



# WASHINGTON DEPARTMENT OF FISH AND WILDLIFE

## CHOPAKA ACCESS SITE DEVELOPMENT ON:A378:13-1

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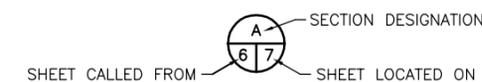
### ABBREVIATIONS

ALUM	-	ALUMINUM
L	-	ANGLE
APPROX.	-	APPROXIMATELY
BM	-	BENCH MARK
CF	-	CUBIC FEET
CL	-	CENTERLINE
CLR.	-	CLEARANCE
CONC	-	CONCRETE
CSBC	-	CRUSHED SURFACE BASE COURSE
CSTC	-	CRUSHED SURFACE TOP COURSE
Ø	-	DIAMETER
ELEV	-	ELEVATION
GALV	-	GALVANIZED
GA.	-	GAUGE
ID	-	INSIDE DIAMETER
IE	-	INVERT ELEVATION
LF	-	LINEAR FEET
LG	-	LONG
MAX	-	MAXIMUM
MFG.	-	MANUFACTURER'S
MIN	-	MINIMUM
MISC.	-	MISCELLANEOUS
OC	-	ON CENTER
OD	-	OUTSIDE DIAMETER
OHW	-	ORDINARY HIGH WATER
PL	-	PLATE
PNT	-	POINT
PT	-	PRESSURE TREATED
REQ'D	-	REQUIRED
SEC.	-	SECTION
SF	-	SQUARE FEET
SHT.	-	SHEET
SPEC'S.	-	PROJECT SPECIFICATIONS
STA	-	STATION
TYP	-	TYPICAL
W.S.	-	WATER SURFACE

### SHEET SYMBOLS



#### DETAIL



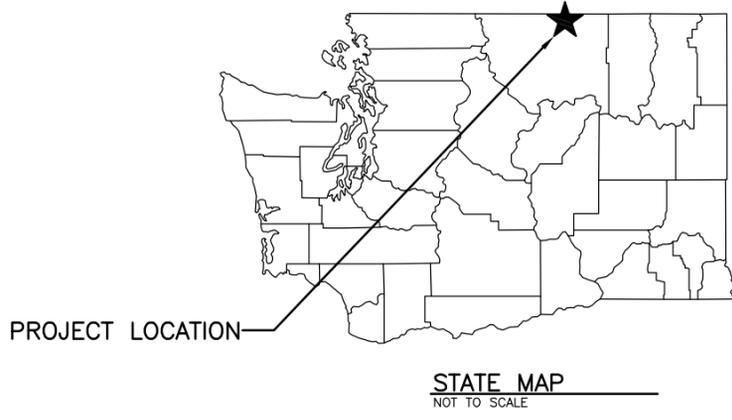
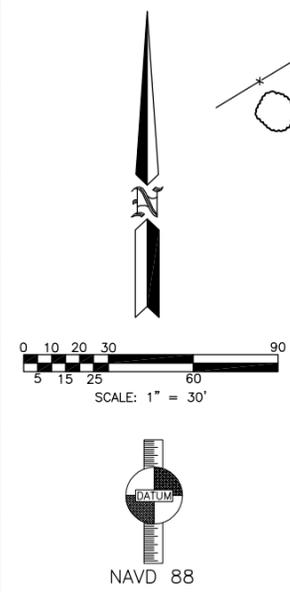
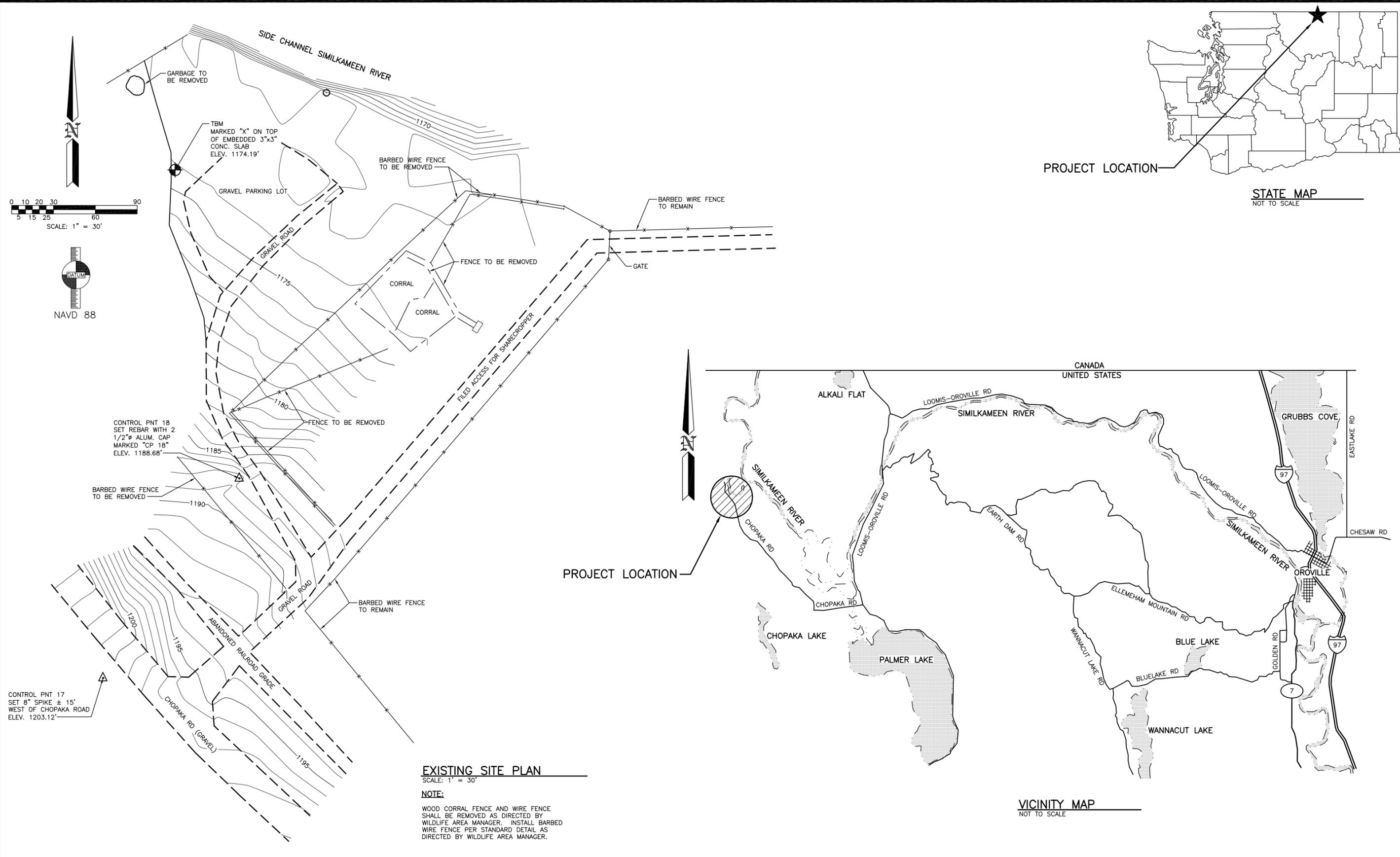
#### SECTION



