DESIGN NOTES

1. Design is based on the assumption that backfill within the reinforced soil mass, methods of construction and quality of materials conform to the requirements of Hilfiker Retaining Walls.

2. Assumed Soil Characteristics:
   - Wall Backfill:
     - Unit Weight: 130 pcf
     - Internal Friction Angle: 34°
     - Cohesion = 0 psf
   - Retained Backfill:
     - Unit Weight: 125 pcf
     - Internal Friction Angle: 32°
     - Cohesion = 0 psf
   - Foundation Soils:
     - Unit Weight: 120 pcf
     - Internal Friction Angle: 30°
     - Cohesion = 0 psf
   - Traffic Surcharge Loading (LL) = 250 psf

   Worst Case Applied Bearing Pressure by MSE Wall- @ 28' Height - 4330 psf.

   If actual characteristics, grades or dimensions of soil materials differ from those listed above or shown on the plans, Hilfiker Retaining walls shall be notified to evaluate the need to redesign.

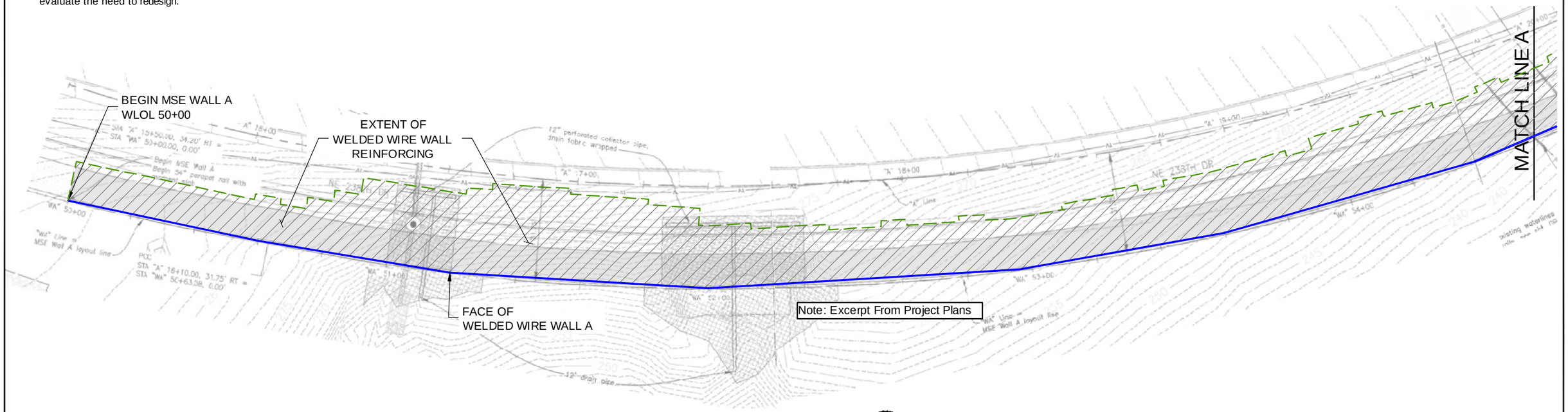
3. If during construction, the wall location, structure location or loads are different than that proposed in this plan set and calculation package, HRW shall be notified to evaluate the need for a redesign.

4. The design requires a non-saturated backfill. Surface and sub-surface drainage control may be required to prevent saturation of the backfill or relieve hydrostatic pressures.

5. Design Procedure:
   Mechanically Stabilized Earth walls and Reinforced Soil Slopes, FHWA report No. FHWA-NHI-00-043.

6. All information hereon is derived from the reference drawings, and is subject to geometric and geotechnical confirmation. The applicable Hilfiker construction guide and specifications are an integral part of this submittal.

7. Hilfiker Retaining Walls shall be responsible only for the internal stability of the retaining wall, and not for global stability or foundation bearing capacity. The Owner shall be responsible for global stability and foundation competence. The Owner is responsible for all job site drainage, safety and fall protection provisions for workers in compliance with OSHA and any other applicable requirements.



INSTALLED QUANTITIES:

WELDED WIRE WALL A:	15376 FT^2
WELDED WIRE WALL B: 2016	**FT^2**
TOTAL WALL AREA:	17392 FT^2

WALL A - PLAN VIEW

SCALE: 1" = 30'

HW 200221CW

REV.NO.	DATE	BY	DESCRIPTION
	2-10-21	KLC	Initial .pdf Release
	3-16-21	KLC	Revised per 3.8.21 Plan Check
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	4-06-21	KLC	Revised per 4.05.21 Teleconference (.xml file)
	4-09-21	KLC	Revised Plan Views
	4-15-21	KLC	Revised per 4.12.21 Plan Check

