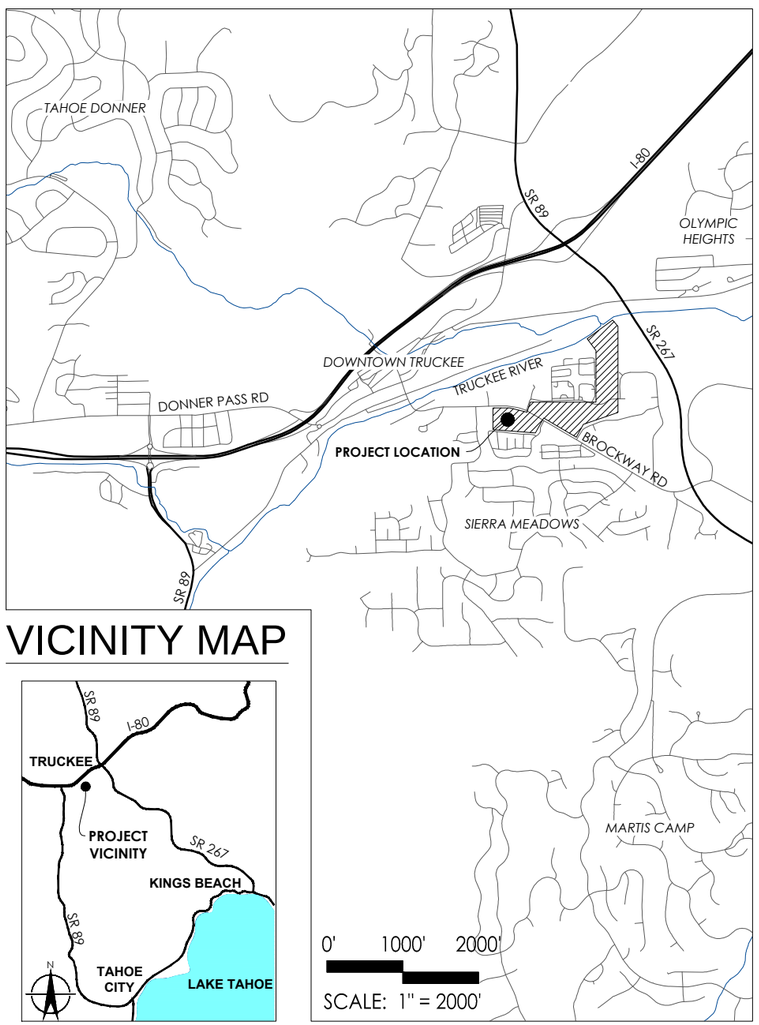
TRUCKEE WETLANDS RESTORATION

TOWN OF TRUCKEE, NEVADA COUNTY, CALIFORNIA

LOCATION MAP



VICINITY MAP

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PROJECT TEAM

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60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0100-TITLE.DWG

PREPARED FOR:

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Truckee River Watershed Council
Collaboration and action to protect and restore the Truckee River watershed

SUBMITTALS / REVISIONS	BY	DATE
30% PLANS	DS	3-11-15
60% PLANS	PK	11-25-15

DESIGNED BY	D SHAW
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER
PETER T. KULCHAWIK
No. C83062
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

COVER SHEET

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
--

SHEET
1.0

LEGEND:

- EXISTING MAJOR CONTOUR - 5 FT (5835)
- EXISTING MINOR CONTOUR -1 FT
- EXISTING CHANNEL/FLOWPATH
- EXISTING OVERHEAD ELECTRIC LINE AND POWERPOLE (OHE)
- EXISTING UNDERGROUND ELECTRIC LINE (UGE)
- EXISTING GAS LINE (GAS)
- EXISTING WATER LINE (WTR)
- EXISTING SEWER LINE (SWR)
- EXISTING STORM DRAIN (SD)
- EXISTING CULVERT (SD)
- EXISTING FENCE (X)
- EXISTING EDGE OF GRAVEL AREA
- EXISTING TRAIL
- EXISTING WETLAND LIMIT (W)
- EXISTING PROPERTY LINE
- EXISTING TREE/SHRUB LIMIT
- PROPOSED MAJOR CONTOUR (5950)
- PROPOSED MINOR CONTOUR
- PROPOSED FENCE (X)
- GRADE BREAK
- GRADING LIMIT
- WORK LIMIT
- PRESERVATION FENCING (ESA)
- TEMPORARY PINE NEEDLE WATTLE
- TEMPORARY DIVERSION PIPE (DIV)
- PROPOSED FINISHED GRADE ELEVATION (5850.0)
- PROPOSED FINISHED GRADE SLOPE (2%)
- PROPOSED EMBANKMENT SLOPE (3:1 UNLESS NOTED OTHERWISE)
- PRESERVE (SAVE) EXISTING TREE (S)
- REMOVE EXISTING TREE
- EXISTING BOULDERS
- PROPOSED BOULDERS
- PROPOSED SOD BLOCK
- FILL EXISTING DITCH
- SCRAPE TO REMOVE HIGH POINT AND MATCH ADJACENT EG
- EXISTING RIP RAP/ROCK PILE

SEE SHEET 5.0 FOR PLANTING SYMBOLS

ABBREVIATIONS:

'	FEET
"	INCH
#	NUMBER
AB	AGGREGATE BASE
APPROX	APPROXIMATE
CBF	CHANNEL BED FILL
℄	CENTERLINE
CMP	CORRUGATED METAL PIPE
DIA, Ø	DIAMETER
E	EASTING
EG	EXISTING GRADE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
ESA	ENVIRONMENTALLY SENSITIVE AREA
EX	EXISTING
FES	FLARED END SECTION
FG	FINISH GRADE
FT	FEET
GALV	GALVANIZED
H	HORIZONTAL
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
IN	INCH
INV	INVERT
LT	LEFT
LWM	LARGE WOODY MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
N	NORTHING
NTS	NOT TO SCALE
OC	ON CENTER
PC	POLE CUTTING
PROP	PROPOSED
Q_{10}	10-YEAR STREAMFLOW
Q_{100}	100-YEAR STREAMFLOW
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RSP	ROCK SLOPE PROTECTION
STA	STATION
STR	STRUCTURE
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
T-TSA	TAHOE-TRUCKEE SANITATION AGENCY
TDLT	TRUCKEE DONNER LAND TRUST
TDPUD	TRUCKEE DONNER PUBLIC UTILITY DISTRICT
TDRPD	TRUCKEE-DONNER RECREATION & PARK DISTRICT
TOT	TOWN OF TRUCKEE
TSD	TRUCKEE SANITARY DISTRICT
TTAD	TRUCKEE TAHOE AIRPORT DISTRICT
TYP	TYPICAL
V	VERTICAL
W/I	WITHIN
WSE	WATER SURFACE ELEVATION
YR	YEAR
Z	ELEVATION

SEE SHEET 5.0 FOR PLANTING ABBREVIATIONS

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE PROJECT SITE TO VERIFY SITE CONDITIONS AND FOR COMPLETELY UNDERSTANDING THE REQUIRED SCOPE OF WORK SHOWN ON THESE DRAWINGS AND CONTAINED IN THE PROJECT SPECIFICATIONS.
2. ALL PARTS OF THIS PROJECT - INCLUDING SOIL PREPARATION, EARTHWORK, AND PLANTING - ARE SUBJECT TO FIELD DESIGN BY THE ENGINEER'S REPRESENTATIVE. AT ANY TIME, THE CONTRACTOR'S OPERATIONS AND CONSTRUCTION MAY BE SUBJECT TO OBSERVATION BY THE ENGINEER'S REPRESENTATIVE. WHEN REQUESTING THE PRESENCE OF THE ENGINEER'S REPRESENTATIVE AT THE PROJECT SITE FOR DESIGN CLARIFICATION, STAGE ACCEPTANCE, OR OTHER APPROVALS, THE CONTRACTOR SHALL PROVIDE 48 HOURS ADVANCE NOTICE DIRECTLY TO THE ENGINEER'S REPRESENTATIVE.
3. UTILITY LOCATIONS DEPICTED HEREIN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE THE START OF ANY CONSTRUCTION OPERATIONS, INCLUDING AND NOT LIMITED TO EXCAVATION OR TRENCHING. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 811/1-800-227-2600. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS ADVANCE NOTICE FOR LOCATING UTILITIES.
4. THE CONTRACTOR SHALL INSTALL PRESERVATION FENCING, STAKE AND FLAG THE LIMITS OF GRADING, AND INSTALL EXCLUSION FENCING AS PRESCRIBED IN THE SPECIFICATIONS AT LOCATIONS SHOWN ON THE DRAWINGS BEFORE THE START OF ANY OTHER SITE WORK INCLUDING DEMOLITION, CLEARING AND GRUBBING, AND EARTHWORK. REFER TO THE SPECIFICATIONS FOR ADDITIONAL PRESERVATION REQUIREMENTS AND INFORMATION.
5. THE CONTRACTOR SHALL CONTACT THE ENGINEER'S REPRESENTATIVE IMMEDIATELY UPON FINDING ANY FIELD CONDITIONS THAT WOULD CONFLICT WITH THE INFORMATION INDICATED ON THESE DRAWINGS OR THE PROJECT SPECIFICATIONS. ALL FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER'S REPRESENTATIVE BEFORE CONSTRUCTION OF SAID ADJUSTMENTS; FAILURE TO DO SO SHALL RESULT IN THE CONTRACTOR ASSUMING FULL RESPONSIBILITY FOR ANY REQUIRED REVISIONS OR FIELD MODIFICATIONS, AS DIRECTED BY THE ENGINEER'S REPRESENTATIVE, AT NO ADDITIONAL COST.
6. CONFORM TO EXISTING GRADES AND CONDITIONS WHENEVER POSSIBLE. ANY ADJACENT OR OFFSET AREAS DISTURBED BY THE CONTRACTOR'S OPERATION MUST BE RESTORED BY THE CONTRACTOR TO THE PRE-DISTURBANCE CONDITIONS TO THE SATISFACTION OF THE ENGINEER'S REPRESENTATIVE.
7. ALL LUBRICATION, REFUELING, OR MAINTENANCE OF CONSTRUCTION VEHICLES SHALL BE CONDUCTED WITHIN APPROVED CONSTRUCTION STAGING AREAS AND BE A MINIMUM OF 100 FEET AWAY FROM EXISTING CHANNELS
8. STAGING AREAS MUST BE CONTAINED BY MEANS DESCRIBED IN THE SWPPP TO CONFINE THE AREA AND PREVENT CONTAMINANTS FROM ENTERING NEARBY CHANNELS AND WATER BODIES.
9. SEE SHEET 5.0 FOR ADDITIONAL REVEGETATION NOTES
10. HORIZONTAL DATUM: CALIFORNIA STATE PLANE NAD83 ZONE II (USFT), GRID COORDINATES; VERTICAL DATUM: NAVD88
11. WHERE NO WORK LIMIT IS SHOWN, THE PRESERVATION FENCING SHALL BE THE WORK LIMIT.
12. PRESERVE TREES AND VEGETATION OUTSIDE OF THE LIMITS OF WORK. ANY TREES OR VEGETATION DISTURBED OUTSIDE OF THE LIMITS OF WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

60% DESIGN - NOT FOR CONSTRUCTION

PREPARED FOR:
Truckee River Watershed Council
Collaboration and partnership protect, enhance and restore the Truckee River Watershed
Balance Hydrologics, Inc.
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12020 Donner Pass Road
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www.balancehydro.com

SUBMITTALS / REVISIONS	DATE	BY
30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	D SHAW
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER PETER K. KULCHAWIK No. C83042 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

SYMBOLS AND GENERAL NOTES

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128

SCALE --

SHEET 2.0

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0000-NOTES.DWG

N

0' 150' 300' 600'

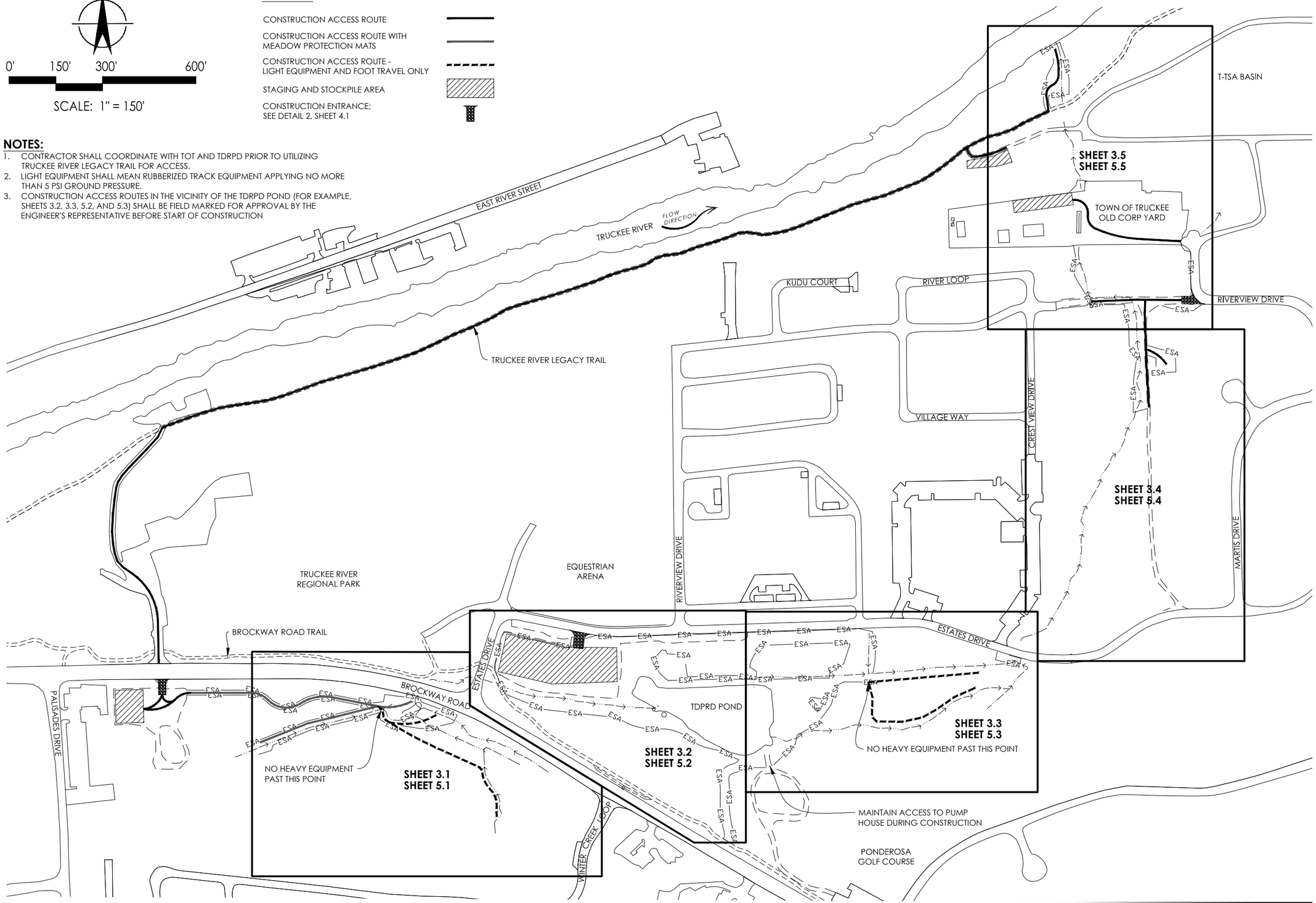
SCALE: 1" = 150'

