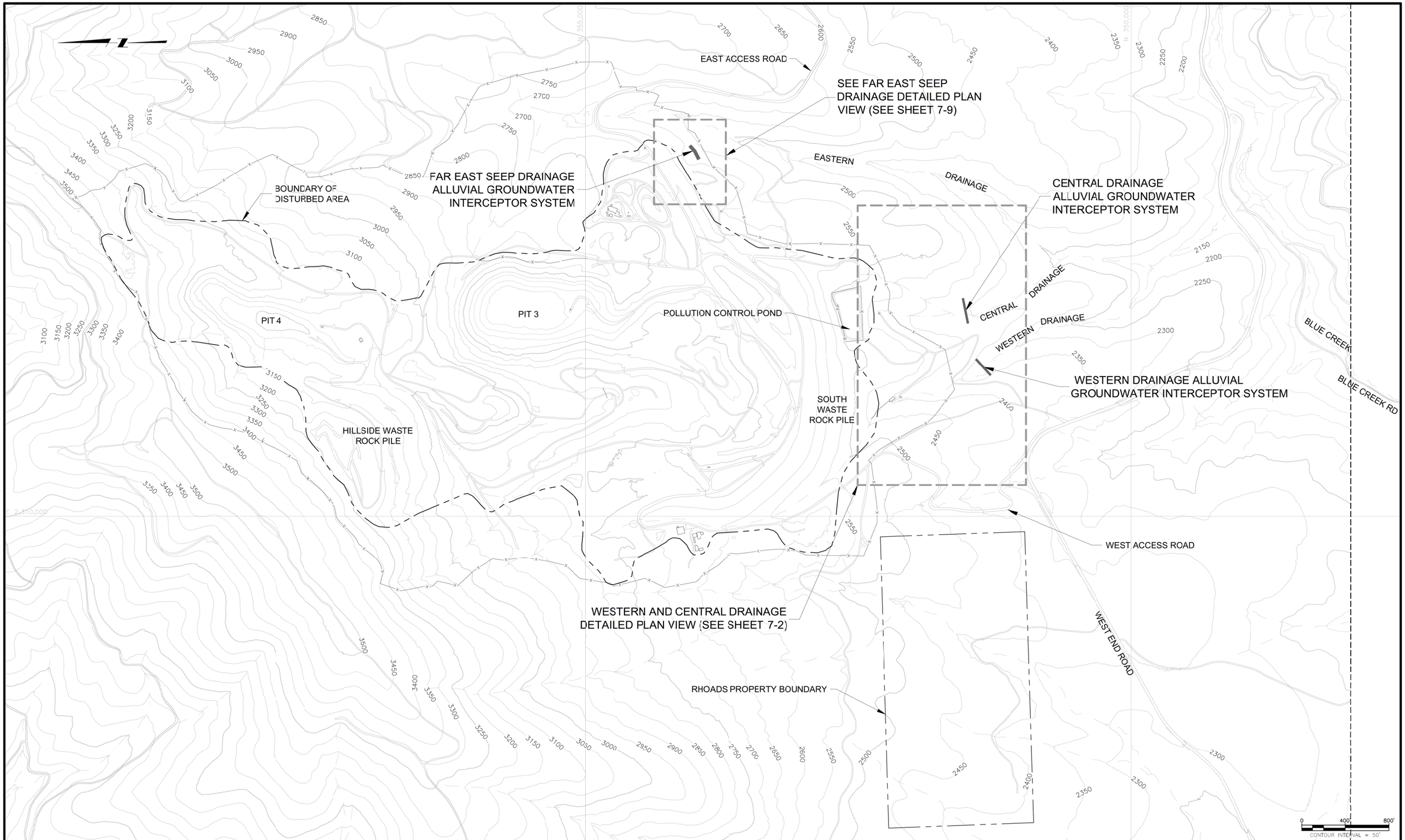

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

DISCLAIMER:
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DRAWING REFERENCE(S):
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010. WASHINGTON STATE PLANE–NORTH, NAD83/NAVD88.

DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

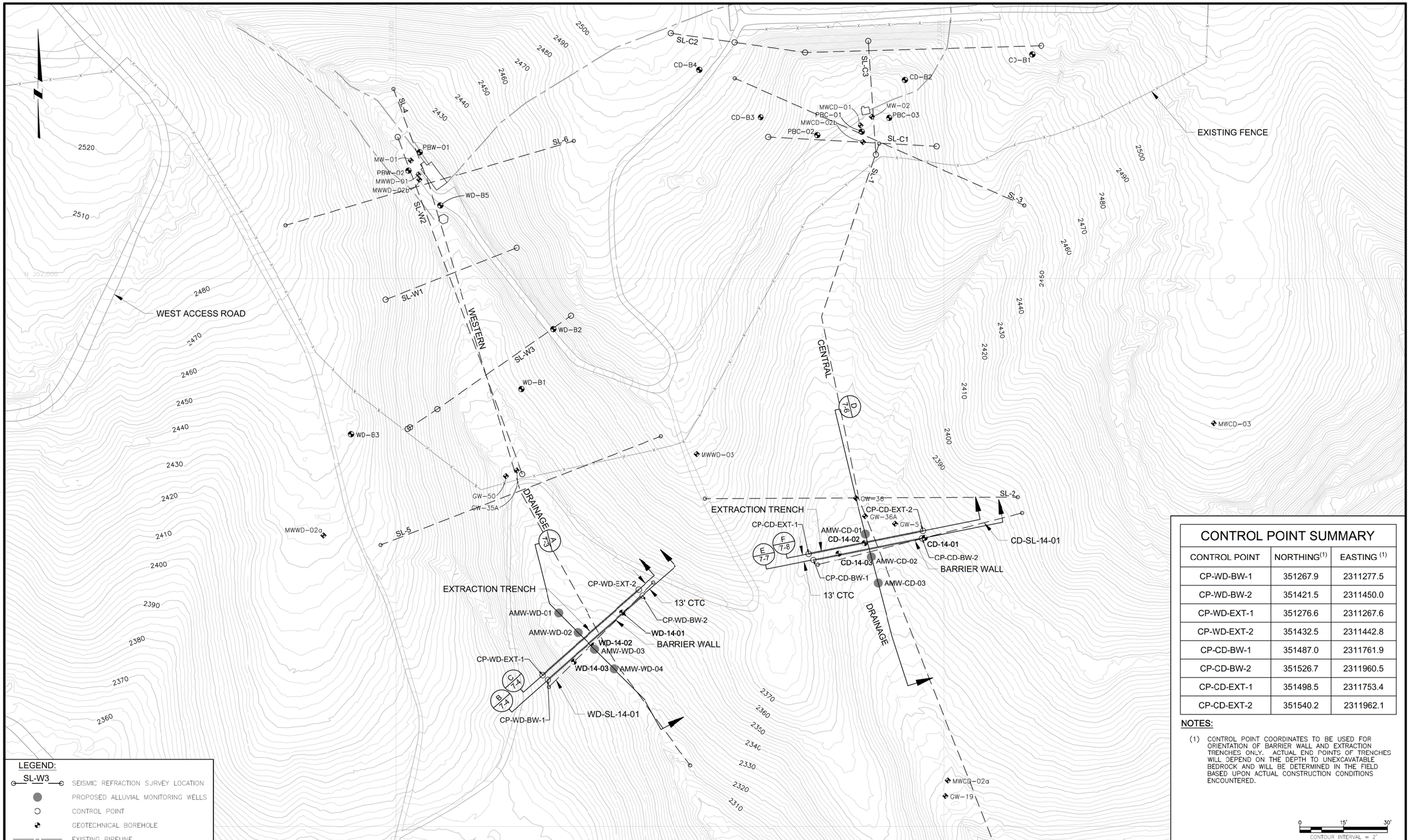
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: LOCATION OF ALLUVIAL GROUNDWATER CONTROLS

