

GRADING PLAN

APN 107-272-005

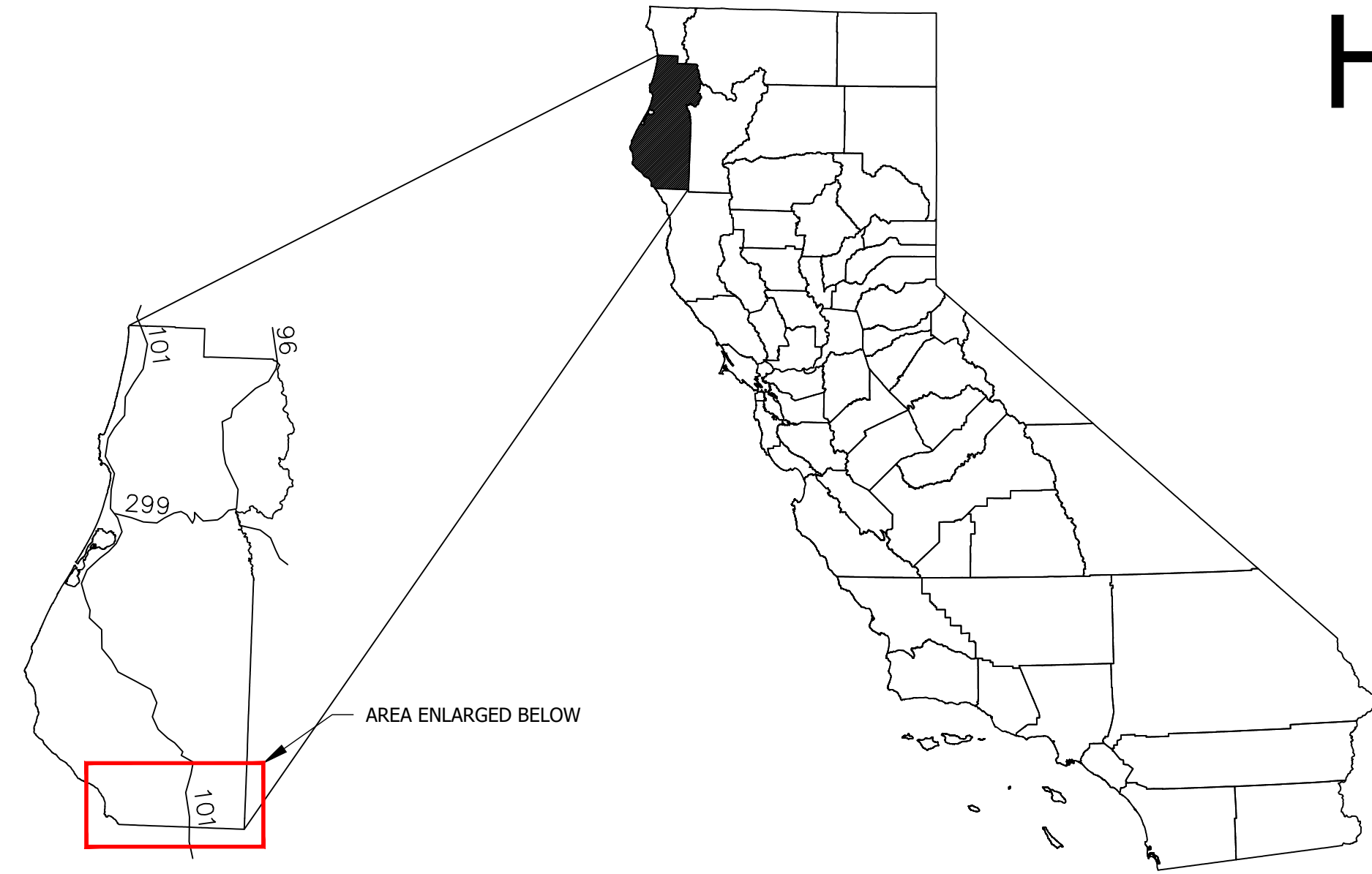
HUMBOLDT COUNTY, CA

APN 107-272-005
GRADING PLAN

HUMBOLDT COUNTY, CA

Stillwater Sciences

2855 TELEGRAPH AVENUE, SUITE 400
BERKELEY, CA 94705 P: (510) 848-8098



HUMBOLDT COUNTY MAP
NTS

CALIFORNIA MAP
NTS

OWNER:
HONEYDEW RANCH LLC
665 OLD HINDLEY RANCH ROAD
HONEYDEW, CA 95545
(707)986-9607
AGRMULTISERVICES@HOTMAIL.COM

AGENT:
JOEL MONSCHKE PE
STILLWATER SCIENCES
850 G STREET, SUITE K
ARCATA, CA 95521
707-496-7075
JMONSCHKE@STILLWATERSCI.COM

ENGINEER'S APPROVAL REQUIRED:

UPON COMPLETION OF THE PROJECT, ENGINEER OF RECORD WILL SUBMIT A LETTER OF CERTIFICATION TO THE HUMBOLDT COUNTY BUILDING DEPARTMENT CONFIRMING THAT THE PROJECT MEETS ALL OF THE REQUIREMENTS DETAILED IN THE APPROVED R2 SOILS REPORT, AS WELL AS THE GRADING, EROSION AND SEDIMENT CONTROL PLANS

POND NOTES:

1. <P> 3,000,000 GALLON POND
2. WATER SOURCE TO FILL NEW POND: RAINWATER CATCHMENT
3. WATER USE FOR PROPOSED POND: IRRIGATION & FIRE SUPPRESSION

GRADING QUANTITIES:

EARTHWORK
POND - 16,000 CY CUT/CY FILL
ROADS/SWALES/FLATS - 14,000 CY CUT/CY FILL
(ALL GRADING BALANCED ON SITE)

IMPORTED ROCK QUANTITIES

3/4" DRAIN ROCK - 100 CY
FRENCH DRAIN - 100 CY
BACKING ROCK (0.5'Ø TO 1'Ø):
SPILLWAY - 20 CY
DRAINAGE SWALE - 20 CY

TREE REMOVAL
NO TREES TO BE REMOVED

ADDITIONAL NOTES:

1. PARCEL EXTENT TAKEN FROM HUMBOLDT COUNTY GIS AND ASSESSOR'S PARCEL MAPS; MODIFIED BASED ON FIELD CONDITIONS; APPROXIMATE ONLY.
2. SLOPE DIRECTION AND GRADIENT CAN BE DETERMINED USING SCALE BAR AND UNDERLYING USGS TOPO MAP (40' CONTOUR INTERVALS); SLOPES TYPICALLY RANGE FROM 0% TO 40%.
3. NO SCHOOLS, BUS STOPS, PLACES OF WORSHIP, PUBLIC PARKS, OR TRIBAL CULTURAL RESOURCES WITHIN 600' OF PROPERTY.
4. ALL ROADS AND PARKING AREAS SURFACED WITH GRAVEL. ~16' - 20' WIDTH.

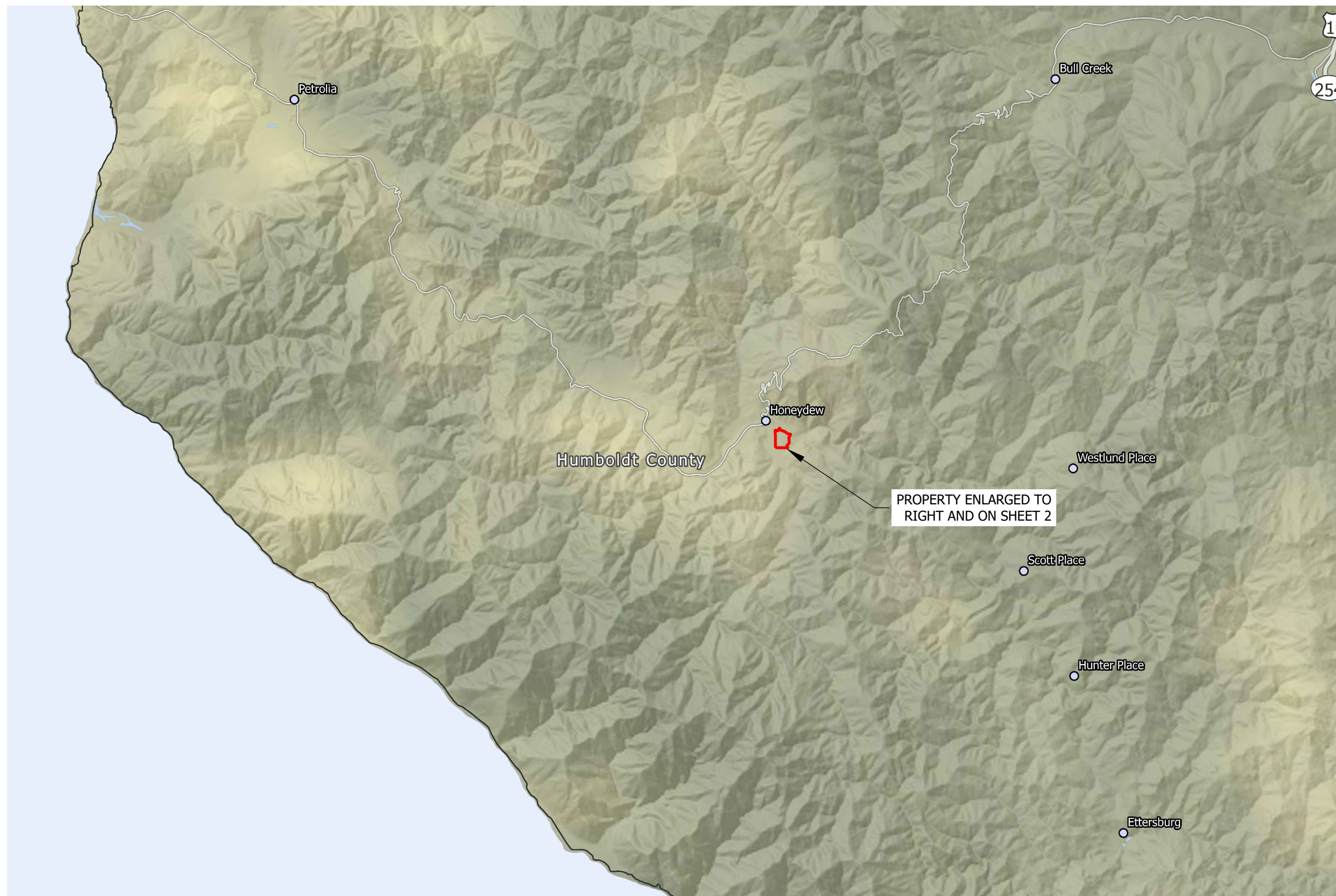
SYMBOL AND ABBREVIATION KEY:

