Appendix A

D WEST — **D'** EAST

H-H'

N. Boulder Highway

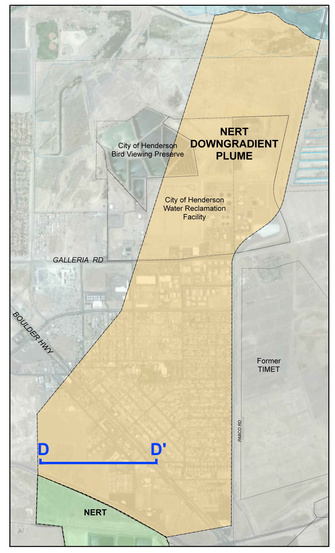
MC-60 1701.50	MC-MW-36 1702.38	MC-62 1699.00'	MC-66 1700.73' (projected 175' N)	MC-63 1697.93'	PC-73 1697.56'	MC-64 1696.00'	PC-72 1696.89'	PC-71 1696.11'	M-44 1695.74'	M-107 1696.09'	M-106 1696.07'	M-152 1695.79'	M-94 1695.27'	M-95 1694.52'	M-96 1694.06' (Dry)
TD = 66'	TD = 50'	TD = 47'	TD = 47'	TD = 48'	TD = 38'	TD = 33'	TD = 78'	TD = 145'	TD = 35'	TD = 22.5'	TD = 27'	TD = 22'			

1710' 1700' 1690' 1680' 1670' 1660' 1650' 1640' 1630' 1620' 1610' 1600' 1590' 1580' 1570' 1560' 1550' 1540'

MC-MW-36 — M-107 — M-106 — M-152

Upper Muddy Creek Formation

CROSS-SECTION LOCATION



LEGEND

FILL	CALICHE	ALLUVIUM								UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 10' 5' 0'
0' 50' 100'
HORIZONTAL SCALE IN FEET
10X VERTICAL EXAGGERATION

boring 1556.3'

1750.0' GROUND SURFACE ELEVATION

SCREENED INTERVAL

BLANK CASING

57' TOTAL DEPTH (FT BGS)

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014

DEEPER WELL

NOTES:

1. Groundwater levels were not measured in shallow wells M-94, M-96, MC-60, MC-62, MC-63, MC-64, and MC-66 and deeper wells M-106 and M-107 in Second Quarter 2014.

2. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

100 0 100 200
SCALE IN FEET

REV.	DATE	DR.	CH.	REVISION

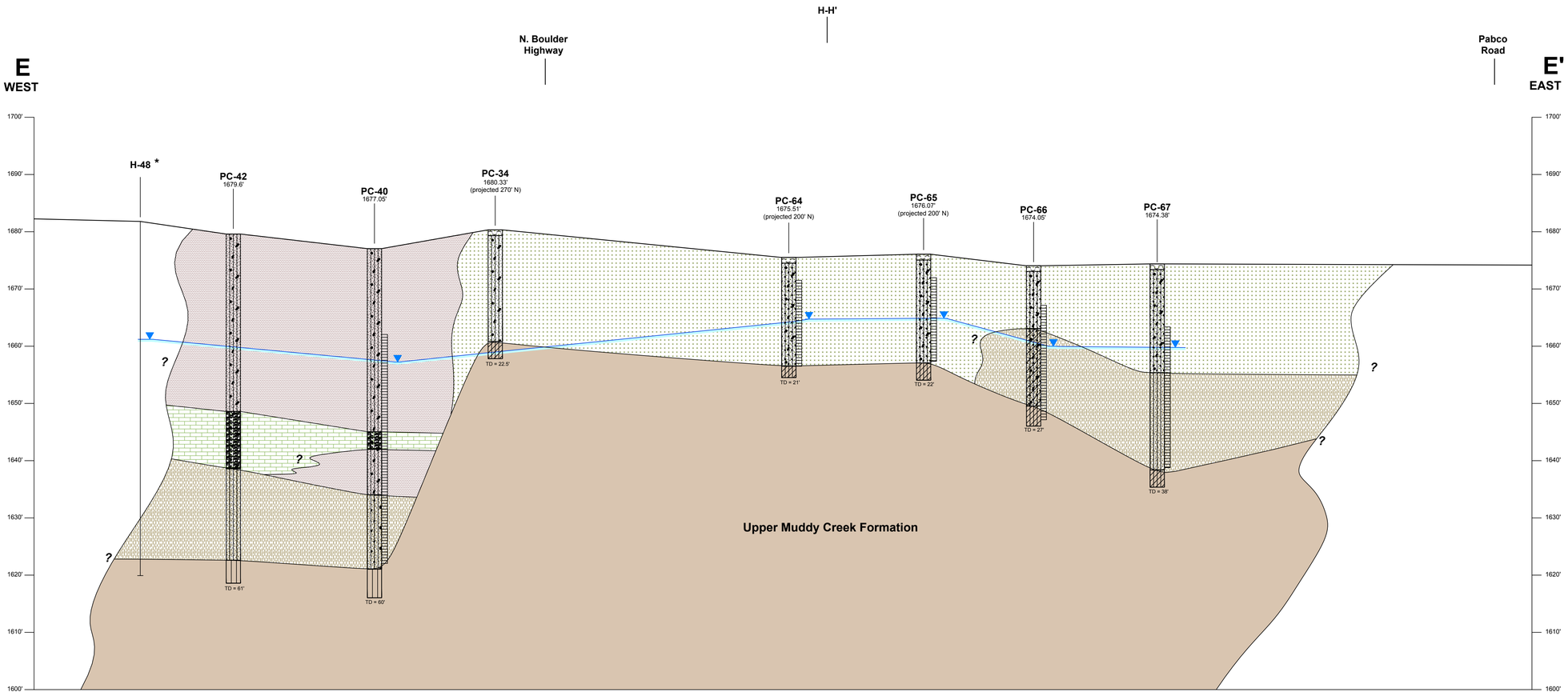
Schematic Subsurface Cross-Section D-D'

Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

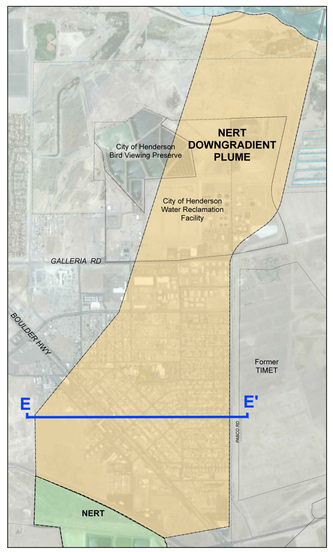
RAMBOLL ENVIRON

PREPARED BY: JD, RR	DATE: 7/30/2015	PLATE A-1
DRAFTED BY: RS	SCALE: 1" = 100'	
APPROVED BY: JD	PROJECT: 21-37300B, K01B	

RMSO 1/20/16
Q:\DRAWINGS\21373OOC_NERT_XSEC < 2137300_XSEC_D-D' >



CROSS-SECTION LOCATION



LEGEND

FILL	CALICHE	ALLUVIUM							UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 10', 5', 0'
0' 100' 200'
HORIZONTAL SCALE IN FEET
20X VERTICAL EXAGGERATION

boring 1556.3'

1750.0' GROUND SURFACE ELEVATION

SCREENED INTERVAL

BLANK CASING

57' TOTAL DEPTH (FT BGS)

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014

200 0 200 400
SCALE IN FEET

NOTES:

1. * The boring log and well completion for Well H-48 were not available.

2. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

REV.	DATE	DR.	CH.	REVISION

Schematic Subsurface Cross-Section E-E'

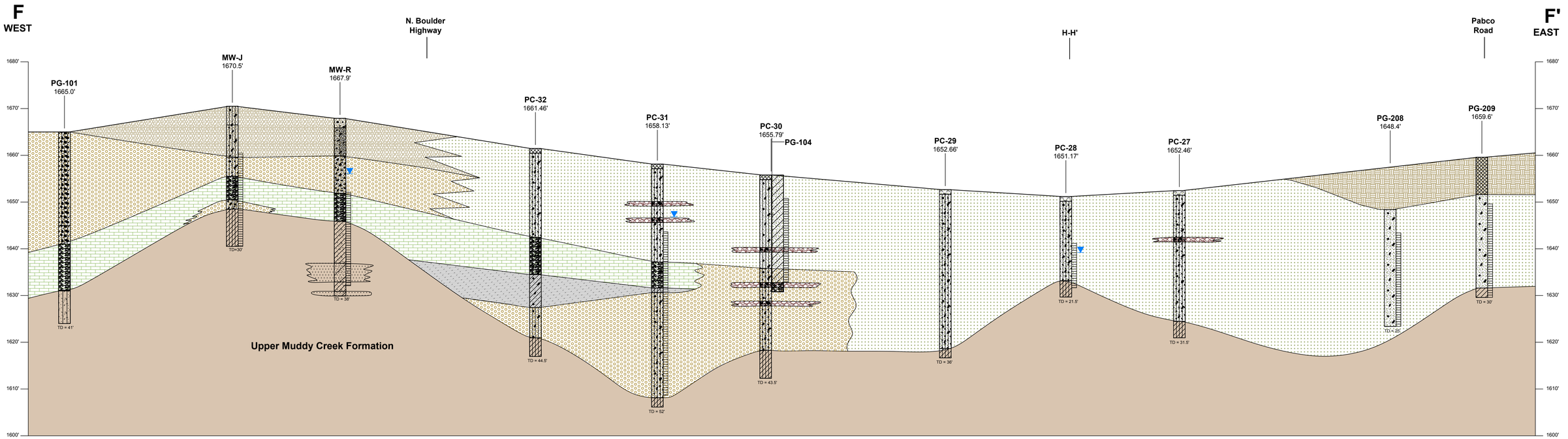
Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