LEGEND:

- CONSTRUCTION ACCESS ROUTE
- CONSTRUCTION ACCESS ROUTE WITH MEADOW PROTECTION MATS
- CONSTRUCTION ACCESS ROUTE - LIGHT EQUIPMENT AND FOOT TRAVEL ONLY
- STAGING AND STOCKPILE AREA
- CONSTRUCTION ENTRANCE; SEE DETAIL 2, SHEET 4.1

NOTES:

1. CONTRACTOR SHALL COORDINATE WITH TOT AND TDRPD PRIOR TO UTILIZING TRUCKEE RIVER LEGACY TRAIL FOR ACCESS.
2. LIGHT EQUIPMENT SHALL MEAN RUBBERIZED TRACK EQUIPMENT APPLYING NO MORE THAN 5 PSI GROUND PRESSURE.
3. CONSTRUCTION ACCESS ROUTES IN THE VICINITY OF THE TDRPD POND (FOR EXAMPLE, SHEETS 3.2, 3.3, 5.2, AND 5.3) SHALL BE FIELD MARKED FOR APPROVAL BY THE ENGINEER'S REPRESENTATIVE BEFORE START OF CONSTRUCTION



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Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CADD\214128 SHEETS\214128-0201-OVERVIEW.DWG

PREPARED FOR:

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REGISTERED PROFESSIONAL ENGINEER ★ PETER K. KULCHAWIK ★ No. C83042 Exp. 09-30-16 ★ CIVIL ★ STATE OF CALIFORNIA

KEY MAP, SITE PREPARATION, AND ACCESS/STAGING PLAN

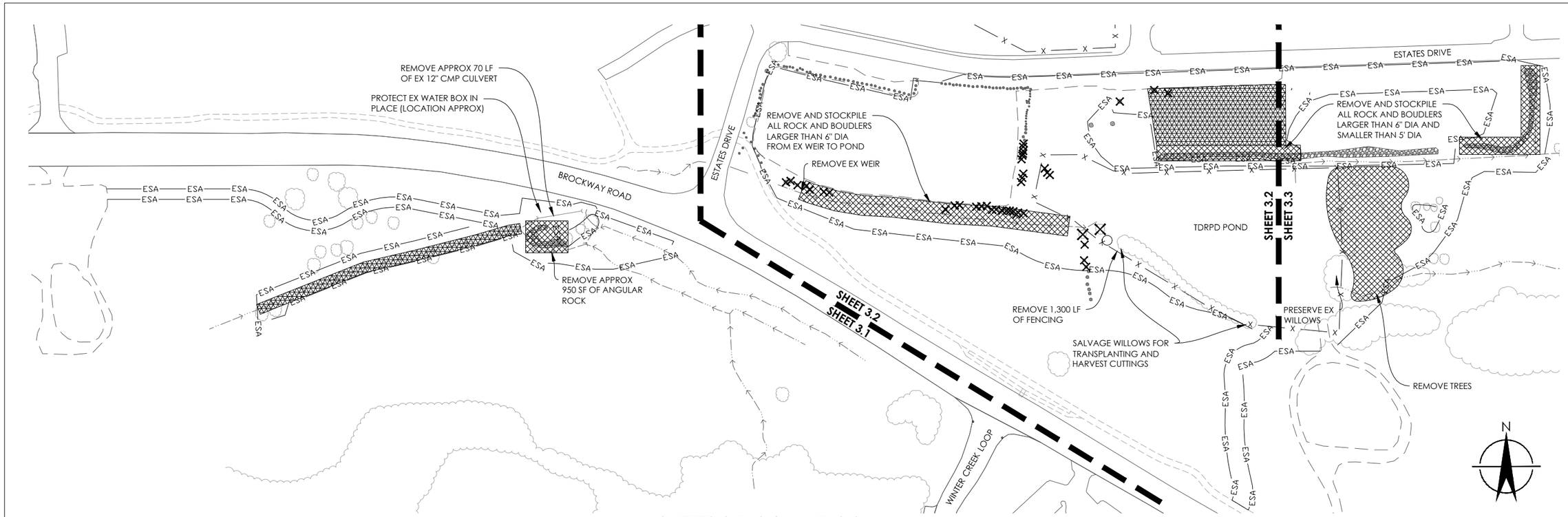
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

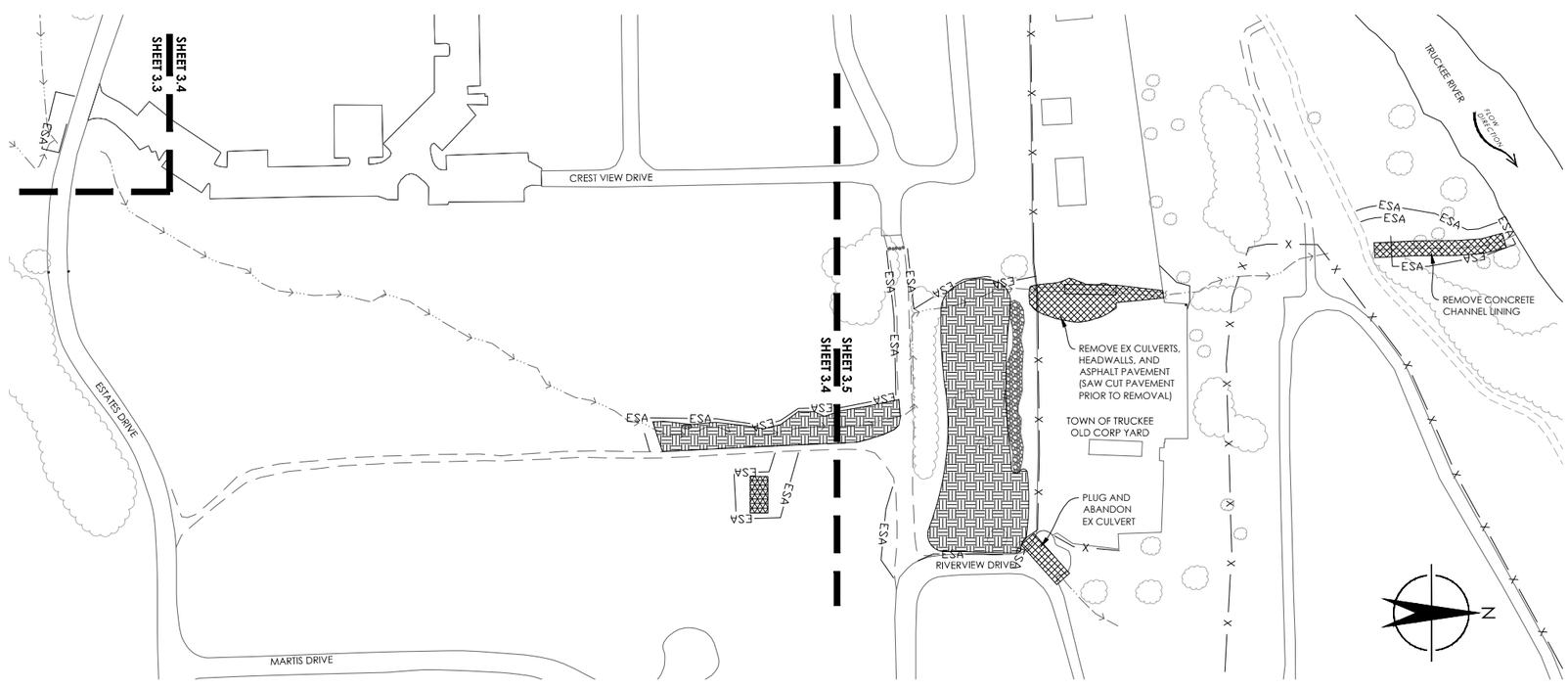
SCALE
1" = 150'

SHEET
2.1



SHEETS 3.1, 3.2, AND 3.3

1" = 80'



SHEET 3.3, 3.4, AND 3.5

1" = 80'

LEGEND:

- REMOVE TREE
- REMOVE AND STOCKPILE EXISTING BOULDERS FOR REUSE
- DEMOLITION/MATERIAL SALVAGE AREA
- SOD HARVEST AREA
- TOPSOIL SALVAGE AREA

NOTES:

1. PRESERVE ALL TREES NOT SHOWN AS TO BE REMOVED.
2. REFER TO SPECIFICATIONS FOR SOD HARVEST AND TOPSOIL SALVAGE METHODS.
3. STORE SOD AS DESCRIBED IN THE SPECIFICATIONS.
4. HARVEST SOD FROM WITHIN DEMOLITION AND MATERIAL SALVAGE AREAS SHOWN ON THIS SHEET, AS PRACTICABLE.
5. ALL MATERIALS INDICATED FOR REMOVAL AND ALL EXCESS SALVAGED MATERIALS UPON COMPLETION OF PROJECT SHALL BECOME THE PROPERY OF THE CONTRACTOR AND BE DISPOSED OF PROPERLY.
6. REFER TO SHEET 2.1 FOR STAGING AND STOCKPILE AREAS TO STOCKPILE SALVAGED MATERIALS.
7. PRIOR TO CONSTRUCTION THE REVEGETATION SPECIALIST SHALL MARK MARSH AND MEADOW SPECIES IN THE VICINITY OF THE TDRPD POND TO BE SALVAGED FOR TRANSPLANTING.
8. ALL CONIFEROUS TREES MARKED FOR REMOVAL SHALL BE SALVAGED (WITH ROOTWADS, IF PRACTICABLE) FOR REUSE IN LOG STRUCTURES; REFER TO SPECIFICATIONS FOR REQUIREMENTS ON ACCEPTABLE LOG TYPES.
9. THE LIMIT OF CLEARING AND GRUBBING SHALL BE THE GRADING LIMITS SHOWN ON THE PLAN SHEETS.

0' 80' 160' 320'

SCALE: 1" = 80

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DEMOLITION AND SOD HARVEST PLAN

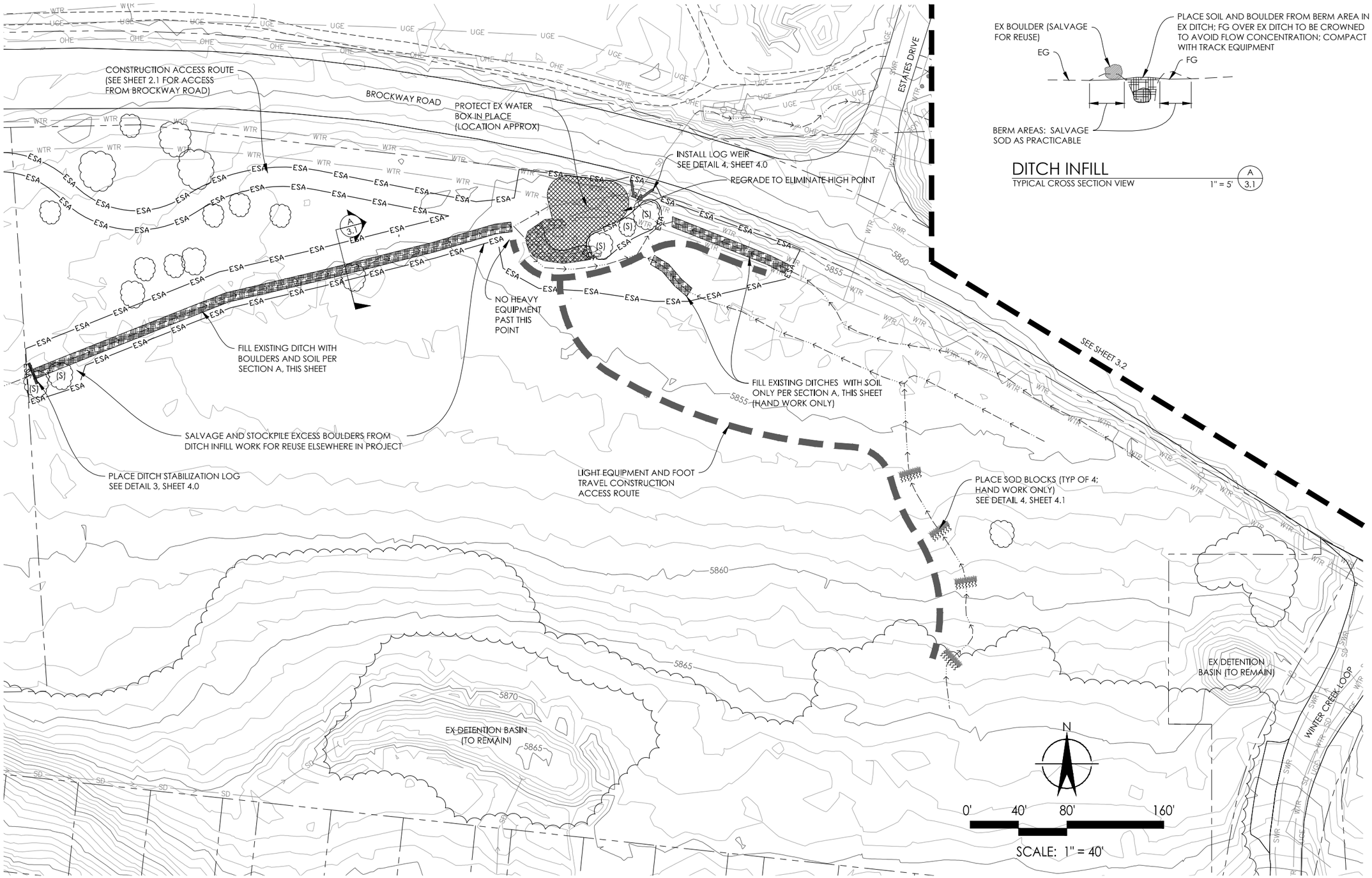
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
1" = 80'

SHEET
3.0



DITCH INFILL

TYPICAL CROSS SECTION VIEW 1" = 5' (A / 3.1)

NOTES:

1. TRIMMING OF BRANCHES ON TREES MARKED TO BE SAVED IS ALLOWABLE UPON APPROVAL BY THE ENGINEER'S REPRESENTATIVE.
2. REFER TO SHEET 5.1 FOR PLANTING PLAN.
3. REFER TO SHEET 2.1 FOR LIGHT EQUIPMENT DEFINITION.

