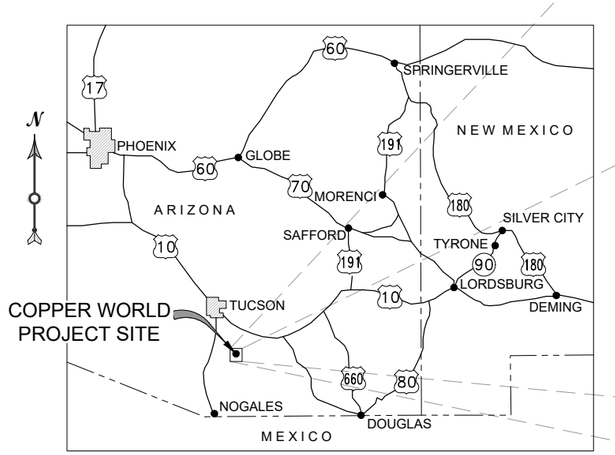
DRAFT DRAWINGS FOR

ROSEMONT COPPER WORLD PROJECT

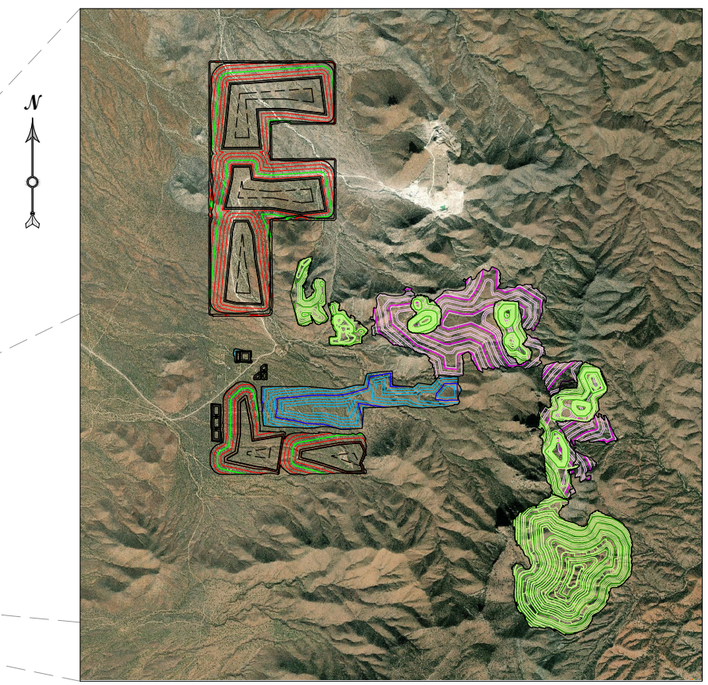
MARCH 2022

HUDBAY MINERALS INC.
ROSEMONT COPPER COMANY
PIMA COUNTY, ARIZONA



LOCATION MAP

0 1' 2'
SCALE IN MILES



VICINITY MAP
NOT TO SCALE

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wood.

Project: 1720214024

WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS
4600 E WASHINGTON ST, SUITE 600
PHOENIX, ARIZONA 85034
PHONE: 602-733-6000

HUDBAY
ROSEMONT COPPER COMPANY

ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
GENERAL
TITLE SHEET AND LOCATION MAP

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
1	
REVISION	DATE
A	03/30/22

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RCC-CW009994

ABBREVIATIONS

'	FEET OR MINUTES
"	INCHES OR SECONDS
# OR NO.	NUMBER
%	PERCENTAGE
@	AT
±	PLUS OR MINUS
<	ANGLE
° OR DEG	DEGREE
ABC	AGGREGATE BASE COURSE
ADDL	ADDITIONAL
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
ARVV	AIR RELEASE VACUUM VALVE
BE	BURIED ELECTRICAL
BFV	BUTTERFLY VALVE
BLM	BUREAU OF LAND MANAGEMENT
BS	BOOSTER STATION
CL	CENTERLINE
CD	CHECK DAM
CEM	CEMENT
CFS	CUBIC FEET PER SECOND
CJ	CONSTRUCTION JOINT
CKD	CHECKED
CKV, CV	CHECK VALVE
CLR	CLEAR
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CP	CONTROL POINT
CPT	CORRUGATED POLYETHYLENE TUBING
CRJ	CONTRACTION JOINT
CTJ	CONTROL JOINT
CTR	CENTER(S)
CY	CUBIC YARDS
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DN	DOWN
DR	DIMENSION RATIO
DWG	DRAWING
E	EAST OR EASTING
EA	EACH
EC	EACH CORNER
ECC	ECCENTRIC
EF	EACH FACE
EG	EXISTING GROUND
EJ	EXPANSION JOINT
EL	ELEVATION, ELBOW
ELEC	ELECTRIC OR ELECTRICAL
ENGR	ENGINEER
EP	ALIGNMENT END
EQ	EQUAL
EQL SP	EQUALLY SPACED
ER	EACH ROW
ES	EACH SIDE
EW	EACH WAY

EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FCA	FLANGED COUPLING ADAPTOR
FCJ	FLOOR CONSTRUCTION JOINT
FD	FLOOR DRAIN
FDN	FOUNDATION(S)
FES	PIPED FLARED END SECTION
FIN	FINISH
FLG	FLANGE
FLR	FLOOR
FOF	FACE OF FLANGE
FS	FAR SIDE
FT	FOOT, FEET
SF	SQUARE FEET
FTG	FOOTING
G, GEN	GENERAL
GA	GAGE OR GUAGE
GAL	GALLON
GALV	GALVANIZED
GCL	GEOSYNTHETIC CLAY LINER
GFI	GROUND FAULT INTERRUPTOR
GND	GROUND
GPM	GALLONS PER MINUTE
GR	GRADE
GV	GATE VALVE
H, HORZ	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
HT	HEIGHT
HWL	HIGH WATER LEVEL
HYD	HYDRAULIC
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IN	INCH
INV	INVERT
JCT	JUNCTION
JT	JOINT
LBS, LB	POUNDS, POUND
LCRS	LEAKAGE COLLECTION RECOVERY SYSTEM
LF	LINEAR FEET
LG	LONG, LENGTH
LLDPE	LINEAR LOW DENSITY POLYETHYLENE
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LTG	LIGHTING
MAX	MAXIMUM
MECH	MECHANICAL
MFL	MINE FOR LEACH
MH	MANHOLE
MIL	1/1000 INCH
MIN	MINIMUM
MISC	MISCELLANEOUS
MSL	MEAN SEA LEVEL
MTL	METAL
MW	MONITORING WELL
N	NORTH, NORTHING
NF	NEAR FACE

NO.	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OCJ	OPTIONAL CONSTRUCTION JOINT
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OFP	ORIFICE PLATE
OHE	OVERHEAD ELECTRIC
OW	OBSERVATION WELL, OUTLET WORKS
OZ	OUNCE
P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
PC	POINT OF CURVATURE
PFD	PROCESS FLOW DIAGRAM
PI	POINT OF INTERSECTION, PRESSURE INDICATOR
PLS	PREGNANT LEACH SOLUTION
PLSP	PREGNANT LEACH SOLUTION POND
PR	POINT OF RADIUS
PROP	PROPOSED
PS	PUMP STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVI	POINT OF VERTICAL INFLECTION
PWP	PROCESS WATER POND
PZ	PIEZOMETER
R	RISER OR RADIUS
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RECPT	RECEPTACLE
RED	REDUCER
REF	REFERENCE
REINF	REINFORCEMENT, REINFORCING
REQD	REQUIRED
RFCA	RESTRAINED FLANGE COUPLING ADAPTOR
ROM	RUN OF MINE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RPM	REVOLUTIONS PER MINUTE
RT	RIGHT
RW	RAW WATER LINE
S	SOUTH
SCI	SPIRAL CURVE INTERSECT
SCH	SCHEDULE
SDR	STANDARD DIMENSION RATIO
SE	SOUTHEAST
SECT	SECTION
SG	SLIDE GATE
SHT	SHEET
SIM	SIMILAR
SOG	SLAB ON GRADE

SPC	SPACE OR SPACES
SPD	SINGLE POINT DISCHARGE
SPEC	SPECIFIED, SPECIFICATION
SPI	REVERSE SPIRAL INTERSECT
SQ	SQUARE
SS	STAINLESS STEEL
ST	SPIRAL-TANGENT INTERSECT
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SOUTHWEST
TAN	TANGENT
TEMP	TEMPORARY
TF	TOP FACE
TH	TEST HOLE
TL	TOP LAYER
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOP	TOP OF PIPE
TOS	TOP OF SLAB, TOP OF STEEL
TOW	TOP OF WALL
TP	TEST PIT
TR	TOP ROW
TS	TREATMENT SYSTEM, TANGENT-SPIRAL INTERSECT
TURB	TURBIDITY
TW	TREATED WATER
TYP	TYPICAL
UE	UNDERGROUND ELECTRICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VERTICAL OR VOLT
VC	VERTICAL CURVE
VIF	VERIFY IN FIELD
W	WEST
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WL	WATER LINE
WP	WATERPROOF(ING)
WS	WATERSTOP OR WATER SURFACE
WSE	WATER SURFACE ELEVATION
WSP	WELDED STEEL PIPE
WT	WALL THICKNESS
WTP	WATER TREATMENT PLANT
XFMR	TRANSFORMER

SYMBOLS

- EXISTING MONITORING WELL
- PROPOSED MONITORING WELL
- SAMPLE
- BORE HOLES
- TEST PITS
- BORROW SOURCE
- OPEN PIT MINE (USGS 2021)
- PROSPECT PIT (USGS 2021)
- ADIT(USGS 2021)
- MINE SHAFT (USGS 2021)
- UNDERLINER BORROW AREAS
- WASTE ROCK FILL
- PUF CLOSURE (EXISTING)
- REINFORCED CONCRETE
- NATIVE GROUND
- GENERAL FILL
- LEFT IN PLACE/EXISTING VALLEY FILL MATERIAL
- EMBANKMENT FILL
- STRUCTURAL FILL
- OVERLINER
- UNDERLINER
- GENERAL ROM
- SELECT ROM
- LINED SURFACE
- FREE DRAINING GRAVEL
- PHASE HATCH
- ANCHOR TRENCH FILL
- RIPRAP
- ENGINEERED DAM FILL
- ROCKFILL TRANSITION (UPSTREAM)
- CLAY CORE
- FINE FILTER / DRAIN
- COARSE FILTER / DRAIN
- BENTONITE SLURRY/PELLETS
- CYCLONE SANDS
- TAILINGS SLURRY

