

CONYERS CREEK HABITAT DIVERSIFICATION
AND ENHANCEMENT PROJECT

100% ADMINISTRATIVE DRAFT SUBMITTAL

DRAFT
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
COLUMBIA SOIL AND WATER
CONSERVATION DISTRICT

COVER

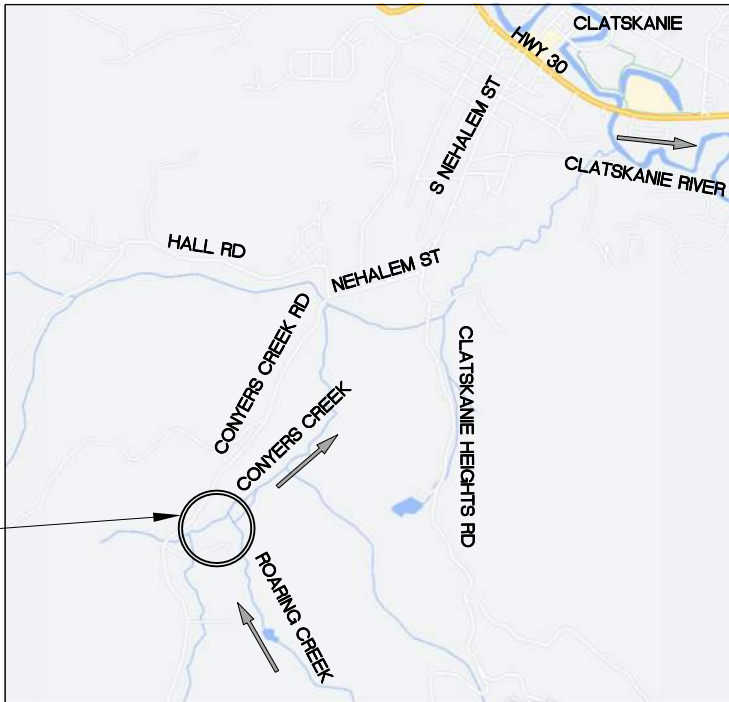
CONYERS CREEK HABITAT
DIVERSIFICATION AND
ENHANCEMENT PROJECT
100% ADMINISTRATIVE
DRAFT SUBMITTAL

DESIGNED BY: D.M./J.H.
DRAWN BY: C.B.
CHECKED BY: J.H.
DATE: 10/12/2026
JOB NO.: 22-051

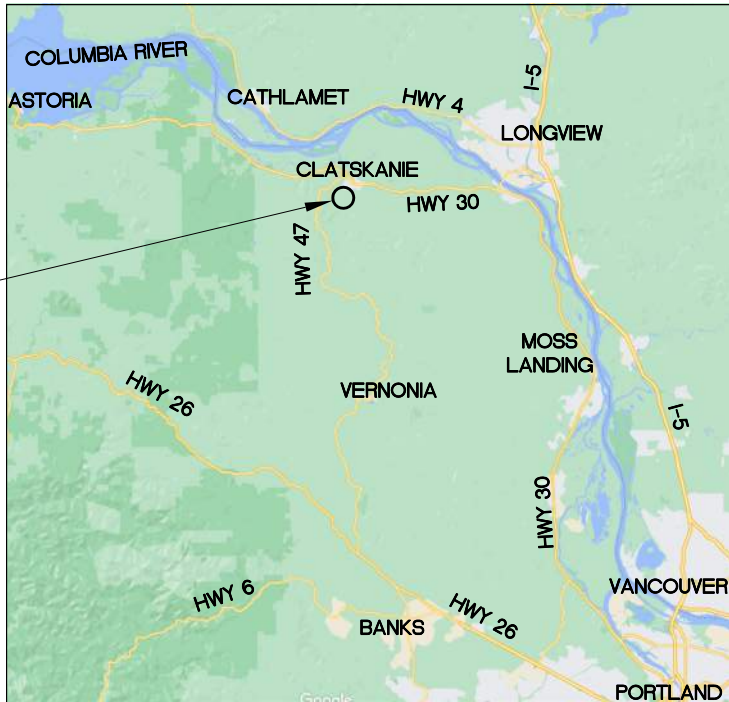
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ADJUST SCALES FOR
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C1

1
OF
18



VICINITY MAP
N.T.S. (GOOGLE)



REGIONAL MAP
N.T.S. (GOOGLE)

GENERAL NOTES

- TOPOGRAPHIC MAPPING WAS PERFORMED BY:
WATERWAYS CONSULTING, INC.
1020 SW TAYLOR STREET, SUITE 380
PORTLAND, OR 97205
SURVEY DATE: NOVEMBER 8 AND 9, 2023; JANUARY 3, 2024; AND OCTOBER 9, 2025.
- LIDAR CONTOURS OUTSIDE OF TOPOGRAPHIC MAPPING AREA WERE PROVIDED BY DOGAMI, 2010.
- ELEVATION DATUM: GPS TIES TO NAVD88 USING THE LEICA GEOSYSTEMS SMARTNET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK.
- BASIS OF BEARINGS: GPS TIES TO NAD83 OREGON STATE PLANE, NORTH USING THE LEICA GEOSYSTEMS SMARTNET GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) NETWORK.
- AERIAL PHOTO SOURCE: AUTOCAD CIVIL3D GEOLOCATION MAP
- CONTOUR INTERVAL IS ONE FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET.
- THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES WERE COMPILED FROM RECORD INFORMATION. THE LOCATION OF THESE LINES IS SUBJECT TO CHANGE, PENDING THE RESULTS OF A COMPLETE BOUNDARY SURVEY.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE STATE OF OREGON STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").
- THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO TECHNICAL SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

* CALL BEFORE YOU DIG *

CONTACT UNDERGROUND SERVICE ALERT (USA)
PRIOR TO ANY CONSTRUCTION WORK 1-800-332-2344

ABBREVIATIONS

AVG.	AVERAGE	T	TREE
CC	CONCRETE	T.B.D.	TO BE DETERMINED
CY	CUBIC YARDS	TYP	TYPICAL
DIA.	DIAMETER	UNK	UNKNOWN
E	EXISTING	WSE	WATER SURFACE ELEVATION
EG	EXISTING GROUND	YR	YEAR
ELEV.	ELEVATION		
DI	DRAINAGE INLET		
FG	FINISHED GRADE		
FT	FEET		
INV	INVERT		
MAX	MAXIMUM		
MIN	MINIMUM		
N	NEW		
NIC	NOT IN CONTRACT		
N.T.S.	NOT TO SCALE		
O.C.	ON CENTER		
RC	RELATIVE COMPACTION		
RSP	ROCK SLOPE PROTECTION		
SPK	SPIKE		
SQ.FT.	SQUARE FOOT		

SECTION AND DETAIL CONVENTION

SECTION OR DETAIL IDENTIFICATION
(NUMBER OR LETTER)



SHEET REFERENCE

PROJECT DESCRIPTION

THESE DRAWINGS PROVIDE DESIGN DETAILS FOR GRADING OF TWO (2) SIDE CHANNELS, INSTALLATION OF LOG STRUCTURES, AND STREAM BANK GRADING TO IMPROVE HABITAT CONDITIONS AND REDUCE EROSION ALONG CONYERS CREEK AND ITS FLOODPLAIN IN COLUMBIA COUNTY, OREGON.

WORK SHALL CONSIST OF EXCAVATION OF SIDE CHANNELS, LAYBACK OF VERTICAL CHANNEL BANKS, CONSTRUCTION OF LOG STRUCTURES AND BEAVER ANALOG STRUCTURES, AND REVEGETATION OF DISTURBED AREAS.

SHEET INDEX

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C4	UPPER REACH PLAN AND PROFILE
C5	EXISTING CONDITIONS PLAN - MIDDLE REACH
C6	MIDDLE REACH PLAN AND PROFILE - NORTH
C7	EXISTING CONDITIONS PLAN - LOWER REACH
C8	LOWER REACH PLAN AND PROFILE
C9	SECTIONS
C10	LOG STRUCTURE DETAILS AND NOTES
C11	LOG STRUCTURE DETAILS
C12	UPPER REACH EROSION CONTROL PLAN
C13	MIDDLE REACH EROSION CONTROL PLAN
C14	LOWER REACH EROSION CONTROL PLAN
C15	EROSION CONTROL DETAILS
C16	REVEGETATION PLAN
C17	NOTES (1 OF 2)
C18	NOTES (2 OF 2)

LEGEND

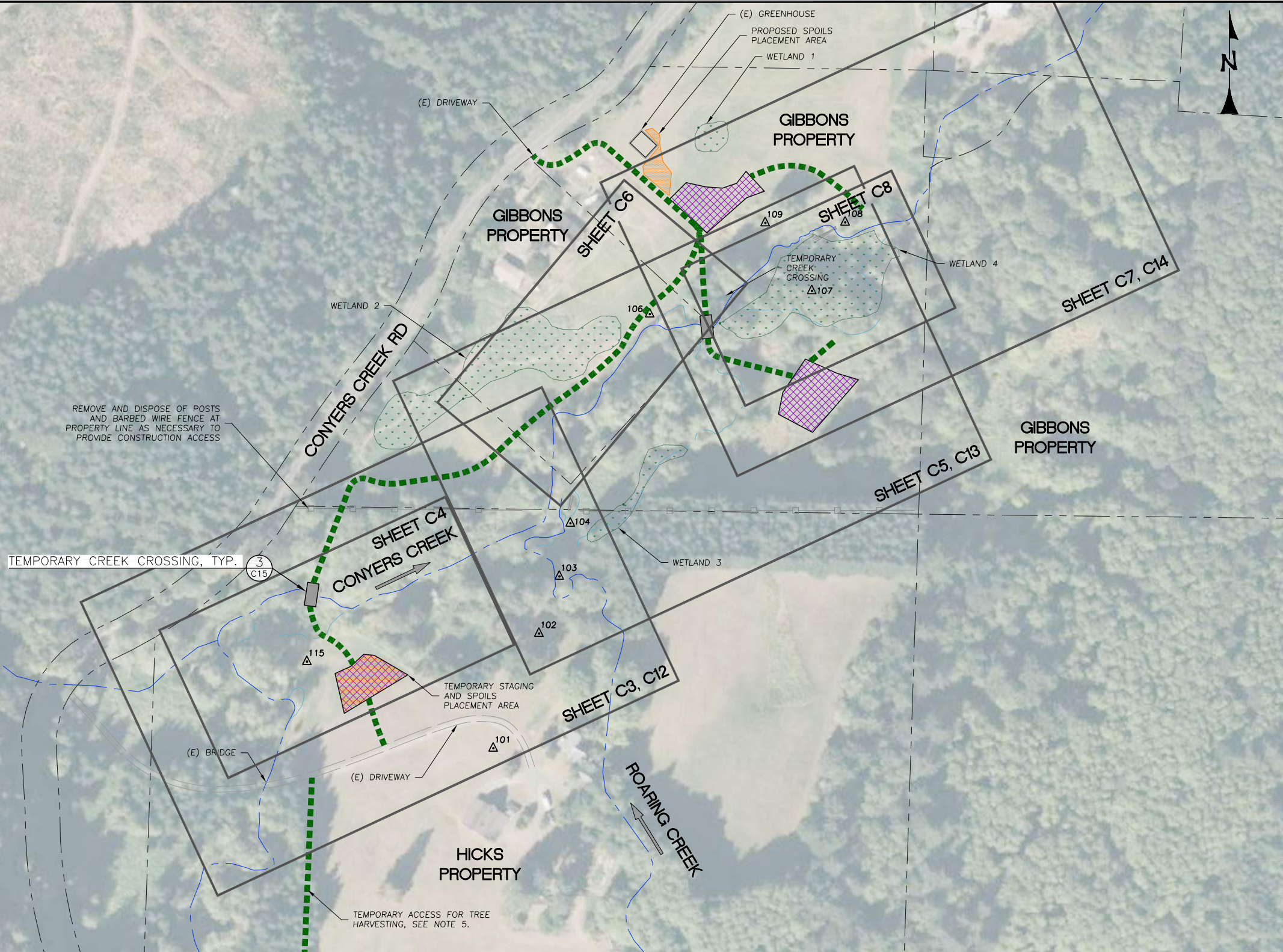
	PARCEL BOUNDARY (APPROX.)
	EXISTING THALWEG LINE
	EXISTING FLOW LINE
	EXISTING ROAD (APPROX.)
	EXISTING BARBED WIRE FENCE (APPROX.)
	SURVEY CONTROL
	TEMPORARY ACCESS ROUTE
	EXISTING WETLAND
	TEMPORARY STAGING AREA
	PROPOSED SPOILS PLACEMENT
	TEMPORARY CREEK CROSSING

CONTROL POINTS

POINT	NORTHING	EASTING	ELEV.	DESC.
101	894130.99	7512374.74	85.18	REBAR
102	894329.73	7512453.92	78.04	REBAR
103	894428.62	7512489.26	69.41	REBAR
104	894520.70	7512508.19	68.00	REBAR
106	894883.01	7512645.77	62.66	REBAR
107	894923.23	7512926.41	56.57	REBAR
108	895041.90	7512984.12	58.68	REBAR
115	894280.99	7512052.02	974.83	REBAR

ACCESS AND STAGING AREA NOTES

- USE ONLY THE APPROVED ACCESS POINTS, AS SHOWN ON THE PLANS. STOCKPILE MATERIALS WITHIN AN EXISTING FLAT AND PREVIOUSLY DISTURBED AREA.
- THE ACCESS PLAN SHOWN ON THE PLANS IS SCHEMATIC. SUBMIT A SITE ACCESS PLAN FOR APPROVAL BY THE ENGINEER, PRIOR TO MOBILIZATION.
- CONTAIN THE DOWNSLOPE PERIMETER OF STAGING OR STOCKPILE AREAS WITH STRAW WATTLES.
- STORE, MAINTAIN AND REFUEL ALL EQUIPMENT AND MATERIALS IN A DESIGNATED PORTION OF THE STAGING AREA.
- TEMPORARY CONSTRUCTION EQUIPMENT ACCESS TO THE SOUTHERN TREE HARVEST AREA SHALL BE LIMITED TO A 15-FOOT WIDE PATH ALONG THE EDGE OF THE TREE LINE.
- DECOMMISSION AND DE-COMPACT ALL TEMPORARY ACCESS ROADS AND STAGING AREAS PRIOR TO SEEDING AND MULCHING.
 - SEE PASTURE SEED TABLE ON SHEET C16.