- 1 ○ 12 ○ → DETAIL NUMBER
- 1 ○ 12 ○ → SHEET NUMBER
- <P> = PROPOSED
- <E> = EXISTING

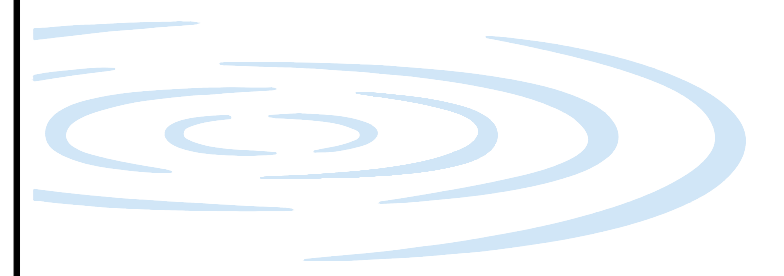
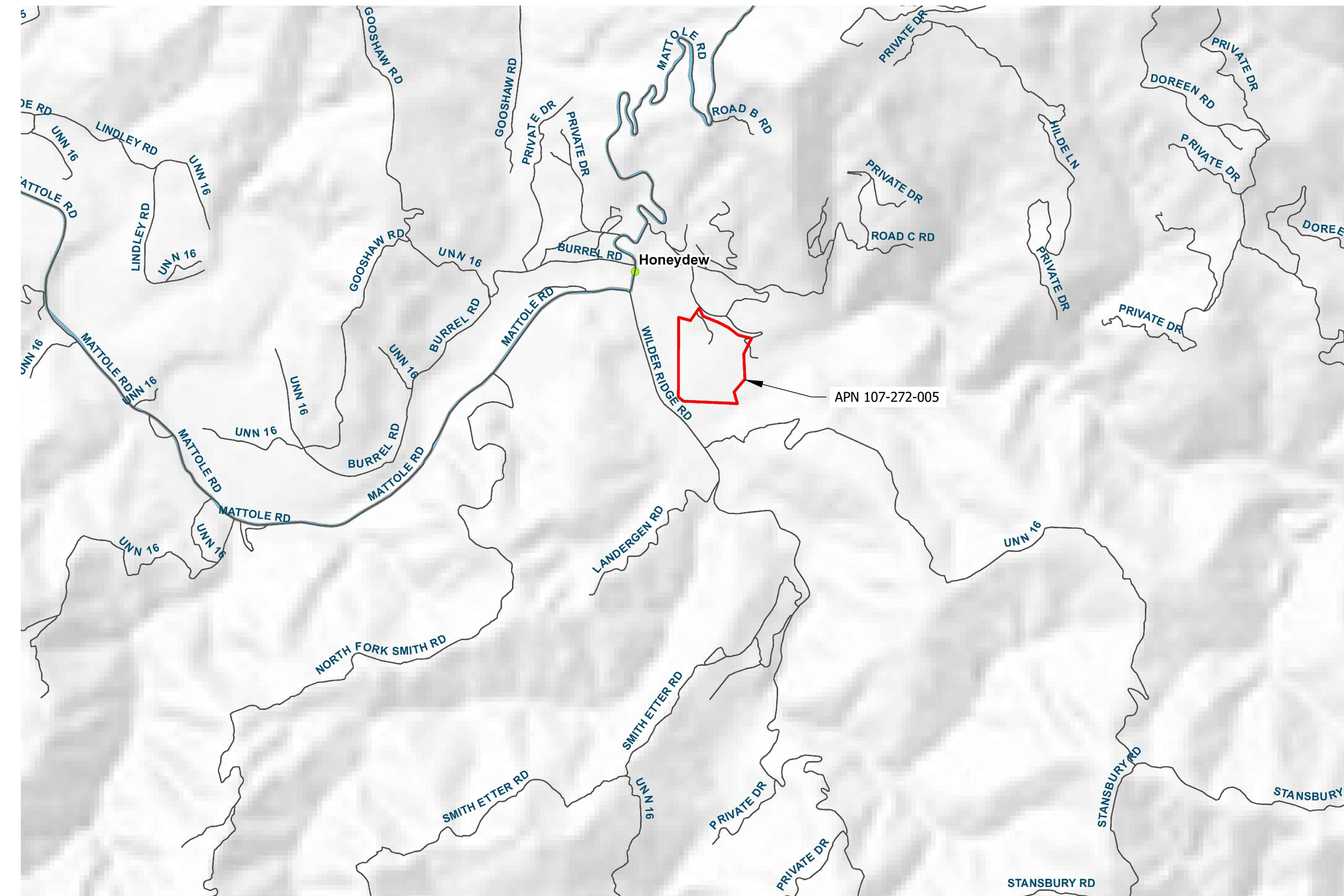
Sheet List Table	
Sheet Number	Sheet Title
1	TITLE SHEET
2	SITE OVERVIEW
3	EXISTING & PROPOSED SITE OVERVIEW
4	POND GRADING PLAN & SECTION VIEWS
5	ROAD GRADING PLAN
6	ROAD GRADING PROFILE VIEWS
7	SWALE GRADING PLAN
8	SWALE GRADING PROFILE VIEWS
9	CULTIVATION AREA GRADING
10	CULTIVATION AREA SECTIONS 1
11	CULTIVATION AREA SECTIONS 2
12	DETAILS



REGIONAL LOCATION MAP



VICINITY LOCATION MAP



PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

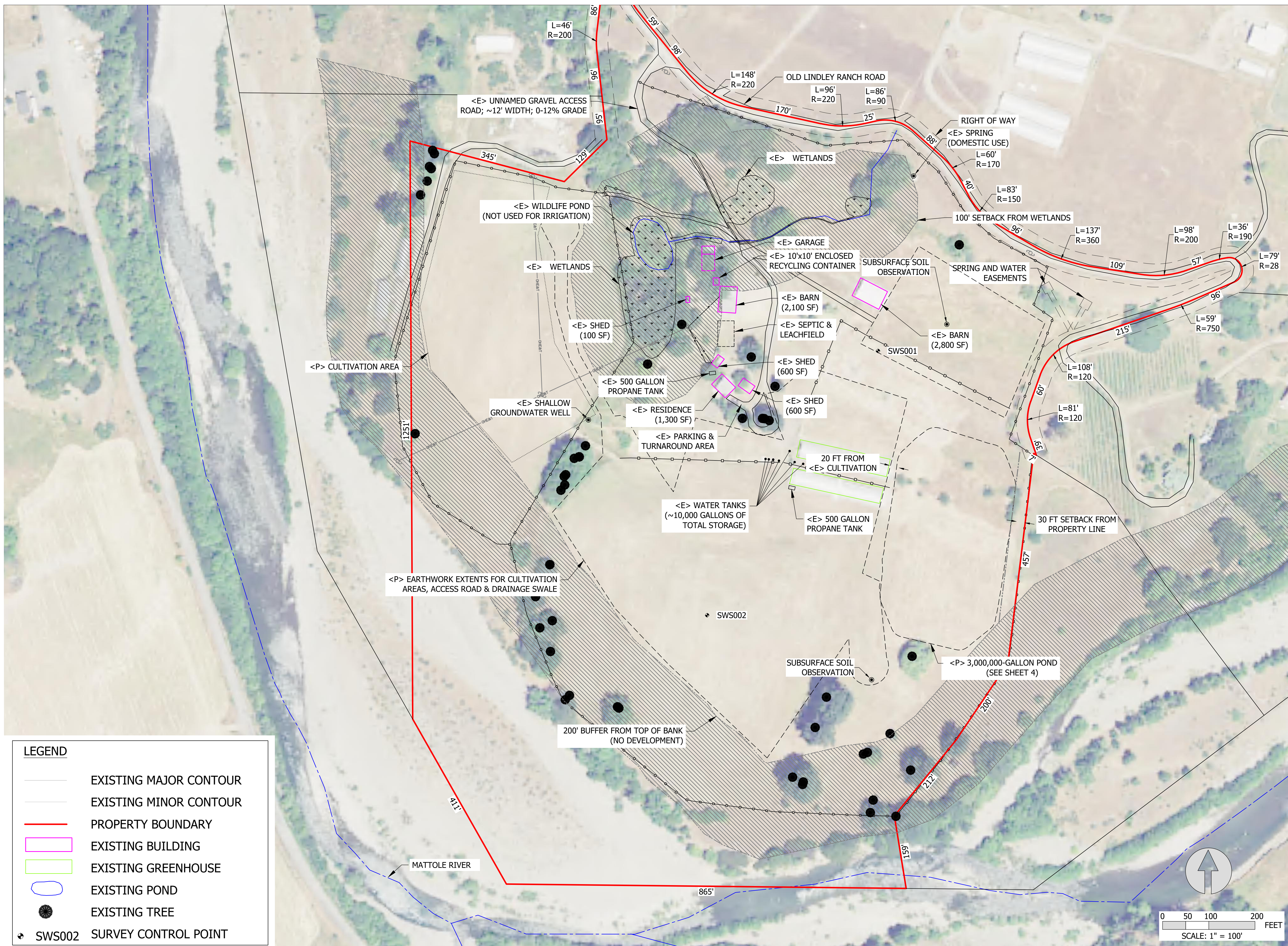
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DRAWN: CL
CHECKED: JM
APPROVED: JM



TITLE SHEET

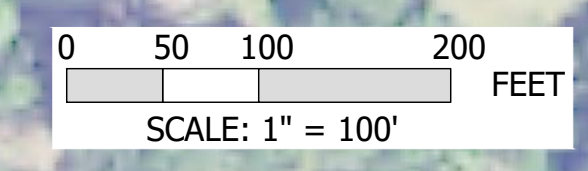
SHEET 1 OF 12

P:\DATA\S418.XYZ - MITIGATION\ACAD\546.42 - HONEYDEW\ACAD\1 - TITLE - DETAILS\546.42 - COVER - DETAILS.DWG PLOT DATE: 2/9/2018 PLOT STYLE: ----- IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY



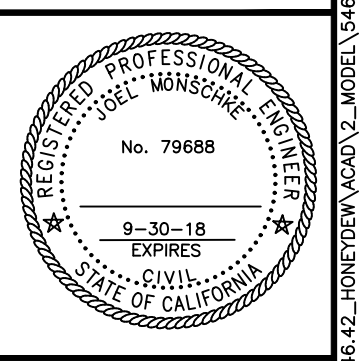
LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING GREENHOUSE
- EXISTING POND
- EXISTING TREE
- SWS002 SURVEY CONTROL POINT



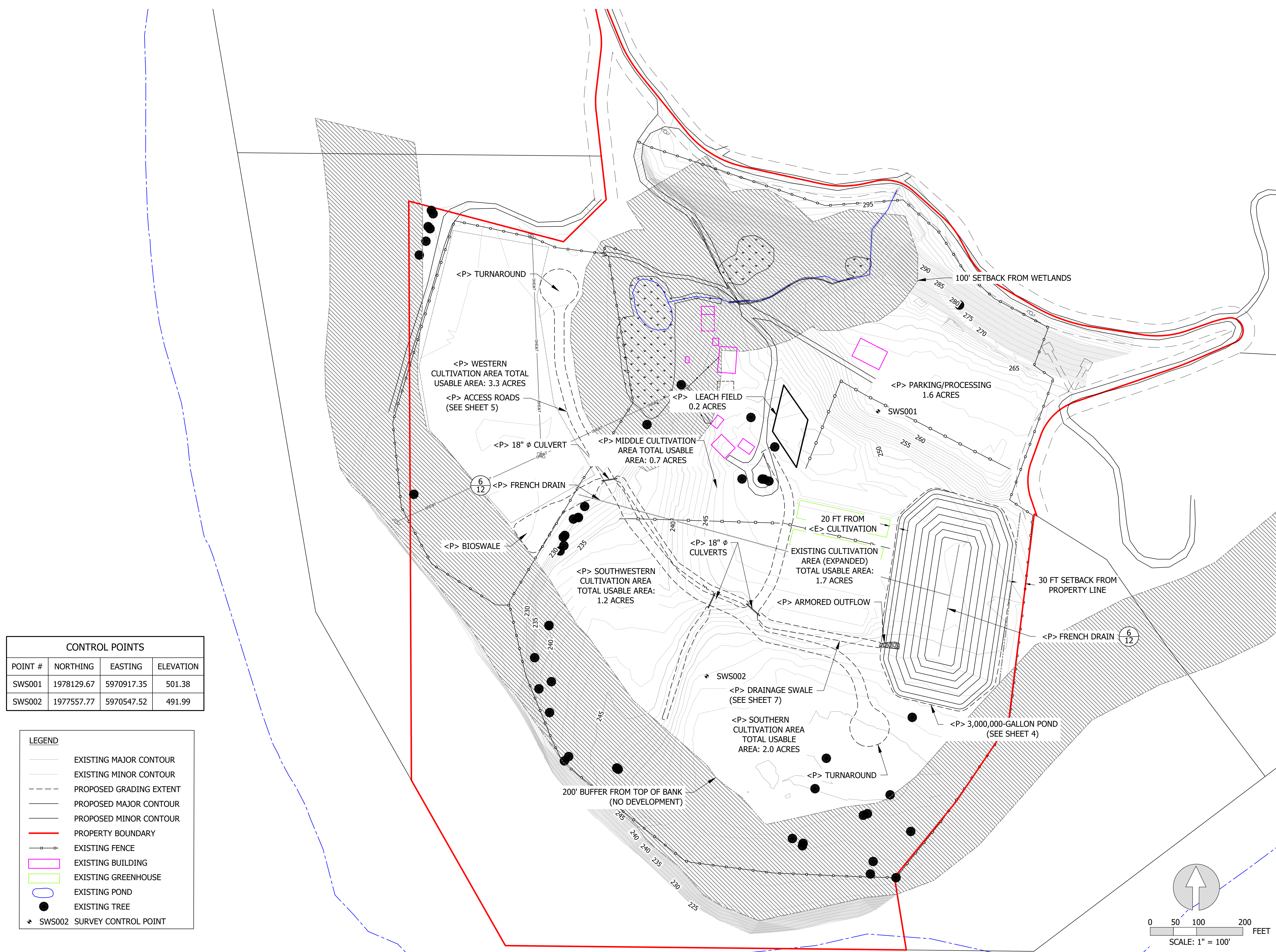
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SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