#### NOTE REFERENCE

REFERENCE DESIGNATION TO NOTE  
APPEARING ON SAME SHEET OR A  
PART OR MATERIAL IN A SCHEDULE

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SHEET	OF
1	8

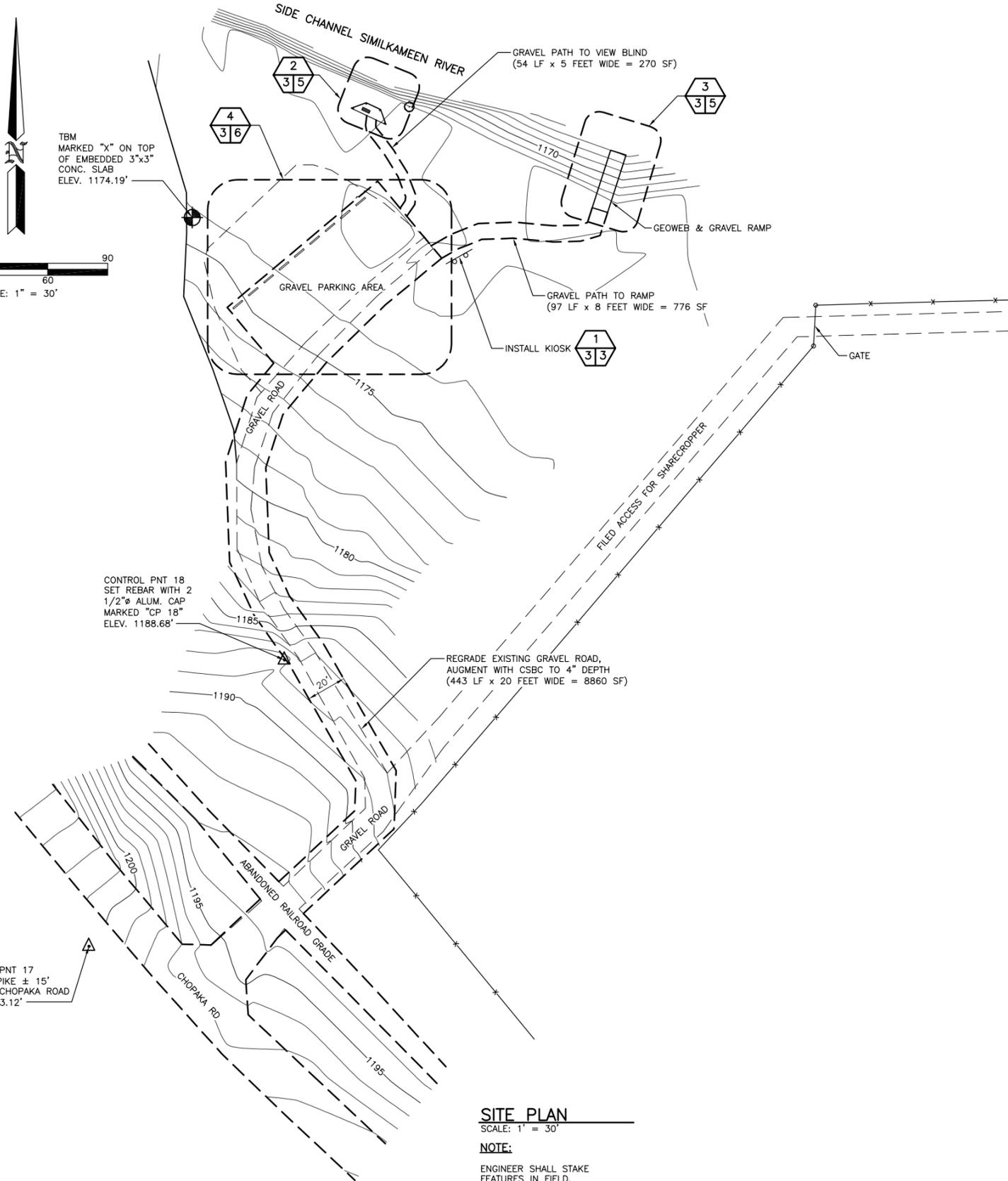
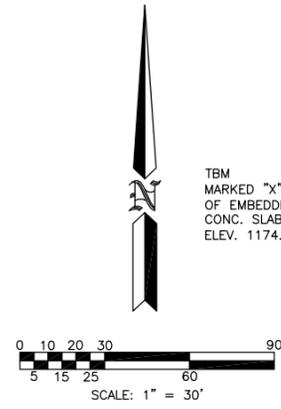


**EXISTING SITE PLAN**  
SCALE: 1" = 30'

**NOTE:**  
WOOD CORRAL FENCE AND WIRE FENCE SHALL BE REMOVED AS DIRECTED BY WILDLIFE AREA MANAGER. INSTALL BARBED WIRE FENCE PER STANDARD DETAIL AS DIRECTED BY WILDLIFE AREA MANAGER.

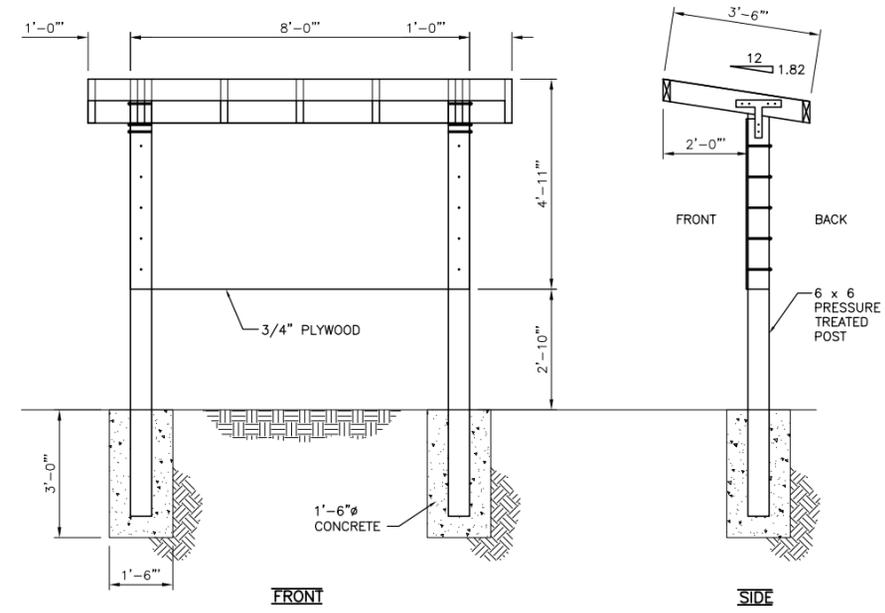
**VICINITY MAP**  
NOT TO SCALE

<b>WASHINGTON STATE</b>  <b>DEPARTMENT OF FISH AND WILDLIFE</b>		<table border="1"> <tr> <td>SYM</td> <td>DATE</td> <td>REVISION DESCRIPTION</td> <td>BY</td> </tr> <tr> <td colspan="4" style="text-align: center;">APPROVED AND RELEASED FOR CONSTRUCTION</td> </tr> <tr> <td>CHIEF ENGINEER</td> <td>DATE</td> <td>DESIGNED BY</td> <td>J. HANSEN</td> </tr> <tr> <td>PROGRAM</td> <td>DATE</td> <td>CHECKED BY</td> <td>A. JOHNSON</td> </tr> <tr> <td></td> <td></td> <td>DATE</td> <td>12/17/2013</td> </tr> </table>		SYM	DATE	REVISION DESCRIPTION	BY	APPROVED AND RELEASED FOR CONSTRUCTION				CHIEF ENGINEER	DATE	DESIGNED BY	J. HANSEN	PROGRAM	DATE	CHECKED BY	A. JOHNSON			DATE	12/17/2013	<b>CHOPAKA ACCESS</b> <b>SITE DEVELOPMENT</b> <b>EXISTING SITE PLAN</b> <b>&amp; VICINITY MAP</b>		PROJECT NO. ON:A378:13-1	
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				SHEET <b>2</b>	OF <b>8</b>																						