OVERVIEW, STAGING, AND ACCESS PLAN

SCALE: 1" = 100'

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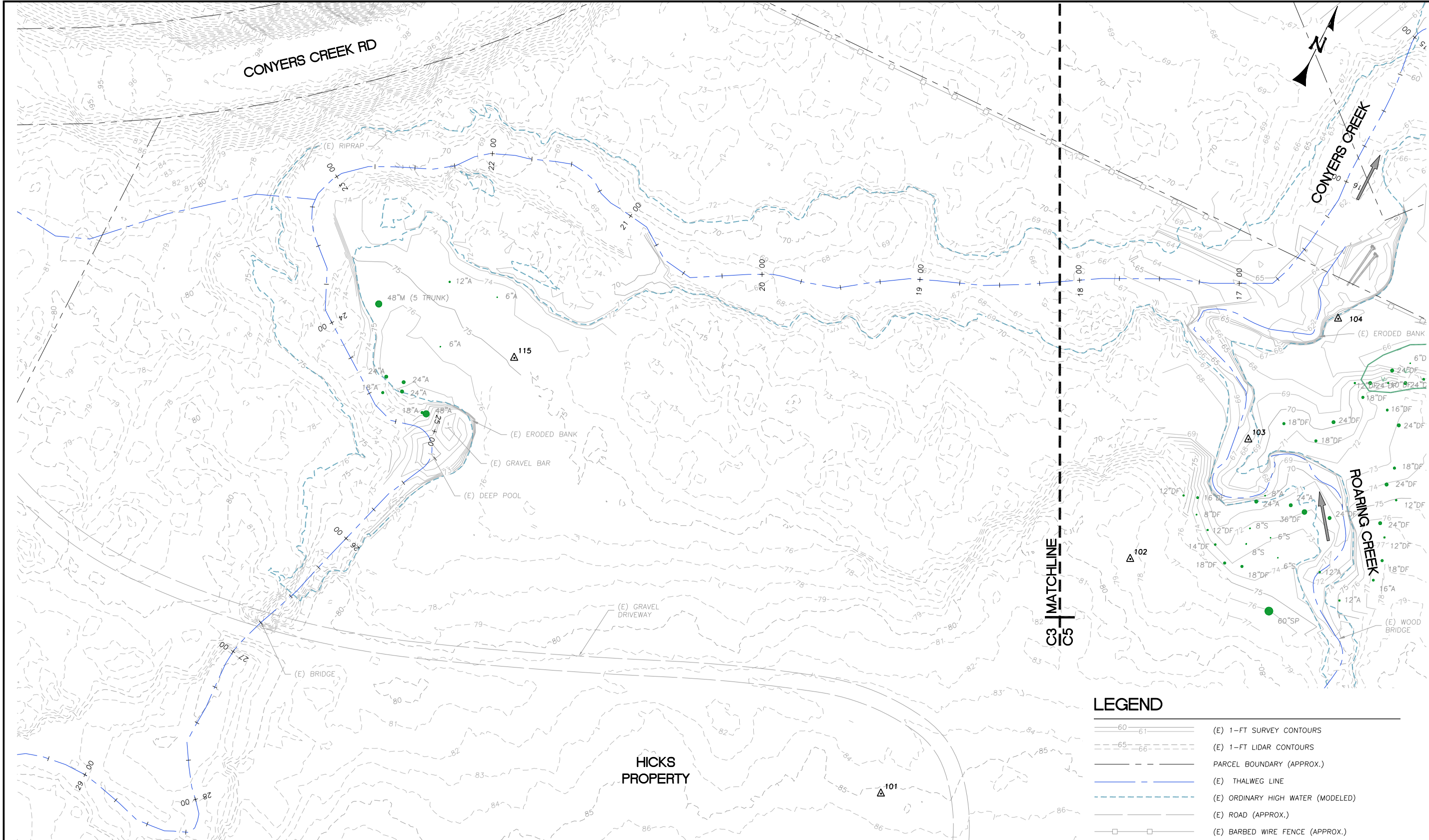
OVERVIEW,
STAGING, AND
ACCESS PLAN

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EXISTING CONDITIONS PLAN - UPPER REACH
SCALE: 1" = 30'

LEGEND

- (E) 1-FT SURVEY CONTOURS
- (E) 1-FT LIDAR CONTOURS
- PARCEL BOUNDARY (APPROX.)
- (E) THALWEG LINE
- (E) ORDINARY HIGH WATER (MODELED)
- (E) ROAD (APPROX.)
- (E) BARBED WIRE FENCE (APPROX.)
- (E) TREE
- SURVEY CONTROL
- (E) FALLEN TREE

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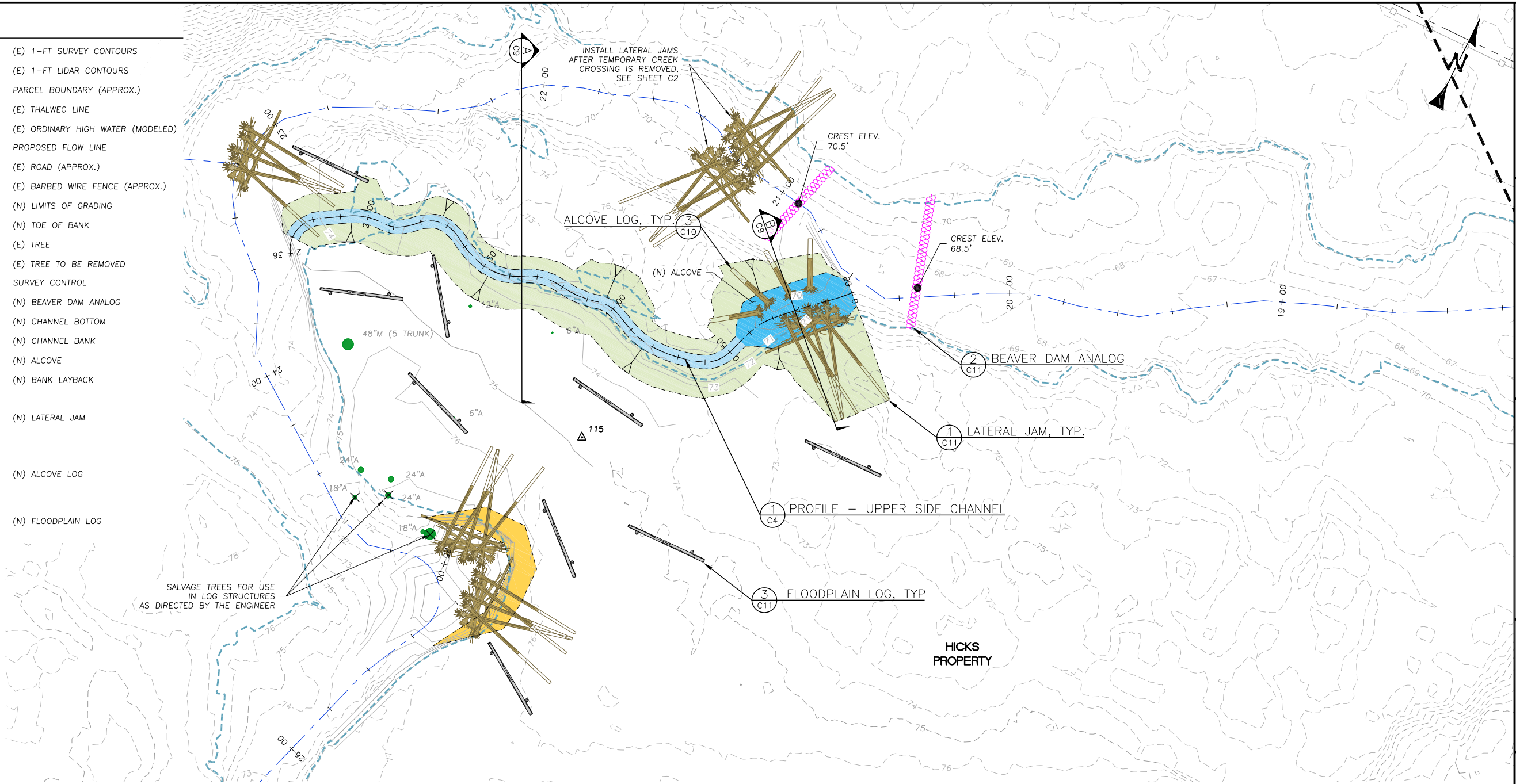
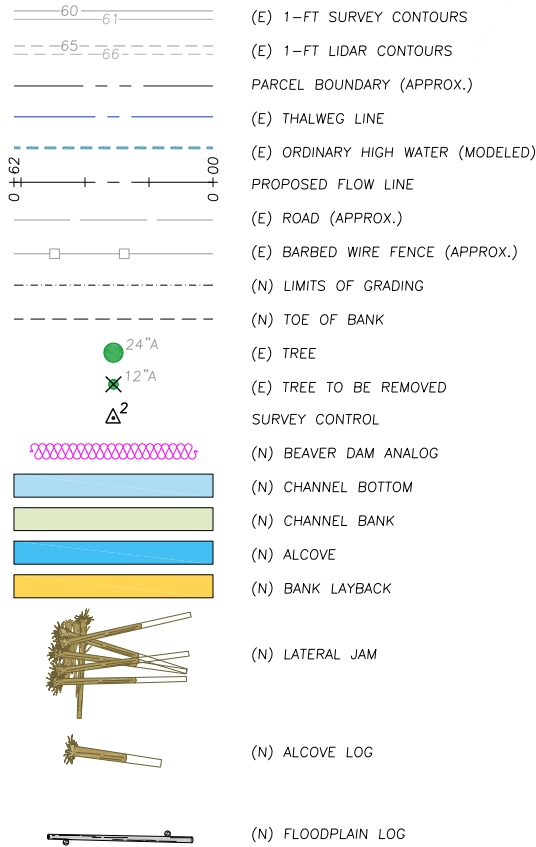
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EXISTING
CONDITIONS
PLAN - UPPER
REACH

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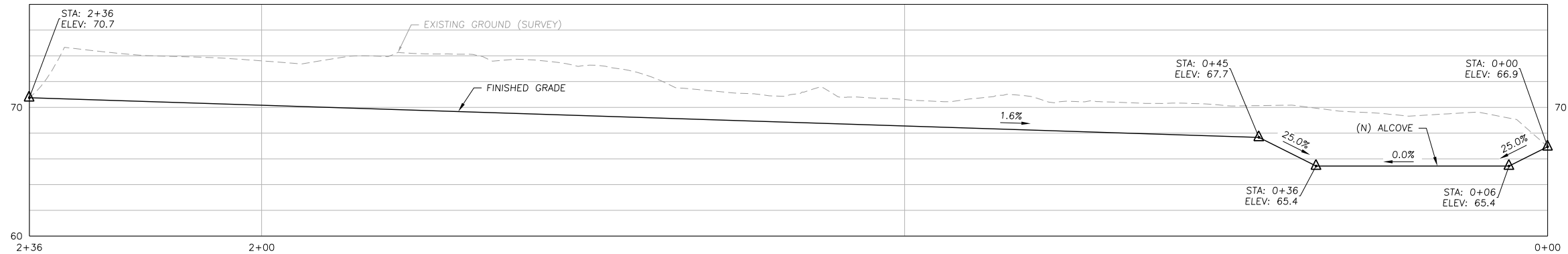
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UPPER REACH PLAN

SCALE: 1" = 20'



PROPOSED PROFILE - UPPER SIDE CHANNEL 1
C4

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UPPER REACH PLAN AND PROFILE

