REVISIONS **∕1**\8−15−17 NM DESIGN NOTES: 2 5-10-18 NM DESIGN NOTES.

I DESIGN IS BASED ON PROJECT PLANS BY CITY AND BOROUGH OF JUNEAU, EAGLECREST PTARMIGAN LIFT OFF-LOAD RAMP, CONTRACT NO. BEI7-256, DATED APRIL 28, 2017. IT IS ASSUMED THAT BACKFILL WITHIN THE REINFORCED SOIL MASS, METHODS OF CONSTRUCTION AND QUALITY OF MATERIALS CONFORM TO THE REQUIREMENTS OF THE PROJECT PLANS AND HILFIKER RETAINING WALLS. 2. ASSUMED SOIL CHARACTERISTICS (TO BE VERIFIED BY PROJECT ENGINEER): WALL BACKFILL:  $\Omega$   $\omega$ UNIT WEIGHT: 120 PCF ATER: 32° 0 PSF INTERNAL FRICTION ANGLE: COHESION: RETAINED BACKFILL: EAGLE'S NEST UNIT WEIGHT:
INTERNAL FRICTION ANGLE: DAY LODGE Daylight embankment Sta 10+11.18 into hillside COHESION: FOUNDATION SOILS: 0 PSF MTE FAA walkway NOILUNELSNOU 120 PCF UNIT WEIGHT: Ξz Northeast MSE wall 321° INTERNAL FRICTION ANGLE: - 1.5:1 Embankment slope COHESION: Sta 10+53  $\pm$ Sta 10+01.18 -3. ASSUMED DESIGN LOADS (TO BE VERIFIED BY PROJECT ENGINEER): SEISMIC: MAXIMUM GROUND ACCELERATION COEFFICIENT, A: 0.230 g ſΞ 33.0' LT Begin 1.5:1 fill slope Sta 11+03 ± Top corner wall © 🗡 15.0' LT MTE ground LIVE LOADS: SURCHARGE LOAD=240 PSF 4. WORST CASE FACTORED BEARING PRESSURE (TO BE APPROVED BY PROJECT ENGINEER): Sta 10+15.18  $\mathcal{O}_{\mathcal{I}}$ 4,440 PSF 5,106 PSF 3,107 PSF STATIC 22.0 IT Coping corner, top of ramp **—** ' SEISTIC
SERVICE
SERVICE
5, 106 PSF
SERVICE
5, 107 PSF
5. IF ACTUAL CHARACTERISTICS, GRADES OR DIMENSIONS OF SOILS DIFFER FROM THOSE
LISTED ABOVE OR SHOWN ON THE PLANS, HILFIKER RETAINING WALLS AND PACIFIC
AFFILIATES SHALL BE NOTIFIED TO VERIFY WALL DESIGN IS ADEQUATE FOR ACTUAL SOILS North MSE wall -Ramp Embankment slope - Sta 11+05 ± MTE ground 24% TBM CCONDITIONS.