**SITE PLAN**  
SCALE: 1" = 30'

**NOTE:**  
ENGINEER SHALL STAKE FEATURES IN FIELD.



**INFORMATION KIOSK #BBK-2**  
NOT TO SCALE

- NOTE:**
1. POST TO BE PLUMB AND LEVEL ALL DIRECTIONS
  2. ASSEMBLY OF POSTS, PLYWOOD, ROOF AND INSTALLATION BY CONTRACTOR.
  3. KIOSK PACKAGE BBK-2 TO BE PROVIDED BY OTHERS

CUT & FILL QUANTITIES				
MATERIAL	SURFACE AREA	VOLUME CUT	VOLUME FILL	NET TOTAL
EXISTING GRAVEL	11,312 SF			
ROAD REGRADE	8860 SF	0 CY	55 CY	
PARKING RESURFACE	4900 SF	0 CY	30 CY	
PATHS	1046 SF	-13 CY	13 CY	
GEOWEB & GRAVEL RAMP	240 SF	-11 CY	3 CY	
<b>TOTAL</b>		<b>-24 CY</b>	<b>101 CY</b>	<b>77 CY</b>

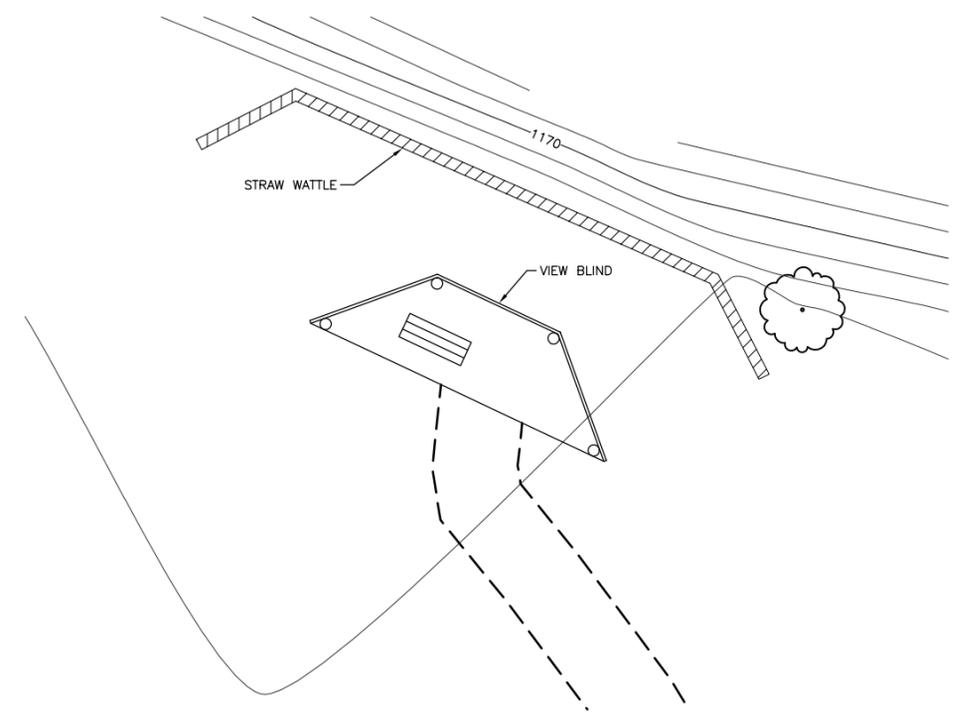
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PROGRAM	DATE:	DRAWN BY A. JOHNSON	DATE 12/17/2013

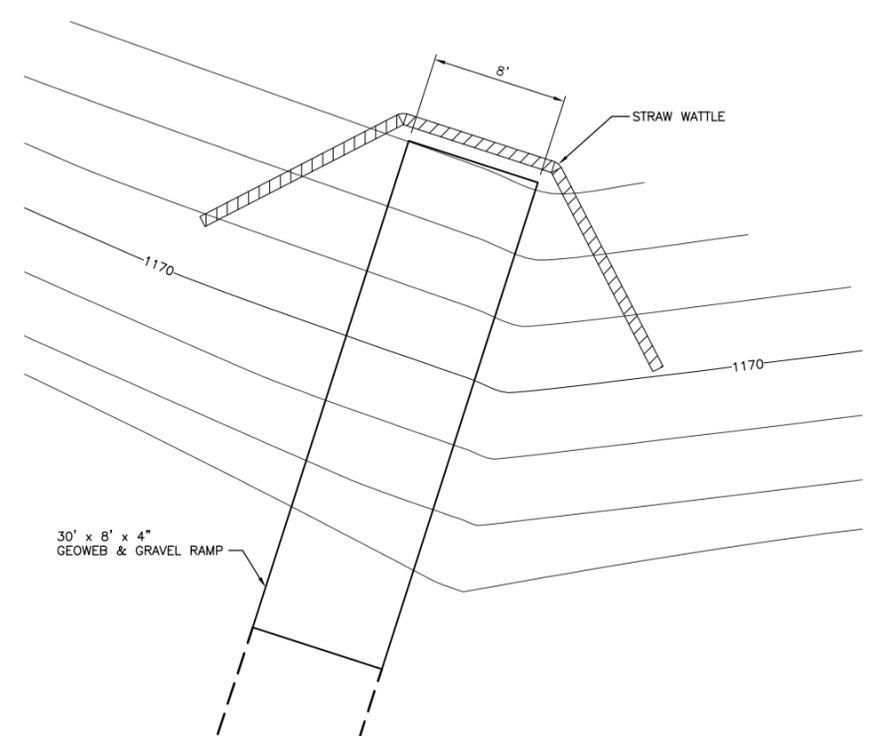
**CHOPAKA ACCESS**  
**SITE DEVELOPMENT**  
**SITE PLAN**

