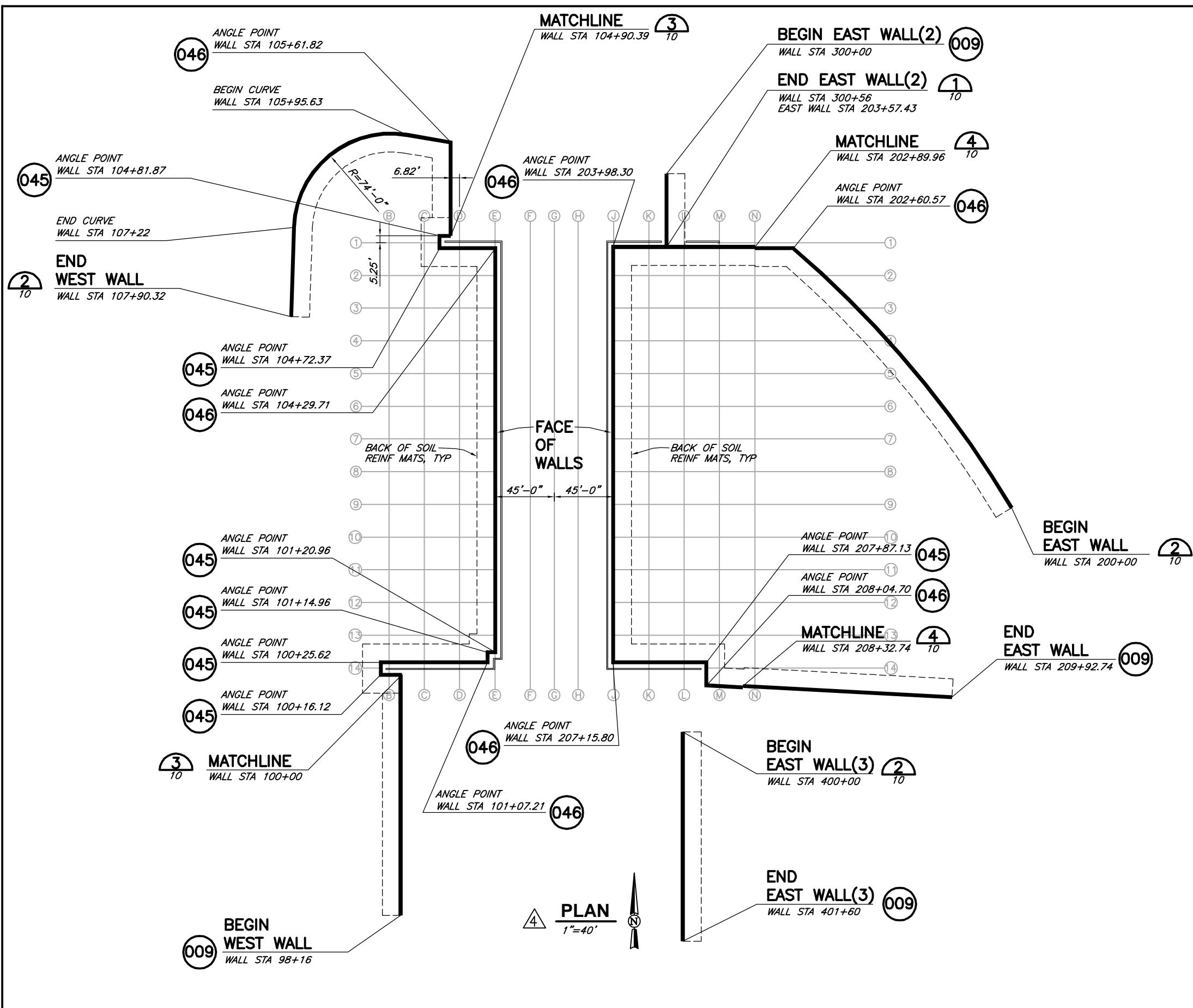


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- #### DESIGN NOTES
- DESIGN IS BASED ON THE ASSUMPTION THAT BACKFILL WITHIN THE REINFORCED SOIL MASS, METHODS OF CONSTRUCTION AND QUALITY OF MATERIALS CONFORM TO THE REQUIREMENTS OF HILFIKER RETAINING WALLS.
  - ASSUMED SOIL CHARACTERISTICS:  
 WALL BACKFILL:  
 UNIT WEIGHT: 130 PCF  
 INTERNAL FRICTION ANGLE: 38°  
 COHESION: 0 PSF  
 RANDOM BACKFILL:  
 UNIT WEIGHT: 130 PCF  
 INTERNAL FRICTION ANGLE: 38°  
 COHESION: 0 PSF  
 COEFFICIENT OF ACTIVE SOIL PRESSURE: 0.238  
 FOUNDATION SOILS:  
 FRICTION ANGLE FOR SLIDING: 30°  
 COHESION: 0 PSF  
 MAXIMUM APPLIED BEARING PRESSURE: 3.30 KSF (D.L+L.L.)  
 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.
  - 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.  
 DRAINAGE CONTROL SHALL BE AS SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS OR AS DIRECTED BY THE OWNER'S ENGINEER. PAYMENT FOR DRAINAGE SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
  - REFERENCE DOCUMENTS:  
 ELECTRONIC FILES IN .PDF FORMAT, RECEIVED FROM MORTENSON CONSTRUCTION ON 12/7/10.