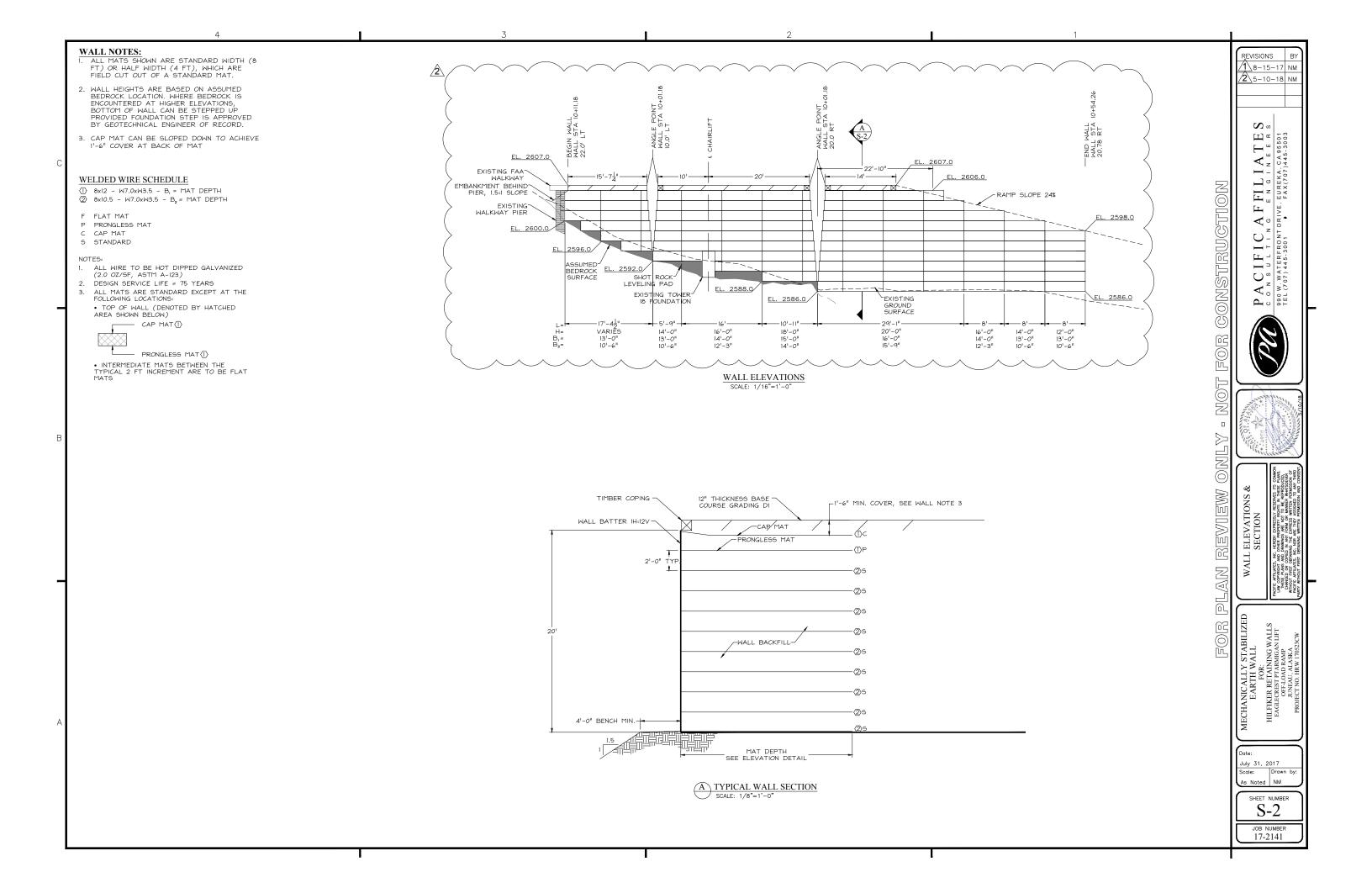
6. THE DESIGN REQUIRES A NON-SATURATED BACKFILL AND ASSUMES THE WATER TABLE DOES NOT AFFECT THE BEARING CAPACITY OF THE SOIL. SURFACE AND SUB-SURFACE DRAINAGE CONTROL MAY BE REQUIRED TO PREVENT SATURATION OF THE BACKFILL OR RELIEVE HYDROSTATIC PRESSURES. DRAINAGE CONTROL SHALL BE AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE PROJECT ENGINEER.

