



Technical Memorandum

DATE: February 16, 2021
TO: Mr. Jason Smith, Teichert Aggregates (JSmith@teichert.com)
FROM: Till Angermann, Principal Hydrogeologist
SUBJECT: MINOR RECLAMATION MODIFICATION
TEICHERT'S SCHWARZGRUBER PROPERTY, WOODLAND, YOLO COUNTY

PROJECT: 10-1-074

Luhdorff & Scalmanini Consulting Engineers (LSCE) previously evaluated potential effects of planned mining and reclamation activities at Teichert's Schwarzgruber property on groundwater levels and flow (LSCE 2011). The modifications in the revised reclamation plan (Exhibit A) do not affect any of the conclusions set forth in the previous evaluation.

References

Luhdorff and Scalmanini Consulting Engineers. 2011. Groundwater Conditions in the Vicinity of Planned Wet-Pit Mining Operations, Schwarzgruber Property. Report. April 25, 2011. LSCE file 10-1-074.

Exhibit

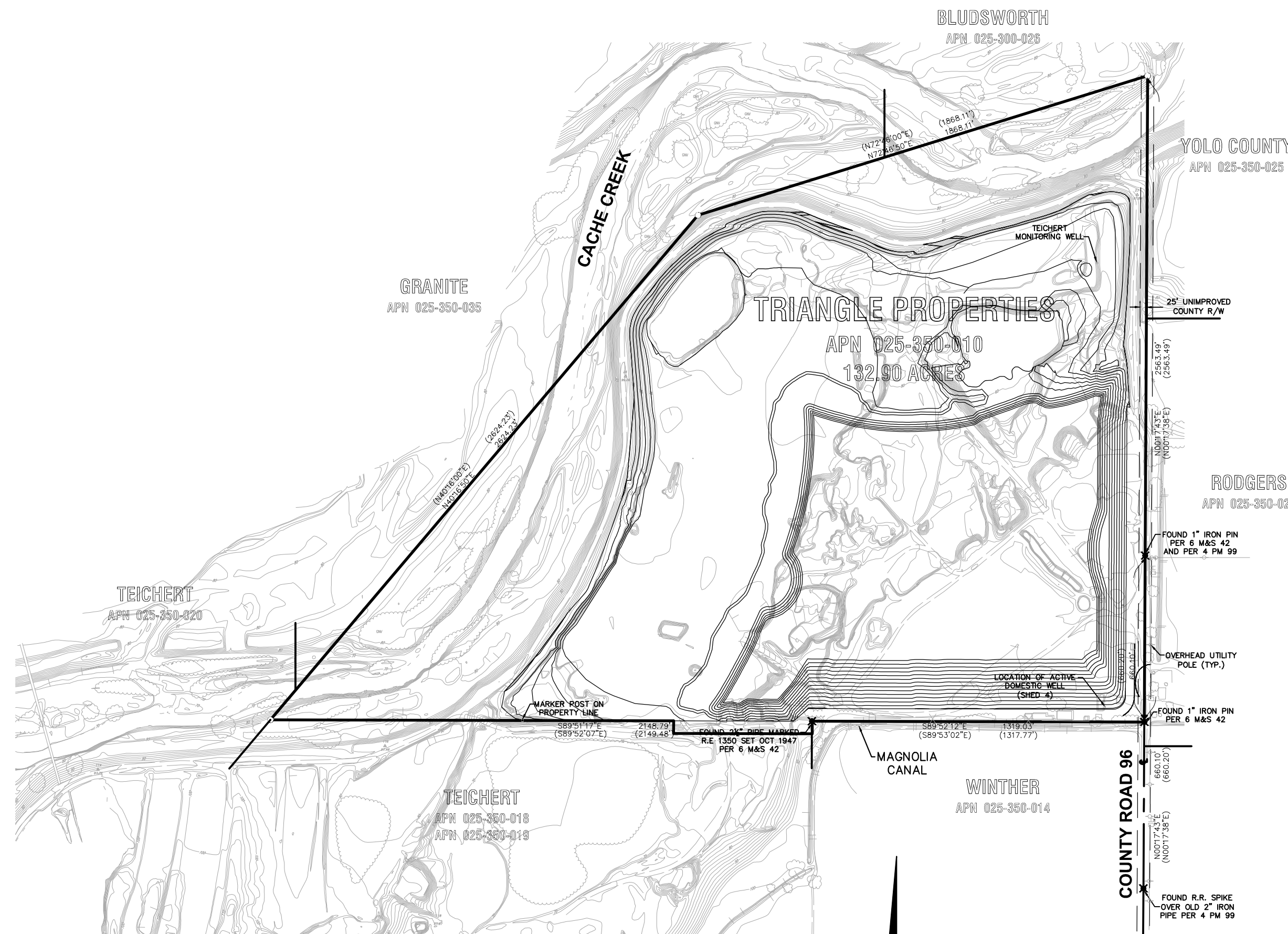
Exhibit A Conceptual Off-Channel Reclamation Plan – Schwarzgruber Property (January 2021)