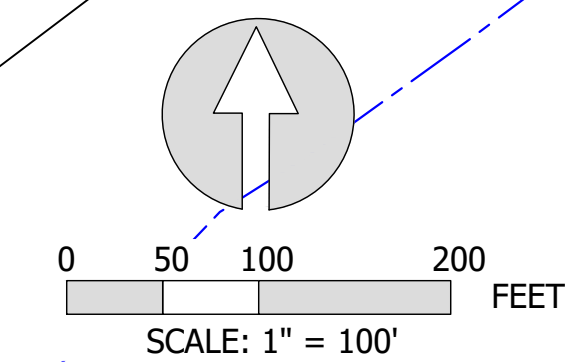
SITE OVERVIEW

LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: -----
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 S:\DATA\546.42 - MATTOLE RIVER\546.42 - MATTOLE RIVER\546.42 - MODEL.DWG



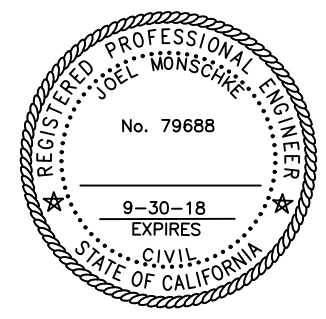
CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
SWS001	1978129.67	5970917.35	501.38
SWS002	1977557.77	5970547.52	491.99

LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED GRADING EXTENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPERTY BOUNDARY
	EXISTING FENCE
	EXISTING BUILDING
	EXISTING GREENHOUSE
	EXISTING POND
	EXISTING TREE
	SWS002 SURVEY CONTROL POINT



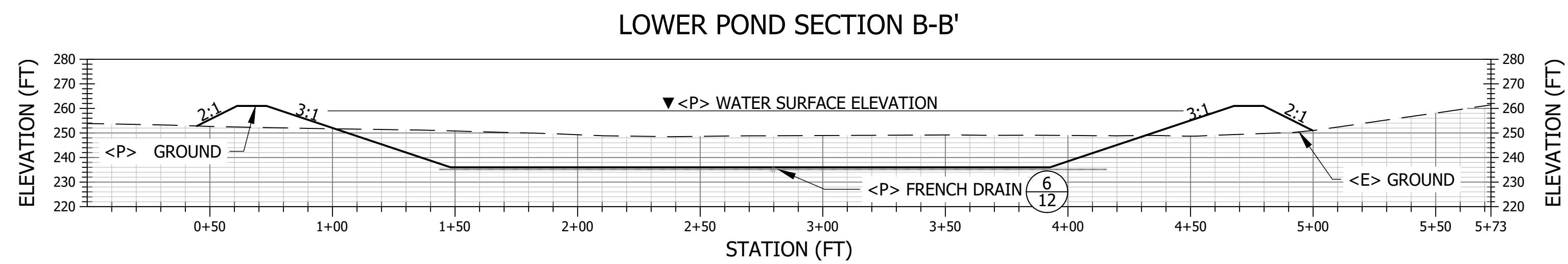
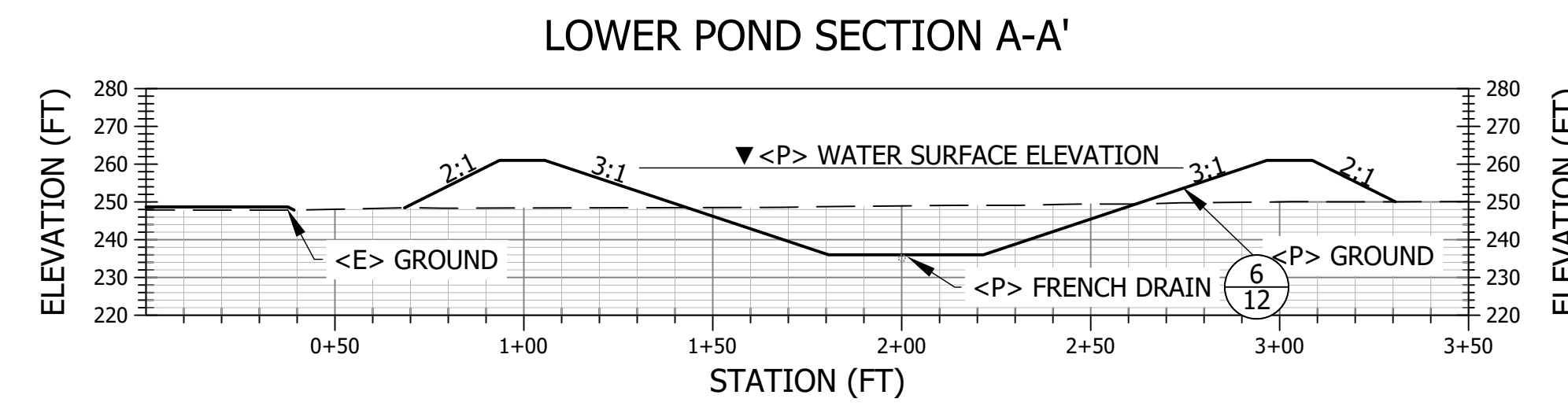
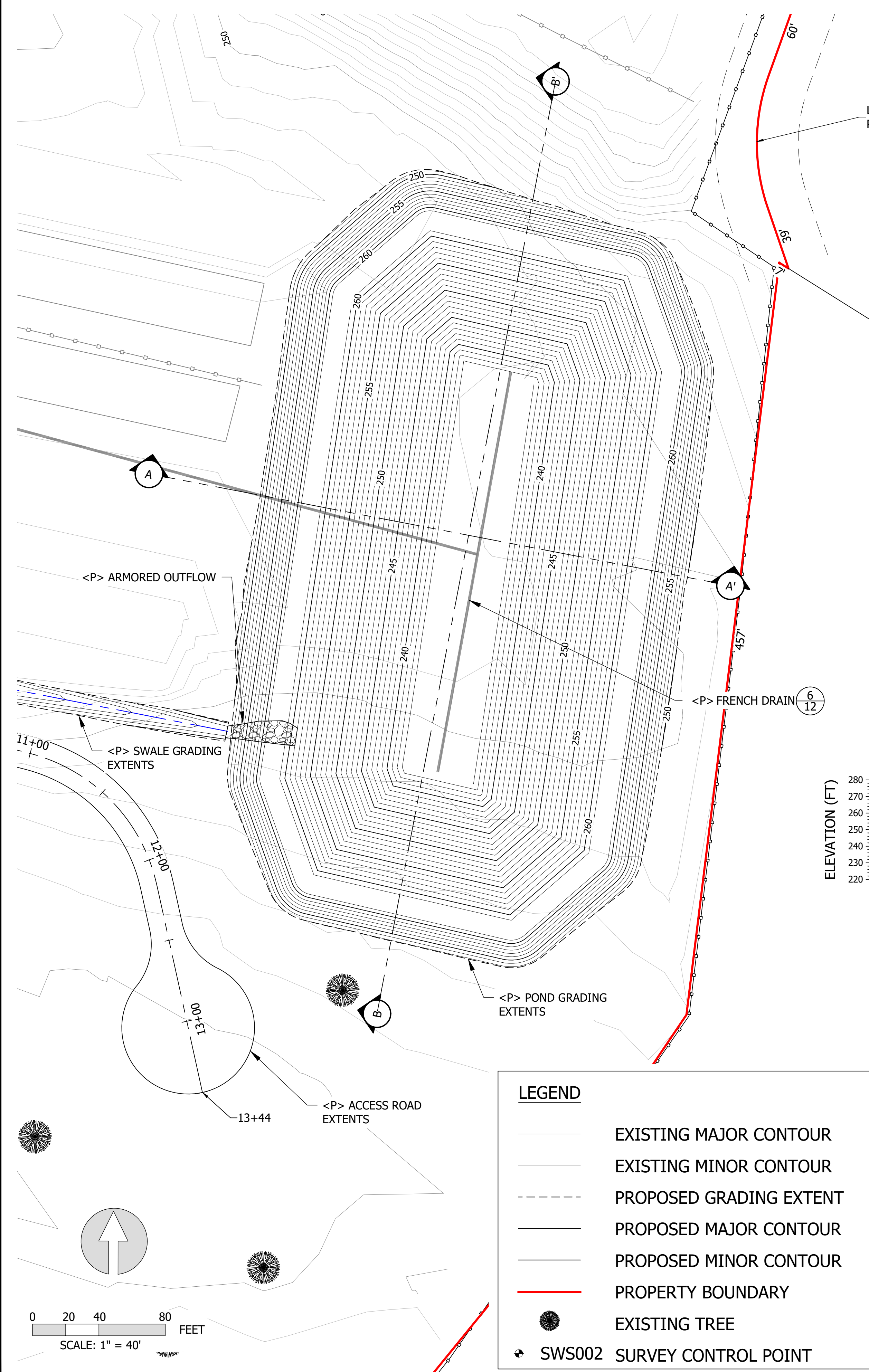
PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
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APPROVED: JM

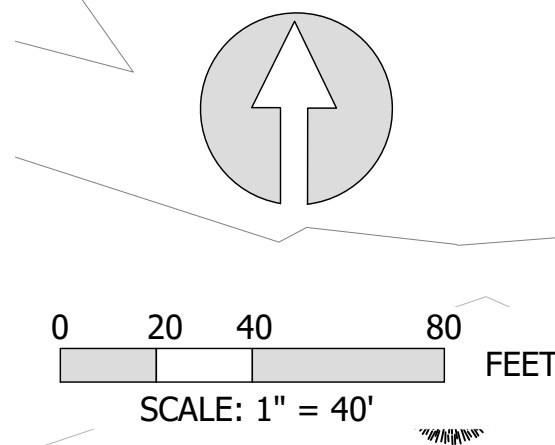


EXISTING & PROPOSED
SITE OVERVIEW

LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: ----- IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY

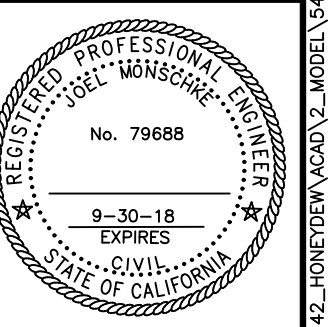


LEGEND	
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED GRADING EXTENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPERTY BOUNDARY
	EXISTING TREE
	SWS002 SURVEY CONTROL POINT



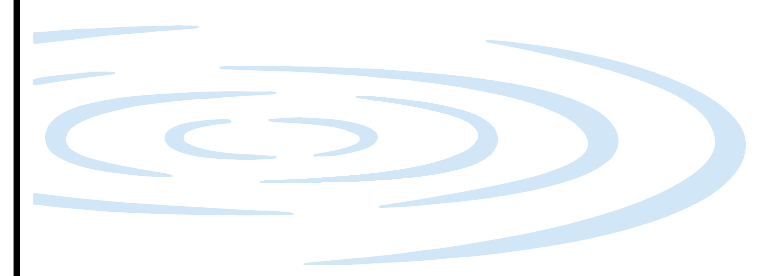
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SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



**POND GRADING PLAN &
SECTION VIEWS**

LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: ----- IF BAK DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY

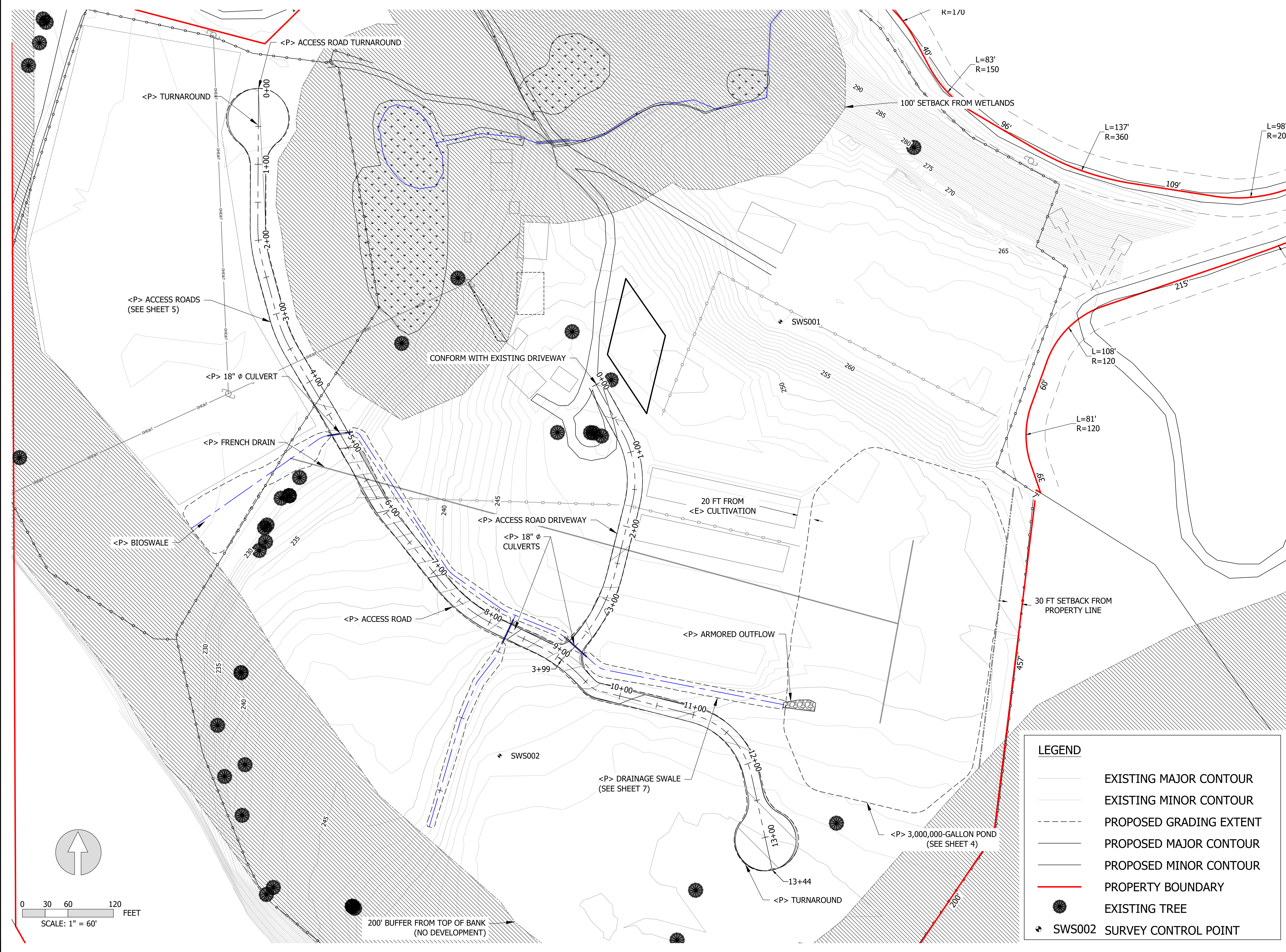


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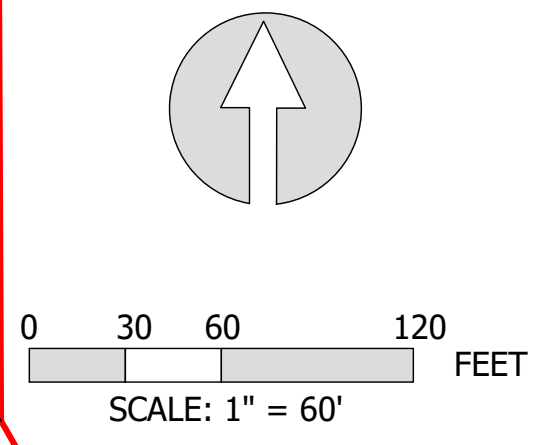


ROAD GRADING PLAN

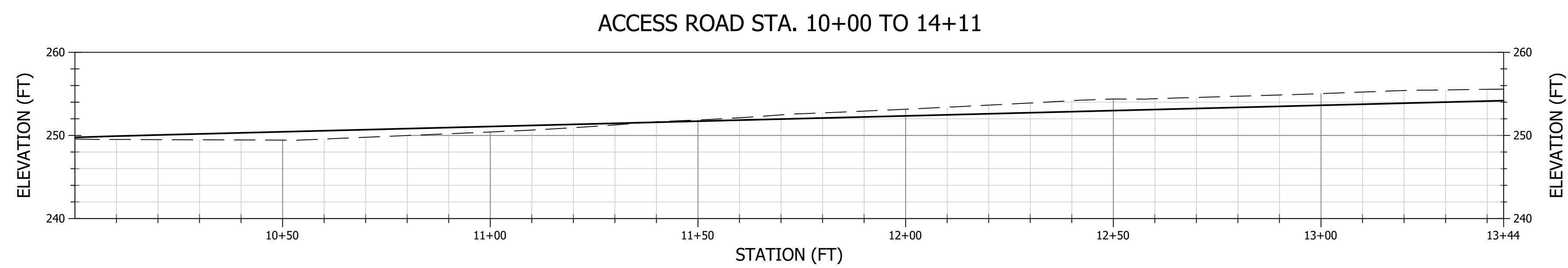
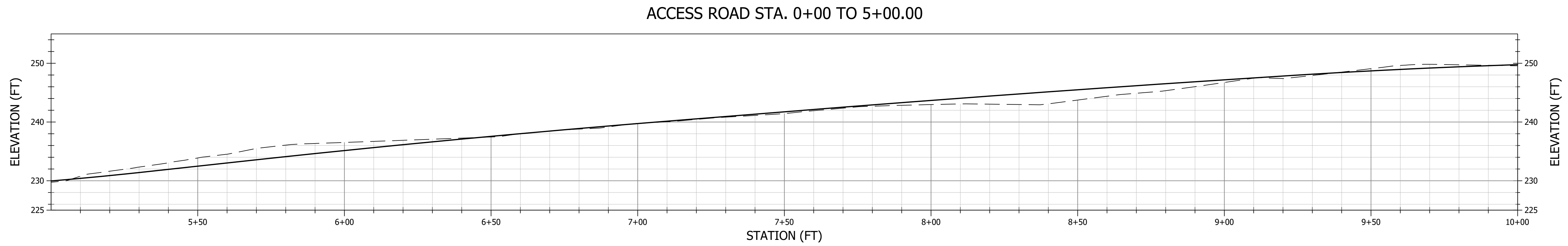
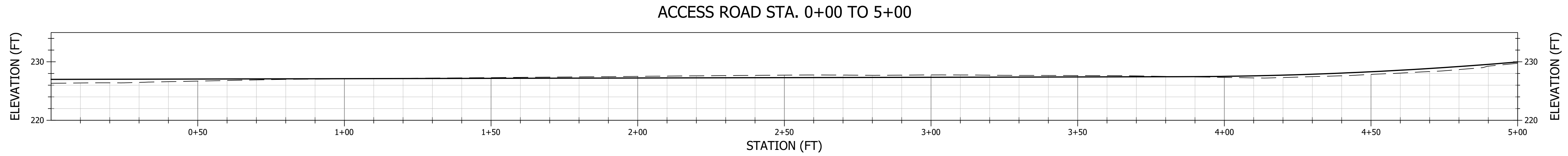
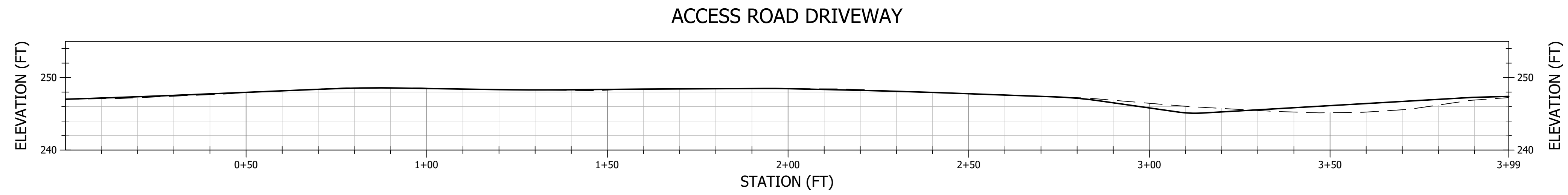


LEGEND

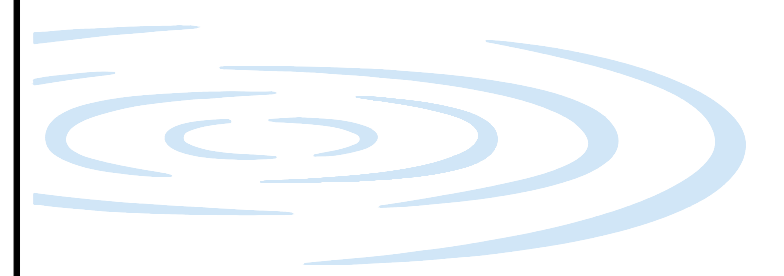
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED GRADING EXTENT
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPERTY BOUNDARY
	EXISTING TREE
	SWS002 SURVEY CONTROL POINT



LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: -----
 C:\APP\448\SX - MITIGATION\ACAD\546.42 - HOME\DETA\ACAD\2 - JOEL.MONSCHKE\546.42_MODEL.DWG



LEGEND	
---	EXISTING GROUND PROFILE
—	PROPOSED GROUND PROFILE



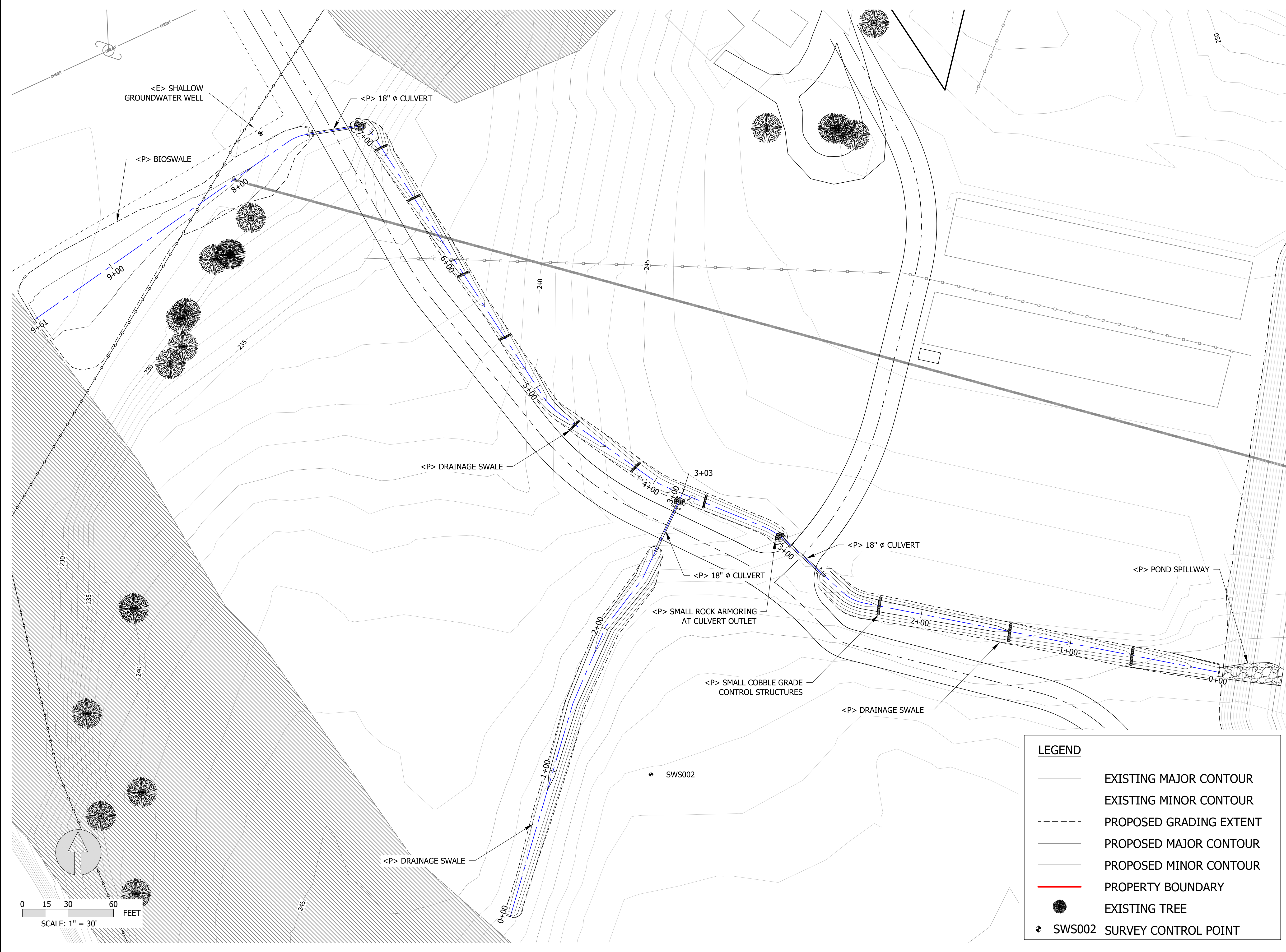
PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