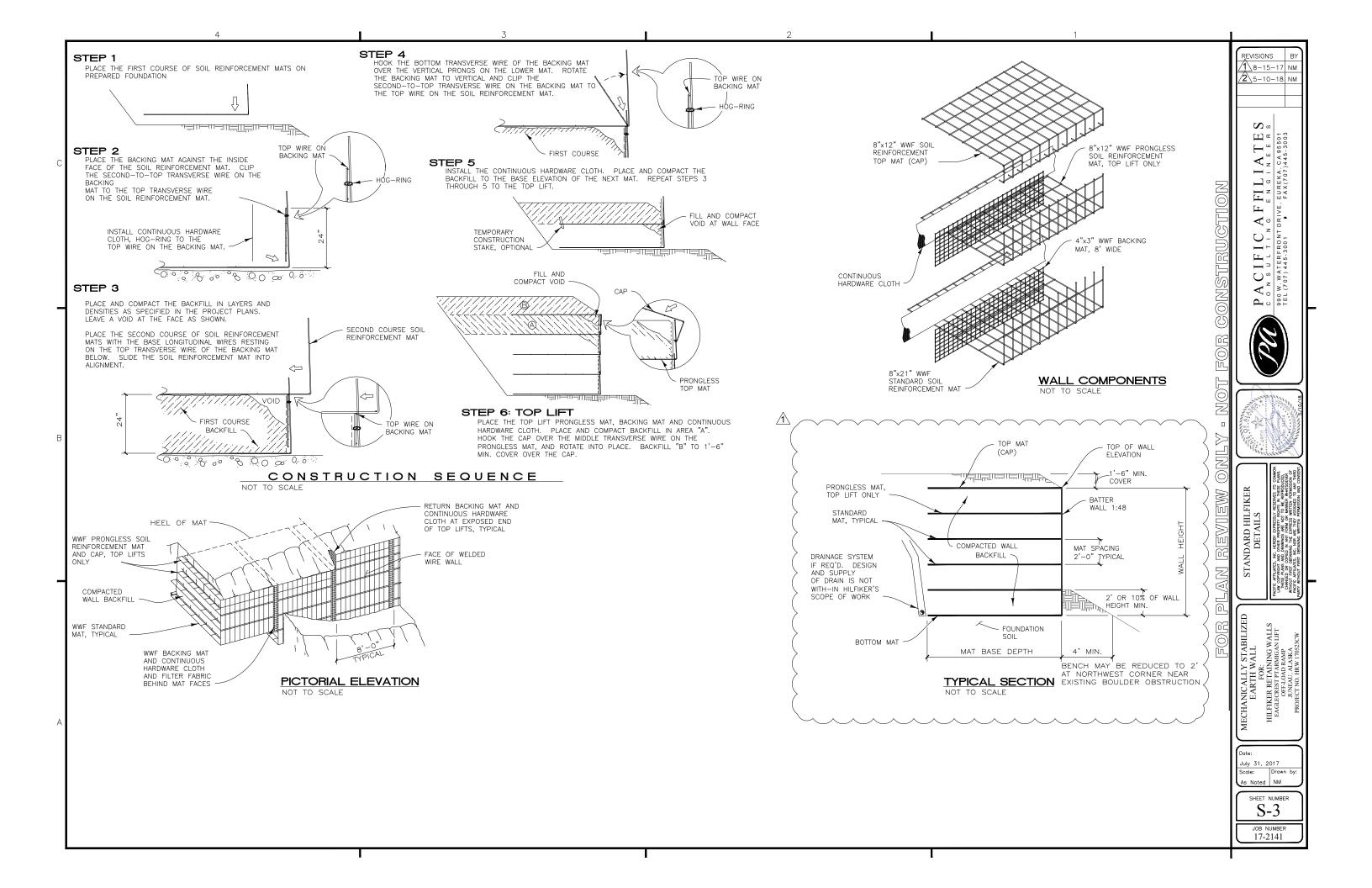
7. IF THE WALL BACKFILL CONTAINS MORE THAN 50% BY WEIGHT SANDS AND FINES (PASSING THE NO. 4 SIEVE) GRAVEL OR OTHER METHODS AS APPROVED BY THE HIFIKER COMPANY SHALL BE USED TO CONTAIN THE BACKFILL AT THE FACE OF THE WALL.