CONCEPTUAL OFF-CHANNEL RECLAMATION PLAN FOR SCHWARZGRUBER PROPERTY

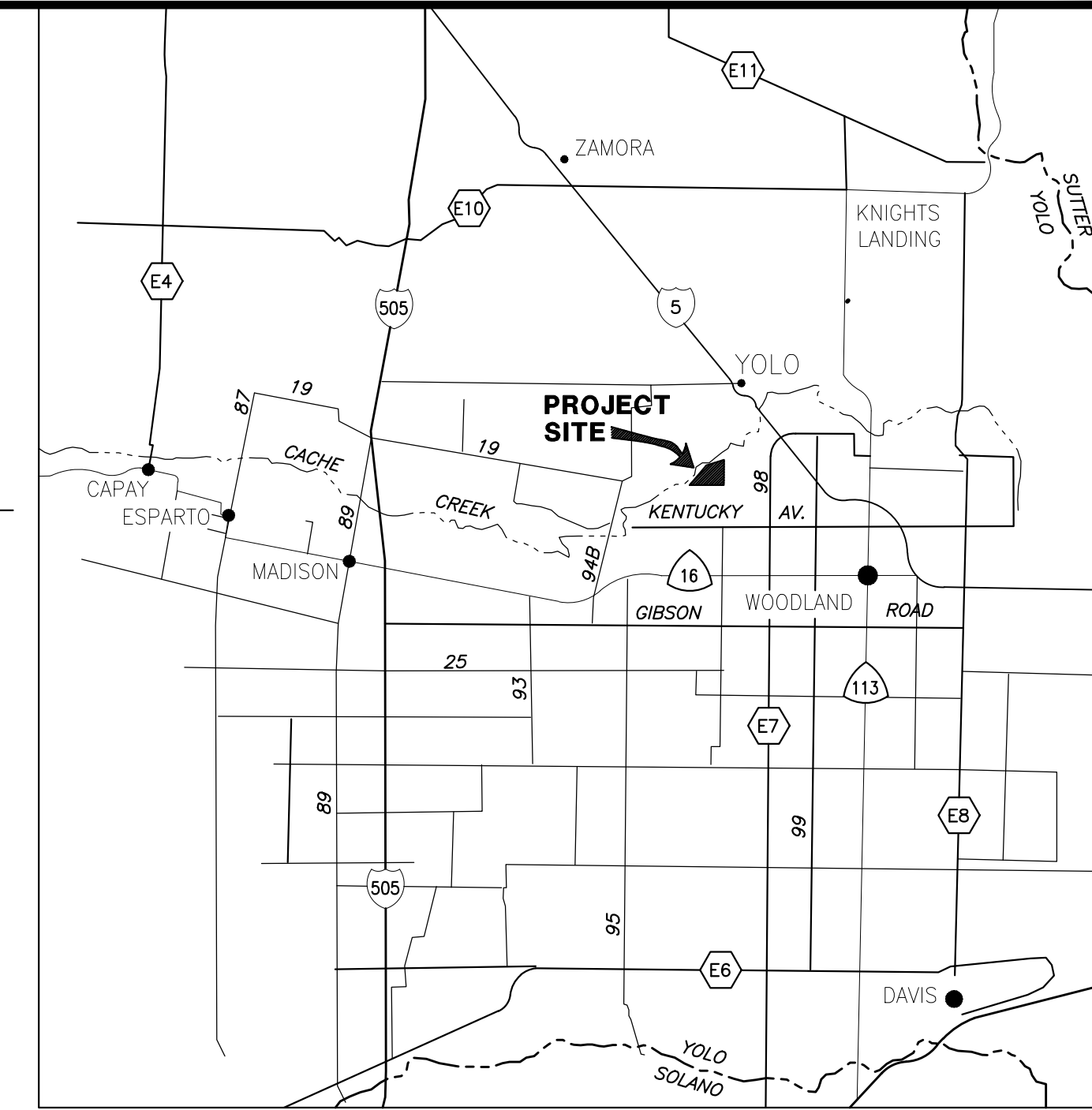
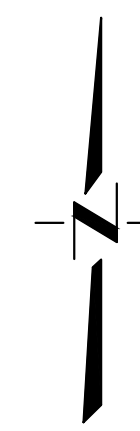
YOLO COUNTY, CALIFORNIA
JANUARY 2021

GENERAL NOTES:

- ALL WORK SHALL CONFORM TO THE YOLO COUNTY SURFACE MINING RECLAMATION ORDINANCE (ORD. #1191), THE PROJECT SPECIFIC CONDITIONS OF APPROVAL, THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP), THE SURFACE MINING AND RECLAMATION ACT (SMARA), OSHA, MSHA, AND OTHER APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- EXISTING TOPOGRAPHY BASED ON AERIAL TOPOGRAPHY FLOWN APRIL 2010; VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING MINING.
- ANY WORK THAT NEEDS TO BE PERFORMED WITHIN PG&E'S OR ANY OTHER UTILITY COMPANY'S EASEMENT WILL REQUIRE A CONSENT AGREEMENT FROM THE APPROPRIATE UTILITY COMPANY. USE CAUTION WHEN OPERATING ANY VEHICLES OR EQUIPMENT NEAR OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES. COMPLY WITH ALL CONDITIONS LISTED IN THE CONSENT AGREEMENT.
- THE DEPTH OF MINING AND THE LIMIT-OF-MINING LINES ARE ONLY APPROXIMATE, AND ARE SUBJECT TO CHANGE BASED ON THE AMOUNT AND QUALITY OF MATERIAL UNCOVERED, AND THE ABILITY OF THE PRODUCER TO MEET THE RECLAMATION REQUIREMENTS. THE FORESEEABLE ESTIMATE OF VARIATION IS +/- 10' IN MINING DEPTH; AND +/- 20% OF AREA FOR EACH TYPE OF RECLAMATION.
- HIGH AND LOW AVERAGE GROUNDWATER ELEVATIONS BASED ON "GROUNDWATER CONDITIONS IN VICINITY OF PLANNED WET-PIT MINING OPERATIONS-SCHWARZGRUBER PROPERTY", BY LUHDORFF & SCALMANINI CONSULTING ENGINEERS DATED APRIL 25, 2011.
- IF HUMAN SKELETAL REMAINS ARE ENCOUNTERED DURING EXCAVATION, ALL WORK WITHIN SEVENTY-FIVE (75) FEET SHALL IMMEDIATELY STOP, AND THE COUNTY CORONER SHALL BE NOTIFIED WITHIN TWENTY-FOUR (24) HOURS. IF ANY CULTURAL RESOURCES, SUCH AS CHIPPED OR GROUND STONE, HISTORIC DEBRIS, BUILDING FOUNDATIONS, OR PALEONTOLOGICAL MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEN ALL WORK WITHIN SEVENTY-FIVE (75) FEET SHALL IMMEDIATELY STOP AND THE DIRECTOR SHALL BE NOTIFIED AT ONCE. ANY CULTURAL RESOURCES FOUND ON THE SITE SHALL BE RECORDED BY A QUALIFIED ARCHAEOLOGIST AND THE INFORMATION SHALL BE SUBMITTED TO THE COUNTY.
- DURING OPERATIONS, THE SITE SHALL BE KEPT FREE OF DEBRIS AND MAINTAINED IN A NEAT AND ORDERLY MANNER SO AS NOT TO CREATE ANY HAZARDOUS OR UNSIGHTLY CONDITIONS. OVERBURDEN SHALL BE STOCKPILED AND STUMPS, BRUSH, OR OTHER DEBRIS RESULTING FROM EXCAVATION AND/OR PROCESSING SHALL BE PROPERLY DISPOSED.
- UNNECESSARY PERSONNEL SHALL BE EXCLUDED FROM OFF-CHANNEL EXCAVATIONS. OPEN PITS SHALL BE FENCED WITH A FOUR STRAND BARBED WIRE FENCE OR THE EQUIVALENT, PRIOR TO THE COMMENCEMENT OF EXCAVATION. FENCING MAY ENCLOSE THE PROPERTY OF WHICH THE MINING SITE IS A PART, THE MINING SITE, OR BOTH. IN ADDITION, SIGNS SHALL BE INSTALLED AT THE PROJECT SITE BOUNDARIES AND ACCESS ROAD, INDICATING THAT THE EXCAVATION AREA IS A DANGER ZONE.
- THE EXISTING CONDITIONS DEPICTED ON THIS PLAN ARE REFLECTIVE OF THE EXISTING PHYSICAL CONDITIONS ON THE PROJECT SITE AS OF APRIL 2010. THE PROJECT SITE IS THE SITE OF AN EXISTING, ON-GOING MINING OPERATION THAT IS NOT CURRENTLY UNDER THE DIRECT CONTROL OF THE PROJECT APPLICANT. THE PHYSICAL CONDITIONS DEPICTED IN THESE PLANS MAY CHANGE AS A RESULT OF ON-GOING MINING AND RECLAMATION ACTIVITIES CONDUCTED BY THE CURRENT MINING OPERATOR. THE CONDITIONS DEPICTED IN THESE PLANS COULD DIFFER FROM THE CONDITIONS ON THE SITE IMMEDIATELY PRIOR TO COMMENCEMENT OF THE MINING AND RECLAMATION ACTIVITIES CONTEMPLATED IN THIS APPLICATION.