- #### SHEET INDEX
- WALL PLANS AND NOTES
  - WEST WALL ELEVATION
  - WEST WALL ELEVATION
  - WEST AND EAST WALL ELEVATIONS
  - EAST WALL ELEVATION
  - EAST WALL ELEVATION
  - EAST WALL ELEVATIONS AND TRINITY BASKET DETAILS
  - WALL SECTION AND DETAILS
  - WALL SECTION AND DETAILS
  - DETAILS
  - WALL COMPONENTS AND CONSTRUCTION SEQUENCE



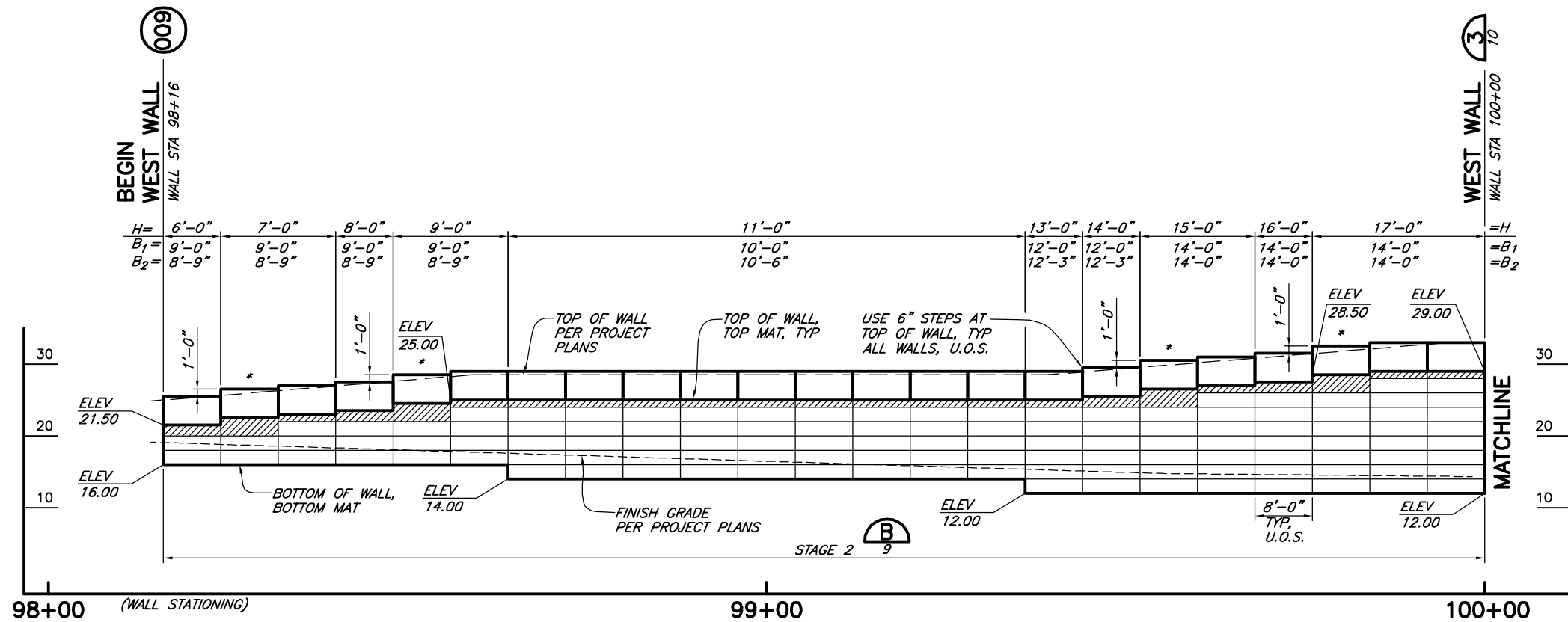
**WELDED WIRE WALLS**  
**HILFIKER RETAINING WALLS**

