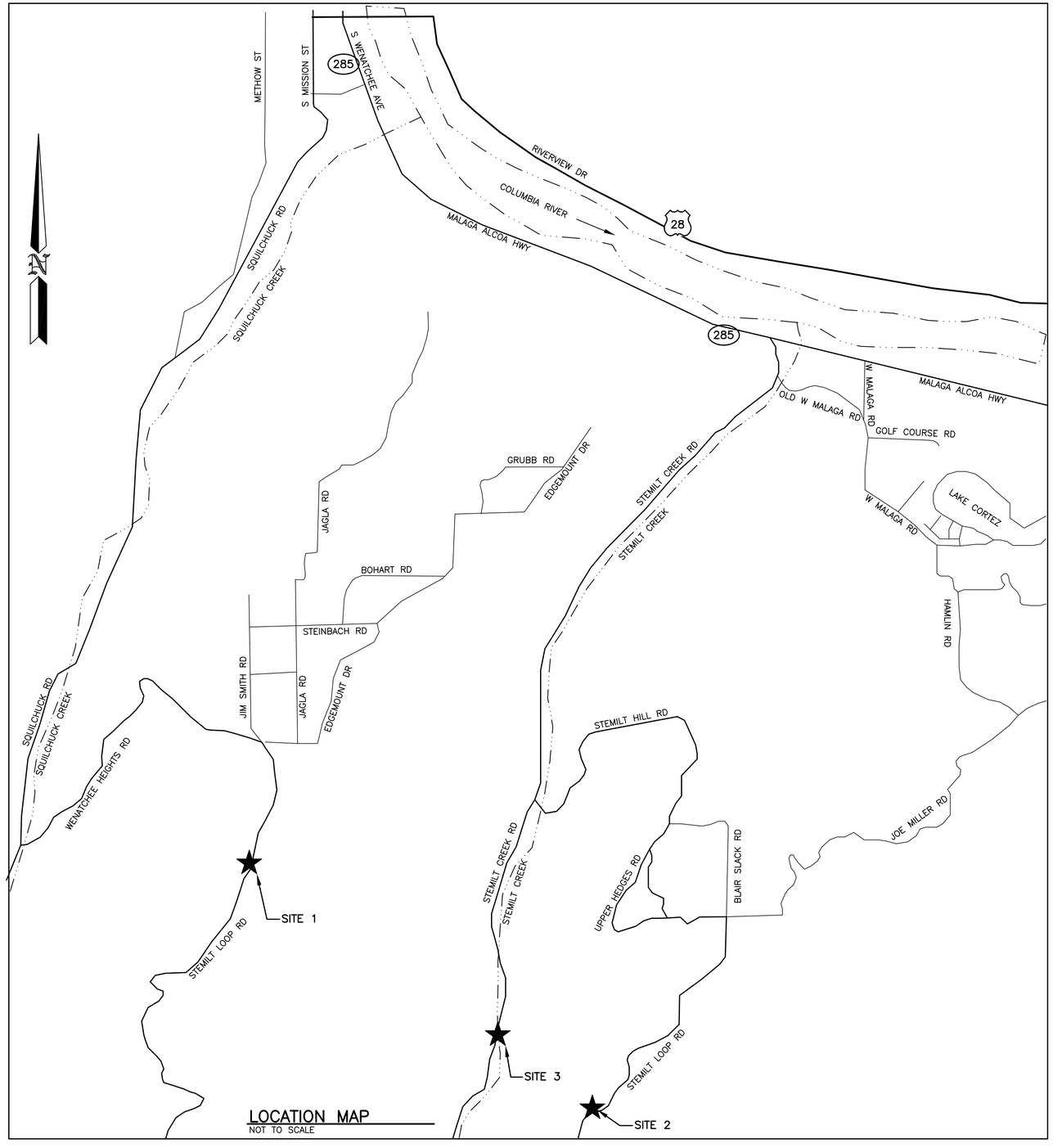
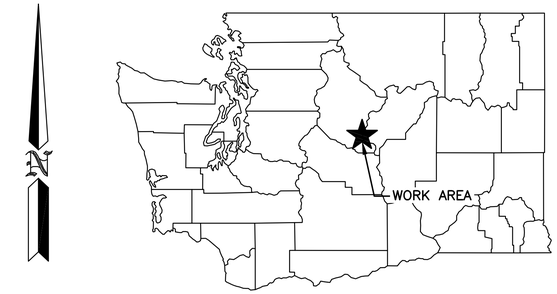
