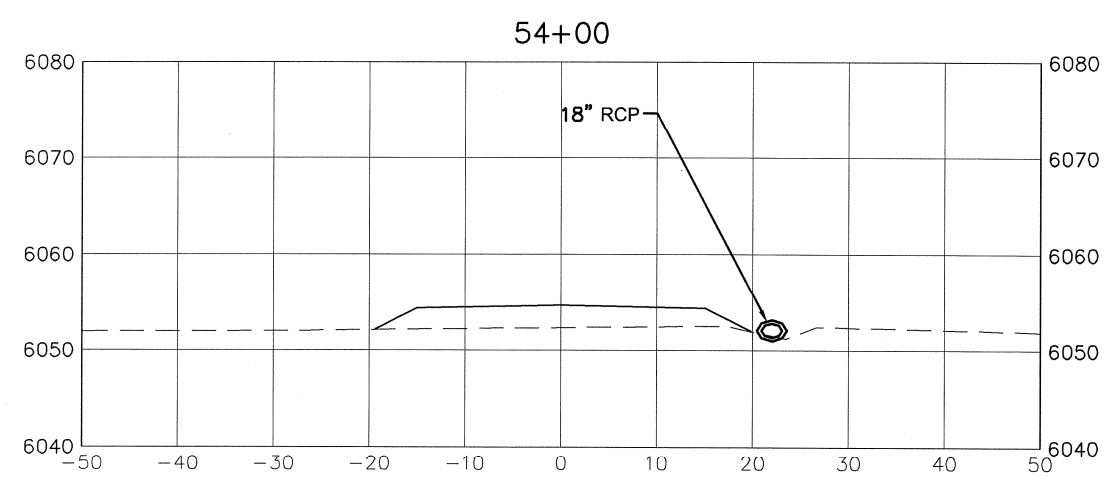
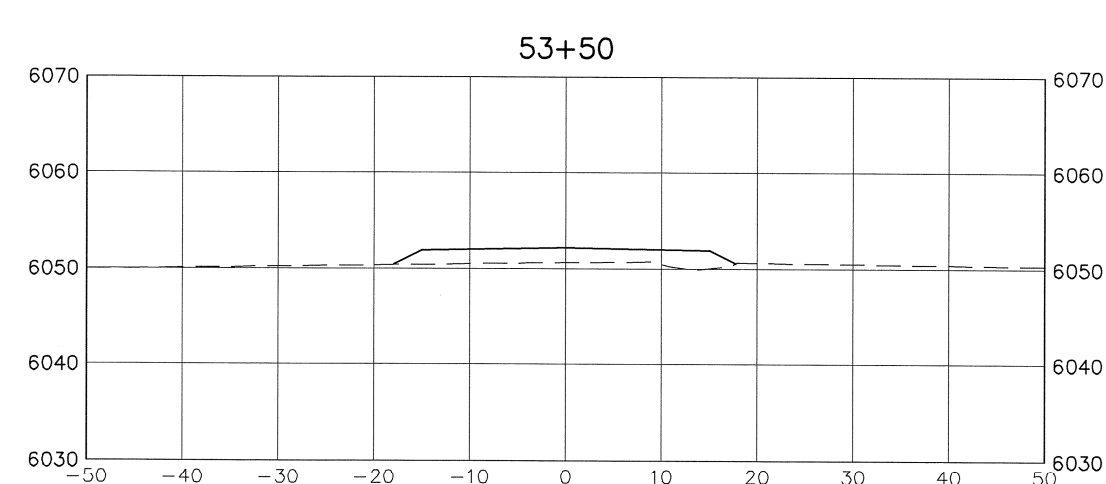
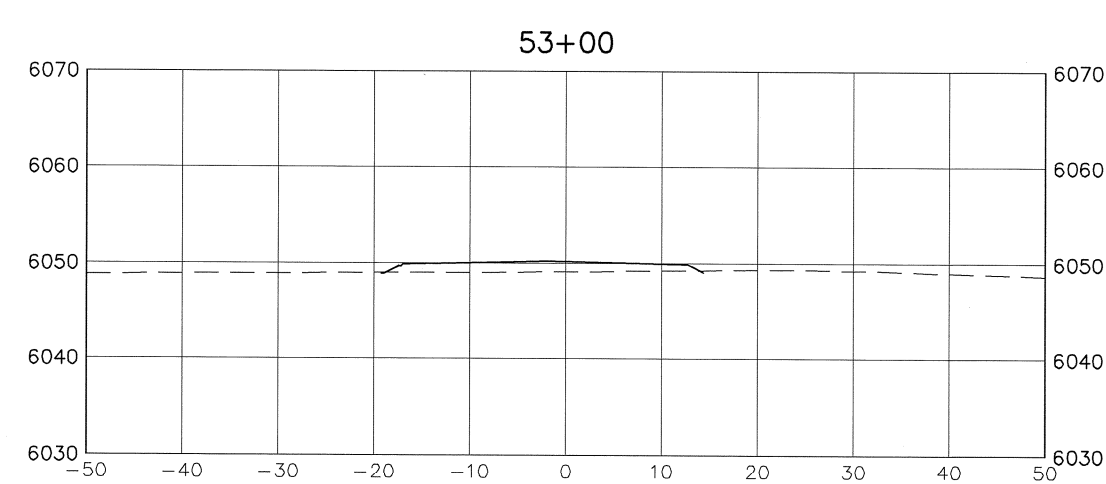
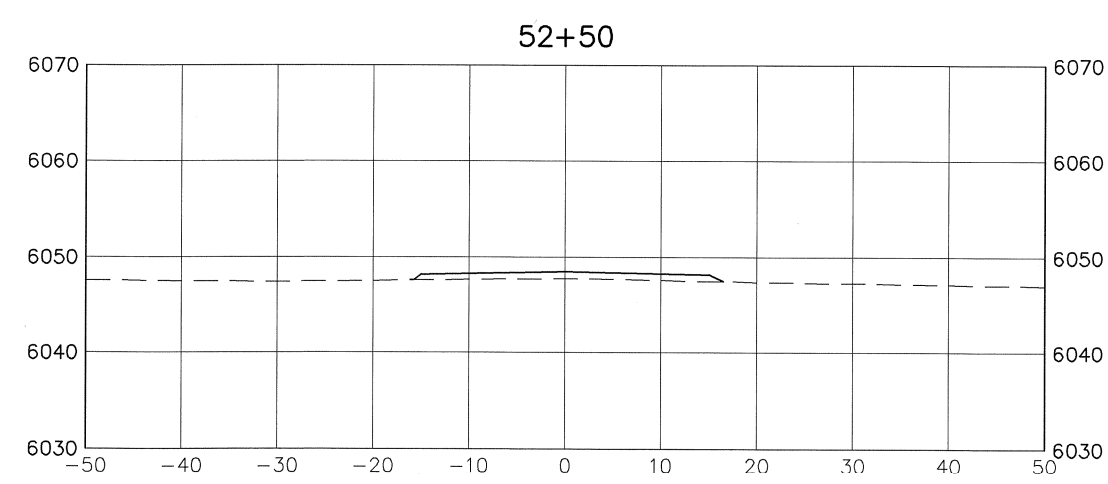
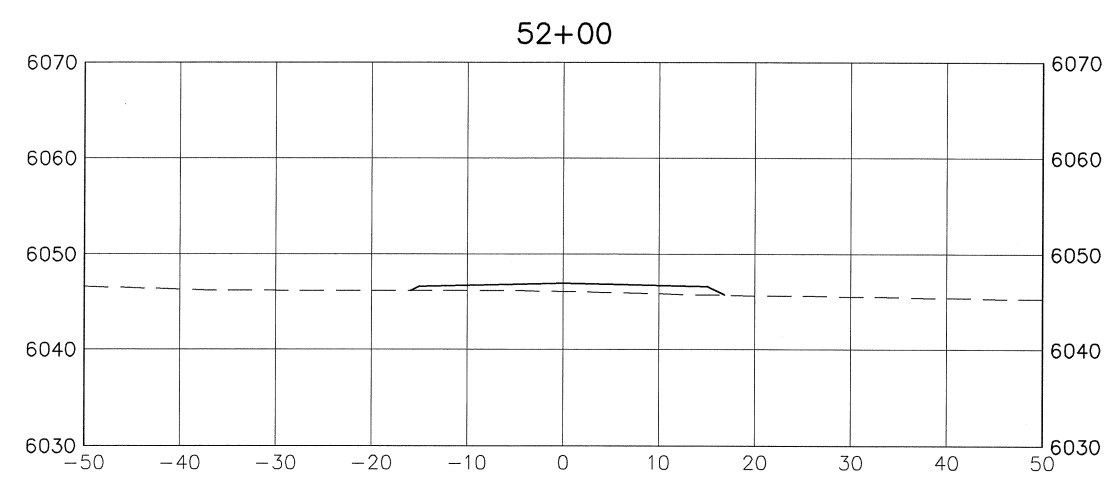
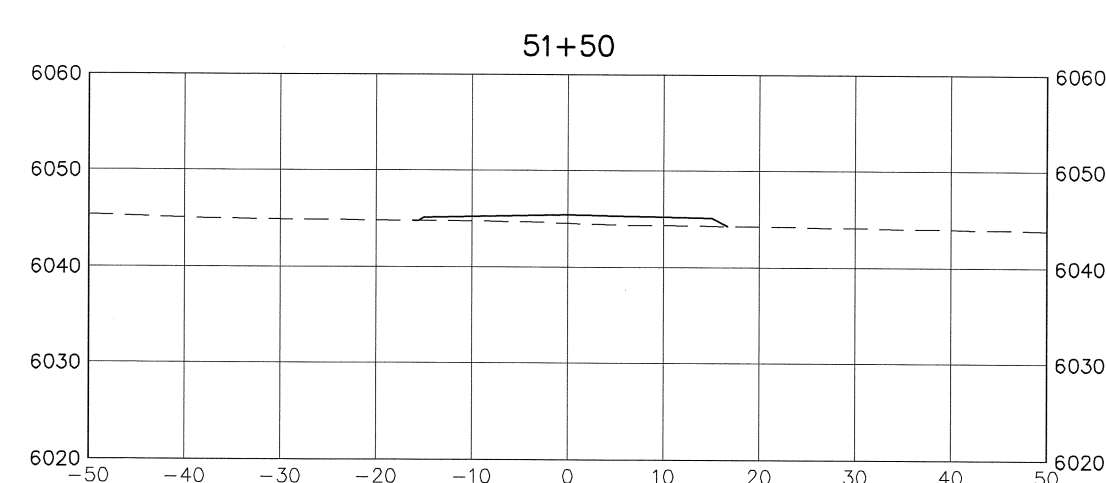
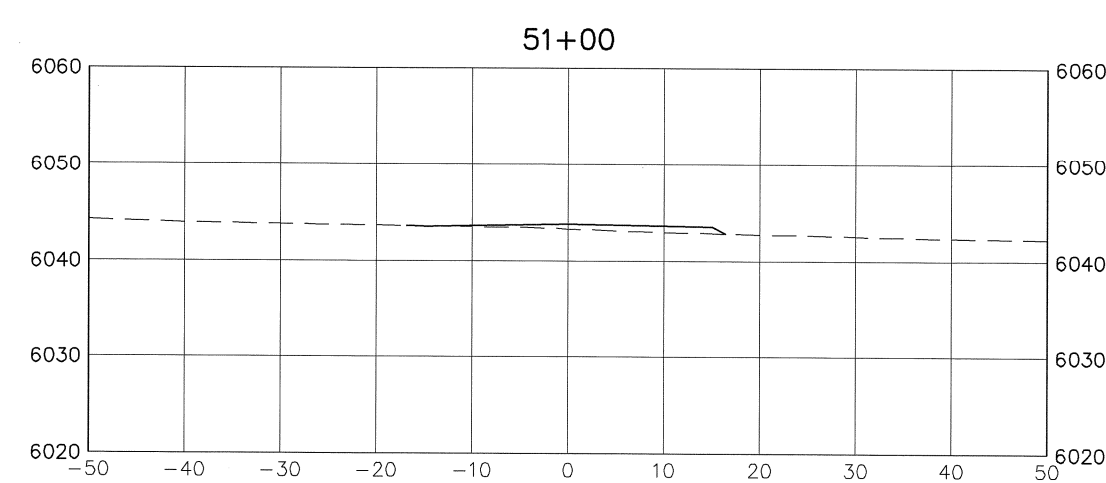
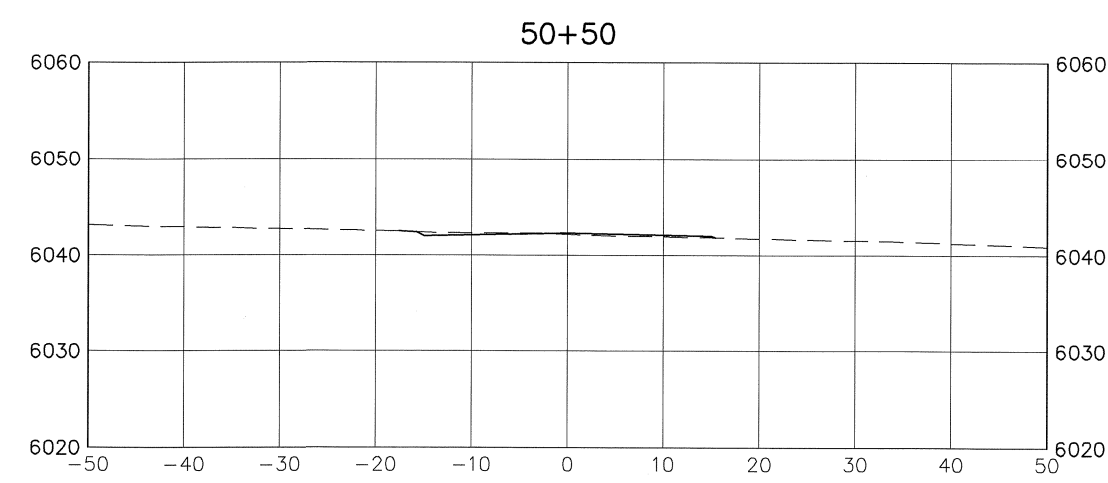
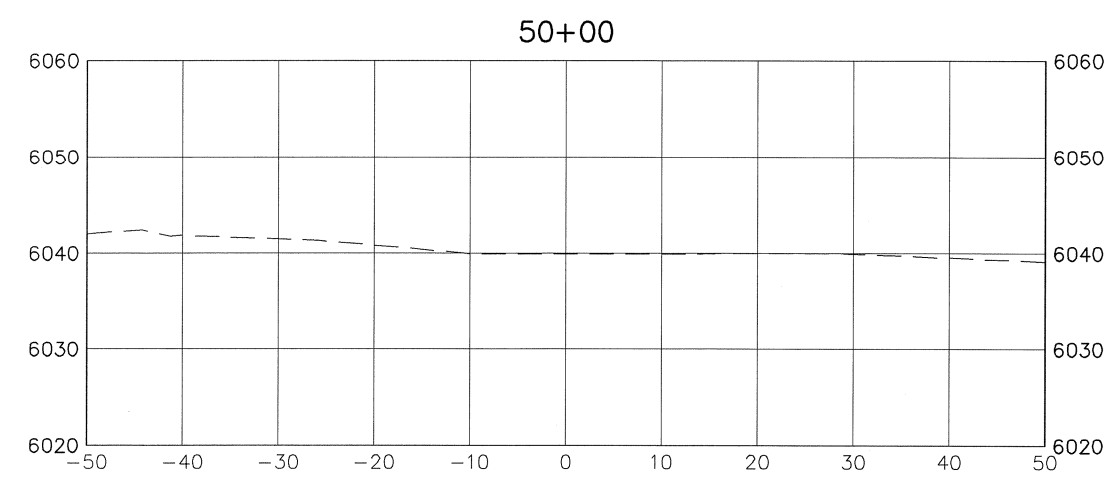
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 2. EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITIES) PROVIDED BY WASATCH SURVEYING.
 3. THE ORIGINAL DRAWING SIZE IS 24" x 36".