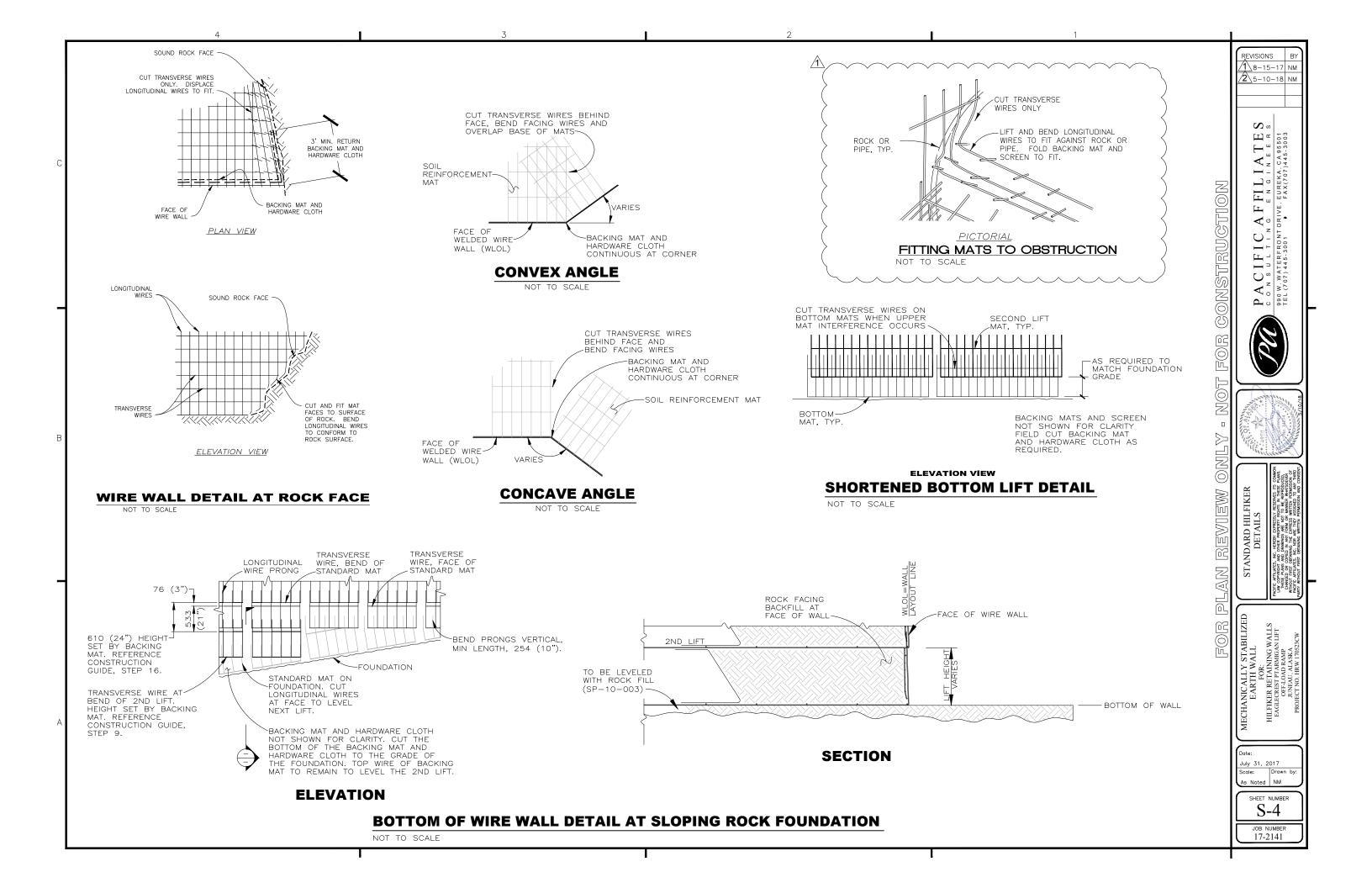
8. DESIGN PROCEDURE: MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES. FIHMA REPORT NO. FHWA-NHI-OO-043 2012 AASHTO LEFD BRIDGE DESIGN CONDITIONS < 0 | P / C 0 MSE WALL MATS Basecourse D1 - Sta 11+10 ± 20.0' RT MTE ground SLOPES, FHWA REPORT NO. FHWA-NHI-00-043. 2012 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. 9. ALL INFORMATION HEREON IS DERIVED FROM THE PROJECT PLANS, AND IS SUBJECT TO Timber coping -ALL INFORTIATION HEREON IS DERIVED FROIT THE PROJECT FLANS, AND IS SUBJECT TO GEOMETRIC AND GEOTECHNICAL CONFIRMATION. THE APPLICABLE HILFIKER CONSTRUCTION GUIDE AND SPECIFICATIONS ARE AN INTEGRAL PART OF THIS SUBMITTAL. PROJECT PLANS: CITY AND BOROUGH OF JUNEAU, EAGLECREST PTARMIGAN LIFT OFF-LOAD RAMP, CONTRACT NO. BEI7-256, DATED APRIL 28, 2017. Sta 10+01.18 -Sta 10+54.26 Top corner wall Top corner wall Shotrock embankment at wall base West MSF wall Sta 10+15.18 20.0 RT 1.5:1 Embankment slope Coping corner, top of ramp I NOTES AND LL PLAN PLAN VIEW DESIGN N WALI SCALE: 1"=10' MECHANICALLY STABILIZED
EARTH WALL
FOR:
HILFIKER RETAINING WALLS
EAGLECREST PTARMIGN LIFT
OFF-LOAD RAMP
UNDEAL AASKA
PROJECT NO HRW 17053CW Date: July 31, 2017 As Noted NM

