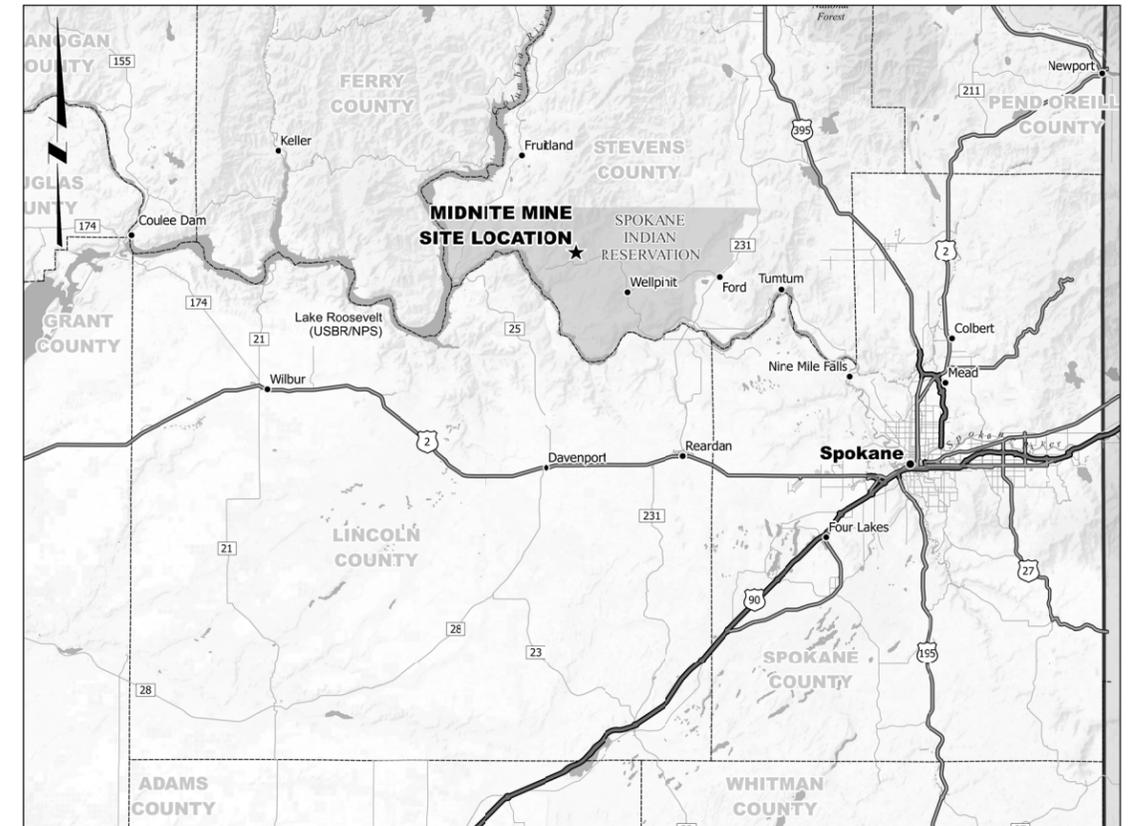


LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

REMEDIAL DESIGN FOR MIDNITE MINE 100 PERCENT DESIGN DRAWINGS ISSUED FOR THE BASIS OF DESIGN REPORT

prepared on behalf of

NEWMONT USA LIMITED
DAWN MINING COMPANY
WELLPINT, WASHINGTON

p:\amervpin03\mh\global.com\AM_PROJECTS03\Documents\F102_Newmont_Wildnight_Mine\RD-RA 01-1-Sheet_Sat\2015-01-01 BDR\01_GENERAL\1-1.dwg

REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	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	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	COVER SHEET	



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

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REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 1 GENERAL	1-1	COVER SHEET
	1-2	INDEX OF DRAWINGS (1 OF 3)
	1-3	INDEX OF DRAWINGS (2 OF 3)
	1-4	INDEX OF DRAWINGS (3 OF 3)
	1-5	MASTER LEGEND AND GENERAL NOTES
	1-6	SITE LOCATION MAP
	1-7	EXISTING CONDITIONS MIDNITE MINE SITE
	1-8	EXISTING CONDITIONS NORTHEAST BLUE CREEK
	1-9	EXISTING CONDITIONS SOUTHWEST BLUE CREEK
	1-10	EXISTING CONDITIONS EAST ACCESS ROAD
	1-11	EXISTING UTILITIES MIDNITE MINE SITE
	1-12	EXISTING UTILITIES NORTHEAST BLUE CREEK
	1-13	EXISTING UTILITIES SOUTHWEST BLUE CREEK
	1-14	EXISTING UTILITIES EAST ACCESS ROAD
	1-15	SUBSURFACE INVESTIGATION LOCATIONS - BOREHOLES
	1-16	SUBSURFACE INVESTIGATION LOCATIONS - TEST PITS (1 OF 2)
	1-17	SUBSURFACE INVESTIGATION LOCATIONS - TEST PITS (2 OF 2)
	1-18	SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS
	1-19	SITE BOUNDARIES MAP
	1-20	SURVEY CONTROL MAP
	1-21	PRINCIPAL REMEDIAL COMPONENTS DESCRIPTIONS
	1-22	PRINCIPAL REMEDIAL COMPONENTS EARLY WORKS
	1-23	PRINCIPAL REMEDIAL COMPONENTS PHASE 1
	1-24	PRINCIPAL REMEDIAL COMPONENTS PHASE 2 (1 OF 2)
	1-25	PRINCIPAL REMEDIAL COMPONENTS PHASE 2 (2 OF 2)
	1-26	PRINCIPAL REMEDIAL COMPONENTS PHASE 3
	1-27	PRINCIPAL REMEDIAL COMPONENTS FINAL REMEDIATION
	1-28	SITE TOPOGRAPHY - END OF PHASE 1
	1-29	SITE TOPOGRAPHY - END OF PHASE 2
	1-30	SITE TOPOGRAPHY - END OF PHASE 3
	1-31	SITE TOPOGRAPHY - END OF REMEDIAL ACTION

REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 2 CONSTRUCTION SUPPORT FACILITIES AND EARLY WORKS	2-1	EARLY WORKS PLAN
	2-2	SOUTHWEST AND SOUTHEAST TOPSOIL STOCKPILES REMOVAL PLAN
	2-3	NORTHEAST AND NORTHWEST TOPSOIL STOCKPILES REMOVAL PLAN
	2-4	WEST ACCESS ROAD AND WHITETAIL CREEK MATERIALS EXCAVATION PLAN
	2-5	SITE ACCESS ROAD INDEX
	2-6	SITE ACCESS ROAD PLAN AND PROFILE - STATION 0+00 TO 5+00
	2-7	SITE ACCESS ROAD PLAN AND PROFILE - STATION 5+00 TO 12+00
	2-8	SITE ACCESS ROAD PLAN AND PROFILE - STATION 12+00 TO 24+00
	2-9	SITE ACCESS ROAD PLAN AND PROFILE - STATION 24+00 TO 36+00
	2-10	SITE ACCESS ROAD PLAN AND PROFILE - STATION 36+00 TO 48+00
	2-11	SITE ACCESS ROAD PLAN AND PROFILE - STATION 48+00 TO 54+00
	2-12	SITE ACCESS ROAD PLAN AND PROFILE - STATION 54+00 TO END
	2-13	SITE ACCESS ROAD CENTERLINE ALIGNMENT AND TYPICAL SECTION SCHEDULE
	2-14	CONSTRUCTION SUPPORT ZONE LAYOUT
	2-15	VEHICLE DECONTAMINATION AREA GRADING PLAN
	2-16	VEHICLE DECONTAMINATION AREA GRADING POINTS
	2-17	DECONTAMINATION ZONE COLLECTION SUMP GRADING PLAN
	2-18	COLLECTION SUMP DRAIN PIPELINE TO WESTERN DRAINAGE PUMP STATION
	2-19	NORTHERN SUPPORT FACILITIES GRADING PLAN
	2-20	SOUTHERN SUPPORT FACILITIES GRADING PLAN
	2-21	CONSTRUCTION SUPPORT ZONE FENCING PLAN
	2-22	ORE STOCKPILE 7 RELOCATION PLAN
	2-23	MATERIAL PROCESSING AND STOCKPILING AREA PREPARATION PLAN
	2-24	EARLY WORKS TYPICAL DETAILS AND SECTIONS (1 OF 6)
	2-25	EARLY WORKS TYPICAL DETAILS AND SECTIONS (2 OF 6)
	2-26	EARLY WORKS TYPICAL DETAILS AND SECTIONS (3 OF 6)
	2-27	EARLY WORKS TYPICAL DETAILS AND SECTIONS (4 OF 6)
	2-28	EARLY WORKS TYPICAL DETAILS AND SECTIONS (5 OF 6)
	2-29	EARLY WORKS TYPICAL DETAILS AND SECTIONS (6 OF 6)
SECTION 3 BORROW AREA	3-101	RHOADS PROPERTY BORROW SOURCE LOCATION MAP
	3-102	RHOADS PROPERTY BORROW AREA PRE-EXCAVATION MAP
	3-103	RHOADS PROPERTY TEMPORARY HAUL ROAD KEY MAP
	3-104	TEMPORARY HAUL ROAD PLAN AND PROFILE STATION 0+00 TO 15+00
	3-105	TEMPORARY HAUL ROAD PLAN AND PROFILE STATION 15+00 TO 30+00
	3-106	TEMPORARY HAUL ROAD PLAN AND PROFILE STATION 30+00 TO 45+00
	3-107	TEMPORARY HAUL ROAD PLAN AND PROFILE STATION 45+00 TO 60+00
	3-108	TEMPORARY HAUL ROAD PLAN AND PROFILE STATION 60+00 TO END
	3-109	RHOADS PROPERTY FINAL RECLAMATION TOPOGRAPHY MAP
	3-110	RECLAIMED BORROW AREA SECTIONS A AND B
	3-111	RECLAIMED BORROW AREA SECTION C
	3-112	BORROW AREA TYPICAL DETAILS AND SECTIONS (1 OF 5)
	3-113	BORROW AREA TYPICAL DETAILS AND SECTIONS (2 OF 5)
	3-114	BORROW AREA TYPICAL DETAILS AND SECTIONS (3 OF 5)
	3-115	BORROW AREA TYPICAL DETAILS AND SECTIONS (4 OF 5)
	3-116	BORROW AREA TYPICAL DETAILS AND SECTIONS (5 OF 5)
	3-117	BORROW AREA TYPICAL DETAILS AND SECTIONS (6 OF 5)
	3-201	FORD BORROW AREA LOCATION MAP
	3-202	FORD BORROW AREA EXISTING CONDITIONS
	3-203	FORD BORROW AREA LAYOUT
3-204	FORD BORROW AREA CROSS SECTIONS	
3-205	FORD BORROW AREA RECLAIMED LAYOUT	

REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 4 MINE WASTE EXCAVATION AND CONTAINMENT	4-1	MINE WASTE LOCATION MAP
	4-2	PHASE 1 - WASTE EXCAVATION AND PIT 4 BACKFILL
	4-3	PHASE 1 - HILLSIDE WASTE ROCK PILE EXCAVATION PLAN
	4-4	PHASE 1 - PIT 4 OVERBURDEN PILE EXCAVATION PLAN
	4-5	PHASE 1 - STOCKPILES 1 AND 2 EXCAVATION PLAN
	4-6	PHASE 1 - STOCKPILES 3, 4, 5 AND 8 EXCAVATION PLAN
	4-7	PHASE 1 - STOCKPILES 6 AND 7 EXCAVATION PLAN
	4-8	PHASE 1 - SOUTH POND BENCH EXCAVATION PLAN
	4-9	PHASE 1 - WESTERN DRAINAGE WASTE EXCAVATION PLAN
	4-10	PHASE 1 - PIT 4 COVER TIE-IN GRADING PLAN
	4-11	PHASE 1 - PIT 4 COVER TIE-IN GRADING POINT TABLE
	4-12	PHASE 1 - PIT 4 BOTTOM EXCAVATION AND GRADING PLAN
	4-13	PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION PLAN
	4-14	PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION GRADING POINTS
	4-15	PHASE 1 - PIT 4 SUB-WASTE LINER INSTALLATION SECTIONS
	4-16	PHASE 1 - PIT 4 INFILTRATION COLLECTION SYSTEM
	4-17	PHASE 1 - PIT 4 TOP OF COVER GRADING PLAN
	4-18	PHASE 1 - PIT 4 TOP OF COVER GRADING POINT TABLE
	4-19	PHASE 1 - EXTENT OF PIT 4 GEOCOMPOSITE DRAINAGE LAYER
	4-20	PHASE 1 - PIT 4 BACKFILL SECTIONS
	4-21	PHASE 1 - PIT 4 NORTH SUBGRADE GRADING PLAN
	4-22	PHASE 1 - PIT 4 NORTH COVER GRADING PLAN
	4-23	PHASE 1 - PIT 4 NORTH SECTIONS
	4-24	PHASE 2 - WASTE EXCAVATION AND PIT 3 AND BPA BACKFILL
	4-25	PHASE 2 - HILLSIDE WASTE ROCK PILE EXCAVATION PLAN
	4-26	PHASE 2 - WESTERN DRAINAGE EXCAVATION PLAN
	4-27	PHASE 2 - EAST WASTE ROCK PILE EXCAVATION PLAN
	4-28	PHASE 2 - PIT 2 WEST SUBGRADE GRADING PLAN
	4-29	PHASE 2 - CONTAMINATED SOIL AND SEDIMENT LOCATION PLAN
	4-30	PHASE 2 - EAST ACCESS ROAD MATERIALS EXCAVATION PLAN
	4-31	PHASE 2 - WESTERN DRAINAGE SEDIMENTS EXCAVATION PLAN
	4-32	PHASE 2 - EASTERN DRAINAGE SEDIMENTS EXCAVATION PLAN
	4-33	PHASE 2 - INTERNAL MINE ROADS MATERIALS EXCAVATION PLAN
	4-34	PHASE 2 - PIT 3 COVER TIE-IN GRADING PLAN
	4-35	PHASE 2 - PIT 3 AND AREA 5 COVER TIE-IN GRADING POINT TABLE
	4-36	PHASE 2 - AREA 5 COVER TIE-IN GRADING PLAN
	4-37	PHASE 2 - PIT 3 BOTTOM EXCAVATION AND GRADING PLAN
	4-38	PHASE 2 - PIT 3 UNDERDRAIN DEWATERING PLAN
	4-39	PHASE 2 - PIT 3 UNDERDRAIN DEWATERING SECTIONS
	4-40	PHASE 2 - PIT 3 SUB-WASTE LINER INSTALLATION PLAN
	4-41	PHASE 2 - PIT 3 SUB-WASTE LINER INSTALLATION SECTIONS
	4-42	PHASE 2 - PIT 3 AND BPA TOP OF COVER GRADING PLAN
	4-43	PHASE 2 - PIT 3 AND BPA TOP OF COVER GRADING POINT TABLE
	4-44	PHASE 2 - PIT 3 AND BPA BACKFILL SECTIONS (1 OF 2)
	4-45	PHASE 2 - PIT 3 AND BPA BACKFILL SECTIONS (2 OF 2)
	4-46	PHASE 2 - AREA 5 COVER GRADING PLAN
	4-47	PHASE 2 - AREA 5 SECTIONS
	4-48	PHASE 2 - PIT 2 WEST COVER GRADING PLAN
	4-49	PHASE 2 - ADIT PIT COVER GRADING PLAN
	4-50	PHASE 2 - PIT 2 WEST AND ADIT PIT SECTIONS
	4-51	PHASE 3 - WASTE EXCAVATION AND PIT 3 AND BPA BACKFILL PLAN
	4-52	PHASE 3 - CENTRAL DRAINAGE EXCAVATION PLAN
	4-53	PHASE 3 - CONTAMINATED SOIL AND SEDIMENT EXCAVATION PLAN
	4-54	PHASE 3 - BPA DEWATERING AND INFILTRATION COLLECTION PLAN
	4-55	PHASE 3 - PIT 3 AND BPA TOP OF COVER GRADING PLAN
	4-56	PHASE 3 - PIT 3 AND BPA TOP OF COVER GRADING POINT TABLE
	4-57	PHASE 3 - PIT 3 TOE AREA GRADING PLAN
	4-58	PHASE 3 - EXTENT OF PIT 3 AND AREA 5 GEOCOMPOSITE DRAINAGE LAYER
	4-59	PHASE 3 - PIT 3 AND BPA BACKFILL SECTIONS (1 OF 2)

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

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CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	INDEX OF DRAWINGS (1 OF 3)	

SHEET	1-2	REVISION	3
FILE NAME	1-2	DATE	JUNE 2015

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REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 4 MINE WASTE EXCAVATION AND CONTAINMENT (CONTINUED)	4-60	PHASE 3 - PIT 3 AND BPA BACKFILL SECTIONS (2 OF 2)
	4-61	PERMANENT MAINTENANCE ROADS KEY MAP
	4-62	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 0+00 TO 12+00
	4-63	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 12+00 TO 24+00
	4-64	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 24+00 TO 36+00
	4-65	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 36+00 TO 48+00
	4-66	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 48+00 TO 60+00
	4-67	PIT 4 MAINTENANCE ROAD PLAN AND PROFILE - STATION 60+00 TO END
	4-68	PIT 3 MAINTENANCE ROAD PLAN AND PROFILE - STATION 0+00 TO END
	4-69	BPA MAINTENANCE ROAD PLAN AND PROFILE - STATION 0+00 TO 8+50
	4-70	BPA MAINTENANCE ROAD PLAN AND PROFILE - STATION 8+50 TO 17+00
	4-71	BPA MAINTENANCE ROAD PLAN AND PROFILE - STATION 17+00 TO END
	4-72	PERMANENT MAINTENANCE ROADS LINE AND CURVE TABLES
	4-73	PHASE 3 - INTERIM FENCING PLAN
	4-74	FINAL REMEDIATION GRADING PLAN
	4-75	FINAL REMEDIATION - WEST POND REGRAVING PLAN
	4-76	WCA SETTLEMENT MONITORING POINTS PLAN
	4-77	FINAL REMEDIATION - PERMANENT ACCESS BARRIER PLAN
	4-78	REVEGETATION AREAS
	4-79	DETAILS AND TYPICAL SECTIONS (1 OF 20)
	4-80	DETAILS AND TYPICAL SECTIONS (2 OF 20)
	4-81	DETAILS AND TYPICAL SECTIONS (3 OF 20)
	4-82	DETAILS AND TYPICAL SECTIONS (4 OF 20)
	4-83	DETAILS AND TYPICAL SECTIONS (5 OF 20)
	4-84	DETAILS AND TYPICAL SECTIONS (6 OF 20)
	4-85	DETAILS AND TYPICAL SECTIONS (7 OF 20)
	4-86	DETAILS AND TYPICAL SECTIONS (8 OF 20)
	4-87	DETAILS AND TYPICAL SECTIONS (9 OF 20)
	4-88	DETAILS AND TYPICAL SECTIONS (10 OF 20)
	4-89	DETAILS AND TYPICAL SECTIONS (11 OF 20)
	4-90	DETAILS AND TYPICAL SECTIONS (12 OF 20)
	4-91	DETAILS AND TYPICAL SECTIONS (13 OF 20)
	4-92	DETAILS AND TYPICAL SECTIONS (14 OF 20)
	4-93	DETAILS AND TYPICAL SECTIONS (15 OF 20)
	4-94	DETAILS AND TYPICAL SECTIONS (16 OF 20)
	4-95	DETAILS AND TYPICAL SECTIONS (17 OF 20)
	4-96	DETAILS AND TYPICAL SECTIONS (18 OF 20)
	4-97	DETAILS AND TYPICAL SECTIONS (19 OF 20)
	4-98	DETAILS AND TYPICAL SECTIONS (20 OF 20)

REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 5 WATER MANAGEMENT PONDS	5-1	STORAGE PONDS GENERAL LAYOUT
	5-2	SOUTH POND GRADING PLAN
	5-3	SOUTH POND SUMP PLAN
	5-4	SOUTH POND SECTIONS
	5-5	SOUTH POND EMERGENCY SPILLWAY GRADING PLAN
	5-6	SOUTH POND EMERGENCY SPILLWAY PROFILE
	5-7	WEST POND GRADING PLAN
	5-8	WEST POND SUMP PLAN
	5-9	WEST POND SECTIONS
	5-10	WEST POND EMERGENCY SPILLWAY GRADING PLAN
	5-11	WEST POND EMERGENCY SPILLWAY PROFILE
	5-12	TYPICAL DETAILS AND SECTIONS (1 OF 4)
	5-13	TYPICAL DETAILS AND SECTIONS (2 OF 4)
	5-14	TYPICAL DETAILS AND SECTIONS (3 OF 4)
	5-15	TYPICAL DETAILS AND SECTIONS (4 OF 4)
	5-16	SOUTH POND DETAILS (1 OF 4)
	5-17	SOUTH POND DETAILS (2 OF 4)
	5-18	SOUTH POND DETAILS (3 OF 4)
	5-19	SOUTH POND DETAILS (4 OF 4)
	5-20	WEST POND DETAILS (1 OF 3)
	5-21	WEST POND DETAILS (2 OF 3)
	5-22	WEST POND DETAILS (3 OF 3)
SECTION 6 SURFACE WATER AND SEDIMENT CONTROLS	6-1	EXISTING CONDITIONS
	6-2	POST REMEDIATION STORM WATER CONTROLS
	6-3	END OF PHASE 1 STORM WATER CONTROLS
	6-4	END OF PHASE 2 STORM WATER CONTROLS
	6-5	END OF PHASE 3 STORM WATER CONTROLS
	6-6	PIT 4 WEST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 0+00 TO 11+00
	6-7	PIT 4 WEST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 11+00 TO 22+00
	6-8	PIT 4 WEST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 22+00 TO END
	6-9	PIT 4 EAST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 0+00 TO 11+00
	6-10	PIT 4 EAST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 11+00 TO 22+00
	6-11	PIT 4 EAST DOWNDRAIN CHANNEL PLAN AND PROFILE - STA 22+00 TO END
	6-12	PIT 3 WEST DOWNDRAIN CHANNEL - STATION 0+00 TO 11+00
	6-13	PIT 3 WEST DOWNDRAIN CHANNEL - STATION 11+00 TO 22+00
	6-14	PIT 3 WEST DOWNDRAIN CHANNEL - STATION 22+00 TO END
	6-15	PIT 3 EAST DOWNDRAIN CHANNEL - STATION 0+00 TO 11+00
	6-16	PIT 3 EAST DOWNDRAIN CHANNEL - STATION 11+00 TO END
	6-17	TEMPORARY WEST POND INTERCEPTOR DITCH - STA 0+00 TO END
	6-18	TYPICAL TEMPORARY STORMWATER CONTROL
	6-19	CHANNEL DETAILS
	6-20	PERIMETER CHANNEL PLAN
	6-21	TRANSITION DETAILS (SHEET 1 OF 2)
	6-22	TRANSITION DETAILS (SHEET 2 OF 2)
	6-23	FLCW ATTENUATION EMBANKMENT PLAN VIEWS
	6-24	FLCW ATTENUATION EMBANKMENT DETAILS (SHEET 1 OF 2)
	6-25	FLCW ATTENUATION EMBANKMENT DETAILS (SHEET 2 OF 2)
SECTION 7 GROUNDWATER CONTROLS	7-1	LOCATION OF ALLUVIAL GROUNDWATER CONTROLS
	7-2	WESTERN AND CENTRAL DRAINAGE DETAILED PLAN VIEW
	7-3	WESTERN DRAINAGE SECTION A
	7-4	WESTERN DRAINAGE SECTION B
	7-5	WESTERN DRAINAGE SECTION C
	7-6	CENTRAL DRAINAGE SECTION D
	7-7	CENTRAL DRAINAGE BARRIER WALL
	7-8	CENTRAL DRAINAGE EXTRACTION TRENCH
	7-9	FAR EAST SEEP DRAINAGE DETAILED PLAN VIEW
	7-10	FAR EAST SEEP DRAINAGE SECTION C
	7-11	FAR EAST SEEP DRAINAGE SECTIONS H AND I
	7-12	GROUNDWATER COLLECTION SYSTEM DETAILS

REMEDIAL DESIGN FOR MIDNITE MINE		
REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 8 DEMOLITION	8-1	DEMOLITION PLAN - MIDNITE MINE SITE
	8-2	DEMOLITION PLAN - EAST ACCESS ROAD
	8-3	DEMOLITION AND REMOVAL PLAN - CONSTRUCTION SUPPORT FACILITIES
	8-4	PLAN VIEW - DEMOLITION DEBRIS DISPOSAL ZONES
	8-5	PIT 4 - DEMOLITION DEBRIS DISPOSAL ZONES SECTIONS
	8-6	PIT 3 - DEMOLITION DEBRIS DISPOSAL ZONE SECTIONS (1 OF 2)
	8-7	PIT 3 - DEMOLITION DEBRIS DISPOSAL ZONE SECTIONS (2 OF 2)
SECTION 9 WATER TREATMENT PLANT	SECTION 9 DRAWINGS HAVE NOT BEEN UPDATED FOR THE 100% DESIGN AND ARE NOT INCLUDED IN THIS DRAWING SET. AS COMMUNICATED WITH EPA ON MAY 20, 2014, WTP AND EFFLUENT PIPELINE DESIGNS HAVE BEEN PLACED ON HOLD UNTIL THE MIDNITE NPDES PERMIT IS REISSUED.	
SECTION 10 WATER TREATMENT PLANT INFLUENT AND EFFLUENT PIPELINE	10-1	GENERAL PIPELINES SHEET
	10-2	OVERALL PERMANENT PIPELINE PLAN
	10-3	OVERALL INFLUENT PIPELINES PLAN - START OF PHASE 1
	10-4	SHEET INDEX - START OF PHASE 1 - PIT 4 TO PIT 3 PIPELINE
	10-5	START OF PHASE 1 - PIT 4 TO PIT 3 PIPELINE - STATION 0+00 TO 15+00
	10-6	START OF PHASE 1 - PIT 4 TO PIT 3 PIPELINE - STATION 15+00 TO 30+00
	10-7	START OF PHASE 1 - PIT 4 TO PIT 3 PIPELINE - STATION 30+00 TO 45+00
	10-8	START OF PHASE 1 - PIT 4 TO PIT 3 PIPELINE - STATION 45+00 TO END
	10-9	OVERALL INFLUENT PIPELINES PLAN - END OF PHASE 1
	10-10	SHEET INDEX - END OF PHASE 1 - PIT 4 TO SOUTH POND PIPELINE
	10-11	END OF PHASE 1 - PIT 4 TO SOUTH POND PIPELINE - STATION 0+00 TO 15+00
	10-12	END OF PHASE 1 - PIT 4 TO SOUTH POND PIPELINE - STATION 15+00 TO 30+00
	10-13	END OF PHASE 1 - PIT 4 TO SOUTH POND PIPELINE - STATION 30+00 TO 45+00
	10-14	END OF PHASE 1 - PIT 4 TO SOUTH POND PIPELINE - STATION 45+00 TO END
	10-15	SHEET INDEX - END OF PHASE 1 - GW-54 TO SOUTH POND PIPELINE
	10-16	END OF PHASE 1 - GW-54 TO SOUTH POND PIPELINE - STATION 0+00 TO END
	10-17	SHEET INDEX - END OF PHASE 1 - PIT 3 TO SOUTH POND PIPELINES
	10-18	END OF PHASE 1 - PIT 3 TO SOUTH POND PIPELINE - STATION 0+00 TO 11+00
	10-19	END OF PHASE 1 - PIT 3 TO SOUTH POND PIPELINE - STATION 11+00 TO END
	10-20	SHEET INDEX - END OF PHASE 1 - PCP TO SOUTH POND PIPELINE
	10-21	END OF PHASE 1 - PCP TO SOUTH POND PIPELINE - STATION 0+00 TO END
	10-22	SHEET INDEX - END OF PHASE 1 - SOUTH POND TO WTP PIPELINE
	10-23	END OF PHASE 1 - SOUTH POND TO WTP PIPELINE - STATION 0+00 TO 18+00
	10-24	END OF PHASE 1 - SOUTH POND TO WTP PIPELINE - STATION 18+00 TO 36+00
	10-25	END OF PHASE 1 - SOUTH POND TO WTP PIPELINE - STATION 36+00 TO END
	10-26	END OF PHASE 1 - ALLUVIAL GROUNDWATER CAPTURE INFLUENT PIPELINES
	10-27	END OF PHASE 1 - ALLUVIAL GROUNDWATER INFLUENT PIPELINES - STATION 0+00 TO END
	10-28	OVERALL INFLUENT PIPELINES PLAN - END OF PHASE 2
	10-29	SHEET INDEX - END OF PHASE 2 - PIT 4 TO WEST POND PIPELINE
	10-30	END OF PHASE 2 - PIT 4 TO WEST POND PIPELINE - STATION 0+00 TO 11+00
	10-31	END OF PHASE 2 - PIT 4 TO WEST POND PIPELINE - STATION 11+00 TO 22+00
	10-32	END OF PHASE 2 - PIT 4 TO WEST POND PIPELINE - STATION 22+00 TO 33+00
	10-33	END OF PHASE 2 - PIT 4 TO WEST POND PIPELINE - STATION 33+00 TO END
	10-34	SHEET INDEX - END OF PHASE 2 - PIT 3 TO INTERSECTION AND WEST POND TO WTP PIPELINES
	10-35	END OF PHASE 2 - PIT 3 TO INTERSECTION PIPELINE - STATION 0+00 TO 15+00
	10-36	END OF PHASE 2 - PIT 3 TO INTERSECTION PIPELINE - STATION 15+00 TO 30+00
	10-37	END OF PHASE 2 - PIT 3 TO INTERSECTION PIPELINE - STATION 30+00 TO END
	10-38	END OF PHASE 2 - WEST POND TO WTP PIPELINE - STATION 0+00 TO END
	10-39	END OF PHASE 2 - GW-54 TO WEST POND PIPELINE
	10-40	END OF PHASE 2 - GW-54 TO WEST POND PIPELINE - STATION 0+00 TO 10+00
	10-41	END OF PHASE 2 - GW-54 TO WEST POND PIPELINE - STATION 10+00 TO END
	10-42	END OF PHASE 2 - ALLUVIAL GROUNDWATER CAPTURE INFLUENT PIPELINES
	10-43	END OF PHASE 2 - FAR EAST DRAINAGE TO TRENCHES WET WELL PIPELINE - STATION 0+00 TO END
	10-44	END OF PHASE 2 - TRENCHES WET WELL TO WTP PIPELINE - STATION 0+00 TO END
	10-45	OVERALL INFLUENT PIPELINES PLAN - END OF PHASE 3

ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
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DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	INDEX OF DRAWINGS (2 OF 3)	
SHEET	1-3	REVISION 3
FILE NAME	1-2	DATE JUNE 2015



REMEDIAL DESIGN FOR MIDNITE MINE

REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 10 WATER TREATMENT PLANT INFLUENT AND EFFLUENT PIPELINE (CONTINUED)	10-46	SHEET INDEX -END OF PHASE 3 PIPELINE PIT 4 TO WEST POND
	10-47	END OF PHASE 3 - PIT 4 TO WEST PCND PIPELINE - STATION 0+00 TO 15+00
	10-48	END OF PHASE 3 - PIT 4 TO WEST PCND PIPELINE - STATION 15+00 TO 30+00
	10-49	END OF PHASE 3 - PIT 4 TO WEST PCND PIPELINE - STATION 30+00 TO 43+00
	10-50	END OF PHASE 3 - PIT 4 TO WEST PCND PIPELINE - STATION 43+00 TO END
	10-51	SHEET INDEX - END OF PHASE 3 - PIT 3 TO INTERSECTION PIPELINE
	10-52	END OF PHASE 3 - PIT 3 TO INTERSECTION PIPELINE - STATION 0+00 TO 10+00
	10-53	END OF PHASE 3 - PIT 3 TO INTERSECTION PIPELINE - STATION 10+00 TO END
	10-54	SHEET INDEX - END OF PHASE 3 - GW-54 TO INTERSECTION PIPELINE
	10-55	END OF PHASE 3 - GW-54 TO INTERSECTION - STATION 0+00 TO END
	10-56	OVERALL INFLUENT PIPELINES PLAN -POST-RA
	10-57	SHEET INDEX - POST-RA - PIT 4 TO WTP PIPELINE
	10-58	POST-RA - PIT 4 TO WTP PIPELINE - STATION 32+00 TO 48+00
	10-59	POST-RA - PIT 4 TO WTP PIPELINE - STATION 48+00 TO 64+00
	10-60	POST-RA - PIT 4 TO WTP PIPELINE - STATION 64+00 TO END
	10-61	SHEET INDEX -POST-RA - INTERSECTION TO WTP PIPELINE
	10-62	POST-RA - INTERSECTION TO WTP PIPELINE - STATION 0+00 TO END
	10-63	OVERALL EFFLUENT PIPELINE PLAN - PERMANENT
	10-64	SHEET INDEX -PERMANENT WTP TO LAKE PIPELINE
	10-65	EFFLUENT PIPELINE PLAN AND PROFILE STATION 0+00 TO 17+00
	10-66	EFFLUENT PIPELINE PLAN AND PROFILE STATION 17+00 TO 34+00
	10-67	EFFLUENT PIPELINE PLAN AND PROFILE STATION 34+00 TO 51+00
	10-68	EFFLUENT PIPELINE PLAN AND PROFILE STATION 51+00 TO 68+00
	10-69	EFFLUENT PIPELINE PLAN AND PROFILE STATION 68+00 TO 85+00
	10-70	EFFLUENT PIPELINE PLAN AND PROFILE STATION 85+00 TO 102+00
	10-71	EFFLUENT PIPELINE PLAN AND PROFILE STATION 102+00 TO 119+00
	10-72	EFFLUENT PIPELINE PLAN AND PROFILE STATION 119+00 TO 136+00
	10-73	EFFLUENT PIPELINE PLAN AND PROFILE STATION 136+00 TO 153+00
	10-74	EFFLUENT PIPELINE PLAN AND PROFILE STATION 153+00 TO 170+00
	10-75	EFFLUENT PIPELINE PLAN AND PROFILE STATION 170+00 TO 187+00
	10-76	EFFLUENT PIPELINE PLAN AND PROFILE STATION 187+00 TO 204+00
	10-77	EFFLUENT PIPELINE PLAN AND PROFILE STATION 204+00 TO 221+00
	10-78	EFFLUENT PIPELINE PLAN AND PROFILE STATION 221+00 TO 238+00
	10-79	EFFLUENT PIPELINE PLAN AND PROFILE STATION 238+00 TO 255+00
	10-80	EFFLUENT PIPELINE PLAN AND PROFILE STATION 255+00 TO 272+00
	10-81	EFFLUENT PIPELINE PLAN AND PROFILE STATION 272+00 TO END
	10-82	TYPICAL DETAILS AND SECTIONS (SHEET 1 OF 12)
	10-83	TYPICAL DETAILS AND SECTIONS (SHEET 2 OF 12)
	10-84	TYPICAL DETAILS AND SECTIONS (SHEET 3 OF 12)
	10-85	TYPICAL DETAILS AND SECTIONS (SHEET 4 OF 12)
	10-86	TYPICAL DETAILS AND SECTIONS (SHEET 5 OF 12)
	10-87	TYPICAL DETAILS AND SECTIONS (SHEET 6 OF 12)
	10-88	TYPICAL DETAILS AND SECTIONS (SHEET 7 OF 12)
10-89	TYPICAL DETAILS AND SECTIONS (SHEET 8 OF 12)	
10-90	TYPICAL DETAILS AND SECTIONS (SHEET 9 OF 12)	
10-91	TYPICAL DETAILS AND SECTIONS (SHEET 10 OF 12)	
10-92	TYPICAL DETAILS AND SECTIONS (SHEET 11 OF 12)	
10-93	TYPICAL DETAILS AND SECTIONS (SHEET 12 OF 12)	

REMEDIAL DESIGN FOR MIDNITE MINE

REMEDIAL COMPONENT	SHEET NUMBER	DESCRIPTION
SECTION 11 TEMPORARY POWER DISTRIBUTION AND PUMP CONTROLS	11-1	EXISTING POWER LINE MIDNITE MINE SITE
	11-2	PUMP SCHEDULE
	11-3	ELECTRICAL P&ID LEGEND
	11-4	ELECTRICAL P&ID EXISTING STRUCTURES
	11-5	ELECTRICAL PHASE 1 P&ID (START)
	11-6	ELECTRICAL PHASE 2 P&ID (START)
	11-7	ELECTRICAL PHASE 3 P&ID (START)
	11-8	ELECTRICAL PHASE 3 P&ID (END)
	11-9	ELECTRICAL P&ID END OF REMEDIAL ACTION
	11-10	ELECTRICAL TYPICAL PLC PANEL LAYOUT
	11-11	ELECTRICAL PLC AC/DC WIRING DIAGRAM
	11-12	ELECTRICAL PLC ANALOG INPUT WIRING DIAGRAM
	11-13	ELECTRICAL PLC DISCRETE /O WIRING DIAGRAM
	11-14	ELECTRICAL LEGEND AND NOTES
	11-15	ELECTRICAL PANEL MOUNTING SKID DETAILS 1
	11-16	ELECTRICAL PANEL MOUNTING SKID DETAILS 2
	11-17	ELECTRICAL DUPLEX FVNR CONTROL SCHEMATIC
	11-18	ELECTRICAL SIMPLEX FVNR CONTROL SCHEMATIC

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PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	INDEX OF DRAWINGS (3 OF 3)	
SHEET	1-4	REVISION 3
FILE NAME	1-2	DATE JUNE 2015



LEGEND:

- EXISTING GROUND SURFACE ELEVATION, FEET
- PROPOSED GROUND SURFACE ELEVATION, FEET
- PROPOSED GROUND SURFACE GRADE BREAKLINE
- EXISTING ROAD
- EXISTING DRAINAGE
- EXISTING TRAIL
- FENCE
- EXISTING POWER LINE
- ORE/PROTORE STOCKPILE BOUNDARY
- OVERHEAD POWERLINE

MISCELLANEOUS SYMBOLS:

- BOREHOLE
- MONITORING/PUMPING WELL
- PIEZOMETER
- TEST PIT
- SURFACE WATER MONITORING LOCATION
- HORIZONTAL AND VERTICAL SURVEY CONTROL POINT
- CULVERT
- SLOPE RATIO
- SLOPE INDICATOR
- STRUCTURE
- WATER LEVEL
- DETAIL IDENTIFICATION
- DRAWING NO. WHERE DETAIL IS SHOWN
- PROFILE OR CROSS SECTION IDENTIFICATION
- DRAWING NO. WHERE PROFILE/SECTION IS SHOWN
- APPROXIMATE EXISTING GROUND SURFACE ELEVATION
- FINAL DESIGN ELEVATION
- FLOW ARROW
- GRADING POINT

GENERAL:

- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- ALL BUILDING COORDINATES ARE TO OUTSIDE CORNER OF COLUMN OR BUILDING.
- CONTRACTOR SHALL RESTORE ALL SURVEY MONUMENTS THAT ARE DAMAGED OR DESTROYED DURING CONSTRUCTION.