KEY MAP
1"=400'



VICINITY MAP
NOT TO SCALE

SHEET INDEX:

- R-01 TITLE SHEET
- R-02 SITE PLAN
- R-03 CROSS SECTION A-A
- R-04 CROSS SECTION B-B
- R-05 CROSS SECTION C-C
- R-06 CROSS SECTION D-D
- R-07 CROSS SECTION E-E

BENCHMARK:

EXISTING TOPOGRAPHY BASED ON AERIAL TOPOGRAPHY FLOWN APRIL 30, 2010, PROVIDED BY POINT CO. PHOTOGRAMMETRIC SERVICES. AERIAL TARGETS SURVEYED BY LAUGENOUR AND MEIKLE, WOODLAND. HORIZONTAL DATUM: CA NAD83 ZONE 2 VERTICAL DATUM: NAVD 88

ASSESSORS PARCEL NO.:

025-350-010

PROPERTY OWNER:

TRIANGLE PROPERTIES INC.
P.O. BOX 15002
SACRAMENTO, CA 95851

APPLICANT:

TEICHERT AGGREGATES
P.O. BOX 15002
SACRAMENTO, CA 95851
(916) 484-3319

CIVIL ENGINEER:

CUNNINGHAM ENGINEERING
2940 SPAFFORD STREET, SUITE 200
DAVIS, CALIFORNIA 95618
(530) 758-2026

LEGEND:

FOUND MONUMENTS AS SHOWN		EXISTING ELEV.	
POWER POLE		PROPOSED ELEV.	
EXISTING EDGE OF ROAD		HORIZONTAL TO VERTICAL SLOPE	
WATER		WATER SURFACE	
EXISTING GROUND CONTOUR		PROPERTY BOUNDARY	
PROPOSED CONTOUR		EASEMENT	
CROSS SECTION NUMBER AND SHEET LOCATION		TOP OF SLOPE	
RECLAMATION HABITAT BOUNDARY		BOTTOM OF SLOPE	
FENCE			

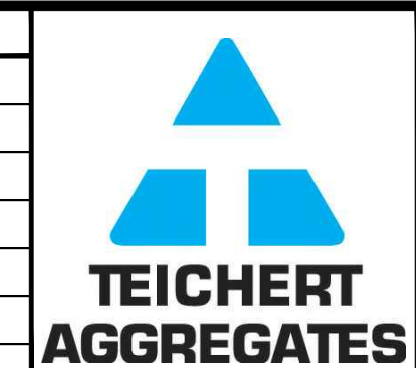
ABBREVIATIONS:

AC	ACRES	IRR	IRRIGATION
AG	AGRICULTURAL	MSHA	MINE SAFETY AND HEALTH ADMINISTRATION
AGG	AGGREGATE	MW	MONITOR WELL
AMSL	ABOVE MEAN SEA LEVEL	N	NORTH
APN	ASSESSOR'S PARCEL NUMBER	N.I.C.	NOT IN CONTRACT
AVG	AVERAGE	OG	ORIGINAL GROUND ELEVATION
CFR	CODE OF FEDERAL REGULATIONS	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
CL	CENTER LINE	PL	PROPERTY LINE
CY	CUBIC YARDS	R	RADIUS
E	EAST	R/W	RIGHT-OF-WAY
ELEV	ELEVATION	RECL.	RECLAMATION
FG	FINISH GRADE	S	SLOPE
FL	FLOW LINE	S&G	SAND AND GRAVEL
FT	FEET	TYP	TYPICAL
GB	GRADE BREAK	V	VERTICAL
GW	GROUND WATER	W	WEST
H	HORIZONTAL	YR	YEAR

DATE SIGNED: _____
THESE DRAWINGS ARE NOT CONSIDERED FINAL UNTIL THE ENGINEER'S SEAL BELOW HAS BEEN SIGNED AND DATED.



DESIGNED BY	NO.	DATE	REVISIONS	BY	APPD.
NC	2	5/3/13	REVISE PER COUNTY COAs	NC	
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LE					
CHECKED BY					
SG					
SCALE					
AS SHOWN					



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Davis Office: 2940 Spafford Street, Suite 200, Davis, CA 95618 (530) 758-2026

SCHWARZGRUBER FINAL RECLAMATION PLAN
(APPLICATION APPROVED NOVEMBER 13, 2012)

TITLE SHEET

YOLO COUNTY CALIFORNIA

SHEET	R-01
OF	7
DATE:	1/11/21
JOB NO:	1129.10

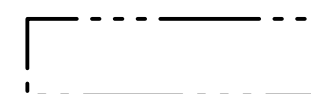






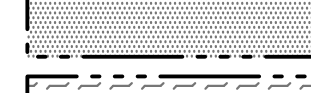
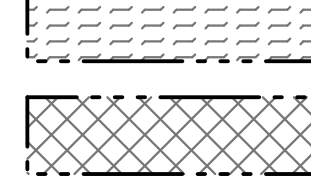
EXHIBIT A

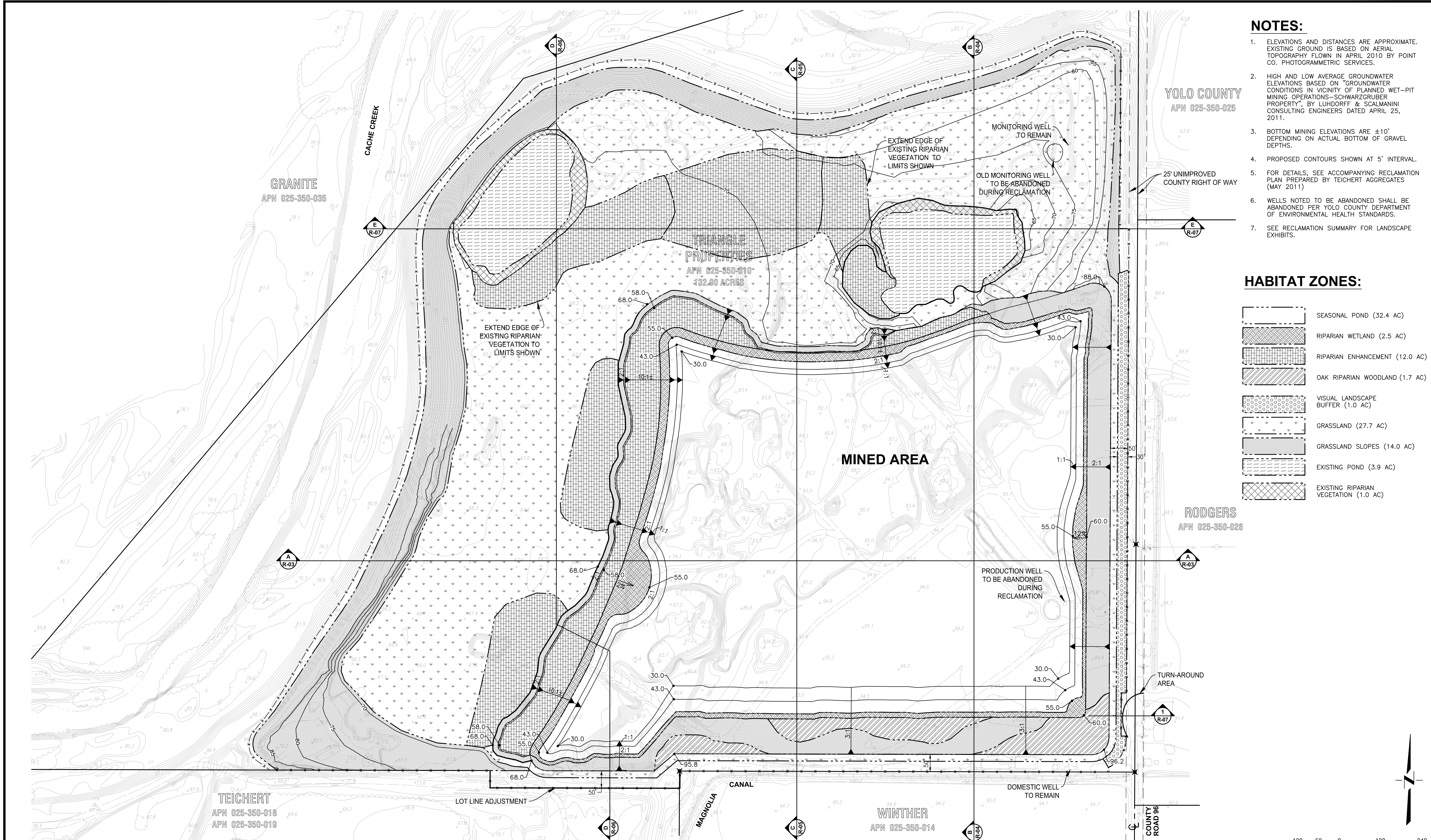
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NOTES:

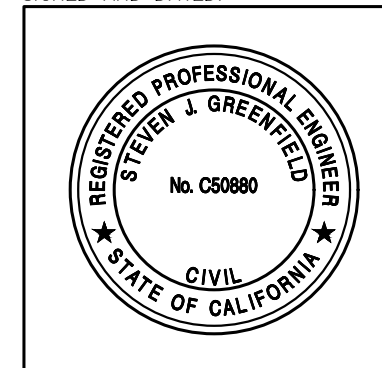
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- BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF GRAVEL DEPTHS.
- PROPOSED CONTOURS SHOWN AT 5' INTERVAL.
- FOR DETAILS, SEE ACCOMPANYING RECLAMATION PLAN PREPARED BY TEICHERT AGGREGATES (MAY 2011)
- WELLS NOTED TO BE ABANDONED SHALL BE ABANDONED PER YOLO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH STANDARDS.
- SEE RECLAMATION SUMMARY FOR LANDSCAPE EXHIBITS.

HABITAT ZONES:

-  SEASONAL POND (32.4 AC)
-  RIPARIAN WETLAND (2.5 AC)
-  RIPARIAN ENHANCEMENT (12.0 AC)
-  OAK RIPARIAN WOODLAND (1.7 AC)
-  VISUAL LANDSCAPE BUFFER (1.0 AC)
-  GRASSLAND (27.7 AC)
-  GRASSLAND SLOPES (14.0 AC)
-  EXISTING POND (3.9 AC)
-  EXISTING RIPARIAN VEGETATION (1.0 AC)

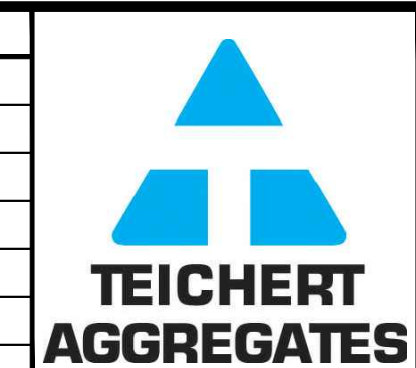


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DESIGNED BY	NO.	DATE	REVISIONS	BY	APPD.
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LE	2	5/3/13	REVISE PER COUNTY COAs	NC	
SG					

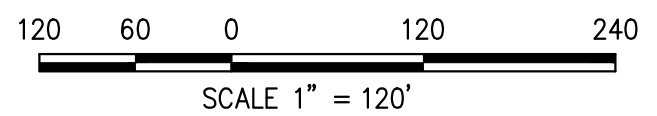
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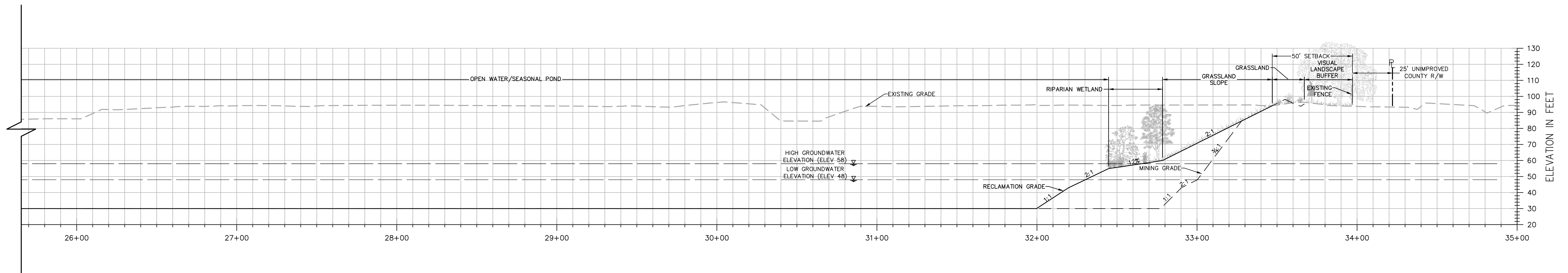
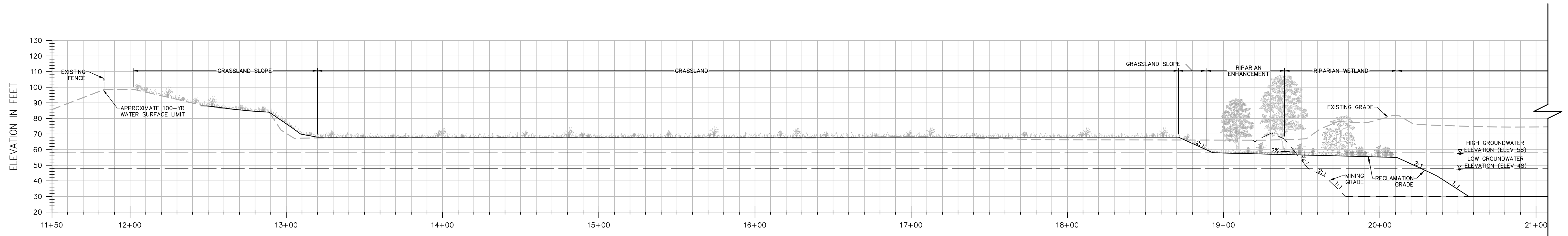


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SCHWARZGRUBER FINAL RECLAMATION PLAN
 (APPLICATION APPROVED NOVEMBER 13, 2012)
SITE PLAN
 SHEET **R-02** OF **7**
 DATE: 1/11/21
 JOB NO: 1129.10
 YOLO COUNTY CALIFORNIA