PROJECT NO.  
ON:A378:13-1

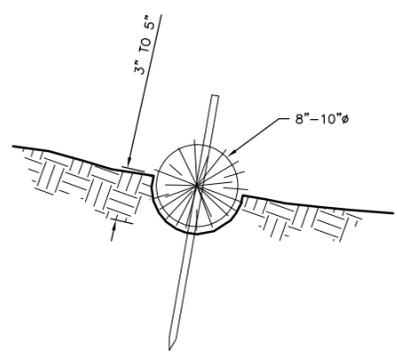
SHEET **3** OF **8**



**VIEW BLIND EROSION CONTROL**  
SCALE: 1" = 5'



**GEOWEB & GRAVEL RAMP EROSION CONTROL**  
SCALE: 1" = 5'



**1" X 1" STAKE**

**STRAW WATTLE DETAIL**  
NOT TO SCALE

**CONSTRUCTION SPECIFICATIONS:**

1. PREPARE THE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED.
2. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
3. DIG SMALL TRENCHES ACROSS THE SLOPE ON CONTOUR, TO PLACE ROLLS IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE ROLL. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE ROLL 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE.
4. IT IS CRITICAL THAT ROLLS ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
5. START BUILDING TRENCHES AND INSTALL ROLLS FROM THE BOTTOM OF THE SLOPE AND WORK UP.
6. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF 3-12 FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES. 1:1=10' 3:1=30'
7. 2:1=20' 4:1=40'
8. LAY THE ROLL ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE.
9. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WILLOW OR WOODEN STAKES.
10. DRIVE THE STAKE THROUGH PREPARED HOLE INTO SOIL. LEAVE ONLY 1 OR 2 INCHES OF STAKE EXPOSED ABOVE ROLL.
11. IF USING WILLOW STAKES REFER TO LIVE STAKING BMP.
12. INSTALL STAKES AT LEAST EVERY 4 FEET APART THROUGH THE WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIIVE OR VERY STEEP SLOPES.
13. INSPECT THE STRAW ROLLS AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE ROLLS ARE IN CONTACT WITH THE SOIL.
14. REPAIR ANY RILLS OR GULLYS PROMPTLY.
15. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.

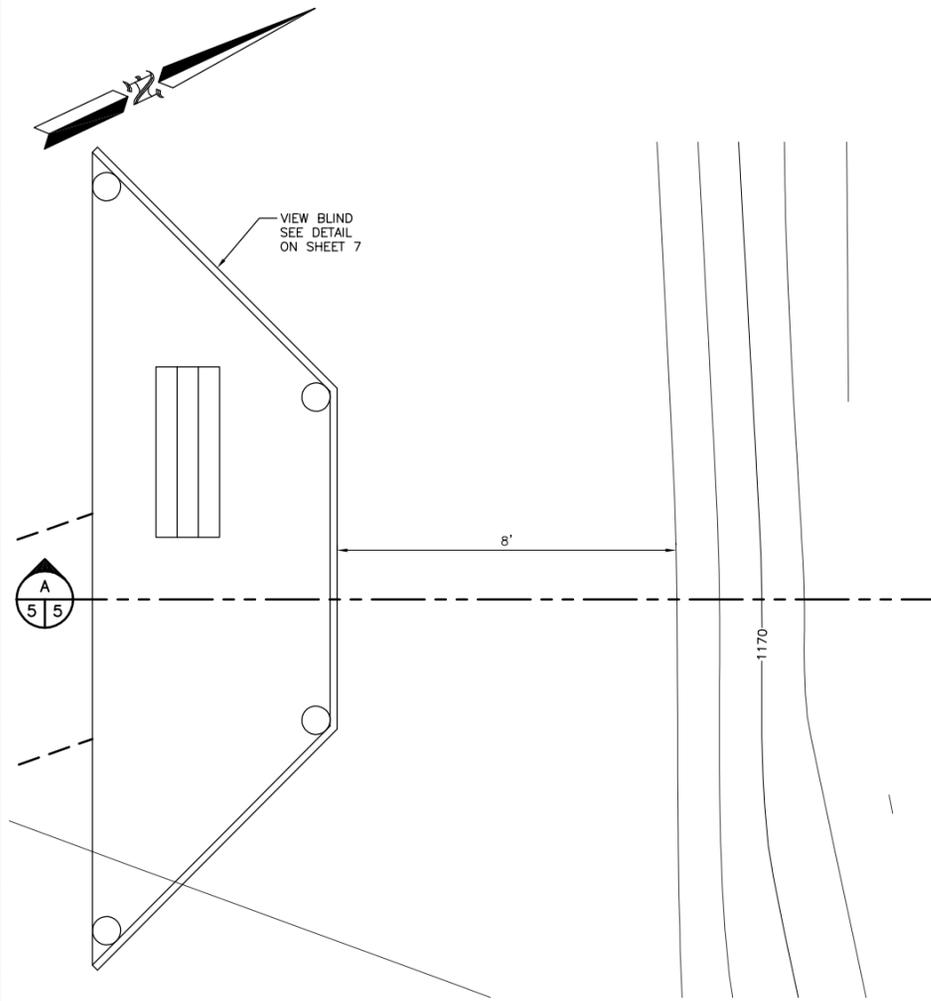
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0	1"		
BAR MEASURES ONE INCH ON ORIGINAL DRAWINGS			
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		DRAWN BY	A. JOHNSON
		DATE	12/16/2013

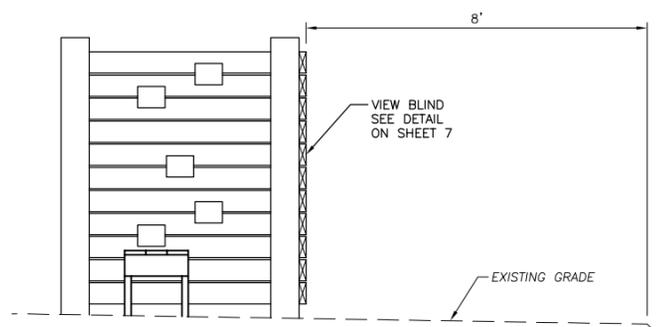
**CHOPAKA ACCESS**  
**SITE DEVELOPMENT**  
**EROSION CONTROL**

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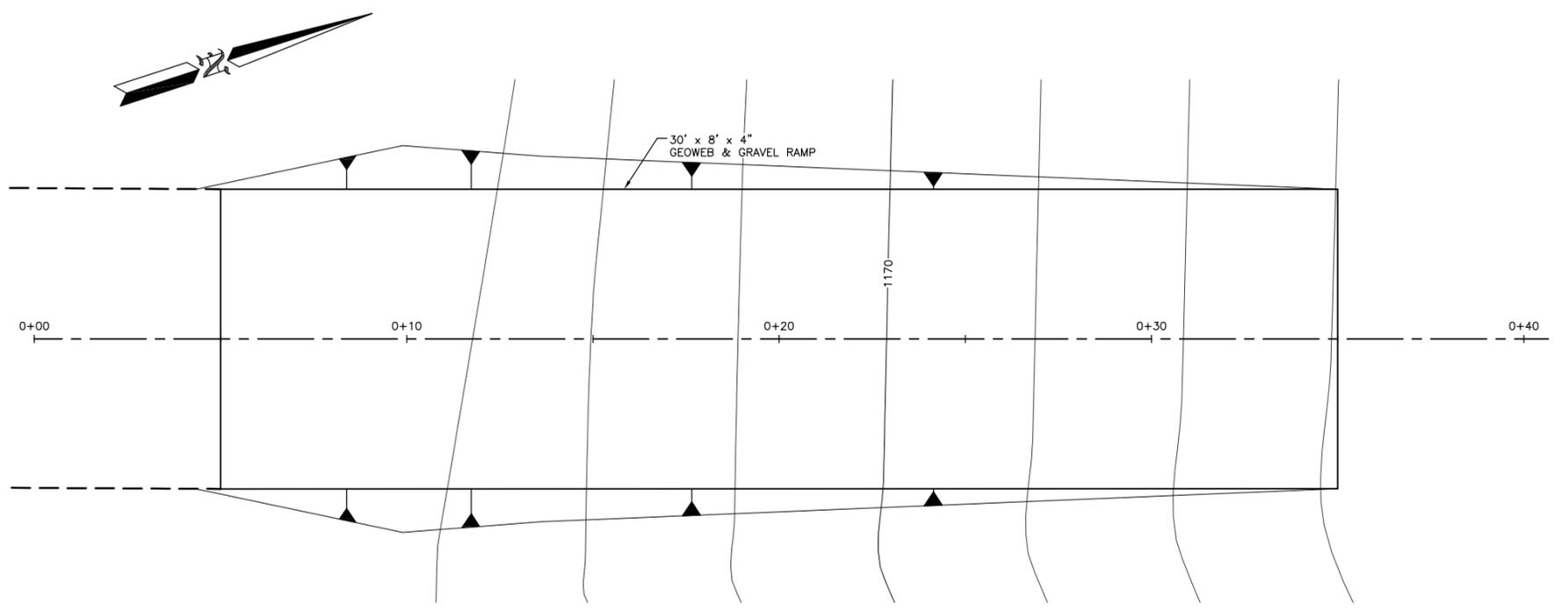