**ROAD GRADING PROFILE
VIEWS**

LAST SAVED: 2/9/2018 10:00:00 AM PLOT DATE: 2/9/2018 PLOT STYLE: ---
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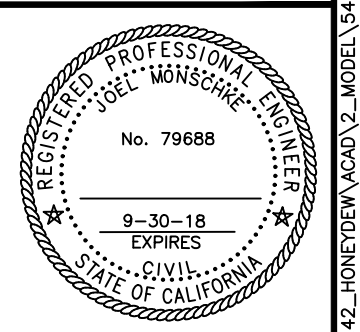


LEGEND

- EXISTING MAJOR CONTOUR
- - - EXISTING MINOR CONTOUR
- · - · - · PROPOSED GRADING EXTENT
- · - · - · PROPOSED MAJOR CONTOUR
- · - · - · PROPOSED MINOR CONTOUR
- PROPERTY BOUNDARY
- EXISTING TREE
- ◆ SWS002 SURVEY CONTROL POINT

PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM

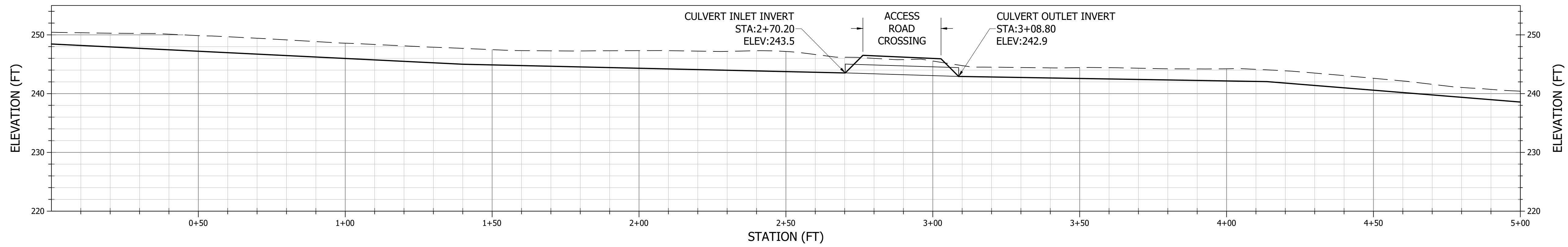


SWALE GRADING PLAN

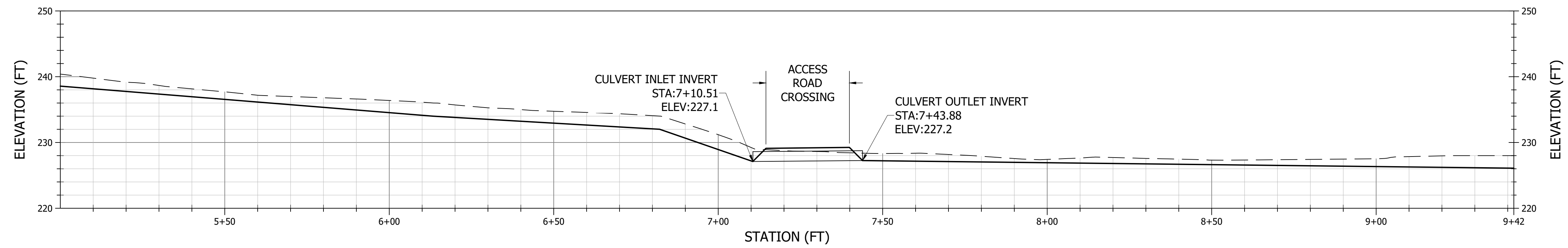
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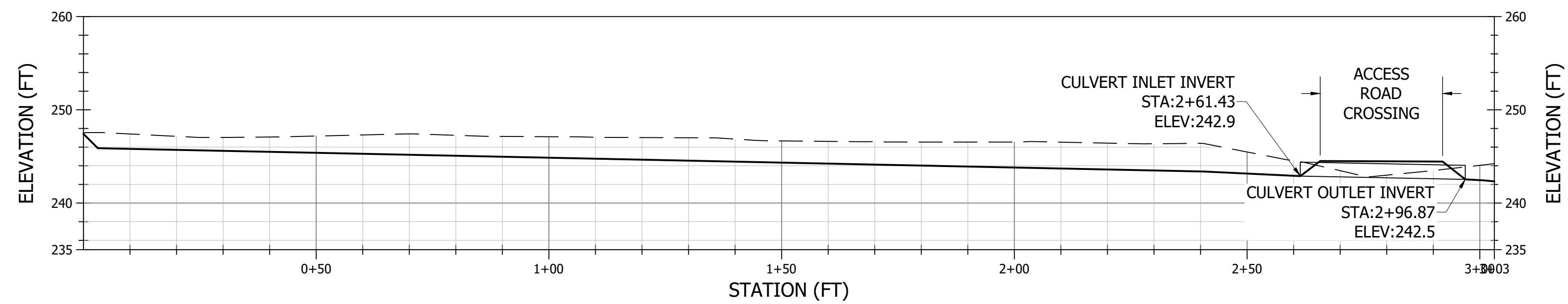
DRAINAGE SWALE STA. 0+00 TO 5+00.00



DRAINAGE SWALE STA. 5+00 TO 9+42



SWALE



LEGEND	
---	EXISTING GROUND PROFILE
—	PROPOSED GROUND PROFILE

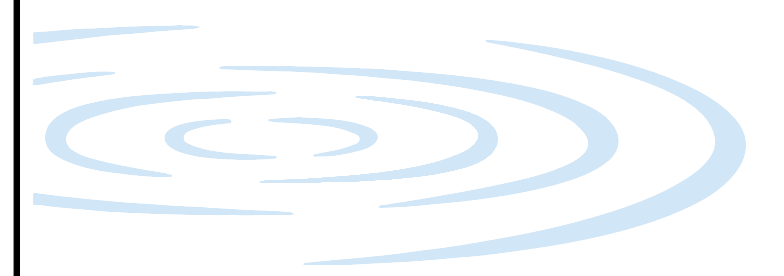
PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



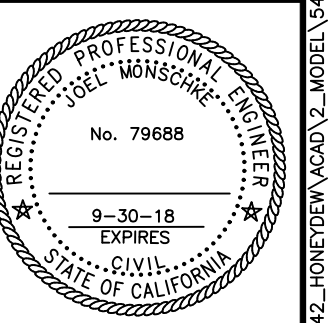
SWALE GRADING PROFILE
VIEWS

LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: --- IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - ADJUST ACCORDINGLY

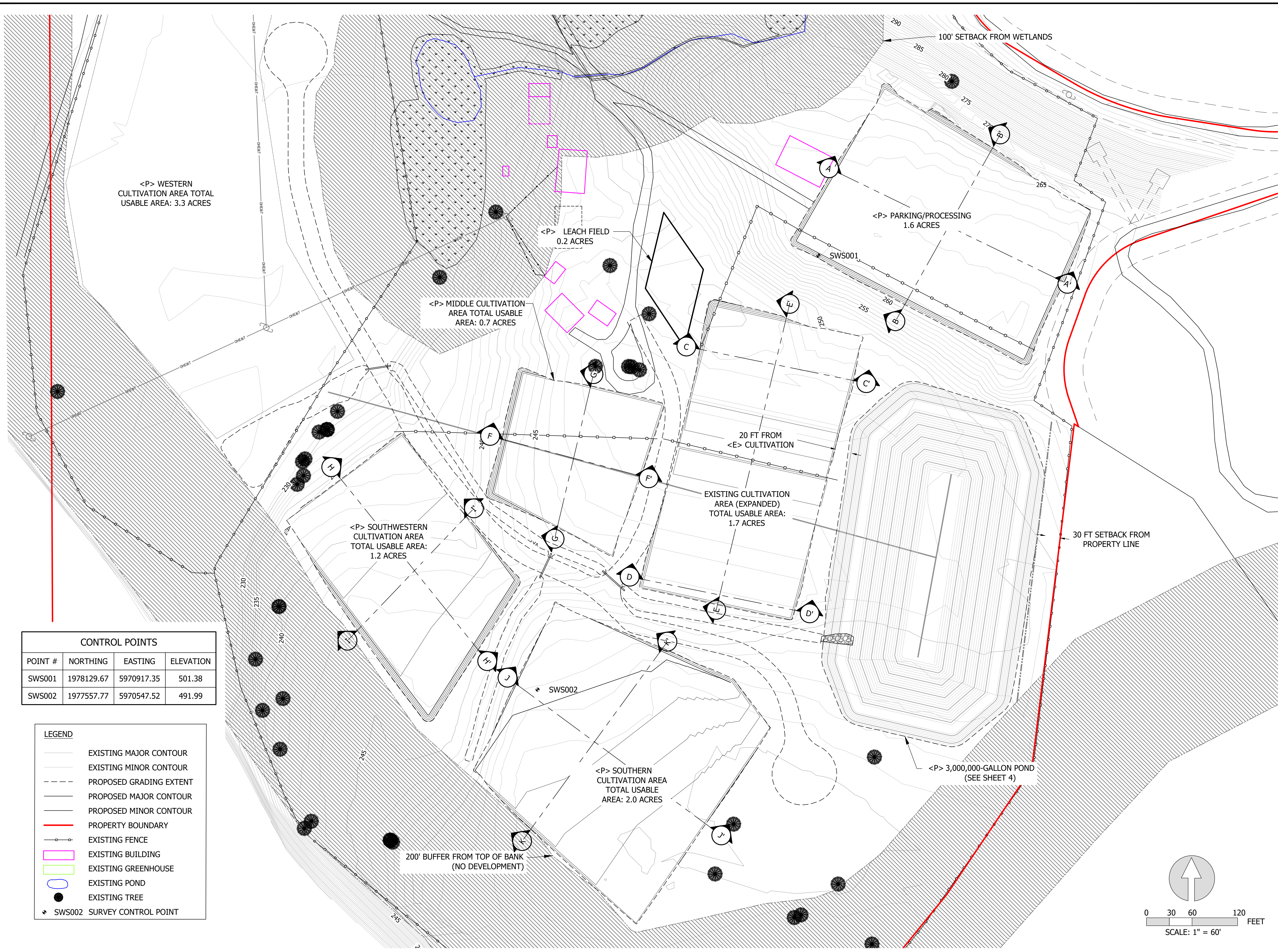


PROJECT NUMBER: 546.42
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DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



**CULTIVATION AREA
GRADING**



<P> WESTERN
CULTIVATION AREA TOTAL
USABLE AREA: 3.3 ACRES

<P> LEACH FIELD
0.2 ACRES

<P> MIDDLE CULTIVATION
AREA TOTAL USABLE
AREA: 0.7 ACRES

<P> PARKING/PROCESSING
1.6 ACRES

<P> SOUTHWESTERN
CULTIVATION AREA
TOTAL USABLE AREA:
1.2 ACRES

EXISTING CULTIVATION
AREA (EXPANDED)
TOTAL USABLE AREA:
1.7 ACRES

<P> SOUTHERN
CULTIVATION AREA
TOTAL USABLE
AREA: 2.0 ACRES

<P> 3,000,000-GALLON POND
(SEE SHEET 4)

200' BUFFER FROM TOP OF BANK
(NO DEVELOPMENT)