MWH

SHEET: 7-1
REVISION: 3
FILE NAME: 7-1
DATE: JUNE 2015

PW: \\AMERVPWINT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-1.dwg



CONTROL POINT SUMMARY

CONTROL POINT	NORTHING (1)	EASTING (1)
CP-WD-BW-1	351267.9	2311277.5
CP-WD-BW-2	351421.5	2311450.0
CP-WD-EXT-1	351276.6	2311267.6
CP-WD-EXT-2	351432.5	2311442.8
CP-CD-BW-1	351487.0	2311761.9
CP-CD-BW-2	351526.7	2311960.5
CP-CD-EXT-1	351498.5	2311753.4
CP-CD-EXT-2	351540.2	2311962.1

NOTES:

(1) CONTROL POINT COORDINATES TO BE USED FOR ORIENTATION OF BARRIER WALL AND EXTRACTION TRENCHES ONLY. ACTUAL END POINTS OF TRENCHES WILL DEPEND ON THE DEPTH TO UNEXCAVATABLE BEDROCK AND WILL BE DETERMINED IN THE FIELD BASED UPON ACTUAL CONSTRUCTION CONDITIONS ENCOUNTERED.

LEGEND:

- SL-W3 — SEISMIC REFRACTION SURVEY LOCATION
- PROPOSED ALLUVIAL MONITORING WELLS
- CONTROL POINT
- GEOTECHNICAL BOREHOLE
- EXISTING PIPELINE

0 15' 30'
CONTOUR INTERVAL = 2'

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

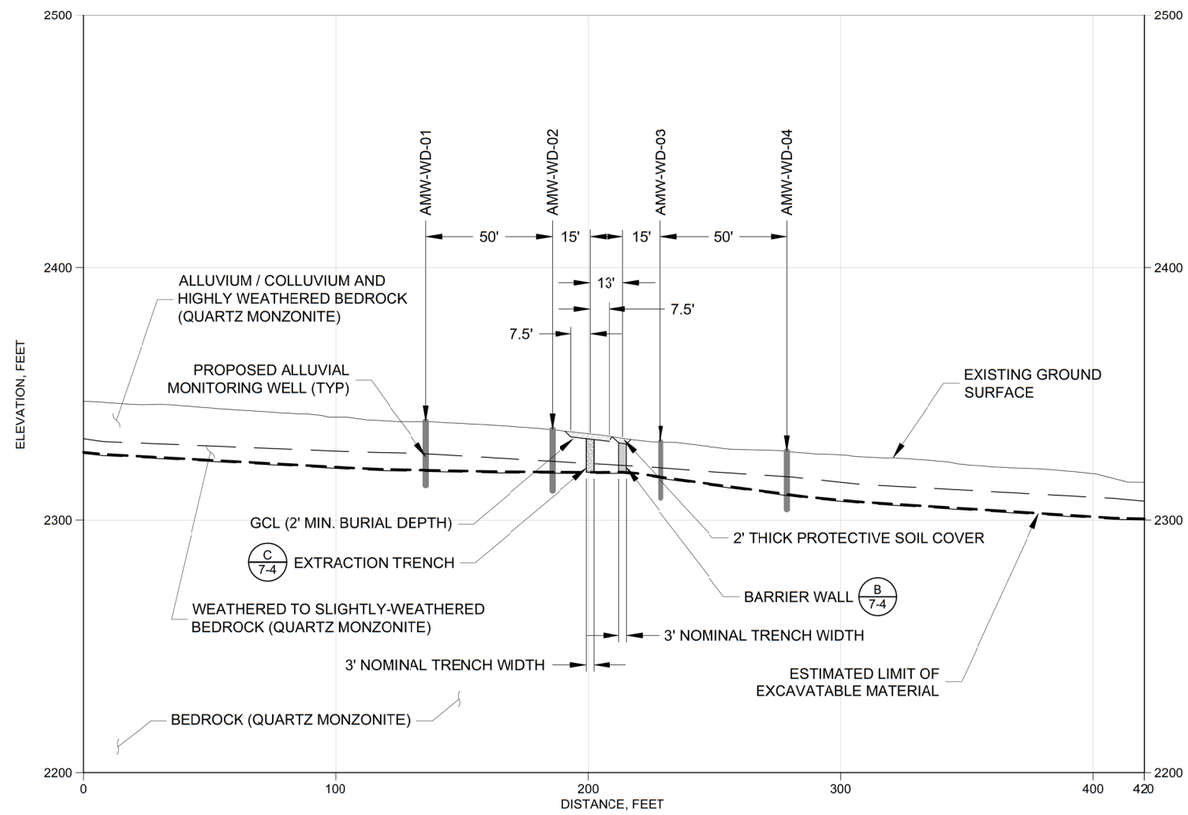
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: WESTERN AND CENTRAL DRAINAGE DETAILED PLAN VIEW