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REGISTERED PROFESSIONAL ENGINEER ★ PETER L. KULCHAWIK ★ No. C83042 Exp. 09-30-16 ★ CIVIL ★ STATE OF CALIFORNIA

TDLT PARCEL

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128

SCALE 1" = 40'

SHEET 3.1

N

0' 40' 80' 160'

SCALE: 1" = 40'

NOTES:

1. SEE SHEET 5.2 FOR PLANTING PLAN.
2. NOT ALL EX TREES AND BOULDERS ARE SHOWN.

LEGEND:

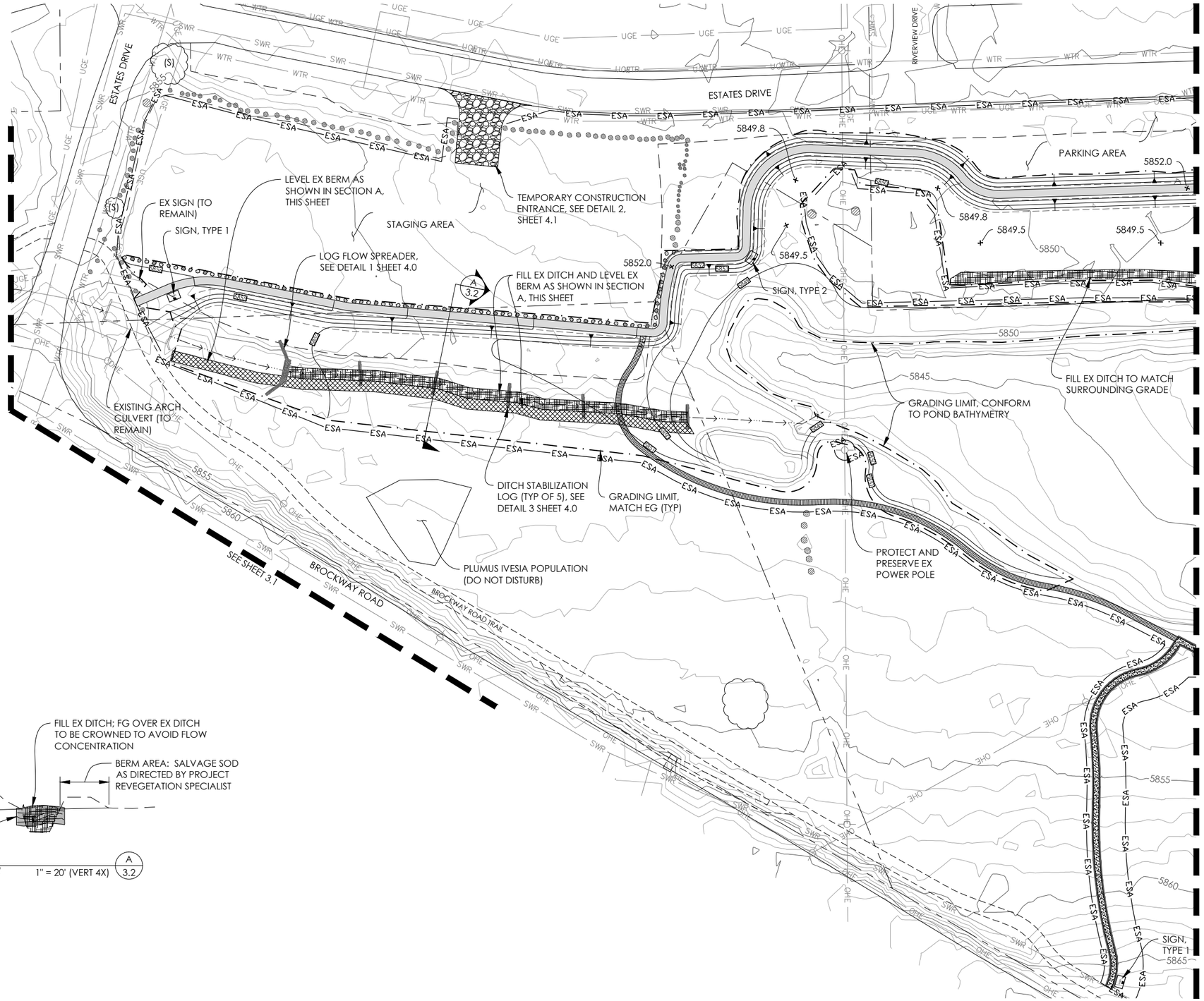
INTERPRETIVE SIGN (SEE DETAIL 5, SHEET 4.2)

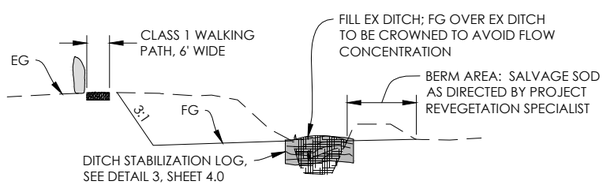
WALKING PATH (SEE DETAIL 1, SHEET 4.2)

CLASS 1 PATH (SEE DETAIL 2, SHEET 4.2)

TURNPIKE STYLE WALKING PATH (SEE DETAIL 3, SHEET 4.2)

PUNCHEON STYLE WALKING PATH (SEE DETAIL 4, SHEET 4.2)





DITCH INFILL

TYPICAL CROSS SECTION VIEW 1" = 20' (VERT 4X) A 3.2

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Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0302-PLAN02.DWG

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REGISTERED PROFESSIONAL ENGINEER PETER L. KULCHAWIK No. C83042 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

TDRPD POND

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128

SCALE 1" = 40'

SHEET 3.2

N

0' 40' 80' 160'

SCALE: 1" = 40'

NOTES:

1. SEE SHEET 5.2 FOR PLANTING PLAN.
2. NOT EX ALL TREES AND BOULDERS ARE SHOWN.
3. REFER TO SHEET 2.1 FOR DEFINITION OF LIGHT EQUIPMENT.

LEGEND:

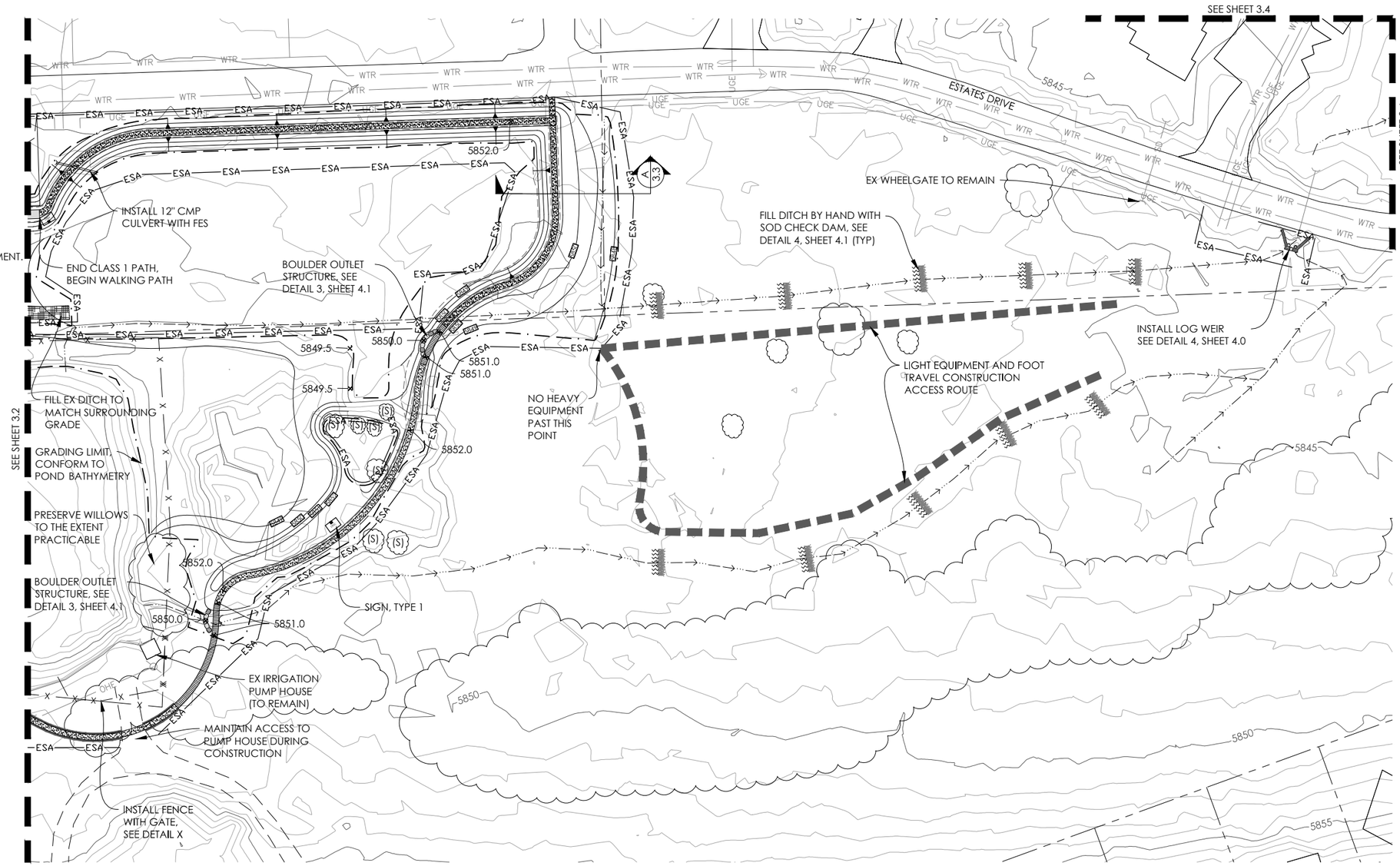
INTERPRETIVE SIGN (SEE DETAIL 5, SHEET 4.2)

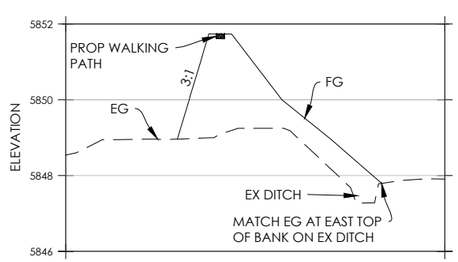
WALKING PATH (SEE DETAIL 1, SHEET 4.2)

CLASS 1 PATH (SEE DETAIL 2, SHEET 4.2)

TURNPIKE STYLE WALKING PATH (SEE DETAIL 3, SHEET 4.2)

PUNCHEON STYLE WALKING PATH (SEE DETAIL 4, SHEET 4.2)





WALKING PATH/DITCH INFILL (A 3.3)

TYPICAL CROSS SECTION VIEW 1" = 20' (VERT 10X)

60% DESIGN - NOT FOR CONSTRUCTION

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IRRIGATION POND TO ESTATES DRIVE

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128

SCALE 1" = 40'

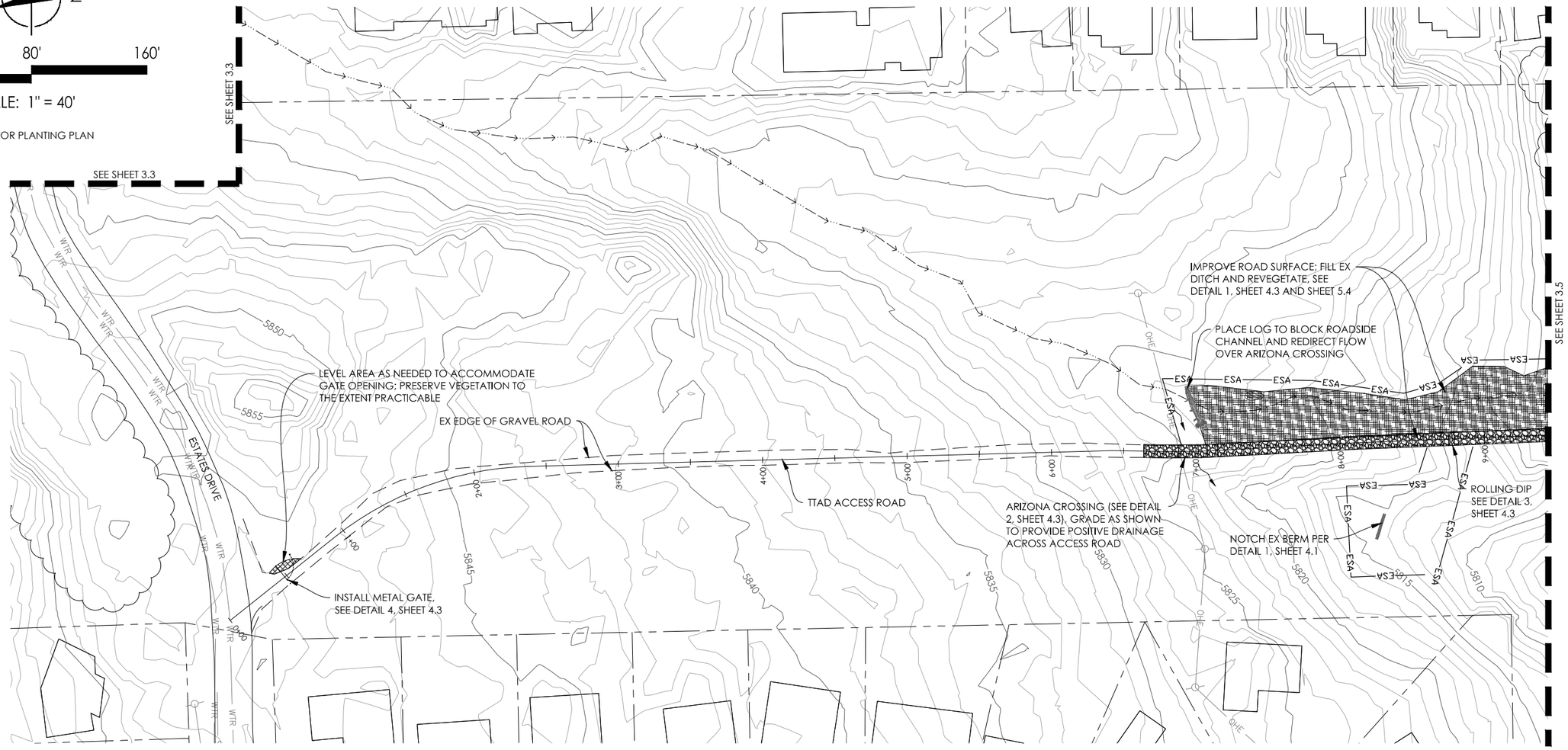
SHEET 3.3

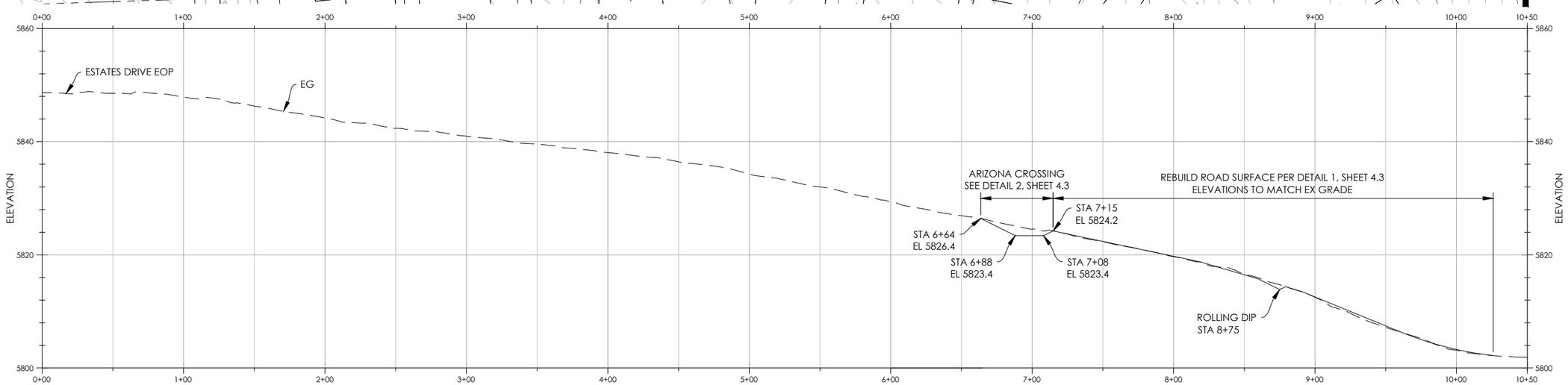
0' 40' 80' 160'