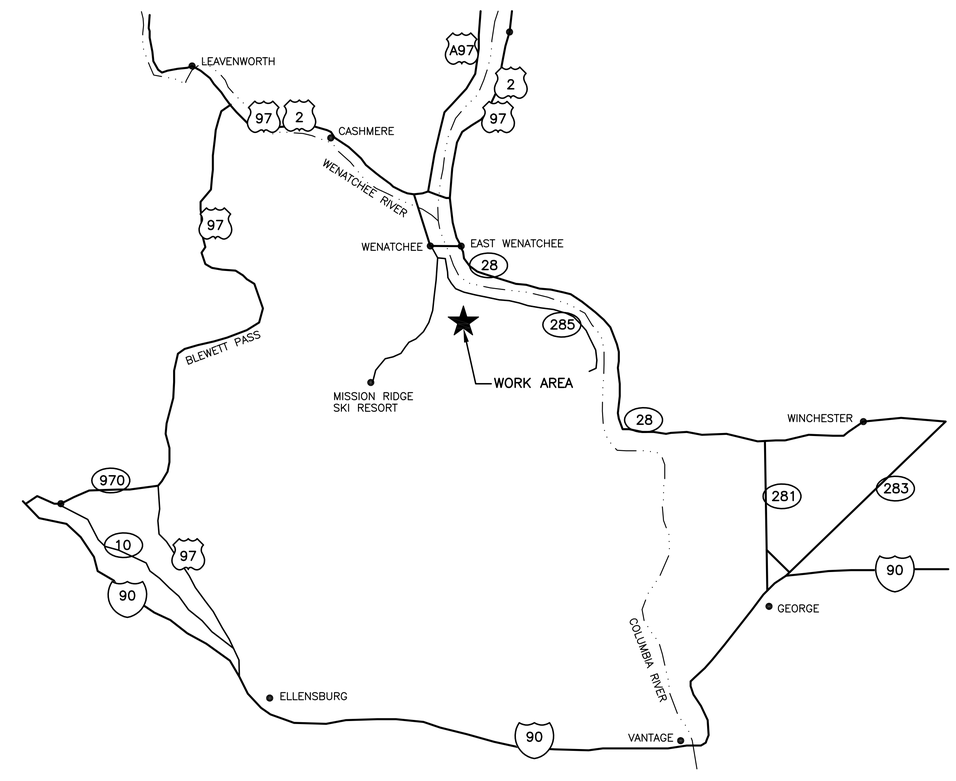