REVISIONS		
NO.	DATE	DESCRIPTION

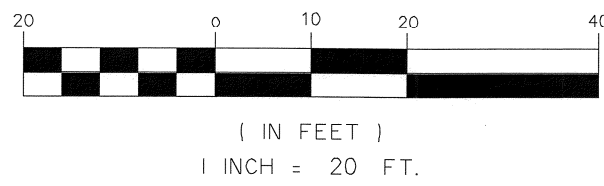


PROJECT #1086-041				DATE ISSUED: 03.23.12	
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CHECKED BY: mjk	VERT: 1" = 20'				

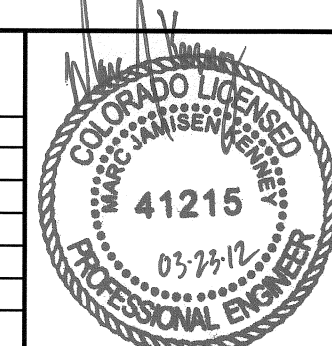


ACCESS ROAD CROSS SECTIONS

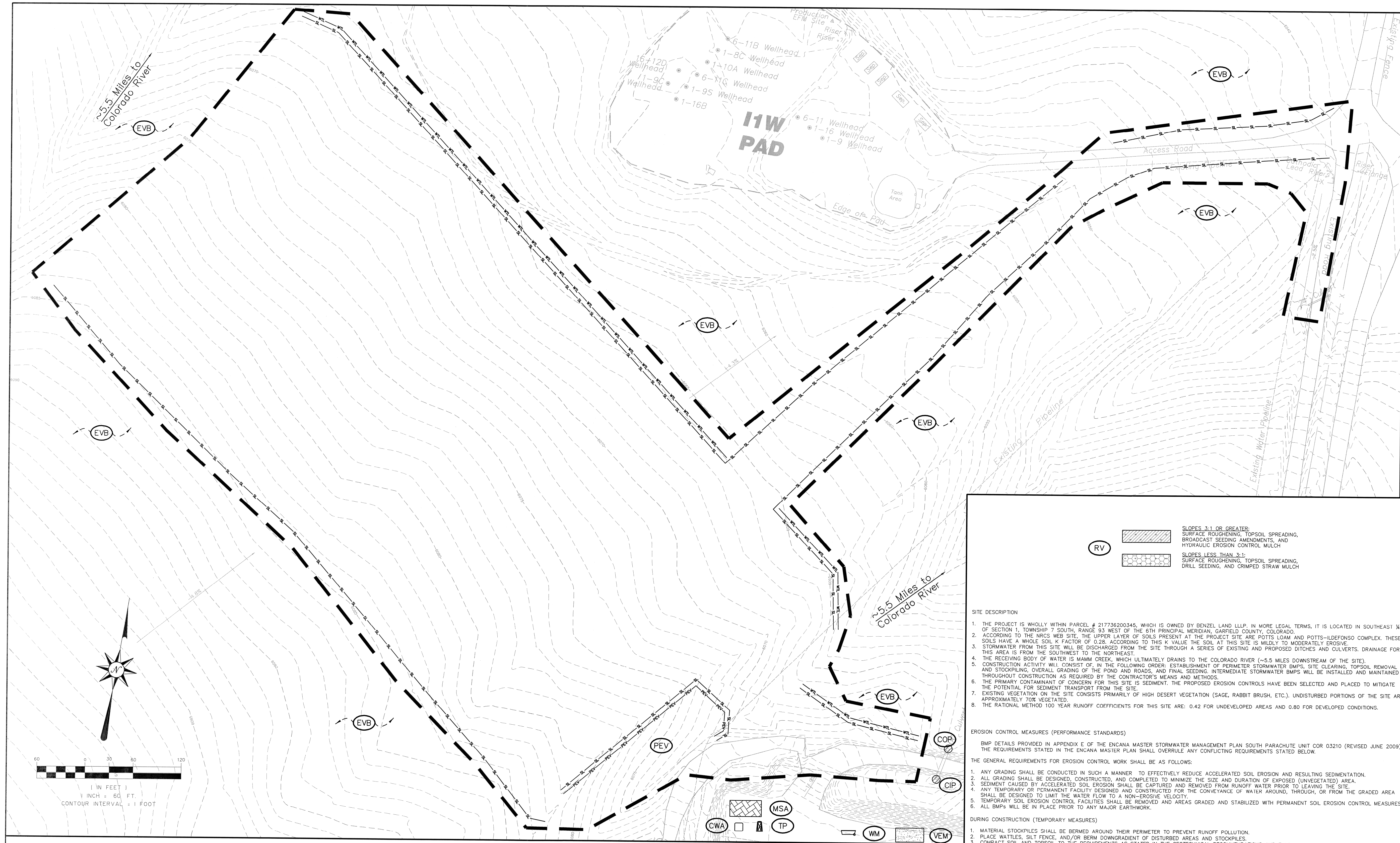
- NOTES:
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 - EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITIES) PROVIDED BY WASATCH SURVEYING.
 - THE ORIGINAL DRAWING SIZE IS 24" x 36".



REVISIONS		
NO.	DATE	DESCRIPTION



Encana Oil & Gas (USA) Inc.				
Hunter Mesa Ponds Access Road Cross Sections				
PROJECT #1086-041		SCALE		DATE ISSUED: 03.23.12
DRAWN BY: nmr		HORIZ: 1" = 20'		SHEET NO. OF SHEETS
CHECKED BY: mjk		VERT: 1" = 20'		



BMP LEGEND		
	ASB	ANCHORED STRAW BALE
	CD	CHECK DAM
	CB	COMPOST BLANKET
	CF	CONSTRUCTION FENCE
	CFB	COMPOST FILTER BERM
	CIP	CULVERT INLET PROTECTION
	CM	CONSTRUCTION MARKER
	COP	CULVERT OUTLET PROTECTION
	CSB	CONSTRUCTION SITE BOUNDARY
	CWA	CONCRETE WASHOUT AREA
	DW	DEWATERING
	DD	DIVERSION DITCH
	ECB	EROSION CONTROL BLANKET
	EVB	EXISTING VEGETATIVE BUFFER
	EVS	EXISTING VEGETATIVE SWALE
	FB	FILTER BERM
	HM	HYDRAULIC MULCH
	LG	LAND GRADING
	LS	LEVEL SPREADER
	MSA	MATERIAL STORAGE AREA
	PEV	PROTECT EXISTING VEGETATION
	RCD	REINFORCED CHECK DAM
	RFX	ROPE FENCE
	ROD	RUN ON DIVERSION DITCH
	RP	RETENTION POND
	RR	RIPRAP/ROCK
	RRB	REINFORCED ROCK BERM
	RRC	RRB FOR CULVERT PROTECTION
	RSD	ROAD SIDE DITCH
	RV	REVEGETATION
	SL	SLASH
	SB	SEDIMENT BASIN
	SCL	SEDIMENT CONTROL LOG/WADDE
	SF	SILT FENCE
	SH	SURFACE HARDENING
	SNW	SEEDING AND MULCHING
	SSB	SNOW STORAGE AREA
	SSB	SOIL SILT BERM
	ST	SEDIMENT TRAP
	SUB	SUBSOIL STOCKPILE
	TER	TERRACING
	TP	TOILETS (PORTABLE)
	TS	TOPSOIL STOCKPILE
	TSD	TEMPORARY SLOPE DRAIN
	TSC	TEMPORARY STREAM CROSSING
	TSW	TOPSOIL WINDROW WITH TEMPORARY HYDRAULIC EROSION CONTROL MULCH
	VB	VEGETATIVE BUFFER
	VTC	VEHICLE TRACKING CONTROL
	VEM	VEHICLE EQUIPMENT & MAINTENANCE
	WB	WATER BAR
	WM	WASTE MANAGEMENT
	WTL	STRAW WATTLE
	WW	VTC WITH WHEEL WASH