EXHIBIT A





SECTION A-A

H: 1"=30'
V: 1"=30'

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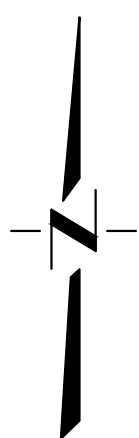
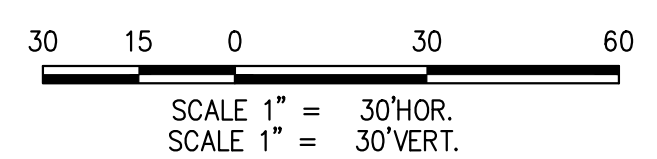
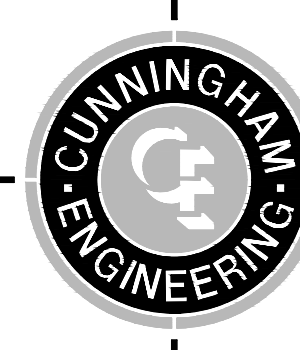


EXHIBIT A

DATE SIGNED: _____
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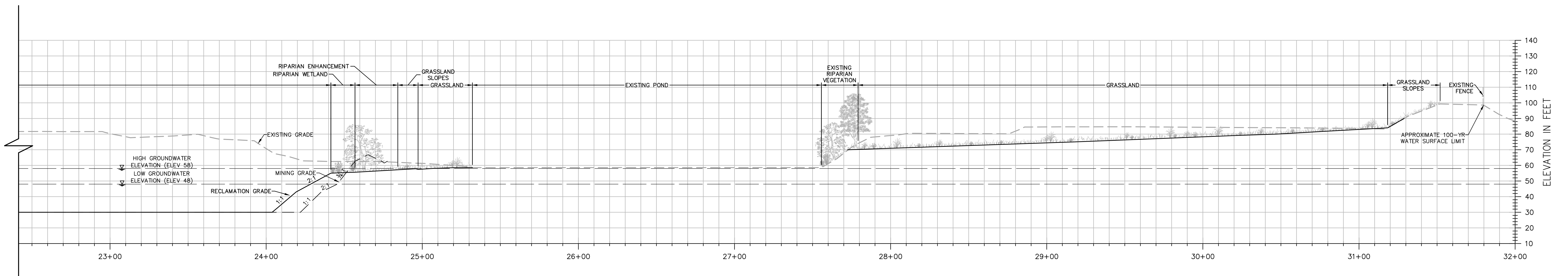
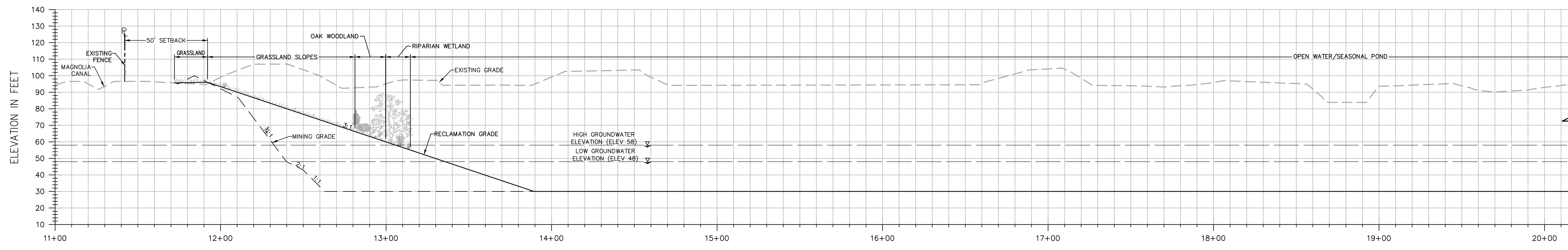
SCHWARZGRUBER FINAL RECLAMATION PLAN
(APPLICATION APPROVED NOVEMBER 13, 2012)
CROSS SECTION A-A

YOLO COUNTY

CALIFORNIA

SHEET
R-03
OF
7
DATE: 1/11/21
JOB NO: 1129.10

S:\Projects\1102129 - Teichert Aggregates\2012\20120501\1102129-10-02-02-Mining and Reclamation Plan\SHEETS\1102129-10-02-02-03-AS-01.dwg - 1/11/2021 - 10:28AM Plotted by: NAI



SECTION B-B

H: 1"=30'
V: 1"=30'

NOTES:

- ELEVATIONS AND DISTANCES ARE APPROXIMATE. EXISTING GROUND IS BASED ON AERIAL TOPOGRAPHY FLOWN IN APRIL 2010 BY POINT CO. PHOTOGRAMMETRIC SERVICES.
- HIGH AND LOW AVERAGE GROUNDWATER ELEVATIONS BASED ON "GROUNDWATER CONDITIONS IN VICINITY OF PLANNED WET-PIT MINING OPERATIONS-SCHWARZGRUBER PROPERTY", BY LUHDORFF & SCALMANINI CONSULTING ENGINEERS DATED APRIL 25, 2011.
- BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF GRAVEL DEPTHS.
- PER THE RECLAMATION ORDINANCE, TEICHERT WILL COMPLY WITH SEC. 10.5.510 REGARDING FENCING.

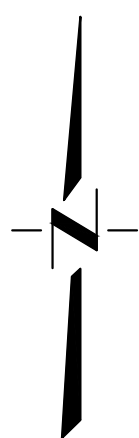
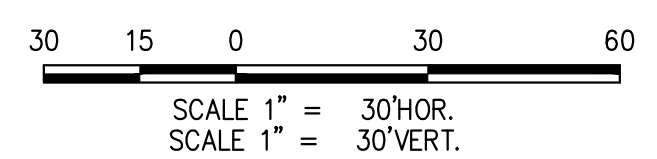
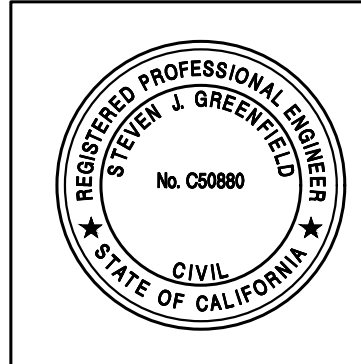