MWH

SHEET 7-2 | REVISION 3
FILE NAME 7-2 | DATE JUNE 2015

PW: \\AMERVPWINT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\07_GW CONTROLS\7-2.dwg



A 7-2 PROFILE ALONG WESTERN DRAINAGE

0 30' 60'

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06-15
2	ISSUED FOR 90% DESIGN	TB	TK	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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DESIGNED BY	T KELLEY	06-15
DRAWN BY	T BOEHLER	06-15
CHECKED BY	S MCMANUS	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON

PROJECT: MIDNITE MINE

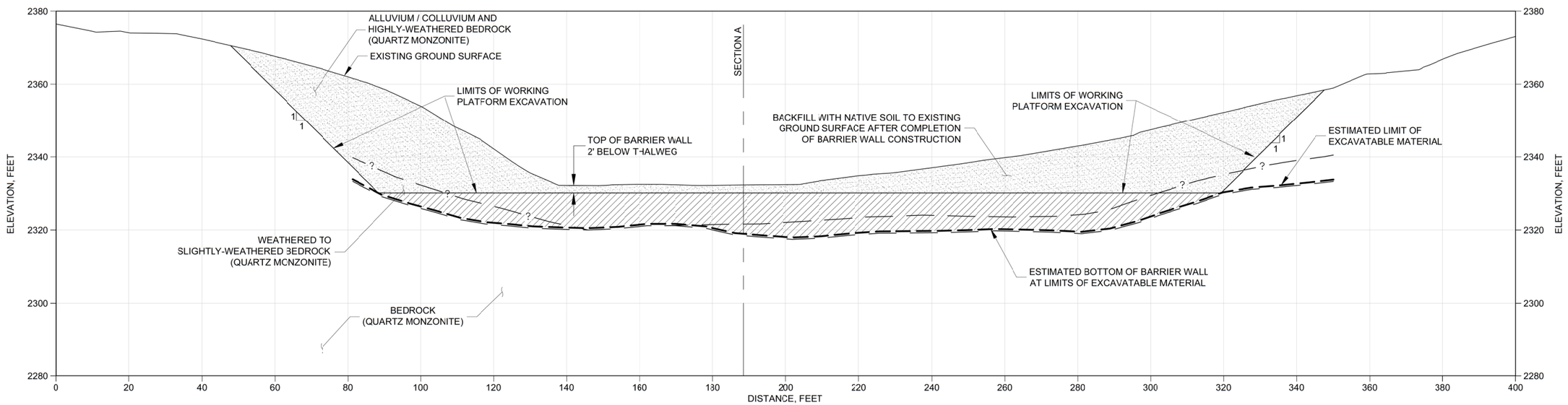
TITLE: WESTERN DRAINAGE SECTION A

MWH

SHEET: 7-3 | REVISION: 3

FILE NAME: 7-3 | DATE: JUNE 2015

PW: \\AMERVPWINT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BODR\07_GW CONTROLS\7-3.dwg



B
7-2

WESTERN DRAINAGE - BARRIER WALL SECTION

0 5' 30'

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON

PROJECT: MIDNITE MINE

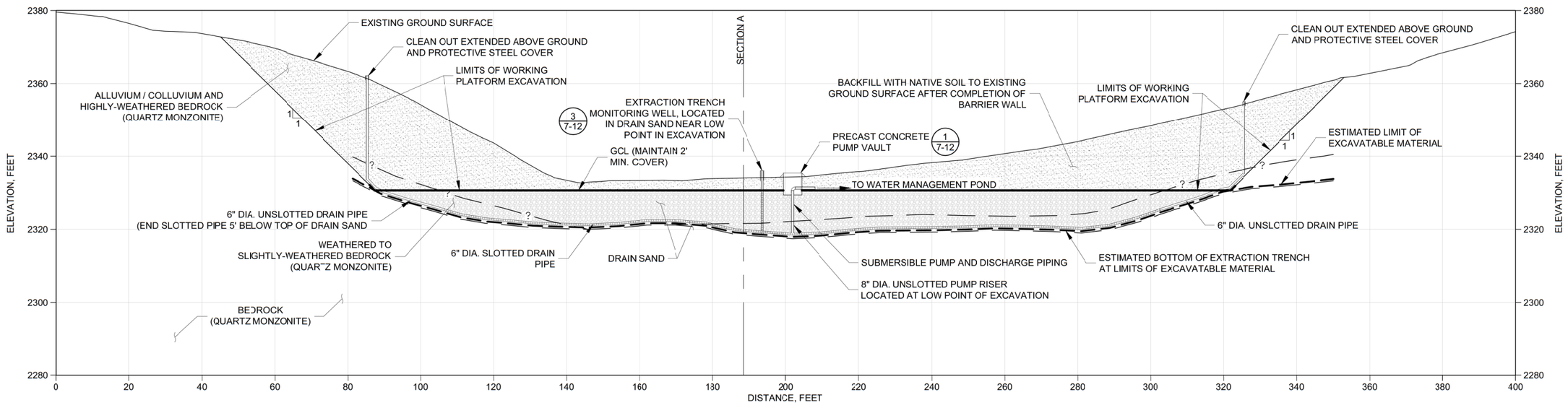
TITLE: WESTERN DRAINAGE SECTION B

MWH

SHEET: 7-4 | REVISION: 3

FILE NAME: 7-2 | DATE: JUNE 2015

PW:\\AMERVPWINT03.WWRGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOR\07_GW CONTROLS\7-2.dwg



C 7-2 WESTERN DRAINAGE - EXTRACTION TRENCH SECTION

0 15' 30'

NOTE:

1. SEAL ALL PIPE PENETRATIONS IN GCL PER THE GCL PIPE PENETRATION DETAIL 4 7-12

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14

DISCLAIMER:
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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON

PROJECT: MIDNITE MINE

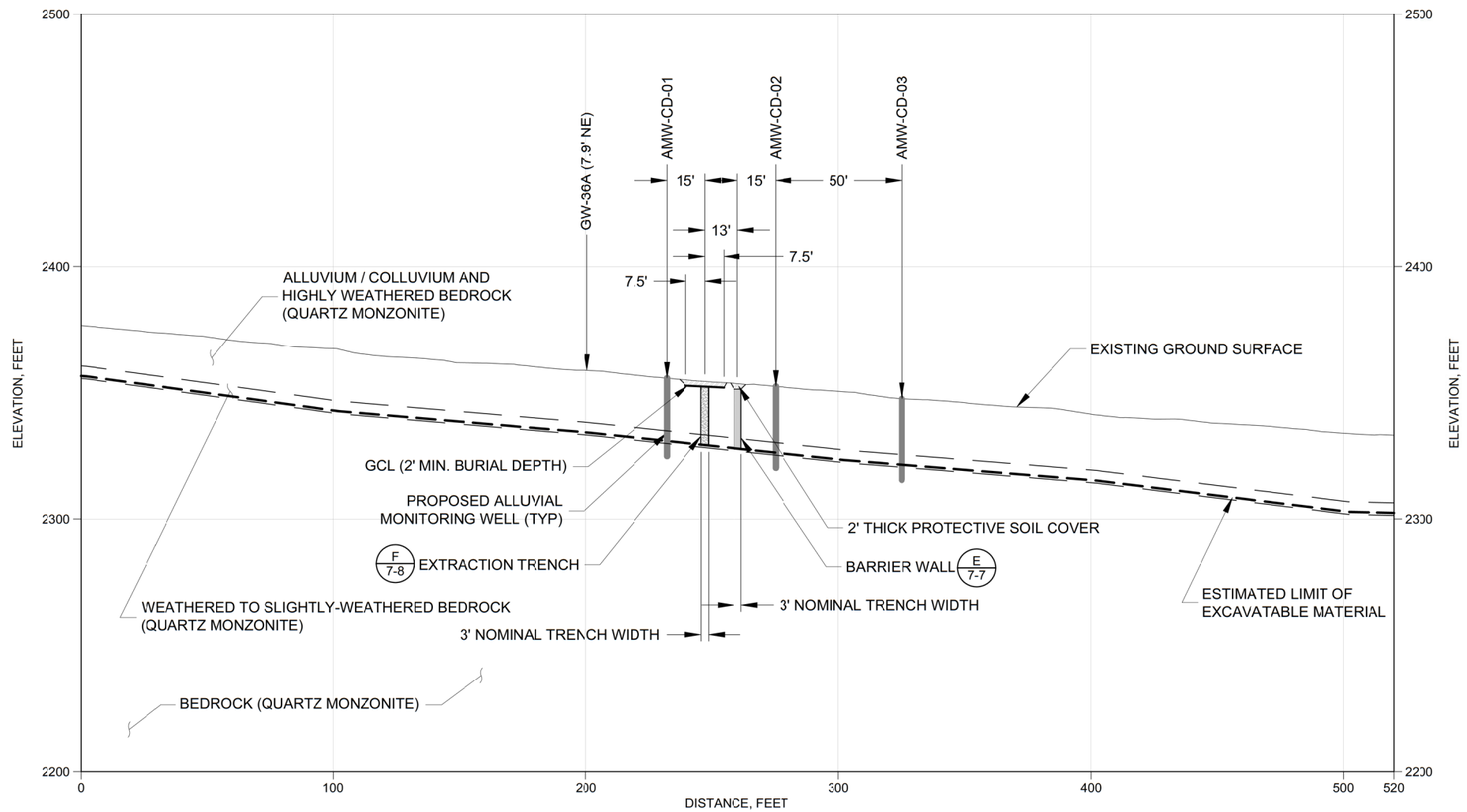
TITLE: WESTERN DRAINAGE SECTION C

MWH

SHEET: 7-5 | REVISION: 3

FILE NAME: 7-2 | DATE: JUNE 2015

PW: \\AMERVPWNTO3.WWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-2.dwg



D
7-2
PROFILE ALONG CENTRAL DRAINAGE

0 30' 60'

ISSUE / REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

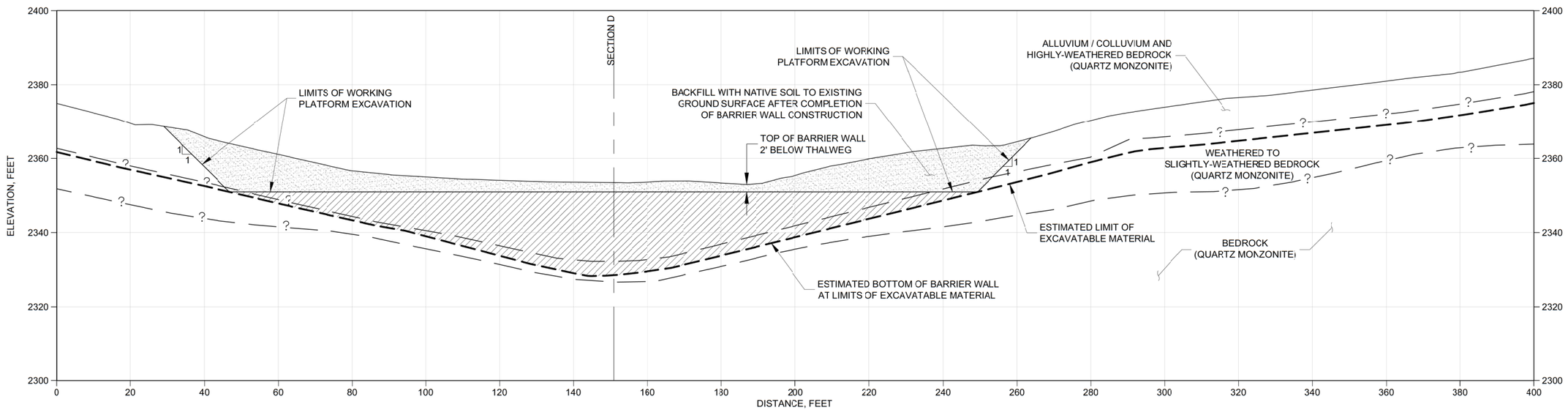
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: CENTRAL DRAINAGE SECTION D

MWH

SHEET: 7-6
REVISION: 3
FILE NAME: 7-3
DATE: JUNE 2015

PW:\\AMERVPWNT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\R0-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-3.dwg



E / 7-2 CENTRAL DRAINAGE - BARRIER WALL SECTION

0 5' 30'

REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

ISSUE / REV

DISCLAIMER:
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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON

PROJECT: MIDNITE MINE

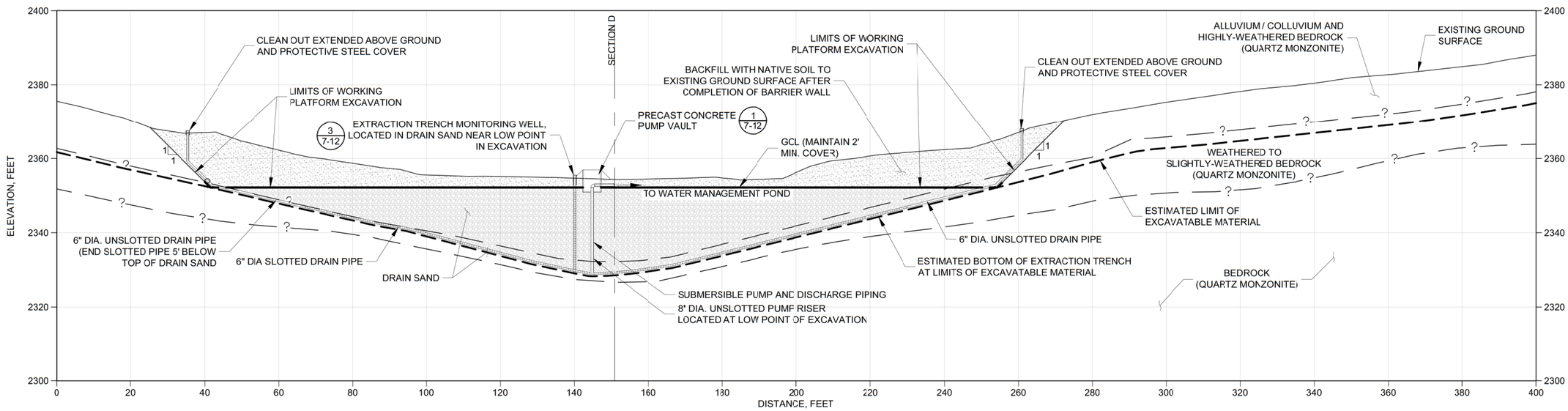
TITLE: CENTRAL DRAINAGE BARRIER WALL

MWH

SHEET: 7-7 | REVISION: 3

FILE NAME: 7-2 | DATE: JUNE 2015

P:\:\AMERVPWNT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\R0-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-2.dwg



F / 7-2 CENTRAL DRAINAGE - EXTRACTION TRENCH SECTION

0 5' 30'

NOTE:

1. SEAL ALL PIPE PENETRATIONS IN GCL PER THE GCL PIPE PENETRATION DETAIL 4 / 7-12

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13
0	ISSUED FOR 30% DESIGN	DM	SM	12–12

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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON

PROJECT: MIDNITE MINE

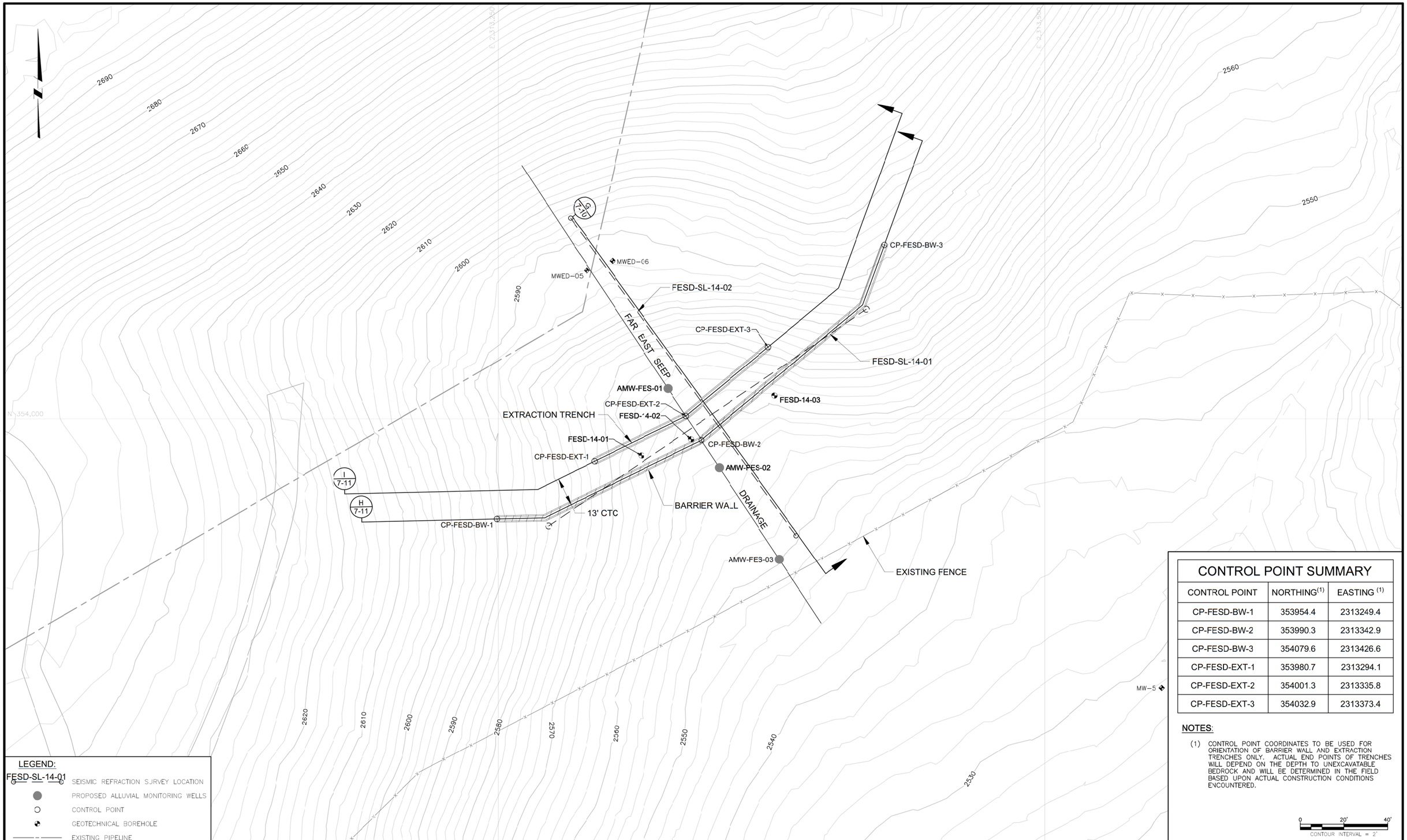
TITLE: CENTRAL DRAINAGE EXTRACTION TRENCH