HILFIKER RETAINING WALLS
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Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.5093 FAX 707.443.2891
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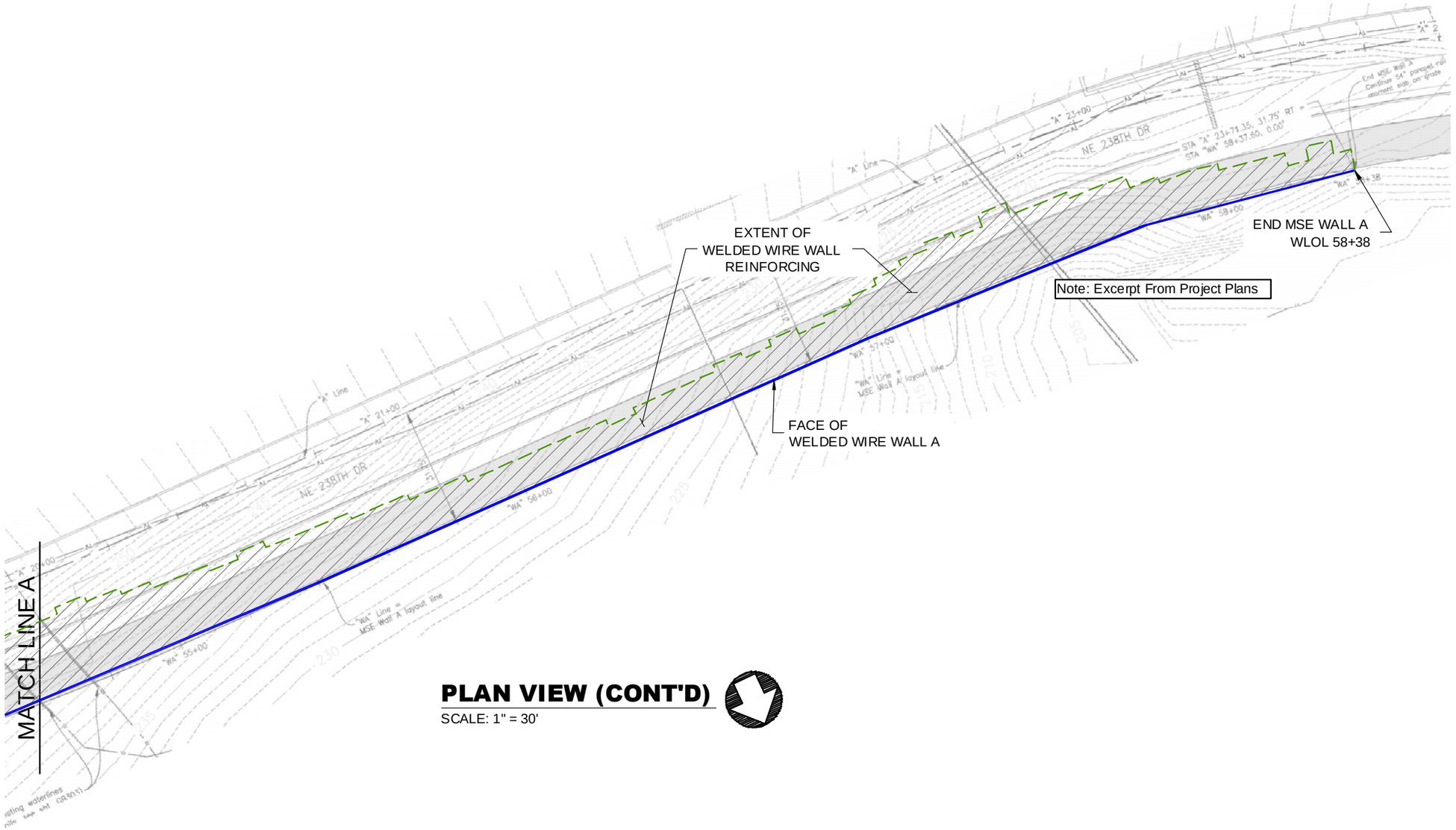
MSE WELDED WIRE WALL A
PLAN VIEW & GENERAL NOTES

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

SHT 1 OF 10



PLAN VIEW (CONT'D)

SCALE: 1" = 30'

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HW 200221CW

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NE 238TH DR. - NE HALSY ST - NE GILISAN

MSE WELDED WIRE WALL A
PLAN VIEW (CONT'D)

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

SHT 2 OF 10

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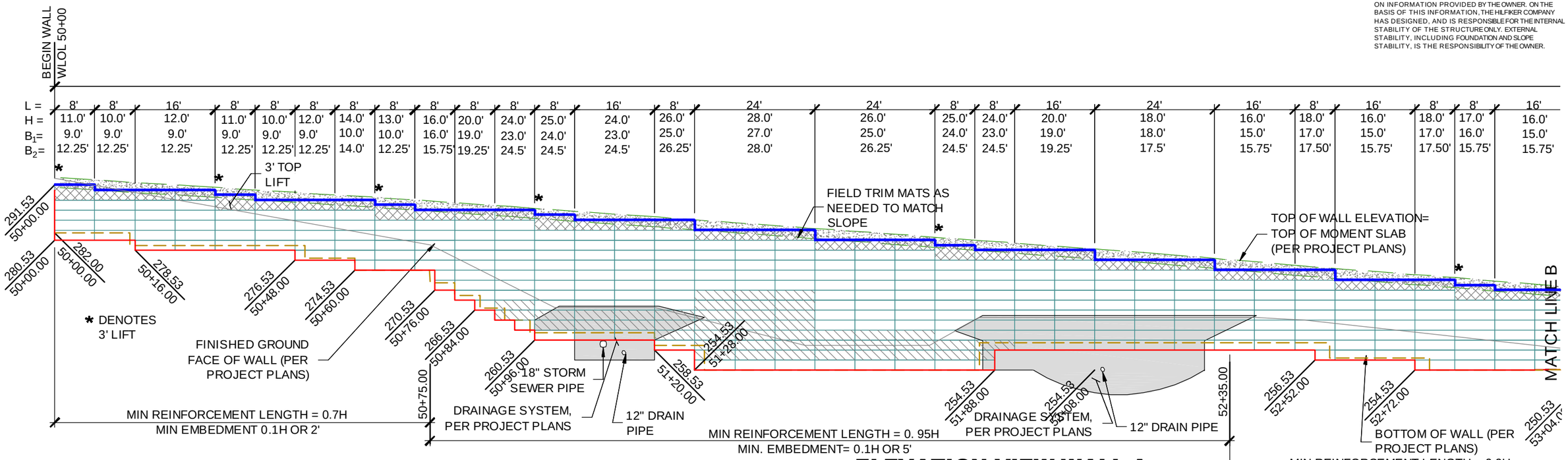

L =	8'	8'	16'	8'	8'	8'	8'	8'	8'	8'	8'	8'	8'	16'	8'	24'	24'	8'	8'	16'	24'	16'	8'	16'	8'	8'	16'
H =	11.0'	10.0'	12.0'	11.0'	10.0'	12.0'	14.0'	13.0'	16.0'	20.0'	24.0'	25.0'	24.0'	24.0'	26.0'	28.0'	26.0'	25.0'	24.0'	20.0'	18.0'	16.0'	18.0'	16.0'	18.0'	17.0'	16.0'
B_1=	9.0'	9.0'	9.0'	9.0'	9.0'	9.0'	10.0'	10.0'	16.0'	19.0'	23.0'	24.0'	23.0'	23.0'	25.0'	27.0'	25.0'	24.0'	23.0'	19.0'	18.0'	15.0'	17.0'	15.0'	17.0'	16.0'	15.0'
B_2=	12.25'	12.25'	12.25'	12.25'	12.25'	12.25'	14.0'	12.25'	15.75'	19.25'	24.5'	24.5'	24.5'	24.5'	26.25'	28.0'	26.25'	24.5'	24.5'	19.25'	17.5'	15.75'	17.50'	15.75'	17.50'	15.75'	15.75'

ELEVATION VIEW WALL A

SCALE: 1" = 20'