**VIEW BLIND PLAN**  
SCALE: 1" = 2'

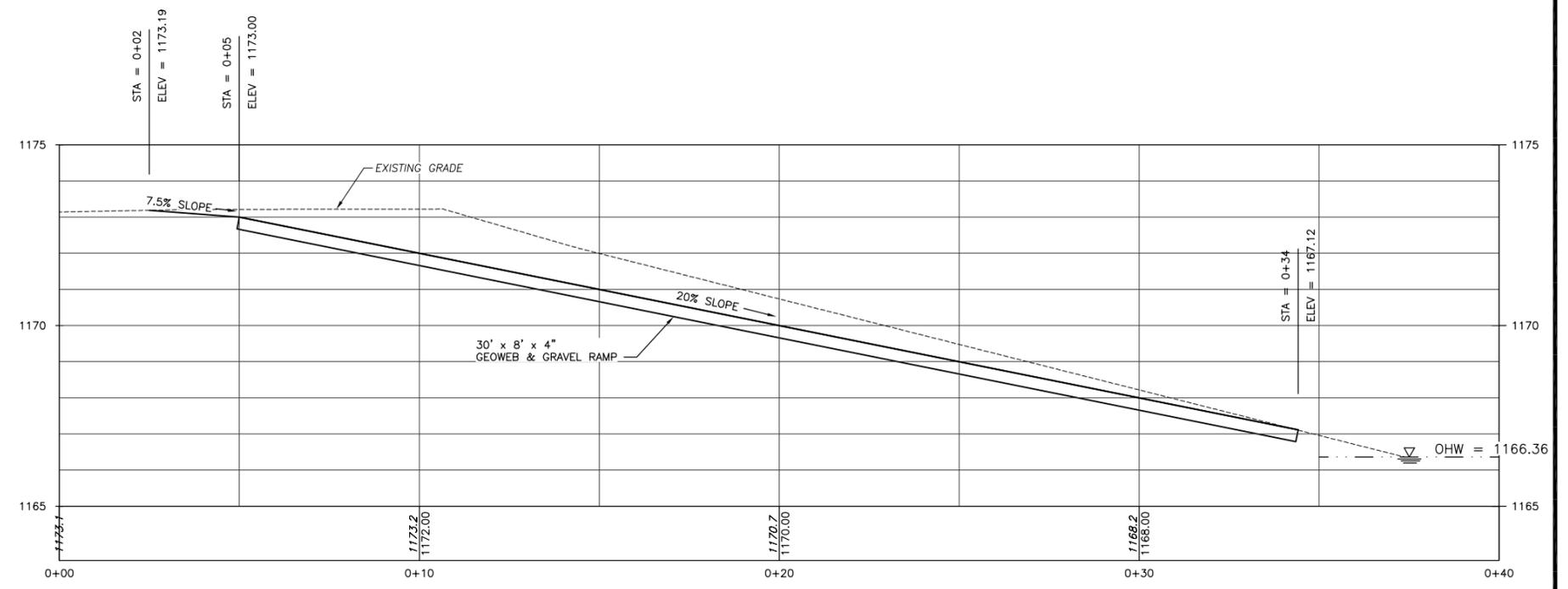


**SECTION**  
SCALE: 1" = 2'

OHW = 1168.13



**GEOWEB & GRAVEL RAMP PLAN**  
SCALE: 1" = 2'



**GEOWEB & GRAVEL RAMP PROFILE**  
SCALE: 1" = 2'

**RAMP CUT/FILL:**  
292 CF/11 CY OF CUT  
80 CF/3 CY OF FILL

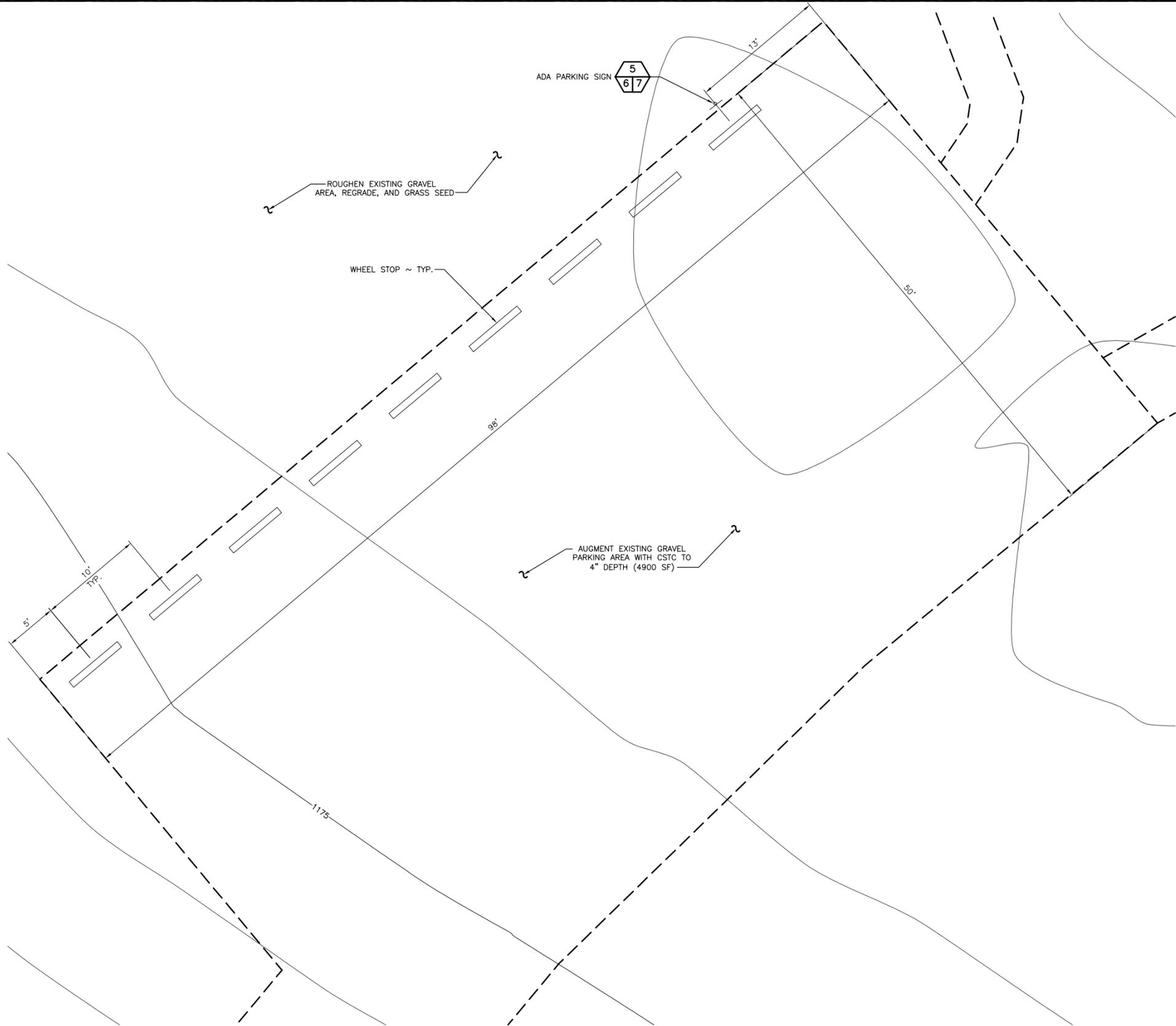
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**CHOPAKA ACCESS**  
**SITE DEVELOPMENT**  
**VIEW BLIND & GEOWEB & GRAVEL RAMP**  
**PLAN & PROFILE**