MWH

SHEET: 7-8 | REVISION: 3

FILE NAME: 7-2 | DATE: JUNE 2015

PW:\\AMERVPWNT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-2.dwg



CONTROL POINT SUMMARY

CONTROL POINT	NORTHING (1)	EASTING (1)
CP-FESD-BW-1	353954.4	2313249.4
CP-FESD-BW-2	353990.3	2313342.9
CP-FESD-BW-3	354079.6	2313426.6
CP-FESD-EXT-1	353980.7	2313294.1
CP-FESD-EXT-2	354001.3	2313335.8
CP-FESD-EXT-3	354032.9	2313373.4

NOTES:

(1) CONTROL POINT COORDINATES TO BE USED FOR ORIENTATION OF BARRIER WALL AND EXTRACTION TRENCHES ONLY. ACTUAL END POINTS OF TRENCHES WILL DEPEND ON THE DEPTH TO UNEXCAVATABLE BEDROCK AND WILL BE DETERMINED IN THE FIELD BASED UPON ACTUAL CONSTRUCTION CONDITIONS ENCOUNTERED.

0 20' 40'
CONTOUR INTERVAL = 2'

LEGEND:

FESD-SL-14-01 — SEISMIC REFRACTION SURVEY LOCATION
PROPOSED ALLUVIAL MONITORING WELLS
CONTROL POINT
GEOTECHNICAL BOREHOLE
EXISTING PIPELINE

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13

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DRAWING REFERENCE(S):
• EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010. WASHINGTON STATE PLANE–NORTH, NAD83/NAVD88.

DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

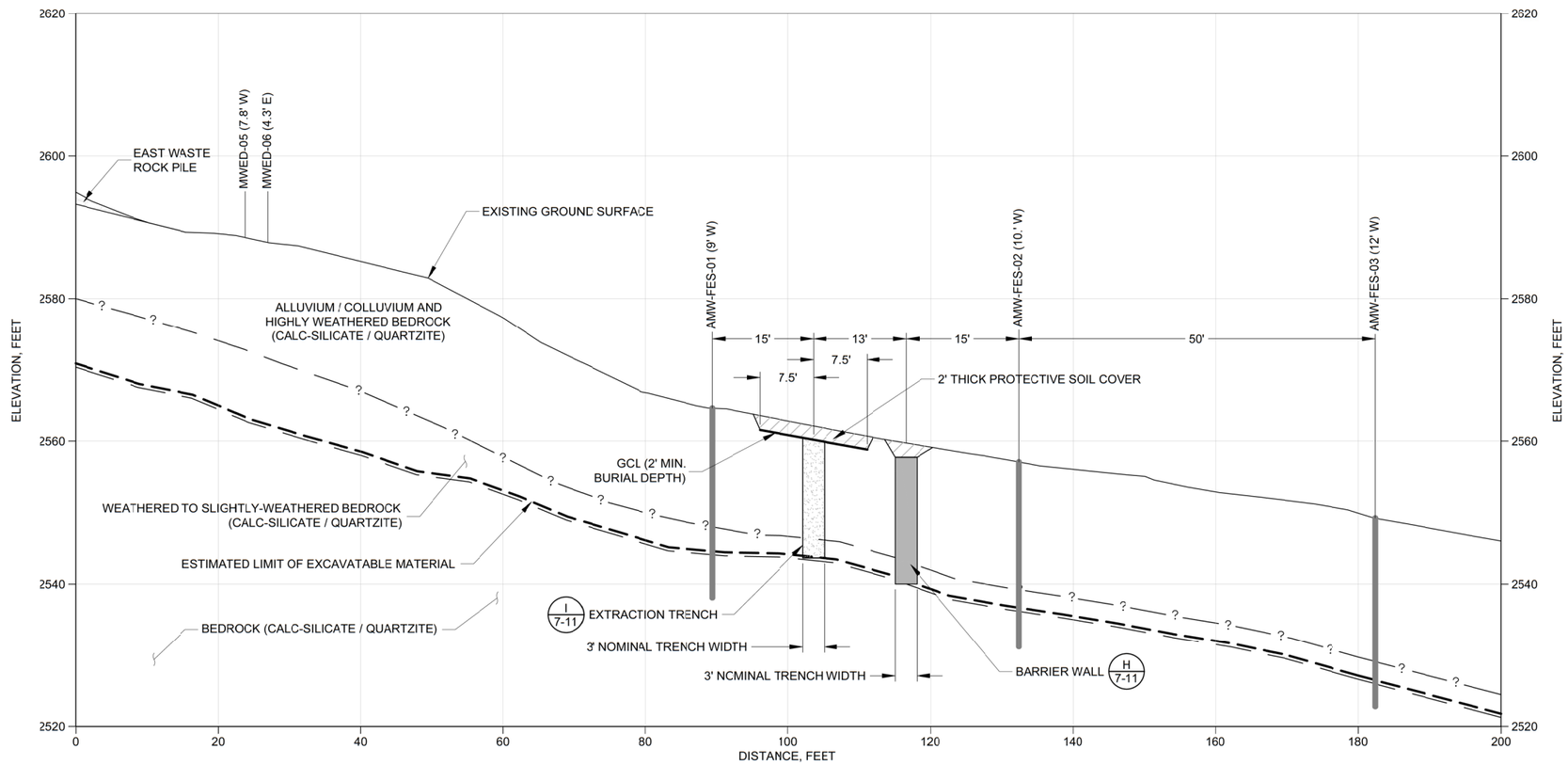
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: FAR EAST SEEP DRAINAGE DETAILED PLAN VIEW

MWH

SHEET: 7-9
REVISION: 3
FILE NAME: 7-2
DATE: JUNE 2015

PW:\\AMERVPWNT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-2.dwg



G 7-9 PROFILE ALONG FAR EAST SEEP DRAINAGE

0 10' 20'

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	DM	SM	12–13

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DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