- SITE DESCRIPTION**
- THE PROJECT IS WHOLLY WITHIN PARCEL # 217736200345, WHICH IS OWNED BY DENZEL LAND LLP. IN MORE LEGAL TERMS, IT IS LOCATED IN SOUTHEAST ¼ OF SECTION 1, TOWNSHIP 7 SOUTH, RANGE 93 WEST OF THE 6TH PRINCIPAL MERIDIAN, GARFIELD COUNTY, COLORADO.
 - ACCORDING TO THE NRCS WEB SITE, THE UPPER LAYER OF SOILS PRESENT AT THE PROJECT SITE ARE POTTS LOAM AND POTTS-LODEFONSO COMPLEX. THESE SOILS HAVE A WHOLE SOIL K FACTOR OF 0.28. ACCORDING TO THIS K VALUE THE SOIL AT THIS SITE IS MILDLY TO MODERATELY EROSION.
 - STORMWATER FROM THIS SITE WILL BE DISCHARGED FROM THE SITE THROUGH A SERIES OF EXISTING AND PROPOSED DITCHES AND CULVERTS. DRAINAGE FOR THIS AREA IS FROM THE SOUTHWEST TO THE NORTHEAST.
 - THE RECEIVING BODY OF WATER IS MAMM CREEK, WHICH ULTIMATELY DRAINS TO THE COLORADO RIVER (~5.5 MILES DOWNSTREAM OF THE SITE).
 - CONSTRUCTION ACTIVITY WILL CONSIST OF, IN THE FOLLOWING ORDER: ESTABLISHMENT OF PERIMETER STORMWATER BMPs, SITE CLEARING, TOPSOIL REMOVAL AND STOCKPILING, OVERALL GRADING OF THE POND AND ROADS, AND FINAL SEEDING. INTERMEDIATE STORMWATER BMPs WILL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONTRACTOR'S MEANS AND METHODS.
 - THE PRIMARY CONTAMINANT OF CONCERN FOR THIS SITE IS SEDIMENT. THE PROPOSED EROSION CONTROLS HAVE BEEN SELECTED AND PLACED TO MITIGATE THE POTENTIAL FOR SEDIMENT TRANSPORT FROM THE SITE.
 - EXISTING VEGETATION ON THE SITE CONSISTS PRIMARILY OF HIGH DESERT VEGETATION (SAGE, RABBIT BRUSH, ETC.). UNDISTURBED PORTIONS OF THE SITE ARE APPROXIMATELY 70% VEGETATED.
 - THE RATIONAL METHOD 100 YEAR RUNOFF COEFFICIENTS FOR THIS SITE ARE: 0.42 FOR UNDEVELOPED AREAS AND 0.80 FOR DEVELOPED CONDITIONS.

EROSION CONTROL MEASURES (PERFORMANCE STANDARDS)

BMP DETAILS PROVIDED IN APPENDIX E OF THE ENCANA MASTER STORMWATER MANAGEMENT PLAN SOUTH PARACHUTE UNIT COR 03210 (REVISED JUNE 2009). THE REQUIREMENTS STATED IN THE ENCANA MASTER PLAN SHALL OVERRULE ANY CONFLICTING REQUIREMENTS STATED BELOW.

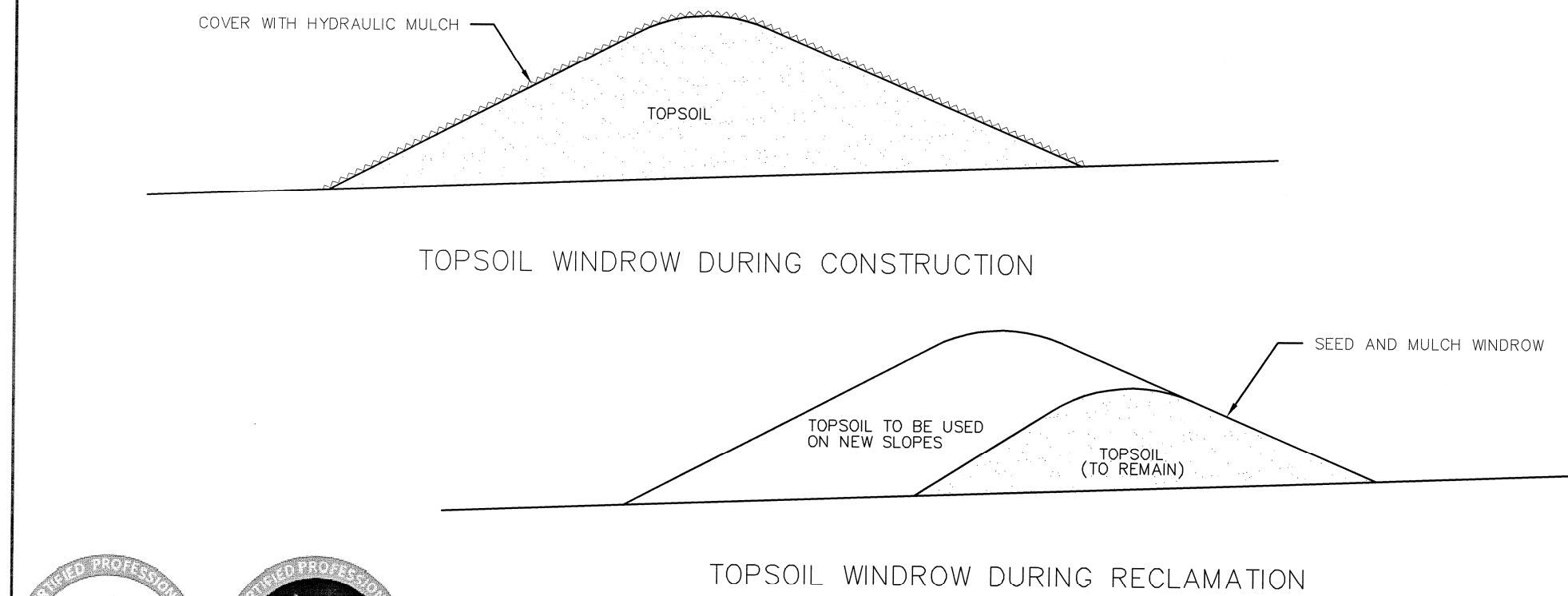
- THE GENERAL REQUIREMENTS FOR EROSION CONTROL WORK SHALL BE AS FOLLOWS:**
- ANY GRADING SHALL BE CONDUCTED IN SUCH A MANNER TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
 - ALL GRADING SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED TO MINIMIZE THE SIZE AND DURATION OF EXPOSED (UNVEGETATED) AREA.
 - SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE CAPTURED AND REMOVED FROM RUNOFF WATER PRIOR TO LEAVING THE SITE.
 - ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM THE GRADED AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
 - TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES.
 - ALL BMPs WILL BE IN PLACE PRIOR TO ANY MAJOR EARTHWORK.

- DURING CONSTRUCTION (TEMPORARY MEASURES)**
- MATERIAL STOCKPILES SHALL BE BERMED AROUND THEIR PERIMETER TO PREVENT RUNOFF POLLUTION.
 - PLACE WATTLES, SILT FENCE, AND/OR BERM DOWNGRADIENT OF DISTURBED AREAS AND STOCKPILES.
 - COMPACT SOIL AND TOPSOIL TO THE REQUIREMENTS AS STATED IN THE GEOTECHNICAL RECOMMENDATIONS AND FINISH GRADE TO ELEVATIONS SHOWN ON THE SITE PLAN. ELIMINATE ANY LOW SPOTS PRIOR TO FINAL STABILIZATION.
 - CONTRACTOR SHALL HAVE A WATER TRUCK MADE AVAILABLE TO ASSIST IN CONTROLLING MOISTURE CONTENT AND DUST AND WIND EROSION.
 - SOILS THAT WILL BE STOCKPILED FOR MORE THAN THIRTY (30) DAYS SHALL BE SEED AND MULCHED WITHIN FOURTEEN (14) DAYS OF STOCKPILE CONSTRUCTION. NO STOCKPILES SHALL BE PLACED WITHIN ONE HUNDRED (100) FEET OF A DRAINAGE WAY UNLESS APPROVED BY THE CSWMP ADMINISTRATOR.
 - THE CLEANING OF CONCRETE DELIVERY TRUCK CHUTES IS RESTRICTED TO APPROVED CONCRETE WASH OUT LOCATIONS ON THE JOB SITE. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SYSTEM IS PROHIBITED. ALL CONCRETE WASTE SHALL BE PROPERLY CLEANED UP AND DISPOSED AT AN APPROPRIATE LOCATION.

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- ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE REVEGETATED WITH A CERTIFIED WEED-FREE NATIVE SEED MIX APPROPRIATE FOR SITE SOILS AND CONDITIONS. THESE AREAS SHALL BE MAINTAINED UNTIL A VEGETATIVE COVER OR AT LEAST 70% OF PRE-CONSTRUCTION CONDITIONS EXISTS. IF NECESSARY, ADDITIONAL SEED, MULCH, AND/OR FERTILIZER SHOULD BE APPLIED TO ESTABLISH SAID VEGETATIVE COVER.

- MAINTENANCE**
- ALL EROSION CONTROL MEASURES SHOULD BE INSPECTED TO DETERMINE IF REPAIRS OR SEDIMENT REMOVAL IS NECESSARY. THE MAXIMUM TIME BETWEEN INSPECTIONS SHALL BE 7 DAYS.
 - EROSION CONTROL MEASURES ARE ALSO TO BE INSPECTED WITHIN 24 HOURS OF A STORM THAT PRODUCES RUNOFF, OR MODERATE SNOW MELT.
 - REPAIRS OR MODIFICATIONS TO THE EROSION CONTROL MEASURES SHALL BE COMPLETED IMMEDIATELY. REPAIRS AND MODIFICATIONS SHALL BE DOCUMENTED (WHAT, WHY, & WHEN).
 - SILT AND SEDIMENT SHALL BE REMOVED IF THERE IS A RISK OF SEDIMENT BYPASSING THE EROSION CONTROL FEATURE. SPECIFICALLY, SEDIMENT BUILDUP SHALL NOT EXCEED 6 INCHES ON SILT FENCE, 1/3 THE HEIGHT OF ANY CHECK DAM OR BERM (INCLUDING INLET PROTECTION), OR WHEN SEDIMENT WITHIN A SEDIMENT BASIN GETS WITHIN 6 INCHES OF THE OUTLET INVERT.
 - WHEN THE TEMPORARY MEASURES ARE TO BE REMOVED, ANY SILT AND SEDIMENT DEPOSITS SHALL BE REMOVED AND SPREAD EVENLY IN OPEN AREAS AND SEED AS NECESSARY.