WELDED WIRE WALL PARAMETERS WALL STA 50+00 TO 50+75 (B=0.7H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
≤9'	9.0'	8.75'
10'-12'	9.0'	12.25'
13'	10.0'	12.25'
14'	10.0'	14.0'
15'	11.0'	14.0'
16'	12.0'	15.75'
18'	13.0'	17.5'
20'	14.0'	19.25'
21'	15.0'	19.25'
22'	16.0'	21.0'

WELDED WIRE WALL PARAMETERS WALL STA 50+75 TO 52+35 (B=0.95H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
14'	13.0'	14.0'
16'	16.0'	15.75'
18'	18.0'	17.5'
20'	19.0'	19.25'
22'	21.0'	21.0'
23'	22.0'	22.75'
24'	23.0'	24.5'
25'	24.0'	24.5'
26'	25.0'	26.25'
28'	27.0'	28.0'

WELDED WIRE WALL PARAMETERS WALL STA 52+35 TO 56+75 (B=0.9H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
14	13.0'	14.0'
16'	15.0'	15.75'
17'	16.0'	15.75'
18'	17.0'	17.5'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 100 YEARS

- TYPE 1 - 8X12 W7.0x3.5 MATS (CAP & PRONGLESS)
- TYPE 3 - 8x21 W7.0x4.0 MATS (STANDARDS)
- TYPE 4 - 8x21 W9.5x4.0 MATS (STANDARDS)

HW 200221CW

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Eureka, CA 95503-5711
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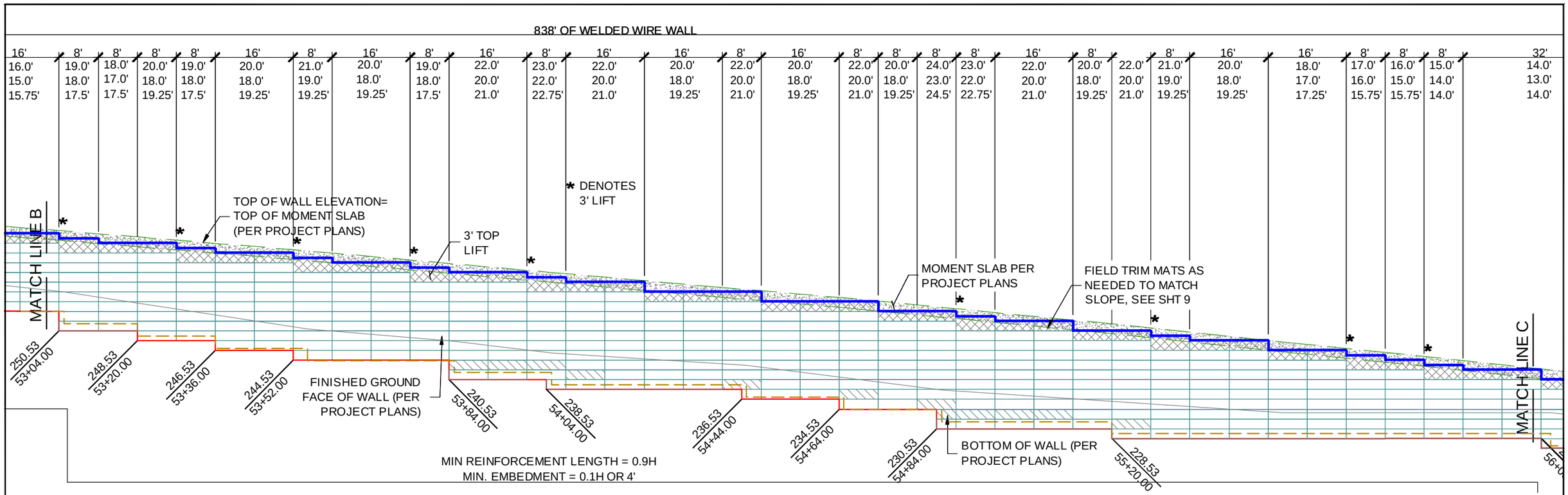
NE 238TH DR. - NE HALSY ST - NE GILISAN

MSE WELDED WIRE WALL A ELEVATION VIEW

PROJECT 21-007
DATE 2-10-21
DESIGN KLC
DRAWN KLC

SHT 3 OF 10



ELEVATION VIEW WALL A (CONT'D)

SCALE: 1" = 20'

WELDED WIRE WALL PARAMETERS WALL STA 52+35 TO 56+75 (B=0.9H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
10'	9.0'	12.25'
11'	10.0'	10.5'
12'	11.0'	12.25'
13'	12.0'	12.25'
14'	13.0'	14.0'
15'	14.0'	14.0'

WELDED WIRE WALL PARAMETERS WALL STA 52+35 TO 56+75 (B=0.9H MIN) CONT'D		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
16'	15.0'	15.75'
17'	16.0'	15.75'
18'	17.0'	17.5'
19'	18.0'	17.5'
20'	18.0'	19.25'
21'	19.0'	19.25'
22'	20.0'	21.0'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 100 YEARS

- TYPE 1 - 8X12 W7.0x3.5 MATS (CAP & PRONGLESS)
- TYPE 3 - 8x21 W7.0x4.0 MATS (STANDARDS)
- TYPE 4 - 8x21 W9.5x4.0 MATS (STANDARDS)