SCALE: 1" = 40'

NOTES:

1. SEE SHEET 5.4 FOR PLANTING PLAN





60% DESIGN - NOT FOR CONSTRUCTION

TTAD ACCESS ROAD

PROFILE VIEW 1" = 40' (H); 1" = 10' (V)

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0304-PLAN04.DWG

PREPARED FOR:

Truckee River Watershed Council

Balance Hydrologics, Inc.
P.O. Box 1077
12020 Donner Pass Road
Truckee, CA 96161
tel and fax (530) 550-9776
www.balancehydro.com

SUBMITTALS / REVISIONS	BY	DATE
30% PLANS	DS	3-11-15
60% PLANS	PK	11-25-15

DESIGNED BY	D SHAW
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER PETER L. KULCHAWIK No. C83042 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

TTAD ACCESS ROAD

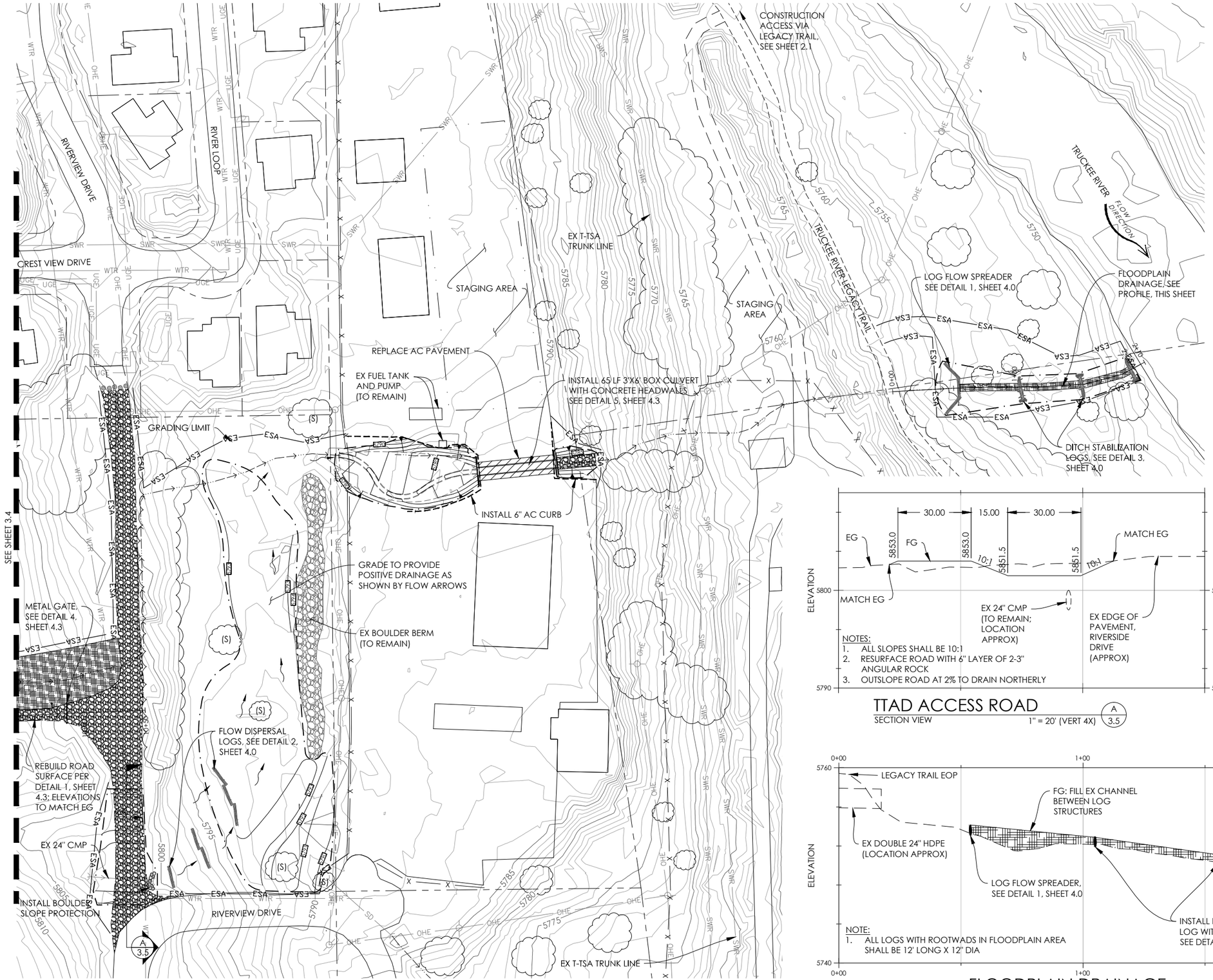
TRUCKEE WETLANDS RESTORATION

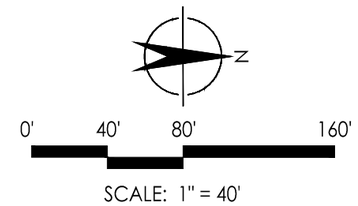
NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
1" = 40'

SHEET
3.4



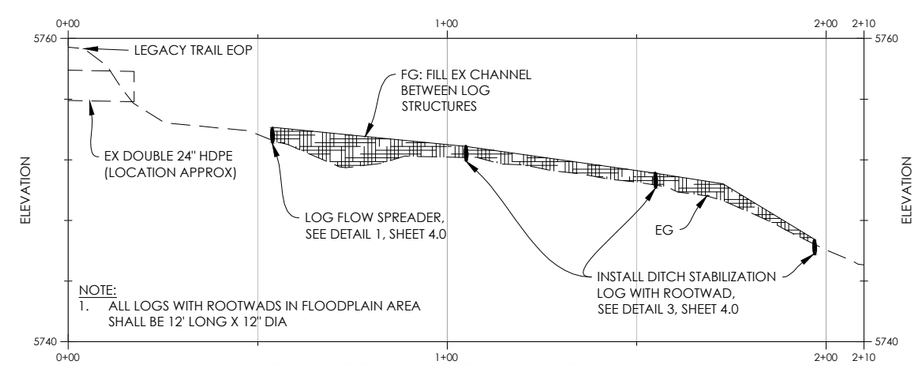


NOTES:
1. SEE SHEET 5.5 FOR PLANTING PLAN

NOTES:
1. ALL SLOPES SHALL BE 10:1
2. RESURFACE ROAD WITH 6" LAYER OF 2-3" ANGULAR ROCK
3. OUTSLOPE ROAD AT 2% TO DRAIN NORTHERLY

TTAD ACCESS ROAD

SECTION VIEW 1" = 20' (VERT 4X) A 3.5



NOTE:
1. ALL LOGS WITH ROOTWADS IN FLOODPLAIN AREA SHALL BE 12' LONG X 12" DIA

FLOODPLAIN DRAINAGE

PROFILE VIEW 1" = 20' (VERT 4X)

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0305-PLAN05.DWG

PREPARED FOR:

Truckee River Watershed Council

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CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER PETER L. KULCHAWIK No. C83062 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

TOT OLD CORP YARD

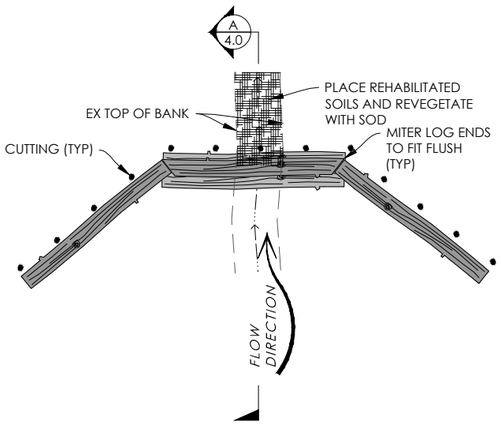
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

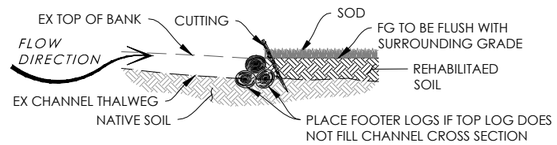
PROJECT NUMBER 214128

SCALE 1" = 40'

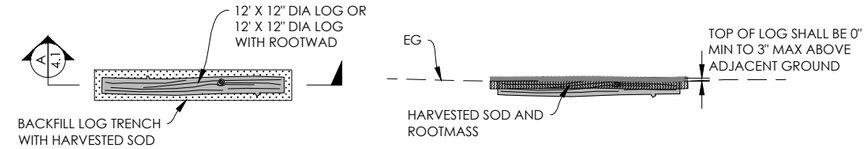
SHEET 3.5



1 LOG FLOW SPREADER
SCALE: 1" = 2'

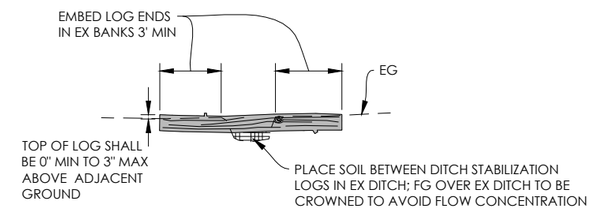


LOG FLOW SPREADER
PROFILE VIEW
1" = 2' A 4.0

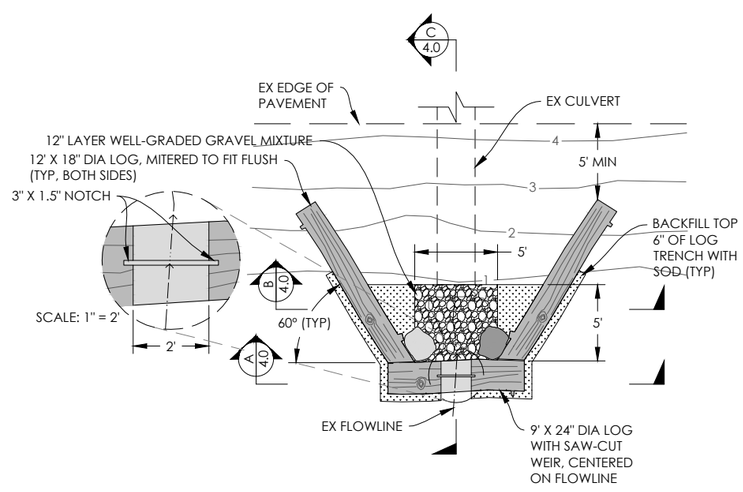


2 FLOW DISPERSAL LOG
SCALE: 1" = 5'

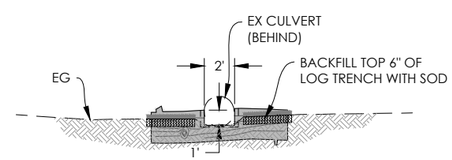
FLOW DISPERSAL LOG
CROSS SECTION VIEW
1" = 5' A 4.0



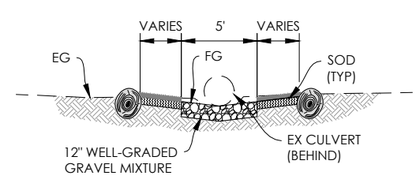
3 DITCH STABILIZATION LOG
SCALE: 1" = 5'



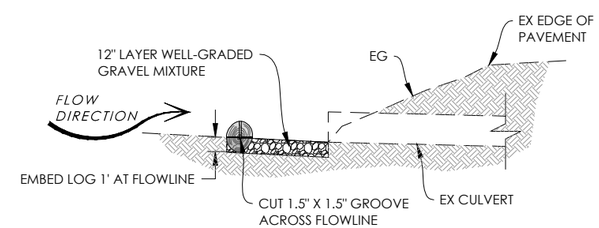
4 LOG WEIR
SCALE: 1" = 5'



LOG WEIR
ELEVATION VIEW
1" = 5' A 4.0



LOG WEIR
ELEVATION VIEW
1" = 5' B 4.0



LOG WEIR
PROFILE VIEW
1" = 5' C 4.0

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0400-DETAIL00.DWG

PREPARED FOR:
Truckee River Watershed Council
Collaboration and action to protect and restore the Truckee River Watershed

Balance Hydrologics, Inc.
P.O. Box 1077
12020 Donner Pass Road
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60% PLANS	11-25-15	PK

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DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER
PETER K. KULCHAWIK
No. C83042
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

WETLAND DETAILS 1

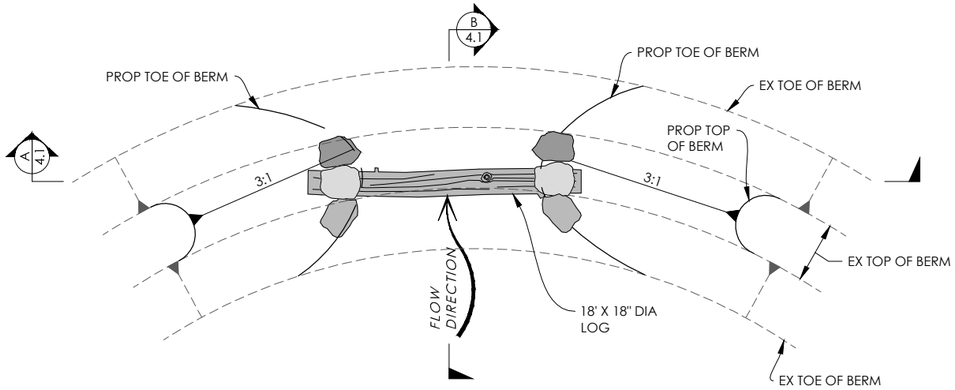
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