- GENERAL NOTES**
- SWMP ADMINISTRATOR (LOCAL CONTACT): KATHY KILOH (970) 285-2626.
 - THE CONSTRUCTION SITE BOUNDARY IS EQUAL TO THE ESTIMATED TOTAL AREA OF DISTURBANCE WHICH IS 14.2 ACRES. THE TOTAL AREA TO BE RE-VEGETATED IS APPROXIMATELY 1.5 ACRES.
 - AT ALL TIMES DURING CONSTRUCTION, EROSION AND SEDIMENT CONTROL SHALL BE MAINTAINED BY THE CONTRACTOR.
 - EROSION CONTROL MEASURES SHALL BE INSTALLED AS THE WORK (GRADING) PROGRESSES.
 - DETAILS SHOWN ARE SCHEMATIC ONLY. ADJUSTMENTS MAY BE NECESSARY TO FIT ACTUAL FIELD CONDITIONS.
 - NEGATIVE IMPACTS TO DOWNSTREAM AREAS (OR RECEIVING WATERS) CAUSED BY THE OVERLOT GRADING AND/OR CONSTRUCTION TO BE MONITORED AND CORRECTED BY THE CONTRACTOR.
 - THE FIRST BMP TO BE INSTALLED ON THE SITE SHALL BE CONSTRUCTION FENCE, MARKERS, OR OTHER APPROVED MEANS OF DEFINING THE LIMITS OF CONSTRUCTION.
 - NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS.
 - ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE THROUGH THE SWMP-APPROVED ACCESS POINT.
 - THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE FROM ABOVE GROUND STRUCTURES, MARKINGS BY THE RESPECTIVE UTILITY COMPANIES AND/OR THEIR LOCATOR SERVICES, AND DRAWINGS PROVIDED BY THE UTILITY COMPANIES. NO EXCAVATIONS WERE MADE DURING THIS SURVEY TO DETERMINE EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES AND STRUCTURES. ACTUAL LOCATIONS MAY VARY SLIGHTLY FROM THOSE AS SHOWN HEREON AND ADDITIONAL UNDERGROUND UTILITIES MAY EXIST. EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION ON THIS PROPERTY.
 - EXISTING SURVEY INFORMATION (INCLUDING EXISTING UTILITIES) PROVIDED BY WASATCH SURVEYING, INC.
 - ORIGINAL DRAWING SIZE IS 24"x36".
 - STAKING INFORMATION TO BE PROVIDED TO SURVEYOR/CONTRACTOR BY RIVER CITY CONSULTANTS. PLEASE CONTACT RIVER CITY CONSULTANTS TO OBTAIN THE INFORMATION.



Encana Oil & Gas (USA) Inc.

Hunter Mesa Ponds
Pre-Construction Erosion Control Plan

PROJECT #1088-043
DRAWN BY: nmr
CHECKED BY: mjk

SCALE: 1" = 60' n/a
DATE ISSUED: 03.23.12
SHEET NO. 1 OF 3 SHEETS

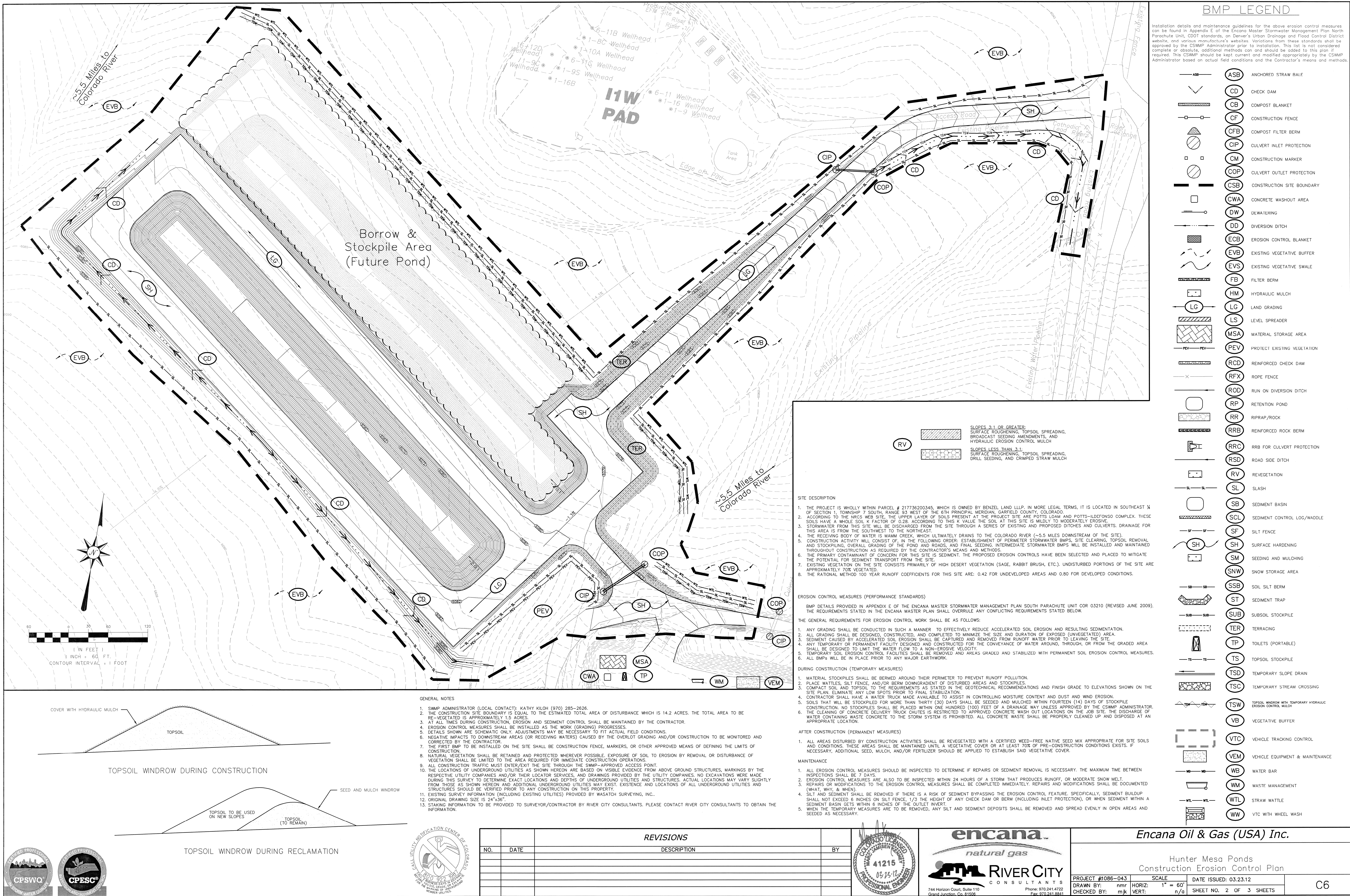
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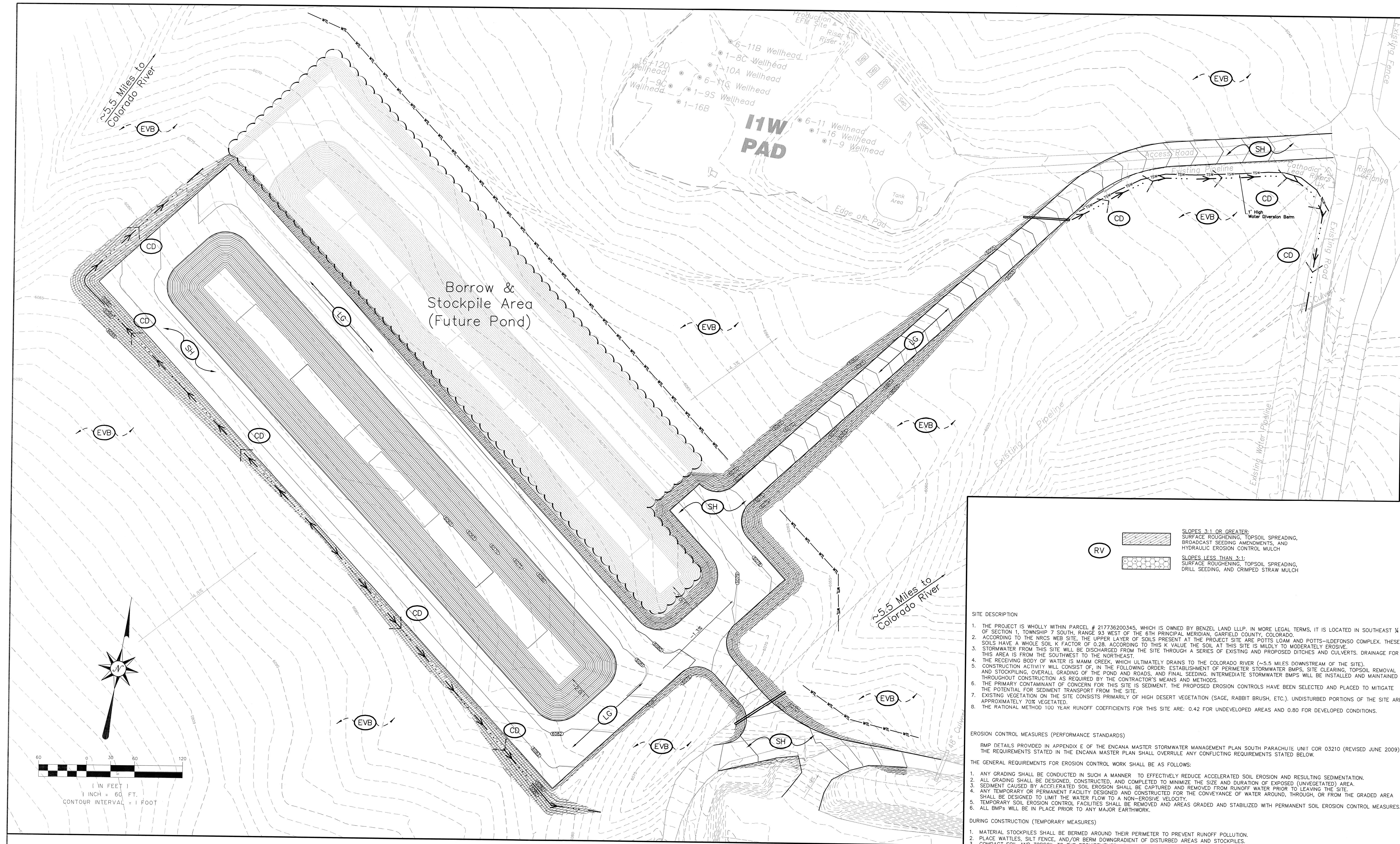
REVISIONS			
NO.	DATE	DESCRIPTION	BY

41215
03-23-12

744 Horizon Court, Suite 110
Grand Junction, Co. 81506

Phone: 970.241.4722
Fax: 970.241.8841





BMP LEGEND

Installation details and maintenance guidelines for the above erosion control measures can be found in Appendix E of the Encana Master Stormwater Management Plan North Parachute Unit, CDOT standards, on Denver's Urban Drainage and Flood Control District website, and various manufacturer's websites. Variations from these standards shall be approved by the CSWMP Administrator prior to installation. This list is not considered complete or absolute, additional methods can and should be added to this plan if required. This CSWMP should be kept current and modified appropriately by the CSWMP Administrator based on actual field conditions and the Contractor's means and methods.