UTILITIES:

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POTHOLE FOR EXISTING UTILITIES PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FOR POINTS OF CONNECTIONS.
- THE CONTRACTOR SHALL PROTECT ALL REMAINING EXISTING UTILITIES.
- LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
- PRIOR TO ANY CONNECTION TO AN EXISTING UTILITY, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY OWNER.
- PRIOR TO ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES, INCLUDING ALL WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; ALL BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; ALL TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ALL ROADWAY, STATE HIGHWAY, AND RAILROAD RIGHTS-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR SUCH FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF SAID OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE. IN THE CASE OF THE UNDERGROUND UTILITY SERVICE ALERT CENTER, THIS NOTICE WILL GIVE THEM TIME TO MARK THE LOCATION OF THE UTILITIES. THE CONTRACTOR SHALL ALSO NOTIFY THE REGIONAL OR LOCAL UNDERGROUND SERVICE ALERT COMPANY AT LEAST 3 DAYS, BUT NO MORE THAN 7 DAYS, PRIOR TO SUCH EXCAVATION.

PIPING:

- THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 INCHES OF COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
- STRAIGHT SLOPES SHALL BE MAINTAINED BETWEEN INVERT ELEVATIONS SHOWN OR SPECIFIED.
- THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, PULL BOXES AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED. MANHOLES IN OPEN FIELDS SHALL BE SET ONE FOOT ABOVE GRADE. APPROXIMATE RIM ELEVATIONS ARE SHOWN ON DRAWINGS.

EROSION CONTROL:

- THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR WORK PRIOR TO THE START OF CONSTRUCTION.
 - ALL SLOPES SHALL BE PROTECTED FROM EROSION DURING ROUGH GRADING OPERATIONS AND THEREAFTER, UNTIL INSTALLATION OF FINAL GROUND COVER.
 - ALL SLOPE PROTECTION SWALES SHALL BE CONSTRUCTED AT THE SAME TIME AS BANKS ARE GRADED.
 - THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES CONTAINED WITHIN THE CONTRACT SPECIFICATIONS OR AS REQUIRED BY THE CITY, DISTRICT, OR OTHER REGULATORY AUTHORITY. THE CONTRACTOR SHALL ALSO PROVIDE ANY ADDITIONAL EROSION CONTROL MEASURES (E.G. HYDROSEEDING, MULCHING OF STRAW, SAND BAGGING, DIVERSION DITCHES, ETC.) DICTATED BY FIELD CONDITIONS TO PREVENT EROSION OR THE INTRODUCTION OF DIRT, MUD, OR DEBRIS INTO EXISTING PUBLIC STREETS, WATERWAYS, OR ONTO ADJACENT PROPERTIES DURING ANY PHASE OF CONSTRUCTION OPERATIONS.

ACRONYMS:

- AMSL ABOVE MEAN SEA LEVEL
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
- ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS
- BH BORE HOLE
- BIA BUREAU OF INDIAN AFFAIRS
- BMP BEST MANAGEMENT PRACTICE
- BPA BACKFILLED PITS AREA
- CGS CLEARING, GRUBBING, STRIPPING
- CMP CORRUGATED METAL PIPE
- CND CONDUIT
- CONT CONTINUOUS
- CL CENTER LINE
- CP CONTROL POINT
- CPE CORRUGATED POLYETHYLENE
- CPT CORRUGATED POLYETHYLENE TUBING
- CSF CONSTRUCTION SUPPORT FACILITIES
- CSWPPP CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN
- CSZ CONSTRUCTION SUPPORT ZONE
- CTC CENTER TO CENTER
- CY CUBIC YARD
- D₅₀ LENGTH EQUAL TO THE PARTICLE-SIZE WHICH IS LARGER THAN 50% OF RIPRAP
- DECON DECONTAMINATION
- DI DUCTILE IRON
- DIA DIAMETER
- DMC DAWN MINING COMPANY
- DS DOWNSTREAM
- EL ELEVATION
- EP END POINT
- ELEV ELEVATION
- ENV ENVIRONMENTAL
- EOP EDGE OF PAVEMENT
- EQUIV EQUIVALENT
- EWRP EAST WASTE ROCK PILE
- FE FINAL EFFLUENT
- FES FAR EAST SEEP
- GA GAUGE
- GB GRADE BREAK
- GCL GEOSYNTHETIC CLAY LINER
- GDL GEOCOMPOSITE DRAINAGE LAYER
- GW GROUNDWATER
- HCL HYDROCHLORIC ACID
- HOR HORIZONTAL
- HP HIGH POINT
- HDPE HIGH DENSITY POLYETHYLENE
- HSWRP HILLSIDE WASTE ROCK FILE
- HWL HIGH WATER LINE
- HWY HIGHWAY
- ID INSIDE DIAMETER
- INV INVERT

ACRONYMS (CONTD):

- JTS JOINTS
- K K-VALUE OF VERTICAL CURVE
- LCP LOCAL CONTROL PANEL
- LF LINEAL FOOT
- LLDPE LINEAR LOW-DENSITY POLYETHYLENE
- LOX LIQUID OXYGEN
- LP LOW POINT
- LWL LOW WATER LINE
- MA MINE AREA
- MAX MAXIMUM
- mil 1/1000TH OF AN INCH
- MIN MINIMUM
- MW MONITORING WELL
- MH MANHOLE
- MSL MEAN SEA LEVEL
- NAD27 NORTH AMERICAN DATUM OF 1927
- NAD83 NORTH AMERICAN DATUM OF 1983
- NAVD88 NORTH AMERICAN VERTICAL DATUM OF 1988
- NGVD29 NATIONAL GEODETIC VERTICAL DATUM OF 1929
- NO NUMBER
- NOM NOMINAL
- NPS NATIONAL PARK SERVICE
- NPT NATIONAL PIPE TAPER
- NPDES NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
- NTS NOT TO SCALE
- OC ON CENTER
- OD OUTSIDE DIAMETER
- OSHA OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
- OX OXYGEN
- OZ OUNCE
- P & P PLAN AND PROFILE
- PC POINT OF CURVE
- PCC POINT OF COMPOUND CURVE
- PCP POLLUTION CONTROL POND
- PI POINT OF INTERSECTION
- PMWE PRETREATED MINE WATER EQUALIZATION
- PRC POINT OF RETURN CURVE
- PSI POUNDS PER SQUARE INCH
- PT POINT OF TANGENCY
- PVC POLYVINYL CHLORIDE
- PVI POINT OF VERTICAL INTERSECTION
- PVR PRESSURE/VACUUM RELEASE
- PVT POINT OF VERTICAL TANGENT
- Q FLOWRATE
- R RADIUS
- RA REMEDIAL ACTION
- RAD RADIUS
- RCP REINFORCED CONCRETE PIPE
- REQ'D REQUIRED
- RL RELATIVE ELEVATION

ACRONYMS (CONTD):

- RMWE RAW MINE WATER EQUALIZATION
- ROW RIGHT OF WAY
- RW RAW WATER
- SCH SCHEDULE
- SDR STANDARD DIMENSION RATIO
- SDTS STRUCTURE DEMOLITION TEMPORARY STOCKPILE
- SPECS SPECIFICATIONS
- SS STAINLESS STEEL
- STA STATION
- STI SPOKANE TRIBE OF INDIANS
- SW SURFACE WATER
- SY SQUARE YARD
- SWMP STORM WATER MANAGEMENT PLAN
- SWRP SOUTH WASTE ROCK PILE
- TDA TAILINGS DISPOSAL AREA
- TISS TEMPORARY IMPACTED SOIL STOCKPILE
- TOC TOP OF CONCRETE
- TYP TYPICAL
- US UPSTREAM
- USBM UNITED STATES BUREAU OF MINES
- USBR UNITED STATES BUREAU OF RECLAMATION
- VC VERTICAL CURVE
- VERT VERTICAL
- WCA WASTE CONTAINMENT AREA
- WMP WATER MANAGEMENT POND
- WTP WATER TREATMENT PLANT

IMPERIAL UNITS:

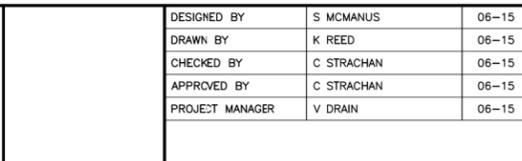
- " OR IN INCHES
- OZ OUNCES
- F FAHRENHEIT
- ' OR FT FEET
- MI MILES
- YD YARD
- SQ MI SQUARE MILES
- AC ACRE
- AC-FT ACRE-FEET
- * OR DEGREES DEGREES
- 4.9% SLOPE GRADE
- CFS CUBIC FEET PER SECOND
- FPS FEET PER SECOND

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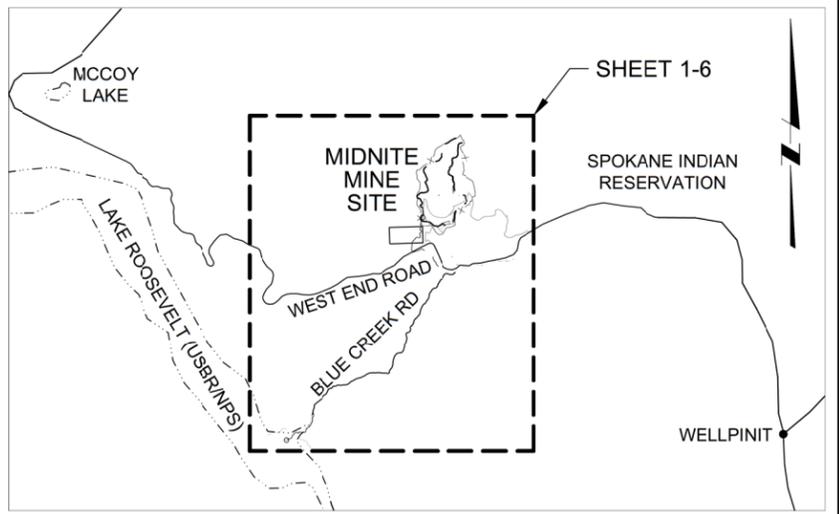
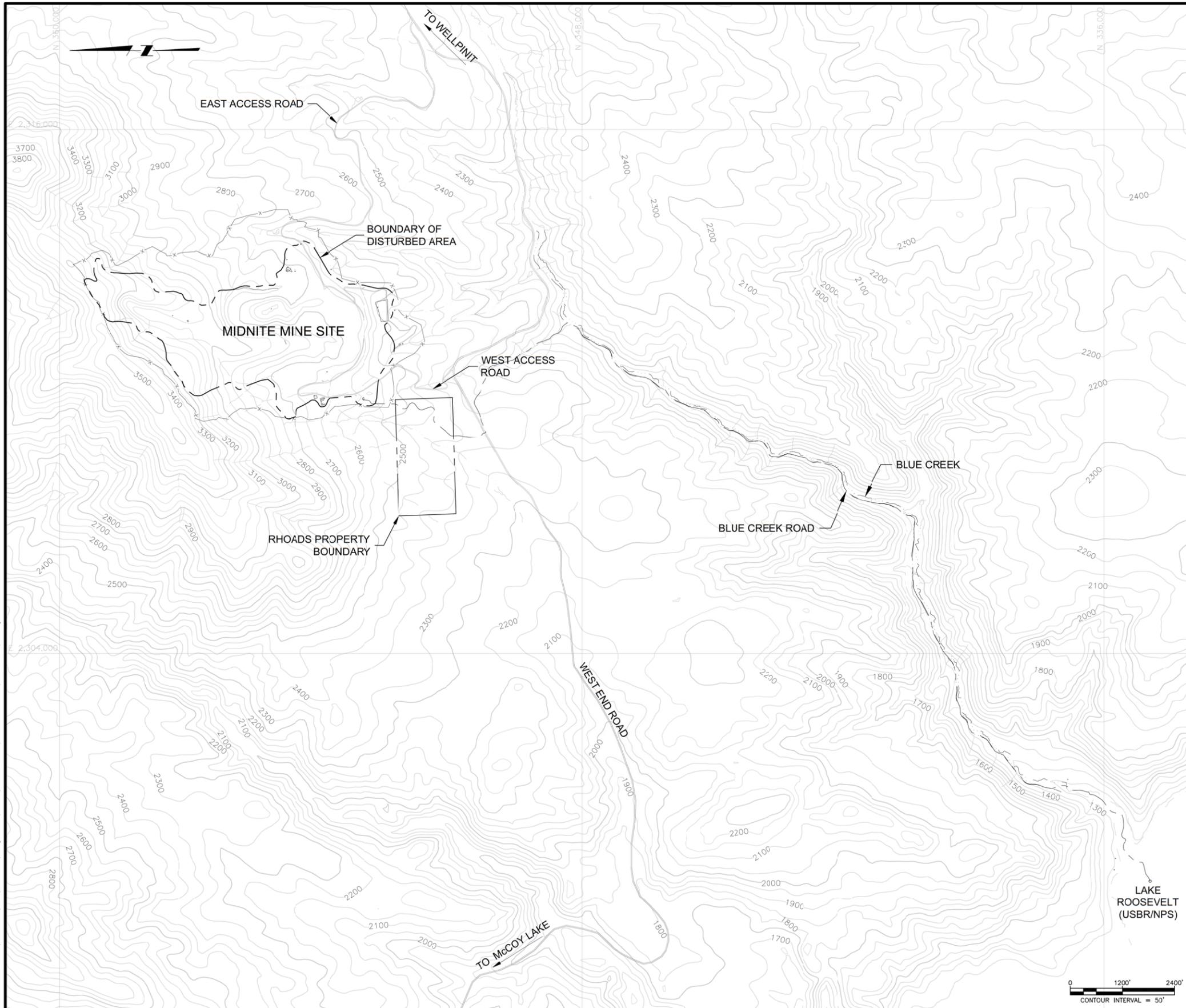
DESIGNED BY S MCMANUS 06-15
DRAWN BY K REED 06-15
CHECKED BY C STRACHAN 06-15
APPROVED BY C STRACHAN 06-15
PROJECT MANAGER V DRAIN 06-15



PROJECT LOCATION WELLPINIT, WASHINGTON
PROJECT MIDNITE MINE
TITLE MASTER LEGEND AND GENERAL NOTES

SHEET	1-5	REVISION	3
FILE NAME	1-5	DATE	JUNE 2015





KEY MAP
NOT TO SCALE

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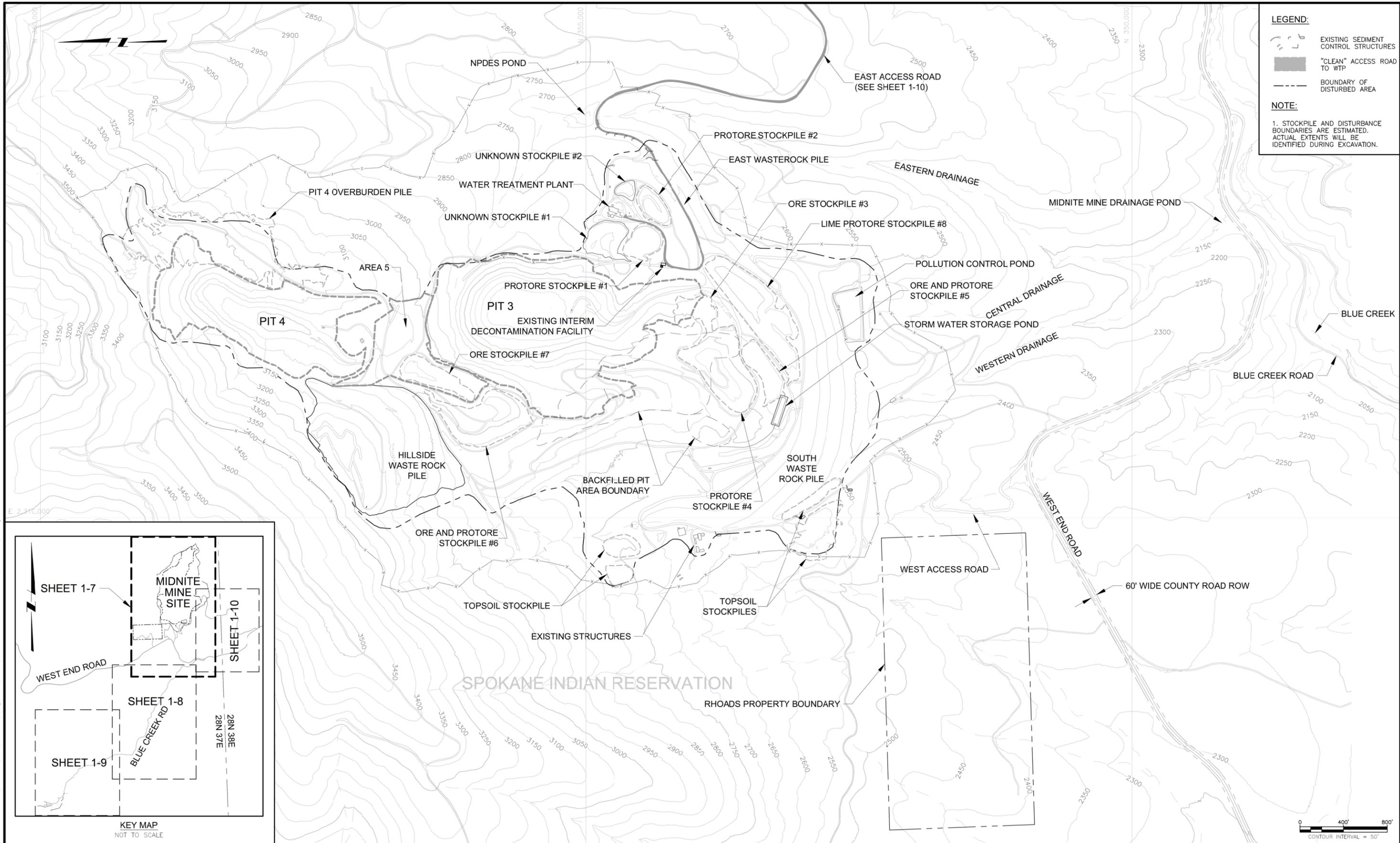
DRAWING REFERENCE(S):
* EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8.
* PREVIOUS TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USBR, 1995 AND PROVIDED BY DAWN MINING COMPANY. ORIGINAL COORDINATE SYSTEM USED IN USBR MAPPING (NAD83/NAVDS8) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
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CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE LOCATION MAP	