HW 200221CW

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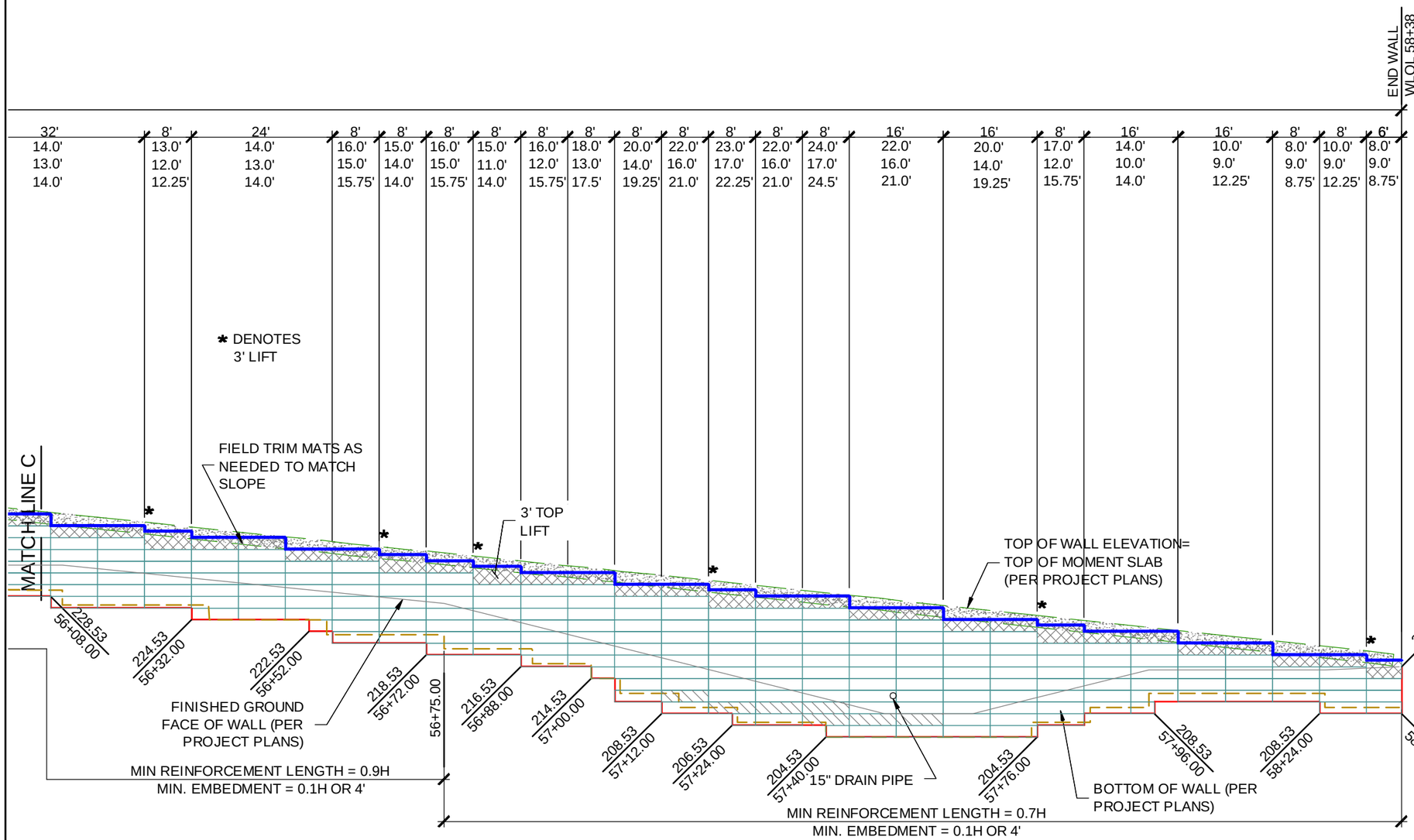
NE 238TH DR. - NE HALSY ST - NE GILISAN

MSE WELDED WIRE WALL A ELEVATION VIEW (CONT'D)

PROJECT 21-007
DATE 2-10-21
DESIGN KLC
DRAWN KLC
SHT 4 OF 10



ELEVATION VIEW WALL A (CONT'D)

SCALE: 1" = 20'

WELDED WIRE WALL PARAMETERS WALL STA 56+75 TO 58+38 (B=0.7H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
≤9'	9.0'	8.75'
10'-12'	9.0'	12.25'
13'	10.0'	12.25'
14'	10.0'	14.0'
15'	11.0'	14.0'
16'	12.0'	15.75'
17'	12.0'	15.75'
18'	13.0'	17.5'
20'	14.0'	19.25'
21'	15.0'	19.25'
22'	16.0'	21.0'
23'	17.0'	22.25'
24'	17.0'	24.5'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 100 YEARS

- TYPE 1 - 8X12 W7.0x3.5 MATS (CAP & PRONGLESS)
- TYPE 3 - 8x21 W7.0x4.0 MATS (STANDARDS)
- TYPE 4 - 8x21 W9.5x4.0 MATS (STANDARDS)

HW 200221CW

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	4-15-21	KLC	Revised per 4.12.21 Plan Check

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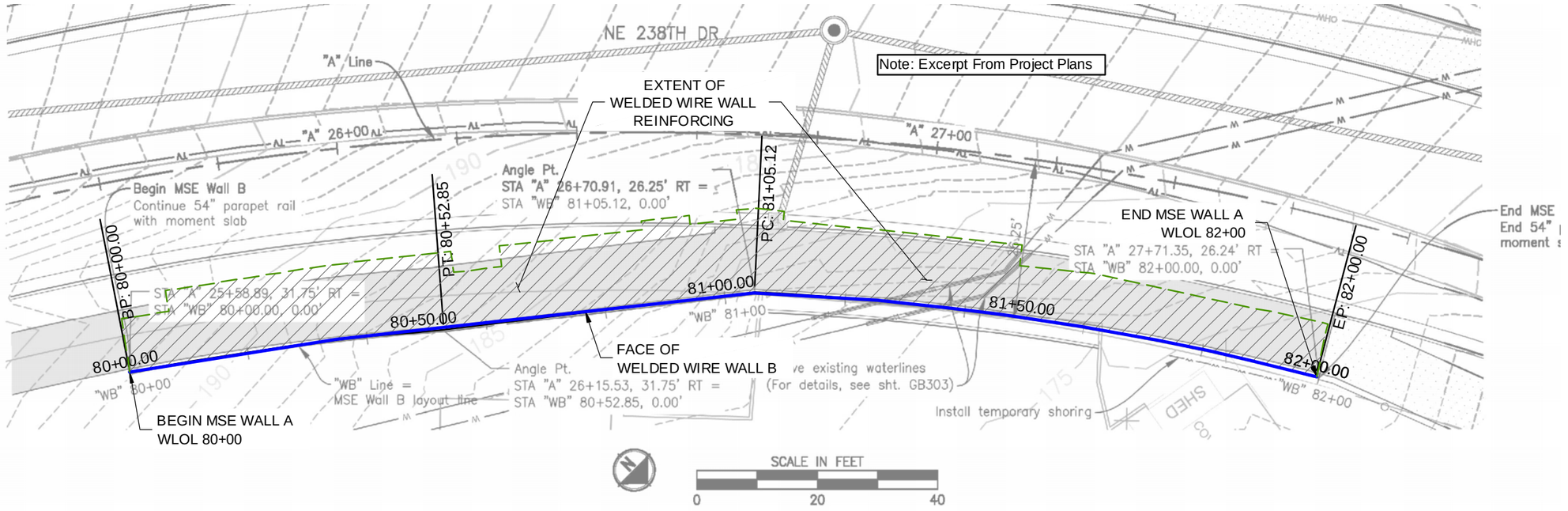
MSE WELDED WIRE WALL A ELEVATION VIEW (CONT'D)