RAMBOLL ENVIRON

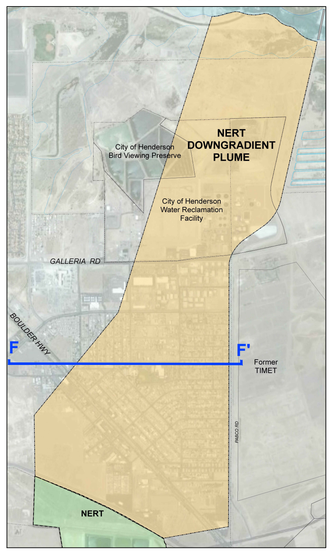
PREPARED BY: JD, RR	DATE: 7/20/2015
DRAFTED BY: RS	SCALE: 1" = 200'
APPROVED BY: JD	PROJECT: 21-37300B, K01B

PLATE **A-2**

RMSO 1/20/16
Q:\DRAWINGS\137300C_NERT_XSEC < 137300_XSEC_E-E' >



CROSS-SECTION LOCATION



LEGEND

FILL	CALICHE	ALLUVIUM								UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 10', 5', 0'
0' 100' 200'
HORIZONTAL SCALE IN FEET
20X VERTICAL EXAGGERATION

boring 1556.3'

1750.0' GROUND SURFACE ELEVATION

SCREENED INTERVAL

BLANK CASING

57' TOTAL DEPTH (FT BGS)

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014

NOTE:

1. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

200 0 200 400
SCALE IN FEET

REV.	DATE	DR.	CH.	REVISION

Schematic Subsurface Cross-Section F-F'

Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

RAMBOLL ENVIRON

PREPARED BY: JD, RR	DATE: 7/20/2015	PLATE A-3
DRAFTED BY: RS	SCALE: 1" = 200'	
APPROVED BY: JD	PROJECT: 21-37300B, K01B	

RMSO 1/20/16
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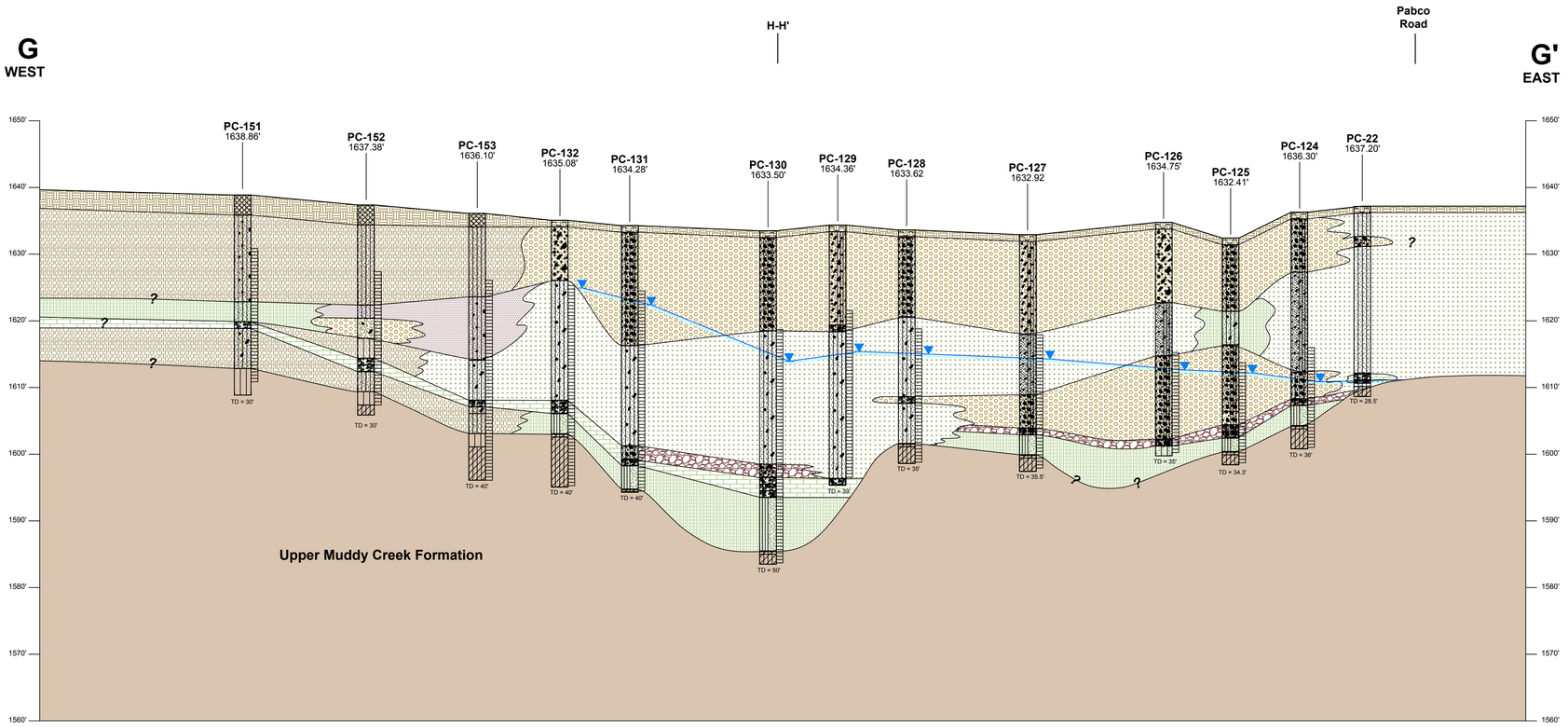
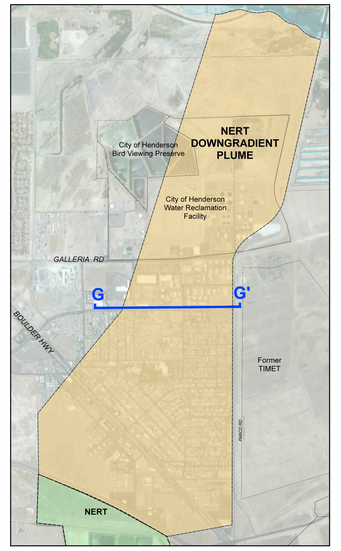


CROSS-SECTION LOCATION



LEGEND

FILL	CALICHE	ALLUVIUM							UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND / SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 10', 5', 0'
0' 100' 200'
HORIZONTAL SCALE IN FEET
20X VERTICAL EXAGGERATION

boring 1556.3'

1750.0' TOP OF CASING ELEVATION

SCREENED INTERVAL

BLANK CASING

57'

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014

NOTES:

1. Lithology is based primarily on wells installed along Sunset Road in 2007. Earlier borings (PC-22 thru PC-25 and PC-49 thru PC-51) drilled in 1998 were logged from cuttings.