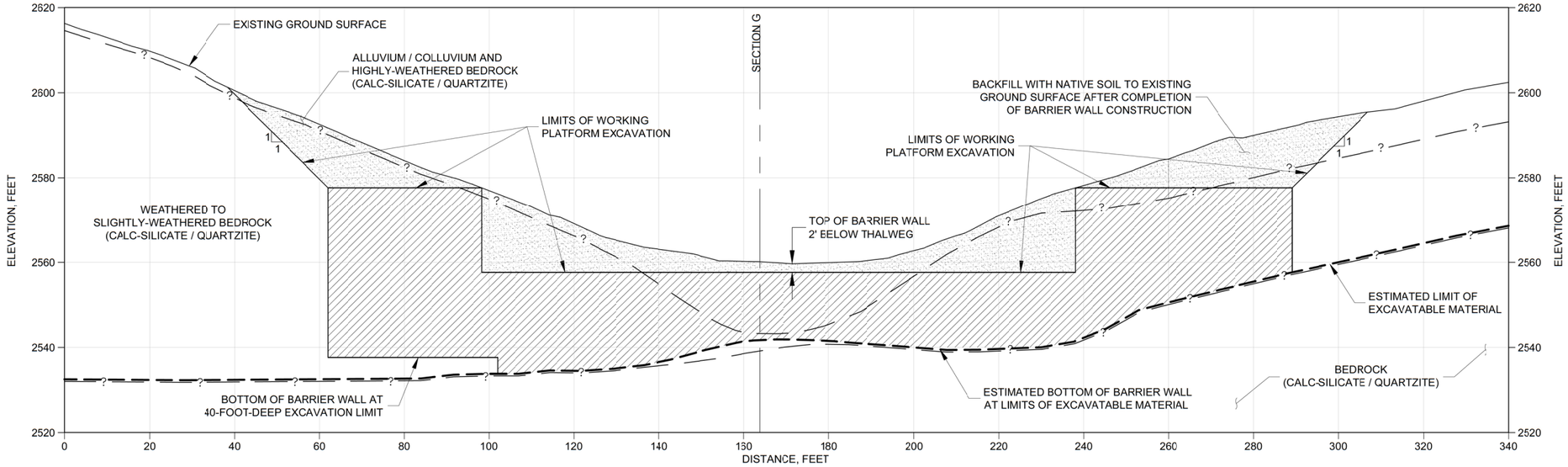
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: FAR EAST SEEP DRAINAGE SECTION G

MWH

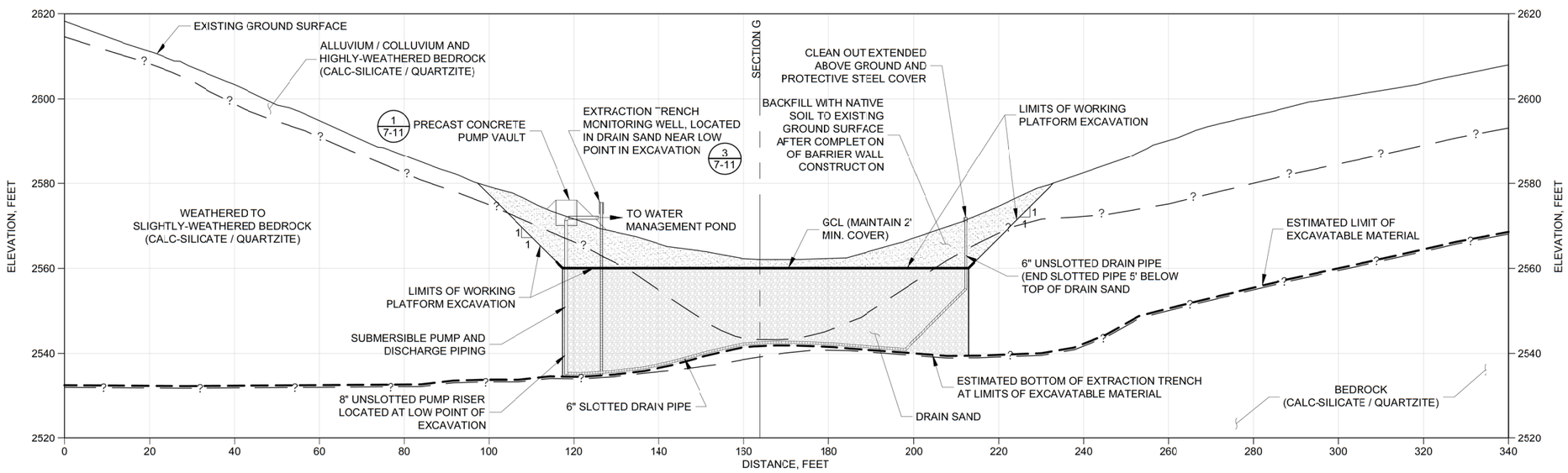
SHEET: 7-10
REVISION: 3
FILE NAME: 7-2
DATE: JUNE 2015

PW: \\AMERVPWINT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BDDR\07_GW CONTROLS\7-2.dwg



H 7-9 FAR EAST DRAINAGE - BARRIER WALL SECTION

0 5' 30'



I 7-9 FAR EAST DRAINAGE - EXTRACTION TRENCH SECTION

0 5' 30'

NOTE: SEAL ALL PIPE PENETRATIONS IN GCL PER THE GCL PIPE PENETRATION DETAIL 4 7-11

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14
1	ISSUED FOR 60% DESIGN	KT	SM	12–13

DISCLAIMER:
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DESIGNED BY	T KELLEY	06–15
DRAWN BY	T BOEHLER	06–15
CHECKED BY	S MCMANUS	06–15
APPROVED BY	C STRACHAN	06–15
PROJECT MANAGER	V DRAIN	06–15