PROJECT 21-007
DATE 2-10-21
DESIGN KLC
DRAWN KLC
SHT 5 OF 10



WALL B - PLAN VIEW

SCALE: 1" = 20'

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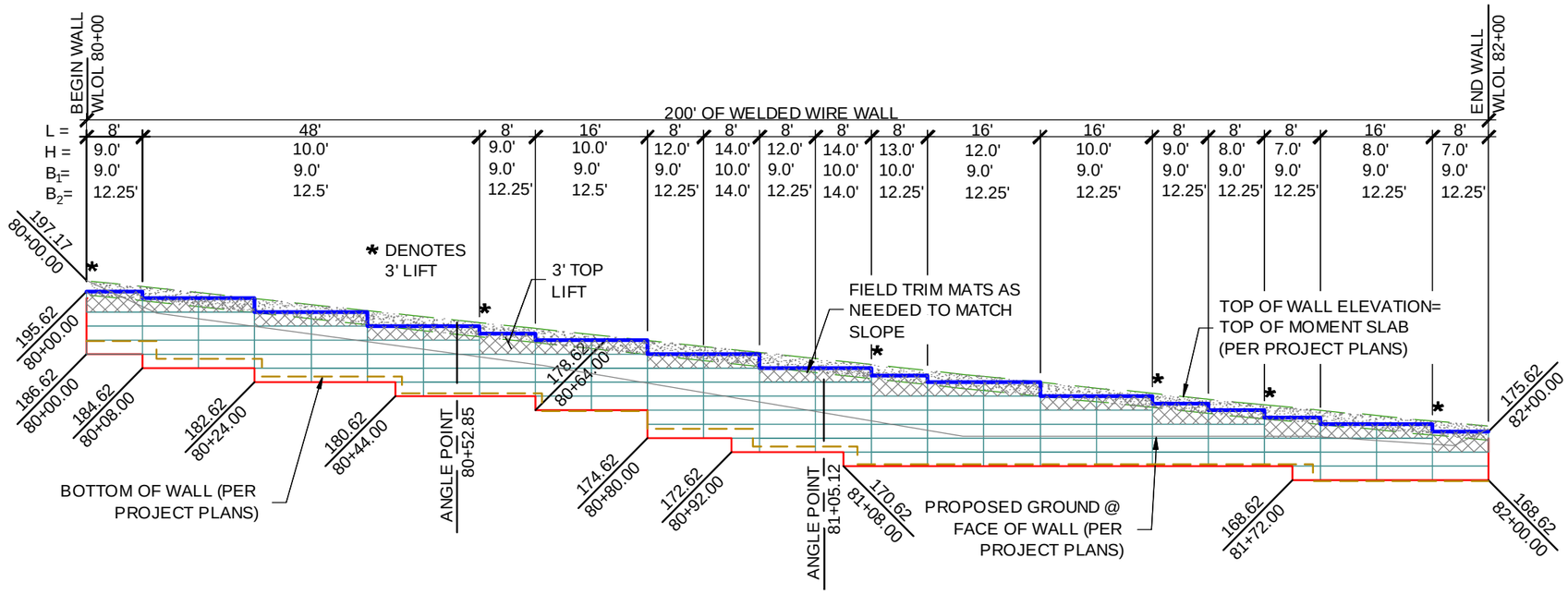
MSE WELDED WIRE WALL B
PLAN VIEW

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

SHT 6 OF 10



WALL B - ELEVATION VIEW

SCALE: 1" = 20'

WALL WIRE TYPE LEGEND

FINISH: HOT DIP GALVANIZED
SERVICE LIFE: 100 YEARS

- TYPE 1 - 8X12 W7.0x3.5 MATS (CAP & PRONGLESS)
- TYPE 3 - 8x21 W7.0x4.0 MATS (STANDARDS)
- TYPE 4 - 8x21 W9.5x4.0 MATS (STANDARDS)

WELDED WIRE WALL PARAMETERS WALL STA 80+00 TO 82+00 (B=0.7H MIN)		
Height of Wall (H) ft	Length of Cap & Prongless Mats (B_1) ft	Base Length of Mats (B_2) ft
≤12'	9.0'	12.25'
13'	10.0'	12.25'
14'	10.0'	14.0'

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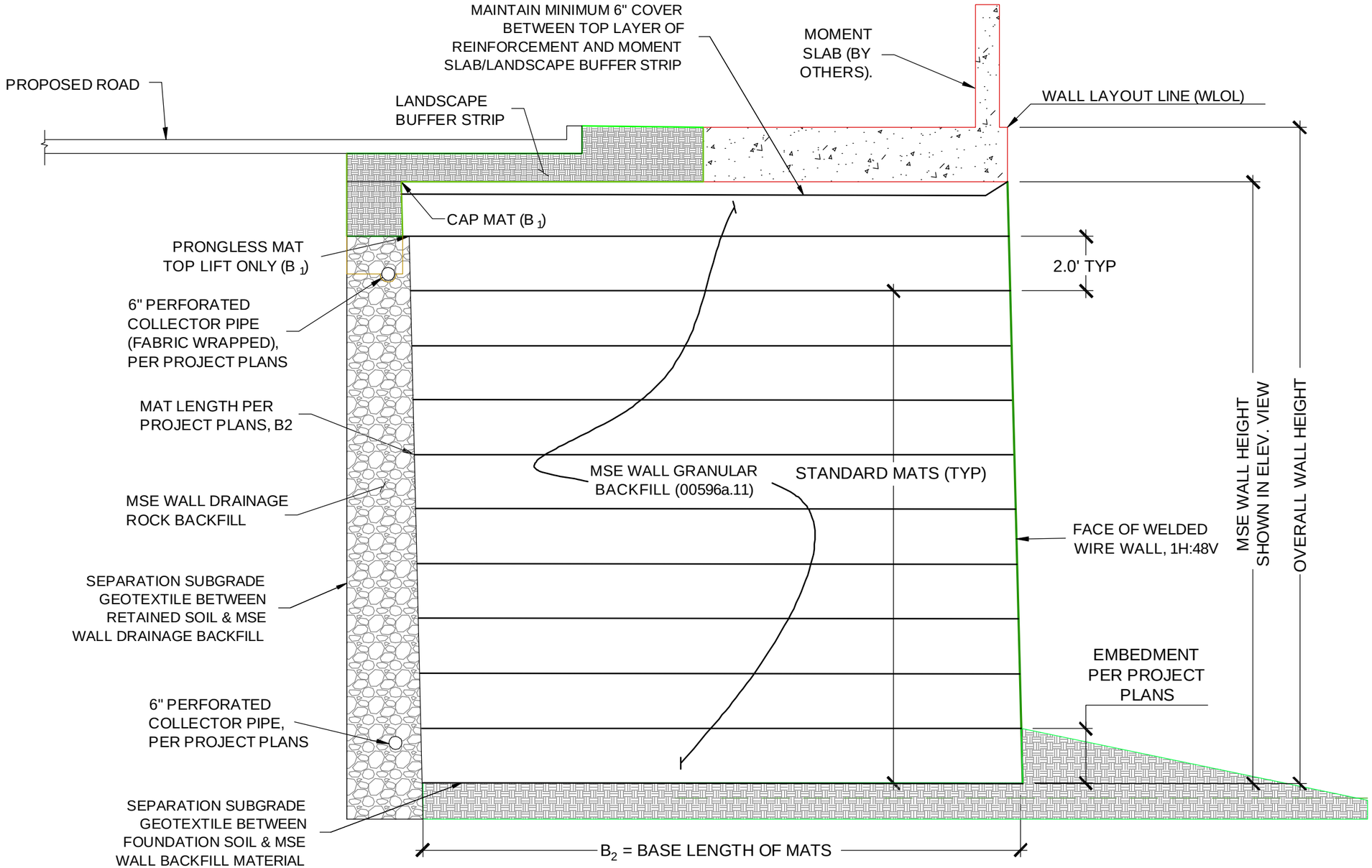
MSE WELDED WIRE WALL B ELEVATION VIEW