2. Wells PC-151, PC-152 and PC-153 were installed in December 2014.

3. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

200 0 200 400
SCALE IN FEET

REV.	DATE	DR.	CH.	REVISION

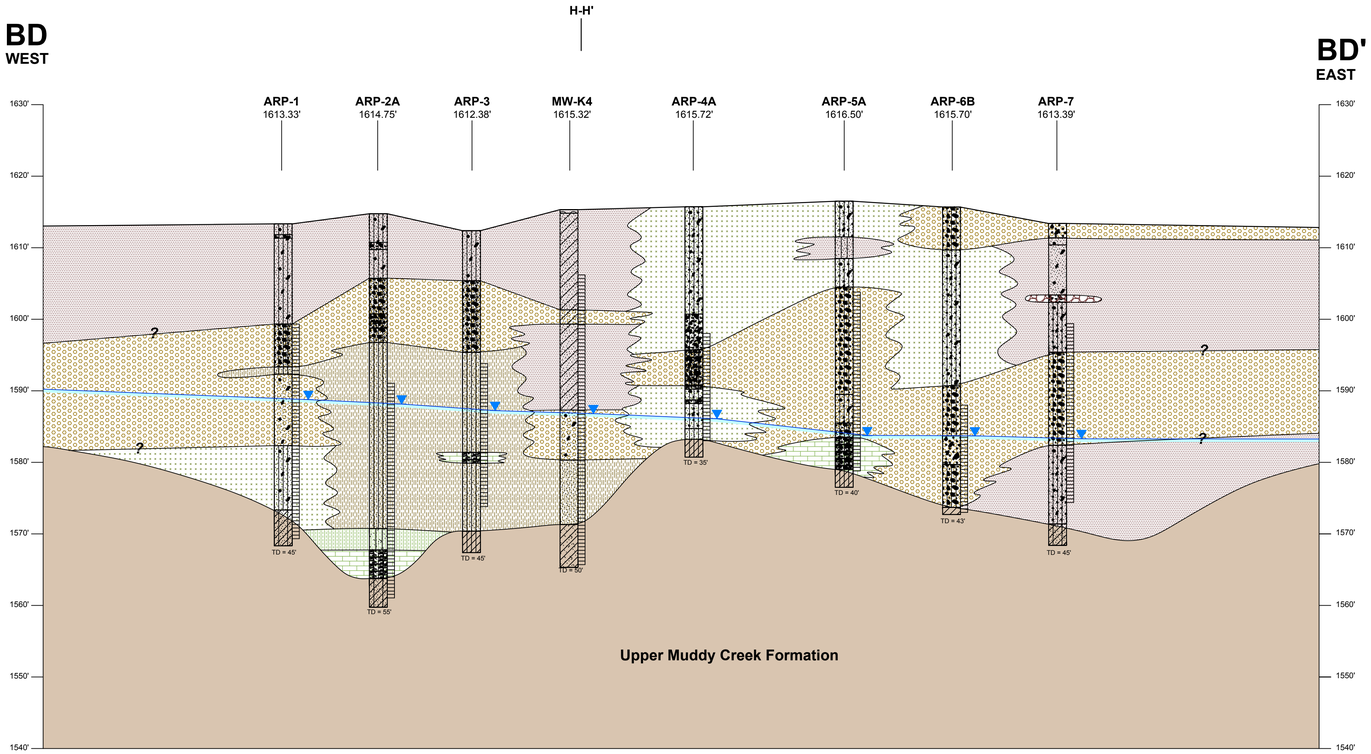
Schematic Subsurface Cross-Section G-G'

Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

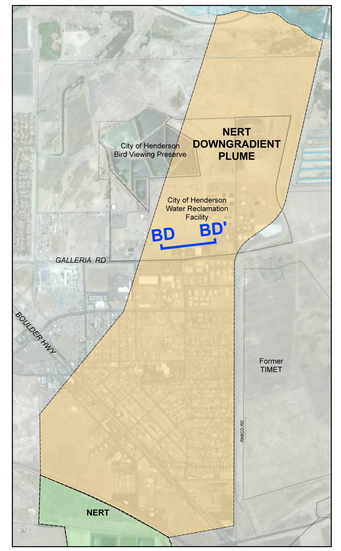
RAMBOLL ENVIRON

PREPARED BY: JD, RR	DATE: 7/20/2015	PLATE
DRAFTED BY: RS	SCALE: 1" = 200'	A-4
APPROVED BY: JD	PROJECT: 21-37300B, K01B	

RMSO 1/20/16
Q:\DRAWINGS\21\37300C_NERT_XSEC < 21\37300_XSEC_G-G' >



CROSS-SECTION LOCATION



LEGEND

FILL	CALICHE	ALLUVIUM								UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 10', 5', 0'
0' 50' 100'
HORIZONTAL SCALE IN FEET
10X VERTICAL EXAGGERATION

boring 1556.3'

1750.0' GROUND SURFACE ELEVATION

SCREENED INTERVAL
(D) DEEP
(M) MIDDLE
(S) SHALLOW

BLANK CASING

57 TOTAL DEPTH (FT BGS)

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014

NOTES:

1. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

100 0 100 200
SCALE IN FEET

REV.	DATE	DR.	CH.	REVISION

Schematic Subsurface Cross-Section BD-BD'