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**PARKING AREA PLAN**  
SCALE: 1" = 5'



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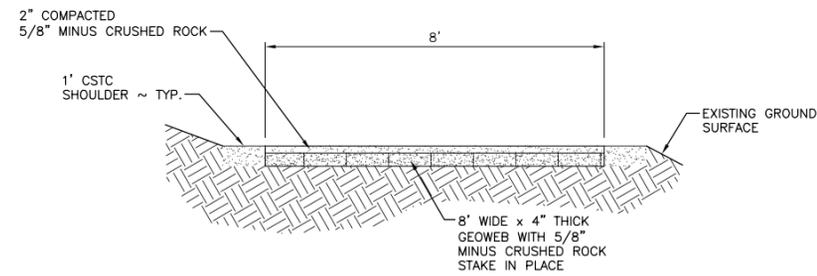
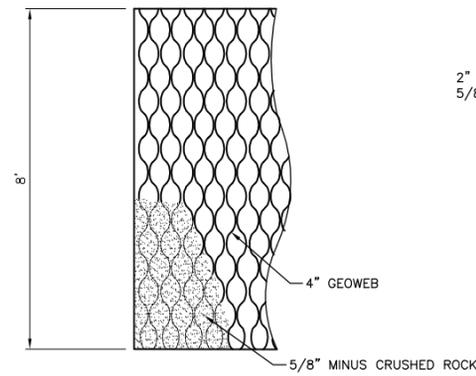
0 ——— 1"  
BAR MEASURES  
ONE INCH ON  
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DESIGNED BY J. HANSEN  
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DRAWN BY A. JOHNSON  
DATE 12/16/2013

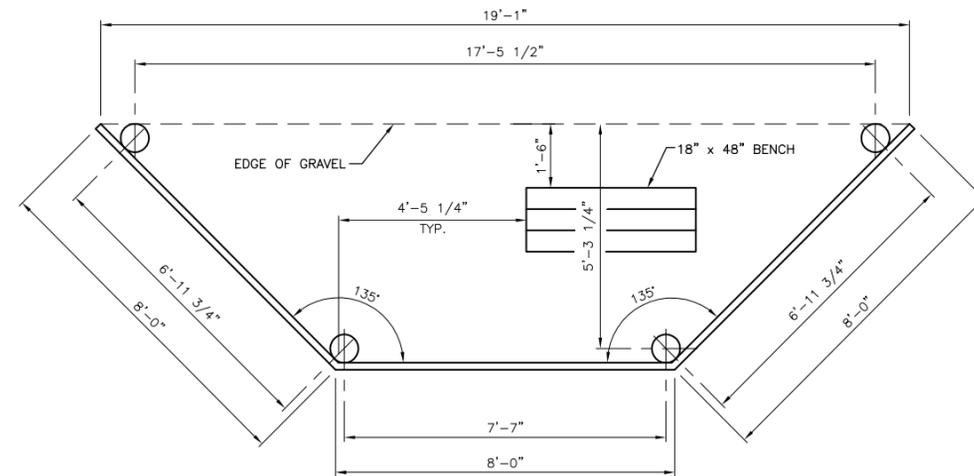
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**SITE DEVELOPMENT**  
**PARKING AREA**  
**PLAN**

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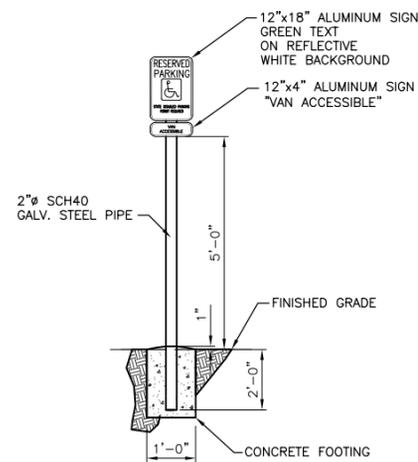
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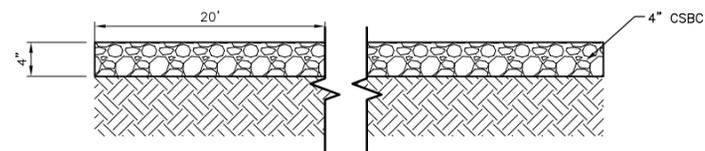
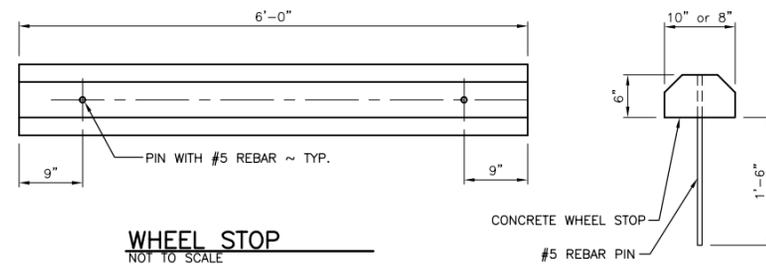
**GEOWEB & GRAVEL RAMP**  
NOT TO SCALE