EXHIBIT A

DATE SIGNED: _____
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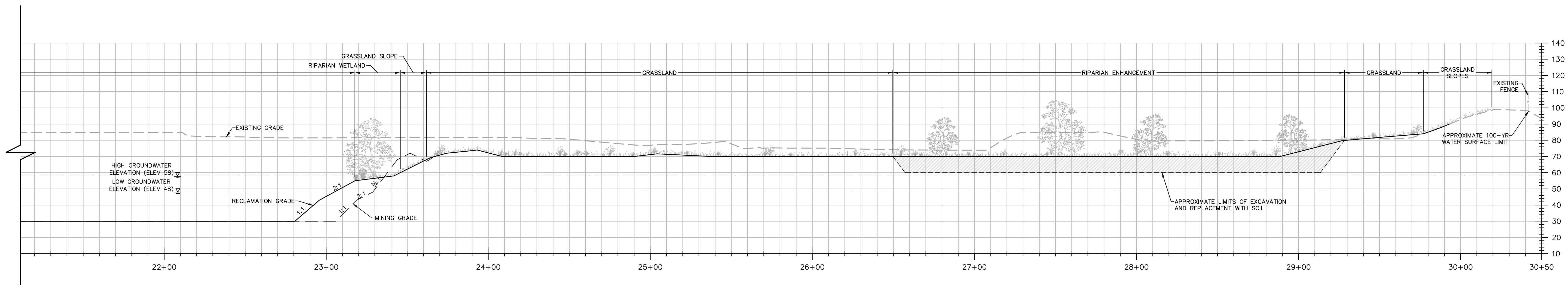
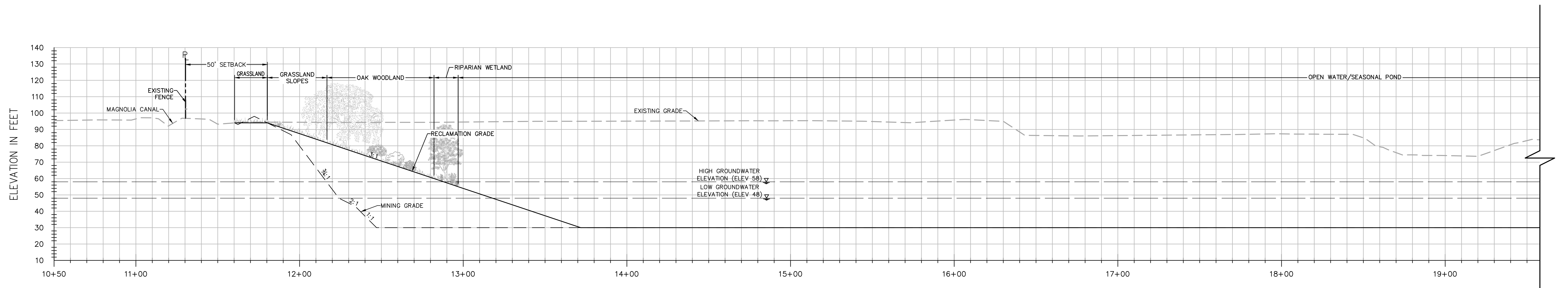
SCHWARZGRUBER FINAL RECLAMATION PLAN
(APPLICATION APPROVED NOVEMBER 13, 2012)
CROSS SECTION B-B

YOLO COUNTY

CALIFORNIA

SHEET	R-04
OF	7
DATE:	1/11/21
JOB NO:	1129.10

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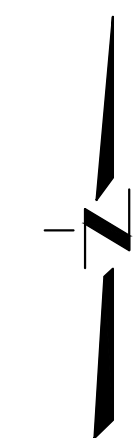
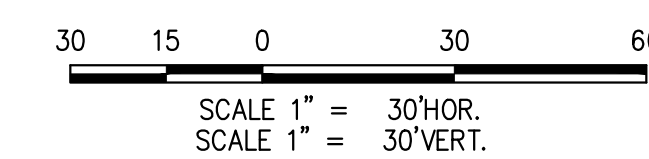


SECTION C-C

H: 1"=30'
V: 1"=30'

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SCHWARZGRUBER FINAL RECLAMATION PLAN
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CROSS SECTION C-C

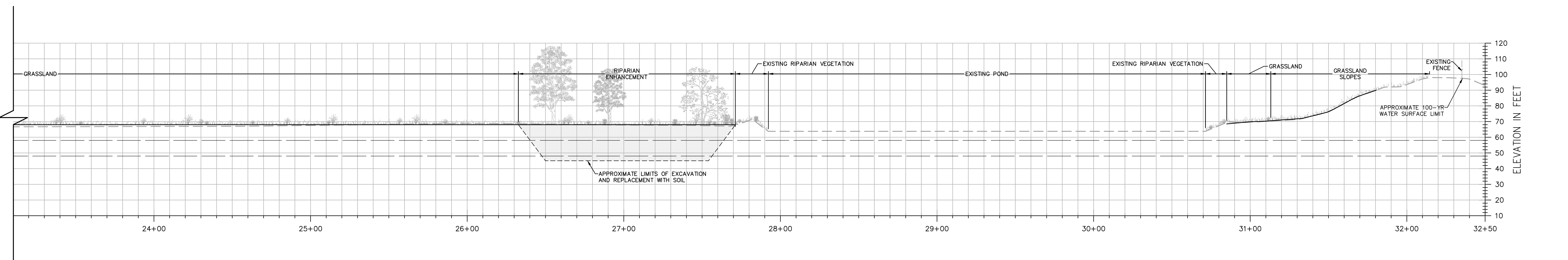
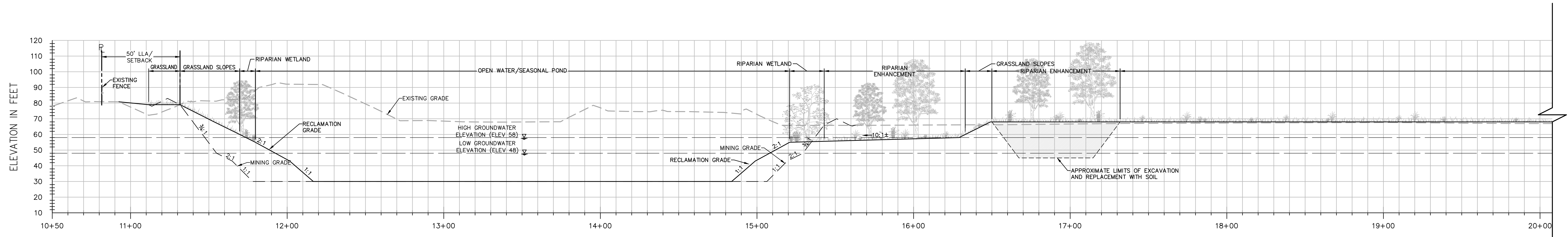
YOLO COUNTY

CALIFORNIA

SHEET	R-05
OF	7
DATE:	1/11/21
JOB NO:	1129.10

EXHIBIT A

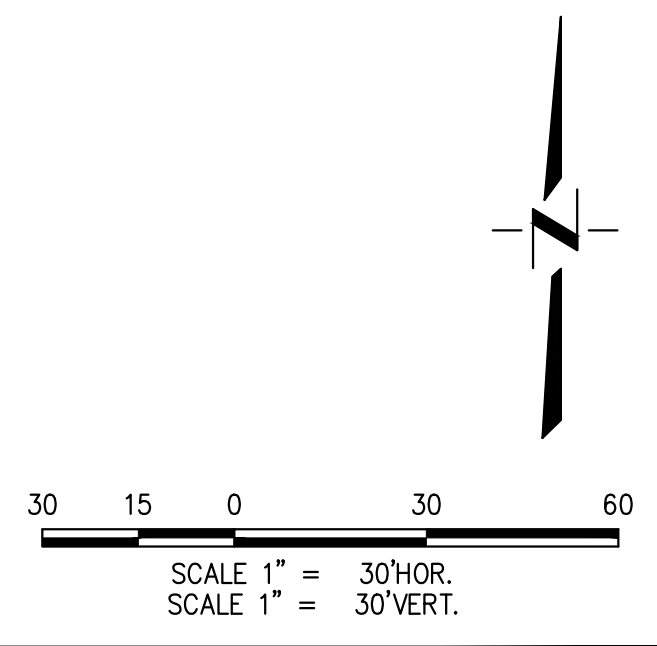
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SECTION D-D
 H: 1"=30'
 V: 1"=30'