- | | | |
|--|-------|--|
| | (ASB) | ANCHORED STRAW BALE |
| | (CD) | CHECK DAM |
| | (CB) | COMPOST BLANKET |
| | (CF) | CONSTRUCTION FENCE |
| | (CFB) | COMPOST FILTER BERM |
| | (CIP) | CULVERT INLET PROTECTION |
| | (CM) | CONSTRUCTION MARKER |
| | (COP) | CULVERT OUTLET PROTECTION |
| | (CSB) | CONSTRUCTION SITE BOUNDARY |
| | (CWA) | CONCRETE WASHOUT AREA |
| | (DW) | DEWATERING |
| | (DD) | DIVERSION DITCH |
| | (ECB) | EROSION CONTROL BLANKET |
| | (EVB) | EXISTING VEGETATIVE BUFFER |
| | (EVS) | EXISTING VEGETATIVE SWALE |
| | (FB) | FILTER BERM |
| | (HM) | HYDRAULIC MULCH |
| | (LG) | LAND GRADING |
| | (LS) | LEVEL SPREADER |
| | (MSA) | MATERIAL STORAGE AREA |
| | (PEV) | PROTECT EXISTING VEGETATION |
| | (RCD) | REINFORCED CHECK DAM |
| | (RFX) | ROPE FENCE |
| | (ROD) | RUN ON DIVERSION DITCH |
| | (RP) | RETENTION POND |
| | (RR) | RIPRAP/ROCK |
| | (RRB) | REINFORCED ROCK BERM |
| | (RRC) | RRB FOR CULVERT PROTECTION |
| | (RSD) | ROAD SIDE DITCH |
| | (RV) | REVEGETATION |
| | (SL) | SLASH |
| | (SB) | SEDIMENT BASIN |
| | (SCL) | SEDIMENT CONTROL LOG/WADDLE |
| | (SF) | SILT FENCE |
| | (SH) | SURFACE HARDENING |
| | (SM) | SEEDING AND MULCHING |
| | (SNW) | SNOW STORAGE AREA |
| | (SSB) | SOIL SILT BERM |
| | (ST) | SEDIMENT TRAP |
| | (SUB) | SUBSOIL STOCKPILE |
| | (TER) | TERRACING |
| | (TP) | TOILETS (PORTABLE) |
| | (TS) | TOPSOIL STOCKPILE |
| | (TSD) | TEMPORARY SLOPE DRAIN |
| | (TSC) | TEMPORARY STREAM CROSSING |
| | (TSW) | TOPSOIL WINDROW WITH TEMPORARY HYDRAULIC EROSION CONTROL MULCH |
| | (VB) | VEGETATIVE BUFFER |
| | (VTC) | VEHICLE TRACKING CONTROL |
| | (VEM) | VEHICLE EQUIPMENT & MAINTENANCE |
| | (WB) | WATER BAR |
| | (WM) | WASTE MANAGEMENT |
| | (WTL) | STRAW WATTLE |
| | (WW) | VTC WITH WHEEL WASH |

SITE DESCRIPTION

- THE PROJECT IS WHOLLY WITHIN PARCEL # 217736200345, WHICH IS OWNED BY BENZEL LAND LLP. IN MORE LEGAL TERMS, IT IS LOCATED IN SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 7 SOUTH, RANGE 93 WEST OF THE 6TH PRINCIPAL MERIDIAN, GARFIELD COUNTY, COLORADO.
- ACCORDING TO THE NRCS WEB SITE, THE UPPER LAYER OF SOILS PRESENT AT THE PROJECT SITE ARE POTTS LOAM AND POTTS-ILDEFONSO COMPLEX. THESE SOILS HAVE A WHOLE SOIL K FACTOR OF 0.28. ACCORDING TO THIS K VALUE THE SOIL AT THIS SITE IS MILDLY TO MODERATELY ERODIBLE.
- STORMWATER FROM THIS SITE WILL BE DISCHARGED FROM THE SITE THROUGH A SERIES OF EXISTING AND PROPOSED DITCHES AND CULVERTS. DRAINAGE FOR THIS AREA IS FROM THE SOUTHWEST TO THE NORTHEAST.
- THE RECEIVING BODY OF WATER IS MAMM CREEK, WHICH ULTIMATELY DRAINS TO THE COLORADO RIVER (~5.5 MILES DOWNSTREAM OF THE SITE).
- CONSTRUCTION ACTIVITIES WILL CONSIST OF, IN THE FOLLOWING ORDER: ESTABLISHMENT OF PERIMETER STORMWATER BMPs, SITE CLEARING, TOPSOIL REMOVAL AND STOCKPILING, OVERALL GRADING OF THE POND AND ROADS, AND FINAL SEEDING. INTERMEDIATE STORMWATER BMPs WILL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION AS REQUIRED BY THE CONTRACTOR'S MEANS AND METHODS.
- THE PRIMARY CONTAMINANT OF CONCERN FOR THIS SITE IS SEDIMENT. THE PROPOSED EROSION CONTROLS HAVE BEEN SELECTED AND PLACED TO MITIGATE THE POTENTIAL FOR SEDIMENT TRANSPORT FROM THE SITE.
- EXISTING VEGETATION ON THE SITE CONSISTS PRIMARILY OF HIGH DESERT VEGETATION (SAGE, RABBIT BRUSH, ETC.). UNDISTURBED PORTIONS OF THE SITE ARE APPROXIMATELY 70% VEGETATED.
- THE RATIONAL METHOD 100 YEAR RUNOFF COEFFICIENTS FOR THIS SITE ARE: 0.42 FOR UNDEVELOPED AREAS AND 0.80 FOR DEVELOPED CONDITIONS.

EROSION CONTROL MEASURES (PERFORMANCE STANDARDS)

BMP DETAILS PROVIDED IN APPENDIX E OF THE ENCANA MASTER STORMWATER MANAGEMENT PLAN SOUTH PARACHUTE UNIT COR 03210 (REVISED JUNE 2009). THE REQUIREMENTS STATED IN THE ENCANA MASTER PLAN SHALL OVERRULE ANY CONFLICTING REQUIREMENTS STATED BELOW.

THE GENERAL REQUIREMENTS FOR EROSION CONTROL WORK SHALL BE AS FOLLOWS:

- ANY GRADING SHALL BE CONDUCTED IN SUCH A MANNER TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
- ALL GRADING SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED TO MINIMIZE THE SIZE AND DURATION OF EXPOSED (UNVEGETATED) AREA.
- SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE CAPTURED AND REMOVED FROM RUNOFF WATER PRIOR TO LEAVING THE SITE.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM THE GRADED AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES.
- ALL BMPs WILL BE IN PLACE PRIOR TO ANY MAJOR EARTHWORK.

DURING CONSTRUCTION (TEMPORARY MEASURES)

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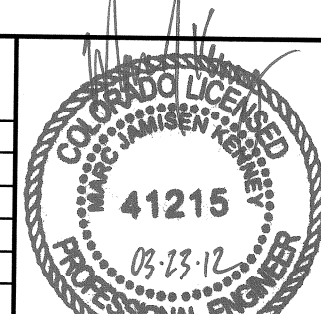
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REVISIONS

NO.	DATE	DESCRIPTION	BY



Encana Oil & Gas (USA) Inc.

Hunter Mesa Ponds
Post-Construction Erosion Control Plan

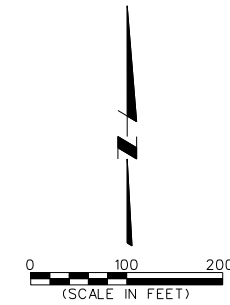
PROJECT #1086-043
DRAWN BY: nmr
CHECKED BY: mjk
SCALE: 1" = 60'
DATE ISSUED: 03.23.12
SHEET NO. 3 OF 3 SHEETS

Encana Natural Gas
Hunter Mesa Water Park
Parachute, Colorado

**COGCC PERMIT
SUBMITTAL**

MARCH 2013






G-1	COVER SHEET
G-2	SHEET INDEX, PROJECT MAP
G-3	PHASE I FACILITIES LAYOUT
G-4	PHASE II FACILITIES LAYOUT
G-5	PHASE III FACILITIES LAYOUT
G-6	FIRE ACCESS PLAN WATER TREATMENT FACILITY
<u>PROCESS</u>	
C-1	SOUTH POND - PLAN AND SECTIONS
C-2	MIDDLE POND - PLAN AND SECTIONS
C-3	NORTH POND - PLAN AND SECTIONS
C-4	UPPER POND - PLAN AND SECTIONS
C-5	LOWER POND - PLAN AND SECTIONS
C-6	OFF-LOAD PAD PLAN
C-7	OFF-LOAD PAD SECTION
C-8	POND LINER & COVER STANDARD DETAILS

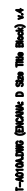
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WATER TREATMENT FACILITY
SOUTH POND
MIDDLE POND
NORTH POND


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CAUTION : READ BEFORE EXCAVATION ALL EXCAVATIONS MUST BE CARRIED OUT AS PER "ENCANA'S GROUND DISTURBANCE PRACTICE"																				
PERMIT STAMP AND PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(s)																				

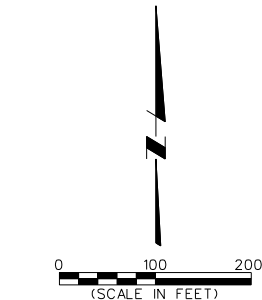
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EPCN CL.			
TITLE			
SHEET INDEX, PROJECT MAP			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS FILE NO. HTMP-G-2



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EPCN CL.			
TITLE PHASE I FACILITIES LAYOUT			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS FILE NO. HTMP-G-3

Plot Date: 3/23/2013 9:27:27 AM



PHASE I
WATER TREATMENT
FACILITIES
(SEE SHT G-3)

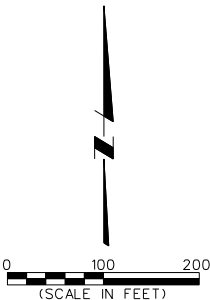
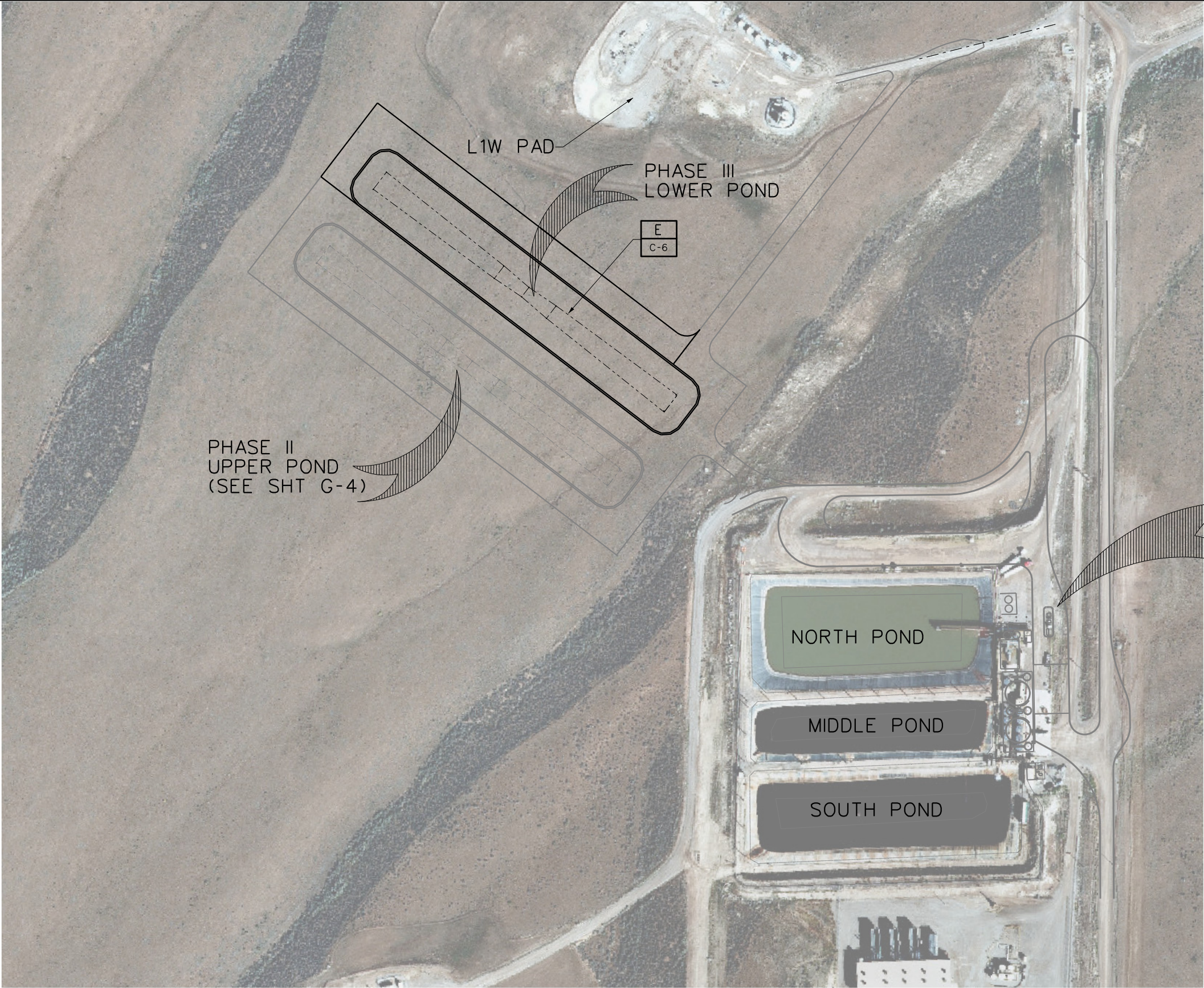
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		SITE LSO.			
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EPCM Co.					
TITLE					
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AREA	HUNTER MESA WATER PARK COGCC	CLASS	FILE NO.		
	MESA WATER PARK PERMIT SUBMITTAL		HMP-G-4		