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

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K/JN K/JN K/JN K/JN BY	REVISION
Review comments Review comments Review comments Review comments	DATE
12/21/10 12/09/10 12/03/10 11/05/10	NO.
DSGN K/JN DR NMD CHK K/JN APVD	NO.
CITY OF SEATTLE PUBLIC UTILITIES SOUTH TRANSFER STATION SEATTLE, WASHINGTON <b>WALL PLANS AND NOTES</b>	
SHEET 1 OF 11	
DATE 10/22/10	
PROJ. NO. 010002.120	

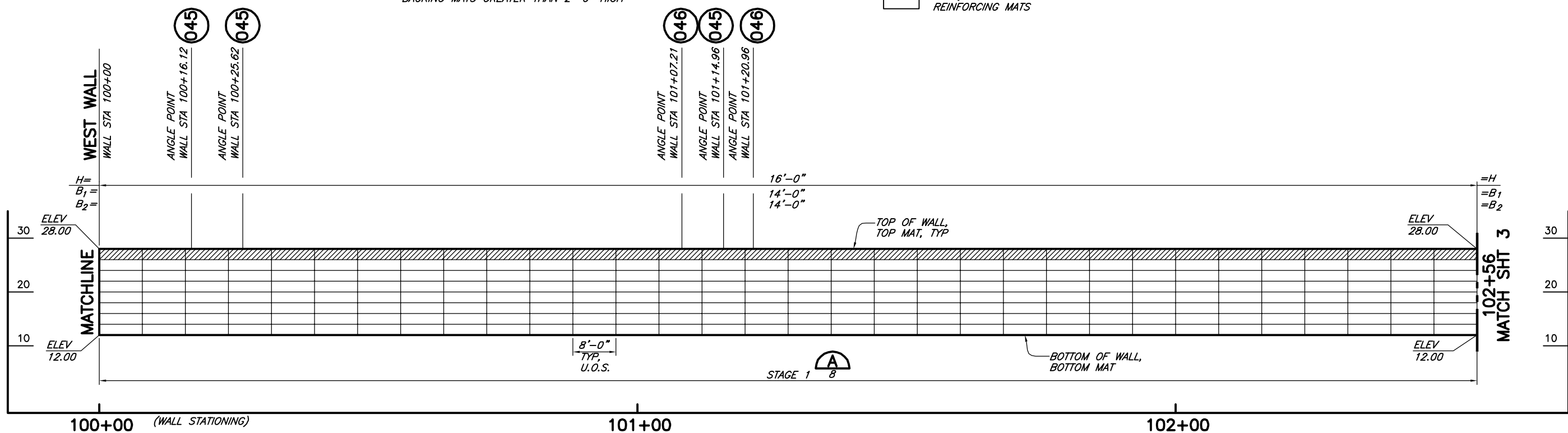
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**WWR MAT LEGEND**

- 8x12, W4.5xW3.5 WWR SOIL REINFORCING MATS
- 8x21, W7xW4 WWR SOIL REINFORCING MATS



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**WEST WALL ELEVATION**

SHEET 2 OF 11  
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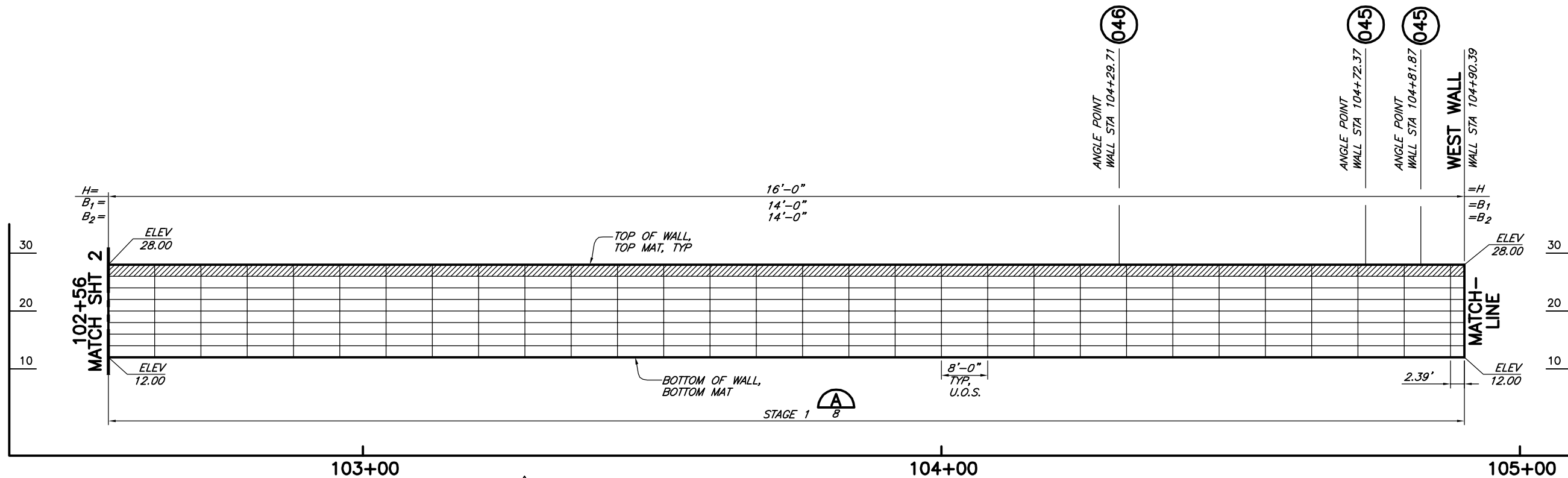
EXPIRES: 2/09/2012