PROJECT 21-007
DATE 2-10-21
DESIGN KLC
DRAWN KLC

SHT 7 OF 10



CROSS SECTION, TYP

SCALE: 1" = 4'

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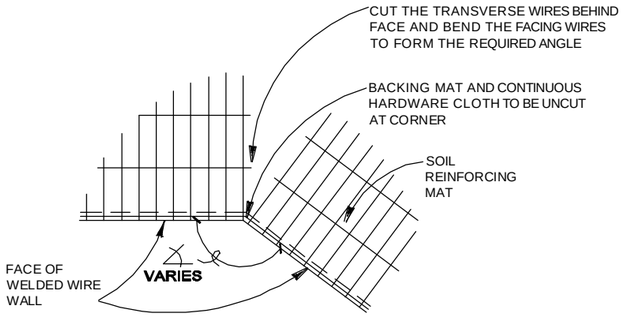
MSE WELDED WIRES
CROSS SECTION

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

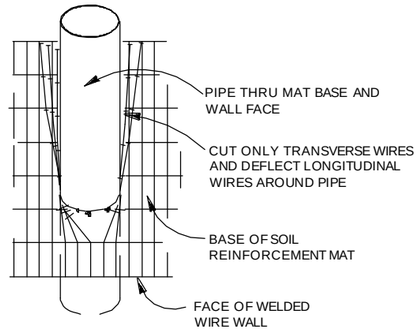
SHT 8 OF 10



PLAN VIEW

CONCAVE ANGLE DETAIL

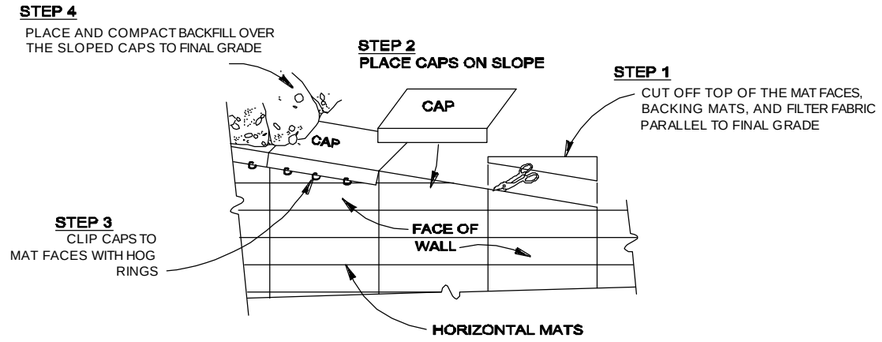
NOT TO SCALE



PLAN VIEW

PIPE OR SLEVE PENETRATION

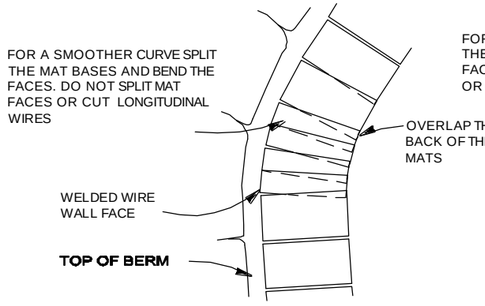
NOT TO SCALE



PICTORIAL ELEVATION

SLOPED CAP MAT DETAIL

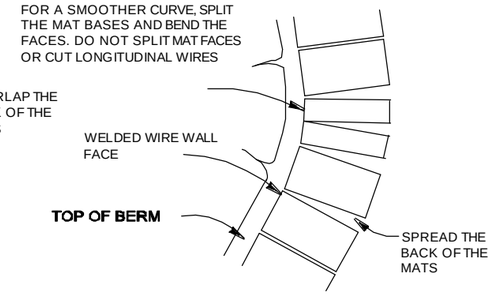
NOT TO SCALE



PLAN VIEW

CONVEX CURVE

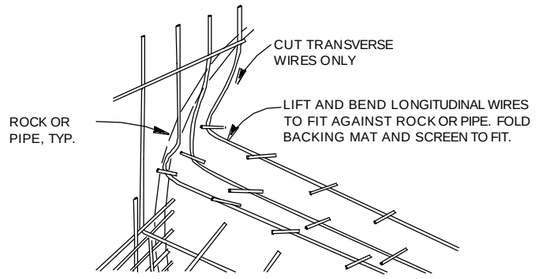
NOT TO SCALE



PLAN VIEW

CONCAVE CURVE

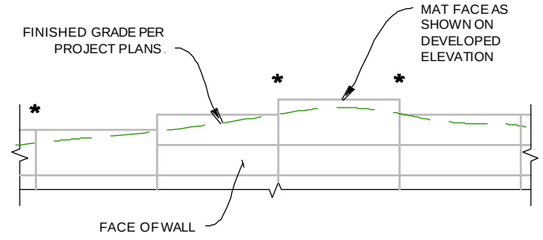
NOT TO SCALE

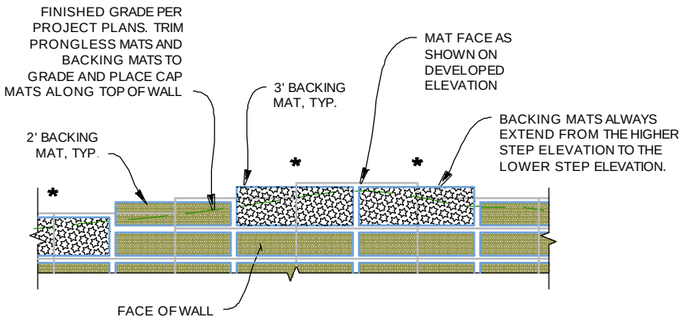


PICTORIAL

FITTING MATS TO OBSTRUCTION

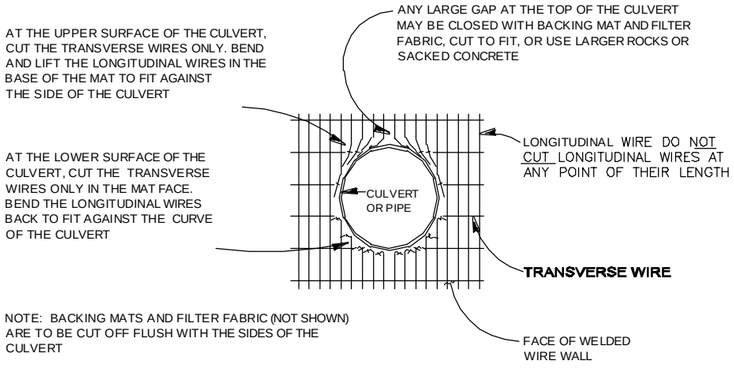
NOT TO SCALE





TRIMMING BACKING MATS ALONG TOP OF WALL

NOT TO SCALE



ELEVATION

CULVERT THRU WALL FACE

NOT TO SCALE

HW 200221CW

REV.NO.	DATE	BY	DESCRIPTION
	2-10-21	KLC	Initial .pdf Release
	3-16-21	KLC	Revised per 3.8.21 Plan Check
	3-30-21	KLC	Revised per 3.24.21 Plan Check

HILFIKER RETAINING WALLS
1902 Hilfiker Lane
Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.5093 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com