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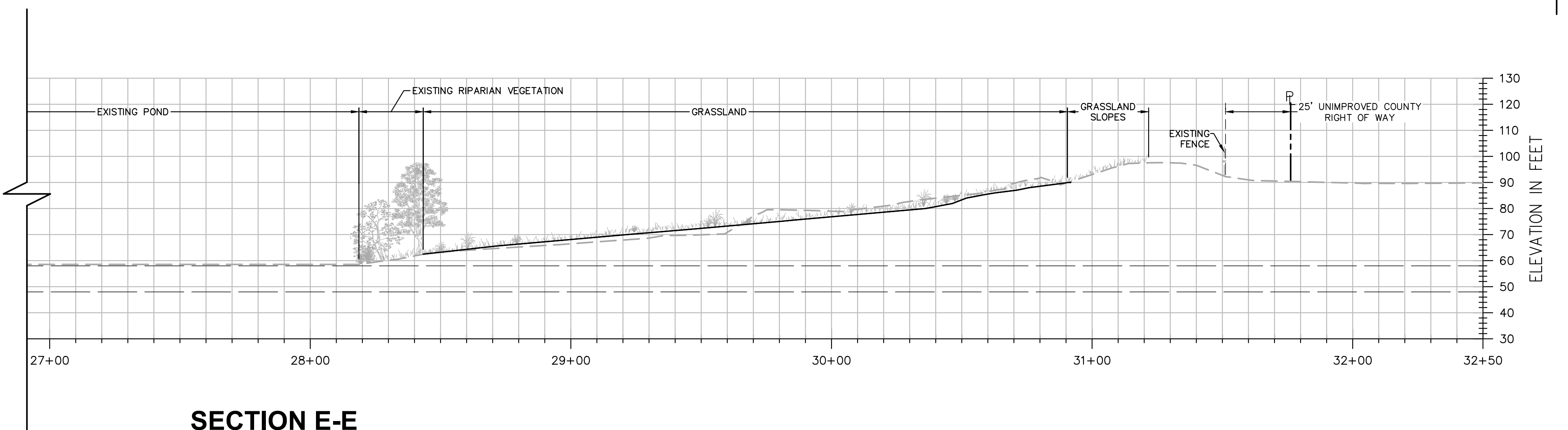
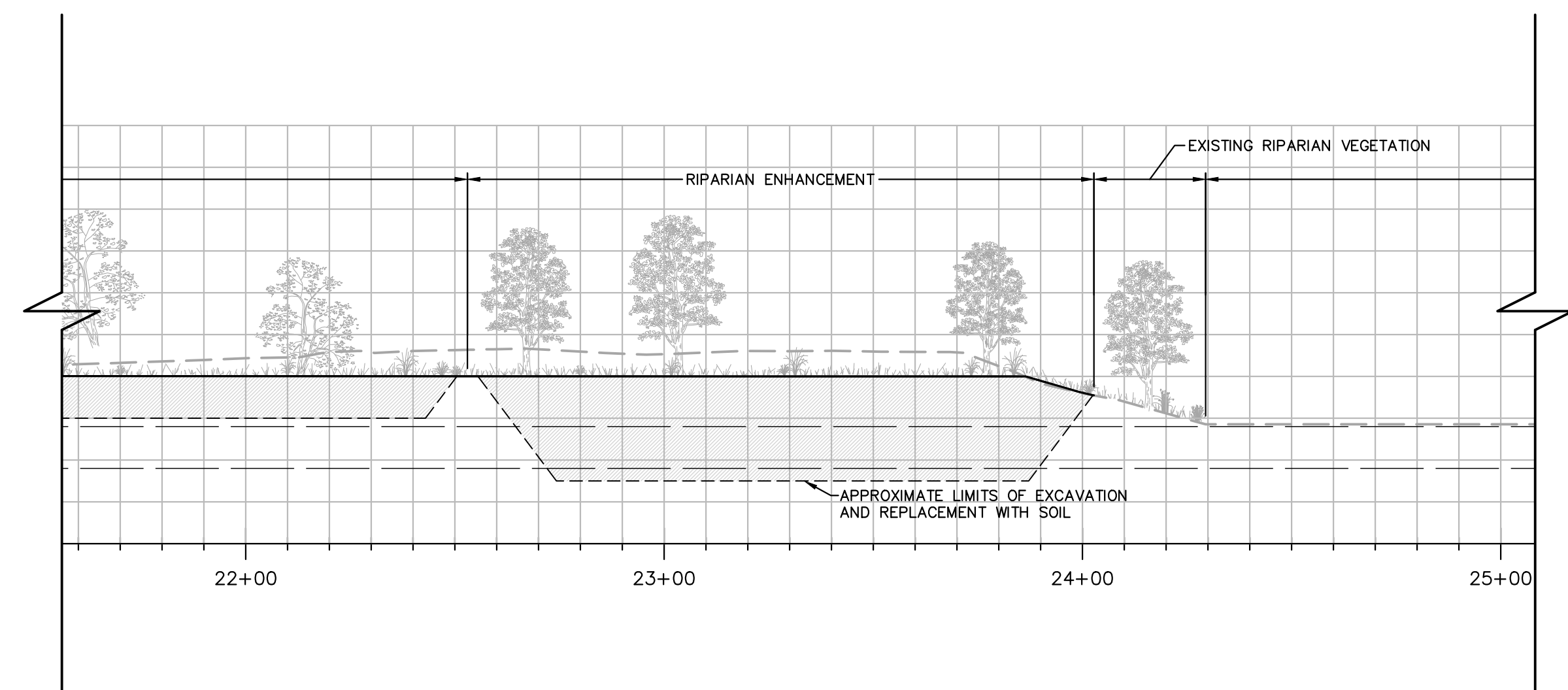
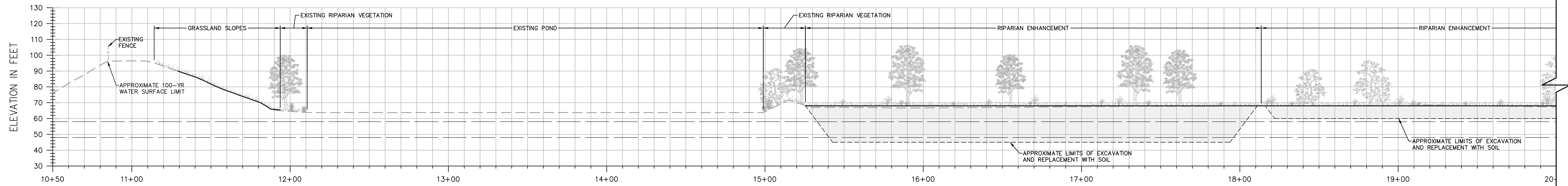