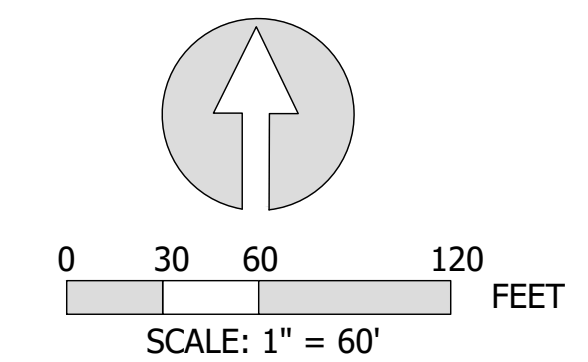
30 FT SETBACK FROM
PROPERTY LINE

100' SETBACK FROM WETLANDS

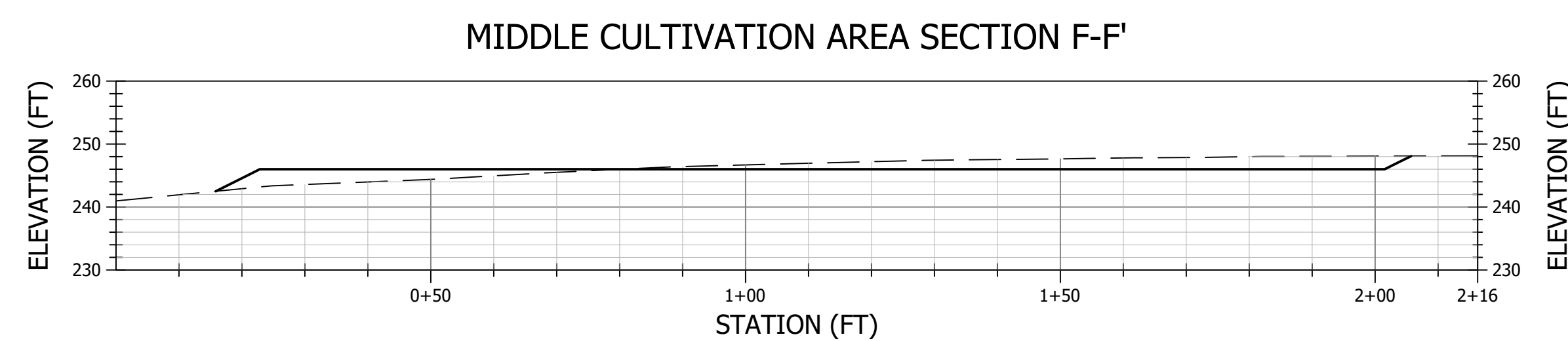
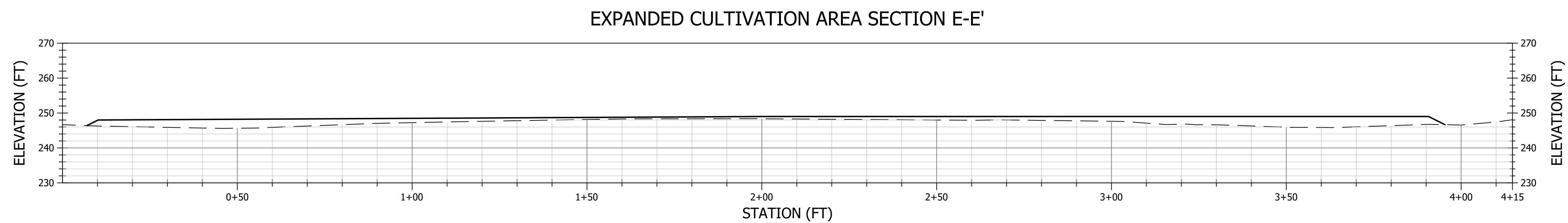
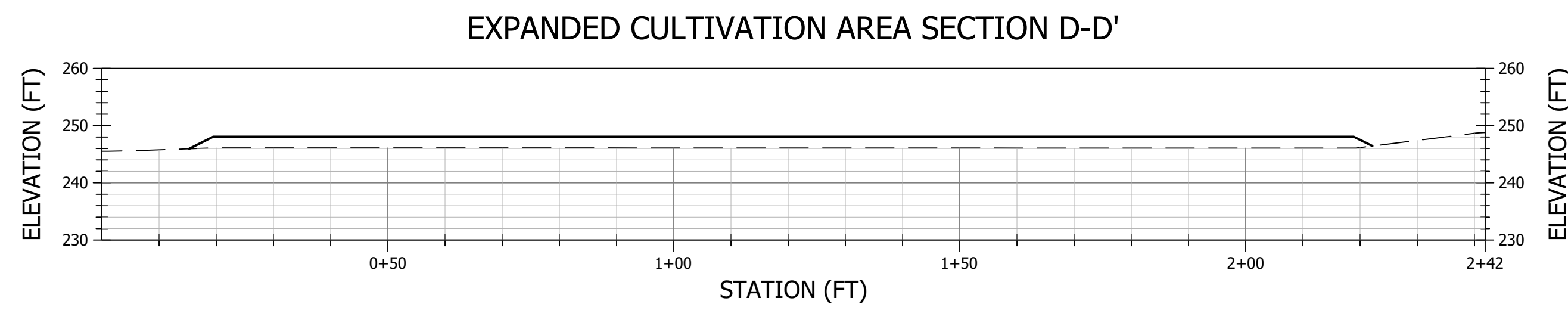
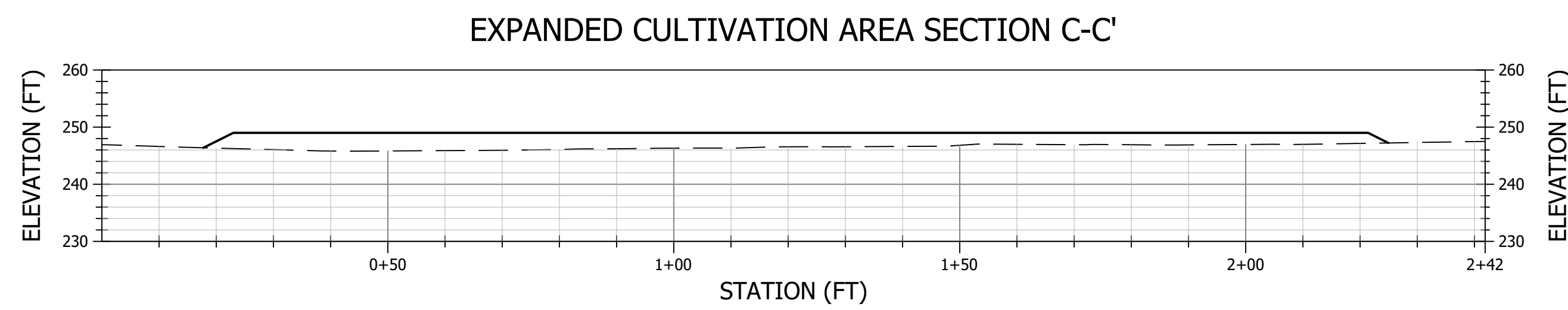
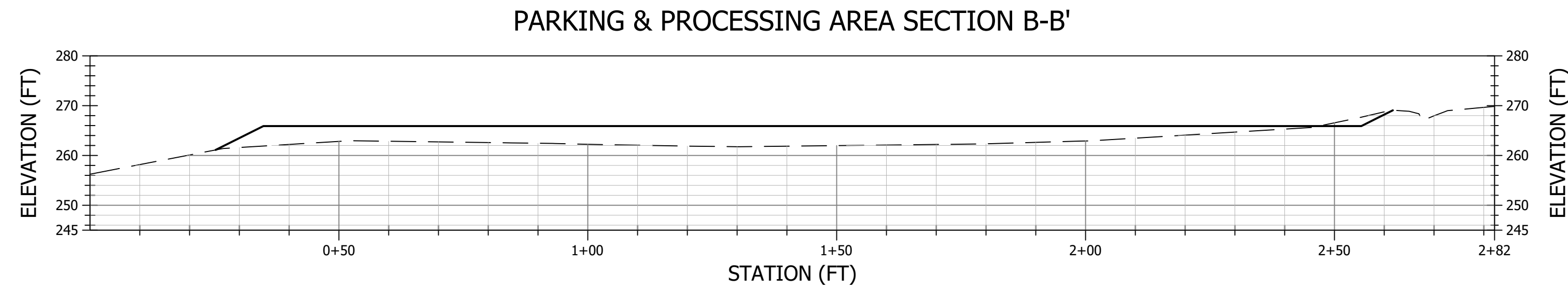
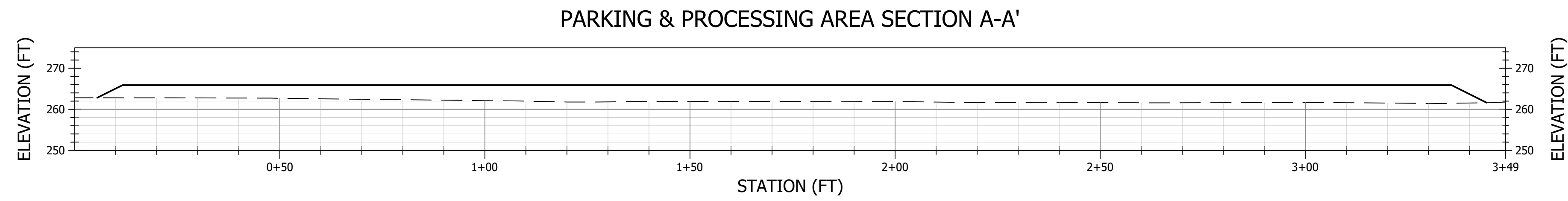
20 FT FROM
<E> CULTIVATION

CONTROL POINTS			
POINT #	NORTHING	EASTING	ELEVATION
SWS001	1978129.67	5970917.35	501.38
SWS002	1977557.77	5970547.52	491.99

- LEGEND**
- EXISTING MAJOR CONTOUR
 - EXISTING MINOR CONTOUR
 - - - PROPOSED GRADING EXTENT
 - PROPOSED MAJOR CONTOUR
 - PROPOSED MINOR CONTOUR
 - PROPERTY BOUNDARY
 - EXISTING FENCE
 - EXISTING BUILDING
 - EXISTING GREENHOUSE
 - EXISTING POND
 - EXISTING TREE
 - ◆ SWS002 SURVEY CONTROL POINT



LAST SAVED: 2/9/2018 PLOT DATE: 2/9/2018 PLOT STYLE: -----
 IF BAR DOES NOT MEASURE 1" DRAWING IS NOT TO SCALE - QUOTE ACCURACY:



LEGEND	
	EXISTING GROUND PROFILE
	PROPOSED GROUND PROFILE

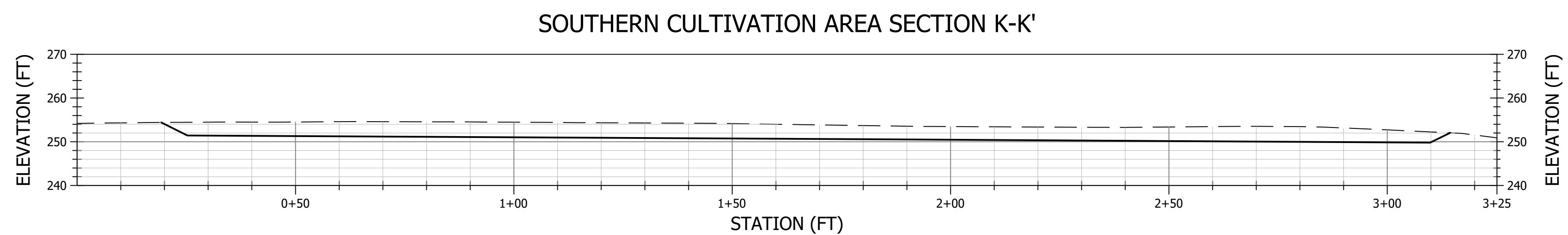
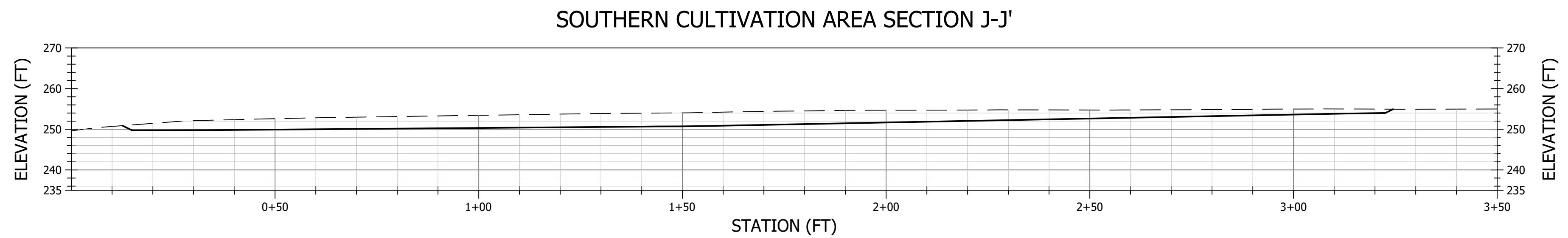
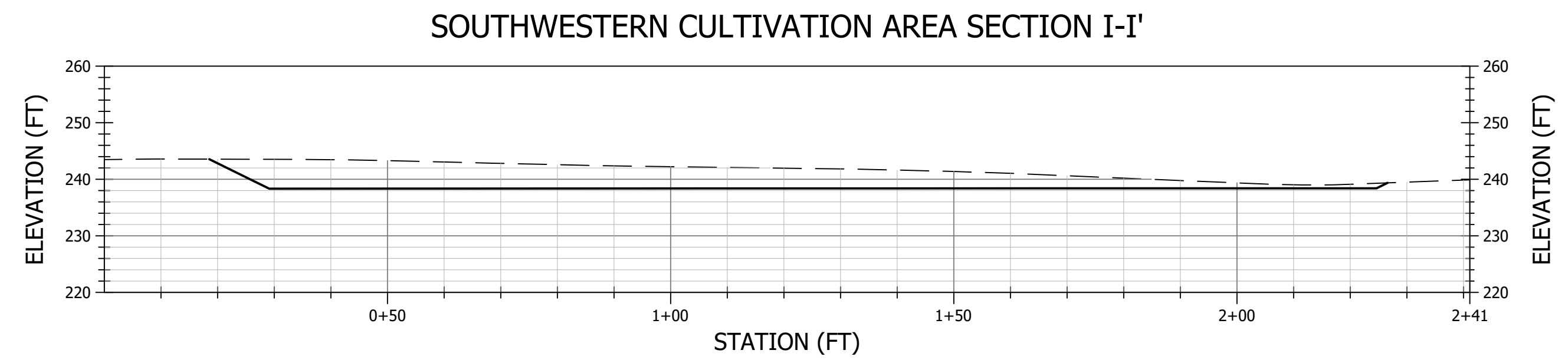
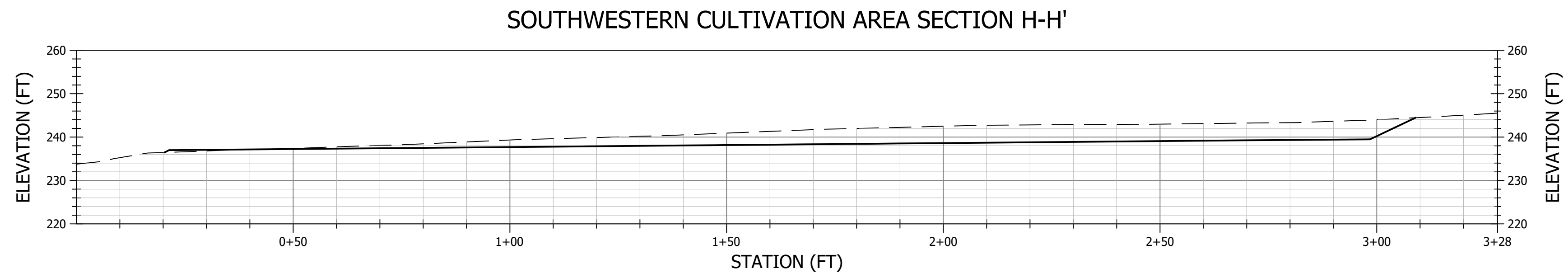
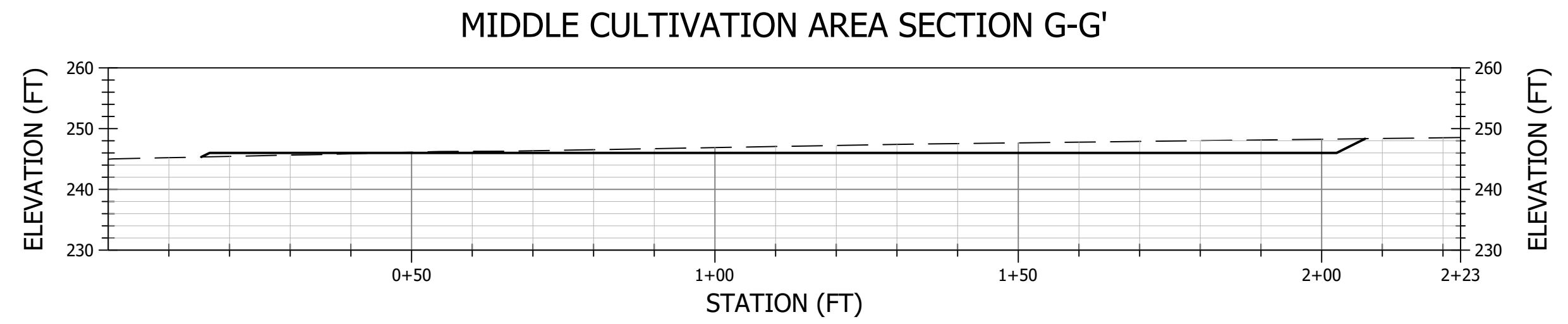
PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM



CULTIVATION AREA
SECTIONS 1

LAST SAVED: 2/9/2018 10:00:00 AM PLOT DATE: 2/9/2018 PLOT STYLE: s10.dwg



LEGEND	
---	EXISTING GROUND PROFILE
—	PROPOSED GROUND PROFILE

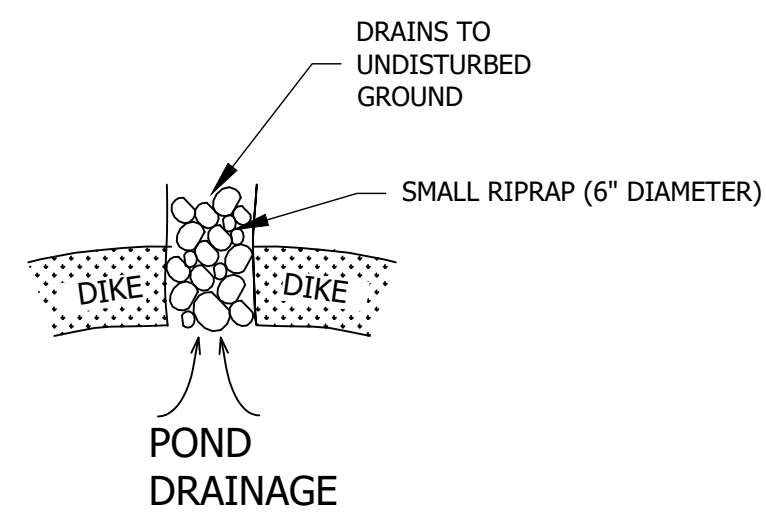
PROJECT NUMBER: 546.42
SCALE: AS NOTED
DATE: 2/8/2018

DESIGN: CL
DRAWN: CL
CHECKED: JM
APPROVED: JM

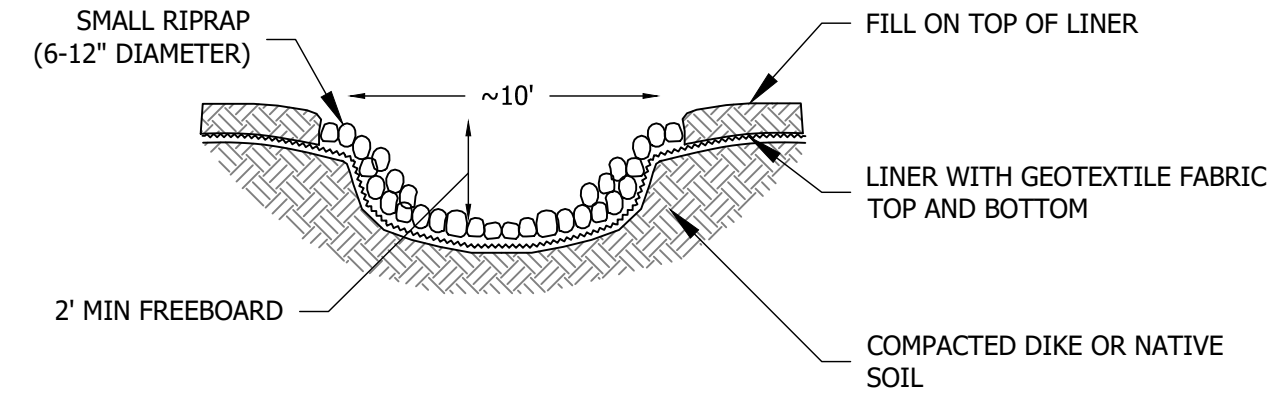


CULTIVATION AREA
SECTIONS 2

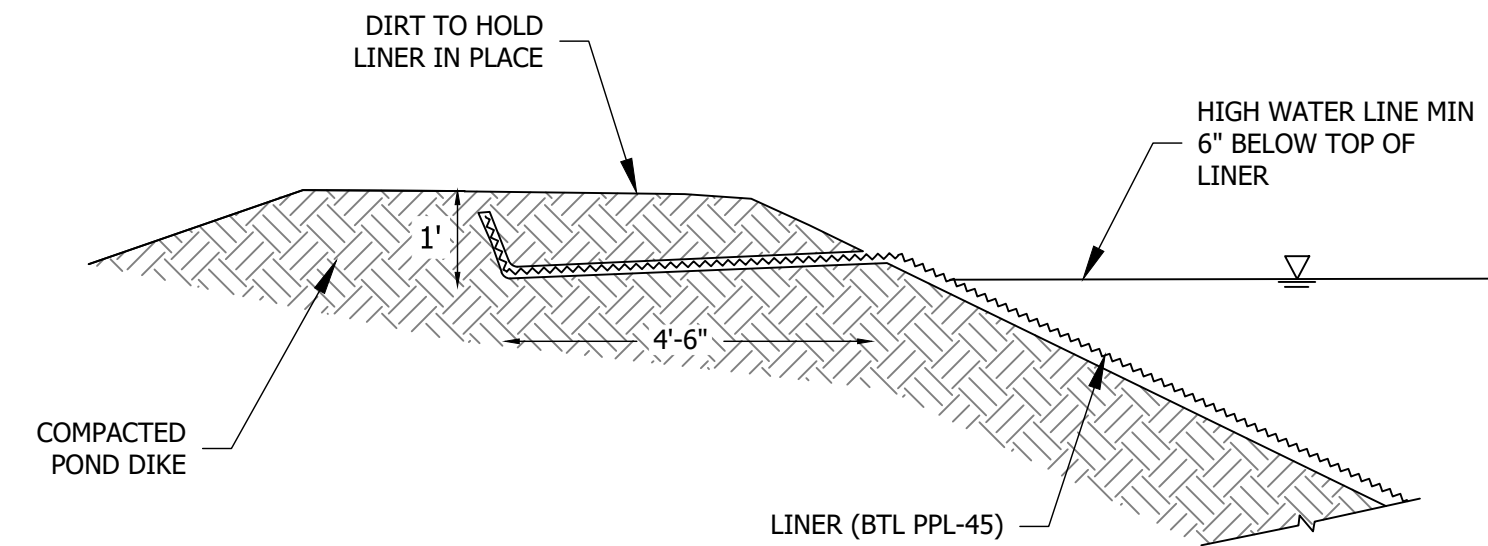
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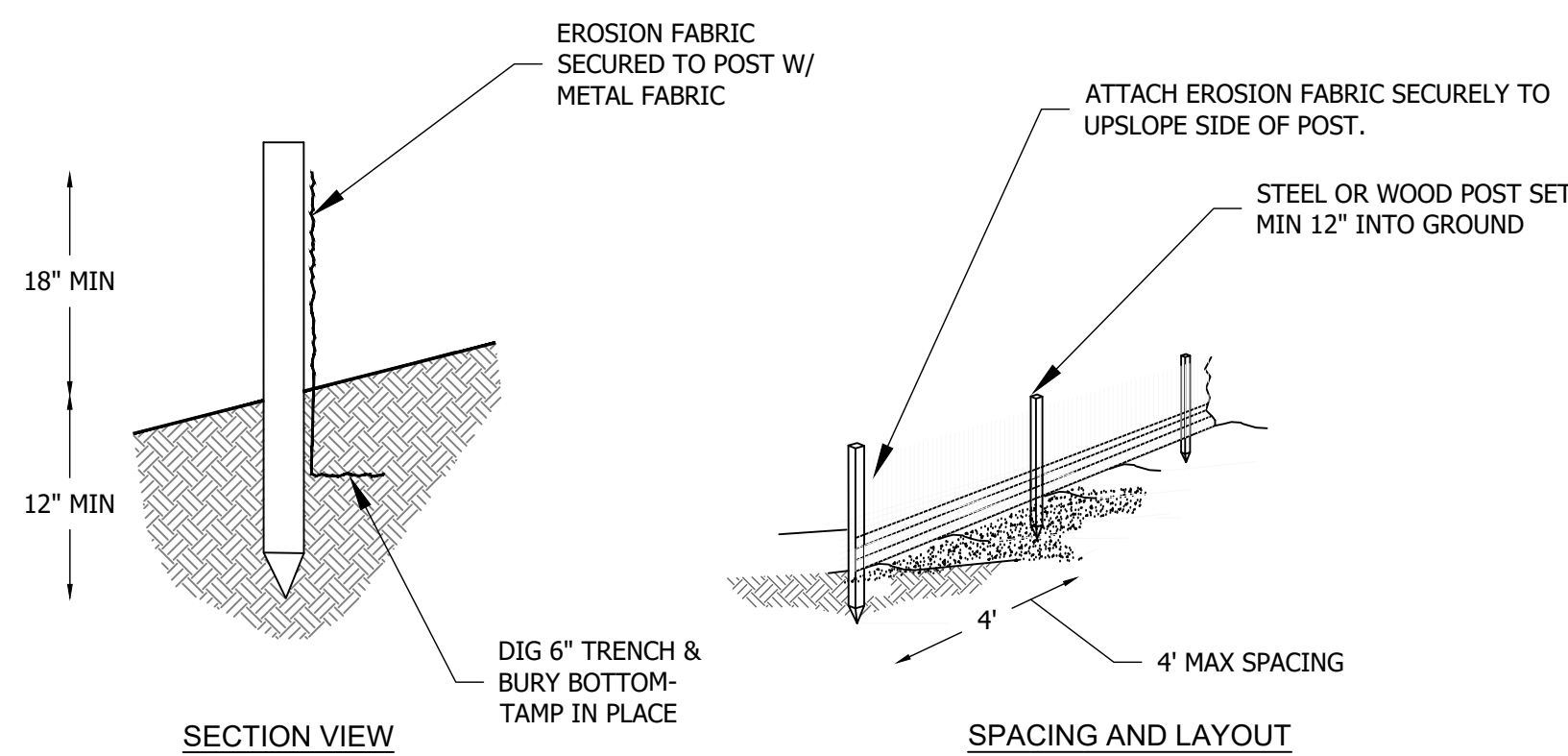
1 SPILLWAY PLAN VIEW
NTS