	SHEET	1-6	REVISION	3
	FILE NAME	1-6	DATE	JUNE 2015

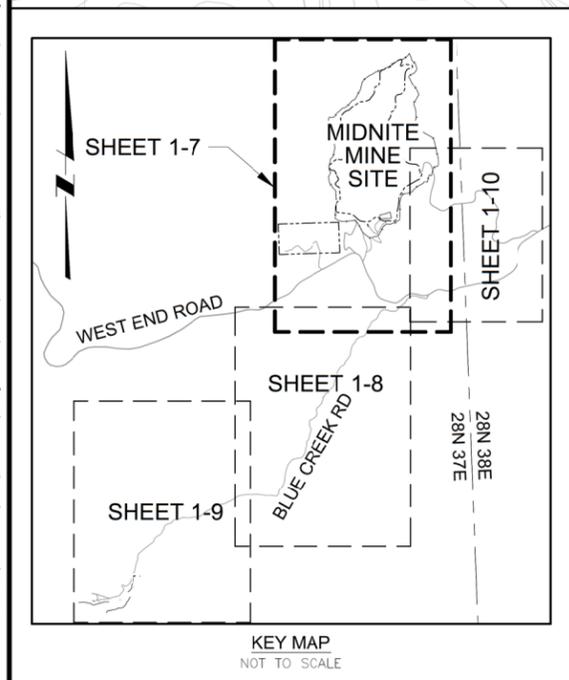


LEGEND:

- EXISTING SEDIMENT CONTROL STRUCTURES
- "CLEAN" ACCESS ROAD TO WTP
- BOUNDARY OF DISTURBED AREA

NOTE:

1. STOCKPILE AND DISTURBANCE BOUNDARIES ARE ESTIMATED. ACTUAL EXTENTS WILL BE IDENTIFIED DURING EXCAVATION.



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3	ISSUED FOR 100% DESIGN		KR	SM	06-15
2	ISSUED FOR 90% DESIGN		CE	SM	07-14
1	ISSUED FOR 60% DESIGN		KT	SM	12-13
0	ISSUED FOR 30% DESIGN		DM	SM	12-12

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DRAWING REFERENCE(S):
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 * PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL NAD83/NAV088 COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAV029) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

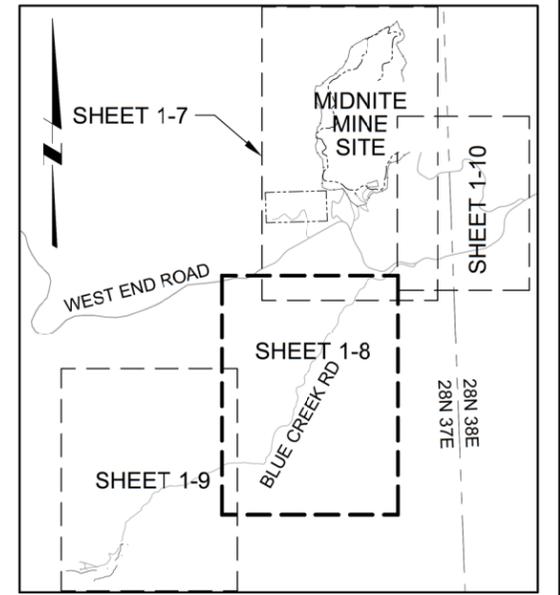
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



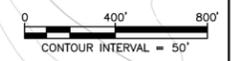
PROJECT LOCATION	WELLPINIT, WASHINGTON
PROJECT	MIDNITE MINE
TITLE	EXISTING CONDITIONS MIDNITE MINE SITE

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

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KEY MAP
NOT TO SCALE



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ISSUE	DESCRIPTION	TECH	ENG	DATE
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2	ISSUED FOR 90% DESIGN	CE	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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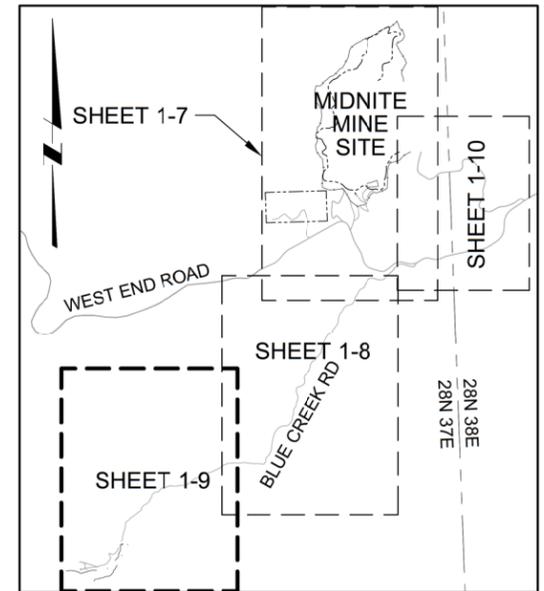
DRAWING REFERENCE(S):
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 * TOPOGRAPHY CONTOURS ADJACENT TO LIDAR MAPPING DOWNLOADED FROM "SEAMLESS.USGS.GOV".

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING CONDITIONS NORTHEAST BLUE CREEK	

	SHEET	1-8	REVISION	3
	FILE NAME	1-8	DATE	JUNE 2015



KEY MAP
NOT TO SCALE

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2		ISSUED FOR 90% DESIGN	CE	SM	07-14
1		ISSUED FOR 60% DESIGN	KT	SM	12-13
0		ISSUED FOR 30% DESIGN	DM	SM	12-12

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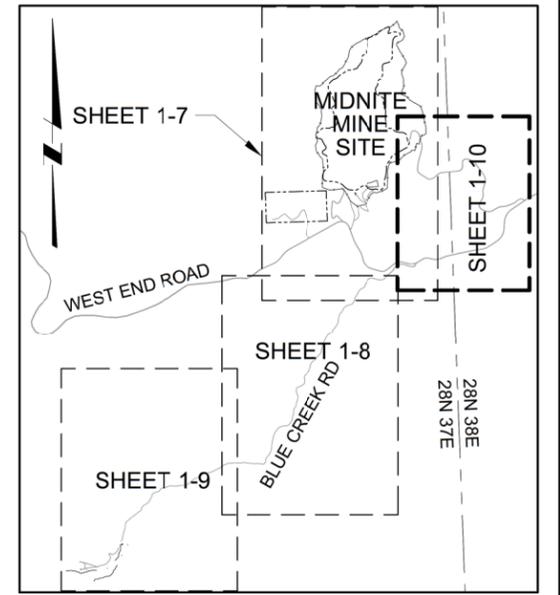
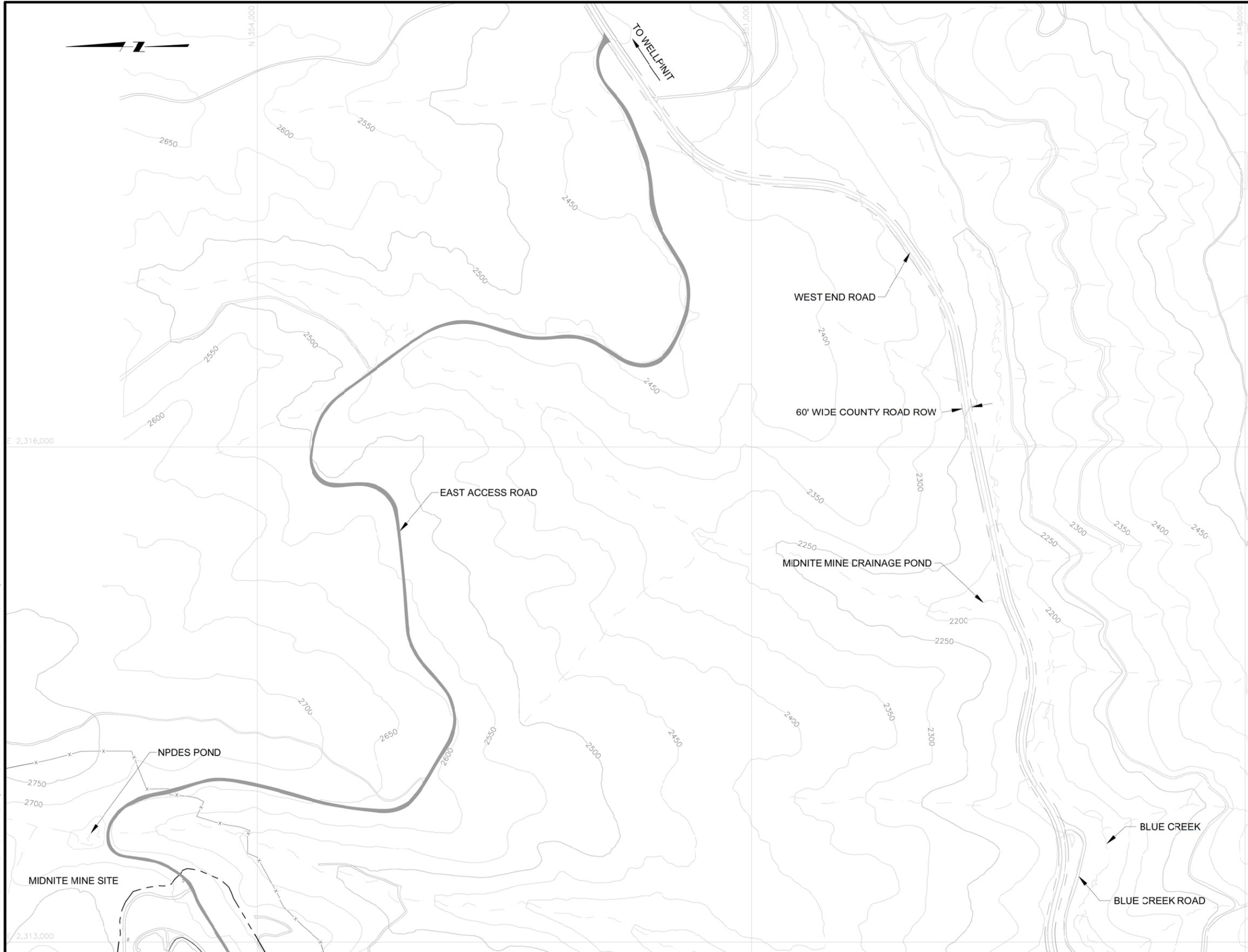
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 * TOPOGRAPHY CONTOURS ADJACENT TO LIDAR MAPPING DOWNLOADED FROM "SEAMLESS.USGS.GOV".

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON
PROJECT	MIDNITE MINE
TITLE	EXISTING CONDITIONS SOUTHWEST BLUE CREEK

	SHEET	1-9	REVISION	3
	FILE NAME	1-9	DATE	JUNE 2015



KEY MAP
NOT TO SCALE

LEGEND:

"CLEAN" ACCESS ROAD TO WTP

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REV	ISSUE	DESCRIPTION	TECH	ENG	DATE
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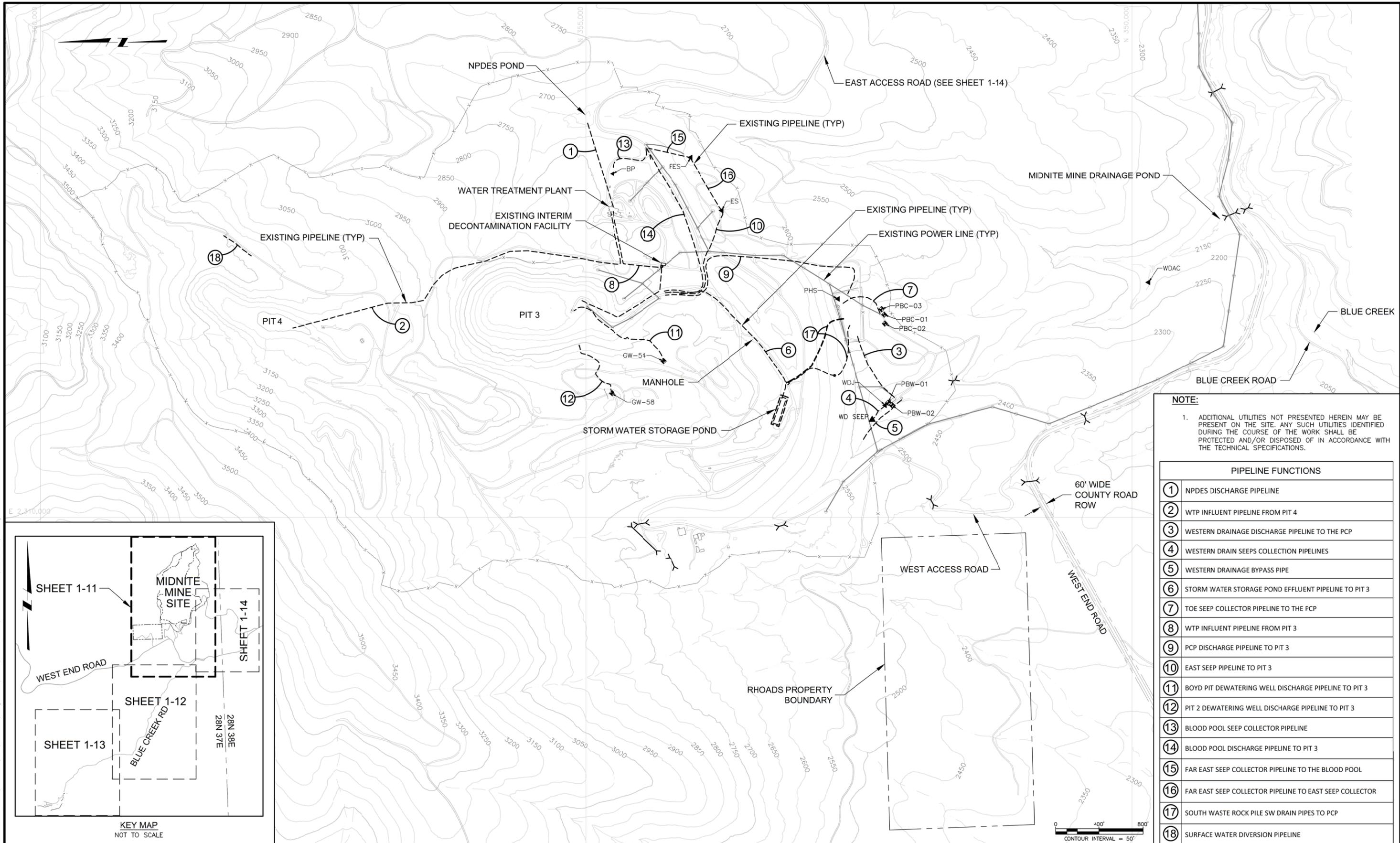
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DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING CONDITIONS EAST ACCESS ROAD	



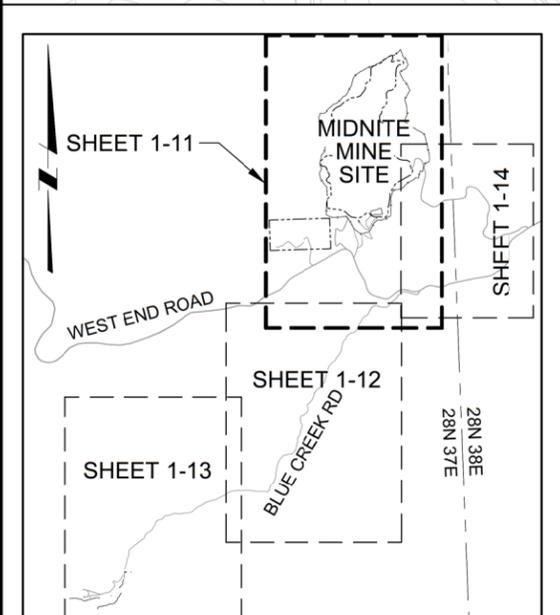
	SHEET	1-10	REVISION	3
	FILE NAME	1-10	DATE	JUNE 2015



NOTE:

- ADDITIONAL UTILITIES NOT PRESENTED HEREIN MAY BE PRESENT ON THE SITE. ANY SUCH UTILITIES IDENTIFIED DURING THE COURSE OF THE WORK SHALL BE PROTECTED AND/OR DISPOSED OF IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.

PIPELINE FUNCTIONS	
①	NPDES DISCHARGE PIPELINE
②	WTP INFLUENT PIPELINE FROM PIT 4
③	WESTERN DRAINAGE DISCHARGE PIPELINE TO THE PCP
④	WESTERN DRAIN SEEPS COLLECTION PIPELINES
⑤	WESTERN DRAINAGE BYPASS PIPE
⑥	STORM WATER STORAGE POND EFFLUENT PIPELINE TO PIT 3
⑦	TOE SEEP COLLECTOR PIPELINE TO THE PCP
⑧	WTP INFLUENT PIPELINE FROM PIT 3
⑨	PCP DISCHARGE PIPELINE TO PIT 3
⑩	EAST SEEP PIPELINE TO PIT 3
⑪	BOYD PIT DEWATERING WELL DISCHARGE PIPELINE TO PIT 3
⑫	PIT 2 DEWATERING WELL DISCHARGE PIPELINE TO PIT 3
⑬	BLOOD POOL SEEP COLLECTOR PIPELINE
⑭	BLOOD POOL DISCHARGE PIPELINE TO PIT 3
⑮	FAR EAST SEEP COLLECTOR PIPELINE TO THE BLOOD POOL
⑯	FAR EAST SEEP COLLECTOR PIPELINE TO EAST SEEP COLLECTOR
⑰	SOUTH WASTE ROCK PILE SW DRAIN PIPES TO PCP
⑱	SURFACE WATER DIVERSION PIPELINE



KEY MAP
NOT TO SCALE

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3	ISSUED FOR 100% DESIGN	KR	SM	06-15
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