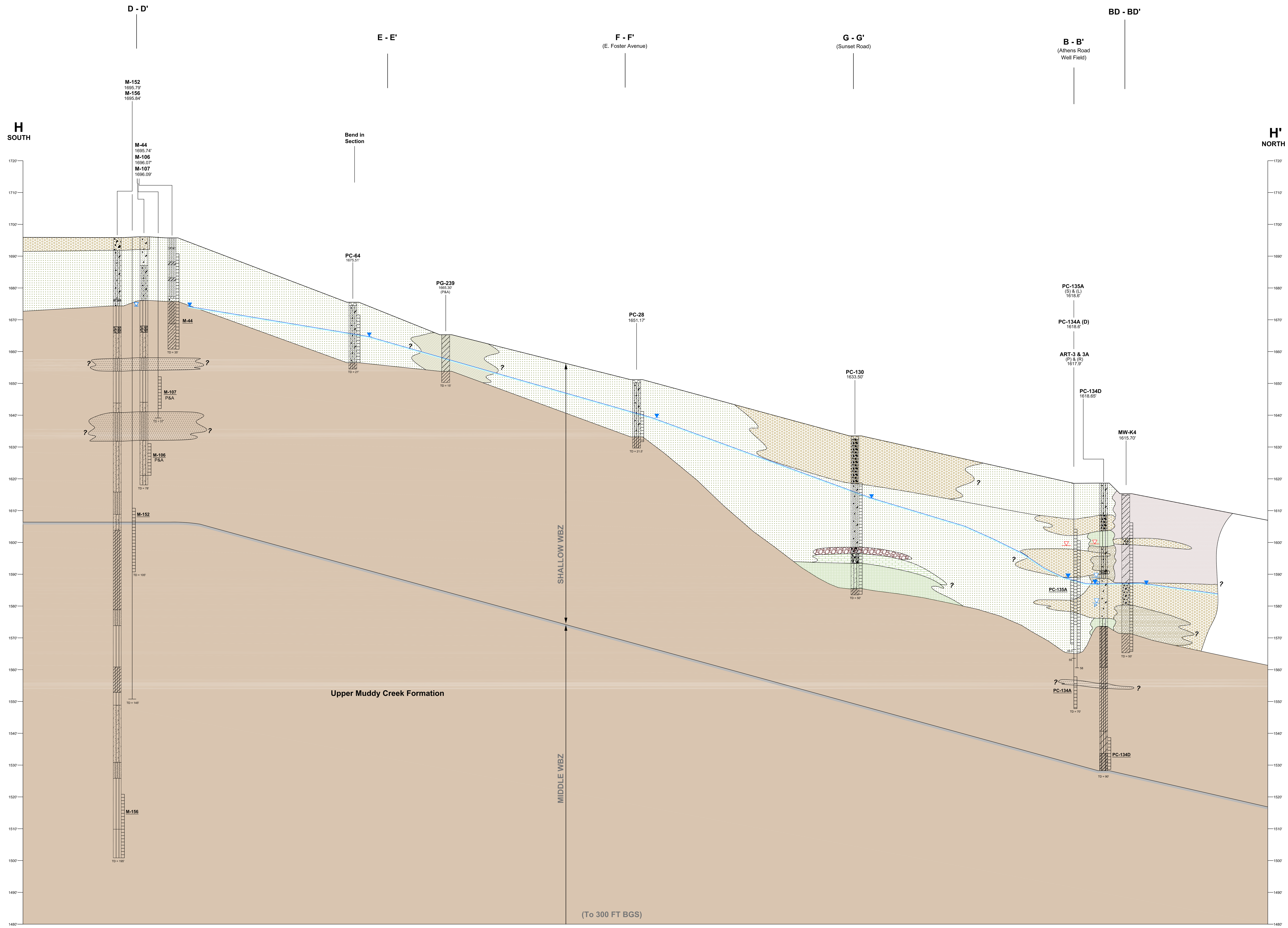
Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