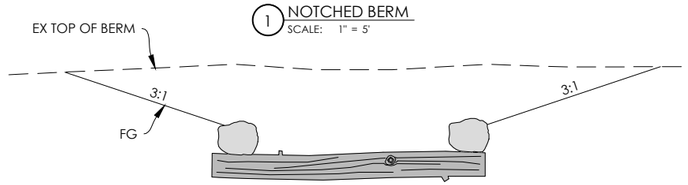
PROJECT NUMBER
214128

SCALE
AS SHOWN

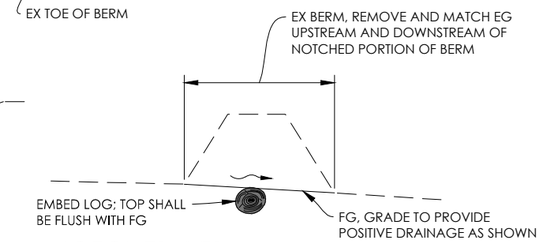
SHEET
4.0



1 NOTCHED BERM
SCALE: 1" = 5'



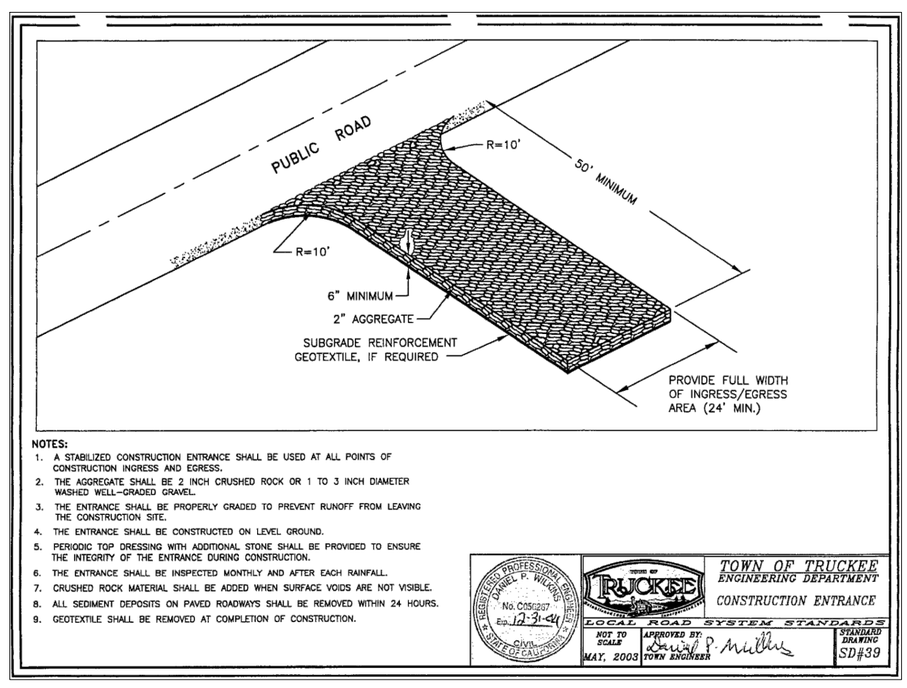
NOTCHED BERM
CROSS SECTION VIEW 1" = 5' A 4.1



NOTCHED BERM
PROFILE VIEW 1" = 5' B 4.1

<IN PROGRESS>

3 BOULDER OUTLET STRUCTURE
SCALE: NTS

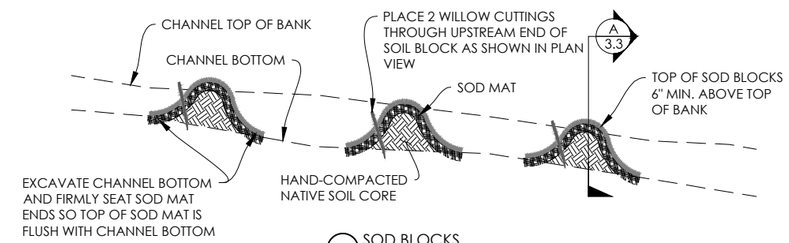


NOTES:
1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE USED AT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS.
2. THE AGGREGATE SHALL BE 2 INCH CRUSHED ROCK OR 1 TO 3 INCH DIAMETER WASHED WELL-GRADED GRAVEL.
3. THE ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
4. THE ENTRANCE SHALL BE CONSTRUCTED ON LEVEL GROUND.
5. PERIODIC TOP DRESSING WITH ADDITIONAL STONE SHALL BE PROVIDED TO ENSURE THE INTEGRITY OF THE ENTRANCE DURING CONSTRUCTION.
6. THE ENTRANCE SHALL BE INSPECTED MONTHLY AND AFTER EACH RAINFALL.
7. CRUSHED ROCK MATERIAL SHALL BE ADDED WHEN SURFACE VOIDS ARE NOT VISIBLE.
8. ALL SEDIMENT DEPOSITS ON PAVED ROADWAYS SHALL BE REMOVED WITHIN 24 HOURS.
9. GEOTEXTILE SHALL BE REMOVED AT COMPLETION OF CONSTRUCTION.

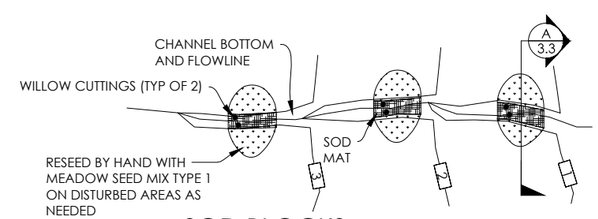
REGISTERED PROFESSIONAL ENGINEER DANIEL P. WILKINS No. C050207 Exp. 12-31-04 Civil STATE OF CALIFORNIA

TOWN OF TRUCKEE
TOWN OF TRUCKEE ENGINEERING DEPARTMENT
CONSTRUCTION ENTRANCE
LOCAL ROAD SYSTEM STANDARDS
NOT TO SCALE MAY, 2003
APPROVED BY: TOWN ENGINEER
STANDARD DRAWING SD#39

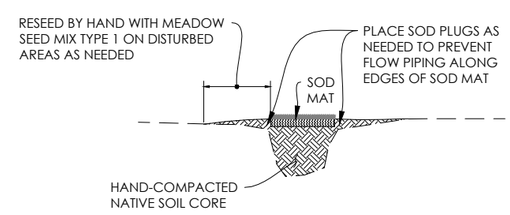
2 TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NTS



4 SOD BLOCKS
SCALE: 1" = 5'



SOD BLOCKS
PLAN VIEW 1" = 5'



SOD BLOCK
SECTION VIEW 1" = 5' A 3.3

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-040-DETAIL01.DWG

PREPARED FOR:
Truckee River Watershed Council
Collaboration and action to protect and restore the Truckee River Watershed

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60% PLANS	11-25-15	PK

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IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER PETER L. KULCHAWIK No. C83042 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

WETLAND DETAILS 2

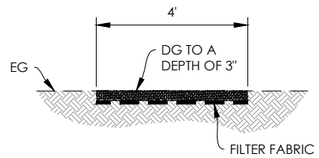
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

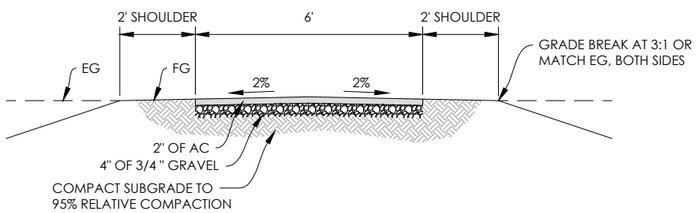
PROJECT NUMBER
214128

SCALE
AS SHOWN

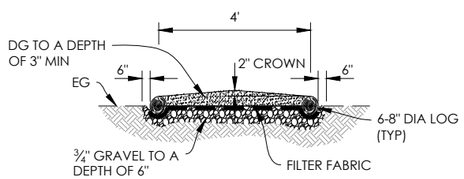
SHEET
4.1



1 WALKING PATH
SCALE: 1" = 2'



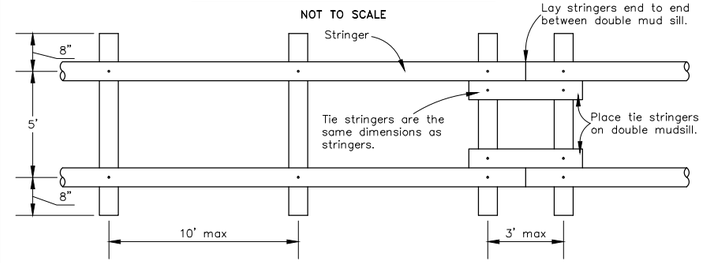
2 CLASS 1 TRAIL
SCALE: 1" = 2'



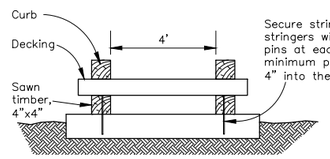
3 TURNPIKE STYLE WALKING PATH
SCALE: 1" = 2'

PUNCHEON WITH DECKING

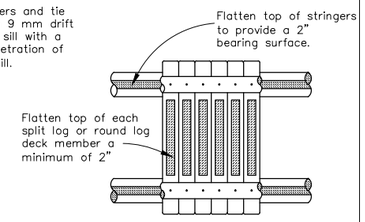
NOT TO SCALE



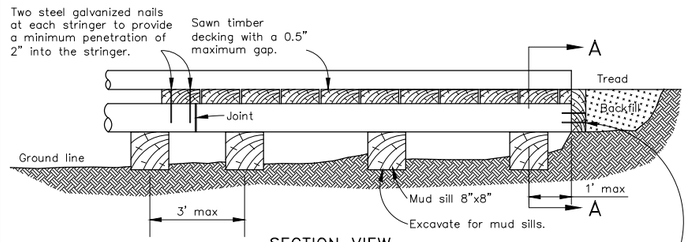
MUD SILL AND STRINGER LAYOUT



SECTION A–A



PLAN VIEW



SECTION VIEW

Bulkhead:
Secure with a minimum of
two galvanized spikes with
a minimum penetration of
2" into the stringer.

MEMBER	TYPE	SPECIES	SIZE (mm)	TREATMENT TYPE	MINIMUM RETENTION (kg/m3)
Stringer					
Deck					
Curb					
Bulkhead					

6/96 932–2

4 PUNCHEON STYLE WALKING PATH
SCALE: NTS

<IN PROGRESS>

5 INTERPRETIVE SIGN
SCALE: NTS

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128-0402-DETAILS02.DWG

PREPARED FOR:

Truckee River Watershed Council

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REGISTERED PROFESSIONAL ENGINEER PETER L. KULCHAWIK No. C83062 Exp. 09-30-16 CIVIL STATE OF CALIFORNIA

TRAIL DETAILS

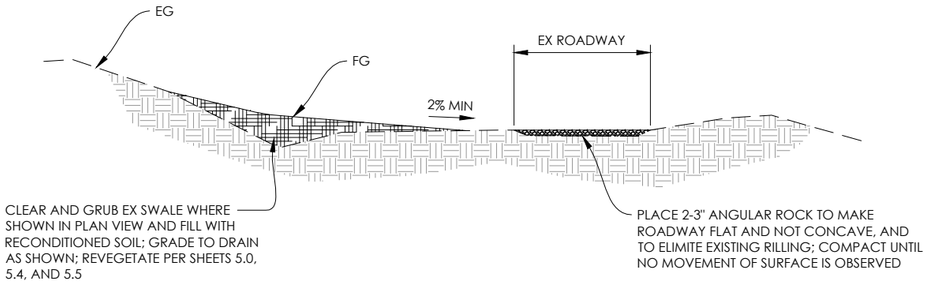
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

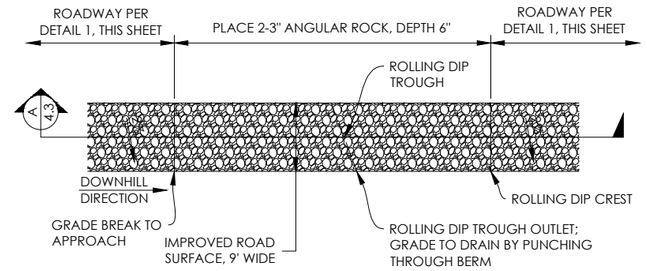
SCALE
AS SHOWN

SHEET
4.2

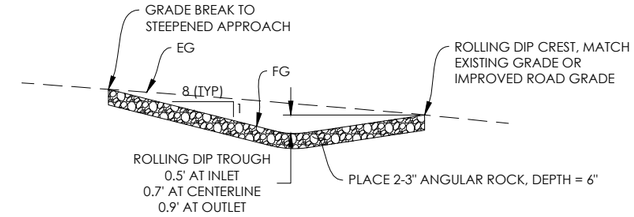


NOTE: DO NOT PLACE ANGULAR ROCK TO A DEPTH THAT CREATES A PRISM SO AS TO NOT CONCENTRATE FLOW ALONG THE ROADWAY MARGINS

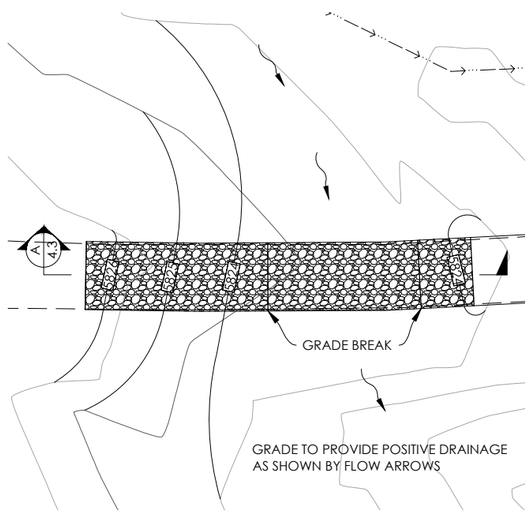
1 TYPICAL TTAD ACCESS ROAD CROSS SECTION
SCALE: 1" = 5' (VERT 4X)



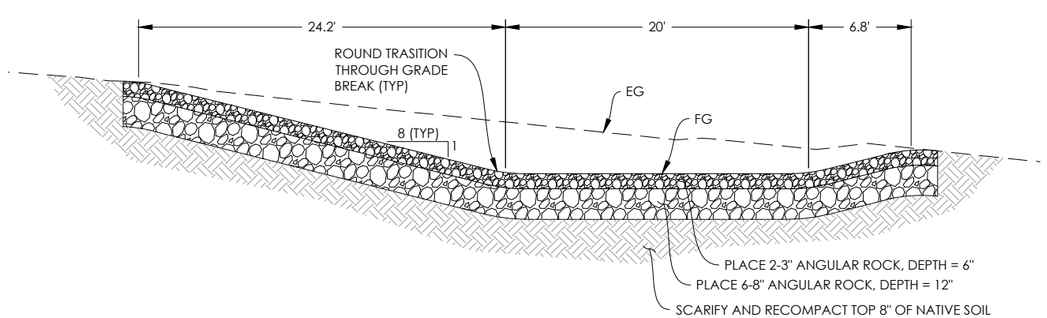
3 ROLLING DIP
SCALE: 1" = 10'