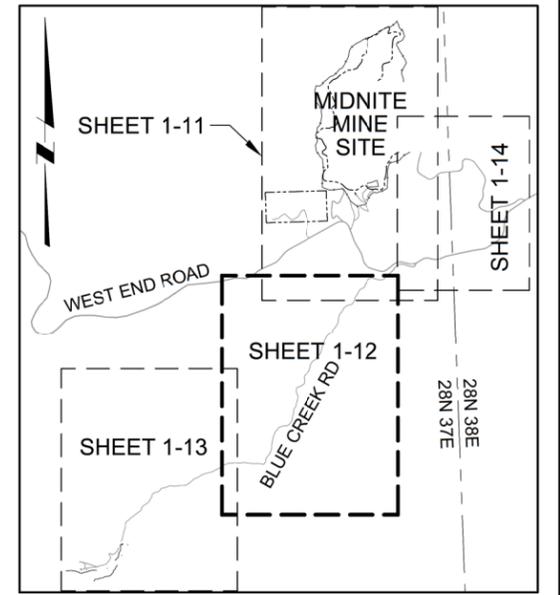
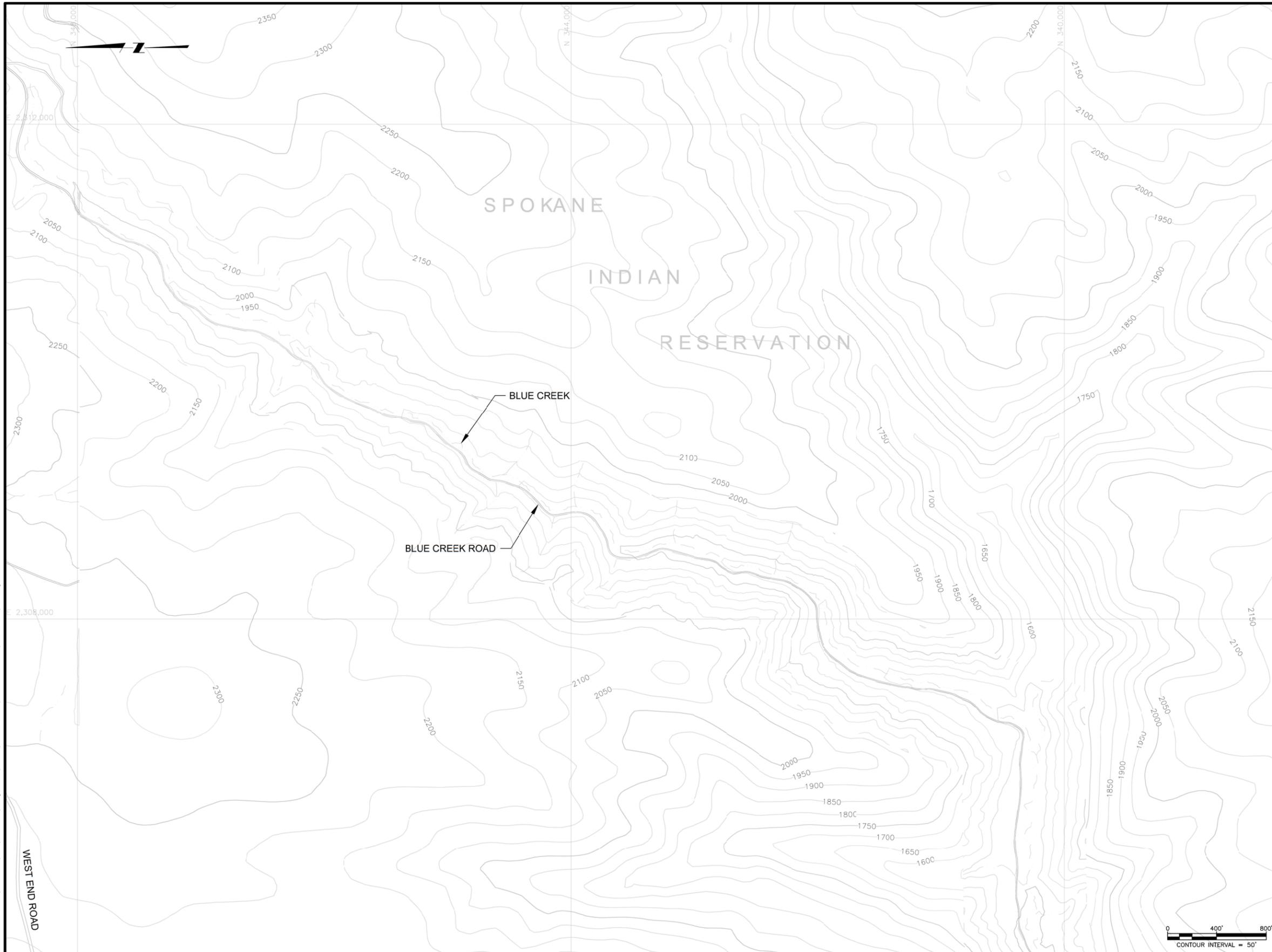


PROJECT LOCATION	WELLPIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING UTILITIES MIDNITE MINE SITE	

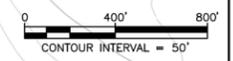
SHEET	1-11	REVISION	3
FILE NAME	1-11	DATE	JUNE 2015



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KEY MAP
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ISSUE	DESCRIPTION	TECH	ENG	DATE
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2	ISSUED FOR 90% DESIGN	CE	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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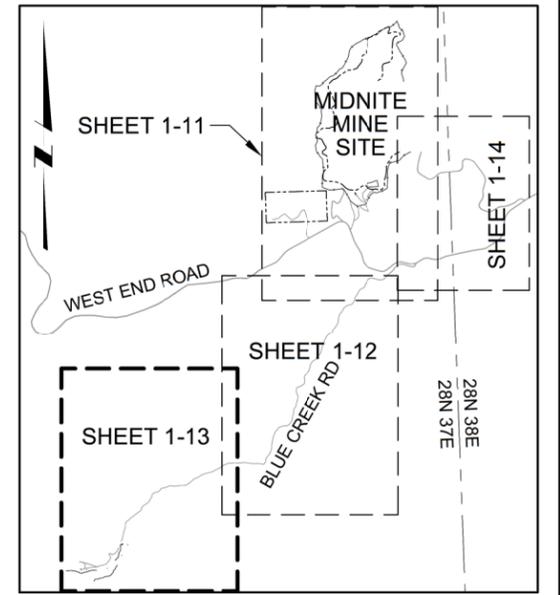
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



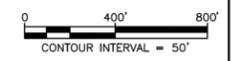
PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING UTILITIES NORTHEAST BLUE CREEK	

	SHEET	1-12	REVISION	3
	FILE NAME	1-12	DATE	JUNE 2015

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KEY MAP
NOT TO SCALE



ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
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2		ISSUED FOR 90% DESIGN	CE	SM	07-14
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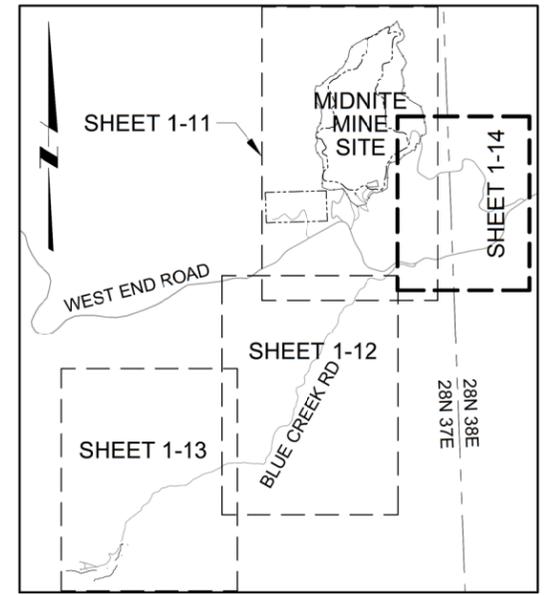
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

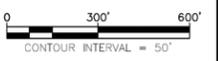


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING UTILITIES SOUTHWEST BLUE CREEK	

	SHEET	1-13	REVISION	3
	FILE NAME	1-13	DATE	JUNE 2015



KEY MAP
NOT TO SCALE



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
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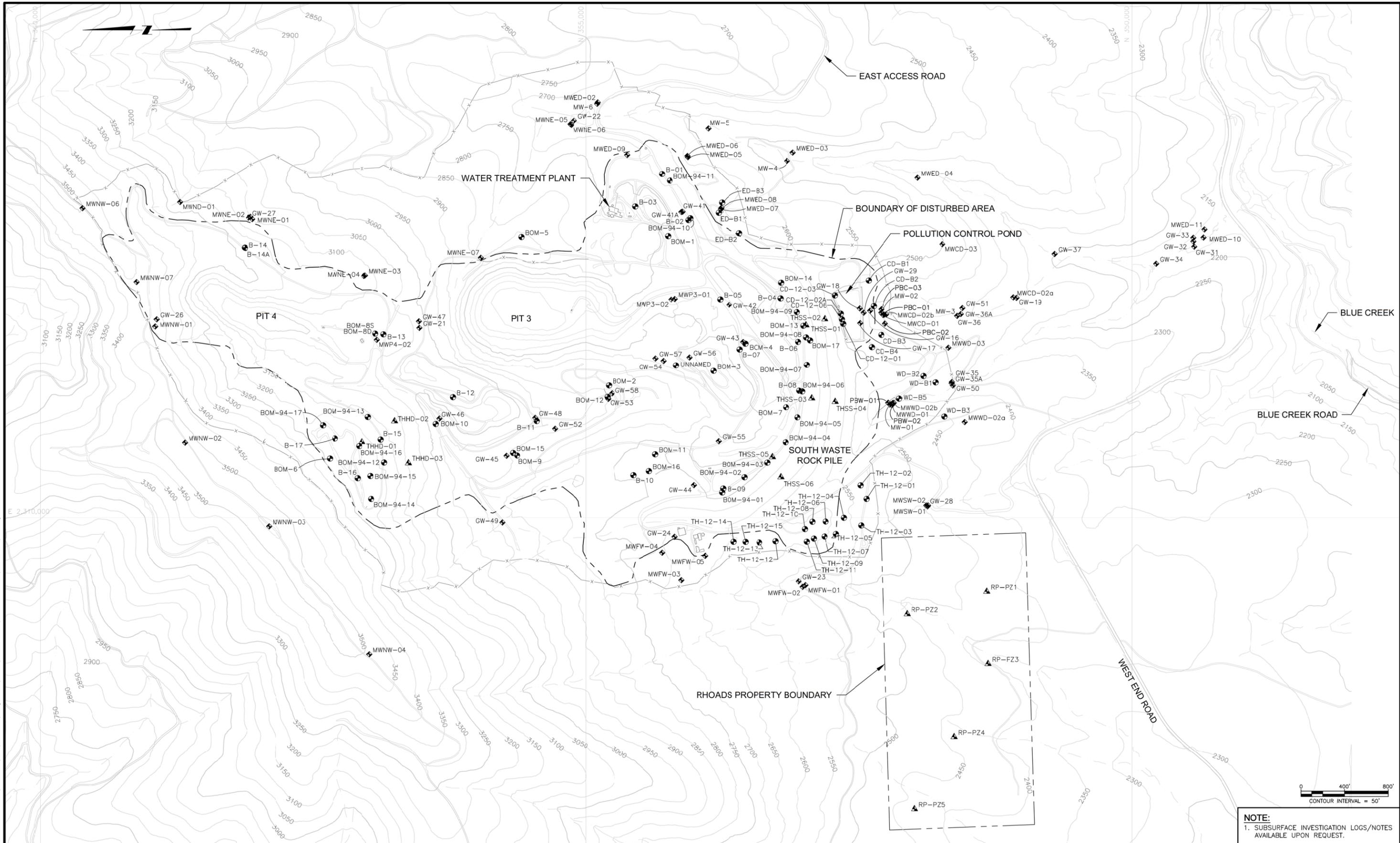
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	EXISTING UTILITIES EAST ACCESS ROAD	

SHEET	1-14	REVISION	3
	FILE NAME		1-14



NOTE:
 1. SUBSURFACE INVESTIGATION LOGS/NOTES AVAILABLE UPON REQUEST.

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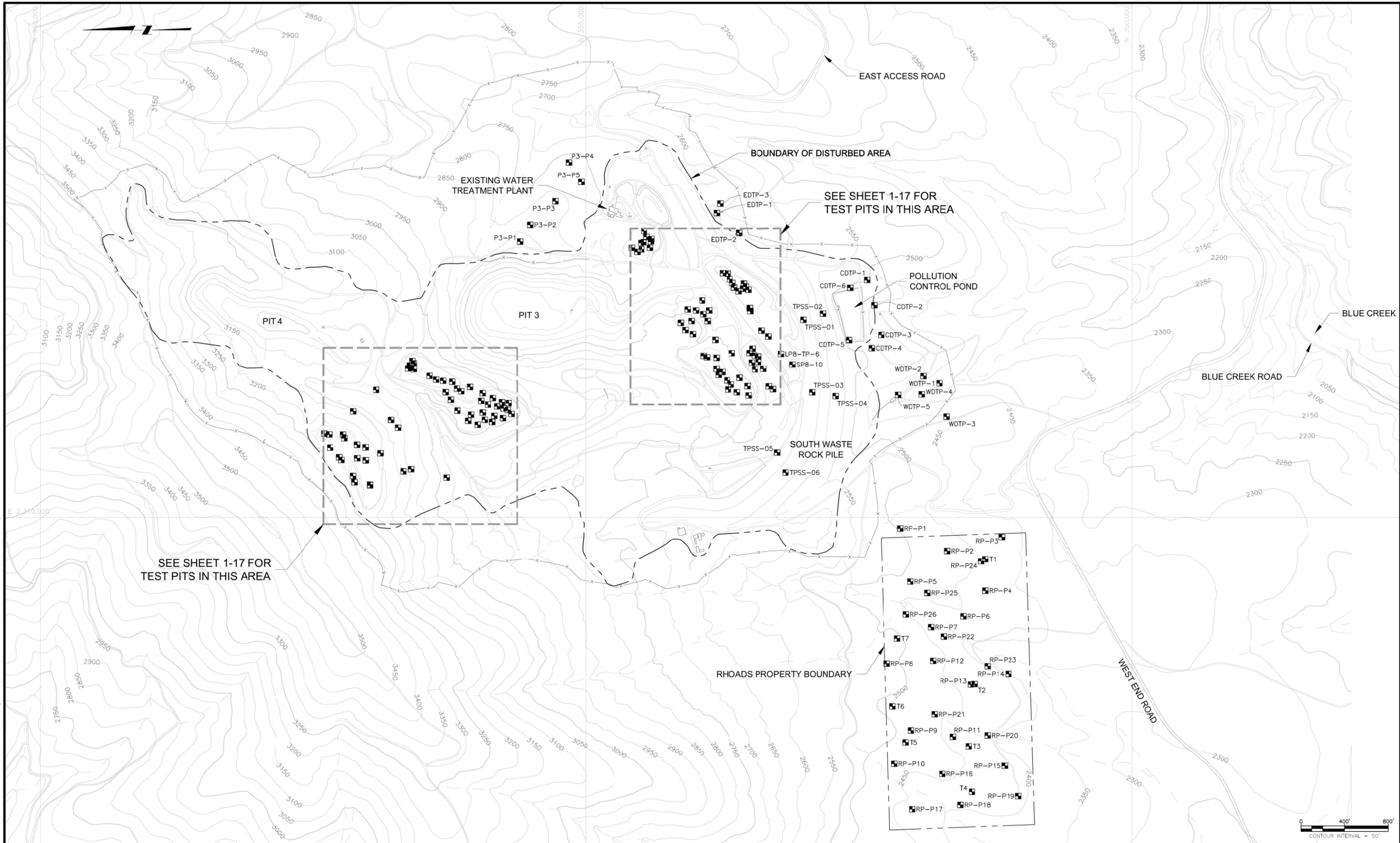
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SUBSURFACE INVESTIGATION LOCATIONS - BOREHOLES	

	SHEET	1-15	REVISION	3
	FILE NAME	1-15	DATE	JUNE 2015



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REV	DESCRIPTION	TECH	ENG	DATE
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2	ISSUED FOR 90% DESIGN	CE	SM	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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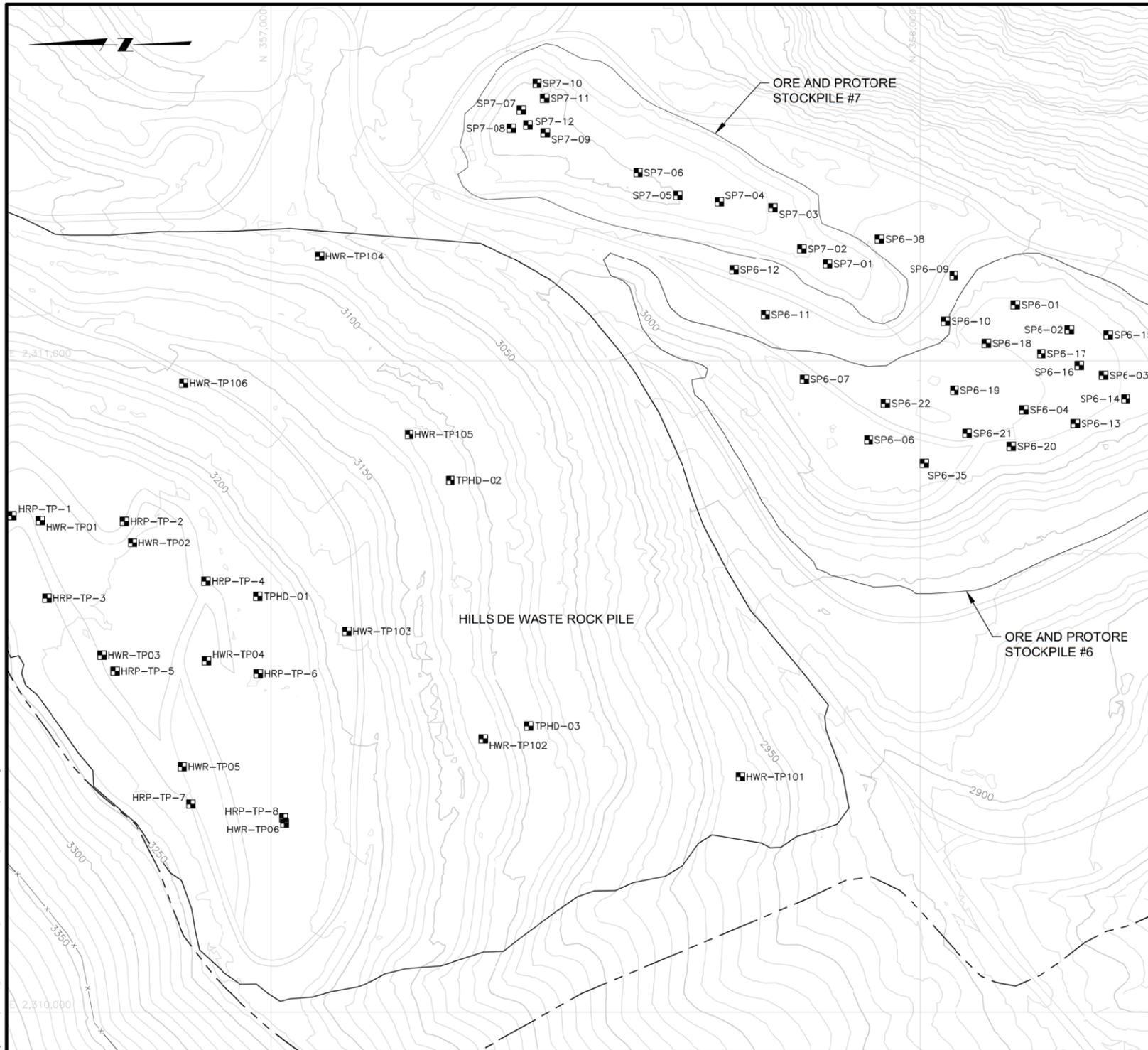
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
 * PREWINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL, 1995 AND PROVIDED BY DAWN MINING COMPANY. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

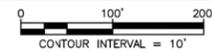


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SUBSURFACE INVESTIGATION LOCATIONS - TEST PITS (1 OF 2)	