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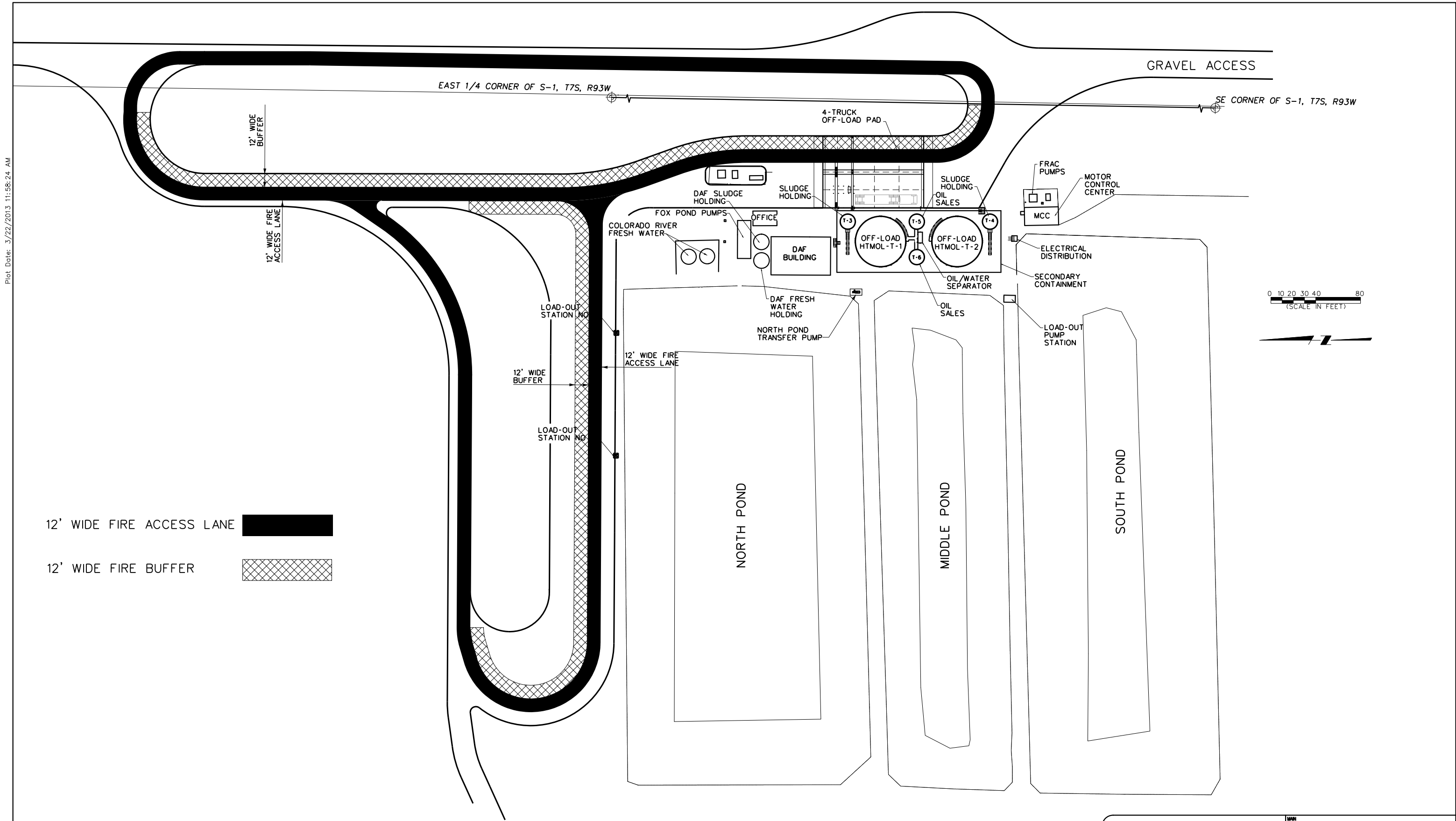
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		SITE LSO.	
		SCALE	
EPCM Co.		EPCM No.	
TITLE			
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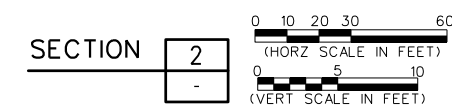
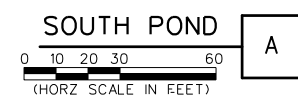
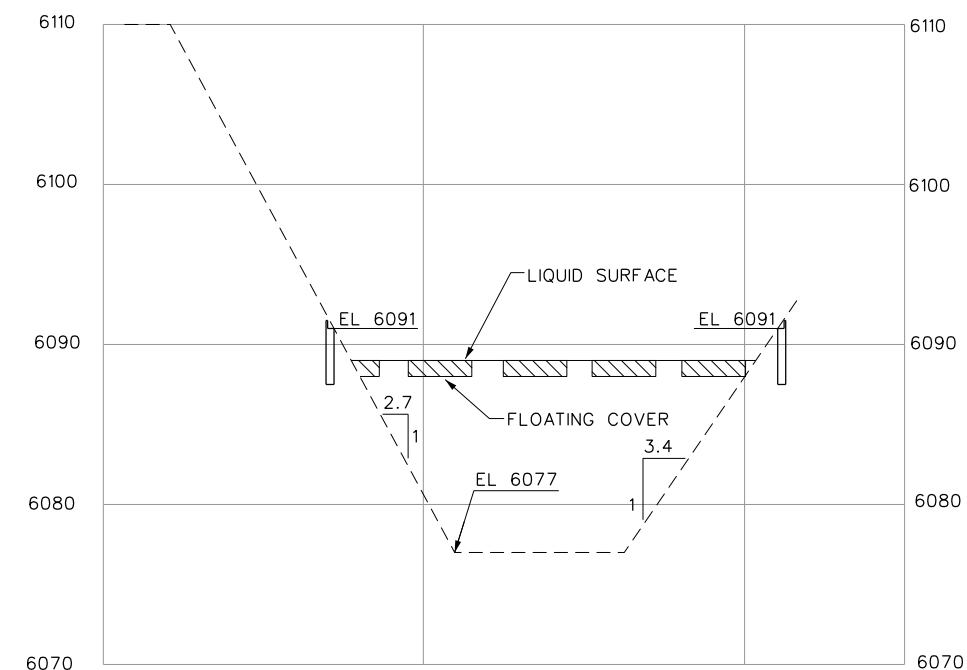
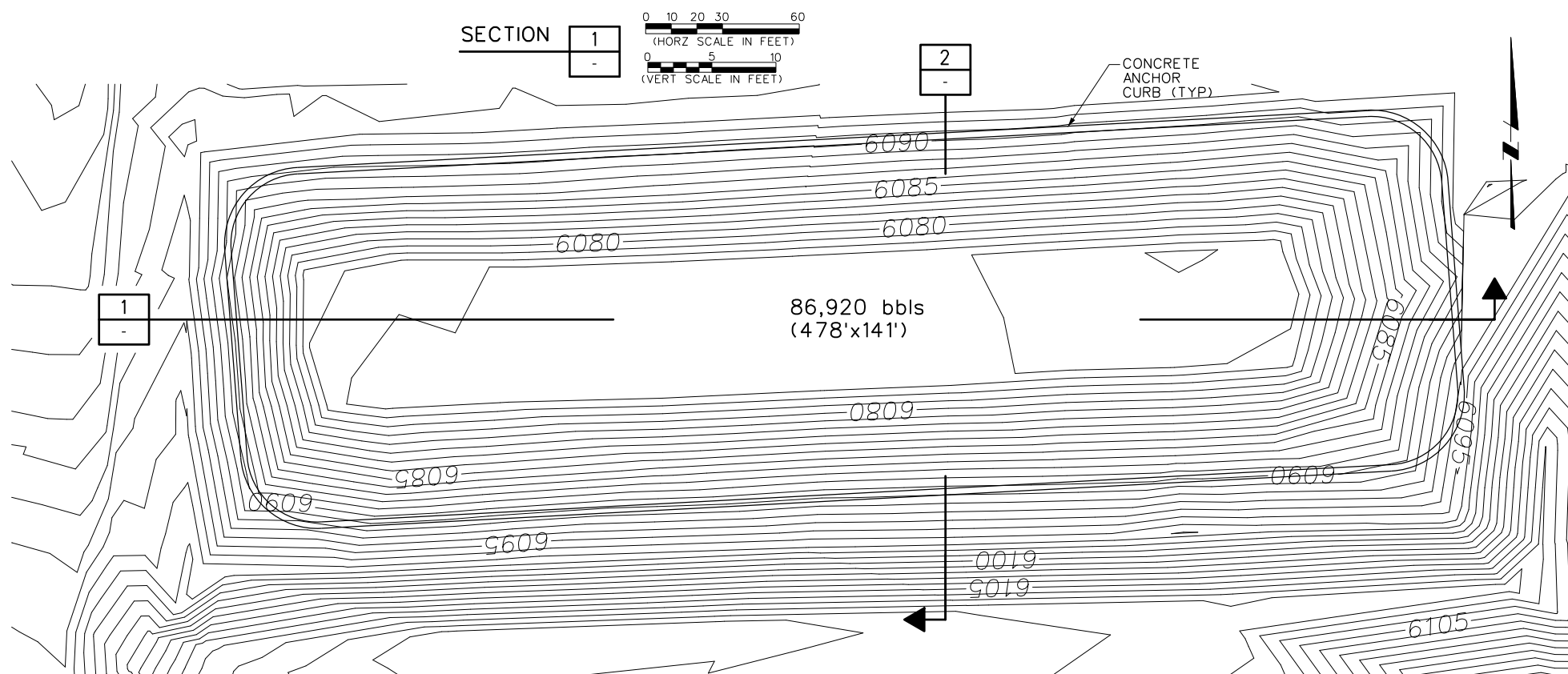
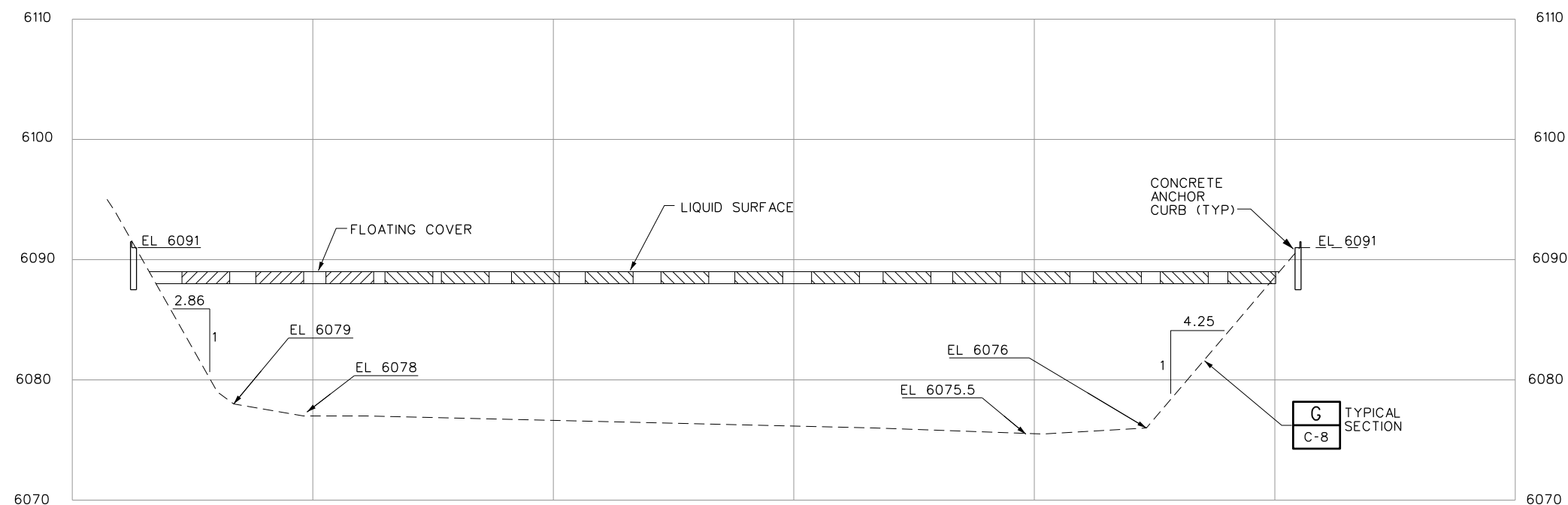
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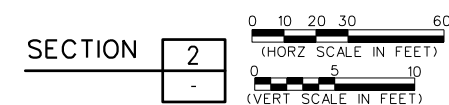
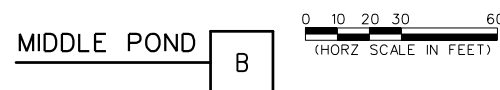
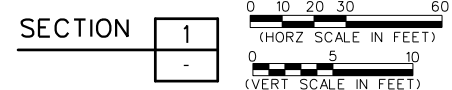
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			NO.	DATE	PROJECT DESCRIPTION	PROJ.	AFE	EPCM Co.	EPCM No.	APPD.	ISSUE STAGE	DATE	BY	CHKD.	APPD.	PERMIT STAMP	ENGINEER'S STAMP				
											REV. NUMBER					PERMIT STAMP AND PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(s)	encana	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL	CLASS	FILE NO.	HTMP-G-6
CAUTION : READ BEFORE EXCAVATION ALL EXCAVATIONS MUST BE CARRIED OUT AS PER "ENCANA'S GROUND DISTURBANCE PRACTICE"																					