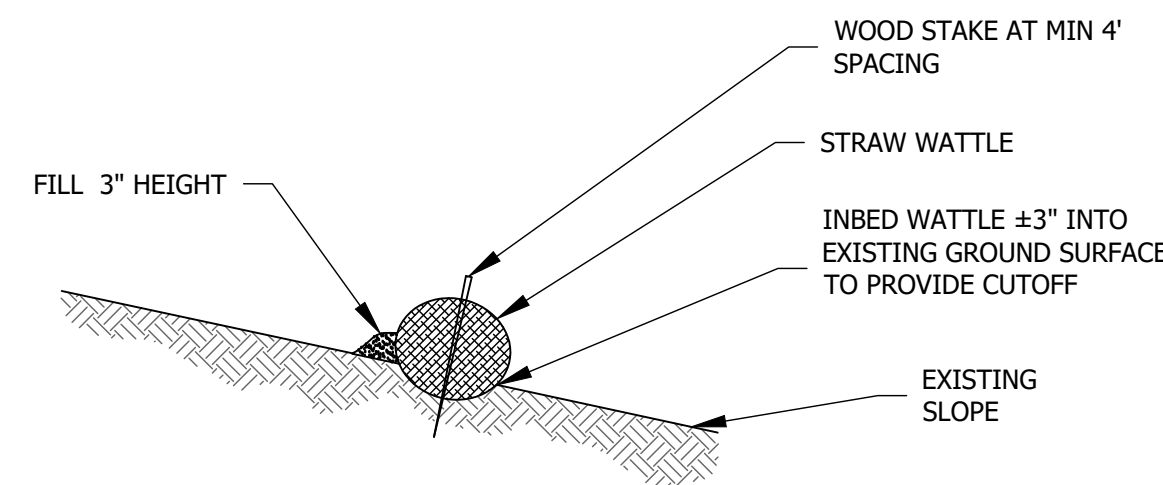
2 SPILLWAY SECTION VIEW
NTS



3 POND EDGE DETAIL
NTS



4 SILT FENCING
NTS



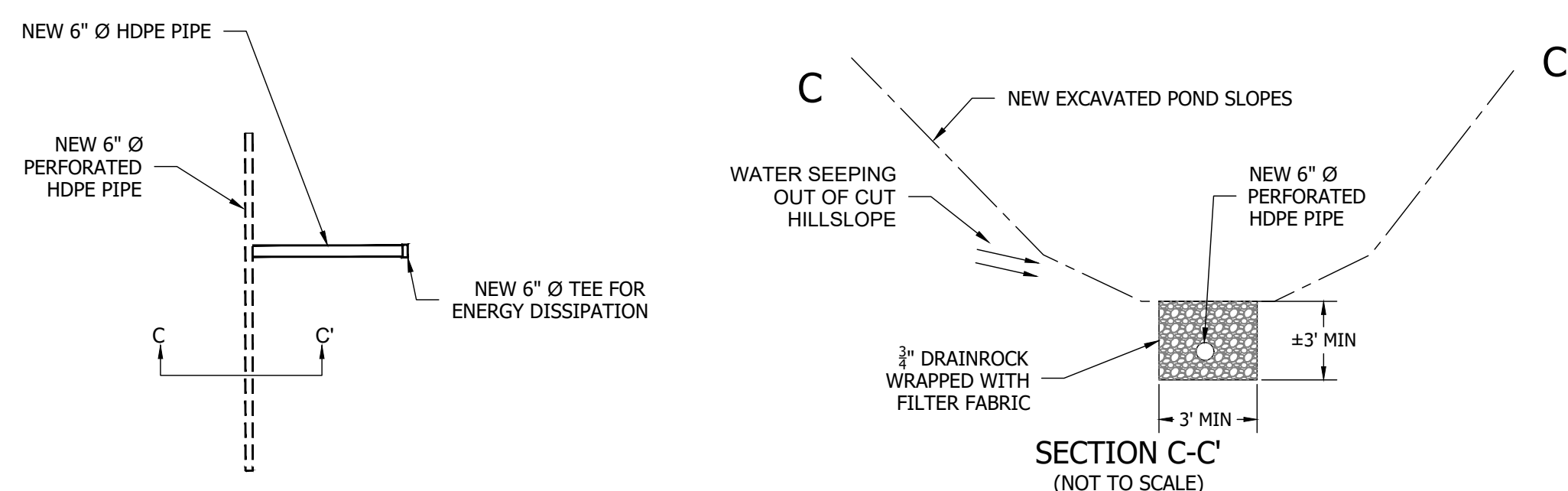
5 STRAW WATTLE DETAIL
NTS

EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED PRIOR TO THE WET SEASON (OCTOBER 1 THROUGH APRIL 30).
2. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING; FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION ACTIVITIES.
3. ALL AREAS DISTURBED DURING GRADING ACTIVITIES SHALL BE SEEDED WITH NATIVE GRASS SEED AND MULCHED WITH RICE STRAW.
4. PRIOR TO SEEDING AND STRAW, DISTURBED AREAS SHOULD BE ROUGHENED BY TRACK WALKING WITH A DOZER.
5. STRAW SHALL BE APPLIED AT A UNIFORM RATE OF APPROXIMATELY 4000 LBS PER ACRE BY HAND.
6. AT THE COMPLETION OF THE PROJECT, ONE ROW OF STRAW WATTLES SHALL BE PLACED AT MID SLOPE ALONG THE POND BERM.
7. PRIOR TO ANY RAINFALL, A SILT FENCE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER TO PREVENT SEDIMENT FROM DISCHARGING FROM THE PROJECT.
8. ALL SEDIMENT CONTROL BMPs SHALL BE MAINTAINED THROUGHOUT THE WET SEASON UNTIL NEW VEGETATION HAS BECOME ESTABLISHED ON ALL GRADED AREAS.

GENERAL PROJECT AND GRADING NOTES:

1. **DESIGN INTENT.** THESE DRAWINGS REPRESENT THE GENERAL DESIGN INTENT TO BE IMPLEMENTED AND CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS SHOWN ON THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE ENGINEER FOR ANY CLARIFICATIONS OR FURTHER DETAILS NECESSARY TO ACCOMMODATE ACTUAL SITE CONDITIONS. ANY DEVIATION FROM THESE PLANS WITHOUT THE LANDOWNER AND ENGINEER'S APPROVAL ARE AT THE CONTRACTOR'S OWN RISK AND EXPENSE. NOTIFY ENGINEER IMMEDIATELY OF ANY UNEXPECTED AND CHANGED CONDITIONS, SAFETY HAZARDS, AND ENVIRONMENTAL PROBLEMS ENCOUNTERED.
2. **JOB SITE CONDITIONS AND CONTRACTOR RESPONSIBILITY.** CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR SITE CONDITIONS DURING THE COURSE OF THE CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, AND ALL ENVIRONMENTAL PROTECTION ELEMENTS, WHETHER SHOWN ON THESE DRAWINGS OR NOT. CONTRACTOR SHALL FOLLOW ALL APPLICABLE CONSTRUCTION AND SAFETY REGULATIONS. THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE LANDOWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FROM LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE LANDOWNER OR ENGINEER.
3. **DAMAGE.** CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGE TO EXISTING PUBLIC AND PRIVATE PROPERTY, INCLUDING NATIVE TREES AND SHRUBS, AND OTHER PROPERTY IMPROVEMENTS. IF CONTRACTOR CAUSES DAMAGES TO SUCH ITEMS, HE SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT IN LIKE NUMBER, KIND, CONDITION, AND SIZE. ANY SUCH COST MAY BE DEDUCTED BY OWNER FROM MONIES DUE CONTRACTOR UNDER THIS CONTRACT.
4. **SOILS REPORT.** ALL CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE SOILS REPORT PREPARED FOR THIS PROPERTY.
5. **LIMITS OF WORK, ACCESS, STAGING AND MOBILIZATION AREAS.** EXACT LIMITS OF WORK, POINTS OF INGRESS-EGRESS, MOBILIZATION, STAGING, AND WORK AREAS WILL BE IDENTIFIED IN THE FIELD BY THE LANDOWNER AND/OR ENGINEER.
6. **EARTHWORK QUANTITIES.** CONTRACTOR IS RESPONSIBLE FOR ALL EARTHWORK, INCLUDING GRADING, PROVISION AND PLACEMENT OF ROCK MEETING SIZE LIMITS, AS SHOWN ON DRAWINGS, AND DISPOSAL OF ALL EXCESS SOIL AND RUBBLE. EARTHWORK QUANTITIES, INCLUDING GRADING, PLACED ROCK RIP-RAP QUANTITY ESTIMATES PROVIDED BY THE ENGINEER ARE ESTIMATES ONLY. LANDOWNER AND ENGINEER DO NOT, EXPRESSLY OR OTHERWISE BY IMPLICATION, EXTEND ANY WARRANTY TO EARTHWORK CALCULATIONS.
7. AREAS TO BE GRADED SHALL BE CLEARED OF ALL VEGETATION INCLUDING ROOTS AND OTHER UNSUITABLE MATERIAL FOR A STRUCTURAL FILL, THEN SCARIFIED TO A DEPTH OF 6 INCHES PRIOR TO PLACING OF ANY FILL.
8. AREAS WITH EXISTING SLOPES WHICH ARE TO RECEIVE FILL MATERIAL SHALL BE KEYED AND BENCHED.
9. FILL MATERIAL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 12 INCHES IN COMPACTED THICKNESS, MOISTENED OR DRIED AS NECESSARY TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED BY AN APPROVED METHOD. FILL MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY 1957 ASTM D-1557 - 91 MODIFIED PROCTOR (AASHTO) TEST OR SIMILAR APPROVED METHODS.
10. CUT AND FILL SLOPES SHALL NOT EXCEED A GRADE OF 2 HORIZONTAL TO 1 VERTICAL EXCEPT WHEN SHOWN ON PLANS. ALL DISTURBED GROUND SHALL BE PLANTED WITH NATIVE GRASS SEED AND MULCHED. SEE SHEET 12 FOR ADDITIONAL DETAILS.
11. BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES: ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED WASTE RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. SEDIMENTS AND OTHER MATERIAL MAY NOT BE TRACKED FROM TO THE SITE BY VEHICLE TRAFFIC. SEE SHEET 12 FOR ADDITIONAL DETAILS.



ADDITIONAL NOTES:

1. NEW DRAIN PIPES SHALL HAVE A MINIMUM SLOPE OF 2%
2. ALL BACKFILL ON TOP OF 6" PIPE SHALL BE COMPACTED TO 95% RELATIVE COMPACTION
3. POND LINER SHALL BE INSTALLED, AND POND SHALL BE FILLED IMMEDIATELY FOLLOWING DRAIN INSTALLATION
4. QUANTITIES: APPROXIMATELY 100 CY 3/4" DRAIN ROCK
5. SEE SHEETS 3 & 4 FOR FRENCH DRAIN LAYOUT

6 FRENCH DRAIN DETAIL
NTS

LAST SAVED: 2/9/2018 10:00:00 AM PLOT DATE: 2/9/2018 PLOT STYLE: ---.dwt