LEGEND

- 750 — EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- PROPERTY BOUNDARY
- 3:1 — SLOPE INDICATOR
- FLOW DIRECTION
- 1 % — GRADE INDICATOR
- ABOVE-GROUND HDPE PIPELINE
- BELOW-GROUND HDPE PIPELINE
- UNDERDRAIN PIPE
- EXISTING GRADE
- TOE OF STOCKPILE
- GRADE BREAK FINISHED GRADE
- MATCHLINE
- WATER LEVEL
- LINED CHANNEL CENTERLINE
- E — OVERHEAD ELECTRICAL
- JERSEY BARRIER (LINER)
- JERSEY BARRIER (EMBANKMENT)
- GEOTEXTILE
- GEONET
- LINER
- GCL
- W — WATER LINE
- FENCE LINE
- WATERSHED/STAGE BOUNDARY
- ? — ? — BEDROCK SURFACE UNKNOWN
- EMBEDMENT STRIP
- PERIMETER DRAINAGE DITCH
- PIMA COUNTY FLOODPLAIN

NOTES:

1. CONTACT THE ENGINEER FOR ABBREVIATIONS NOT LISTED.
2. THIS IS A STANDARD ABBREVIATION/LEGEND SHEET, THEREFORE, SOME SYMBOLS OR ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS.
3. EXISTING GROUND TOPOGRAPHY IS BASED ON CONTOUR DATA PROVIDED BY HUDBAY ON JUNE 2021.
4. HORIZONTAL CONTROL IS BASED ON NAD83 UTM ZONE 12.
5. VERTICAL CONTROL IS BASED ON NAVD88 GEIOD03.
6. COORDINATE UNITS ARE IN INTERNATIONAL FEET.

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HUDBAY
ROSEMONT COPPER COMPANY

ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
GENERAL
ABBREVIATIONS, LEGEND AND SYMBOLS

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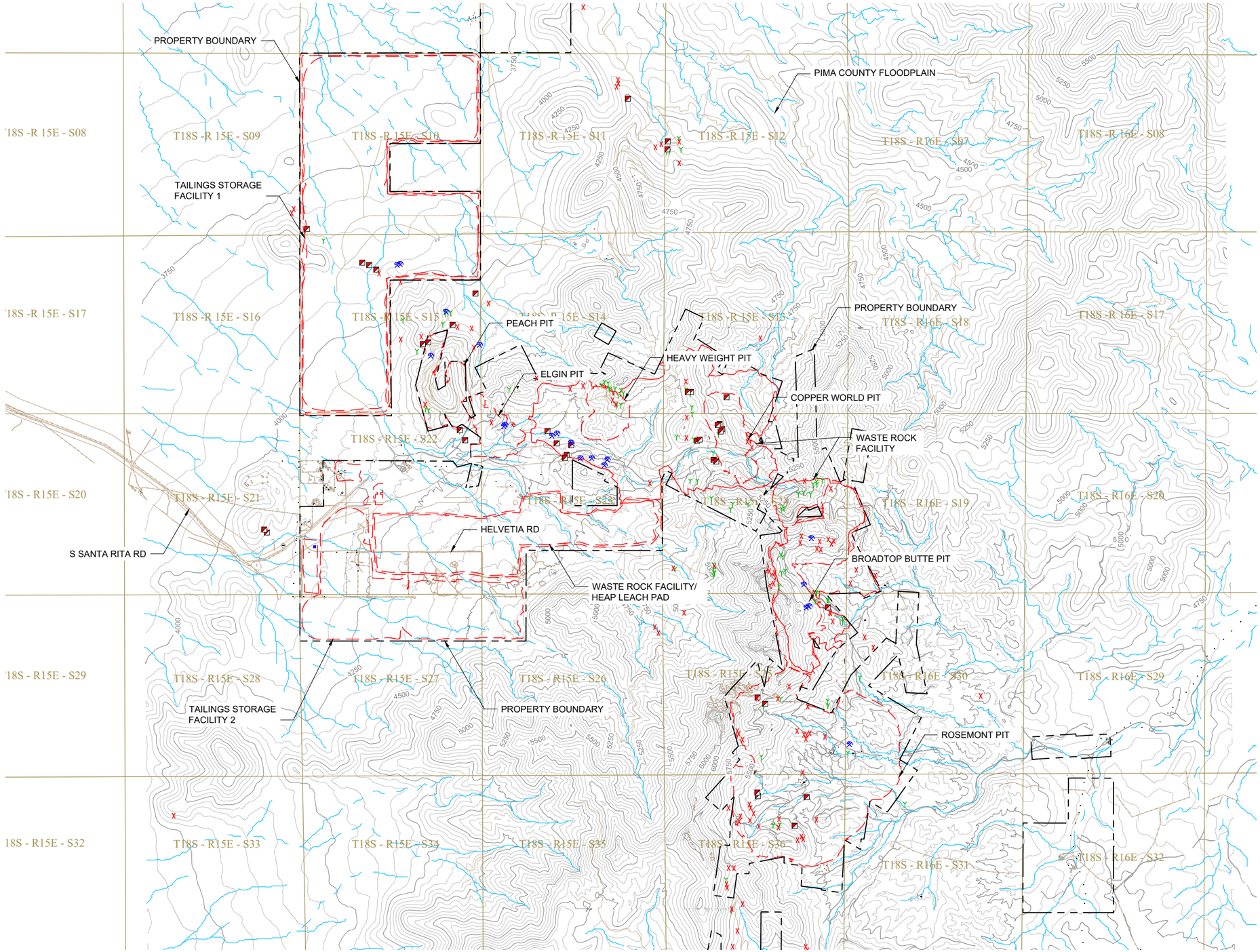
DRAWING INDEX



N

0 1500' 3000'

NOTE:

1. PROPOSED FACILITY FOOTPRINTS SHOWN FOR REFERENCE.

LEGEND:

- OPEN PIT MINE (USGS 2021)
- PROSPECT PIT (USGS 2021)
- ADIT(USGS 2021)
- MINE SHAFT (USGS 2021)

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ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
GENERAL
EXISTING CONDITIONS AND UTILITIES PLAN

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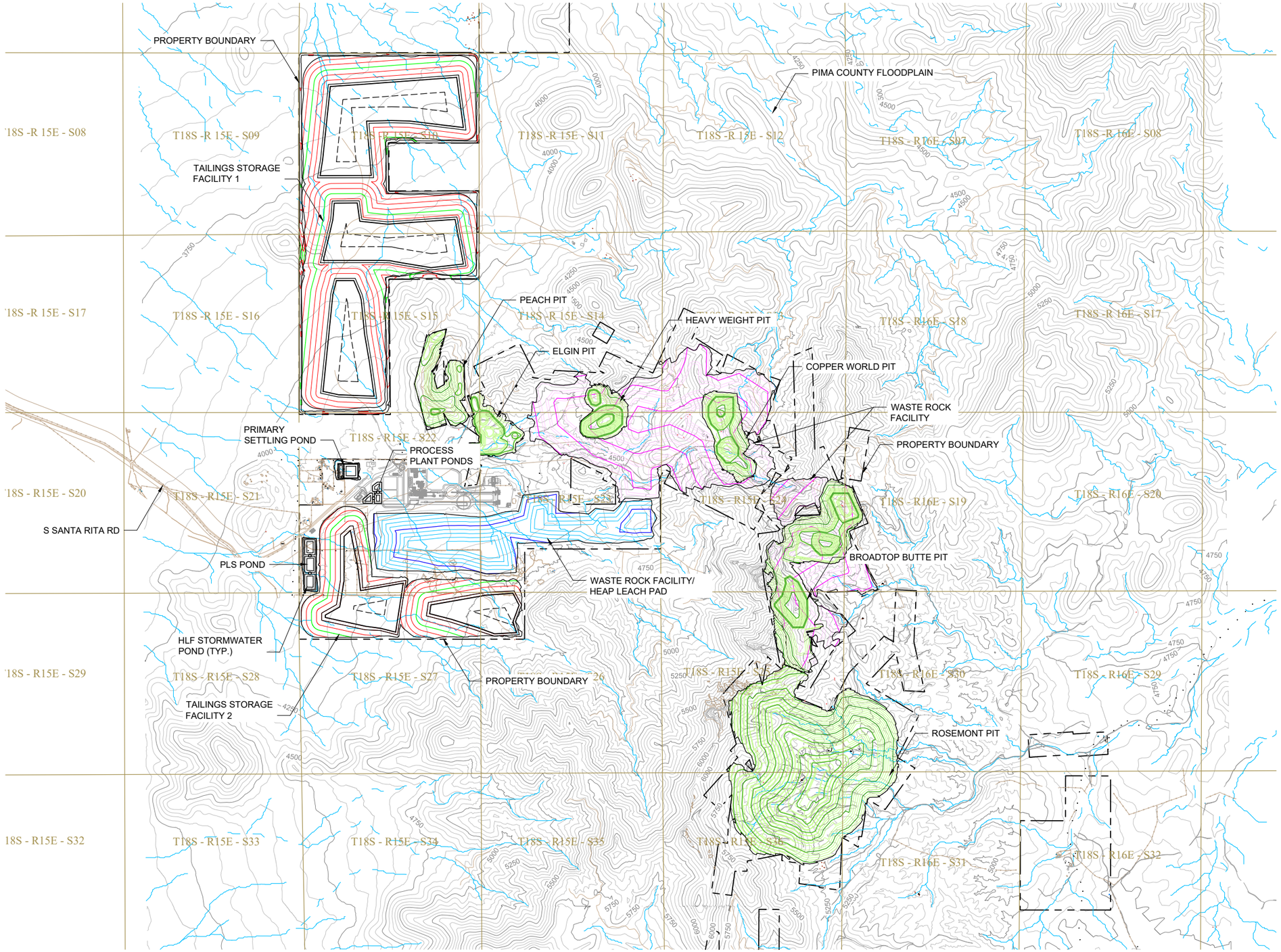

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ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
GENERAL
OVERALL PROJECT SITE PLAN