LOCATION MAP
NOT TO SCALE



STATE MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

SYM	DATE	REVISION DESCRIPTION	BY

APPROVED AND RELEASED FOR CONSTRUCTION

CHIEF ENGINEER ..... DATE: .....
PROGRAM ..... DATE: .....

0 ——— 1"
BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS

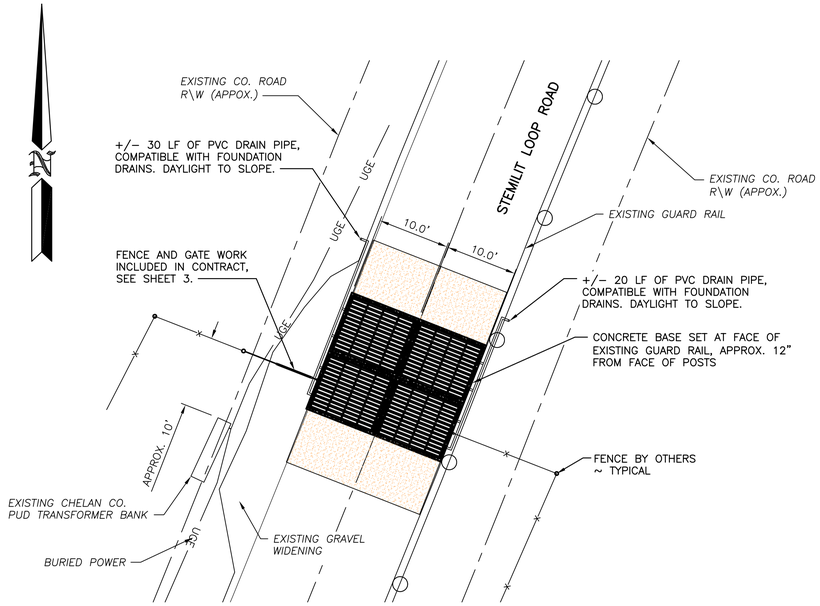
DESIGNED BY J.G.
CHECKED BY
DRAWN BY D.S.
DATE 6/5/2014