CESARETTI Engineered Solutions
CIVIL ENGINEERING SPECIALISTS
P.O. Box 132
Fortuna, CA 95540
Phone (707) 725-CESR
(707) 498-7193
CesarettiEngineered.com
KCesaretti@att.net

NE 238TH DR. - NE HALSY ST - NE GILISAN

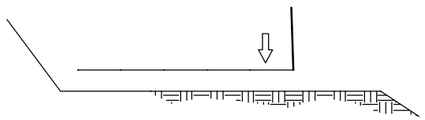
MSE WELDED WIRES
CROSS SECTION & DETAILS

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

SHT 9 OF 10

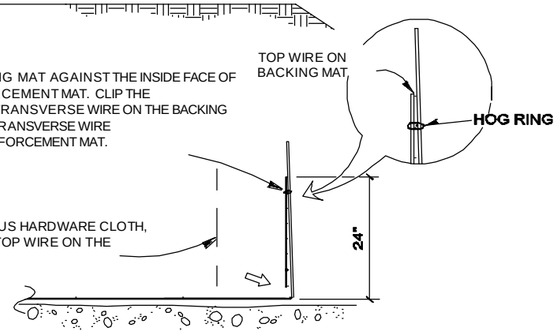
STEP 1

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION



STEP 2

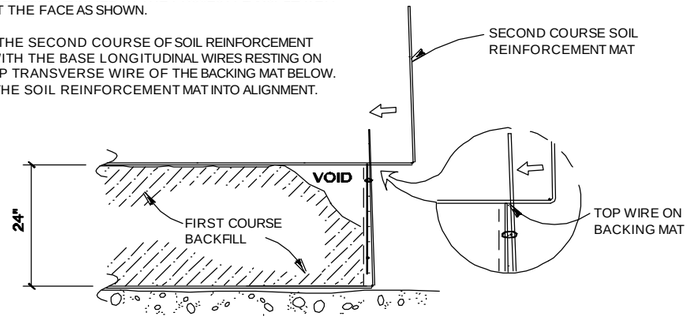
PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE SOIL REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT.



STEP 3

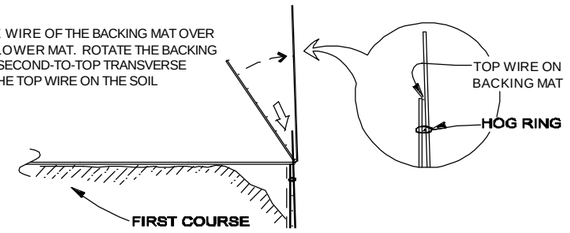
PLACE AND COMPACT THE BACKFILL IN LAYERS AND DENSITIES AS SPECIFIED IN THE PROJECT PLANS. LEAVE A VOID AT THE FACE AS SHOWN.

PLACE THE SECOND COURSE OF SOIL REINFORCEMENT MATS WITH THE BASE LONGITUDINAL WIRES RESTING ON THE TOP TRANSVERSE WIRE OF THE BACKING MAT BELOW. SLIDE THE SOIL REINFORCEMENT MAT INTO ALIGNMENT.



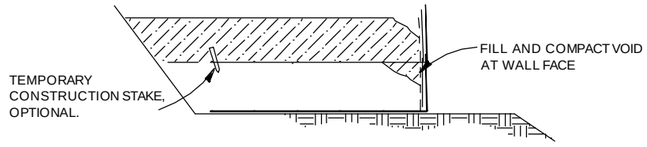
STEP 4

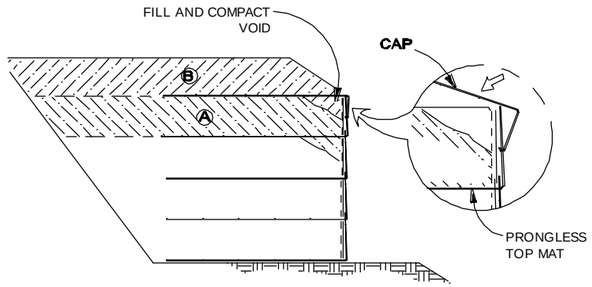
HOOK THE BOTTOM TRANSVERSE WIRE OF THE BACKING MAT OVER THE VERTICAL PRONGS ON THE LOWER MAT. ROTATE THE BACKING MAT TO VERTICAL AND CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP WIRE ON THE SOIL REINFORCEMENT MAT.