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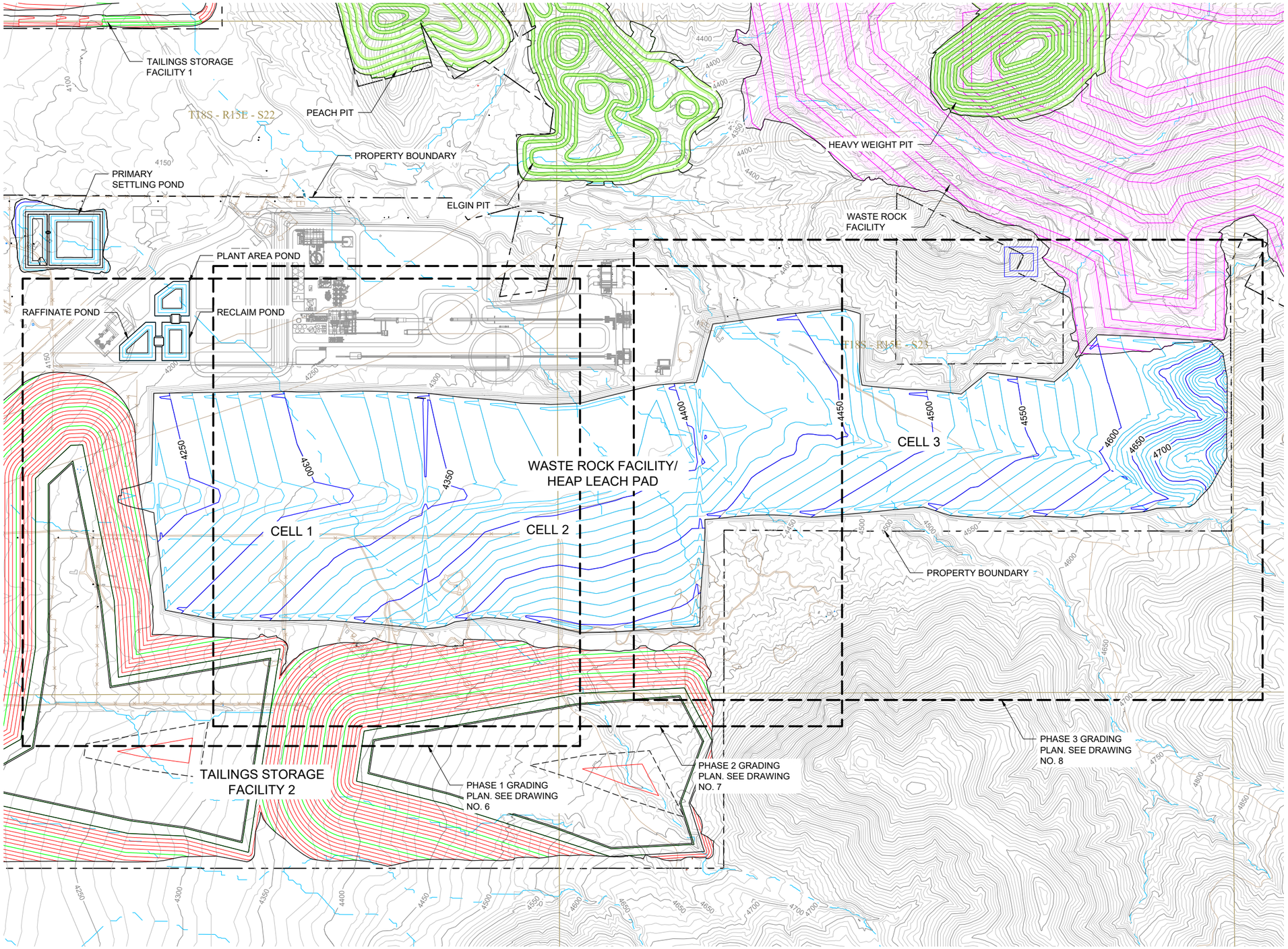

N

0 400' 800'

NOTE:

1. PITS AND WASTE ROCK FACILITY SHOWN FOR REFERENCE ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

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wood.

Project: 1720214024

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HUDBAY
ROSEMONT COPPER COMPANY

ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
GENERAL
WRF/HLP GRADING
PLAN

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wood.

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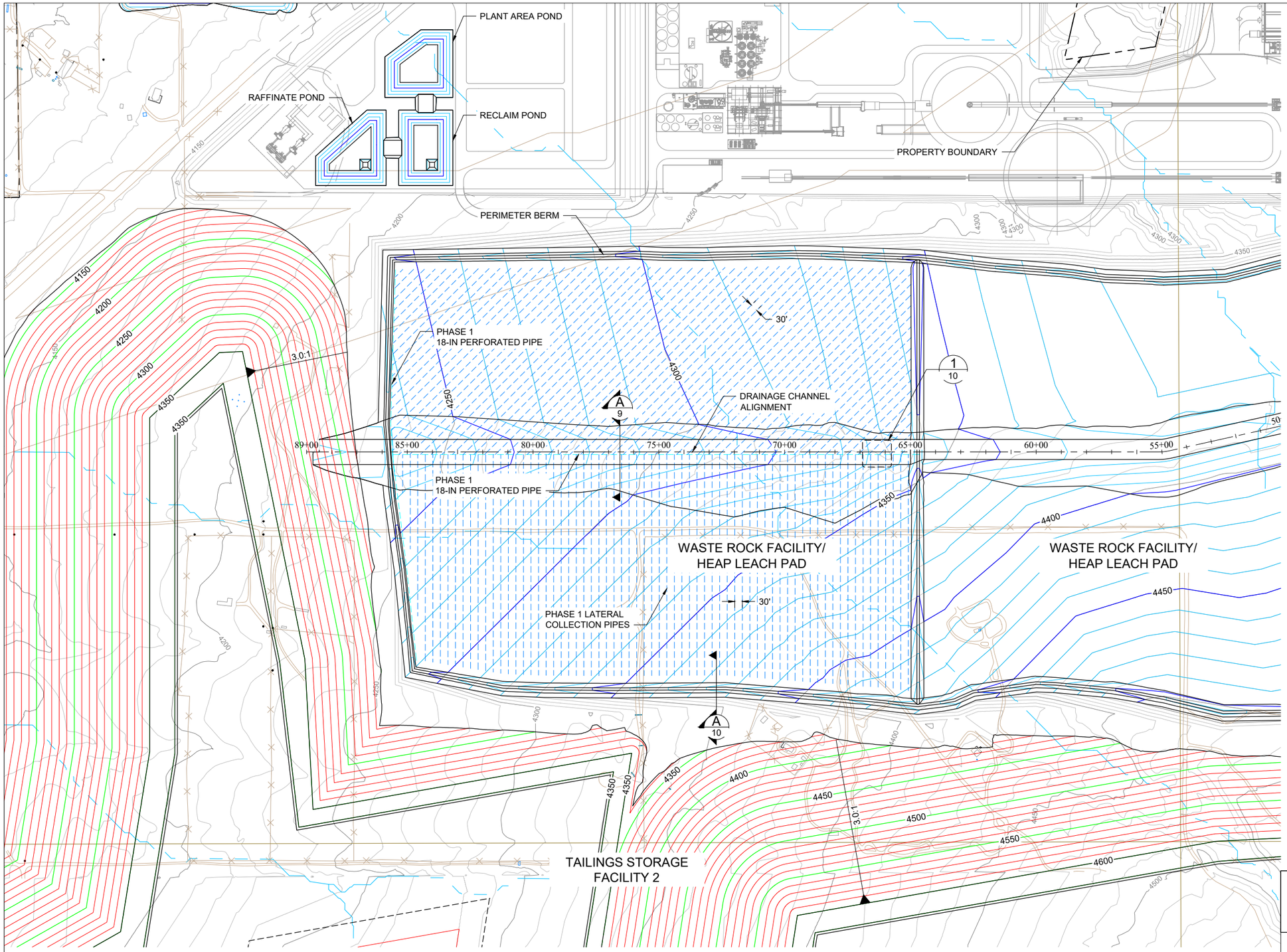

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ROSEMONT COPPER WORLD PROJECT

HUDBAY
ROSEMONT COPPER COMPANY

PRE-FEASIBILITY STUDY
CIVIL
WRF/HLP PHASE 1
GRADING PLAN

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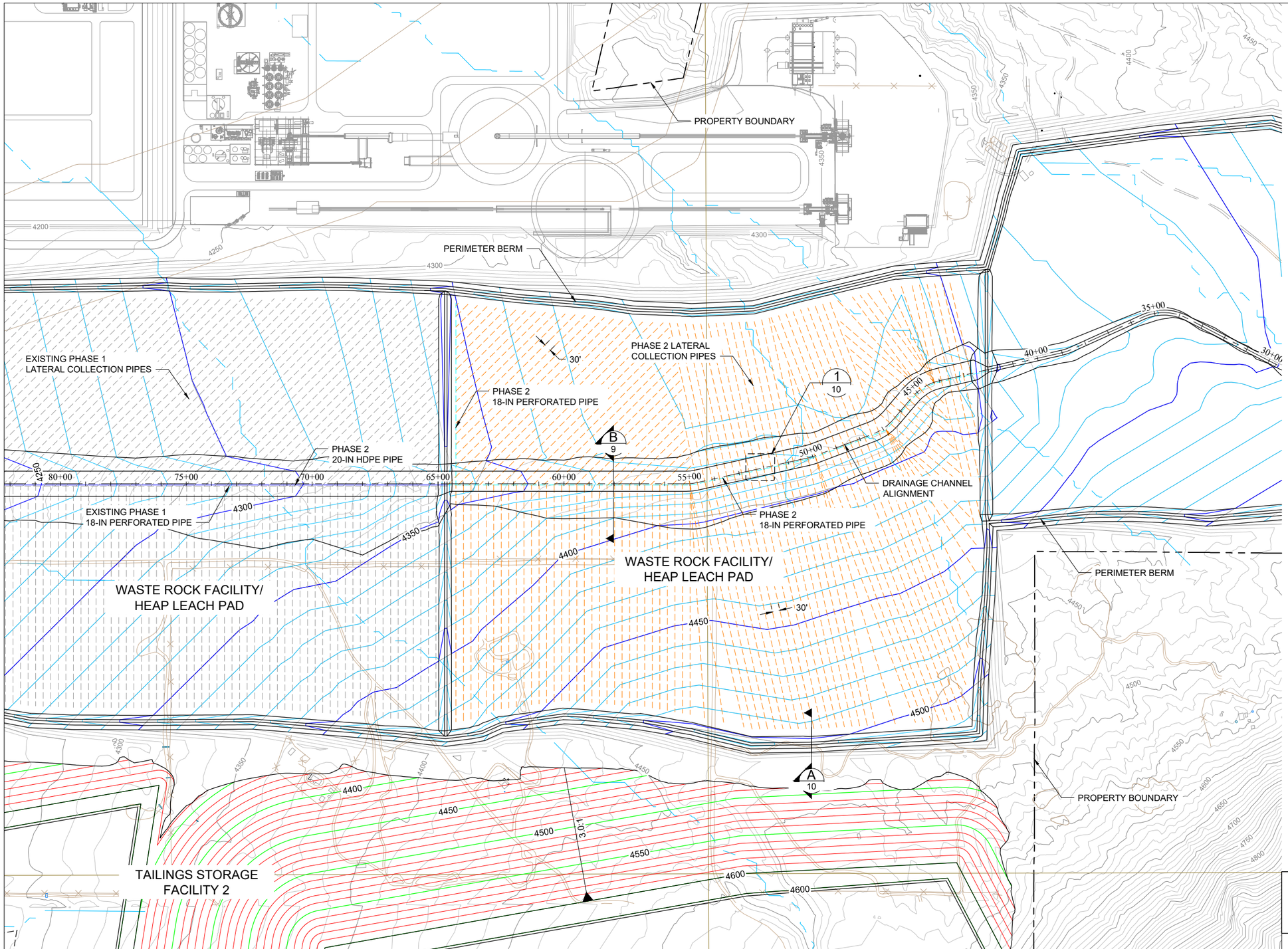