COLOCKUM WLA

STEMILT AREA CATTLE GUARDS
VICINITY MAPS

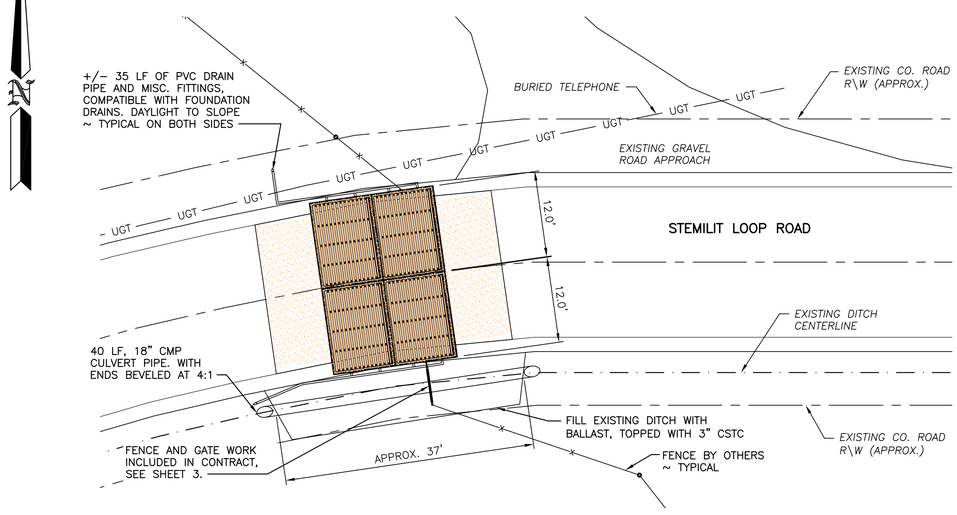
PROJECT NO. CN:R11:14–3

SHEET 1 OF 4



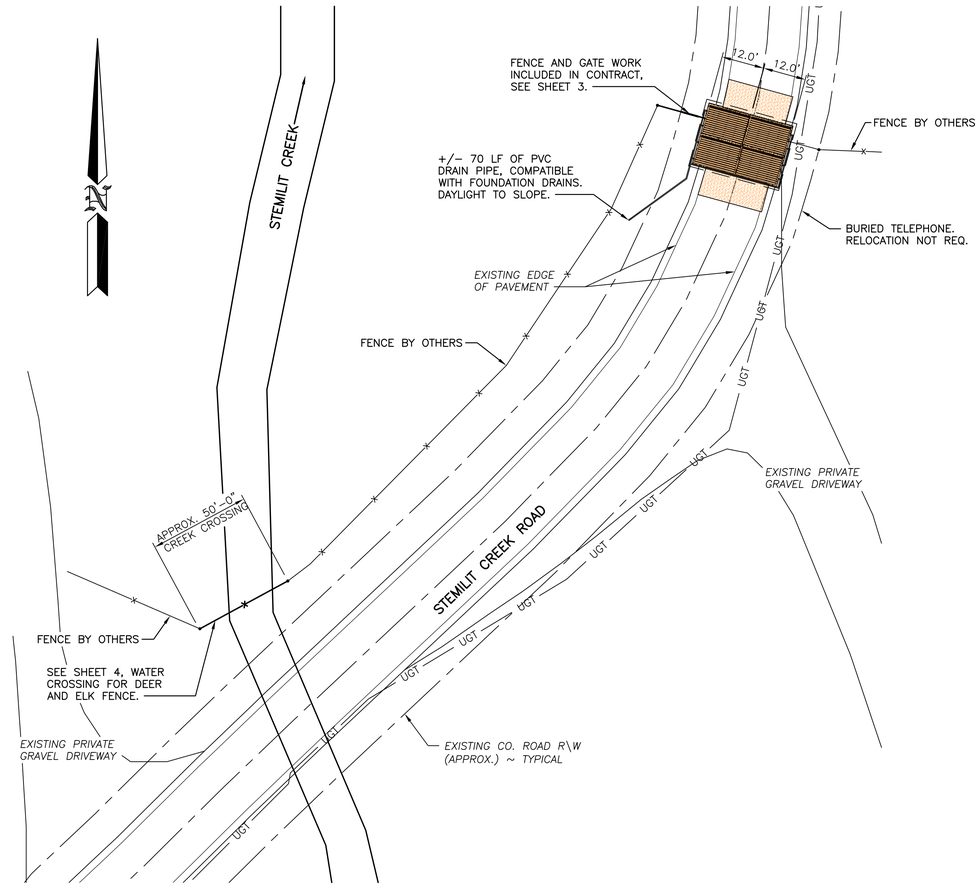
SITE NUMBER 1

SCALE: 1" = 10'
SEC 10, T 21 N, R 20 E, WM
LAT: 47° 19' 57.47"
LONG:–120° 18' 49"



SITE NUMBER 2

SCALE: 1" = 10'
SEC 13, T 21 N, R 20 E, WM
LAT: 47° 19' 05.93"
LONG: –120° 16' 14.98"



SITE NUMBER 3

SCALE: 1" = 20'
SEC 12, T 21 N, R 20 E, WM
LAT: 47° 19' 25.89"
LONG: –120° 16' 54.37"