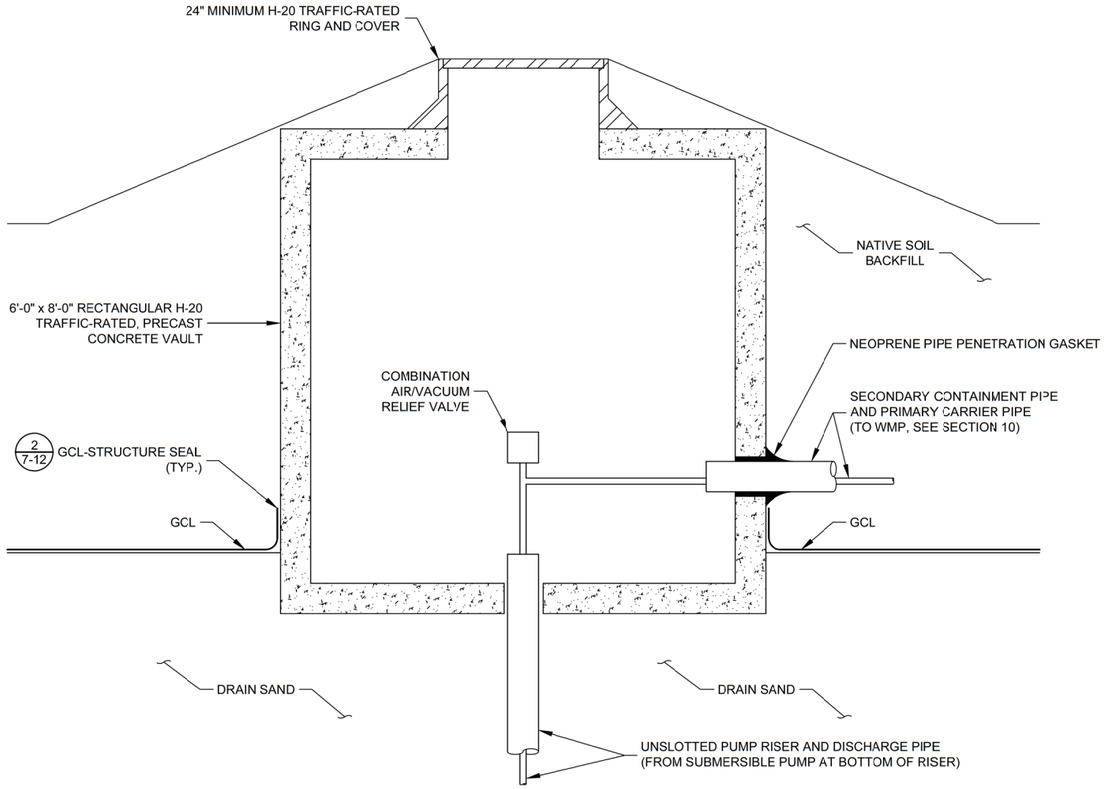
NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: FAR EAST SEEP DRAINAGE SECTIONS H AND I

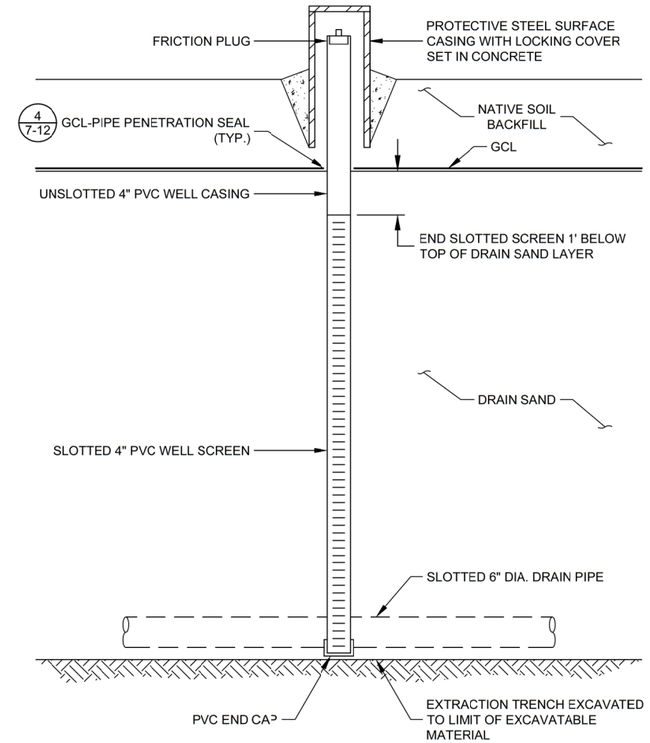
MWH

SHEET 7-11 | REVISION 3
FILE NAME 7-2 | DATE JUNE 2015

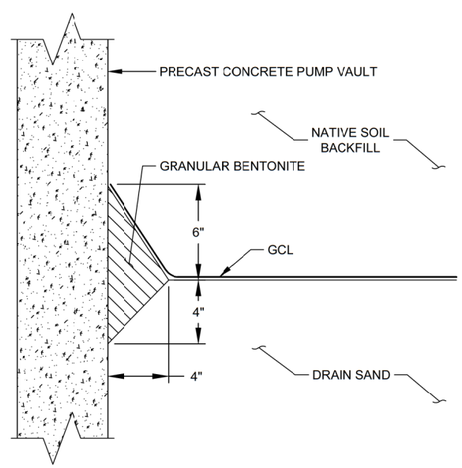
PW:\\AMER-PWINT03.MWHGLOBAL.COM:AM_PROJECTS03\DOCUMENTS\FTC2_NEWMONT\MIDNIGHT MINE\RD-RA\013-SHEET SET\2015-01-01 BOOR\07_GW CONTROLS\7-2.dwg



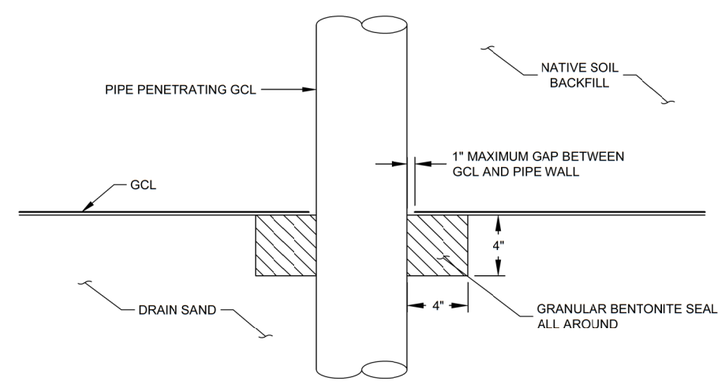
1 7-12 PRECAST CONCRETE PUMP VAULT
NOT TO SCALE



3 7-12 EXTRACTION TRENCH MONITORING WELL
NOT TO SCALE



2 7-12 GCL - STRUCTURE SEAL
NOT TO SCALE



4 7-12 GCL - PIPE PENETRATION
NOT TO SCALE

ISSUE REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	TB	TK	06–15
2	ISSUED FOR 90% DESIGN	TB	TK	07–14

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PROJECT MANAGER	V DRAIN	06–15

NEWMONT

PROJECT LOCATION: WELLPINIT, WASHINGTON
PROJECT: MIDNITE MINE
TITLE: GROUNDWATER COLLECTION SYSTEM DETAILS

MWH

SHEET: 7-12
REVISION: 3
FILE NAME: 7-2
DATE: JUNE 2015

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