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COMPANY

ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
CIVIL
WRF/HLP PHASE 2
GRADING PLAN

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wood

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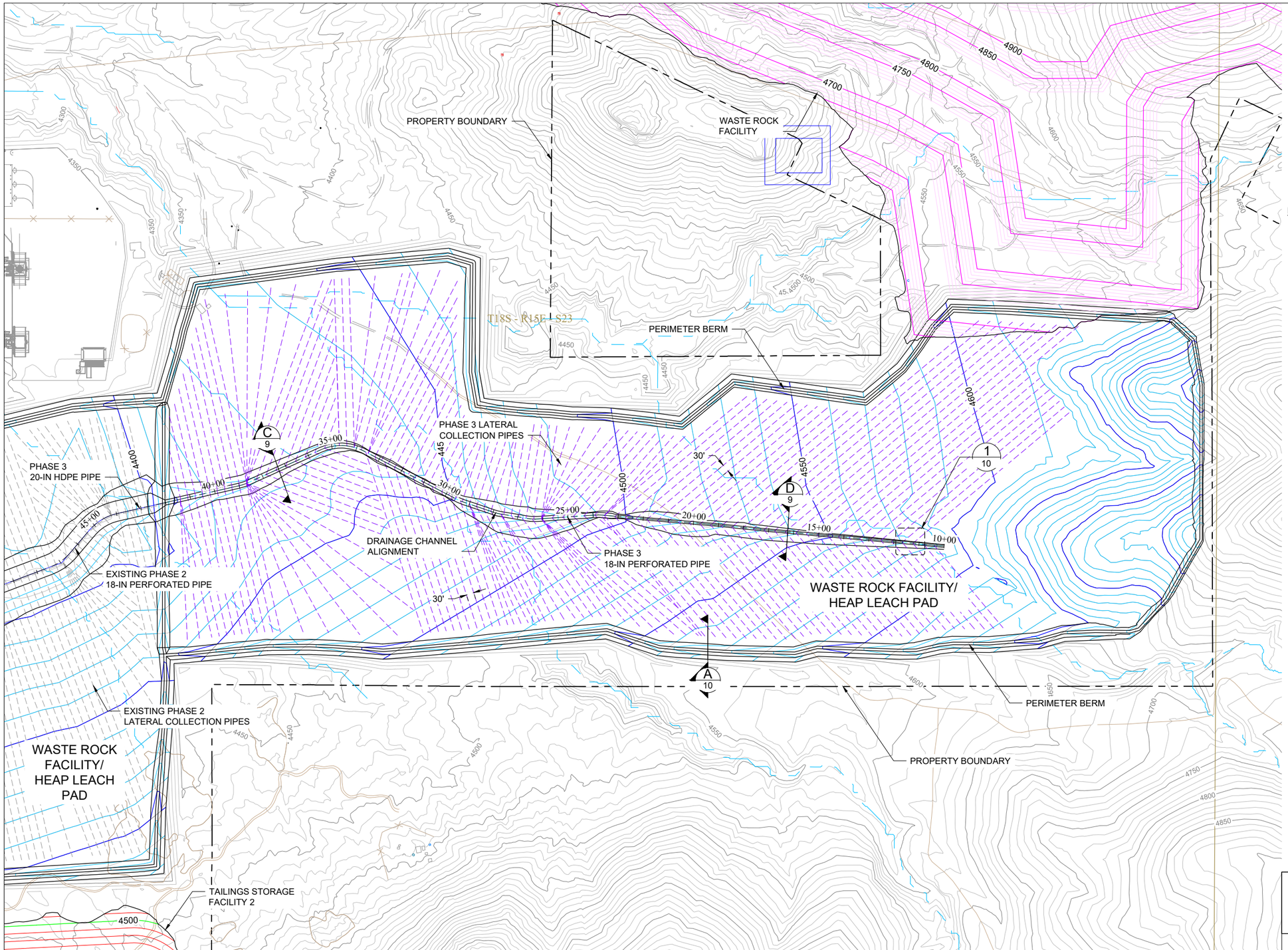

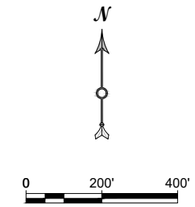

NOTE:

1. PITS AND WASTE ROCK FACILITY SHOWN FOR REFERENCE ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

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ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
CIVIL
WRF/HLP PHASE 3
GRADING PLAN

HUDBAY
ROSEMONT COPPER COMPANY

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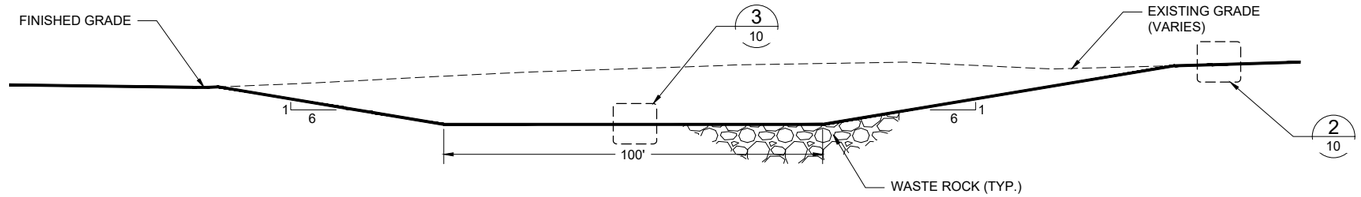
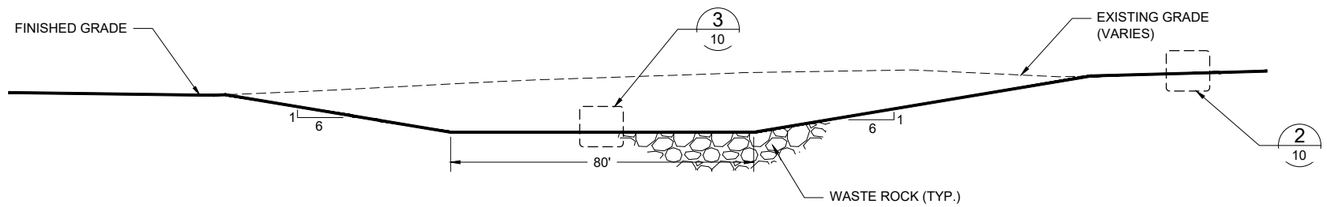


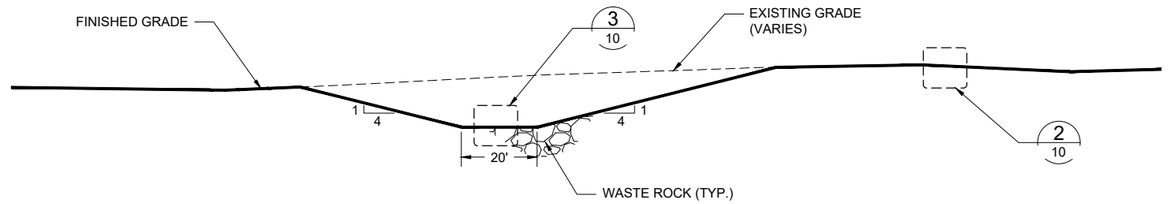
PHASE 1 CHANNEL STA 65+00 TO STA 88+50 (A / 6)
SCALE 1"=20'

0 20' 40'



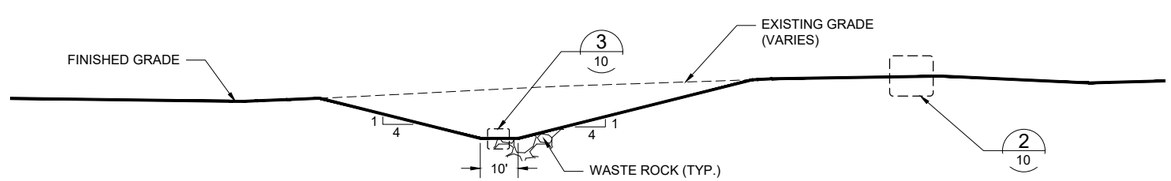
PHASE 2 CHANNEL STA 42+50 TO STA 64+50 (B / 7)
SCALE 1"=20'

0 20' 40'



PHASE 3 CHANNEL STA 23+25 TO STA 42+00 (C / 8)
SCALE 1"=20'

0 20' 40'



PHASE 3 CHANNEL STA 10+00 TO STA 23+00 (D / 8)
SCALE 1"=20'

0 20' 40'

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HUDBAY
ROSEMONT COPPER COMPANY

ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
CIVIL
HEAP LEACH PAD
COLLECTION BERM SECTIONS

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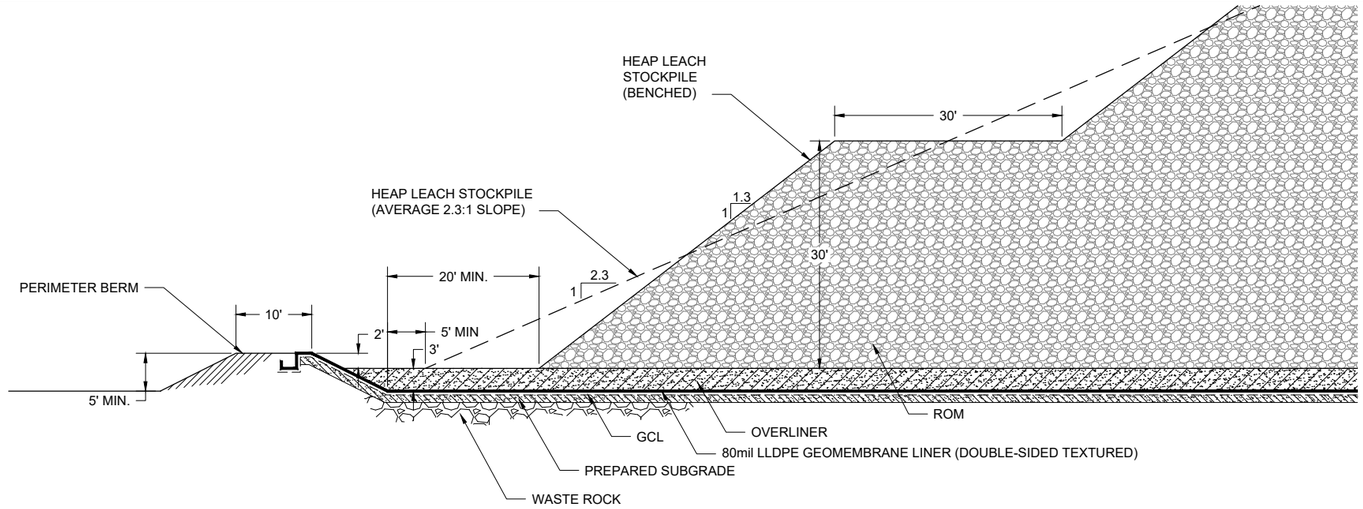
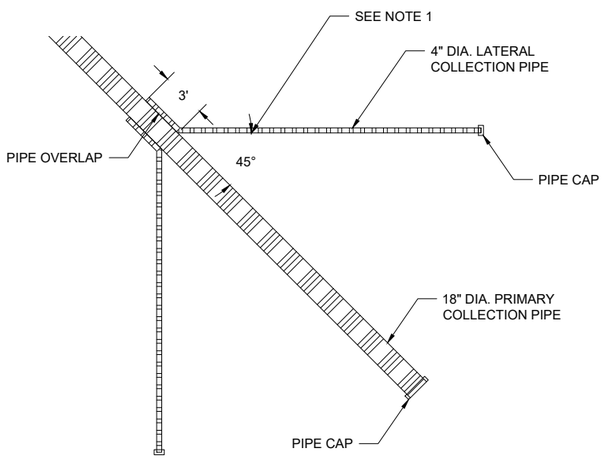
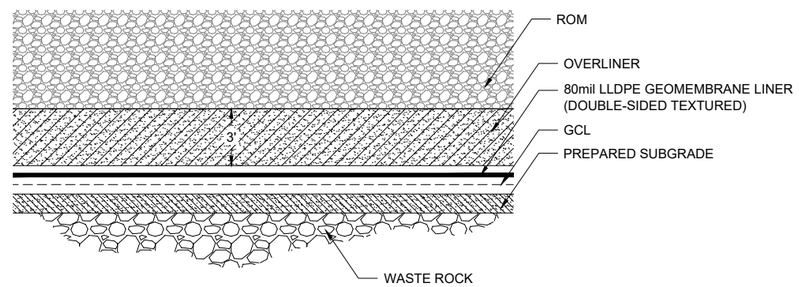


TYPICAL PERIMETER BERM SECTION (A 6) (A 7) (A 8)
SCALE 1"=10'

0 10' 20'

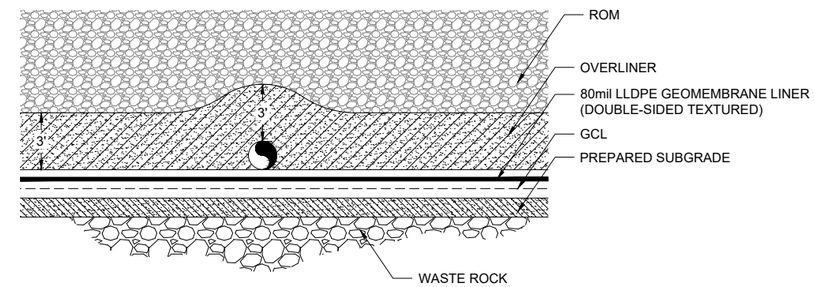


PIPE DETAIL (1 6) (1 7) (1 8)
SCALE NTS



TYPICAL LINED CHANNEL AND HLP LINER DETAIL (2 9)
SCALE 1" = 4'-0"

0 4' 8'



TYPICAL LINED CHANNEL OVER PIPE DETAIL (3 9)
SCALE 1" = 4'-0"

0 4' 8'

NOTE:

1. THE 4" COLLECTOR PIPES ARE TYPICALLY AT A 45° ANGLE TO THE TRUNK PIPE. IN SOME CASES, THE ANGLE IS 90° (SEE PLAN VIEWS FOR REFERENCE). IN OTHER CASES, THIS ANGLE WILL CARY AS A RESULT OF FIELD CONDITIONS. VARIATIONS TO BE APPROVED BY THE ENGINEER.

DRAFT

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PRE-FEASIBILITY STUDY
CIVIL
WRF / HLP
COLLECTION BERM DETAILS

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10	
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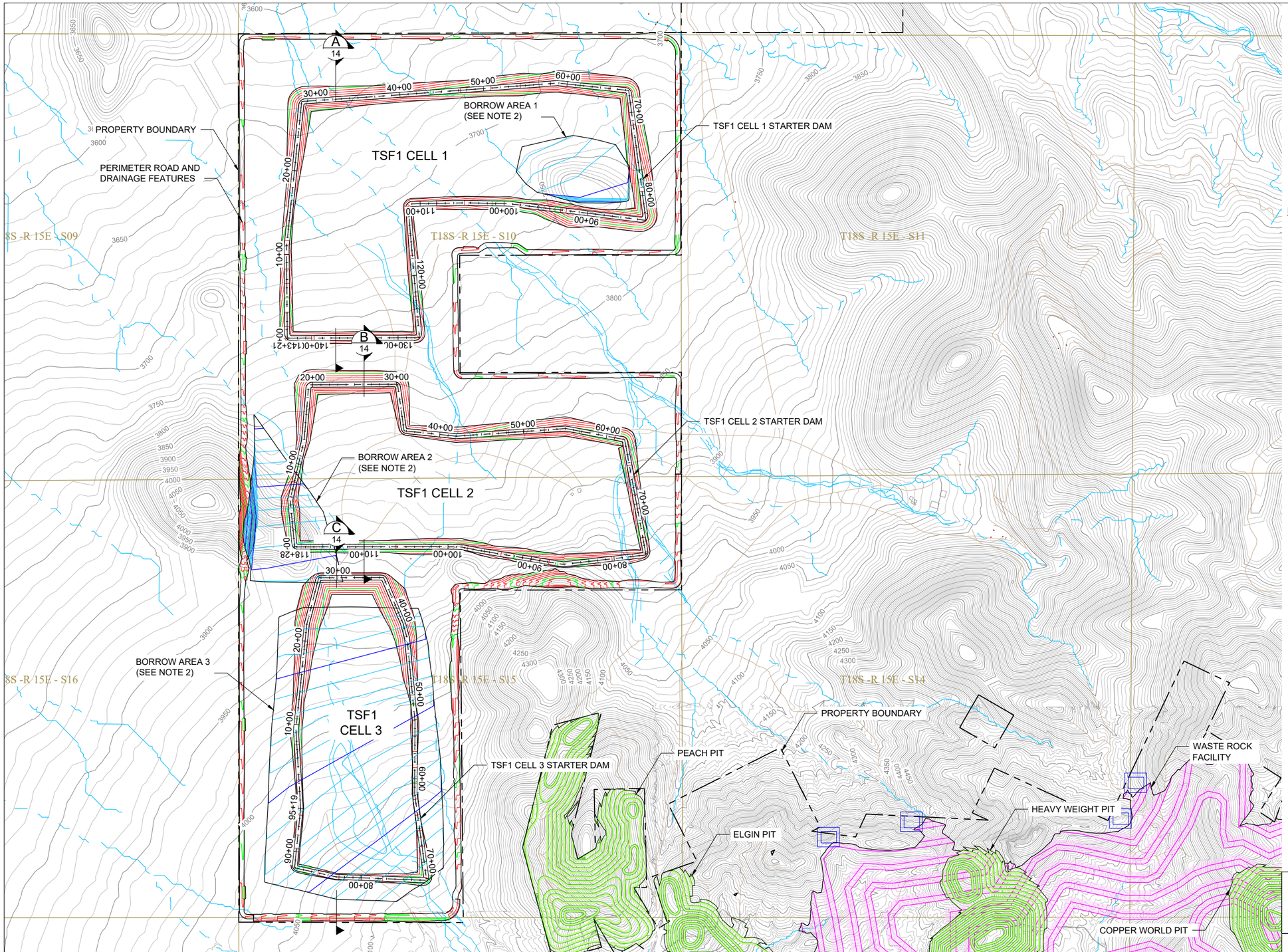

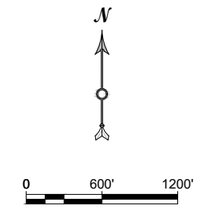

NOTES:

1. PITS AND WASTE ROCK FACILITY SHOWN FOR REFERENCE ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.
2. TSF1 STARTER DAMS CONSTRUCTED WITH LOCAL BORROW MATERIAL (BORROW AREAS 1, 2, AND 3).