	SHEET	1-16	REVISION	3
	FILE NAME	1-16	DATE	JUNE 2015



NORTH TEST PIT LOCATIONS



SOUTH TEST PIT LOCATIONS



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

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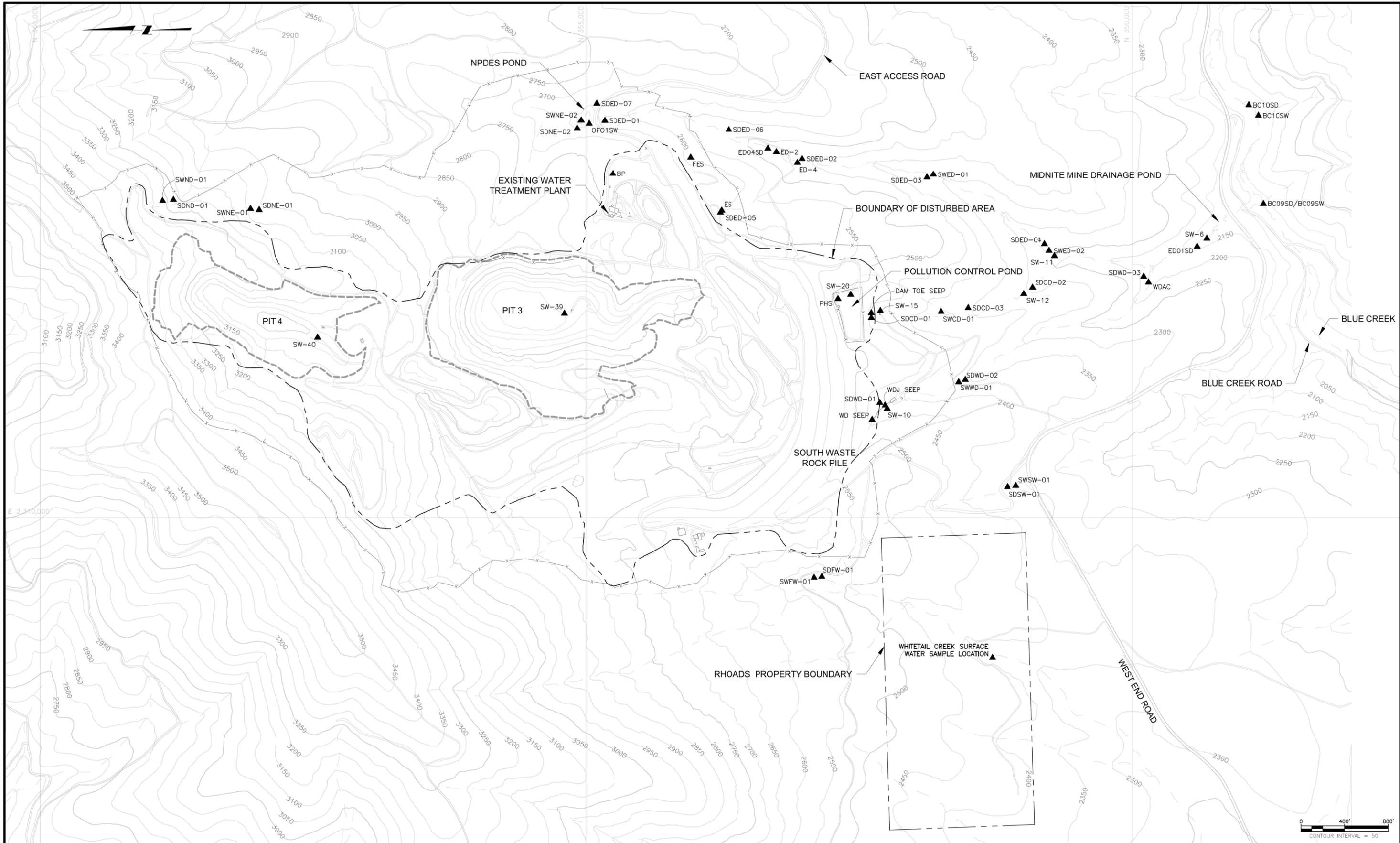
DRAWING REFERENCE(S):
* EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAV088.
* PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAV029) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SUBSURFACE INVESTIGATION LOCATIONS - TEST PITS (2 OF 2)	

	SHEET	1-17	REVISION	3
	FILE NAME	1-17	DATE	JUNE 2015



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 N 4,600,000

REV	DESCRIPTION	TECH	ENG	DATE
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2	ISSUED FOR 90% DESIGN	CE	SM	07-14
1	ISSUED FOR 60% DESIGN	KT	SM	12-13
0	ISSUED FOR 30% DESIGN	DM	SM	12-12

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 * PRE-MINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL, 1995 AND PROVIDED BY DAWN MINING COMPANY. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD83/NAV029) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.

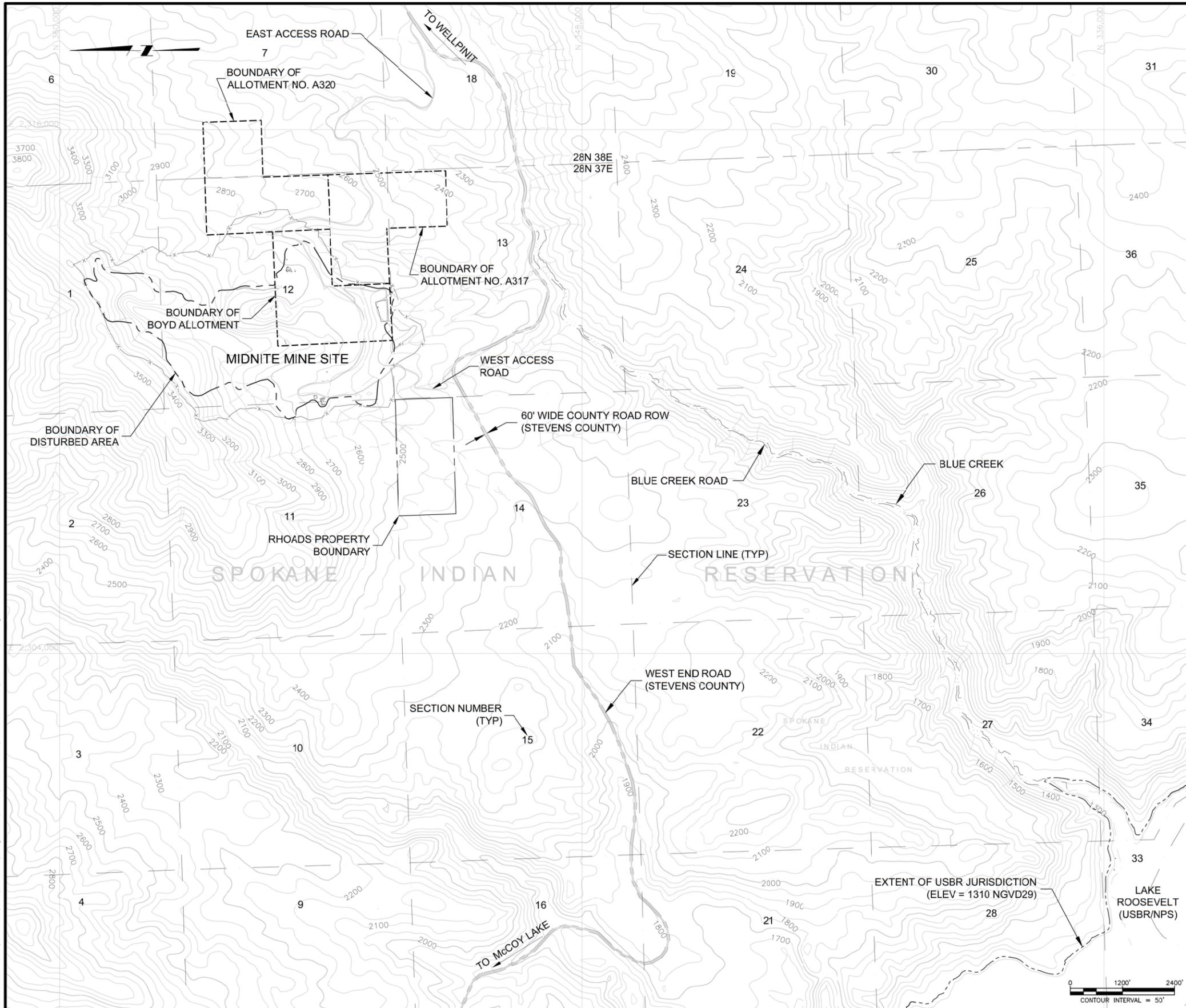
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS	

SHEET	1-18	REVISION	3
FILE NAME	1-18	DATE	JUNE 2015





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REV	DESCRIPTION	TECH	ENG	DATE
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DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8.
 * PREWINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY JEROME HAZ, 1995 AND PROVIDED BY DAWN MINING COMPANY. ORIGINAL COORDINATE SYSTEM USED IN USBM MAPPING (NAD27/NGVD29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8 COORDINATES.
 * TOPOGRAPHY CONTOURS ADJACENT TO LIDAR MAPPING DOWNLOADED FROM "SEAMLESS.USGS.GOV".

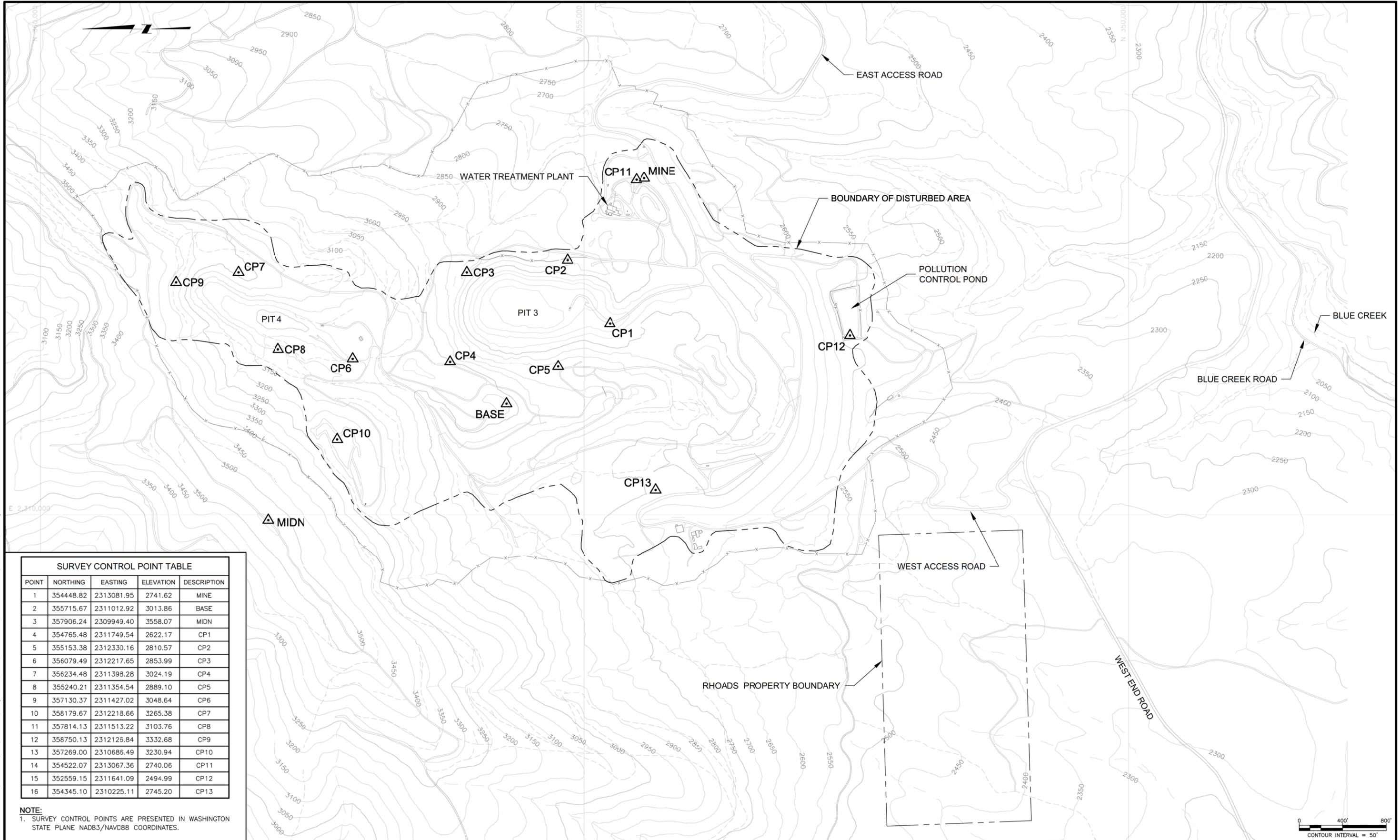
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE BOUNDARIES MAP	

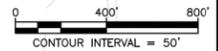
SHEET	1-19	REVISION	3
	FILE NAME	1-19	DATE





SURVEY CONTROL POINT TABLE				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	354448.82	2313081.95	2741.62	MINE
2	355715.67	2311012.92	3013.86	BASE
3	357906.24	2309949.40	3558.07	MIDN
4	354765.48	2311749.54	2622.17	CP1
5	355153.38	2312330.16	2810.57	CP2
6	356079.49	2312217.65	2853.99	CP3
7	356234.48	2311398.28	3024.19	CP4
8	355240.21	2311354.54	2889.10	CP5
9	357130.37	2311427.02	3048.64	CP6
10	358179.67	2312218.66	3265.38	CP7
11	357814.13	2311513.22	3103.76	CP8
12	358750.13	2312126.84	3332.68	CP9
13	357269.00	2310685.49	3230.94	CP10
14	354522.07	2313067.36	2740.06	CP11
15	352559.15	2311641.09	2494.99	CP12
16	354345.10	2310225.11	2745.20	CP13

NOTE:
 1. SURVEY CONTROL POINTS ARE PRESENTED IN WASHINGTON STATE PLANE NAD83/NAVD88 COORDINATES.



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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
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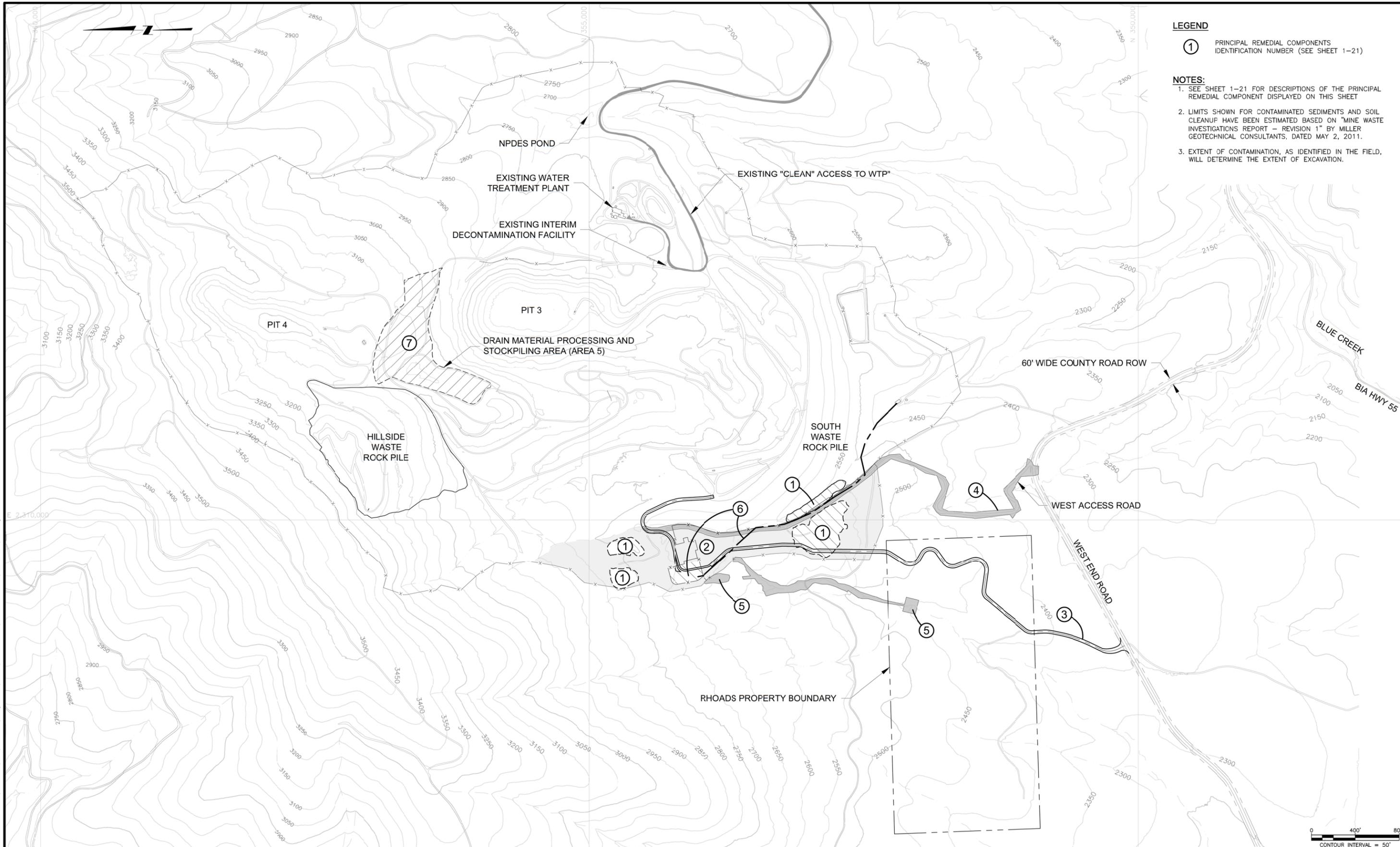
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVD88.
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DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SURVEY CONTROL MAP	

	SHEET	1-20	REVISION	3
	FILE NAME	1-20	DATE	JUNE 2015



LEGEND
 ① PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)

NOTES:
 1. SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
 2. LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
 3. EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.

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ISSUE NO.	DESCRIPTION	TECH	ENG	DATE
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DRAWING REFERENCE(S):

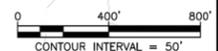
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, MDS 1995 AND PROVIDED BY DAWN MINING COMPANY, LOCAL COORDINATE SYSTEM USED IN USMMA MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.

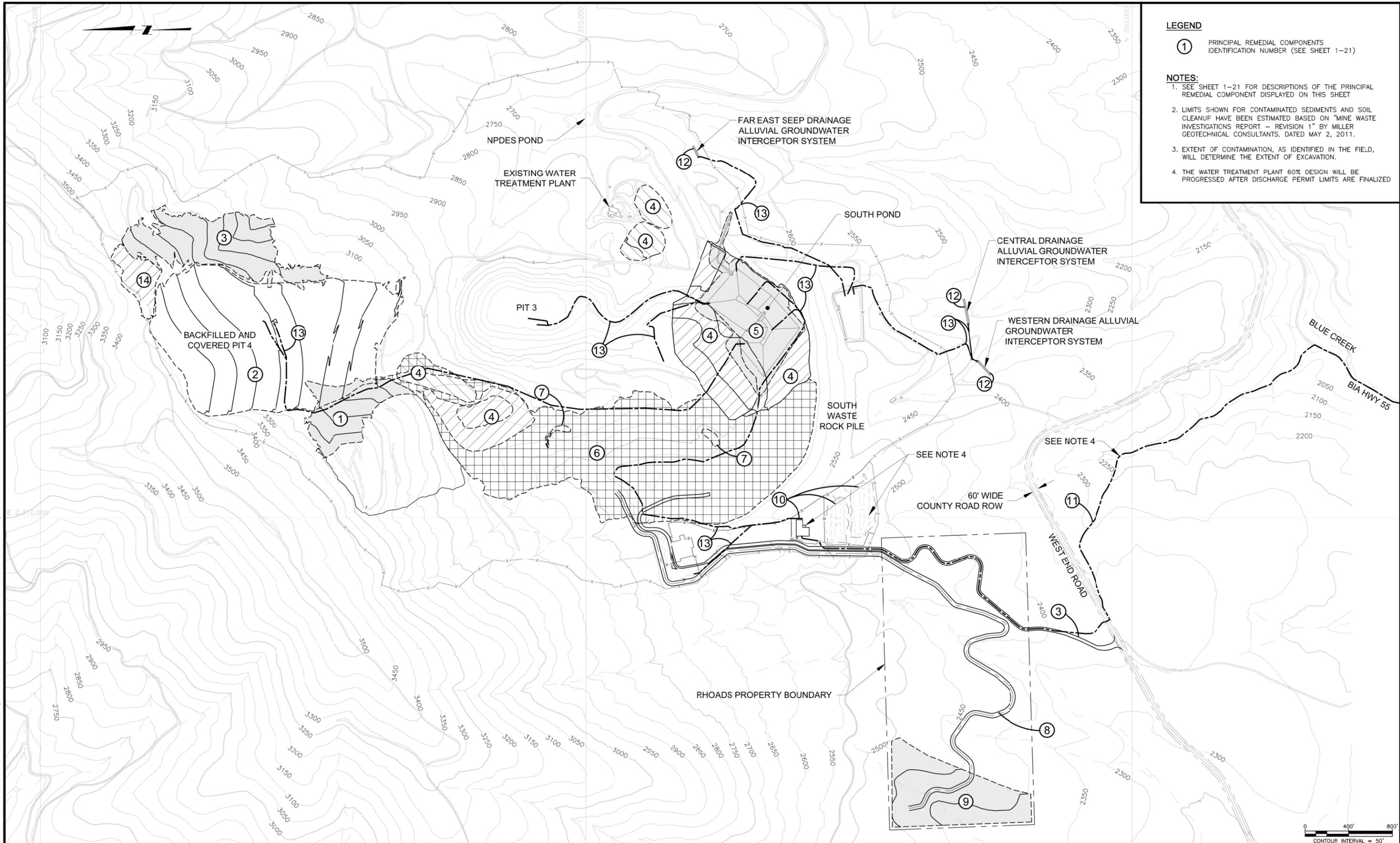
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS EARLY WORKS	

	SHEET	1-22	REVISION	3
	FILE NAME	1-22	DATE	JUNE 2015





LEGEND

① PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)

NOTES:

1. SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
2. LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
3. EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.
4. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED

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ISSUE	REV	DESCRIPTION	TECH	ENG	DATE
3		ISSUED FOR 100% DESIGN	KR	SM	06-15
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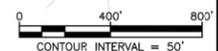
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL MDS, 1995 AND PROVIDED BY DAWN MINING COMPANY. LIDAR COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 1.