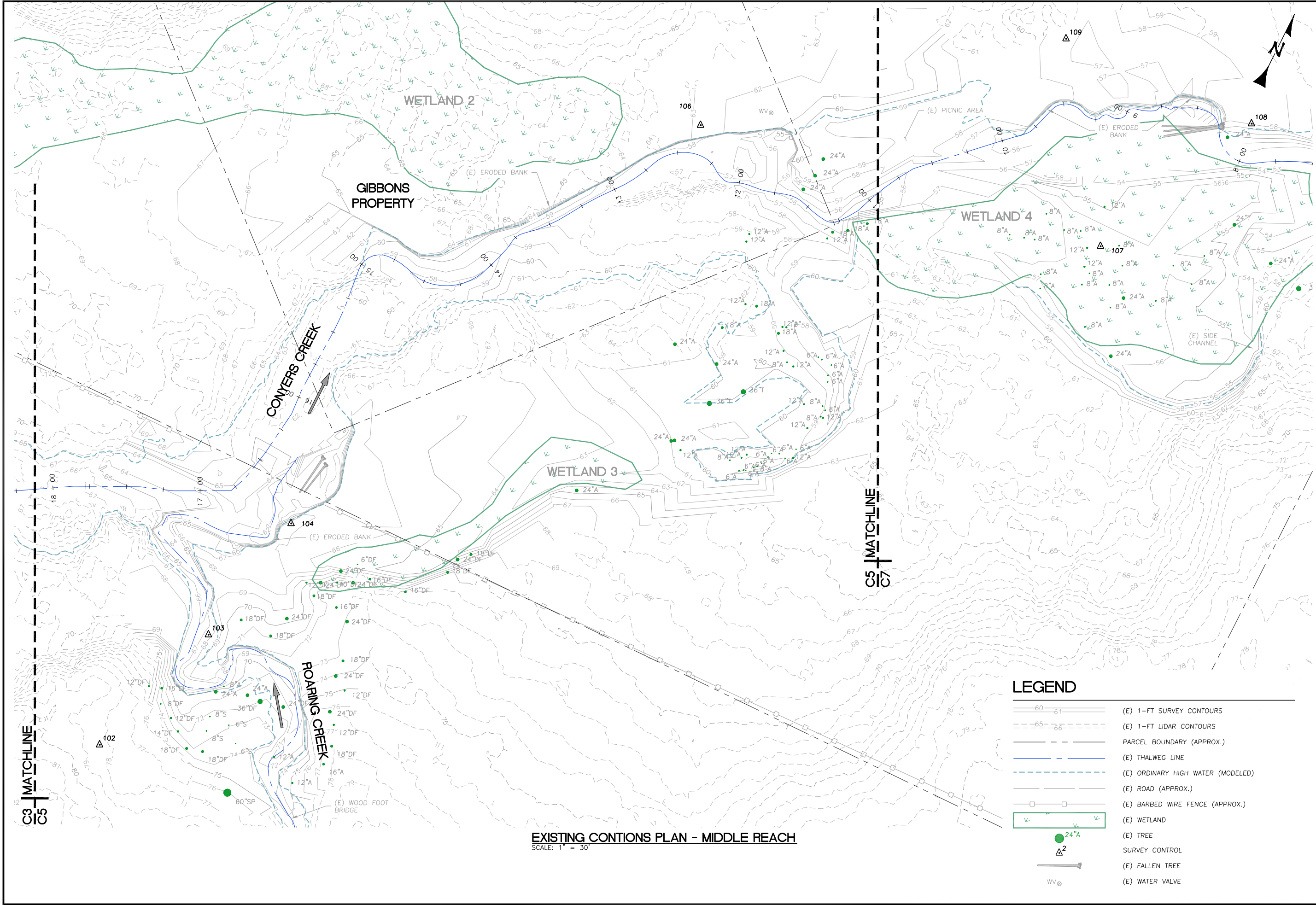
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0  1"

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EXISTING CONTIONS PLAN - MIDDLE REACH
SCALE: 1" = 30'

LEGEND

- 60 61 (E) 1-FT SURVEY CONTOURS
- 65 66 (E) 1-FT LIDAR CONTOURS
- PARCEL BOUNDARY (APPROX.)
- (E) THALWEG LINE
- (E) ORDINARY HIGH WATER (MODELED)
- (E) ROAD (APPROX.)
- (E) BARBED WIRE FENCE (APPROX.)
- (E) WETLAND
- 24"A (E) TREE
- Δ² SURVEY CONTROL
- WV (E) FALLEN TREE
- WV (E) WATER VALVE

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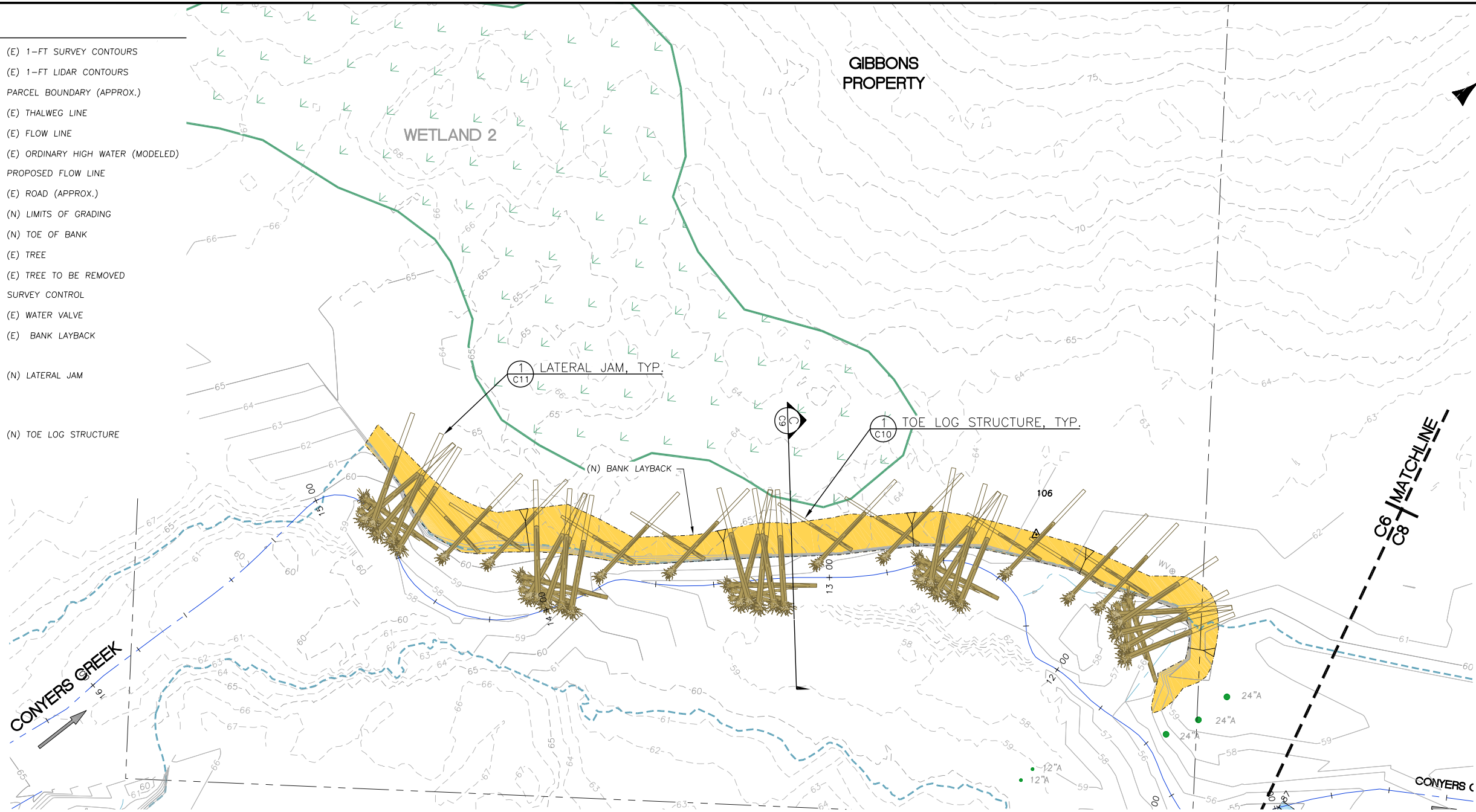
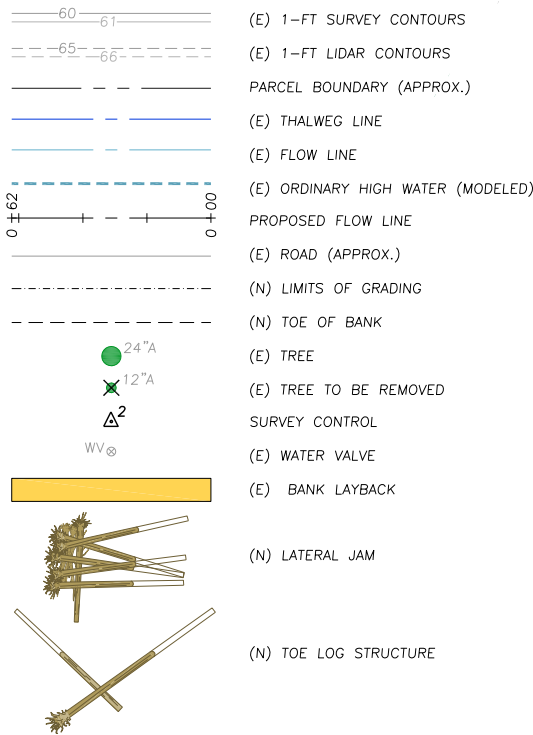
EXISTING
CONTERS PLAN
- MIDDLE REACH

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LEGEND



MIDDLE REACH PLAN
SCALE: 1" = 20'

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MIDDLE REACH
PLAN AND
PROFILE - NORTH

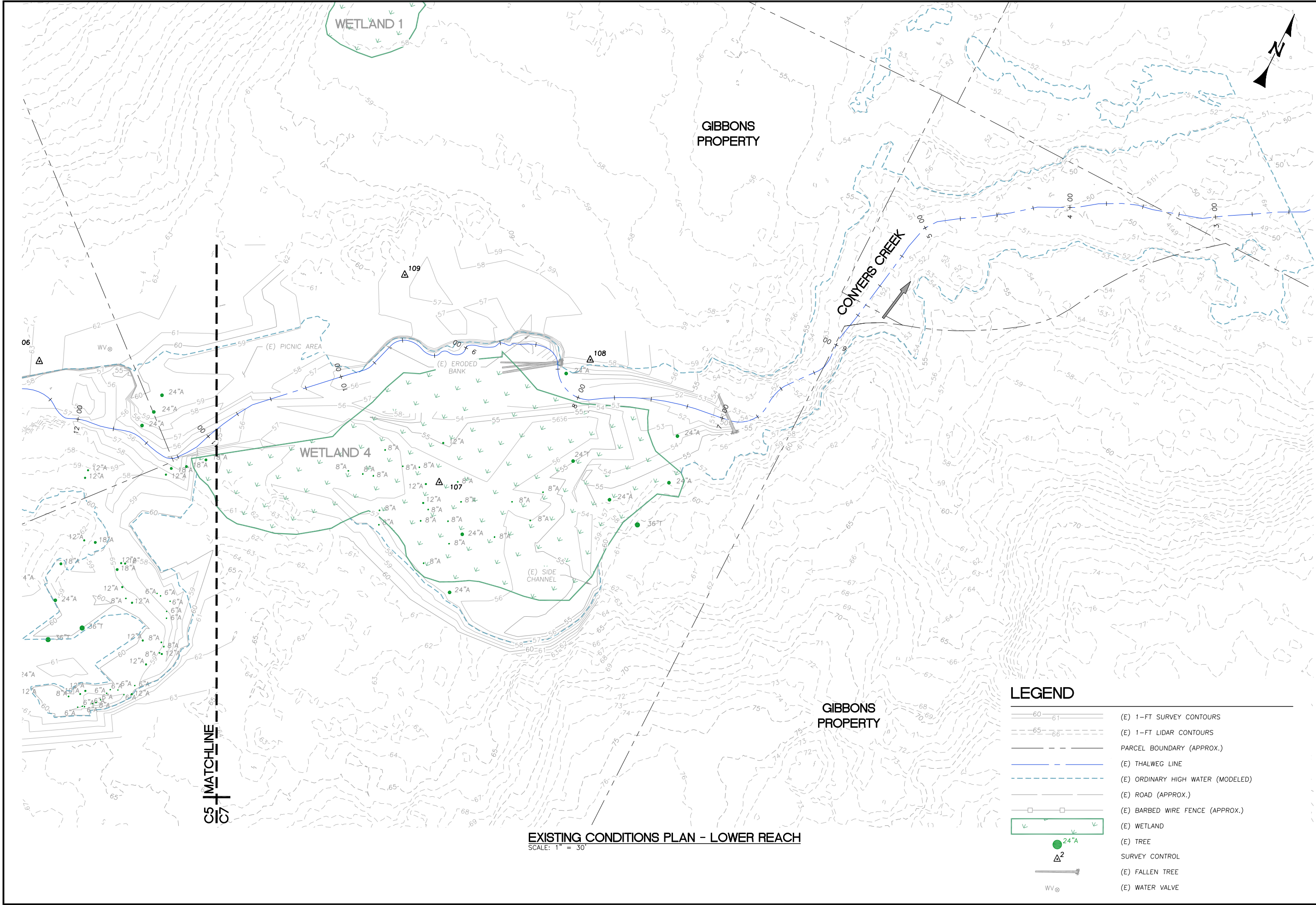
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0 1"

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EXISTING CONDITIONS PLAN - LOWER REACH
SCALE: 1" = 30'

LEGEND

- (E) 1-FT SURVEY CONTOURS
- (E) 1-FT LIDAR CONTOURS
- PARCEL BOUNDARY (APPROX.)
- (E) THALWEG LINE
- (E) ORDINARY HIGH WATER (MODELED)
- (E) ROAD (APPROX.)
- (E) BARBED WIRE FENCE (APPROX.)
- (E) WETLAND
- (E) TREE
- SURVEY CONTROL
- (E) FALLEN TREE
- (E) WATER VALVE

WATERWAYS
CONSULTING INC.