STEP 5

INSTALL THE CONTINUOUS HARDWARE CLOTH. PLACE AND COMPACT THE BACKFILL TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 3 THROUGH 5 TO THE TOP LIFT.



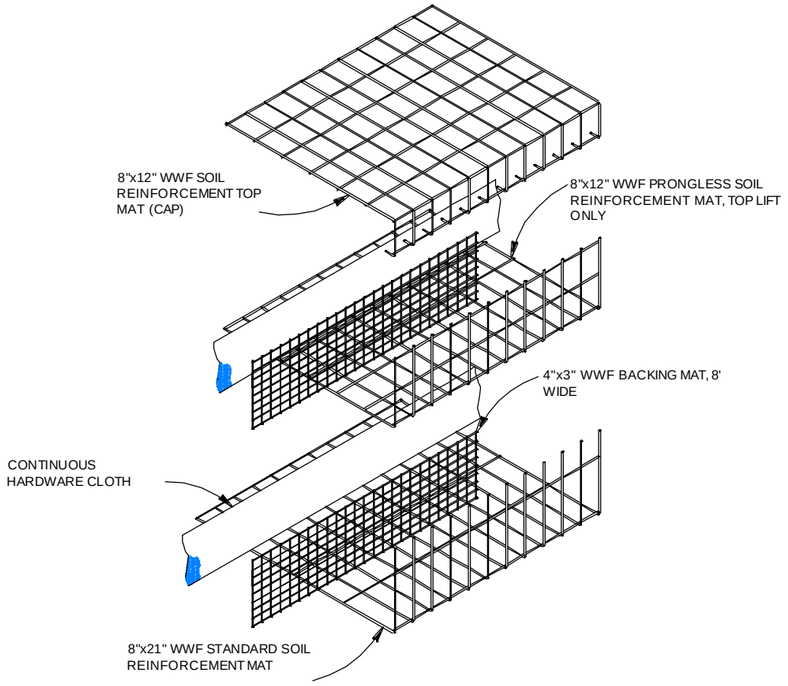


STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND CONTINUOUS HARDWARE CLOTH. PLACE AND COMPACT BACKFILL IN AREA "A". HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE. BACKFILL "B" TO 1'-6" MIN. COVER OVER THE CAP.

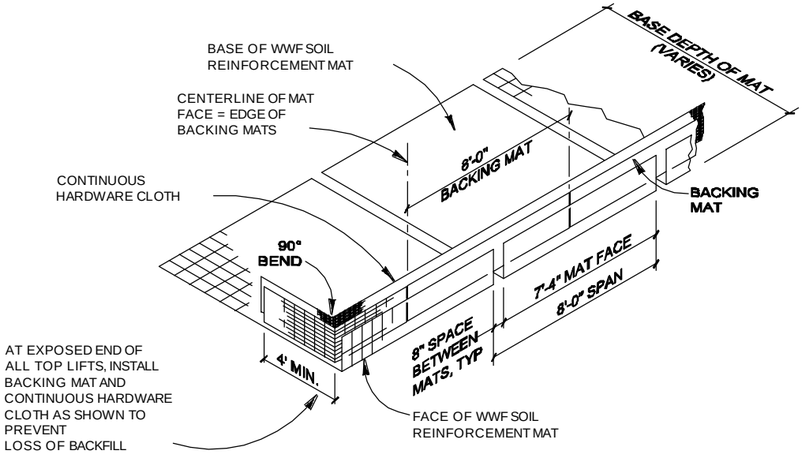
CONSTRUCTION SEQUENCE

NOT TO SCALE



WALL COMPONENTS

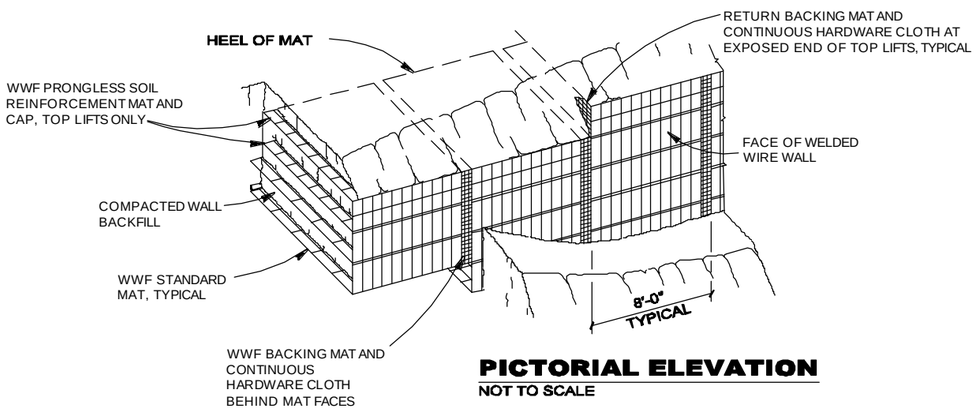
NOT TO SCALE



ISOMETRIC VIEW

WELDED WIRE WALL COMPONENTS WITH RETURN MAT

NOT TO SCALE



PICTORIAL ELEVATION

NOT TO SCALE

HW 200221CW

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1902 Hilfiker Lane
Eureka, CA 95503-5711
TOLL-FREE 800.762.8962
PH 707.443.5093 FAX 707.443.2891
WEB SITE www.hilfiker.com E-MAIL info@hilfiker.com

CESARETTI Engineered Solutions
CIVIL ENGINEERING SPECIALISTS
P.O. Box 132
Fortuna, CA 95540
Phone (707) 725-CESR
(707) 498-7193
CesarettiEngineered.com
KCesaretti@att.net

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MSE WELDED WIRES
CONTRUCTION SEQUENCE & DETAILS

PROJECT	21-007
DATE	2-10-21
DESIGN	KLC
DRAWN	KLC

SHT 10 OF 10