RAMBOLL ENVIRON

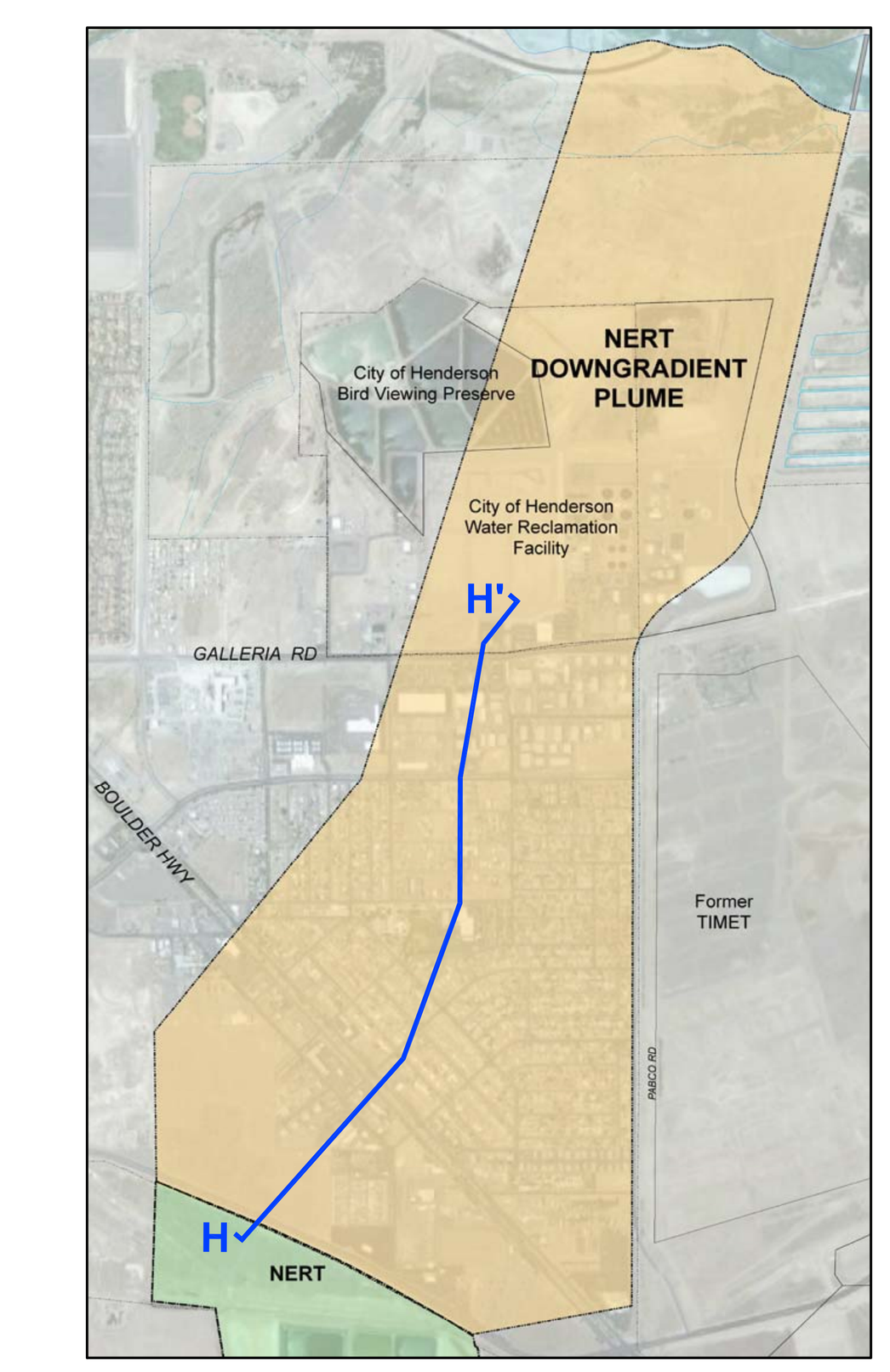
PREPARED BY: JD, RR	DATE: 7/20/2015
DRAFTED BY: RS	SCALE: 1" = 100'
APPROVED BY: JD	PROJECT: 21-37300B, K01B

PLATE **A-5**

RMSD 1/20/16
Q:\DRAWINGS\21373000C_NERT_XSEC < 21373000_XSEC_BD-BD' >



CROSS-SECTION LOCATION



200 0 200 400
SCALE IN FEET

LEGEND

FILL	CALICHE	ALLUVIUM								UPPER MUDDY CREEK FORMATION	
FILL	CALICHE	COBBLES/ GRAVEL	GRAVEL/ SANDY GRAVEL	SILTY SAND / GRAVEL	SAND/ SAND WITH GRAVEL	SILTY SAND	CLAYEY SAND	SANDY CLAY/ SILTY CLAY	SANDY SILT	SILTY CLAY/ CLAYEY SILT	SILTY SAND/ SANDY BED

VERTICAL SCALE IN FEET: 0', 5', 10'
HORIZONTAL SCALE IN FEET: 0', 100', 200'
20X VERTICAL EXAGGERATION

boring 1556.3'
1750.0' GROUND SURFACE ELEVATION
SCREENED INTERVAL
BLANK CASING
57 TOTAL DEPTH (FT BGS)
(P&A) Plugged and Abandoned

GROUNDWATER LEVELS MEASURED APRIL - JUNE 2014
DEEPER WELL

ATHENS ROAD WELL FIELD (AWF)
STATIC WATER LEVEL PRIOR TO INITIAL PUMPING
PUMPING WELL (not used for interpolating water level)

AWF Screened Intervals:
(S) Shallow
(D) Deep
(R) Well on Right
(L) Well on Left

NOTES:

1. The shallow and deep screened interval designations are used to distinguish well screens and do not refer to NDEP's definition of water-bearing zones (WBZs)

2. Stratigraphic interpretation is based primarily on available boring logs from previous investigations conducted by others. Lithologic contacts are shown unbroken for clarity, but this does not imply certainty. Interpreted contact shown may be affected by projected borings. Actual subsurface conditions along the cross-section alignment may vary.