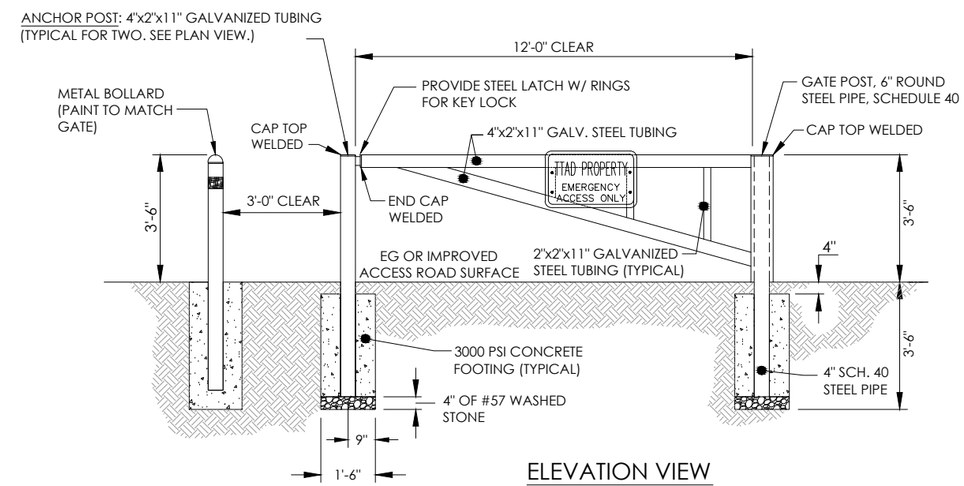
ROLLING DIP
PROFILE VIEW 1" = 10' (VERT 2X) A 4.0



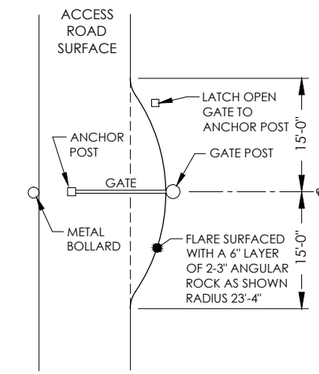
2 ARIZONA CROSSING
SCALE: 1" = 10'



ARIZONA CROSSING
PROFILE VIEW 1" = 5' (VERT 2X) A 4.3



ELEVATION VIEW



PLAN VIEW

NOTES:
1. ALL METAL SHALL BE GALVANIZED, PRIMED AND PAINTED. USE ONE COAT HAMMERITE PRIMER AND TWO COATS BENJAMIN MOORE HUNTER GREEN METAL ENAMEL.
2. ALL JOINTS SHALL BE WELDED SOLID.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWING OF GATE LATCH ASSEMBLY ON ARM & ANCHOR POSTS TO THE FIELD REPRESENTATIVE.
4. 3" DIAMETER REFLECTORS WITH GALVANIZED METAL BACKS SHALL BE ATTACHED TO THE STREET SIDE OF THE GATE, ON ALL POSTS AND IN CENTER OF GATE ARM.

4 METAL GATE
SCALE: NTS

<IN PROGRESS>

5 BOX CULVERT WITH HEADWALL
SCALE: NTS

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CADD\214128 SHEETS\214128-0403-DETAILS.DWG

PREPARED FOR:
Truckee River Watershed Council
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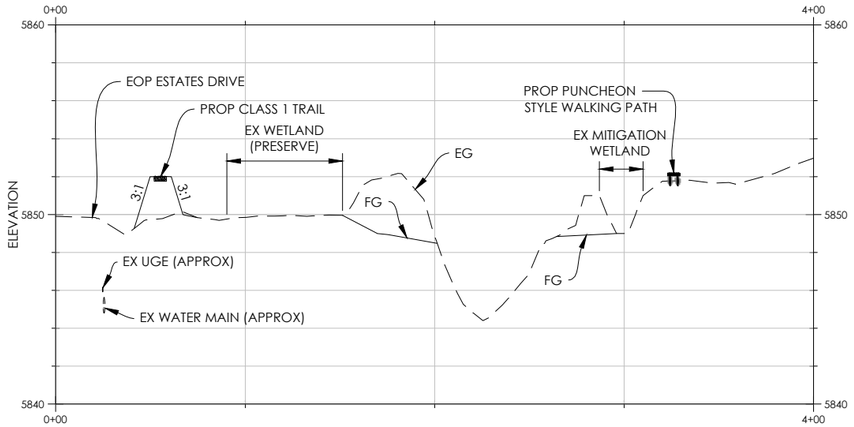
TTAD ACCESS ROAD DETAILS

TRUCKEE WETLANDS RESTORATION

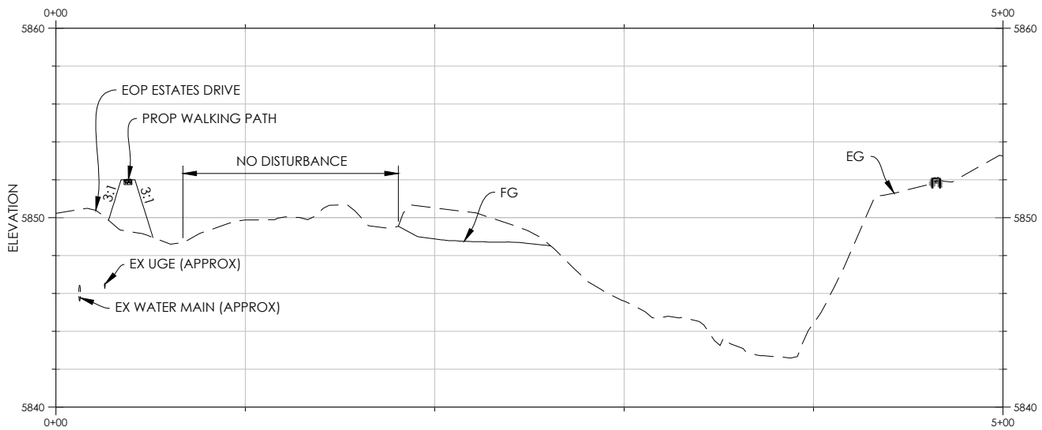
NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128
SCALE AS SHOWN
SHEET 4.3



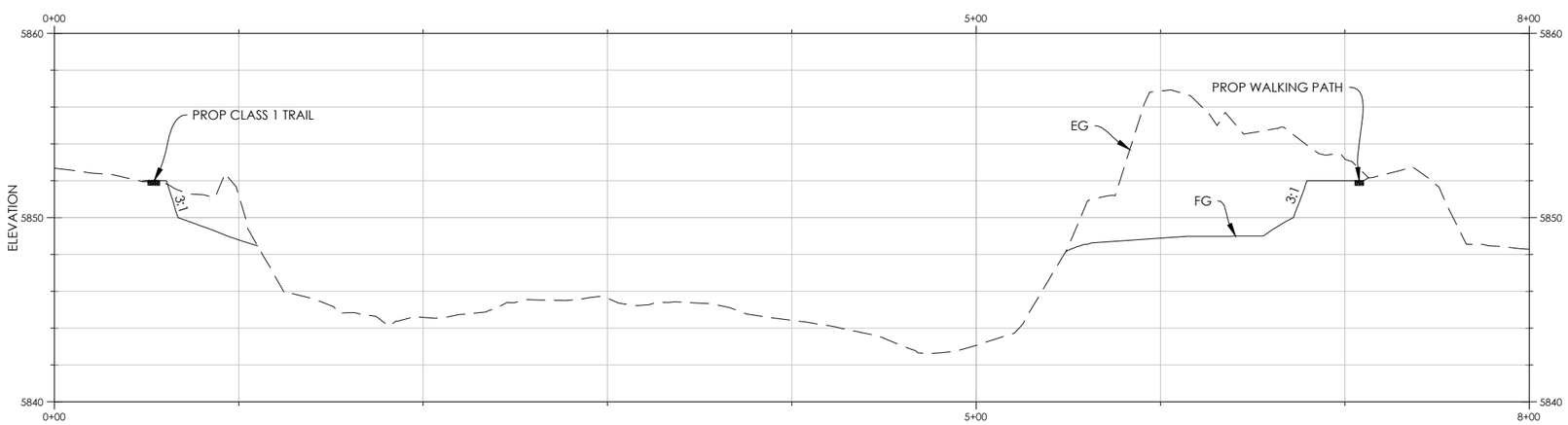
POND NORTH-SOUTH 1

SECTION VIEW 1" = 40' (H); 1" = 4' (V)



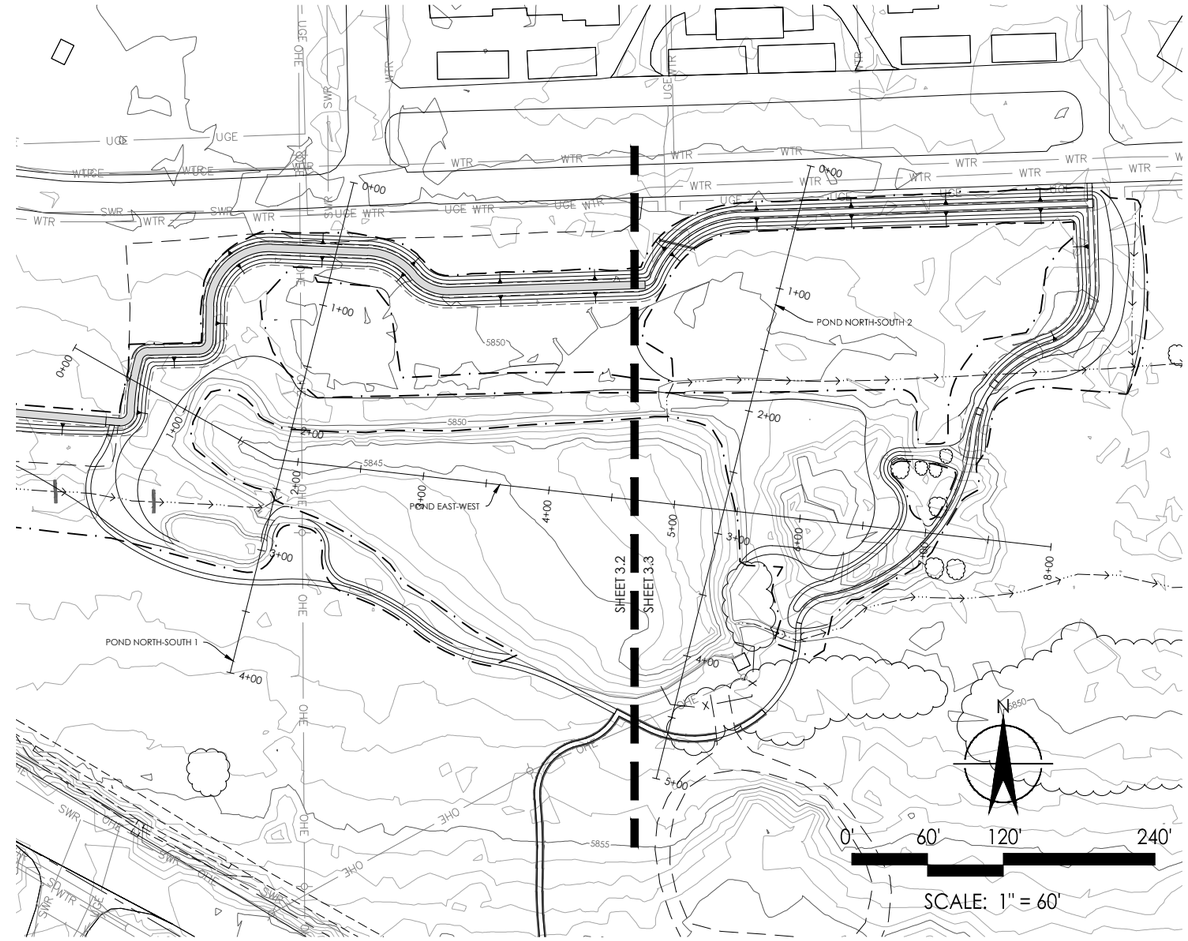
POND NORTH-SOUTH 2

SECTION VIEW 1" = 40' (H); 1" = 4' (V)



POND EAST-WEST

SECTION VIEW 1" = 40' (H); 1" = 4' (V)



60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0404-DETAIL04.DWG

PREPARED FOR:

Truckee River Watershed Council

Balance Hydrologics, Inc.
P.O. Box 1077
12020 Donner Pass Road
Truckee, CA 96161
tel and fax (530) 550-9776
www.balancehydro.com

SUBMITTALS / REVISIONS	DATE	BY
30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	D SHAW
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

REGISTERED PROFESSIONAL ENGINEER
PETER K. KULCHAWIK
No. C83042
Exp. 09-30-16
CIVIL
STATE OF CALIFORNIA

TDRPD POND CROSS SECTIONS

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
AS SHOWN

SHEET
4.4

PLANT MATRIX

Symbol	Treatment	Botanical Name	Common Name	Type / Size	Rate	Approximate Quantities
					Pure Live Seed *(Pounds per Acre)*	
	MEADOW SEED MIX TYPE 1	*Amica chamissonis*	meadow arnica	Seed		
		Carex aquatilis	water sedge	Seed		
		Carex nebrascensis	Nebraska sedge	Seed		
		Carex praegracilis	field sedge	Seed		
		Deschampsia danthonioides	annual hairgrass	Seed		
		Hordeum brachyantherum	meadow barley	Seed		
		Mimulus guttatus	seep monkeyflower	Seed		
		Mimulus primuloides	primrose monkeyflower	Seed		
		Polygonum bistortoides	American bistort	Seed		
		Potentilla gracilis	Northwest cinquefoil	Seed		
		Sidalcea oregana	Oregon checker bloom	Seed		
		Stellaria longipes ssp. longipes	Long-Stalk Starwort	Seed		
				Total Seed Mix	*0.0*	
					Pure Live Seed *(Pounds per Acre)*	
	MEADOW SEED MIX TYPE 2	*Amica chamissonis*	meadow arnica	Seed		
		Carex praegracilis	field sedge	Seed		
		Carex nebrascensis	Nebraska sedge	Seed		
		Deschampsia danthonioides	annual hairgrass	Seed		
		Elymus trachycaulus	slender wheatgrass	Seed		
		Geum macrophyllum	large leaf avens	Seed		
		Hordeum brachyantherum	meadow barley	Seed		
		Leymus triticoides	creeping wild rye	Seed		
		Lupinus lepidus	Pacific lupine	Seed		
		Penstemon rydbergii	Rydberg's penstemon	Seed		
		Polygonum douglasii	Douglas' knotweed	Seed		
		Potentilla gracilis	Northwest cinquefoil	Seed		
		Sidalcea oregana	Oregon checker bloom	Seed		
		Symphyotrichum spathulatum	mountain American-aster	Seed		
				Total Seed Mix	*0.0*	
					Pure Live Seed *(Pounds per Acre)*	
	SAGESCRUB SEED MIX	*Artemisia tridentata vaseyana*	mountain big sagebrush	Seed	2.0	
		Bromus carinatus	California bromegrass	Seed	6.0	
		Elymus elymoides	squirreltail	Seed	6.0	
		Ericameria nauseosa	rubber rabbitbrush	Seed	2.0	
		Linium lewisii	Lewis' flax	Seed	1.0	
		Lupinus argenteus	silvery lupine	Seed	1.0	
		Lupinus breweri	Brewer's lupine	Seed	2.0	
		Lupinus lepidus	dwarf tidy lupine	Seed	4.0	
		Penstemon deustus	rock penstemon	Seed	1.0	
		Poa secunda ssp. secunda	Sandberg's bluegrass	Seed	8.0	
		Pursia tridentata	antelope bitterbrush	Seed	1.0	
		Stipa occidentalis	Sierra needlegrass	Seed	4.0	
				Total Seed Mix	*38.0*	
		CUTTINGS			**Spacing**	
		Salix lasiandra	Pacific willow	Cuttings		
		Salix lemmonii	Lemmon's willow	Cuttings		
		Salix scouleriana	Nuttall willow	Cuttings		
		CONTAINER PLANTS			**Spacing**	
		Amelanchier utahensis	pale-leaved service berry			
		Fragaria vesca	wild strawberry			
		Pinus contorta	lodgepole pine			
		Populus tremuloides	quaking aspen			
		Prunus emarginata	bitter cherry			
		Rosa woodsii ssp. ultramontanum	interior rose			
		Sambucus racemosa var. melanocarpa	Rocky mountain elder			