WASHINGTON STATE
DEPARTMENT OF FISH AND WILDLIFE

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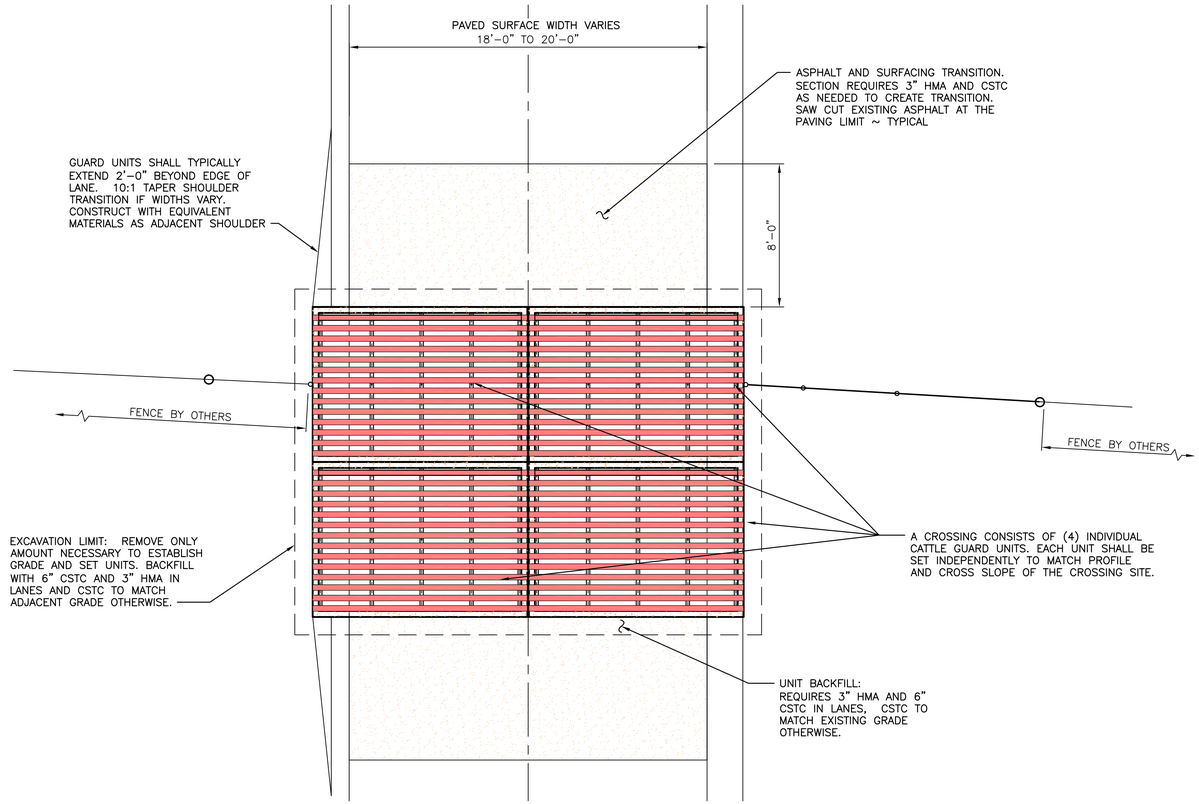
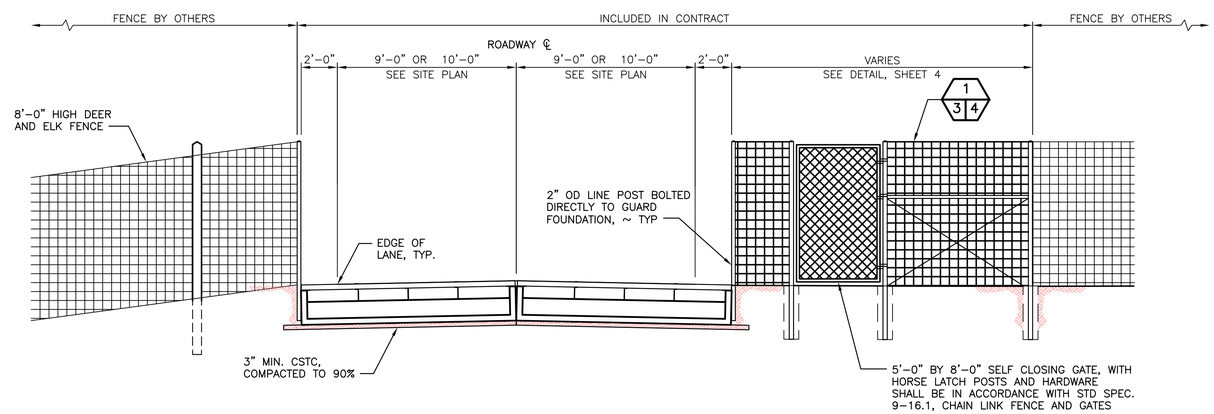
COLOCKUM WLA
STEMILT AREA CATTLE GUARDS
CATTLE GUARD SITE PLANS

PROJECT NO. CN:R11:14–3
SHEET 2 OF 4



PLAN
SCALE: 1/4" = 1'–0"



ELEVATION
SCALE: 1/4" = 1'–0"

CONSTRUCTION NOTES:

1. CATTLE GUARD UNIT DETAILS SHALL BE DETERMINED BY CONTRACTORS SUPPLIER. DETAILS SHOWN NOTE THE REQUIRED ELEMENTS OF THE UNITS TO BE FURNISHED.
2. ALL MATERIALS AND WORKMANSHIP WITHIN THE COUNTY ROAD PRISM SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION.
3. UNITS SHALL BE FIT TOGETHER SNUGLY. JOINTS BETWEEN UNITS SHALL BE SEALED WITH SIKAFLEX 1A OR APPROVED EQUAL.
4. UNITS SHALL MATCH ADJACENT UNIT WITHIN 1/2" VERTICALLY.
5. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHMENT AND CONTROL OF PROPOSED ELEVATION AND GRADE. ELEVATION AND GRADE SHALL BE VERIFIED BY ENGINEER PRIOR TO FINAL SET OF UNITS.
6. ASPHALT TRANSITIONAL PATCH SHALL PROVIDE A SMOOTH TRANSITION FROM EXISTING ROAD SURFACE TO GUARD SURFACE.
7. SURFACING AND BACKFILL SHALL COMPACTED IN ACCORDANCE WITH SECTION 2–03.3(14)C, METHOD B (95% OF MAXIMUM DENSITY).
8. 3" SCHEDULE. 40 PVC DRAIN PIPE SHALL BE CONNECTED TO CONCRETE BASE UNITS TO PROVIDE DRAINAGE. SEE SITE PLAN FOR LOCATION AND LENGTH.
9. ALL DISTURBED AREAS BEYOND EDGE OF GRAVEL SHOULDER SHALL BE TREATED WITH THE REQUIRED SEED, FERTILIZER AND MULCH.
10. CONTRACTOR REQUIRED TO CALL FOR UTILITY LOCATES. ANY RELOCATIONS WILL BE COORDINATED BY WDFW.
11. POSTS ATTACHED TO GUARD BASE UNIT AND POSTS, GATES AND ASSOCIATED HARDWARE SHALL MEET WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION 9–16.1 (CHAIN LINK FENCE AND GATES) AND WSDOT STANDARD PLANS L–30.10–01 (TYPE 3). ALL POSTS SHALL INCLUDE CAPS.
12. ATTACH POSTS TO BASE UNIT WITH GALVANIZED. ANCHOR BOLTS, OR APPROVED EQUAL.

ABBREVIATIONS:

AASHTO	–	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
CSTC	–	CRUSHED SURFACING TOP COURSE
GA	–	GAUGE
GALV	–	GALVANIZED
HMA	–	HOT MIX ASPHALT
NOM	–	NOMINAL
OC	–	ON CENTER
OD	–	OUTSIDE DIAMETER
PSI	–	POUNDS PER SQUARE INCH
STD SPECS	–	WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION
TYP	–	TYPICAL
WDFW	–	WASHINGTON STATE DEPARTMENT OF FISH & WILDLIFE
WSDOT	–	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