REV.	DATE	DR.	CH.	REVISION

Schematic Subsurface Cross-Section H - H'

Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

RAMBOLL ENVIRON

PREPARED BY: JD, RR	DATE: 7-21-15	PLATE
DRAFTED BY: RS	SCALE: 1" = 200'	A-6
APPROVED BY: JD	PROJECT: 21-37300B, K01B	

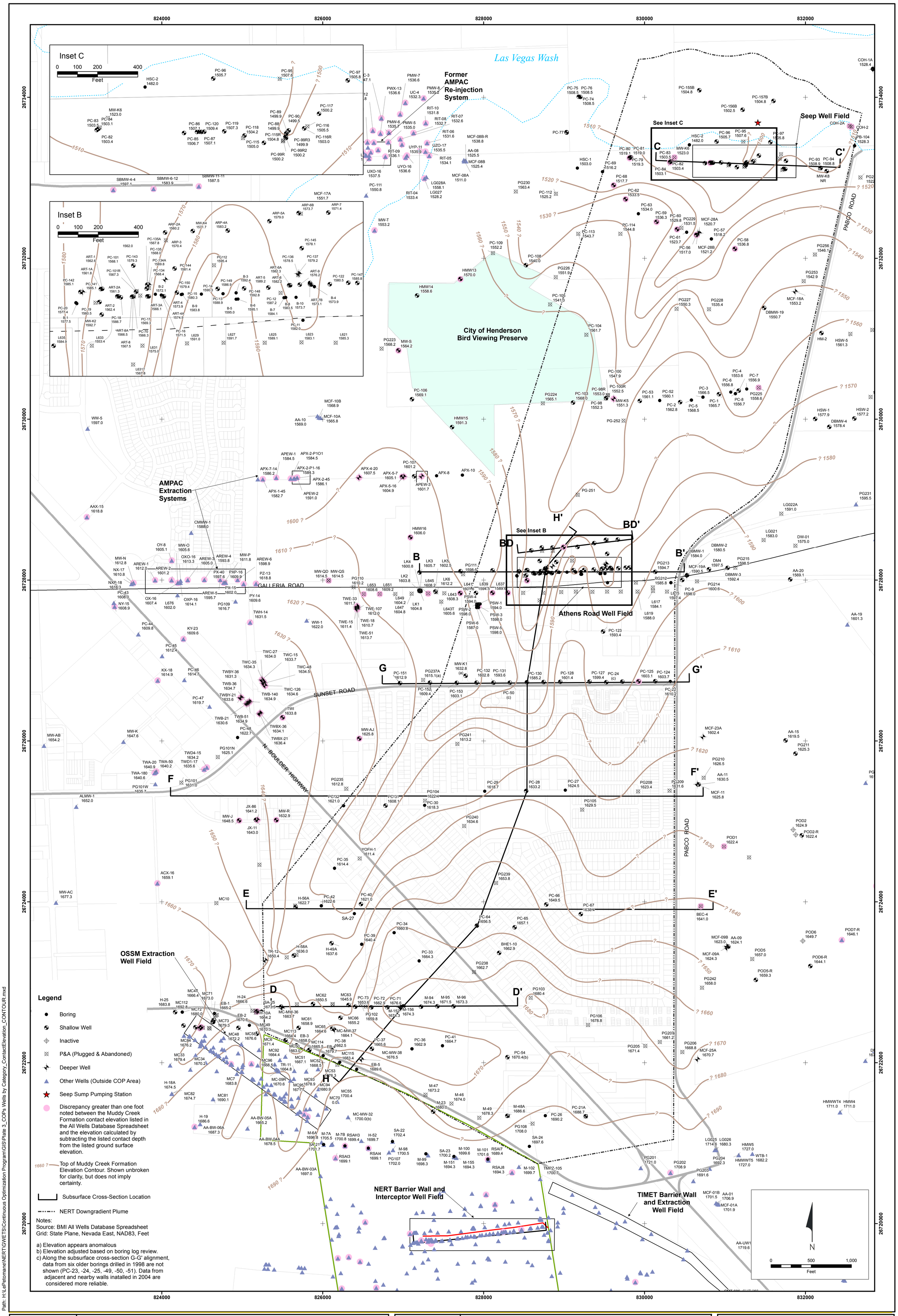


Plate
A-7
PROJECT: 21-34800H

STRUCTURE CONTOUR MAP
TOP OF MUDDY CREEK FORMATION

Continuous Optimization Program (COP)
Nevada Environmental Response Trust (NERT)
Henderson, Nevada

DESIGNED BY:	REVISIONS			
	NO.	DESCRIPTION:	DATE:	BY:
DRAWN BY: RS	0	GENERATE APPROVED MAP	6/12/2015	RS
CHECKED BY: JD	1	Revision 1	7/15/2015	RS
APPROVED BY: JD				

RAMBOLL ENVIRON