Drawings Must Comply with EnCana Drafting Standards (EOA-A-1)

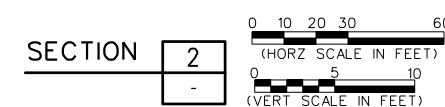
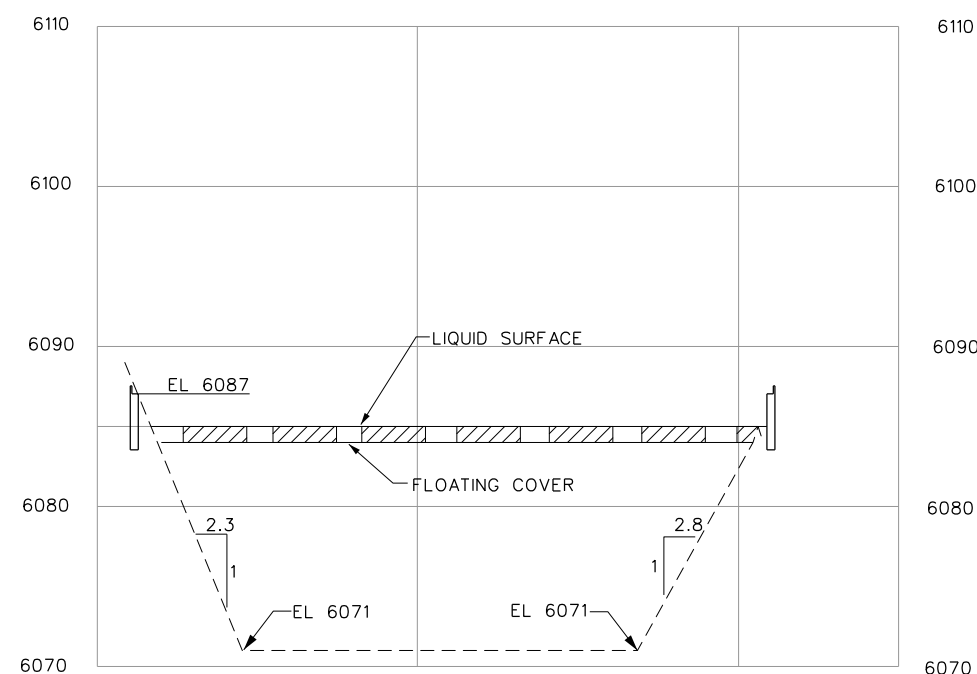
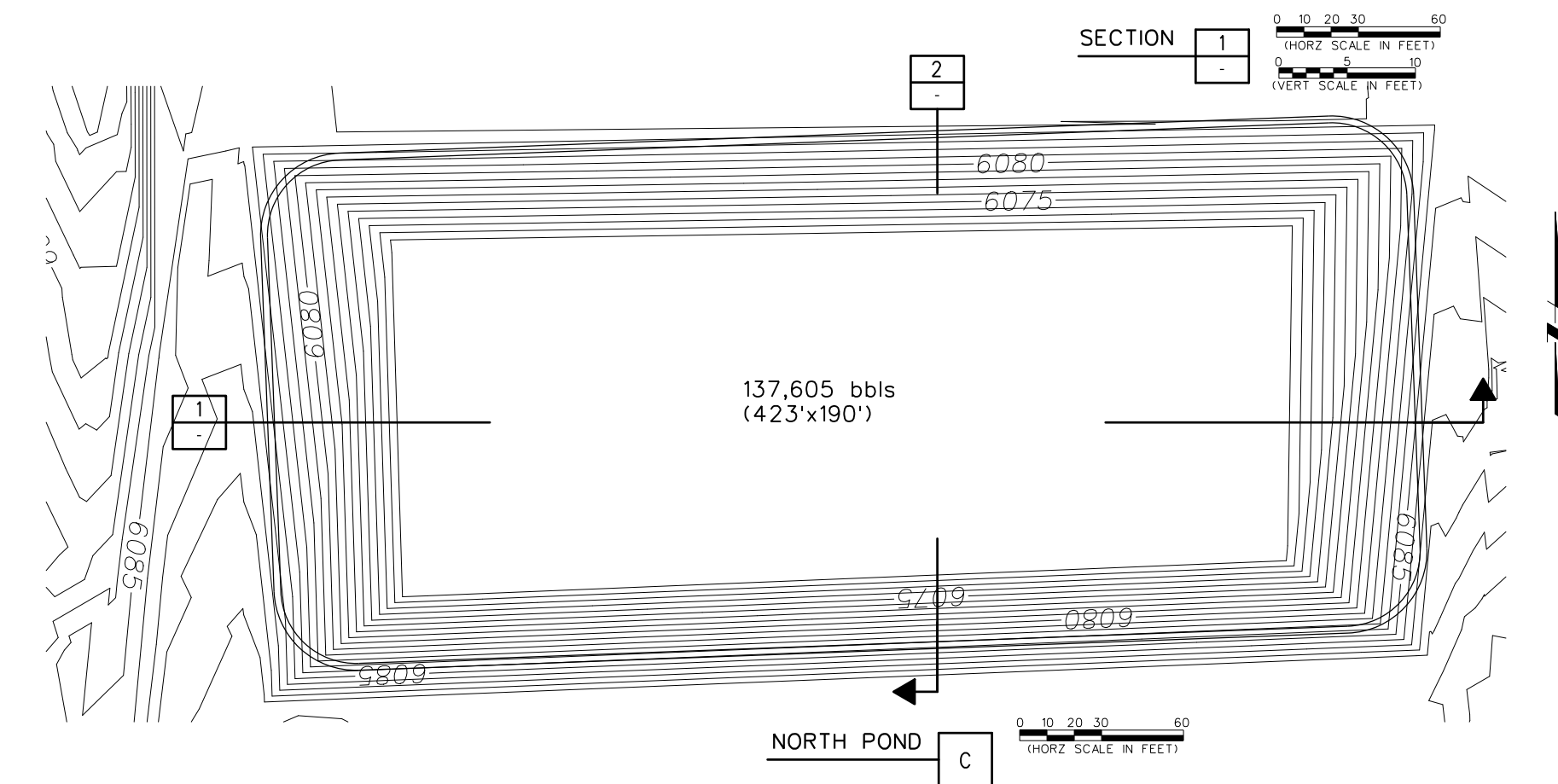


Plot Date: 3/23/2013 9:43:32 AM																		
REFERENCE DRAWINGS		DWG. NO.	NO.	DATE	PROJECT DESCRIPTION	PROJ.	AFE	EPCM Co.	EPCM No.	APPD.	ISSUE	STAGE	DATE	BY	CHKD.	APPD.	PERMIT STAMP	ENGINEER'S STAMP
											REV. NUMBER							
CAUTION : READ BEFORE EXCAVATION ALL EXCAVATIONS MUST BE CARRIED OUT AS PER "ENCANA'S GROUND DISTURBANCE PRACTICE"																		
																	PERMIT STAMP AND PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(s)	


		MAIN FAC.		
		MAIN LSD.		
		FAC. TYPE		
		SITE LSD.		
		SCALE		EPCM No.
EPCM Co.				
TITLE				
SOUTH POND PLAN AND SECTIONS				
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS	FILE NO. HTMP-C-1