REVEGETATION NOTES

GENERAL

1. ALL AREAS OF REVEGETATION ARE SUBJECT TO IN-FIELD DESIGN VERIFICATION AND ADJUSTMENTS AS DIRECTED BY THE REVEGETATION SPECIALIST. AT ALL TIMES, RETAIN EXISTING NATIVE VEGETATION WHENEVER POSSIBLE.
2. EXISTING GRADES AND CONDITIONS SHALL BE CONFORMED TO WHENEVER POSSIBLE. ANY ADJACENT OR OFFSITE AREAS DISTURBED BY THE CONTRACTOR'S OPERATION MUST BE RESTORED BY THE CONTRACTOR TO THE PREDISTURBANCE CONDITION TO THE SATISFACTION OF THE ENGINEER'S REPRESENTATIVE .
3. REFER TO THE PROJECT SPECIFICATIONS AND THE DETAILS ON THE DRAWINGS FOR ADDITIONAL INFORMATION.

PLANTING

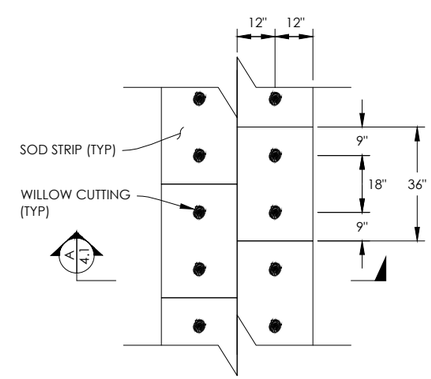
1. PLANTING AREAS ARE SHOWN DIAGRAMMATICALLY. PLANTS SHALL BE PLACED IN A RANDOM DISTRIBUTION TO MIMIC A NATURAL LAYOUT; REFER TO PLANT LAYOUT DETAILS.
2. PLANT QUANTITIES SHOWN IN THE PLANT MATRIX ARE FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY AND INSTALL THE ACTUAL QUANTITIES FROM THE PLANTING PLANS.

IRRIGATION

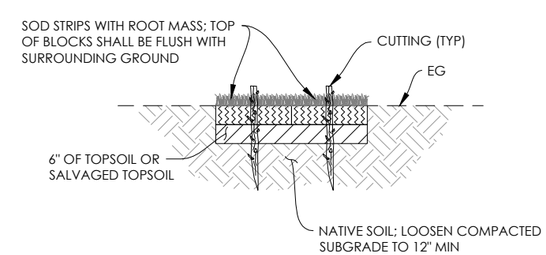
1. PLACEHOLDER

PLANT ESTABLISHMENT

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE PLANTS IN A HEALTHY CONDITION AND THE IRRIGATION SYSTEM THROUGHOUT THE PLANT ESTABLISHMENT PERIOD ACCORDING TO THE SPECIFICATIONS.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS DURING THE PLANT ESTABLISHMENT PERIOD WHICH WILL BEGIN UPON THE FINAL ACCEPTANCE OF THE CONTRACTOR'S INSTALLATION OPERATIONS. ALL PLANT ESTABLISHMENT ACTIVITIES SHALL BE COORDINATED WITH THE ENGINEER'S REPRESENTATIVE.



1 SOD STRIP LAYOUT
SCALE: 1" = 2'



SOD STRIP LAYOUT
SECTION VIEW 1" = 2' A 5.0

PREPARED FOR:

Truckee River Watershed Council

Balance Hydrologics, Inc.
P.O. Box 1077
12200 Donner Pass Road
Truckee, CA 96161
tel and fax (530) 550-9776
www.balancehydro.com

SUBMITTALS / REVISIONS	BY	DATE
30% PLANS	DS	3-11-15
60% PLANS	PK	11-25-15

DESIGNED BY J HALDERMAN
DRAWN BY P KULCHAWIK
CHECKED BY E BALLMAN
IN CHARGE P KULCHAWIK
DATE 11-25-15

PLANTING MATRIX AND DETAILS

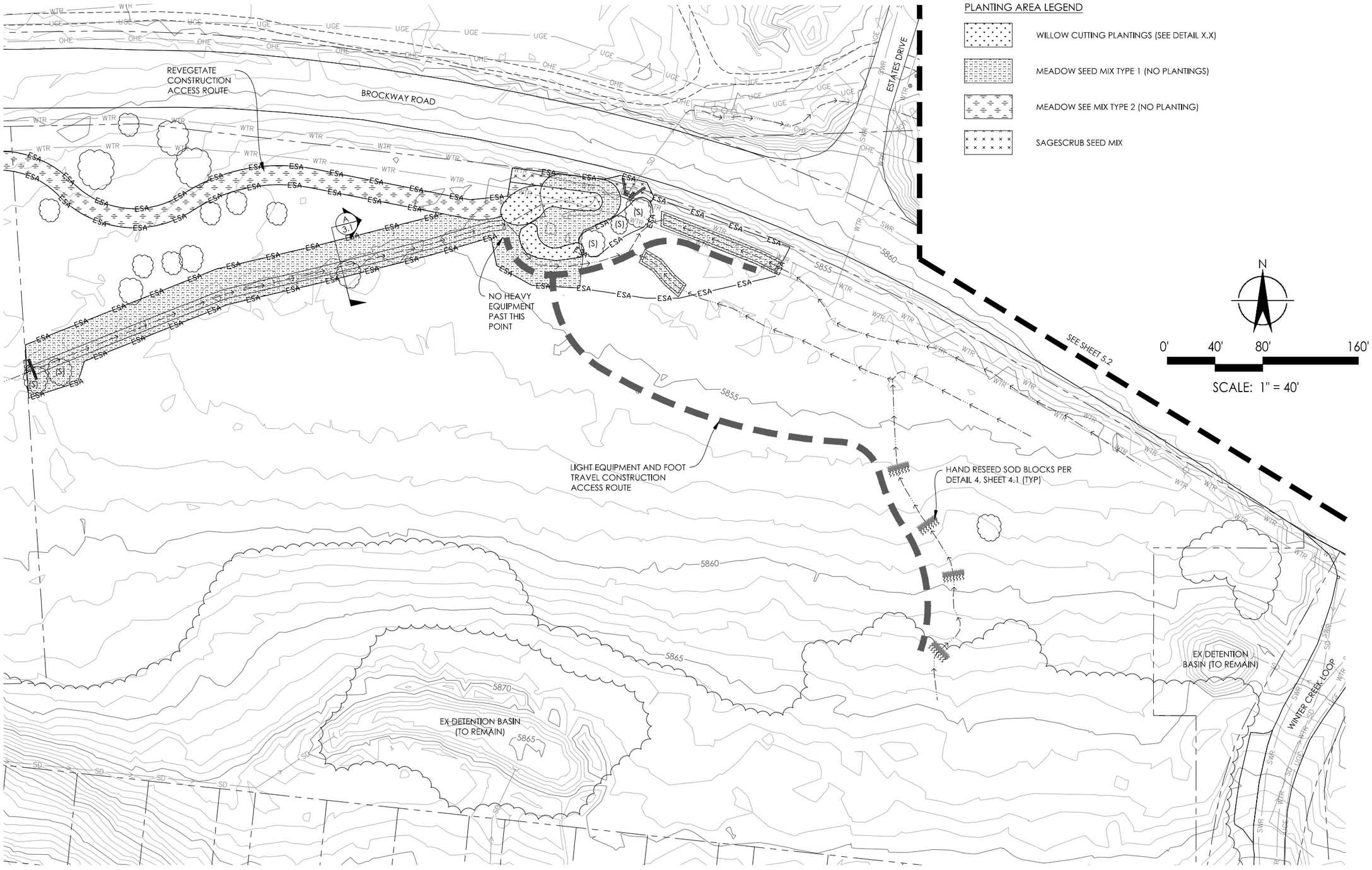
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128
SCALE --
SHEET 5.0

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0500-REVEG00.DWG

60% DESIGN - NOT FOR CONSTRUCTION



NOTE:
1. SEE SHEET 3.1 FOR GRADING PLAN

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-050\1-REVEG01.DWG

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SUBMITTALS / REVISIONS	DATE	BY
30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	J HALDERMAN
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

TDLT PARCEL PLANTING PLAN

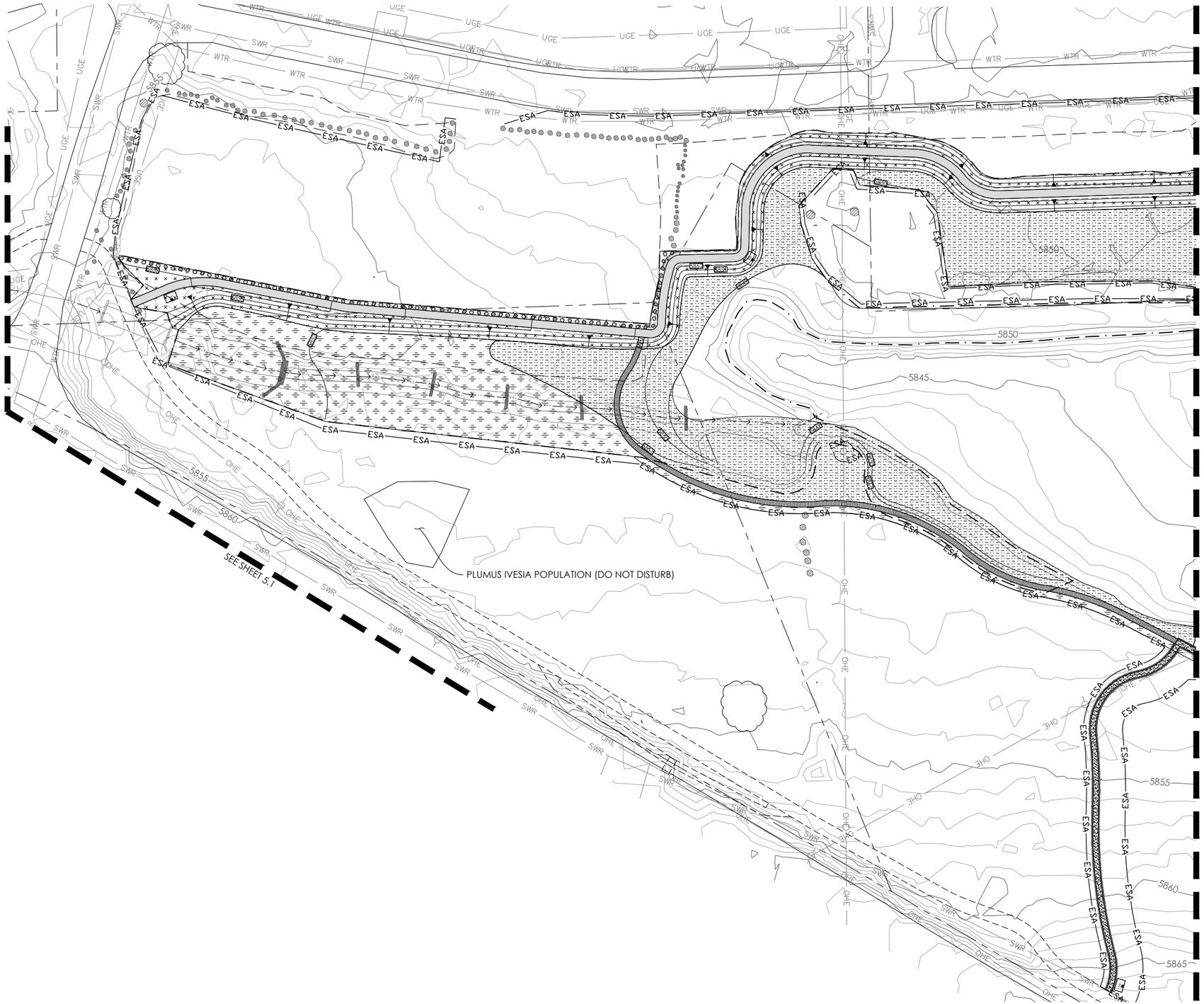
TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
1" = 40'

SHEET
5.1



PLANTING AREA LEGEND

- MEADOW SEED MIX TYPE 1 (NO PLANTINGS)
- MEADOW SEE MIX TYPE 2 (NO PLANTING)
- SAGESCRUB SEED MIX

N

0' 40' 80' 160'

SCALE: 1" = 40'

60% DESIGN - NOT FOR CONSTRUCTION

NOTES:

1. SEE SHEET 3.2 FOR GRADING PLAN
2. NOT ALL TREES AND BOULDERS ARE SHOWN

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0502-REVIEG02.DWG

PREPARED FOR:

Truckee River Watershed Council

Balance Hydrologics, Inc.