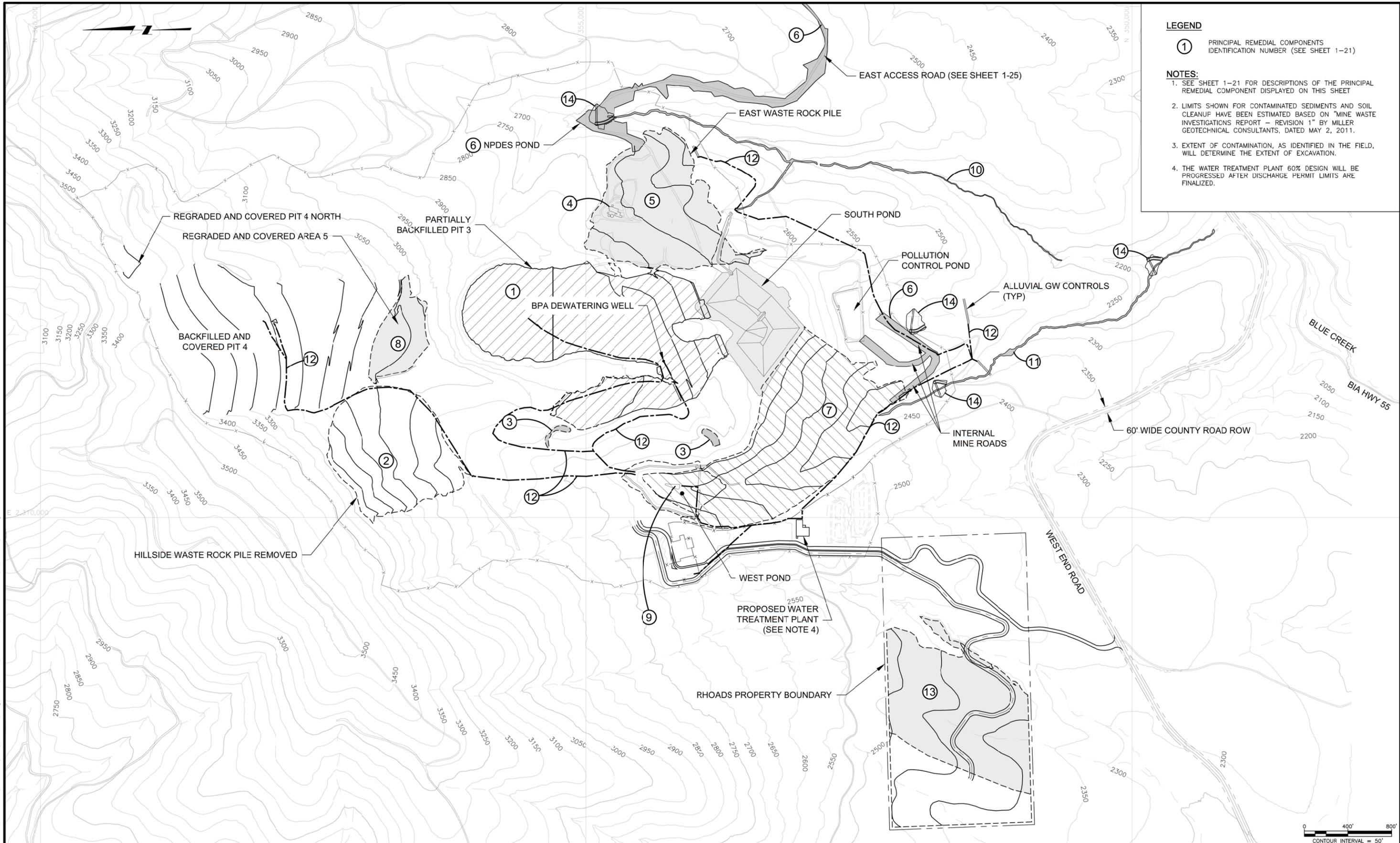
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS PHASE 1	

SHEET	1-23	REVISION	3
FILE NAME	1-23	DATE	JUNE 2015





LEGEND

① PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)

NOTES:

- SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
- LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
- EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.
- THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.

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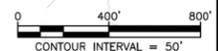
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
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- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15

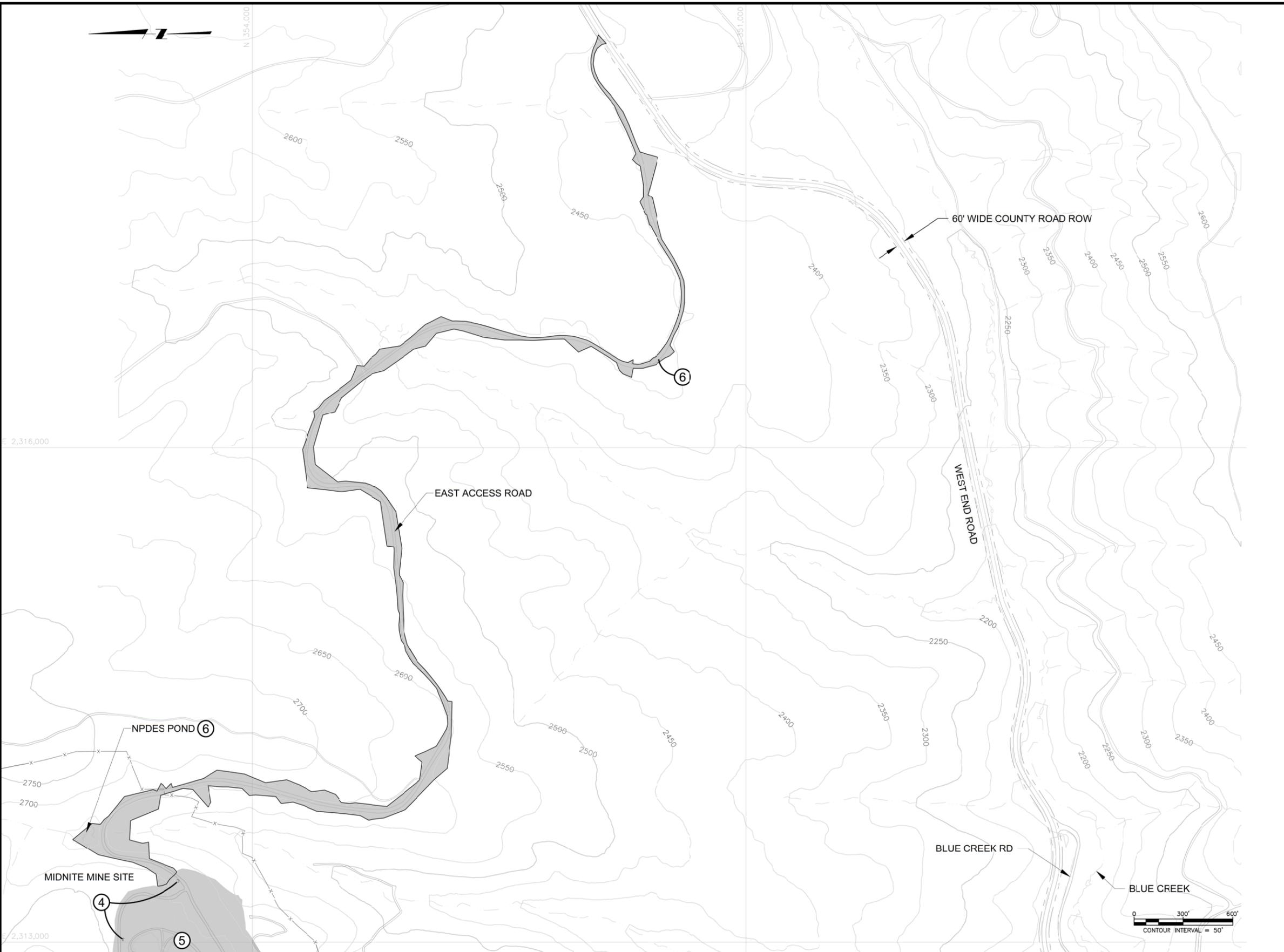


PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS PHASE 2 (1 OF 2)	

SHEET	1-24	REVISION	3
FILE NAME	1-24	DATE	JUNE 2015



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LEGEND

④ PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)

NOTES:

- SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
- LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
- EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.

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DRAWING REFERENCE(S):

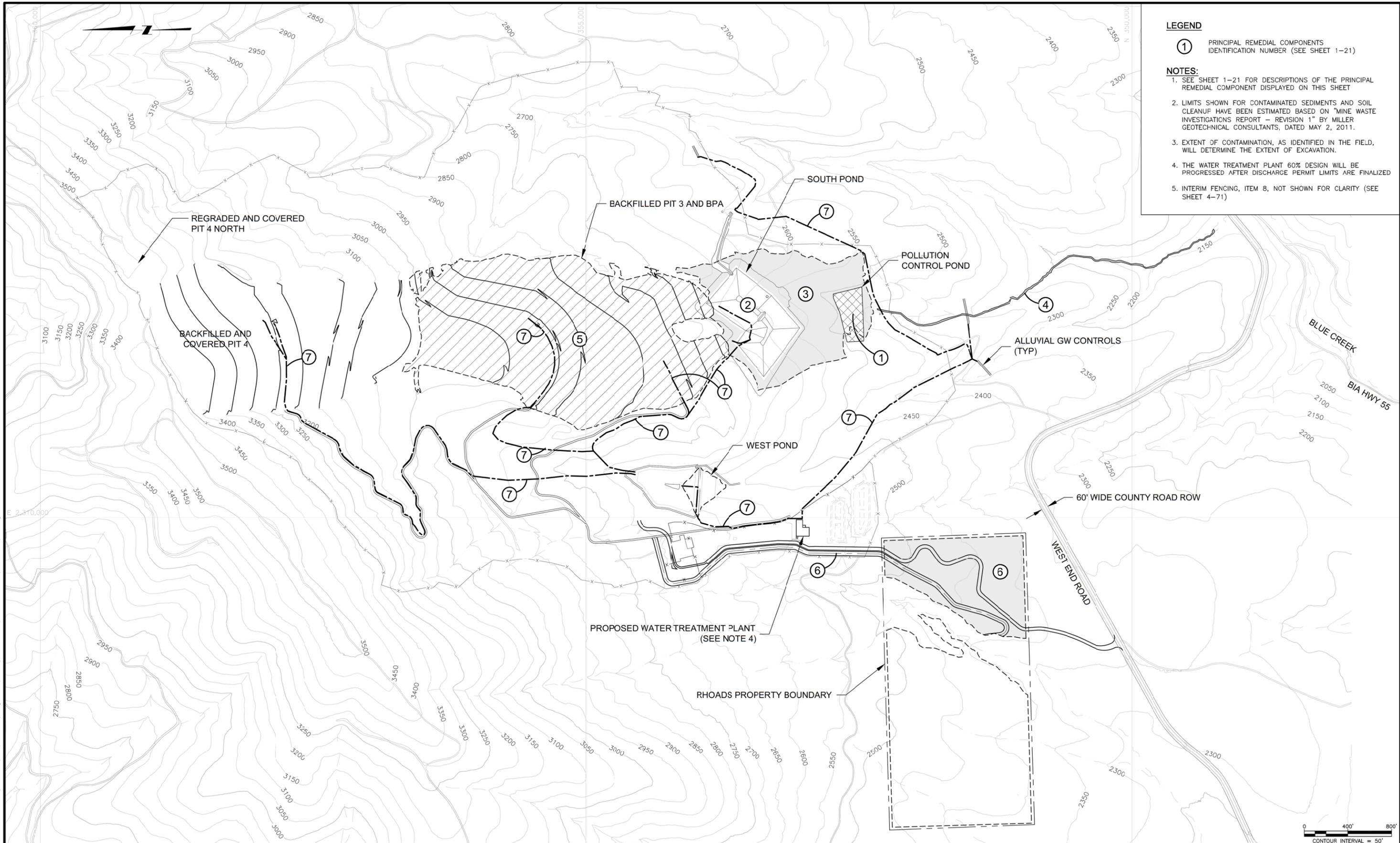
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL, 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC. ORIGINAL COORDINATE SYSTEM USED IN USNM MAPPING (NAD27/NOV29) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS8 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS PHASE 2 (2 OF 2)	

	SHEET	1-25	REVISION	3
	FILE NAME	1-25	DATE	JUNE 2015



- LEGEND**
- ① PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)
- NOTES:**
- SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
 - LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
 - EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.
 - THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED
 - INTERIM FENCING, ITEM 8, NOT SHOWN FOR CLARITY (SEE SHEET 4-71)

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

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DRAWING REFERENCE(S):

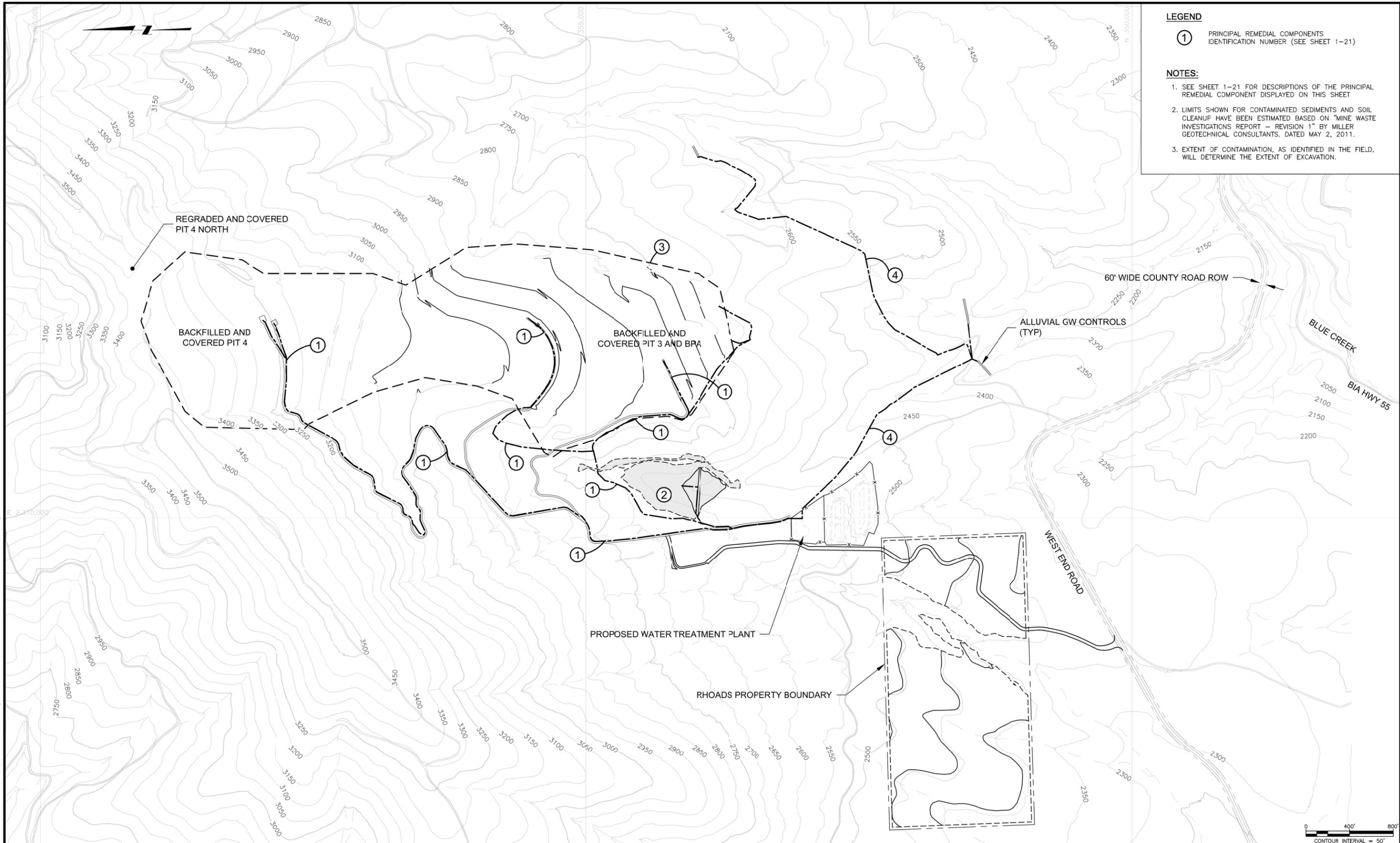
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL, 1995 AND PROVIDED BY DAWN MINING COMPANY. ORIGINAL COORDINATE SYSTEM USED IN USM MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 3.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS PHASE 3	

	SHEET	1-26	REVISION	3
	FILE NAME	1-26	DATE	JUNE 2015



LEGEND
 ① PRINCIPAL REMEDIAL COMPONENTS IDENTIFICATION NUMBER (SEE SHEET 1-21)

NOTES:
 1. SEE SHEET 1-21 FOR DESCRIPTIONS OF THE PRINCIPAL REMEDIAL COMPONENT DISPLAYED ON THIS SHEET
 2. LIMITS SHOWN FOR CONTAMINATED SEDIMENTS AND SOIL CLEANUP HAVE BEEN ESTIMATED BASED ON "MINE WASTE INVESTIGATIONS REPORT - REVISION 1" BY MILLER GEOTECHNICAL CONSULTANTS, DATED MAY 2, 2011.
 3. EXTENT OF CONTAMINATION, AS IDENTIFIED IN THE FIELD, WILL DETERMINE THE EXTENT OF EXCAVATION.