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ROSEMONT COPPER WORLD PROJECT

PRE-FEASIBILITY STUDY
CIVIL
TAILINGS STORAGE FACILITY 1
STARTER DAM PLAN

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
11	
REVISION	DATE
A	03/30/22

DRAWING PATH: G:\Geotechnical\2021 Projects\17-2021-4024 Rosemont_RP21 Private Land Studies\14 CAD\FIG\Permit Figures\11 TSF1 STARTER DAM PLAN.dwg

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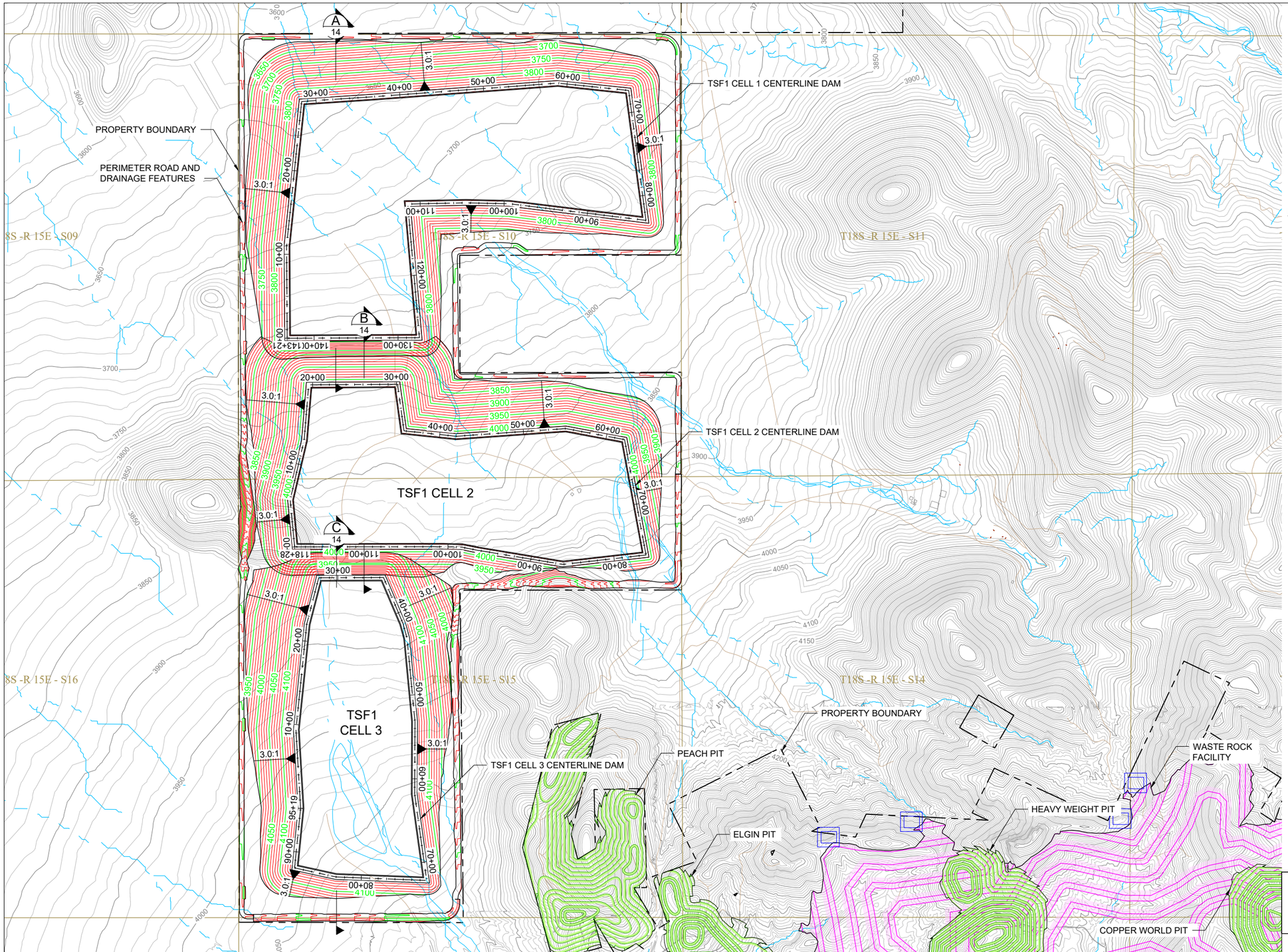

N

0 600' 1200'

NOTE:

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PRE-FEASIBILITY STUDY
CIVIL
TAILINGS STORAGE FACILITY 1
CENTERLINE DAM PLAN

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
12	
REVISION	DATE
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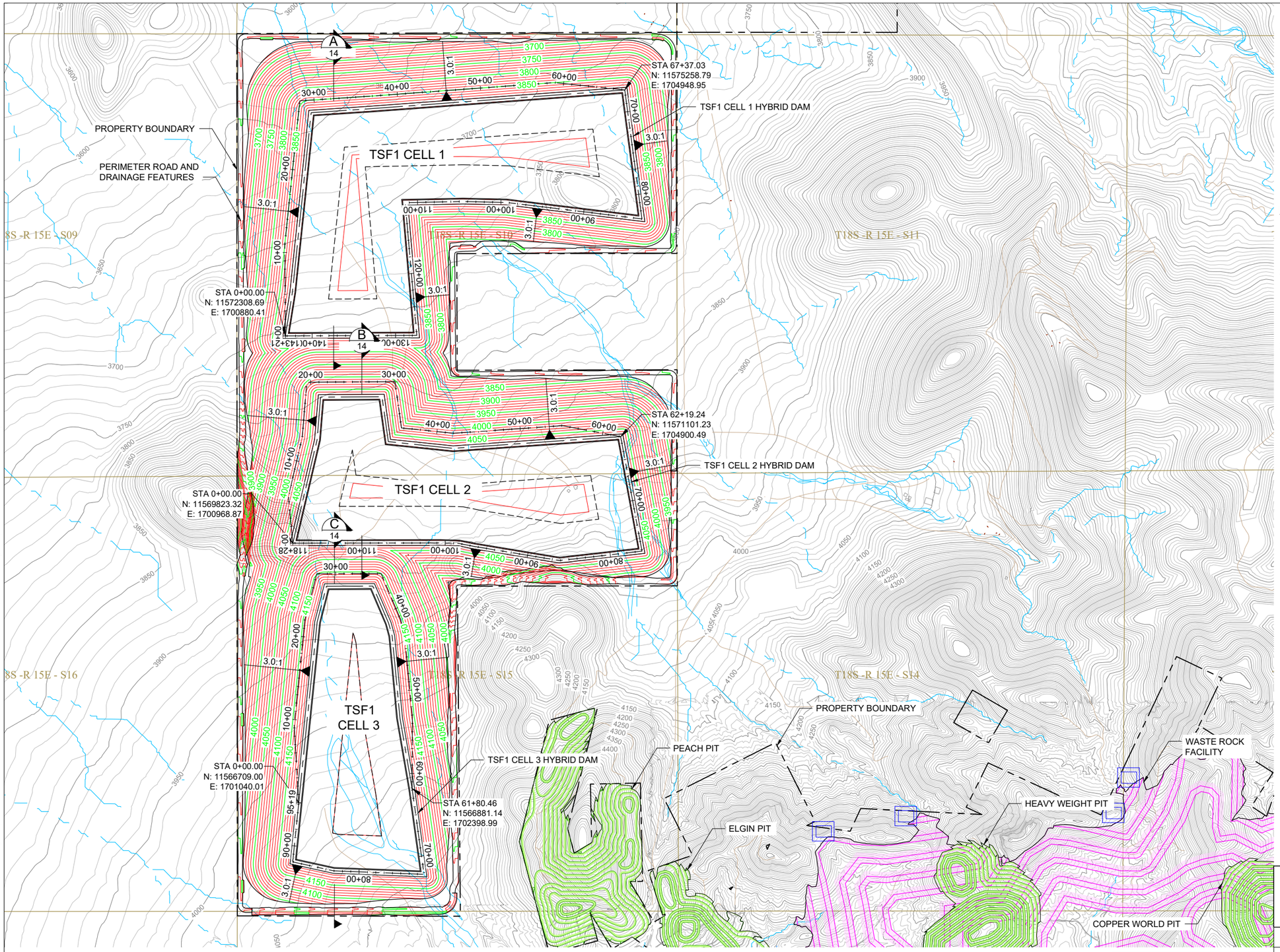

NOTES:

1. PITS AND WASTE ROCK FACILITY SHOWN FOR REFERENCE ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

2. TSF1 CELL 1 FINAL CONFIGURATION IS A HYBRID OF A CENTERLINE RAISE SAND DAM AND AN UPSTREAM RAISE DAM.
   - 2.1. UPSTREAM RAISE FROM STA 0+00 TO STA 67+37
   - 2.2. UPSTREAM RAISE FROM EL. 3840 TO EL. 4890 (5 X 10' LIFTS)
   - 2.3. UPSTREAM RAISE EMBANKMENT CREST IS 80' WIDE
   - 2.4. CENTERLINE RAISE FROM STA 67+37 TO STA 143+21

3. TSF1 CELL 2 FINAL CONFIGURATION IS A HYBRID OF A CENTERLINE RAISE SAND DAM AND AN UPSTREAM RAISE DAM.
   - 3.1. UPSTREAM RAISE FROM STA 0+00 TO STA 62+19
   - 3.2. UPSTREAM RAISE FROM EL. 4010 TO EL. 4070 (6 X 10' LIFTS)
   - 3.3. UPSTREAM RAISE EMBANKMENT CREST IS 80' WIDE
   - 3.4. CENTERLINE RAISE FROM STA 62+19 TO STA 118+28

4. TSF1 CELL 3 FINAL CONFIGURATION IS A HYBRID OF A CENTERLINE RAISE SAND DAM AND AN UPSTREAM RAISE DAM.
   - 4.1. UPSTREAM RAISE FROM STA 0+00 TO STA 61+81
   - 4.2. UPSTREAM RAISE FROM EL. 4147 TO EL. 4197 (5 X 10' LIFTS)
   - 4.3. UPSTREAM RAISE EMBANKMENT CREST IS 80' WIDE
   - 4.4. CENTERLINE RAISE FROM STA 61+81 TO STA 95+19

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PRE-FEASIBILITY STUDY
CIVIL
TAILINGS STORAGE FACILITY 1
HYBRID DAM PLAN

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
13	
REVISION	DATE
A	03/30/22