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tel and fax (530) 550-9776
www.balancehydro.com

DESIGNED BY	DATE	BY	SUBMITTALS / REVISIONS
J HALDERMAN	3-11-15	DS	30% PLANS
DRAWN BY	11-25-15	PK	60% PLANS
P KULCHAWIK			
CHECKED BY			
E BALLMAN			
IN CHARGE			
P KULCHAWIK			
DATE			
11-25-15			

TDRPD POND PLANTING PLAN

TRUCKEE WETLANDS RESTORATION

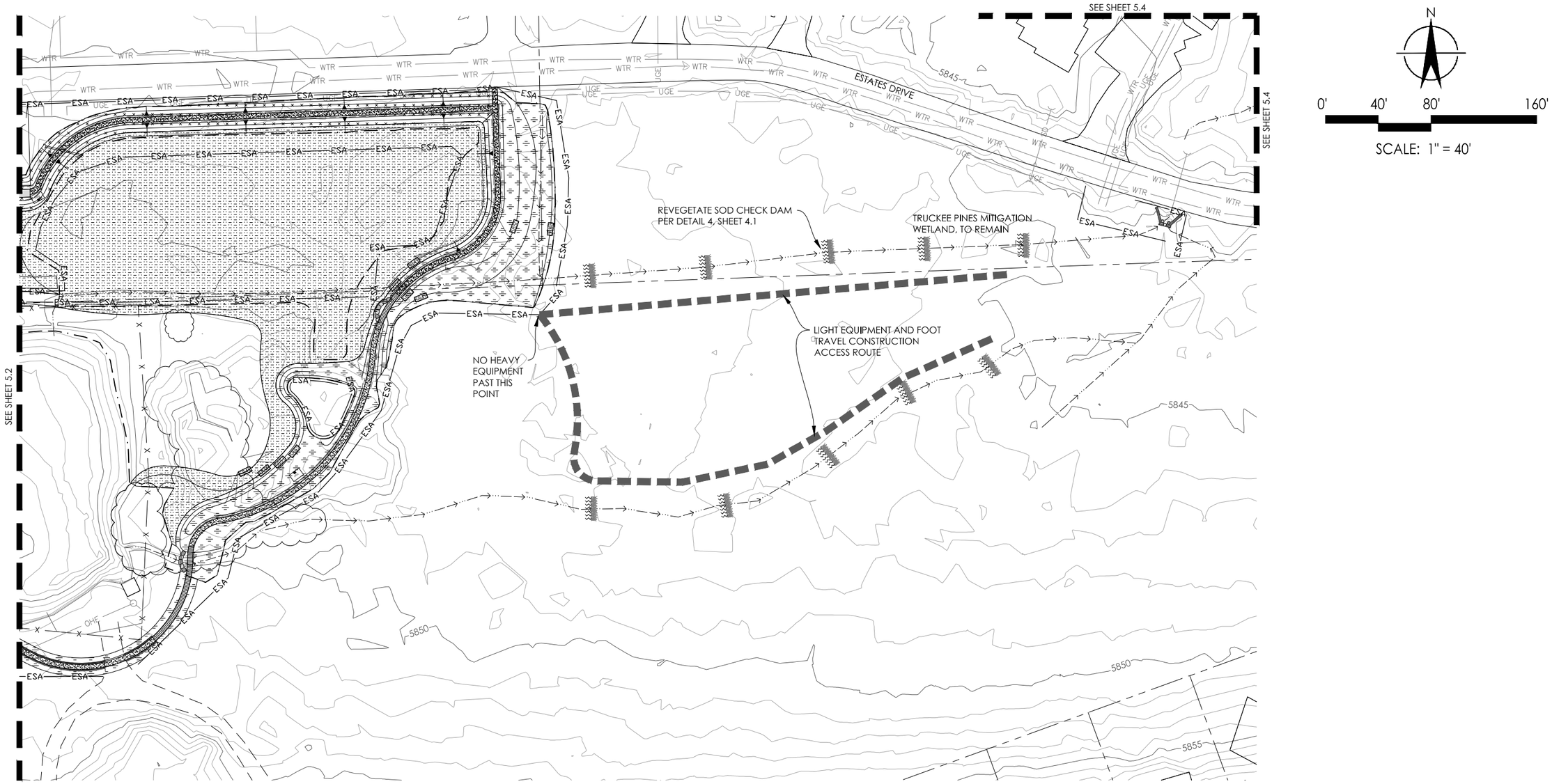
NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
1" = 40'

SHEET

5.2



PLANTING AREA LEGEND

- MEADOW SEED MIX TYPE 1 (NO PLANTINGS)
- MEADOW SEE MIX TYPE 2 (NO PLANTING)
- SAGESCRUB SEED MIX

NOTES:

1. SEE SHEET 5.3 FOR GRADING PLAN

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0503-REVEGD.DWG

PREPARED FOR:

Truckee River Watershed Council

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SUBMITTALS / REVISIONS	DATE	BY
30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	J HALDERMAN
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

TDRPD POND TO ESTATES DRIVE PLANTING PLAN

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER
214128

SCALE
1" = 40'

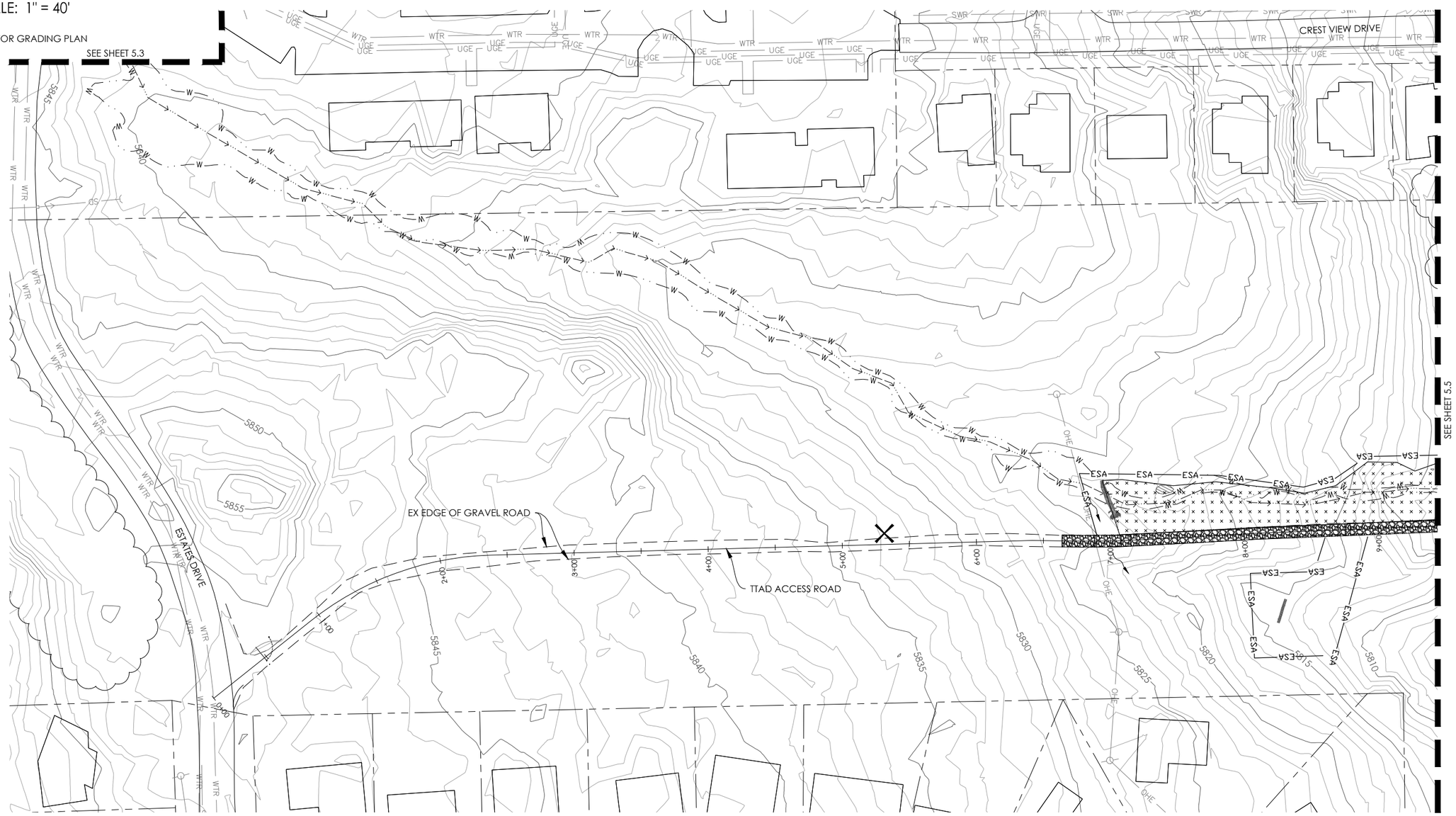
SHEET
5.3

0' 40' 80' 160'

SCALE: 1" = 40'

NOTES:

1. SEE SHEET 3.4 FOR GRADING PLAN



PLANTING AREA LEGEND

SAGESCRUB SEED MIX

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-G504-REVEG04.DWG

PREPARED FOR:

Truckee River Watershed Council

Collaboration and action to protect and restore the Truckee River Watershed

Balance Hydrologics, Inc.

P.O. Box 1077
12020 Donner Pass Road
Truckee, CA 96161
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SUBMITTALS / REVISIONS	DATE	BY
30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	J HALDERMAN
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

TTAD ACCESS ROAD PLANTING PLAN

TRUCKEE WETLANDS RESTORATION

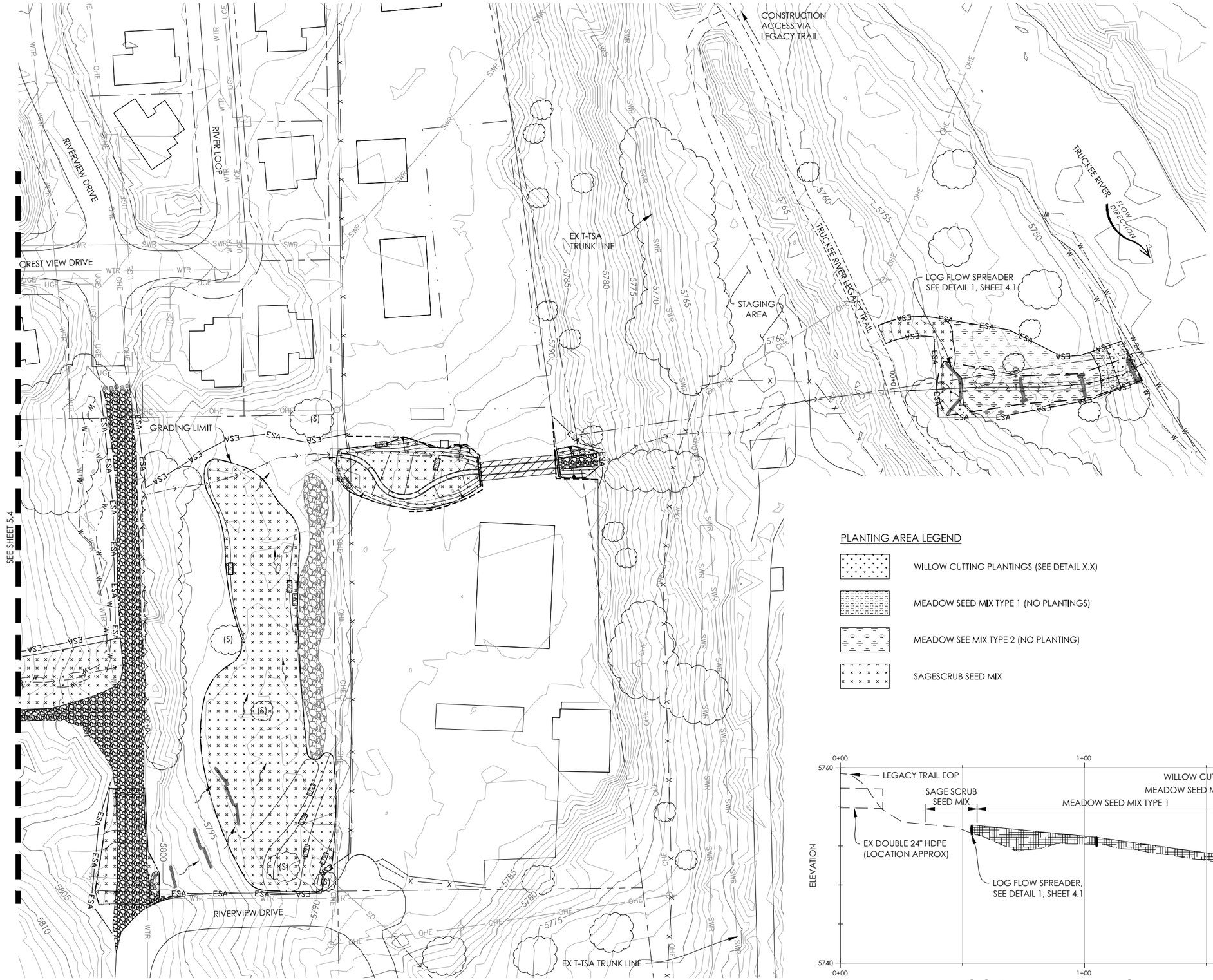
NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

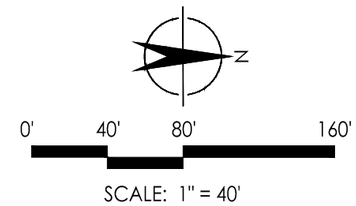
PROJECT NUMBER
214128

SCALE
1" = 40'

SHEET

5.4



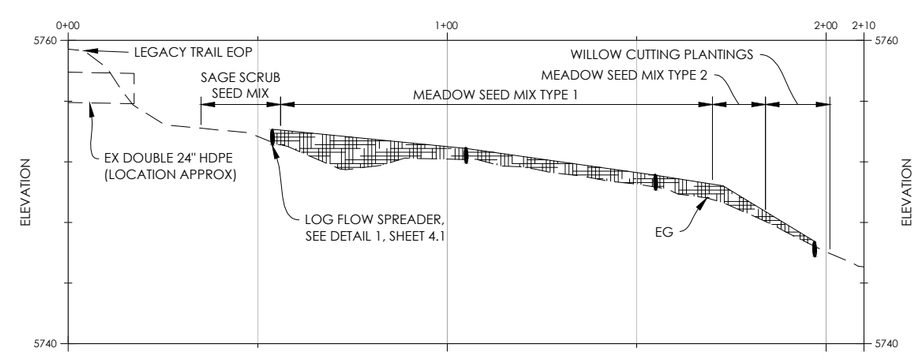


NOTES:

1. SEE SHEET 3.5 FOR GRADING PLAN

PLANTING AREA LEGEND

- WILLOW CUTTING PLANTINGS (SEE DETAIL X.X)
- MEADOW SEED MIX TYPE 1 (NO PLANTINGS)
- MEADOW SEE MIX TYPE 2 (NO PLANTING)
- SAGESCRUB SEED MIX



FLOODPLAIN DRAINAGE

PROFILE VIEW 1" = 20' (VERT 4X)

60% DESIGN - NOT FOR CONSTRUCTION

Y:_PROJECTS\214128 TRUCKEE WETLANDS DESIGN\214128 CAD\214128 SHEETS\214128-0505-REVEG05.DWG

PREPARED FOR:
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30% PLANS	3-11-15	DS
60% PLANS	11-25-15	PK

DESIGNED BY	J HALDERMAN
DRAWN BY	P KULCHAWIK
CHECKED BY	E BALLMAN
IN CHARGE	P KULCHAWIK
DATE	11-25-15

TOT OLD CORP YARD PLANTING PLAN

TRUCKEE WETLANDS RESTORATION

NEVADA COUNTY, CALIFORNIA
TRUCKEE RIVER WATERSHED COUNCIL

PROJECT NUMBER 214128

SCALE 1" = 40'

SHEET 5.5