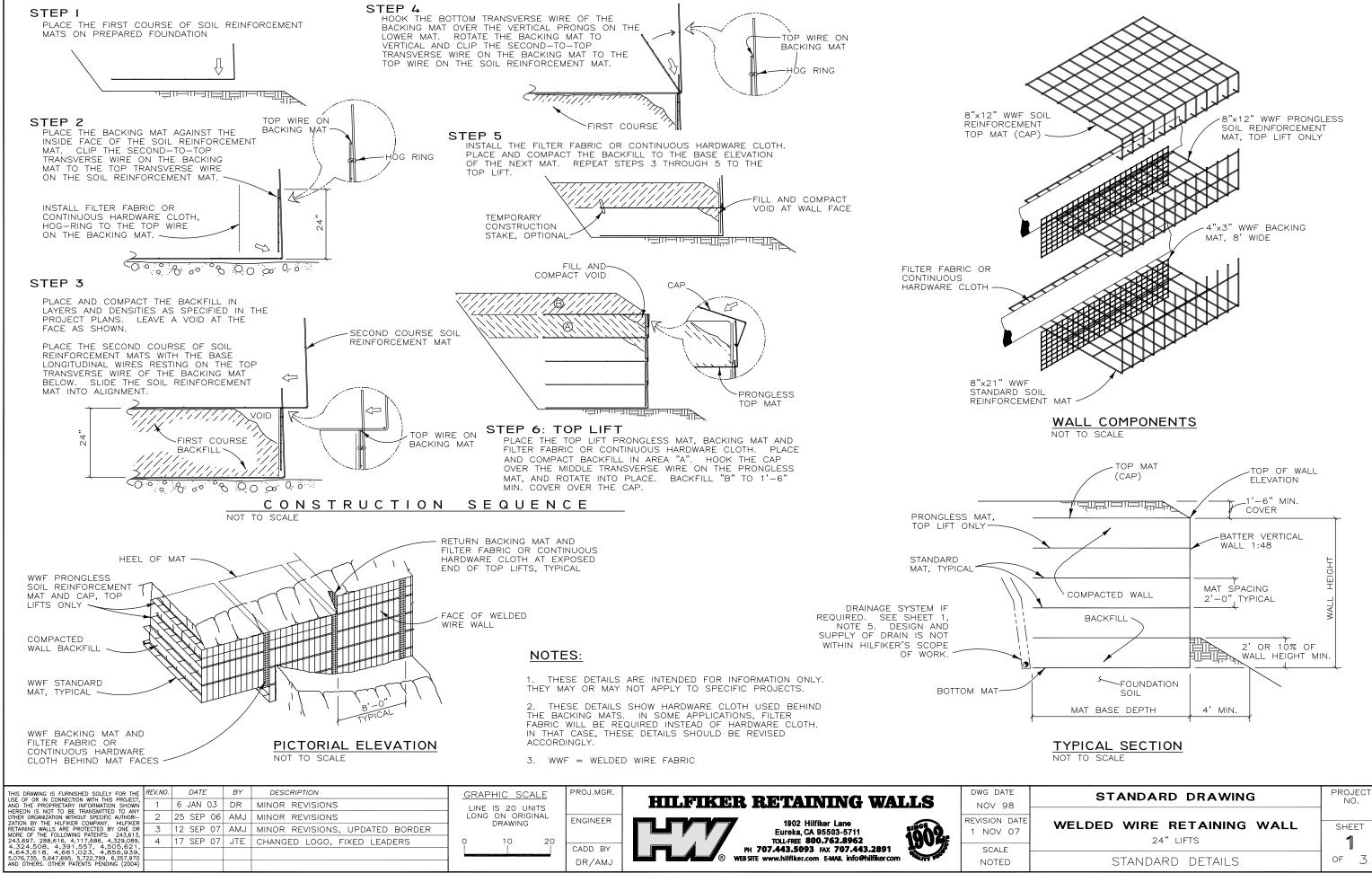
S-1

JOB NUMBER
17-2141









CADD BY

DR/AMJ

TOLL-FREE 800.762.8962

PH 707.443.5093 FAX 707.443.2891

SCALE

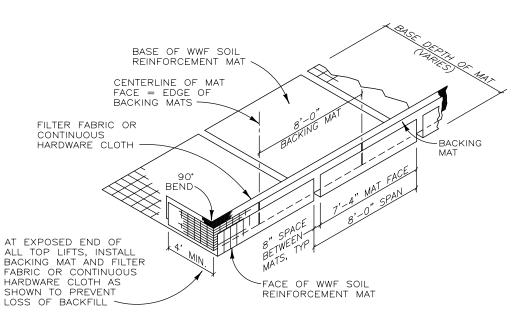
NOTED

24" LIFTS

STANDARD DETAILS

OF 3

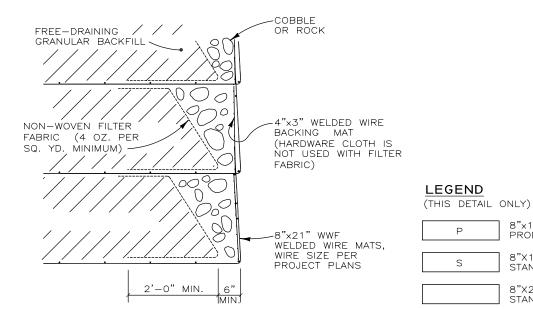
4 17 SEP 07 JTE CHANGED LOGO, FIXED LEADERS



#### ISOMETRIC VIEW

## WELDED WIRE WALL COMPONENTS WITH RETURN MAT

NOT TO SCALE

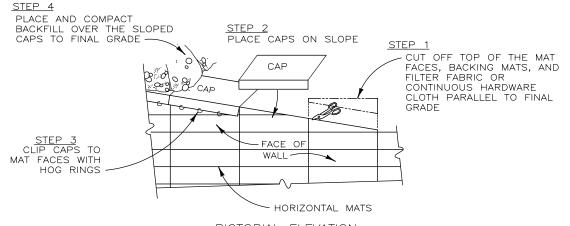


#### SECTION **ROCK FACING DETAIL** NOT TO SCALE

OTHER **APPURTENANCE** -BASE OF MAT FROM FRONT FACE OF WELDED WIRE WALL BEND BACKING MAT AND FILTER FABRIC OR BACKING MAT AND FILTER FABRIC OR CONTINUOUS
HARDWARE CLOTH CONTINUOUS HARDWARE CLOTH 90°. INSTALL UNCUT AT CORNER -FILTER FABRIC OR CONTINUOUS HARDWARE CLOTH -BACKING MAT END OF WELDED WIRE WALL FACE OF WELDED WIRE WALL PLAN VIEW