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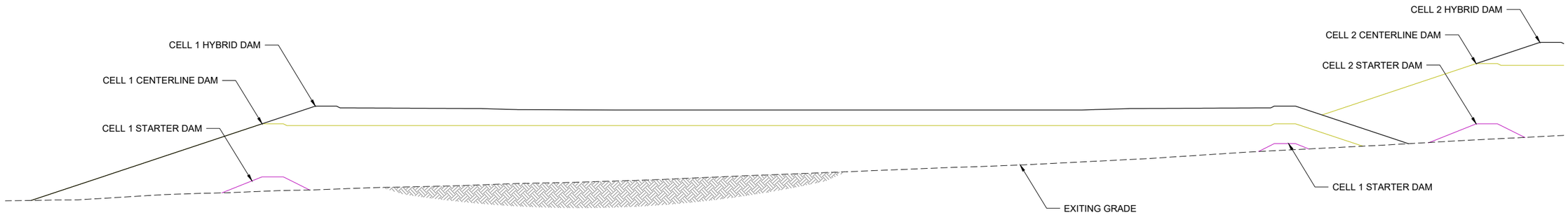
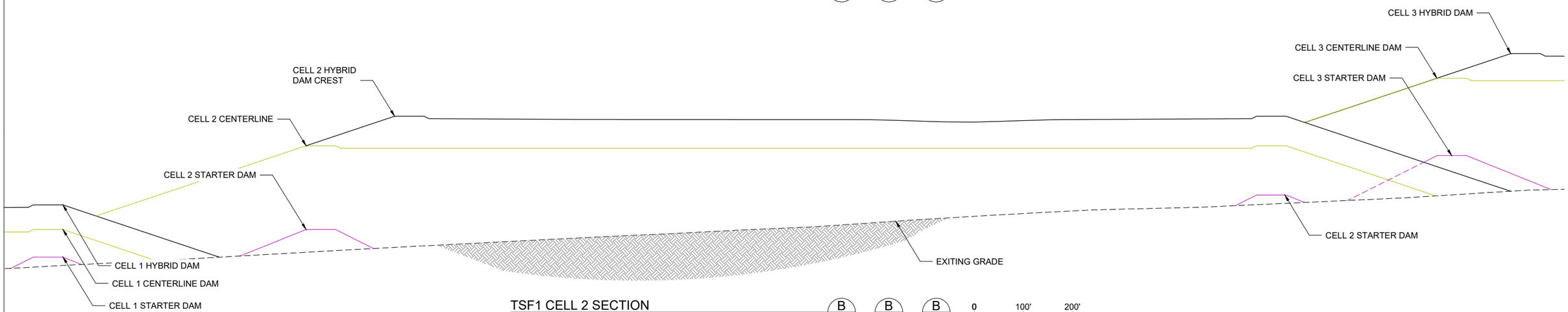


TSF1 CELL 1 SECTION
SCALE 1" = 150'

A 11 A 12 A 13

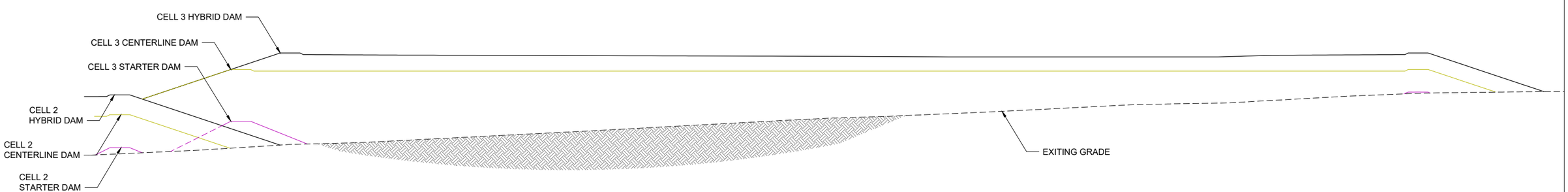
0 150' 300'



TSF1 CELL 2 SECTION
SCALE 1" = 100'

B 11 B 12 B 13

0 100' 200'



TSF1 CELL 3 SECTION
SCALE 1" = 150'

C 11 C 12 C 13

0 150' 300'

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SECTIONS AND DETAILS

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
14	
REVISION	DATE
A	03/30/22

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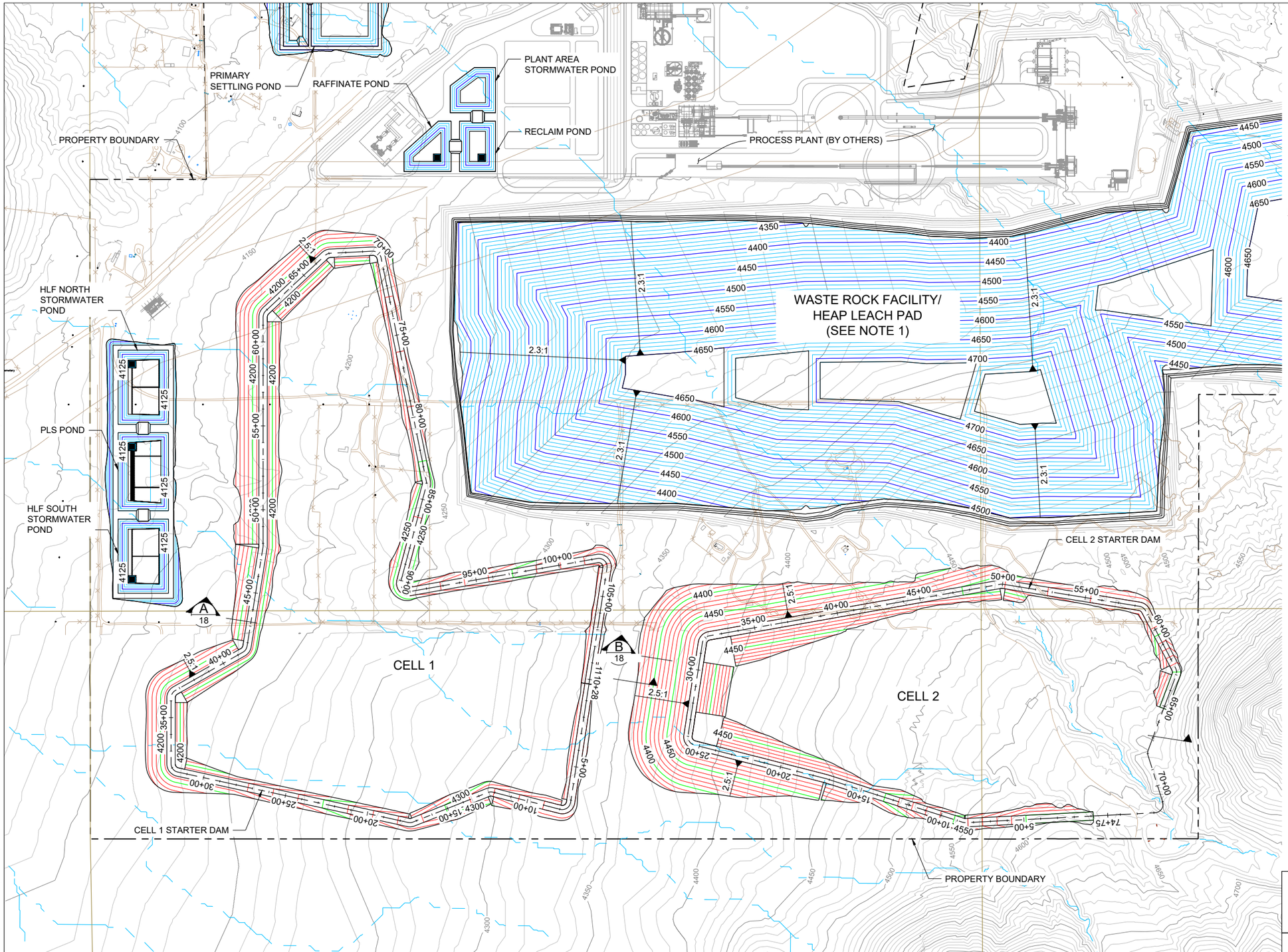
RCC-CW010007



N

0 300' 600'

NOTE:

1. WASTE ROCK FACILITY/ HEAP LEACH PAD SHOWN FOR REFERENCED ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

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PRE-FEASIBILITY STUDY
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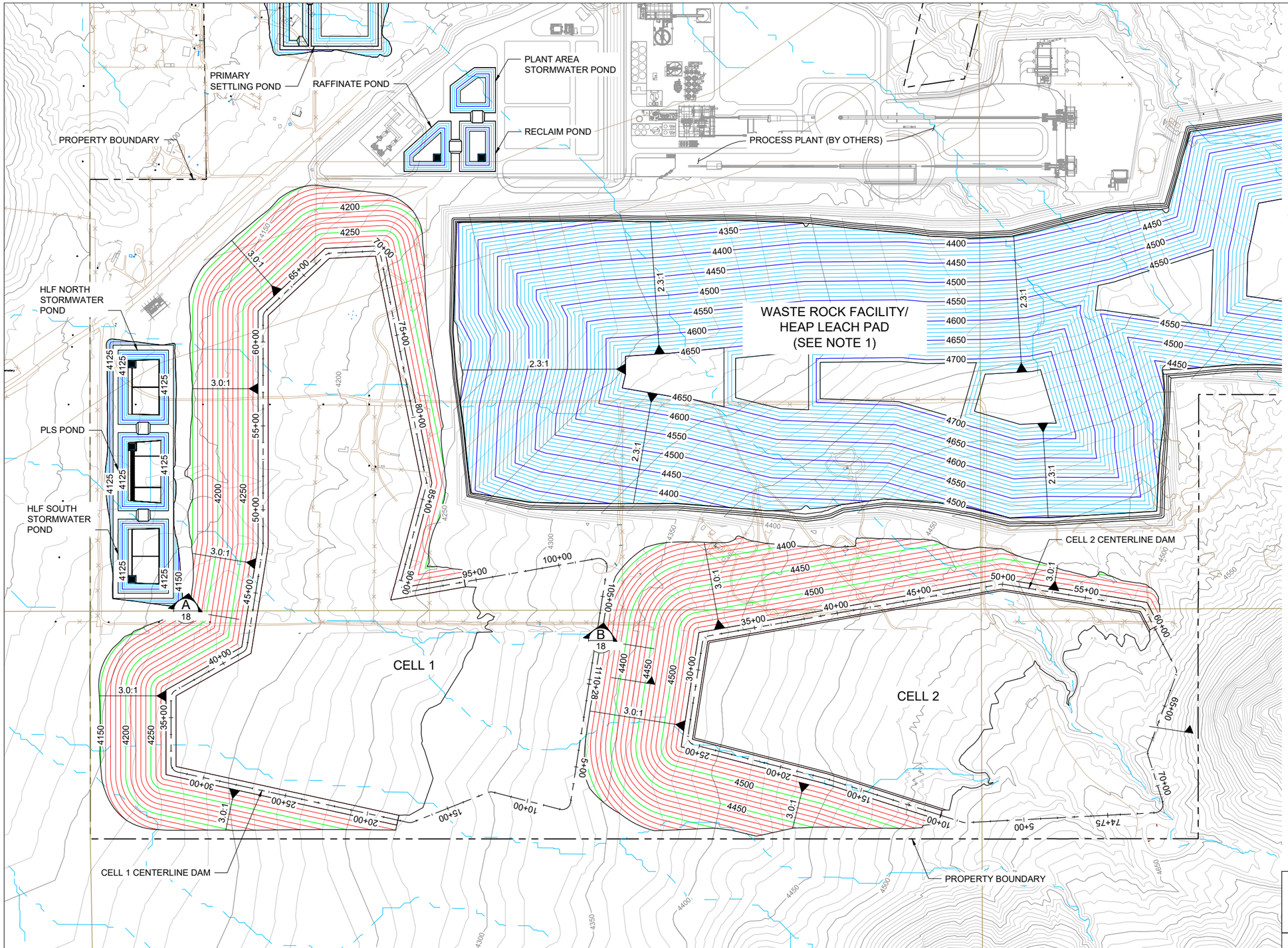
TAILINGS STORAGE FACILITY 2
STARTER DAM PLAN