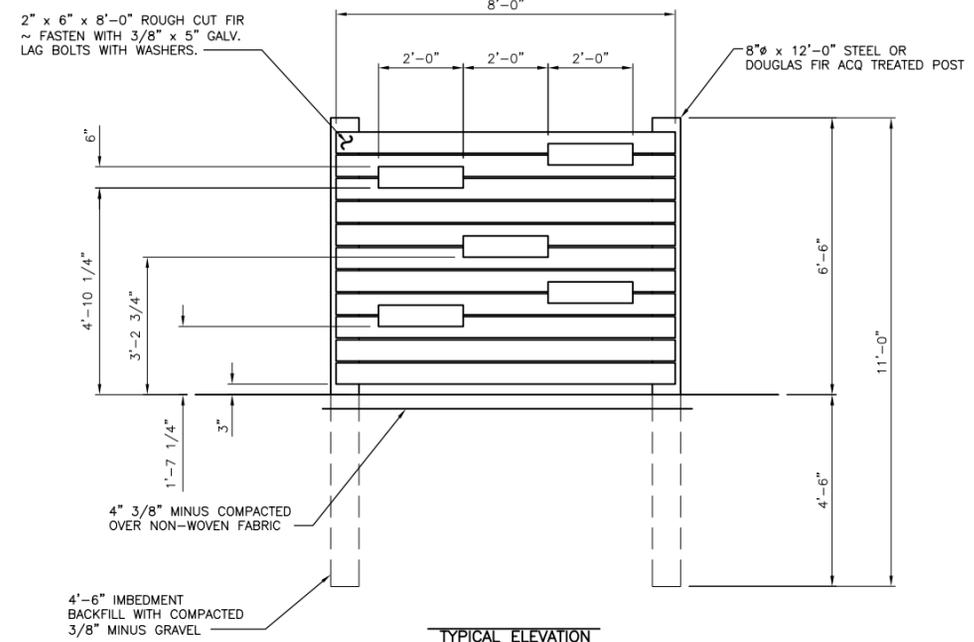
**PLAN**



**ACCESSIBLE PARKING SIGN**  
NOT TO SCALE



**GRAVEL ROAD SECTION**  
NOT TO SCALE



**TYPICAL ELEVATION**

**VIEW BLIND**  
SCALE: 1/2" = 1'-0"

**WASHINGTON STATE**  
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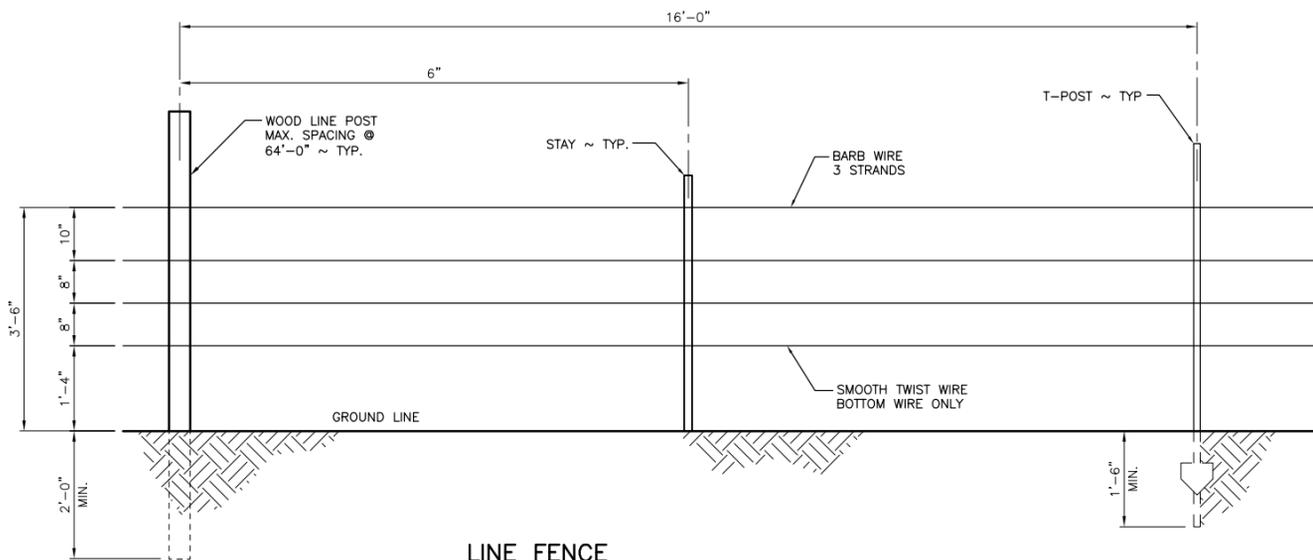
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0 1"  
BAR MEASURES  
ONE INCH ON  
ORIGINAL DRAWINGS

**CHOPAKA ACCESS**  
**SITE DEVELOPMENT**  
**DETAILS**

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SHEET 7 OF 8

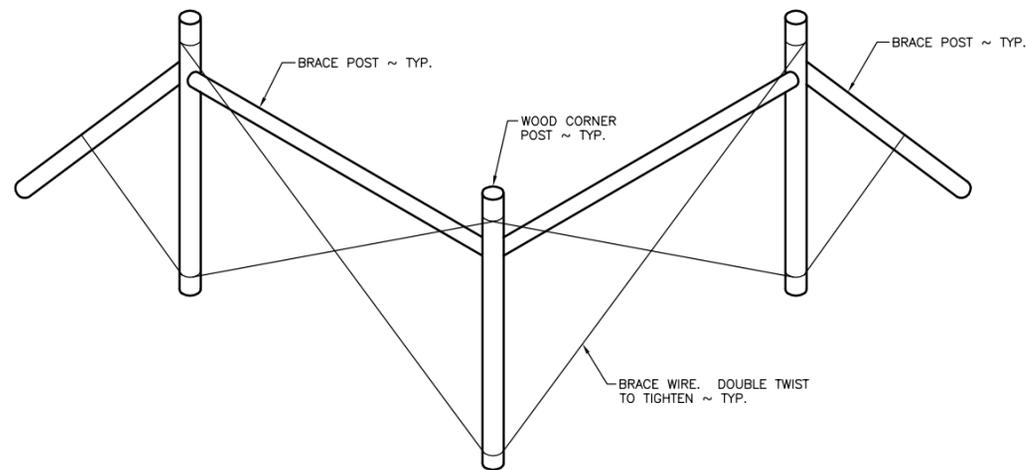


**LINE FENCE**

SCALE: 3/4" = 1'-0"

**NOTES:**

1. ALL POST SHALL NOT EXCEED 16'-0" SPACING.
2. RATIO OF WOOD POSTS TO STEEL POSTS SHALL BE 1 WOOD POST TO 3 STEEL POSTS. MORE WOOD POSTS MAY BE SUBSTITUTED AS REQUIRED.
3. WOOD LINE POST SHALL BE AT LEAST 7'-0" LONG x 3" TO 4" IN DIAMETER (SEE SPECIFICATIONS), POSTS SHALL BE BURIED A MINIMUM DEPTH OF 24". POSTS SHALL BE DUG IN AND TAMPED, NOT DRIVEN. POSTS SHALL BE PRESSURE TREATED AS DESCRIBED IN SPECIFICATIONS.
4. STEEL POSTS SHALL BE HEAVY DUTY WEIGHT, 1.33#, GREEN WITH WHITE TOP, MINIMUM OF 6'-0" LENGTH. ALL POSTS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 18". IF DEPTH CANNOT BE REACHED DUE TO GROUND CONDITION US ROCK JACKS OR METHOD APPROVED BY WDFW ENGINEERING.
5. ALL POSTS MAY BE SUBSTITUTED WITH ROCK JACKS WHERE POSTS CANNOT BE USED. ROCK JACKS SHALL BE CONSTRUCTED FROM PRESSURE TREATED 2x6 MATERIALS AND PT. WOOD POSTS.
6. STAYS SHALL BE EITHER 9 1/2 GA. 42" WIRE TWIST STAYS OR 48" 2x2 PT. WOOD STAYS. STAYS SHALL BE INSTALLED BETWEEN EVERY POST IN LINE. WOOD STAYS ARE PREFERRED.
7. SMOOTH TWIST WIRE SHALL BE 12 1/2 GA., BARBLESS, SMOOTH TWISTED WIRE, SEE SPECIFICATIONS.
8. BARB WIRE SHALL BE 12 1/2 GA., 2 POINT BARBED, WITH BARBS SPACED AT 4", SEE SPECIFICATIONS.
9. STAPLES TO ATTACH WIRE TO WOOD POSTS SHALL BE BARBED GALV. 9 GA., 1 3/4" LONG, SEE SPECIFICATIONS.