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ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	07-14
1	ISSUED FOR 60% DESIGN	DM	SM	12-13

DISCLAIMER:
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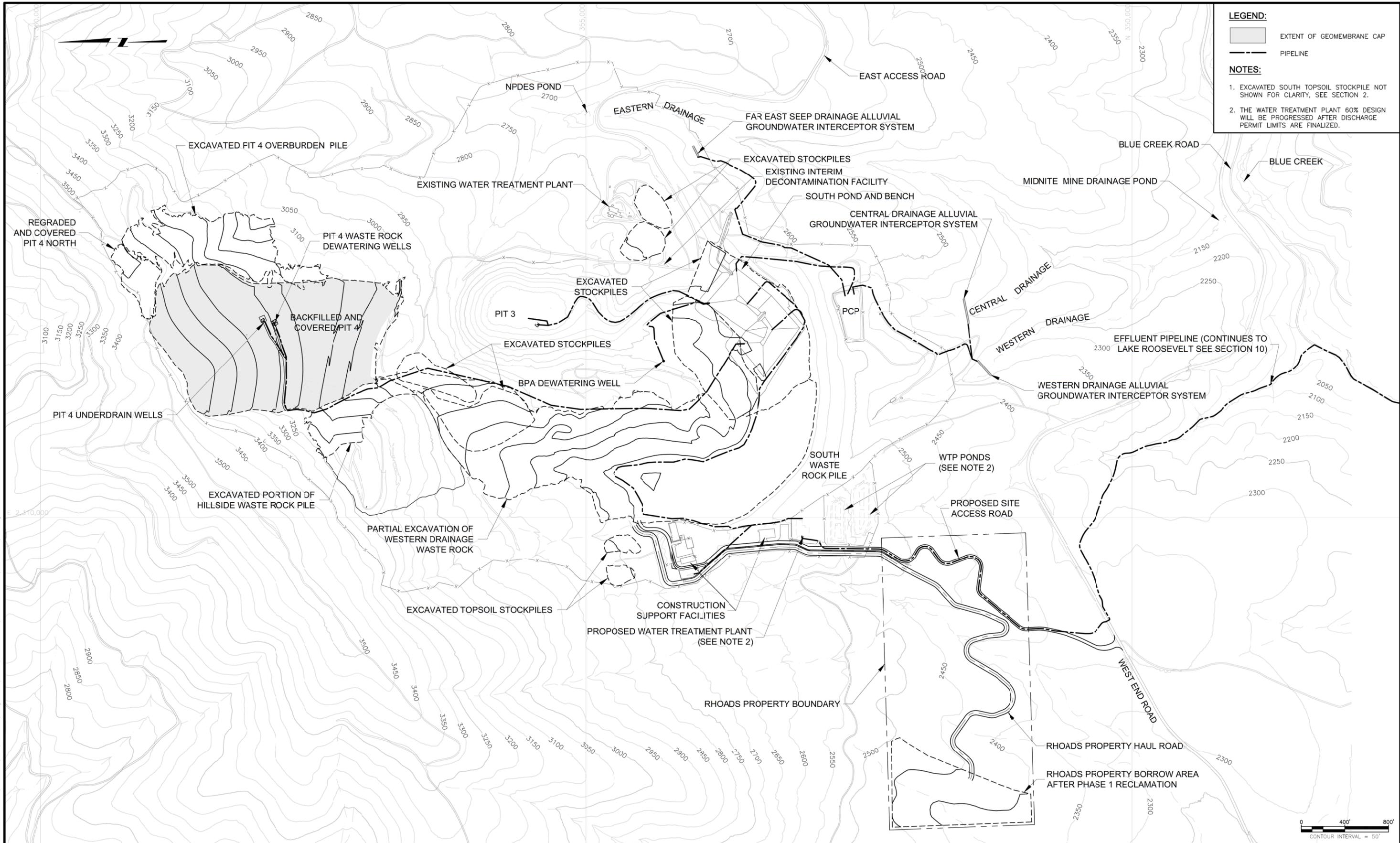
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
 * PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, MDS, 1995 AND PROVIDED BY DAWN MINING COMPANY, ILLINOIS COORDINATE SYSTEM USED IN USM MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88 COORDINATES.
 * CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF FINAL REMEDIATION.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	PRINCIPAL REMEDIAL COMPONENTS FINAL REMEDIATION	

	SHEET	1-27	REVISION	3
	FILE NAME	1-27	DATE	JUNE 2015



LEGEND:

■ EXTENT OF GEOMEMBRANE CAP

--- PIPELINE

NOTES:

1. EXCAVATED SOUTH TOPSOIL STOCKPILE NOT SHOWN FOR CLARITY, SEE SECTION 2.

2. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.

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ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	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):

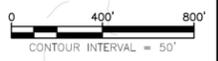
- EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL, 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
- PREMINE TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMMA, MDS, 1995 AND PROVIDED BY DAWN MINING COMPANY, LLC ORIGINAL COORDINATE SYSTEM USED IN USMMA MAPPING (NAD83/NAVDS88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVDS88.
- CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 1.

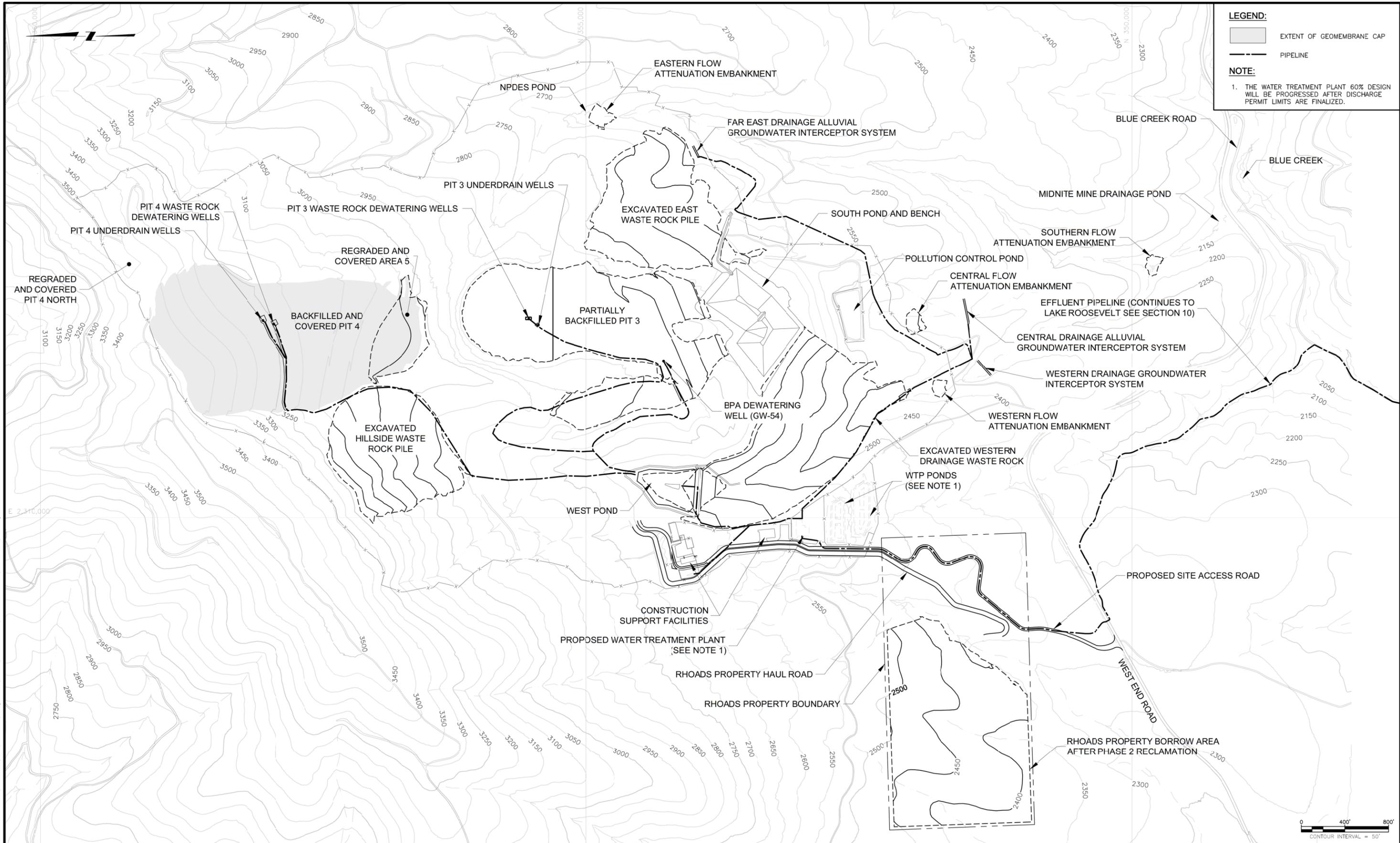
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE TOPOGRAPHY - END OF PHASE 1	

SHEET	1-28	REVISION	3
	FILE NAME		DATE
	1-28		JUNE 2015





LEGEND:
 [Shaded Area] EXTENT OF GEOMEMBRANE CAP
 [Dashed Line] PIPELINE

NOTE:
 1. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.

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REV	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	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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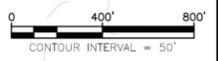
DRAWING REFERENCE(S):
 * EXISTING TOPOGRAPHY BASED UPON LIDAR MAPPING BY SPATIAL INTEL 2010, WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88.
 * PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY ORIGINAL COORDINATE SYSTEM BY DAWN MINING COMPANY, LLC (MAY 1995 AND 1996) AND USED IN USDM MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.
 * CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 2.

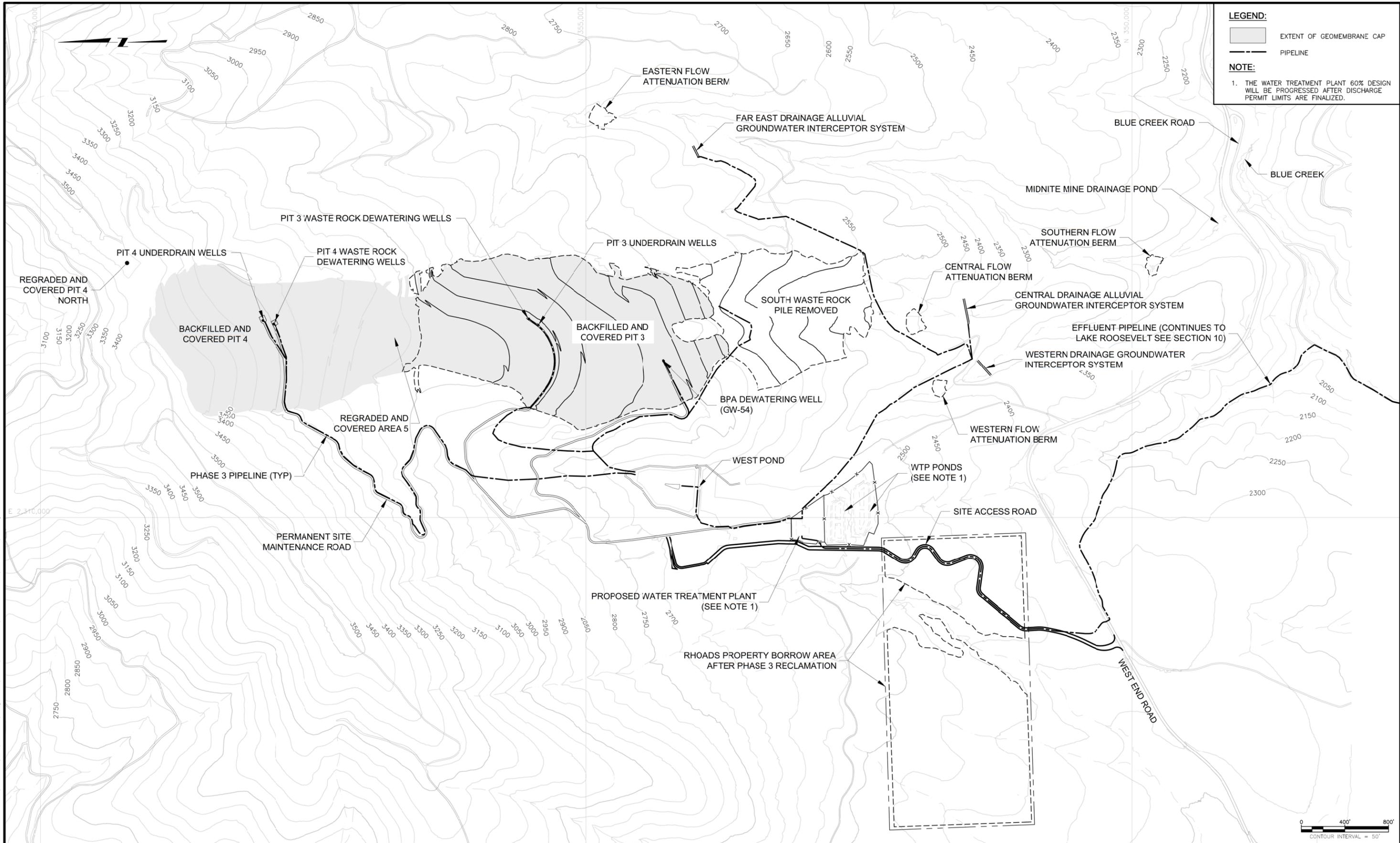
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE TOPOGRAPHY - END OF PHASE 2	

	SHEET	1-29	REVISION	3
	FILE NAME	1-29	DATE	JUNE 2015





LEGEND:
 [Shaded Area] EXTENT OF GEOMEMBRANE CAP
 [Dashed Line] PIPELINE

NOTE:
 1. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.

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ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	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/NAV088.
 * PRELIMINARY TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USMA, INC. 1995 AND PROVIDED BY DAWN MINING COMPANY, (UZZ7/NOV029) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAV088 COORDINATES.
 * CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF PHASE 3.

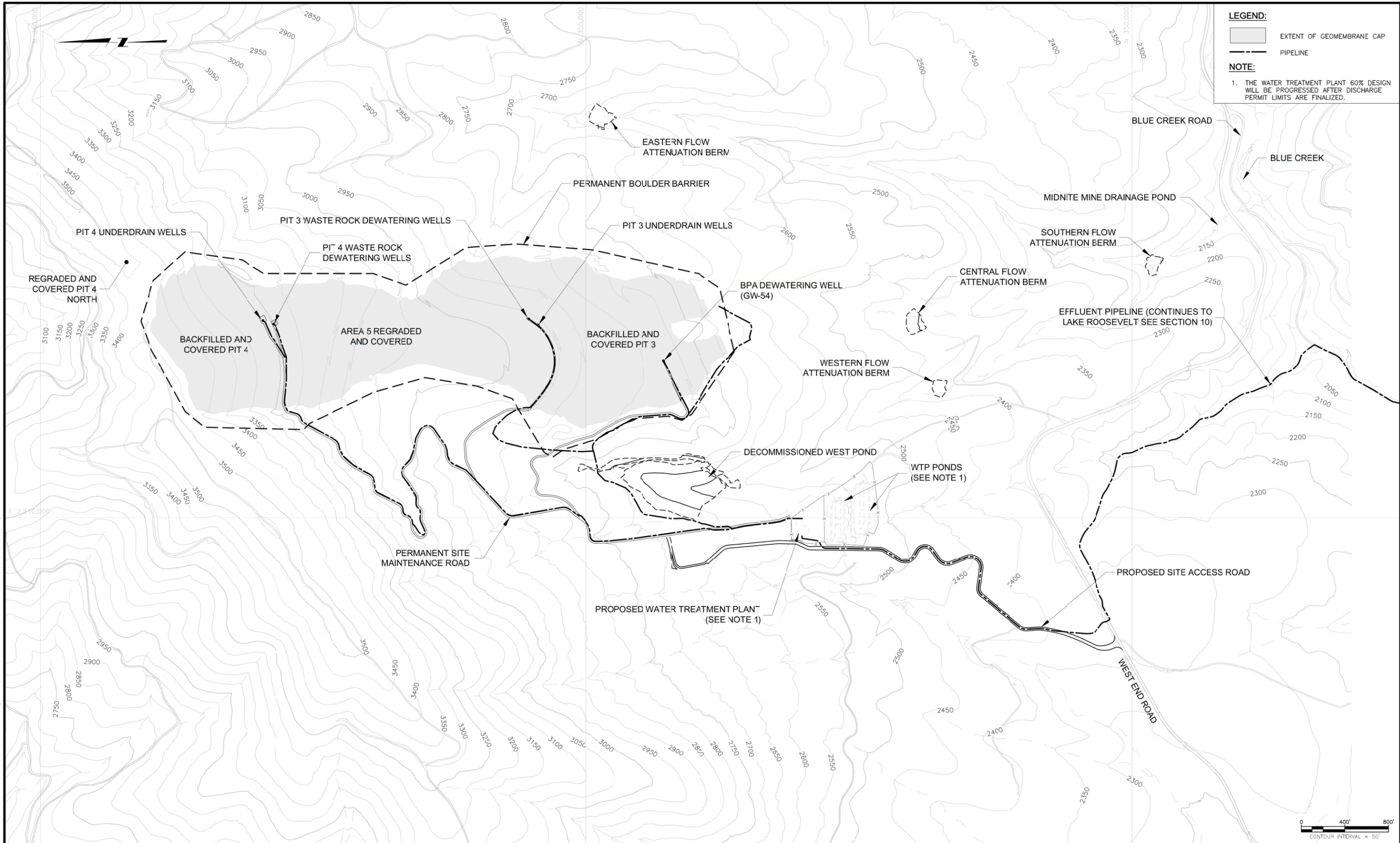
DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE TOPOGRAPHY - END OF PHASE 3	

SHEET	1-30	REVISION	3
FILE NAME	1-30	DATE	JUNE 2015





LEGEND:
 [Shaded Area] EXTENT OF GEOMEMBRANE CAP
 [Dashed Line] PIPELINE

NOTE:
 1. THE WATER TREATMENT PLANT 60% DESIGN WILL BE PROGRESSED AFTER DISCHARGE PERMIT LIMITS ARE FINALIZED.

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ISSUE	DESCRIPTION	TECH	ENG	DATE
3	ISSUED FOR 100% DESIGN	KR	SM	06-15
2	ISSUED FOR 90% DESIGN	CE	SM	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/NAVOD88.
 * PREVIOUS TOPOGRAPHY AND PIT EXCAVATION TOPOGRAPHY BASED UPON INFORMATION PREPARED BY USDM, 1995 AND PROVIDED BY BARN MINING COMPANY, LLC ORIGINAL COORDINATE SYSTEM USED IN USDM MAPPING (NAD83/NAVOD88) HAS BEEN CONVERTED TO WASHINGTON STATE PLANE-NORTH, NAD83/NAVOD88 COORDINATES.
 * CONTOURS SHOWN REPRESENT CONDITIONS AT THE END OF FINAL REMEDIATION.

DESIGNED BY	S MCMANUS	06-15
DRAWN BY	K REED	06-15
CHECKED BY	C STRACHAN	06-15
APPROVED BY	C STRACHAN	06-15
PROJECT MANAGER	V DRAIN	06-15



PROJECT LOCATION	WELLPINIT, WASHINGTON	
PROJECT	MIDNITE MINE	
TITLE	SITE TOPOGRAPHY - END OF REMEDIAL ACTION	

	SHEET	1-31	REVISION	3
	FILE NAME	1-31	DATE	JUNE 2015