5094 SWIFT ST.
SANTA CRUZ, CA 95060
PH: (831) 421-9291 / FAX: (888) 819-6847
WWW.WATWAYS.COM

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EXISTING
CONDITIONS
PLAN - LOWER
REACH

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0 1" 1"

C7

7
OF
18

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LEGEND

- 60

61

65

66

0+62

0+00

0+62

0+00

24"A

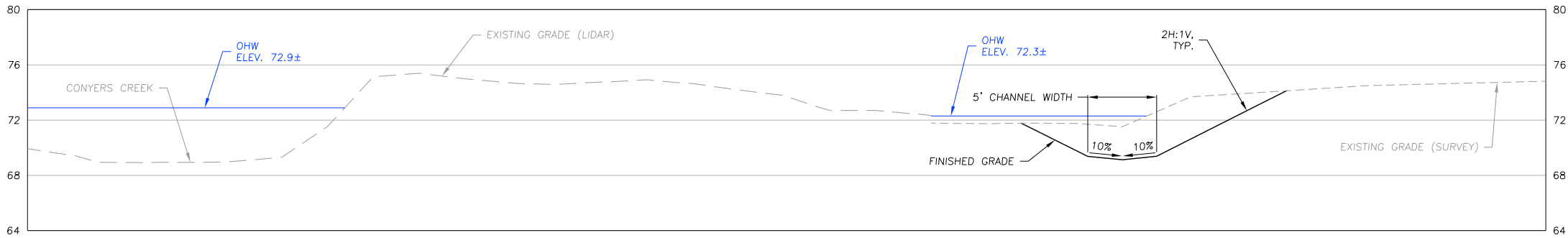
12"A

Δ²

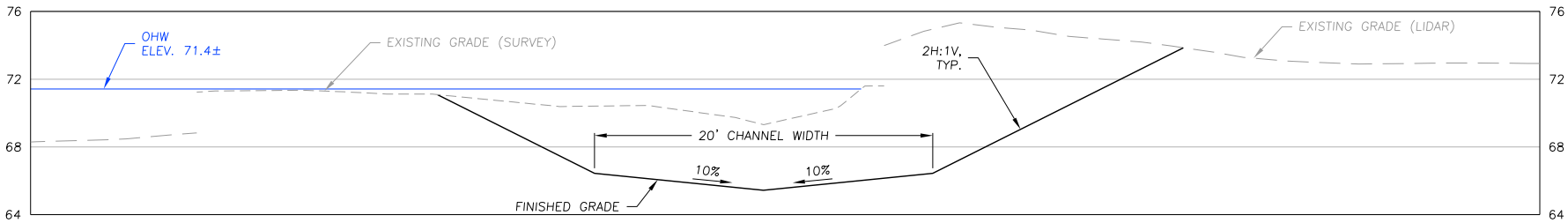
WV

⊗
-

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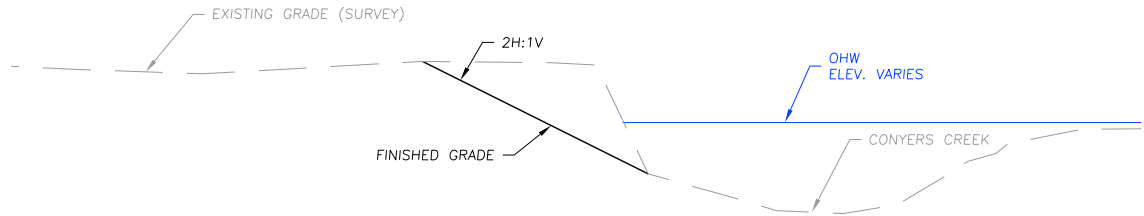


UPPER SIDE CHANNEL SECTION A
C4
SCALE: 1" = 5'

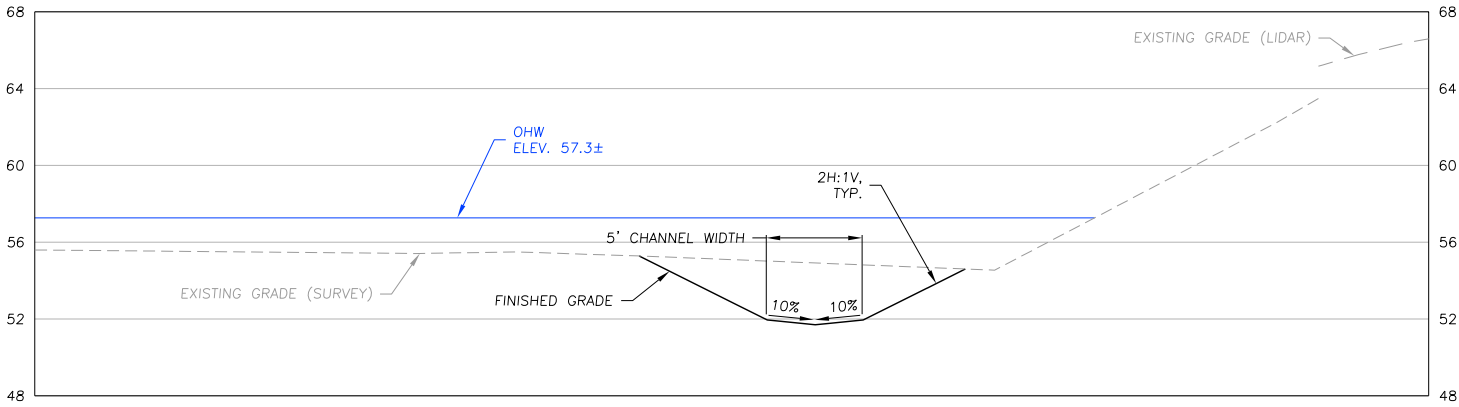


UPPER SIDE CHANNEL ALCOVE SECTION B
C4
SCALE: 1" = 5'

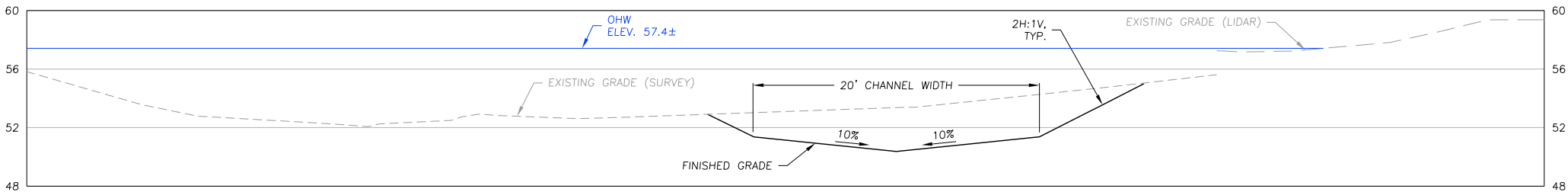
NOTES:
1. LOG STRUCTURES OMITTED FROM SECTION VIEW
FOR GRAPHICAL CLARITY.



TYPICAL SECTION - BANK LAYBACK C
C8
SCALE: 1" = 5'



LOWER SIDE CHANNEL SECTION D
C8
SCALE: 1" = 5'



LOWER SIDE CHANNEL ALCOVE SECTION E
C8
SCALE: 1" = 5'

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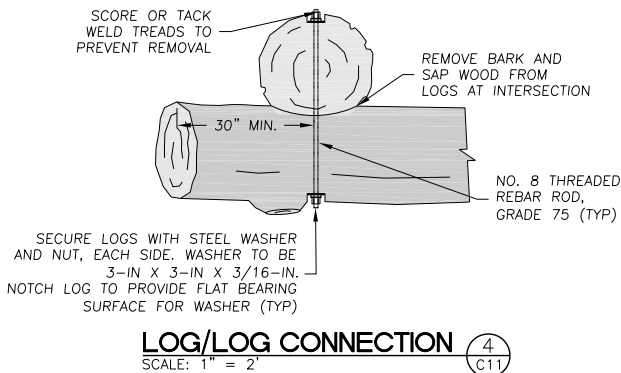
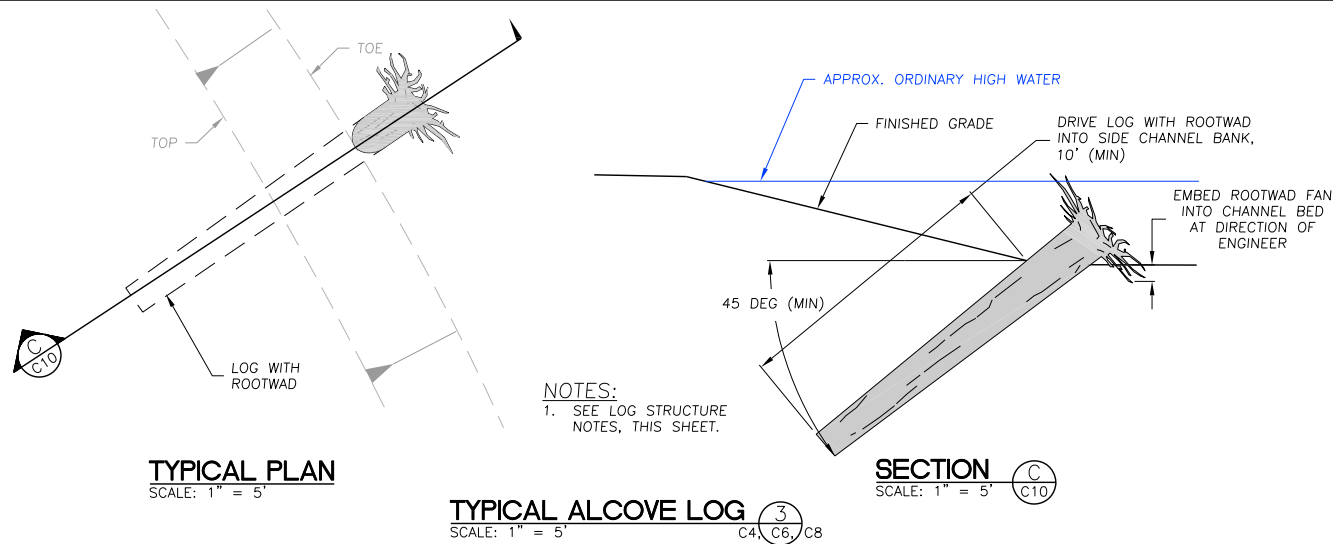
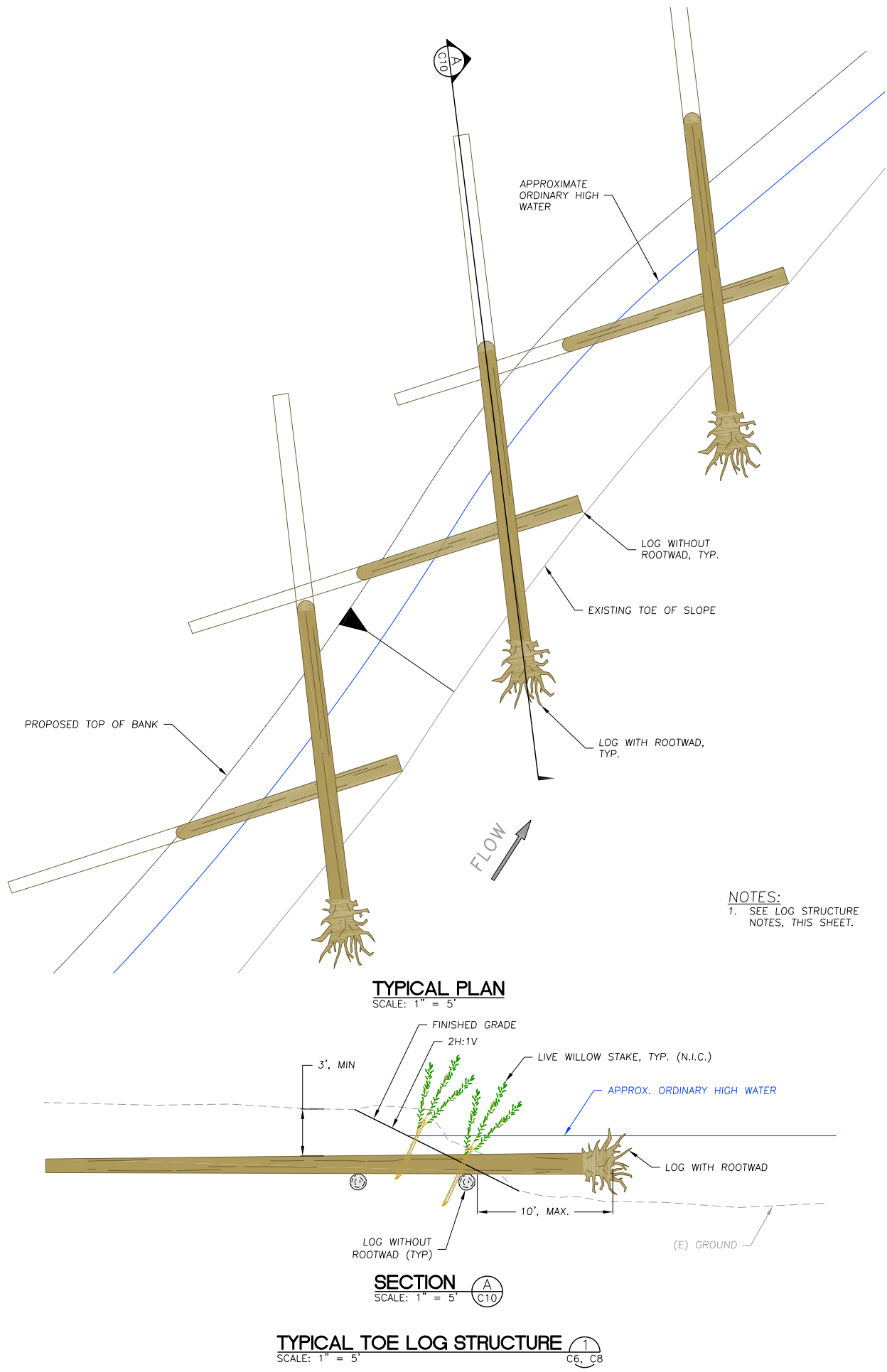
SECTIONS