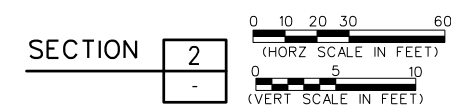
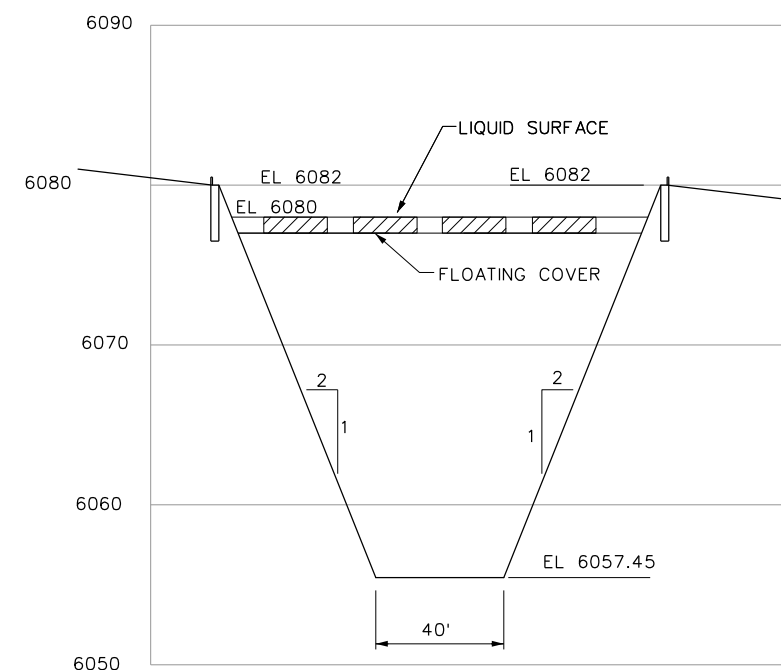
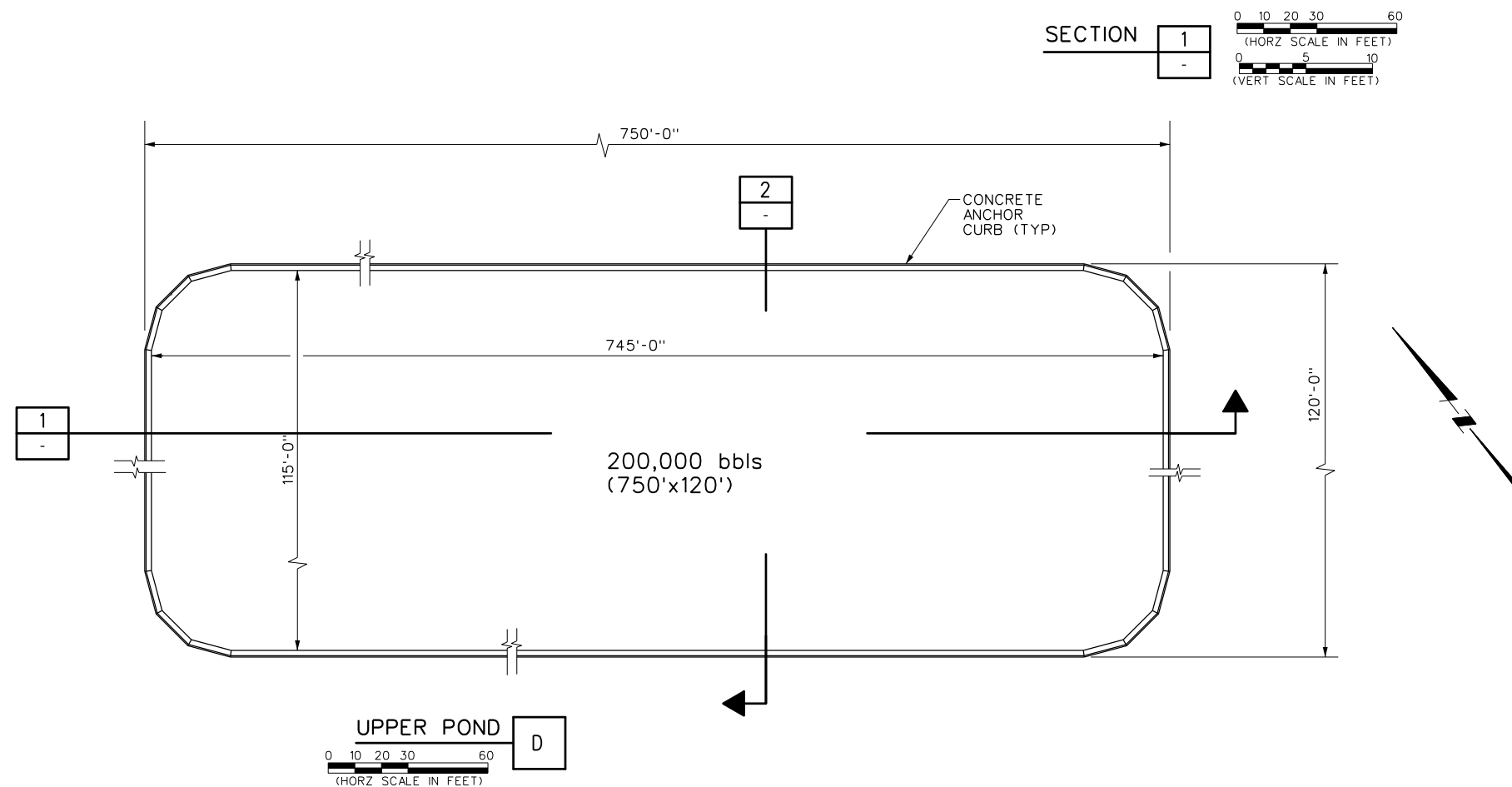
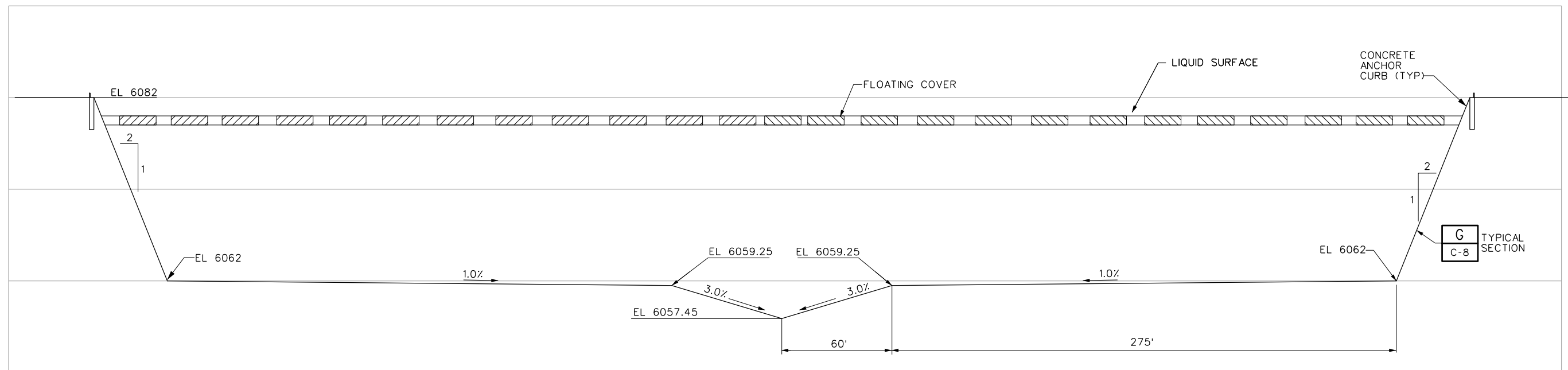



		MAIN FAC.	
		MAIN LSD.	
		FAC. TYPE	
		SITE LSD.	
		SCALE	EPDM No.
EPCM Co. _____			
TITLE <div style="text-align: center;">MIDDLE POND PLAN AND SECTIONS</div>			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS FILE NO. <div style="text-align: center;">HTMP-C-2</div>

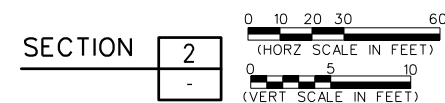
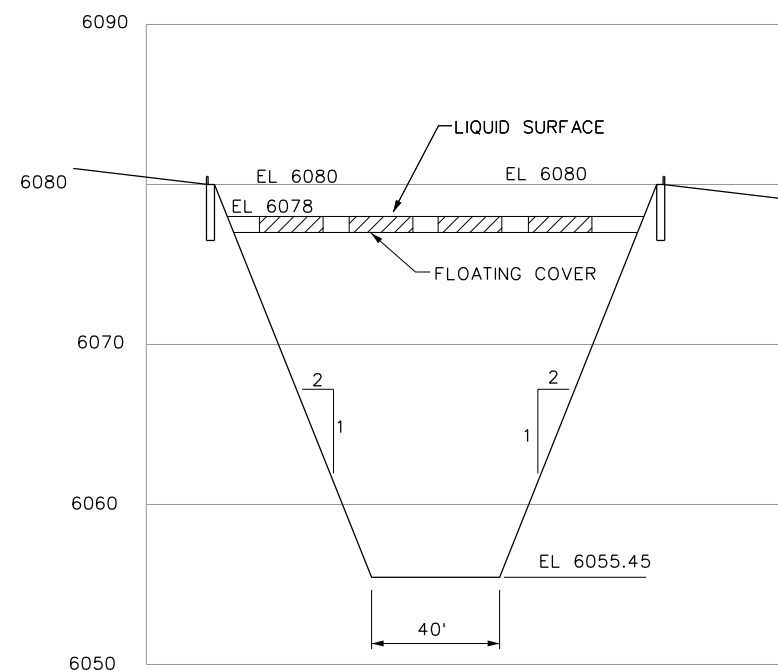
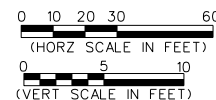



Plot Date: 3/23/2013 9:46:22 AM																			
REFERENCE DRAWINGS		DWG. NO.	NO.	DATE	PROJECT DESCRIPTION	PROJ.	AFE	EPCM Co.	EPCM No.	APPD.	REV. NUMBER	ISSUE STAGE	DATE	BY	CHKD.	APPD.	PERMIT STAMP	ENGINEER'S STAMP	
CAUTION : READ BEFORE EXCAVATION ALL EXCAVATIONS MUST BE CARRIED OUT AS PER "ENCANA'S GROUND DISTURBANCE PRACTICE"																			
																PERMIT STAMP AND PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(s)			

	MAIN FAC.	
	MAIN LSD.	
	FAC. TYPE	
	SITE LSD.	
	SCALE	EPCM No.
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>EPDM Co.</p> <p>TITLE</p> </div> <div style="width: 40%; text-align: center;"> <p>NORTH POND PLAN AND SECTIONS</p> </div> <div style="width: 30%;"> <p>CLASS</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 60%;"> <p>AREA HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL</p> </div> <div style="width: 40%; text-align: right;"> <p>FILE NO. HTMP-C-3</p> </div> </div>		

[illegible]


	MAIN FAC.		
	MAIN LSD.		
	FAC. TYPE		
	SITE LSD.		
	SCALE		EPCW No.
TITLE <div style="text-align: center; font-size: 1.2em;"> UPPER POND PLAN AND SECTIONS </div>			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL	CLASS	FILE NO. HTMP-C-4

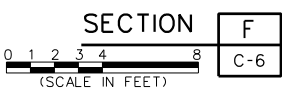



		MAIN FAC.	
		MAIN LSD.	
		FAC. TYPE	
		SITE LSD.	
		SCALE	EPCM No.
EPCM Co.			
TITLE LOWER POND PLAN AND SECTIONS			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS FILE NO. HTMP-C-5



REFERENCE DRAWINGS		DWG. NO.	NO.	DATE	PROJECT DESCRIPTION	PROJ.	AFE	EPCM Co.	EPCM No.	APPD.	ISSUE STAGE	DATE	BY	CHKD.	APPD.	PERMIT STAMP	ENGINEER'S STAMP
											REV. NUMBER						
CAUTION : READ BEFORE EXCAVATION ALL EXCAVATIONS MUST BE CARRIED OUT AS PER "ENCANA'S GROUND DISTURBANCE PRACTICE"																PERMIT STAMP AND PROFESSIONAL STAMP AFFIXED ABOVE SHALL APPLY ONLY TO REV(s)	

		MAIN FAC.	
		MAIN LSO.	
		FAC. TYPE	
		SITE LSO.	
		SCALE	EPCM NO.
EPCM CO.			
TITLE			
OFFLOAD PAD PLAN			
AREA	CLASS		FILE NO.
HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL			HTMP-C-6


Plot Date: 3/23/2013 10:00:57 AM

		MAIN FAC.	
		MAIN L&D.	
		FAC. TYPE	
		SITE L&D.	
		SCALE	EPCM No.
EPCM Co.			
TITLE			
OFFLOAD PAD SECTIONS AND DETAILS			
AREA		CLASS	FILE NO.
HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL			HTMP-C-7



>	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin-bottom: 5px;">6</div> REINFORCED GEOMEMBRANE MATERIAL SEAMS SHALL HAVE THE FOLLOWING PROPERTIES:		
	ADHESION (MIN)	40 LB/2 IN	ASTM D751
	DEAD LOAD SEAM STRENGTH (MIN)	240 LB/IN @ 70°F	ASTM D751
		120 LB/IN @ 160°F	4 HR TEST
	BONDED SEAM STRENGTH (MIN)	550 LB	ASTM D751
			GRAB TST METHOD



		MAIN FAC.	
		MAIN LSO.	
		FAC. TYPE	
		SITE LSO.	
		SCALE	EPCN NO.
EPCN CL.			
TITLE POND LINER & COVER STANDARD DETAILS			
AREA	HUNTER MESA WATER PARK COGCC PERMIT SUBMITTAL		CLASS FILE NO. HTMP-C-8