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SCHWARZGRUBER FINAL RECLAMATION PLAN
 (APPLICATION APPROVED NOVEMBER 13, 2012)
CROSS SECTION D-D
 YOLO COUNTY CALIFORNIA

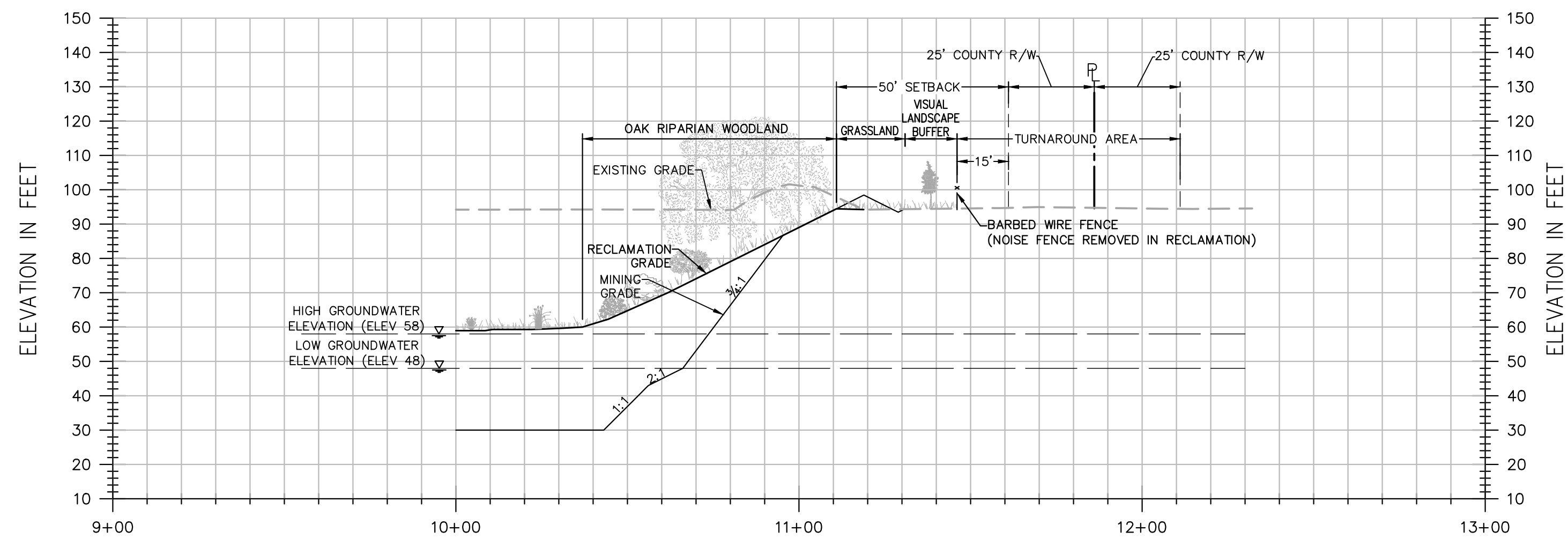
SHEET **R-06** OF **7**
 DATE: 1/11/21
 JOB NO: 1129.10

EXHIBIT A



SECTION E-E

H: 1"=30'
V: 1"=30'



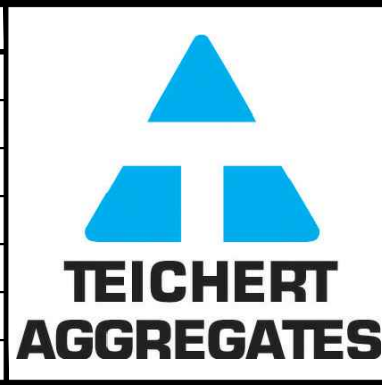
SECTION 1-1

H: 1"=30'
V: 1"=30'

DATE SIGNED: _____
THESE DRAWINGS ARE NOT
CONSIDERED FINAL UNTIL THE
ENGINEER'S SEAL BELOW HAS BEEN
SIGNED AND DATED.



DESIGNED BY	NC	NO.	DATE	REVISIONS	BY	APPD.
DRAWN BY	LE	2	5/3/13	REVISE PER COUNTY COAs	NC	
CHECKED BY	SG					
SCALE	AS SHOWN					



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NOTES:

- ELEVATIONS AND DISTANCES ARE APPROXIMATE. EXISTING GROUND IS BASED ON AERIAL TOPOGRAPHY FLOWN IN APRIL 2010 BY POINT CO. PHOTOGRAMMETRIC SERVICES.
- HIGH AND LOW AVERAGE GROUNDWATER ELEVATIONS BASED ON "GROUNDWATER CONDITIONS IN VICINITY OF PLANNED WET-PIT MINING OPERATIONS-SCHWARZGRUBER PROPERTY", BY LUHDORFF & SCALMANINI CONSULTING ENGINEERS DATED APRIL 25, 2011.
- BOTTOM MINING ELEVATIONS ARE ±10' DEPENDING ON ACTUAL BOTTOM OF GRAVEL DEPTHS.
- PER THE RECLAMATION ORDINANCE, TEICHERT WILL COMPLY WITH SEC. 10.5.510 REGARDING FENCING.

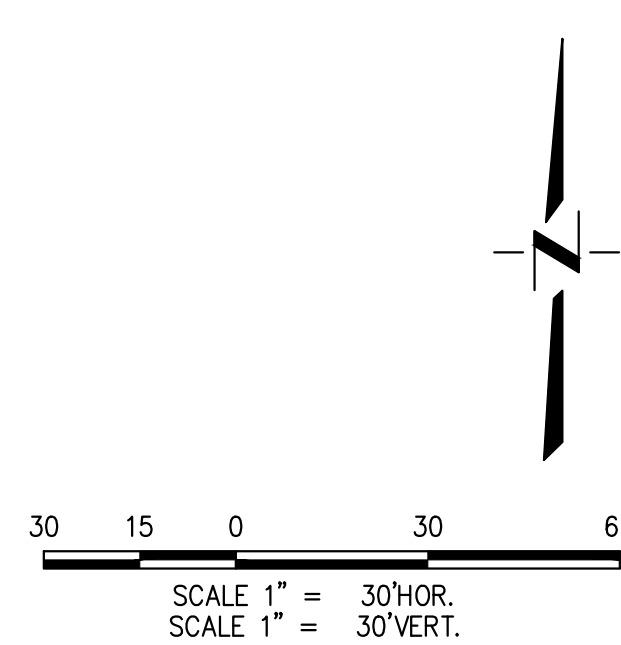


EXHIBIT A

SCHWARZGRUBER FINAL RECLAMATION PLAN
(APPLICATION APPROVED NOVEMBER 13, 2012)
CROSS SECTION E-E

YOLO COUNTY

CALIFORNIA

SHEET
R-07
OF
7
DATE: 1/11/21
JOB NO: 1129.10

S:\Projects\1102\1129 - Teichert Aggregates\1129-10 - Site Mining and Reclamation Plan\SHEETS\1129-10-REC-1007-ASOC-1.dwg - ASOC.E 1/11/21 - PL-2019 Plotted by: NAI