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0 1"



LOG STRUCTURE NOTES:

1. GENERAL

- PRIOR TO THE START OF WORK, THE ENGINEER SHALL DESIGNATE REPRESENTATIVES AUTHORIZED TO OBSERVE THE CONTRACTOR'S PLACEMENT OF LOG STRUCTURES. CONTRACTOR SHALL NOTIFY THE AUTHORIZED REPRESENTATIVE 72 HOURS PRIOR TO PLACEMENT OF LOG STRUCTURES. CONSTRUCT ALL LOG STRUCTURES IN THE PRESENCE OF THE AUTHORIZED REPRESENTATIVE.
- LOG STRUCTURE DESIGNS ARE SHOWN CONCEPTUALLY DUE TO THE INHERENT VARIABILITY OF MATERIAL PROPERTIES. THE DESIGN REQUIRES THAT THE ENGINEER WILL OBSERVE CONSTRUCTION OF THE LOG STRUCTURES TO ENSURE THE INTENT OF THE DESIGN IS MET. OBSERVATIONS MUST INCLUDE LOG AND BOULDER SELECTION, PLACEMENT, CONNECTIONS FOR BALLASTING, AND PLACEMENT OF BACKFILL. ANY LOG STRUCTURES CONSTRUCTED WITHOUT THE ENGINEER PRESENT MAY RESULT IN REJECTION OF THE WORK BY THE ENGINEER.
- THE CONSTRUCTION OF LOG STRUCTURES REQUIRES EQUIPMENT WHICH CAN PLACE LOGS IN PRECISE LOCATIONS. AN EXCAVATOR OF A SUITABLE SIZE WITH A THUMB OR CLAMSHELL ATTACHMENT IS SUGGESTED (CLAMSHELL PREFERRED).
- LOG PLACEMENT. LOG PLACEMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE AS APPROVED BY THE ENGINEER, OR HIS AUTHORIZED REPRESENTATIVE.
- PLACE ROOTWADS AT AN ELEVATION WHERE THE MAJORITY OF THE ROOT MASS IS BELOW ORDINARY LOW WATER, AS APPROVED BY THE ENGINEER.
- ALL EXPOSED ENDS OF LOGS SHALL BE BROKEN OR ROUGHENED TO CREATE NATURAL APPEARANCE AS DIRECTED BY THE ENGINEER. CUT LOG ENDS SHALL ONLY BE USED IN LOCATIONS WHERE THE END WILL BE BURIED.

2. LOGS: LOGS SHALL BE HEMLOCK OR DOUGLAS FIR, SOUND AND FREE OF SIGNIFICANT DECAY. MATERIALS FOR USE IN THE STRUCTURES SHALL MEET THE FOLLOWING SIZE CRITERIA:

3. LOG DIMENSIONS AND QUANTITIES:

LATERAL JAM (13)	*DIAMETER (IN.)	**LENGTH (FT.)	PER STRUCTURE	TOTAL
LOGS WITH ROOTWAD	12	30	5	65
FOOTER LOG WITH ROOTWAD	12	20	1	13
PILE LOG	12	20	8	104
SLASH	-	-	8 CY	104 CY
LOG/LOG CONNECTION	-	-	11	143

FLOODPLAIN LOG STRUCTURE (9)	*DIAMETER (IN.)	**LENGTH (FT.)	PER STRUCTURE	TOTAL
LOGS WITHOUT ROOTWAD	12	30	1	9
PILE LOG	12	15	2	18
LOG/LOG CONNECTION	-	-	2	18

TOE LOG STRUCTURE (18)	*DIAMETER (IN.)	**LENGTH (FT.)	PER STRUCTURE	TOTAL
LOGS WITH ROOTWAD	15	40	1	18
LOG WITHOUT ROOTWAD	12	30	1	18

ALCOVE LOG (8)	*DIAMETER (IN.)	**LENGTH (FT.)	PER STRUCTURE	TOTAL
LOGS WITH ROOTWAD	12	30	1	8

BEAVER DAM ANALOG (3)	*DIAMETER (IN.)	**LENGTH (FT.)	PER STRUCTURE	TOTAL
LOGS WITH ROOTWAD	4	6	VARIES	107

*ALL LOGS WITH ROOTWADS SHALL MEET THE MINIMUM DIAMETER LISTED IN THE TABLE ABOVE AS MEASURED AT THE APPROXIMATE STANDING TREE DIAMETER AT BREAST HEIGHT. ALL LOGS WITHOUT ROOTWADS SHALL MEET THE MINIMUM DIAMETER LISTED IN THE TABLE ABOVE AT ANY POINT ALONG THE LENGTH OF THE LOG, NOT INCLUDING THE ROOTWAD.

**LENGTHS LISTED IN THE TABLE ABOVE INCLUDE THE ROOTWAD WHERE SPECIFIED.

4. SLASH

- SLASH SHALL CONSIST OF WOODY DEBRIS (BRANCHES AND LOGS LESS THAN 10 INCHES IN DIAMETER, AND ROOTWADS) OF NATIVE TREES AND SHRUBS PACKED INTO THE VOID SPACES OF THE LOG STRUCTURES WHERE SHOWN ON PLANS.

5. CONNECTIONS:

- CONNECTIONS SHALL CONSIST OF LOG/LOG CONNECTIONS, AS SHOWN IN DETAIL 4/C10.

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**LOG STRUCTURE
DETAILS AND
NOTES**

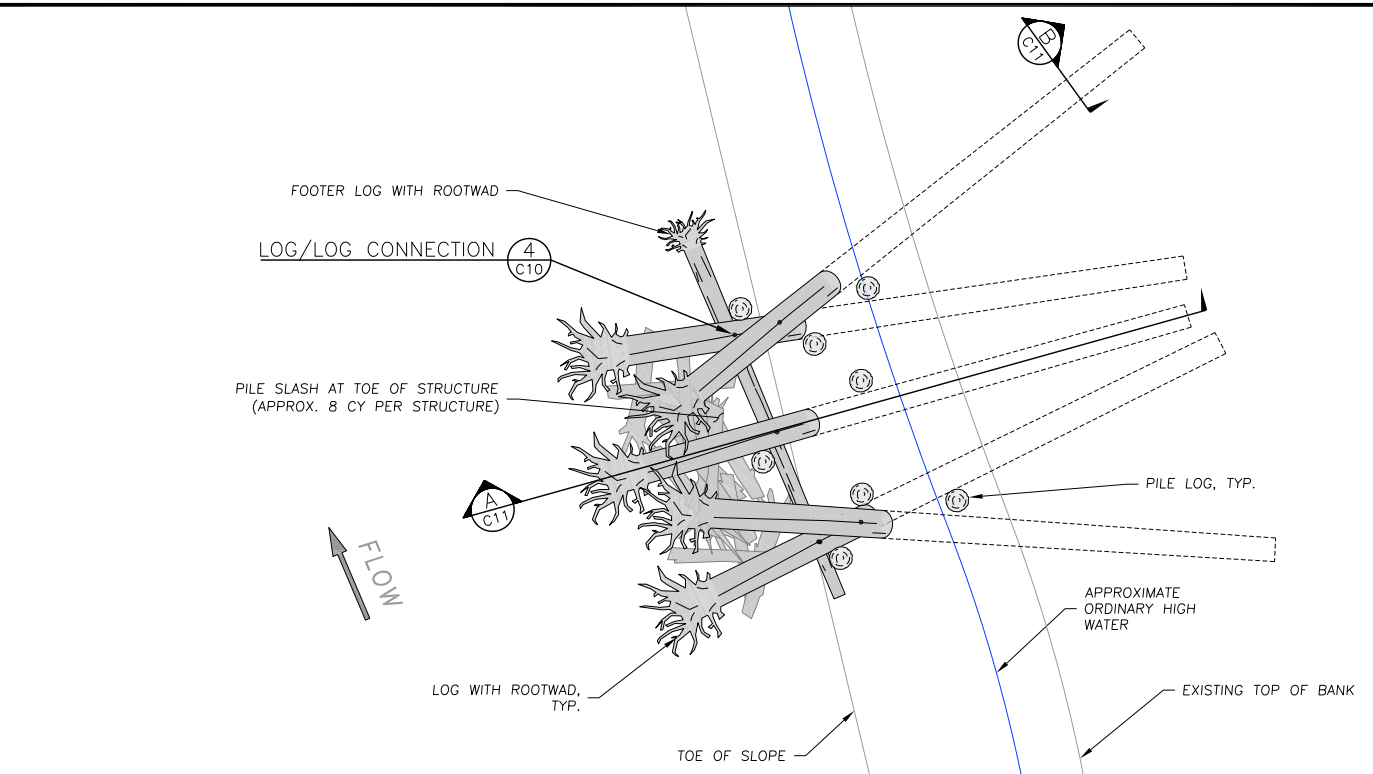
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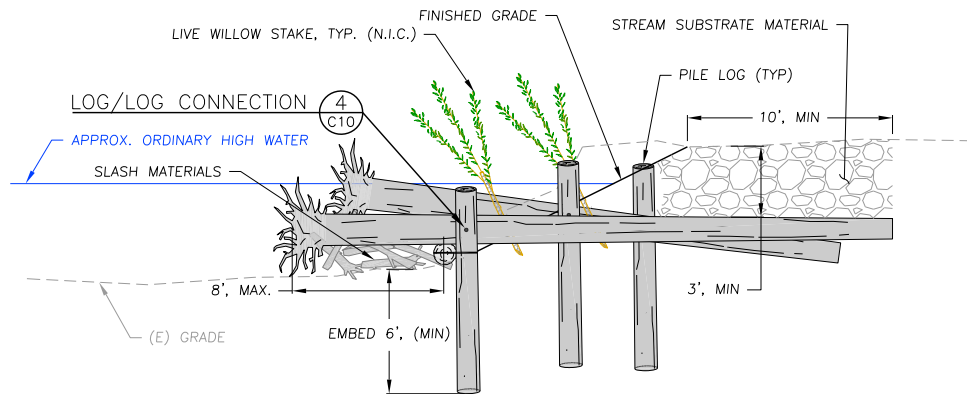
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C10 OF 18

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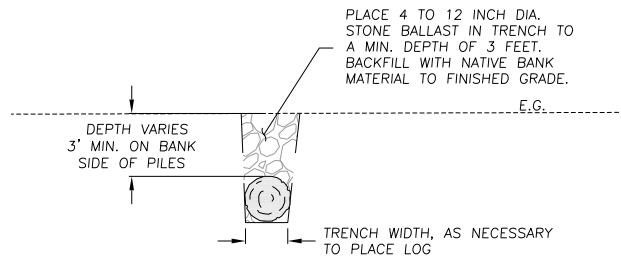
TYPICAL PLAN
SCALE: 1" = 5'

NOTES:
1. SEE LOG STRUCTURE NOTES, SHEET C10.



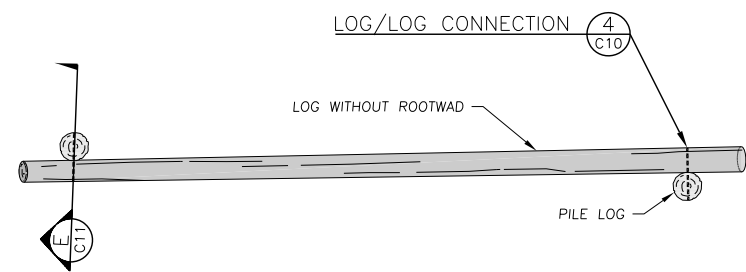
SECTION A
SCALE: 1" = 5' C11

TYPICAL LATERAL JAM
SCALE: 1" = 5' C4, C6, C8

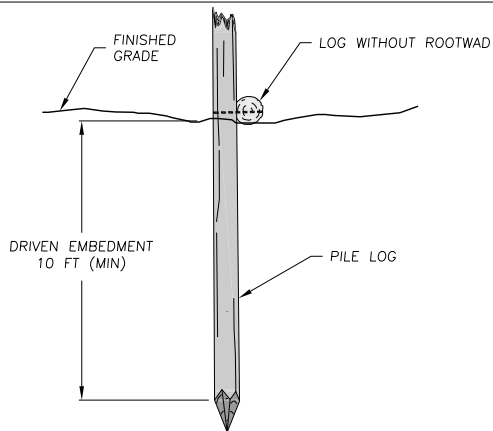


SECTION B
SCALE: 1" = 5' C11

NOTES:
1. SEE LOG STRUCTURE NOTES, SHEET C10.