WASHINGTON STATE
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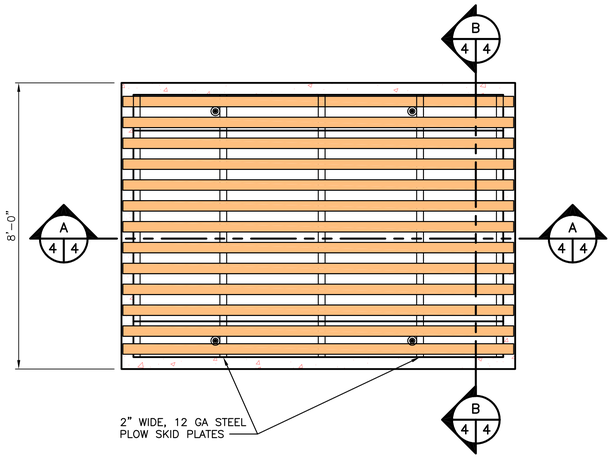
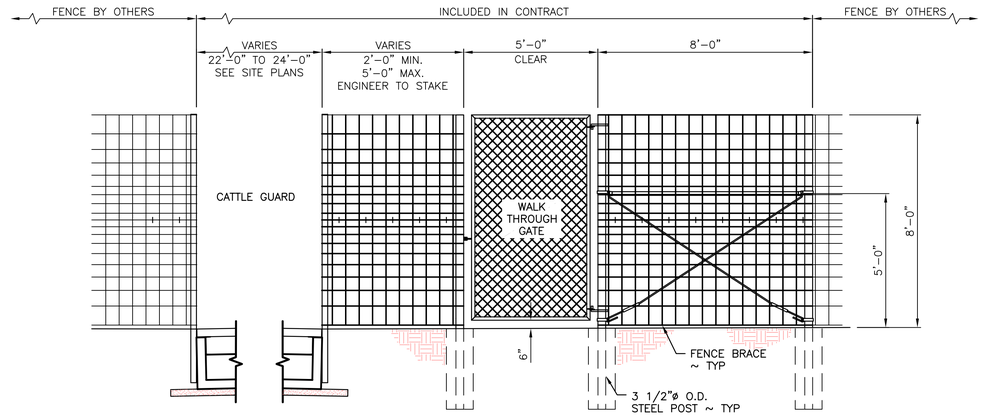
STEMILT AREA CATTLE GUARDS
H20 – LOADING CATTLE GUARDS AND FENCE DETAILS

PROJECT NO. CN:R11:14–3

SHEET 3 OF 4



UNIT DETAIL
SCALE: 1/2" = 1'-0"



WALK THROUGH GATE BRACE DETAIL
SCALE: 3/8" = 1'-0"
1 / 3 4

CATTLE GUARD CONSTRUCTION NOTES:

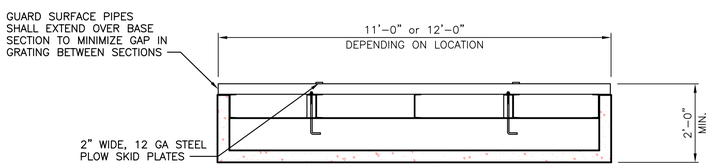
1. CATTLE GUARD UNIT DETAILS SHALL BE DETERMINED BY CONTRACTORS SUPPLIER. DETAILS SHOWN NOTE THE REQUIRED ELEMENTS OF THE UNITS TO BE FURNISHED.
2. UNITS MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER TO MEET AASHTO H-20 LOADS
3. CONCRETE SHALL BE A MINIMUM OF 4000 PSI, AIR ENTRAINED MIX.
4. STEEL GUARD PORTION SHALL BE FABRICATED AS A UNIT. THE GUARD SHALL BE DESIGNED TO ALLOW SIMPLE REMOVAL FROM BASE UNIT TO ALLOW FOR DEBRIS REMOVAL FROM BASE.
5. ALL STEEL TO BE GALVANIZED AFTER FABRICATION

WATER CROSSING FOR DEER AND ELK FENCE CONSTRUCTION NOTES:

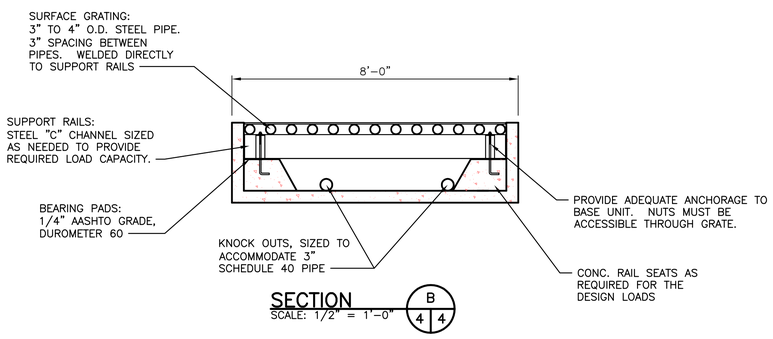
1. CREEK CROSSING FENCE SECTION SHALL BE INSTALLED WITH HAND TOOLS.
2. CLEARING SHALL BE LIMITED TO PRUNING AND CLOSE CUTTING TREES AND SHRUBS. PROPOSED REMOVAL OF 3" DIAMETER. OR LARGER WOODY MATERIAL MUST BE AGREED UPON BY THE ENGINEER PRIOR TO REMOVAL.
3. LEAVE DEBRIS ON SITE AND DISTRIBUTE ADJACENT TO FENCE LINE.
4. SEE SPECIFICATION FOR MATERIAL REQUIREMENTS.

WALK THROUGH GATE BRACE CONSTRUCTION NOTES:

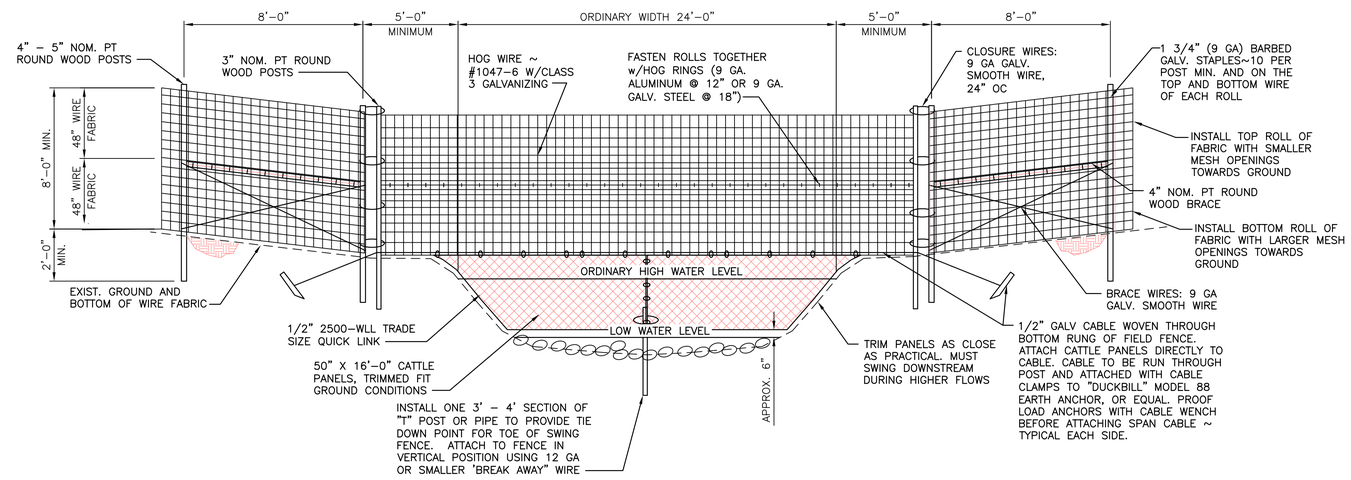
1. TENSION WIRES ON HINGE SIDE ONLY.
2. SEE SHEET 3 FOR POSTS ATTACHED TO GUARD BASE UNIT, POSTS, GATES, AND ASSOCIATED HARDWARE.
3. FOR WOVEN WIRE MESH INFORMATION SEE WATER CROSSING FOR DEER AND ELK FENCE BELOW.



SECTION
SCALE: 1/2" = 1'-0"
A / 4 4



SECTION
SCALE: 1/2" = 1'-0"
B / 4 4



WATER CROSSING FOR DEER AND ELK FENCE
SCALE: 1/4" = 1'-0"

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STEMILT AREA CATTLE GUARDS
H20 LOADING CATTLE GUARD
PLAN AND ELEVATION

PROJECT NO. CN:R11:14-3

SHEET 4 OF 4