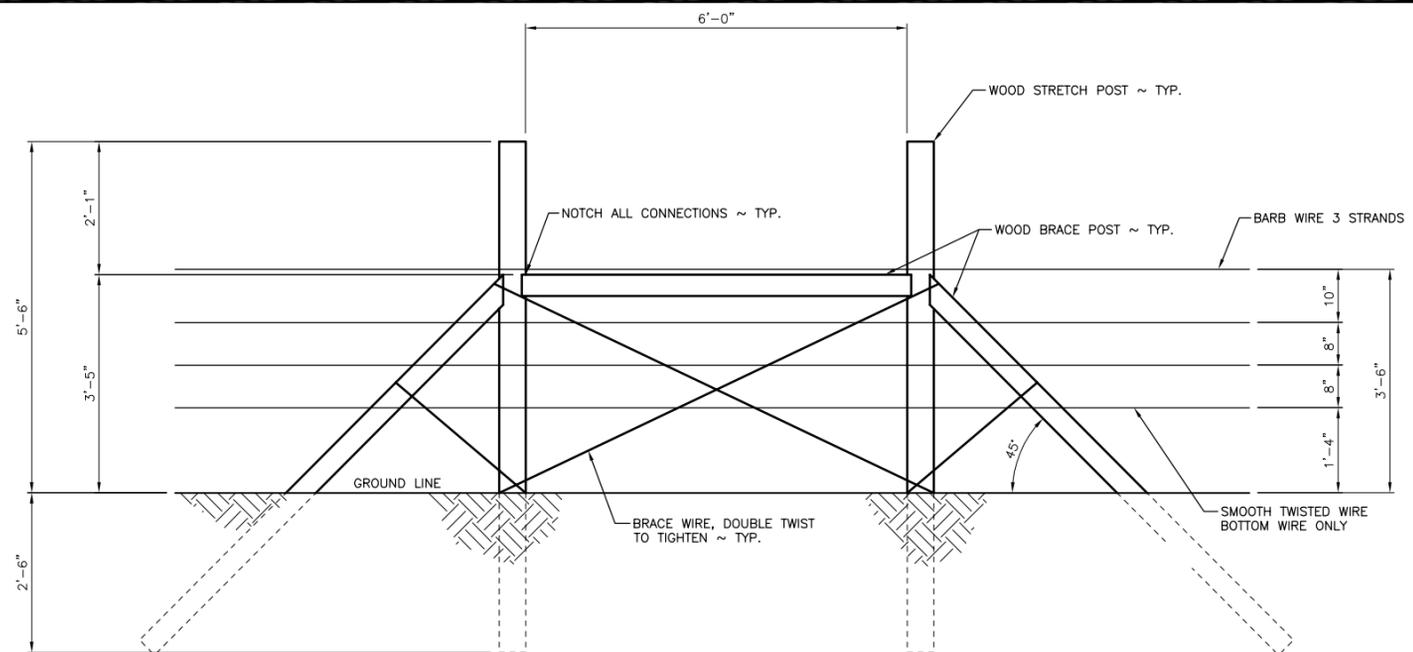


**CORNER BRACE**

SCALE: 3/8" = 1'-0"

**NOTES:**

1. SEE TWO WAY STRETCH POINT DRAWING FOR CONSTRUCTION DETAILS (SIMILAR).
2. LONGITUDINAL WIRES NOT SHOWN, SPACING SHALL BE THE SAME AS THE LINE FENCE.

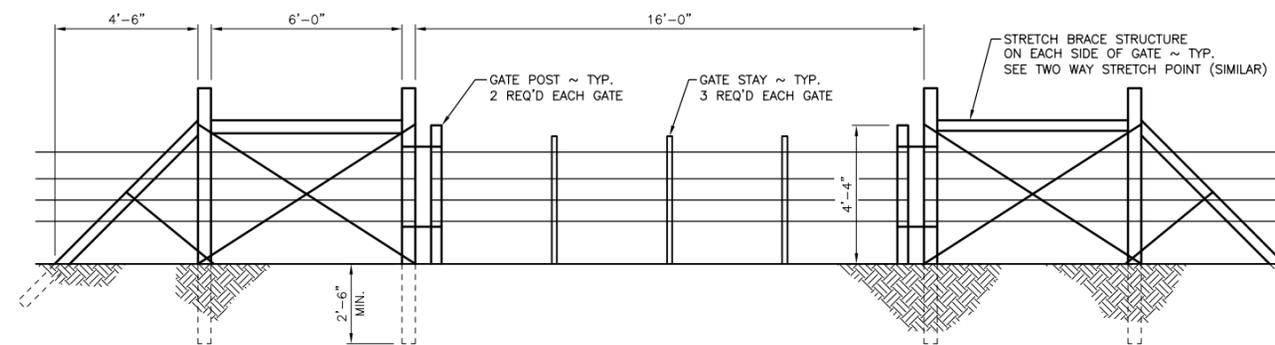


**TWO WAY STRETCH POINT**

SCALE: 3/4" = 1'-0"

**NOTES:**

1. CORNER AND STRETCH BRACE POSTS SHALL BE AT LEAST 8'-0" LONG x 4" TO 5" IN DIAMETER, POSTS SHALL BE BURIED A MINIMUM DEPTH OF 30". POSTS SHALL BE DUG IN AND TAMPED, NOT DRIVEN. POST SHALL BE PRESSURE TREATED AS DESCRIBED IN SPECIFICATIONS.
2. POSTS MAY BE SUBSTITUTED WITH ROCK JACKS WHERE POSTS CANNOT BE USED. ROCK JACKS SHALL BE CONSTRUCTED FROM PRESSURE TREATED 2x6 MATERIALS AND PT. WOOD POSTS.
3. BRACE WIRE SHALL BE SMOOTH 9 GA. GALV. WIRE, MEETING THE REQUIREMENTS OF ASTM DESIGNATION A 116.
4. SMOOTH TWIST WIRE SHALL BE 12 1/2 GA., BARBLESS, SMOOTH TWISTED WIRE, CLASS 3 GALV.
5. BARB WIRE SHALL BE 12 1/2 GA., 2 POINT BARBED, WITH BARBS SPACED AT 4", CLASS 3 GALV.
6. STAPLES TO ATTACH WIRE TO WOOD POSTS SHALL BE BARBED GALV. 9 GA., 1 3/4" LONG, MEETING REQUIREMENTS OF ASTM DESIGNATION A 116, GALV. CLASS 1.
7. STRETCH BRACE POINTS SHALL BE A MAXIMUM DISTANCE OF 1320' 1/4 MILE).



**DROP GATE**

SCALE: 3/8" = 1'-0"

**NOTE:**

GATE SHALL BE 16'-0" IN LENGTH AND SHALL HAVE THREE VERTICAL STAYS AT 1/4 POINTS ALONG GATE. THE DROP POSTS LOCATED AT EACH END SHALL BE 3" - 4" WOOD POSTS CUT TO A LENGTH OF 4'-4". CONSTRUCTED OF BRACE WIRE AND LOOPED AROUND END BRACE POSTS TO FACILITATE CLOSURE OF THE GATE. SPACING OF THE LONGITUDINAL WIRES SHALL BE THE SAME AS THE LINE FENCE.

0	1"		
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