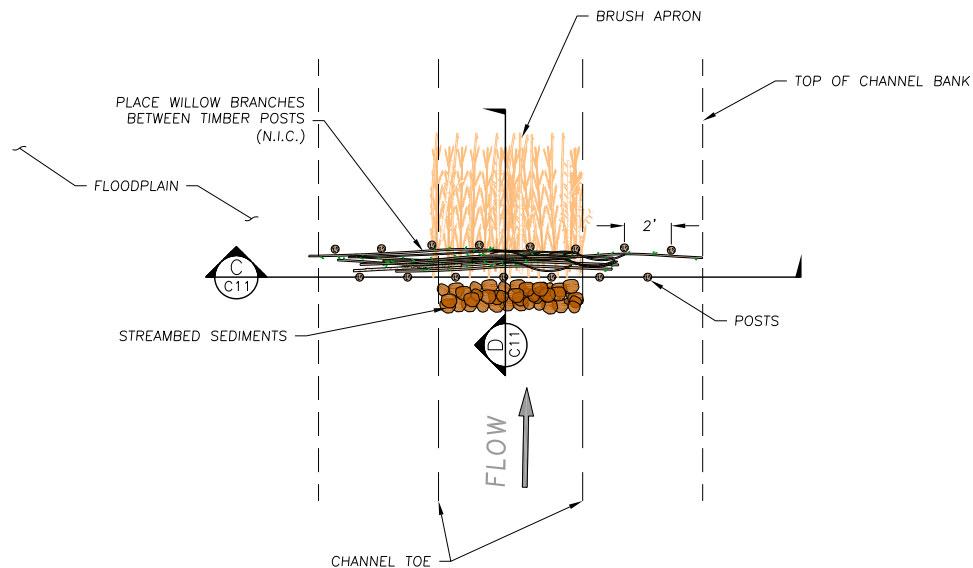


PLAN VIEW
SCALE: 1" = 4'

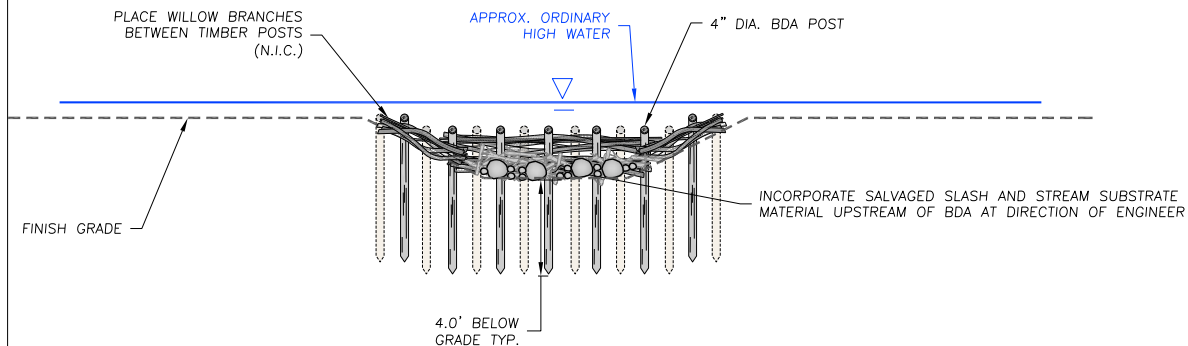


PILE LOG SECTION
SCALE: 1" = 4' C11

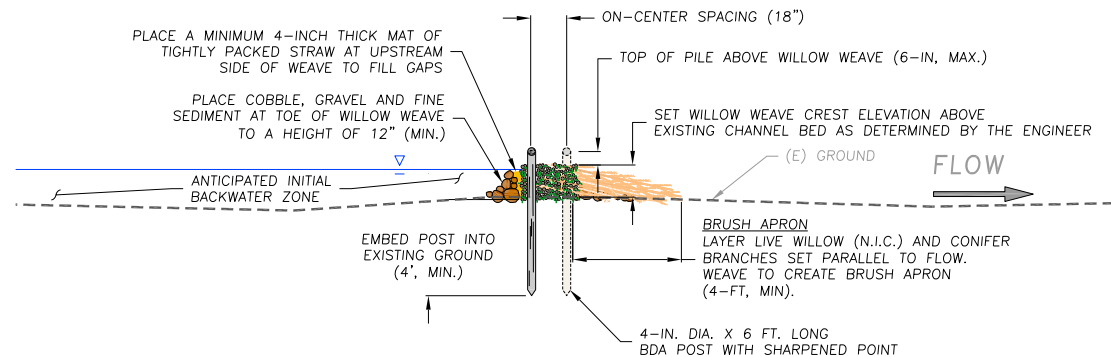
TYPICAL FLOODPLAIN LOG STRUCTURE
SCALE: 1" = 4' C3 C4



PLAN
SCALE: 1" = 4'



BEAVER DAM SECTION
SCALE: 1" = 4' C C11



BEAVER DAM PROFILE
SCALE: 1" = 4' D C11

BEAVER DAM ANALOG
SCALE: 1" = 4' C6, C8

DRAFT
NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
**COLUMBIA SOIL AND WATER
CONSERVATION DISTRICT**

**LOG STRUCTURE
DETAILS**

**CONYERS CREEK HABITAT
DIVERSIFICATION AND
ENHANCEMENT PROJECT
100% ADMINISTRATIVE
DRAFT SUBMITTAL**

DESIGNED BY: D.M./J.H.
DRAWN BY: C.B.
CHECKED BY: J.H.
DATE: 10/12/2026
JOB NO.: 22-051

BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALES FOR
REDUCED PLOTS

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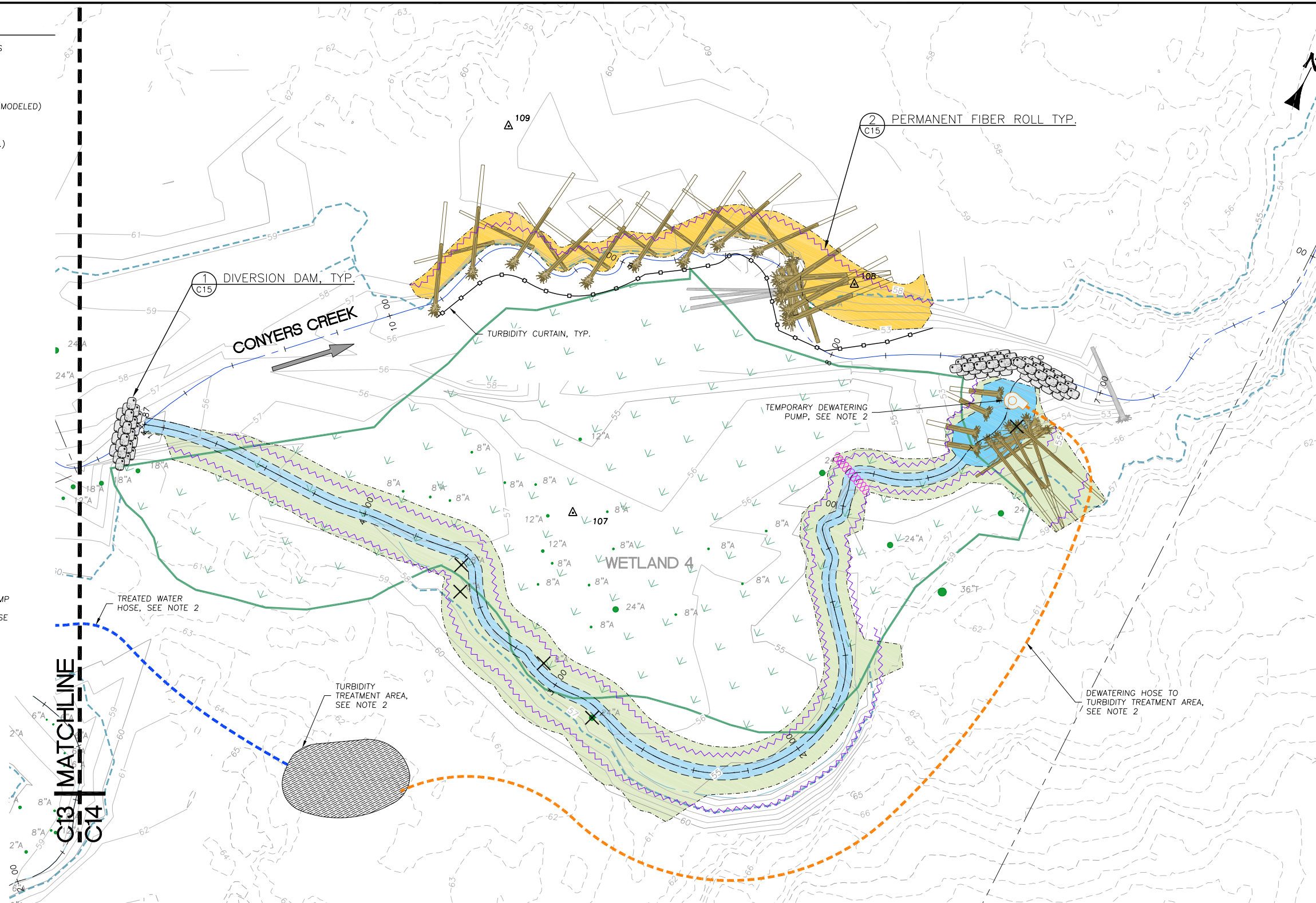
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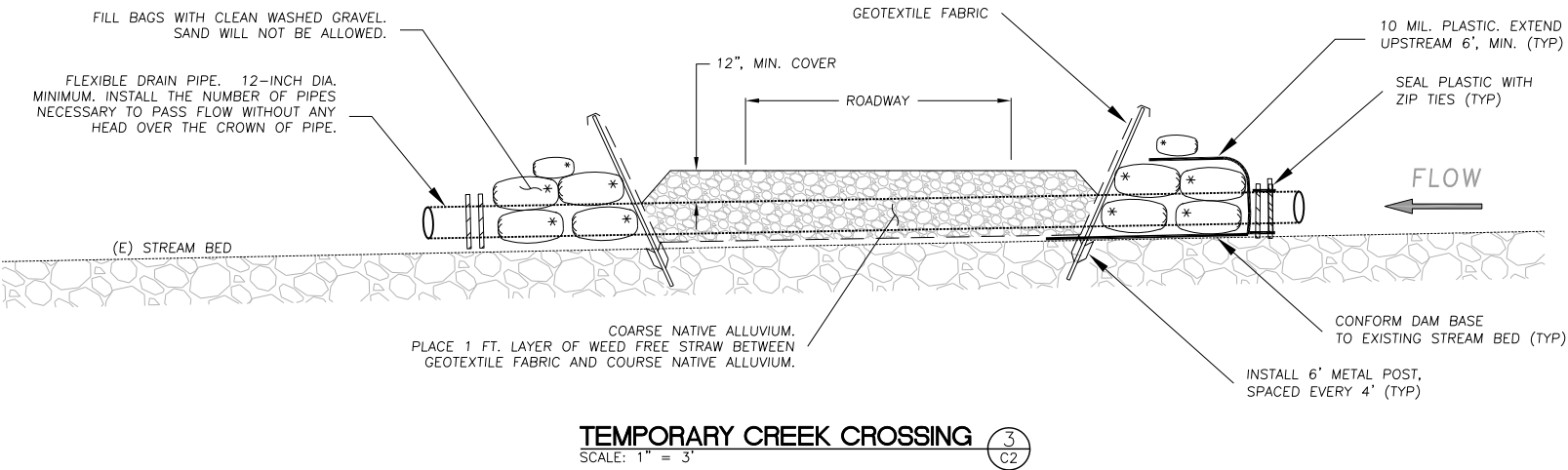
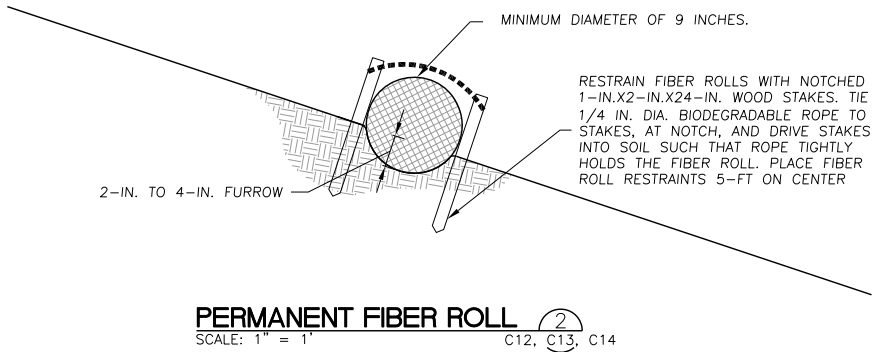
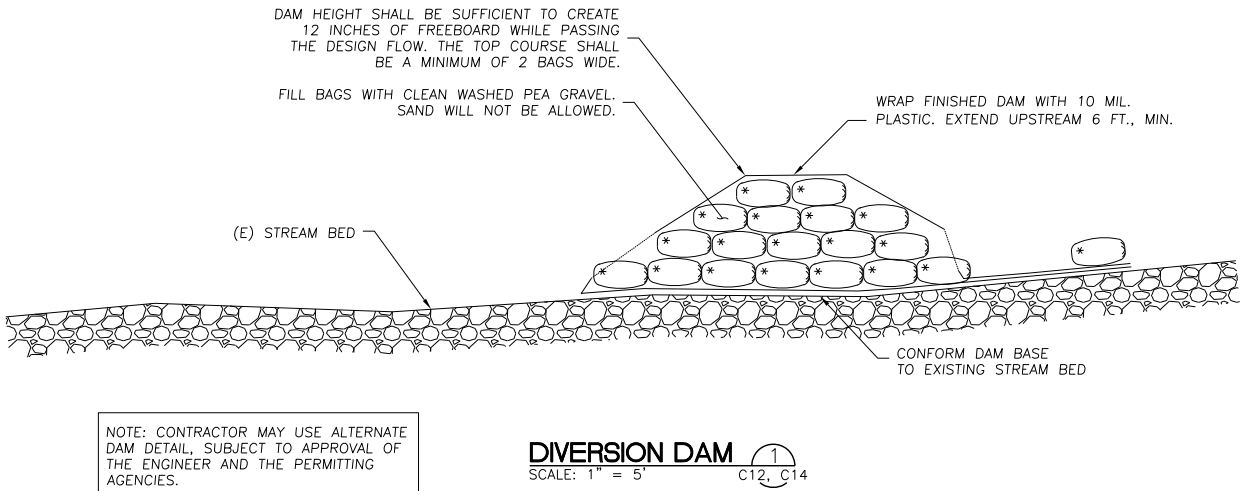
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F:\Projects\22-051-Conyers-Creek-at-Gibbons-Property\CAD\22-051 DETAILS.dwg - 10/12/2026 5:32 PM