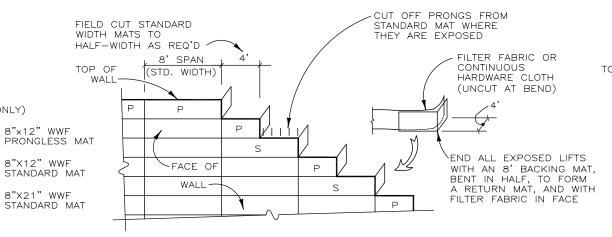
# WELDED WIRE WALL END AT OTHER APPURTENANCE

NOT TO SCALE



### PICTORIAL ELEVATION SLOPED CAP MAT DETAIL

NOT TO SCALE



#### RETURN MATS AND TOP OF WALL DETAIL NOT TO SCALE

HILFIKER RETAINING WALLS



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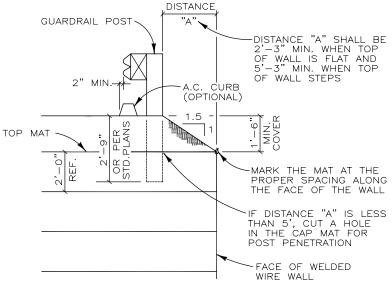
STANDA	DWG DATE
	NOV 98
WELDED WIR	REVISION DATE 1 NOV 07
-	SCALE
STAND	NOTED

CLOSE END OF WALL AT APPURTENANCE AS SHOWN IN "WELDED WIRE WALL END AT APPURTENANCE" DETAIL, THIS SHEET FACE OF WELDED WIRE WALL BASE OF WWF SOIL REINFORCING MAT CUT TRANSVERSE WIRES ONLY WHERE REQUIRED, AND BEND LONGITUDINAL WIRES TO DEFLECT AT INTERFERENCE **APPURTENANCE** 

PLAN VIEW

# DEFLECTED LONGITUDINAL WIRES

NOT TO SCALE



**SECTION** 

### GUARDRAIL DETAIL

PROJECT NO.