CONTRACTOR DWG. NO.	
1720214024	
DWG. NO.	
15	
REVISION	DATE
A	03/30/22

DRAWING PATH: G:\Geotechnical\2021 Projects\17-2021-4024 Rosemont_RP21 Private Land Studies\14 CAD\FIG\Permit Figures\15 TSF2 STARTER DAM PLAN.dwg

wood

RCC-CW010008



N

0 300' 600'

NOTE:

1. WASTE ROCK FACILITY/ HEAP LEACH PAD SHOWN FOR REFERENCED ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

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CENTERLINE DAM PLAN

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1720214024	
DWG. NO.	
16	
REVISION	DATE
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wood

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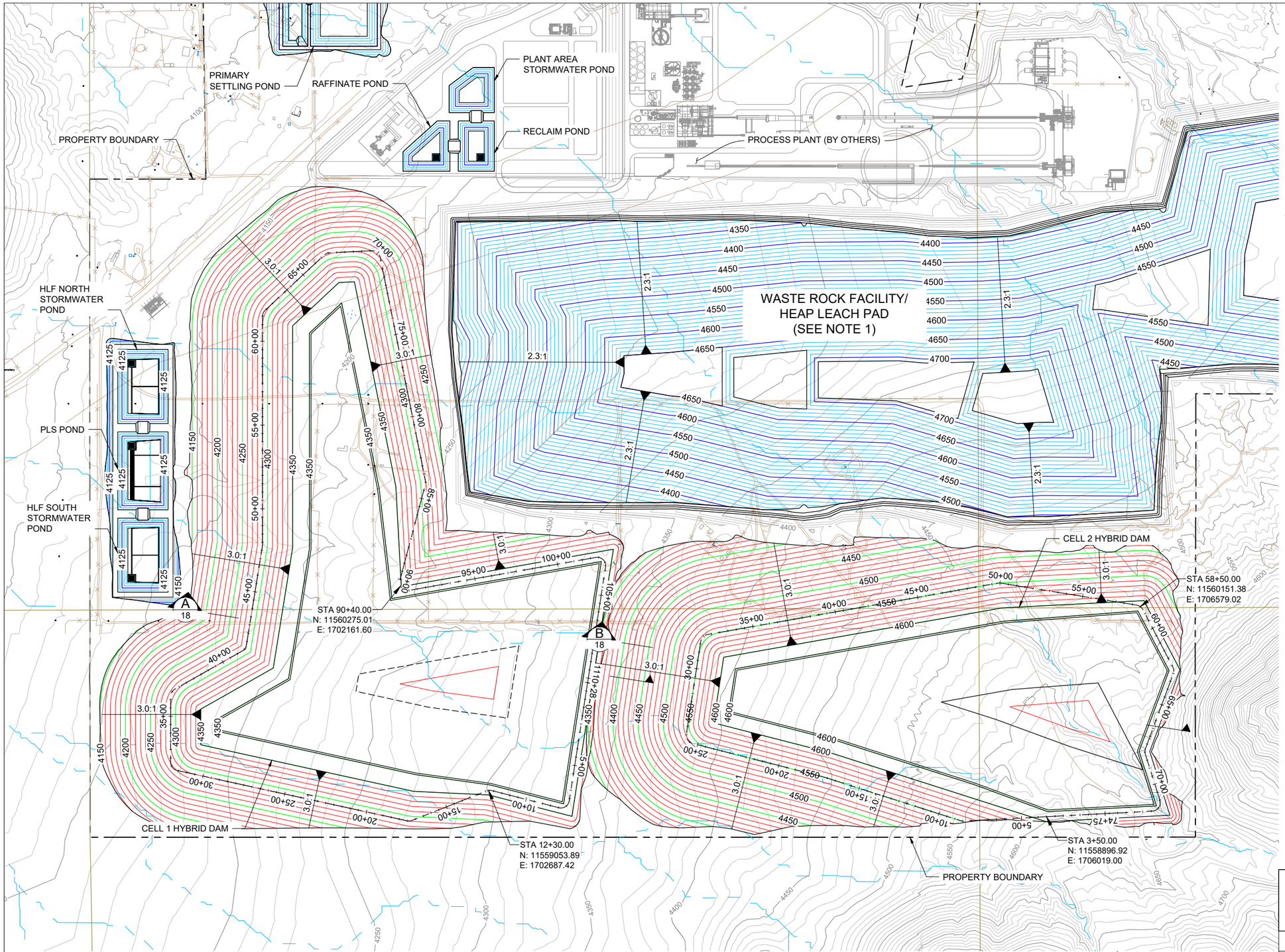

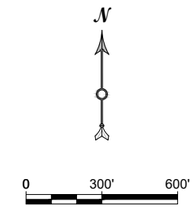

NOTES:

1. WASTE ROCK FACILITY/ HEAP LEACH PAD SHOWN FOR REFERENCED ONLY AND DOES NOT CORRESPOND TO CONSTRUCTION / OPERATIONS SEQUENCING.

2. TSF2 CELL 1 FINAL CONFIGURATION IS A HYBRID OF A CENTERLINE RAISE SAND DAM AND AN UPSTREAM RAISE DAM.
   - 2.1. UPSTREAM RAISE FROM STA 0+00 TO STA 90+40
   - 2.2. UPSTREAM RAISE FROM EL. 4280 TO EL. 4350 (7 X 10' LIFTS)
   - 2.3. UPSTREAM RAISE EMBANKMENT CREST IS 100' WIDE
   - 2.4. CENTERLINE RAISE FROM STA 90+40 TO STA 110+27

3. TSF2 CELL 2 FINAL CONFIGURATION IS A HYBRID OF A CENTERLINE RAISE SAND DAM AND AN UPSTREAM RAISE DAM.
   - 3.1. UPSTREAM RAISE FROM STA 3+50 TO STA 58+50
   - 3.2. UPSTREAM RAISE FROM EL. 4540 TO EL. 4600 (6 X 10' LIFTS)
   - 3.3. UPSTREAM RAISE EMBANKMENT CREST IS 80' WIDE
   - 3.4. CENTERLINE RAISE FROM STA 58+50 TO STA 74+75

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HYBRID DAM PLAN

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DWG. NO.	
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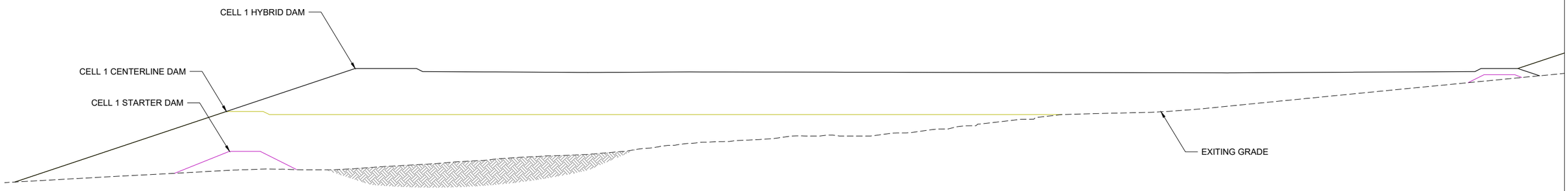
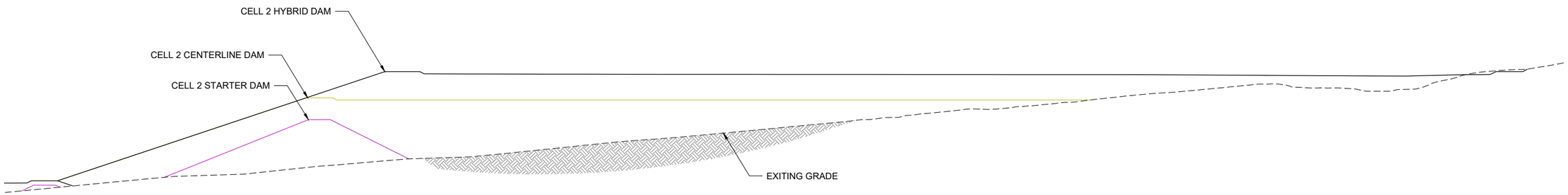
RCC-CW010010



TSF1 CELL 2 SECTION
SCALE 1" = 80'

A 15 | A 16 | A 17

0 80' 160'



TSF1 CELL 2 SECTION
SCALE 1" = 120'

B 15 | B 16 | B 17

0 120' 240'

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SECTIONS AND DETAILS

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18	
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