F:\Projects\22-051-Conyers-Creek-at-Gibbons-Property\CAD\22-051 REVEG PLAN.dwg - 10/12/2026 5:20 PM

LEGEND

- PARCEL BOUNDARY (APPROX.)
- EXISTING THALWEG LINE
- EXISTING ROAD (APPROX.)
- Δ²

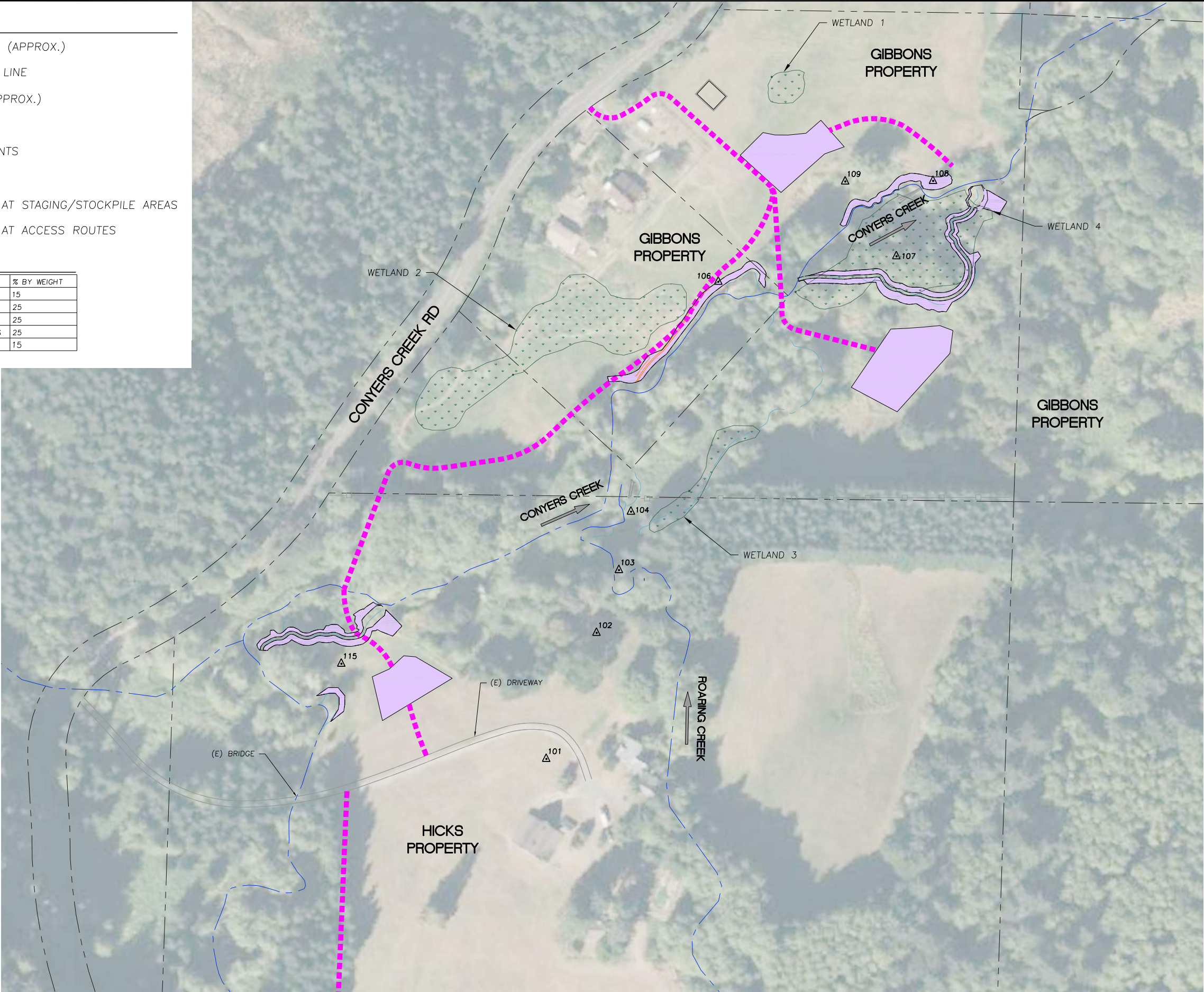
SURVEY CONTROL
- (N) GRADING EXTENTS
- (E) WETLAND
- PASTURE SEEDING AT STAGING/STOCKPILE AREAS
- PASTURE SEEDING AT ACCESS ROUTES

TABLE 6: PASTURE SEED

BOTANICAL NAME	COMMON NAME	% BY WEIGHT
DACTYLIS GLOMERATA	ORCHARDGRASS	15
TRIFOLIUM INCARNATUM	CRIMSON CLOVER	25
FESTUCA ARUNDINACEA	TALL FESCUE	25
LOLIUM PERENNE	PERENNIAL RYEGRASS	25
PHLEUM PRATENSE	TIMOTHY	15

NOTES:

1. ACRES: 1.15 ACRES
- POUNDS PER ACRE: 25 LBS/AC
- TOTAL POUNDS: 29 LBS



REVEGETATION PLAN

SCALE: 1" = 80'

NOTES:

1. SEE SHEET ### FOR REVEGETATION TABLES WITH SEED MIXES AND PLANT SPECIFICATIONS.



DRAFT

NOT FOR CONSTRUCTION

PREPARED AT THE REQUEST OF:
COLUMBIA SOIL AND WATER
CONSERVATION DISTRICT

REVEGETATION
PLAN

CONYERS CREEK HABITAT
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ORIGINAL DRAWING.
ADJUST SCALES FOR
REDUCED PLOTS

GENERAL NOTES

1. PREPARED AT THE REQUEST OF:
COLUMBIA SOIL AND WATER CONSERVATION DISTRICT
35285 MILLARD RD
ST. HELENS, OR 97051

2. THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES WERE COMPILED FROM RECORD INFORMATION AND FROM FIELD TIES TO EXISTING BOUNDARY MONUMENTATION. THE LOCATION OF THESE LINES IS SUBJECT TO CHANGE, PENDING THE RESULTS OF A COMPLETE BOUNDARY SURVEY.

3. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE LATEST EDITION OF THE STATE OF OREGON STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREAFTER REFERRED TO AS "STANDARD SPECIFICATIONS").

4. THESE DESIGNS ARE NOT COMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.

5. NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS, AS NECESSARY TO ENSURE PROPER INSTALLATION PROCEDURES.

6. EXISTING UNDERGROUND UTILITY LOCATIONS:

A. CALL UNDERGROUND SERVICE ALERT (1-800-642-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCING CONSTRUCTION.

B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.

C. EXISTING UTILITY LOCATIONS SHOWN ARE COMPILED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM FIELD MEASUREMENTS TO ABOVE GROUND FEATURES READILY VISIBLE AT THE TIME OF SURVEY. LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND DEPTH OF UNDERGROUND UTILITIES.

D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.

E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.

F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.

G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WRITING.

H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.

7. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

8. ALL TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.

9. PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.

12. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL. NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOR THE PRESENCE OF CONSULTANT OR THEIR OR HER EMPLOYEES OR SUB-CONSULTANTS AT A CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO,
- CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REGULATORY AGENCY OR OF STATE LAW.
13. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION AS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD WITH A BASIS FOR THE PREPARATION OF RECORD DRAWINGS.

14. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS WITHIN APPROVED STAGING AREAS.

15. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL PERMIT CONDITIONS, LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS, WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.

16. PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS.

17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED.

18. FIELD INSPECTIONS AND OR THE PROVISION OF CONSTRUCTION STAKES DO NOT RELIEVE THE CONTRACTOR OF THEIR SOLE RESPONSIBILITY FOR ESTABLISHING ACCURATE CONSTRUCTED LINES AND GRADES, AS SPECIFIED.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS. DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR.

20. THE OWNER SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL PROPERTY LINES AND EASEMENTS AND CONFIRMING THAT PROPOSED PROJECT ELEMENTS ARE LOCATED ON DISTRICT OWNED LANDS OR ARE COORDINATED WITH OWNERS AND APPROPRIATE PERMISSIONS ARE GRANTED FOR THE WORK.

21. TREE DIMENSIONS: TRUNK DIAMETERS SHOWN REPRESENT DIAMETER AT BREAST HEIGHT (DBH), MEASURED IN INCHES. DBH IS MEASURED 4.5 FT ABOVE GROUND FOR SINGLE TRUNKS AND TRUNKS THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND. THE DBH FOR TREES THAT SPLIT INTO SEVERAL STEMS CLOSE TO THE GROUND MAY BE CONSOLIDATED INTO A SINGLE DBH BY TAKING THE SQUARE ROOT OF THE SUM OF ALL SQUARED STEM DBH'S, UNLESS OTHERWISE NOTED. WHERE TREES FORK NEAR BREAST HEIGHT, TRUNK DIAMETER IS MEASURED AT THE NARROWEST PART OF THE MAIN STEM BELOW THE FORK. FOR TREES ON A SLOPE, BREAST HEIGHT IS REFERENCED FROM THE UPPER SIDE OF THE SLOPE. FOR LEANING TREES, BREAST HEIGHT IS MEASURED ON THE SIDE THAT THE TREE LEANS TOWARD. TREES WITH DBH LESS THAN 8" ARE TYPICALLY NOT SHOWN.
- 12"P = 12" DBH PINE
22. TREE SPECIES ARE IDENTIFIED WHEN KNOWN. HOWEVER, FINAL DETERMINATION SHOULD BE MADE BY A QUALIFIED BOTANIST. REFER TO THE LEGEND FOR TREE SPECIES SYMBOLS.

23. TREE TRUNK DIMENSIONS MAY BE SHOWN OUT-OF-SCALE FOR PLOTTING CLARITY. CAUTION SHOULD BE USED IN DESIGNING NEAR TREE TRUNKS. THERE ARE LIMITATIONS ON FIELD ACCURACY, DRAFTING ACCURACY, MEDIUM STRETCH AS WELL AS THE "SPREAD" OR "LEANING" OF TREES. REQUEST ADDITIONAL TOPOGRAPHIC DETAIL WHERE CLOSE TOLERANCES ARE ANTICIPATED. INDIVIDUAL TREES ARE NOT TYPICALLY LOCATED WITHIN DRIPLINE CANOPY AREAS SHOWN.

24. APPROXIMATE CENSUS OF TREES TO BE REMOVED:

COMMON NAME	NUMBER
ALDER	3

25. WILLOWS TO BE REMOVED SHALL BE TRIMMED, TRANSPLANTED, AND UTILIZED IN THE REVEGETATION PLAN.

26. ALL STANDARD STREET MONUMENTS, LOT CORNER PIPES, AND OTHER PERMANENT MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED AND A RECORD OF SURVEY OR CORNER RECORD PER COUNTY AND STATE STANDARDS.

27. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

28. CULTURAL RESOURCES: IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHALL CEASE WITHIN A 100-FOOT RADIUS AND CONTACT THE CLIENT AND COUNTY CORONER IMMEDIATELY.
- EARTHWORK NOTES
1. GRADING VOLUME SUMMARY:

UPPER REACH	MIDDLE REACH	LOWER REACH
CUT = 504.7 CY	CUT = 260.9 CY	CUT = 852.2 CY
FILL = 0.0 CY	FILL = 0.0 CY	FILL = 0.0 CY
NET (CUT) = 504.7 CY	NET (CUT) = xxx CY	NET (CUT) = 852.2 CY

TOTAL NET (CUT) = 1,617.8 CY
- THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING PURPOSES ONLY. EXISTING GROUND IS DEFINED BY THE TOPOGRAPHIC CONTOURS AND/OR SPOT ELEVATIONS ON THE PLAN. PROPOSED FINISH GRADE IS DEFINED AS THE DESIGN SURFACE ELEVATION OF WORK TO BE CONSTRUCTED. THE QUANTITIES HAVE NOT BEEN FACTORED TO INCLUDE ALLOWANCES FOR BULKING, CLEARING AND GRUBBING, SUBSIDENCE, SHRINKAGE, OVER EXCAVATION, AND RECOMPACTION, UNDERGROUND UTILITY AND SUBSTRUCTURE SPOILS AND CONSTRUCTION METHODS.
- THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY NECESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.
2. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER.

3. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENGINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORNE SOLELY BY THE CONTRACTOR.

4. REMOVE ALL EXCESS SOILS TO AN APPROVED DUMP SITE OR DISPOSE OF ON SITE AT A LOCATION TO BE APPROVED BY THE ENGINEER, IN A MANNER THAT WILL NOT CAUSE EROSION.

5. CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 00320 AND 00330 OF THE OREGON STANDARD SPECIFICATIONS, THESE DRAWINGS, AND THE TECHNICAL SPECIFICATIONS.

6. PRIOR TO STARTING WORK ON THE PROJECT, SUBMIT FOR ACCEPTANCE BY THE ENGINEER A HAZARDOUS MATERIALS CONTROLS AND SPILL PREVENTION PLAN. INCLUDE PROVISIONS FOR PREVENTING HAZARDOUS MATERIALS FROM CONTAMINATING SOIL OR ENTERING WATER COURSES, AND ESTABLISH A SPILL PREVENTION AND COUNTERMEASURE PLAN.
- EROSION CONTROL NOTES
1. THE ESCP MEASURES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, UPGRADE THESE MEASURES AS NEEDED TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENT CONTROL REGULATIONS.

2. PHASE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION.

3. IDENTIFY, MARK, AND PROTECT (BY FENCING OFF OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS.

4. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS, RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED.

5. EROSION AND SEDIMENT CONTROL MEASURES INCLUDING PERIMETER SEDIMENT CONTROL MUST BE IN PLACE BEFORE VEGETATION IS DISTURBED AND MUST REMAIN IN PLACE AND BE MAINTAINED, REPAIRED, AND PROMPTLY IMPLEMENTED FOLLOWING PROCEDURES ESTABLISHED FOR THE DURATION OF CONSTRUCTION, INCLUDING PROTECTION FOR ACTIVE STORM DRAIN INLETS AND CATCH BASINS AND APPROPRIATE NON-STORMWATER POLLUTION CONTROLS.

6. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES AND FOR ALL ROADWAYS INCLUDING GRAVEL ROADWAYS.

7. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS.

8. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND-DISTURBING ACTIVITIES.

9. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE.

10. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS, VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, LEFTOVER PAINTS, SOLVENTS, AND GLUES FROM CONSTRUCTION OPERATIONS.

11. FUELING ACTIVITIES MUST BE LOCATED A MINIMUM OF 150 FEET FROM ORDINARY HIGH WATER AND SENSITIVE WATERS, INCLUDING WETLANDS.

12. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES.

13. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL.

14. ONSITE VEHICLE SPEED ON UNPAVED SURFACES SHALL BE LIMITED TO 15 MPH.

15. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE.

16. IF A STORMWATER TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN PLAN APPROVAL BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

17. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR.

18. AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS.

19. CONSTRUCTION ACTIVITIES MUST AVOID OR MINIMIZE EXCAVATION AND CREATION OF BARE GROUND DURING WET WEATHER.

20. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL.

21. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DIVISION OF STATE LANDS REQUIRED TIMEFRAME.

22. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS, DRAINAGE WAYS, OR WETLANDS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS.

23. THE ENTIRE SITE MUST BE TEMPORARILY STABILIZED USING VEGETATION OR A HEAVY MULCH LAYER, TEMPORARY SEEDING, OR OTHER METHOD SHOULD ALL CONSTRUCTION ACTIVITIES CEASE FOR 30 DAYS OR MORE.

24. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE.

25. PROVIDE PERMANENT EROSION CONTROL MEASURES ON ALL EXPOSED AREAS AS THEY ARE COMPLETED. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. HOWEVER, DO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AS EXPOSED AREAS BECOME STABILIZED, UNLESS DOING SO CONFLICTS WITH LOCAL REQUIREMENTS. PROPERLY DISPOSE OF CONSTRUCTION MATERIALS AND WASTE, INCLUDING SEDIMENT RETAINED BY TEMPORARY BMPS.
-
- 5094 SWIFT ST.
SANTA CRUZ, CA 95060
PH: (831) 421-9291 / FAX: (888) 819-6847
WWW.WATWAYS.COM
- DRAFT
- NOT FOR CONSTRUCTION
- PREPARED AT THE REQUEST OF:
COLUMBIA SOIL AND WATER
CONSERVATION DISTRICT
- NOTES (1 OF 2)
- CONYERS CREEK HABITAT
DIVERSIFICATION AND
ENHANCEMENT PROJECT
100% ADMINISTRATIVE
DRAFT SUBMITTAL
- DESIGNED BY: D.M./J.H.
DRAWN BY: C.B.
CHECKED BY: J.H.
DATE: 10/12/2026
JOB NO.: 22-051
- BAR IS ONE INCH ON
ORIGINAL DRAWING.
ADJUST SCALES FOR
REDUCED PLOTS
- 0 1" 2" 3" 4" 5" 6" 7" 8" 9" 10"
- C17
- 17
OF
18

TURBIDITY CURTAIN NOTES

1. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A TURBIDITY CURTAIN OUTSIDE THE WORK LIMITS OF THE LOG STRUCTURE LOCATIONS TO ELIMINATE THE DISCHARGE OF SEDIMENT TO THE CREEK DURING CONSTRUCTION. THE TURBIDITY CURTAIN ALIGNMENT SHALL MAXIMIZE THE WIDTH OF UNDISTURBED CHANNEL AND REMAIN IN PLACE UNTIL THE LOG STRUCTURE CONSTRUCTION IS COMPLETE AND MATERIALS AND EQUIPMENT HAVE BEEN REMOVED FROM THE WORK AREA.
2. LOCALIZED PUMPING MAY BE REQUIRED TO CONTAIN TURBID WATER WITHIN THE WORK LIMITS. PUMPED WATER SHALL BE DISCHARGED IN A MANNER WHICH DOES NOT RESULT IN AN EXCEEDANCE OF ANY WATER QUALITY REQUIREMENTS ESTABLISHED BY REGULATORY AGENCIES HAVING JURISDICTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY IN STRICT ACCORDANCE WITH THE PERMIT REQUIREMENTS, THE DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND OPERATION OF THE DIVERSION AT ALL TIMES.

STREAM/WETLAND CONSTRUCTION BEST MANAGEMENT PRACTICES

1. ALL WORK WITHIN THE WETTED CHANNEL SHALL BE COMPLETED WITHIN THE IN-WATER WORK WINDOW AS LISTED IN THE PERMITS.
2. FISH RELOCATION

2.1. SHALL BE PERFORMED BY THE CONTRACTOR (UNLESS STATED OTHERWISE IN THE CONTRACT DOCUMENTS) PRIOR TO PERFORMING ANY CONSTRUCTION WITHIN THE WETTED CHANNEL. ALL FISH RELOCATION WORK SHALL BE SUPERVISED BY A QUALIFIED FISHERIES BIOLOGIST WITH EXPERIENCE IN WORK AREA ISOLATION, AND A VALID ODFW SCIENTIFIC TAKE PERMIT. PERFORM THE FOLLOWING STEPS IN THE ORDER LISTED FOR FISH RELOCATION:

2.2. CONDUCT FISH RELOCATION ACTIVITIES DURING PERIODS OF THE DAY WITH THE COOLEST AIR AND WATER TEMPERATURES POSSIBLE.

2.3. ISOLATE THE WETTED STREAM CHANNEL AT THE UPSTREAM END OF THE LIMITS OF DISTURBANCE WITH BLOCK NETS. CLOSELY MONITOR ALL BLOCK NETS THROUGHOUT CONSTRUCTION TO ENSURE THEY STAY SECURED TO THE BANKS AND FREE OF ORGANIC ACCUMULATION.

2.4. CONDUCT AN INITIAL SWEEP OF THE WETTED CHANNEL WITH SEIN NETS WITHIN THE WORK ZONE FROM UPSTREAM TO DOWNSTREAM.

2.5. ISOLATE THE DOWNSTREAM END OF THE WETTED CHANNEL WITH BLOCK NETS.

2.6. INSTALL DEWATERING EQUIPMENT AND BEGIN SLOWLY DEWATERING WHILE CONTINUING FISH RELOCATION ACTIVITIES.

2.7. ELECTROFISHING SHALL FOLLOW NMFS (2000) GUIDELINES

2.8. FISH TRANSPORT

2.8.1. MINIMIZE THE TIME FISH ARE IN TRANSPORT CONTAINERS.

2.8.2. KEEP TRANSPORT CONTAINERS IN SHADED AREA.

2.8.3. LIMIT THE NUMBER OF FISH WITHIN CONTAINERS AND ONLY KEEP FISH OF RELATIVELY COMPARABLE SIZE WITHIN A GIVEN CONTAINER.

2.8.4. USE AERATORS OR REPLACE THE WATER IN THE CONTAINERS AT LEAST EVERY 15 MINUTES WITH COLD CLEAR WATER.

2.8.5. RELEASE FISH IN AN AREA UPSTREAM OF THE CONSTRUCTION AREA WITH ADEQUATE COVER AND FLOW REFUGE. DOWNSTREAM IS ACCEPTABLE PROVIDED THE RELEASE SITE IS BELOW THE INFLUENCE OF CONSTRUCTION.

2.8.6. MONITOR AND RECORD FISH PRESENCE, HANDLING, AND INJURY/MORTALITY DURING ALL PHASES OF FISH RELOCATION AND SUBMIT A FISH SALVAGE REPORT AS REQUIRED BY PERMITS WITHIN 60 DAYS.
3. DEWATERING/BYPASS FLOWS

3.1. PUMPS: WHENEVER A PUMP IS USED TO DEWATER THE ISOLATION AREA AND ESA-LISTED FISH MAY BE PRESENT, A FISH SCREEN WILL BE USED THAT MEETS THE MOST CURRENT VERSION OF NMFS'S FISH SCREEN CRITERIA (NMFS 2011A). NMFS APPROVAL IS REQUIRED FOR PUMPING AT A RATE THAT EXCEEDS 3 CFS.

3.2. TREAT ALL DISCHARGE WATER FROM DEWATERING ACTIVITIES WITHIN THE CONSTRUCTION AREA USING BEST MANAGEMENT PRACTICES TO REMOVE DEBRIS, SEDIMENT, PETROLEUM PRODUCTS, AND ANY OTHER POLLUTANTS LIKELY TO BE PRESENT.DEWATER THE SHORTEST LINEAR EXTENT OF WORK AREA PRACTICABLE.

3.3. FLOW BYPASS SHALL BE PERFORMED AS SHOWN ON THE DRAWINGS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.

3.4. RE-WATERING OF THE WORK AREA FOLLOWING CONSTRUCTION SHALL BE PERFORMED SLOWLY TO PREVENT LOSS OF SURFACE FLOW DOWNSTREAM AND ANY SUDDEN INCREASE IN STREAM TURBIDITY.
4. TEMPORARY STREAM CROSSINGS

4.1. MINIMIZE THE NUMBER OF STREAM CROSSINGS TO MAXIMUM EXTENT PRACTICABLE.

4.2. NO STREAM CROSSINGS SHALL BE ALLOWED IN ACTIVE SPAWNING SITES, WHEN HOLDING ADULT LISTED FISH ARE PRESENT, OR WHEN EGGS OR ALEVINS ARE IN THE GRAVEL.

4.3. TEMPORARY CROSSINGS SHALL NOT OCCUR IN AREA THAT MAY INCREASE THE RISK OF CHANNEL RE-ROUTING OR AVULSION, OR IN POTENTIAL SPAWNING HABITAT.

4.4. CONSTRUCTION EQUIPMENT AND VEHICLES SHALL CROSS STREAMS AT RIGHT ANGLES TO THE MAIN CHANNEL.

4.5. CONSTRUCTION EQUIPMENT AND VEHICLES SHALL ONLY BE ALLOWED TO CROSS STREAMS IN THE WET WHERE THE STREAMBED IS BEDROCK, OR WHERE MATS OR OFF-SITE LOGS ARE PLACED IN THE STREAM AND USED AS A CROSSING.

4.6. DECOMMISSION ALL TEMPORARY STREAM CROSSINGS IMMEDIATELY FOLLOWING CONSTRUCTION AND RETURN AREA TO PRECONSTRUCTION CONDITIONS.
5. EMERGENCY PROCEDURES: MAINTAIN CLOSE ATTENTION TO FLOWS AND FORECASTED WEATHER CONDITIONS DURING CONSTRUCTION. SHOULD A RAIN EVENT BE FORECAST OR INCREASED FLOWS BE PREDICTED FROM FIELD OBSERVATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASURES TO PREPARE THE SITE. MEASURES SHALL INCLUDE, AT A MINIMUM; REMOVAL OF ALL MACHINERY AND TOOLS FROM THE CHANNEL, CONSTRUCTION OF TEMPORARY GRAVEL/COBBLE BERMS TO ISOLATE DISTURBED AREAS CONTAINING ERODE ABLE SOILS, PREPARATION OF A SAFE AND STABLE FLOW PATH THROUGH THE CONSTRUCTION SITE, AND ANY OTHER MEASURES NECESSARY TO PROTECT WATER QUALITY, AS APPROVED BY THE ENGINEER.

DESIGNED BY: D.M./J.H.
DRAWN BY: C.B.
CHECKED BY: J.H.
DATE: 10/12/2026
JOB NO.: 22-051

BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS

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1"

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CONYERS CREEK HABITAT DIVERSIFICATION AND ENHANCEMENT PROJECT 100% ADMINISTRATIVE DRAFT SUBMITTAL

NOTES (2 OF 2)

PREPARED AT THE REQUEST OF: COLUMBIA SOIL AND WATER CONSERVATION DISTRICT

DRAFT NOT FOR CONSTRUCTION

WATERWAYS

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