SHFFT

2

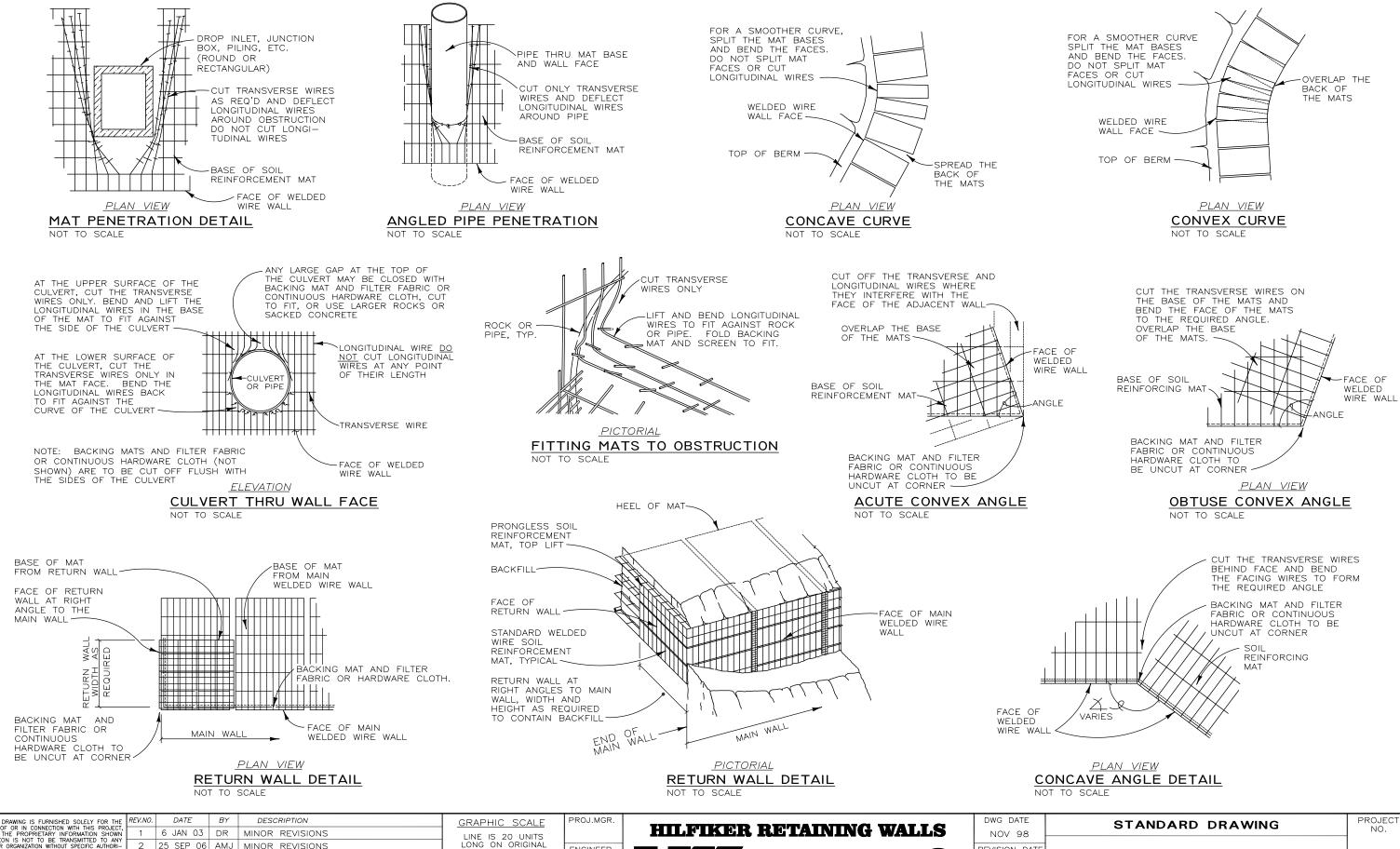
OF

(FENCE DETAIL SIMILAR)

THIS DRAWING IS FURNISHED SOLELY FOR THE USE OF OR IN CONNECTION WITH THIS PROJECT, AND THE PROPIETTARY INFORMATION SHOWN HEREON IS NOT TO BE TRANSMITTED TO ANY OTHER ORGANIZATION WITHOUT SPECIFIC AUTHORIZATION BY THE HILFIKER COMPANY, HILFIKER RETAINING WALLS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING PATENTS: 243,613, 243,697, 288,616, 4,117,686, 4,329,089, 4,324,508, 4,361,557, 4,505,621,4,643,618, 4,661,023, 4,856,939,5076,735,5647,695,5722,799,6,357,970 AND OTHERS. OTHER PATENTS PENDING (2004) DATE BY DESCRIPTION 6 JAN 03 DR | MINOR REVISIONS 2 25 SEP 06 AMJ MINOR REVISIONS

RD DRAWING **RETAINING WALL** 24" LIFTS ARD DETAILS

PROJ.MGR GRAPHIC SCALE LINE IS 20 UNITS LONG ON ORIGINAL **ENGINEER** DRAWING 3 | 12 SEP 07 | AMJ | MINOR REVISIONS, UPDATED BORDER 1 NOV 07 JTE CHANGED LOGO, FIXED LEADERS CADD BY DR/AMJ NOT TO SCALE



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DRAWING

**ENGINEER** 

CADD BY DR/AMJ

Eureka, CA 95503-571 TOLL-FREE 800.762.8962 PH 707.443.5093 FAX 707.443.2891



	DWG DATE	
	NOV 98	
	REVISION DATE	
LE .	1 NOV 07	
7	SCALE	_
	NOTED	

DWG DATE	STANDARD DRAWING	
NOV 98		
REVISION DATE 1 NOV 07	WELDED WIRE RETAINING WALL 24" LIFTS	
SCALE NOTED	STANDARD DETAILS	

SHFFT

3

3

OF