WELDED WIRE WALLS  
**HILFIKER RETAINING WALLS**

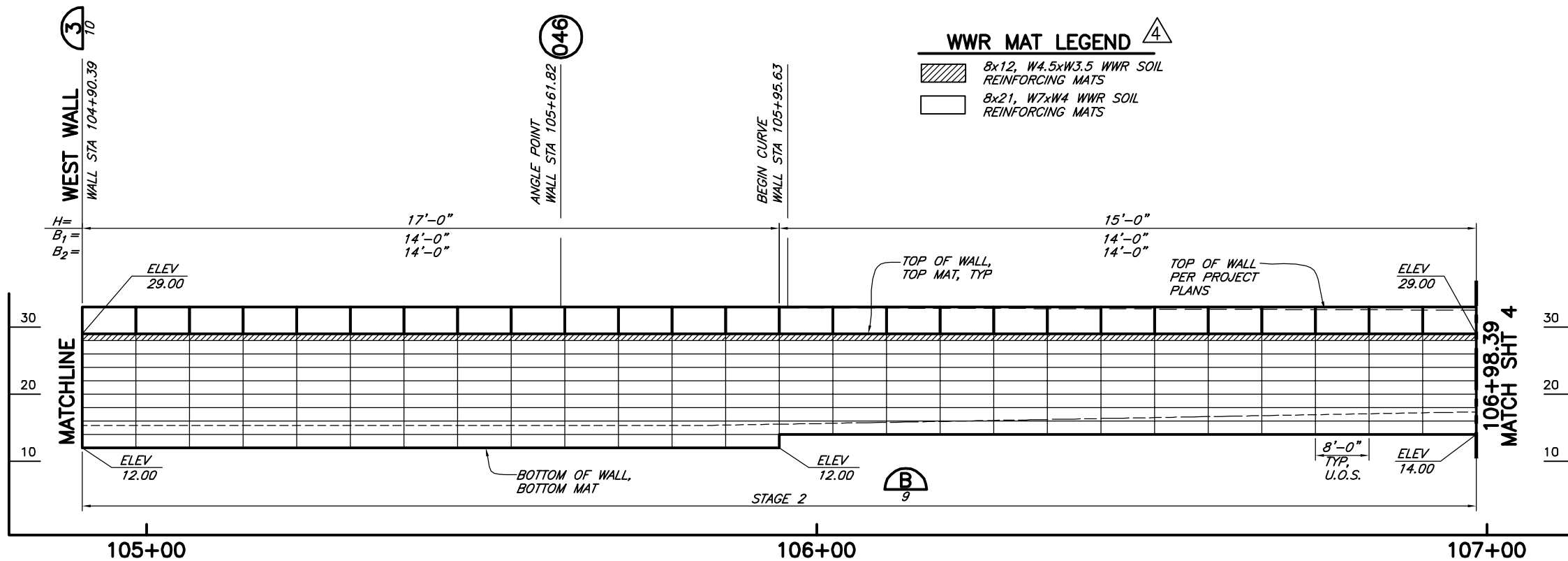
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


**4 DEVELOPED WALL ELEVATION- WEST (CONT) (STAGE 1)**  
 1"=10' HORIZ AND VERT  
 U.O.S.= UNLESS OTHERWISE STATED



**4 DEVELOPED WALL ELEVATION- WEST (CONT) (STAGE 2)**  
 1"=10' HORIZ AND VERT  
 U.O.S.= UNLESS OTHERWISE STATED

**WWR MAT LEGEND**

	8x12, W4.5xW3.5 WWR SOIL REINFORCING MATS
	8x21, W7xW4 WWR SOIL REINFORCING MATS

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**WELDED WIRE WALLS**  
**HILFIKER RETAINING WALLS**  
  
 1902  
 1902 QUALITY WALLS

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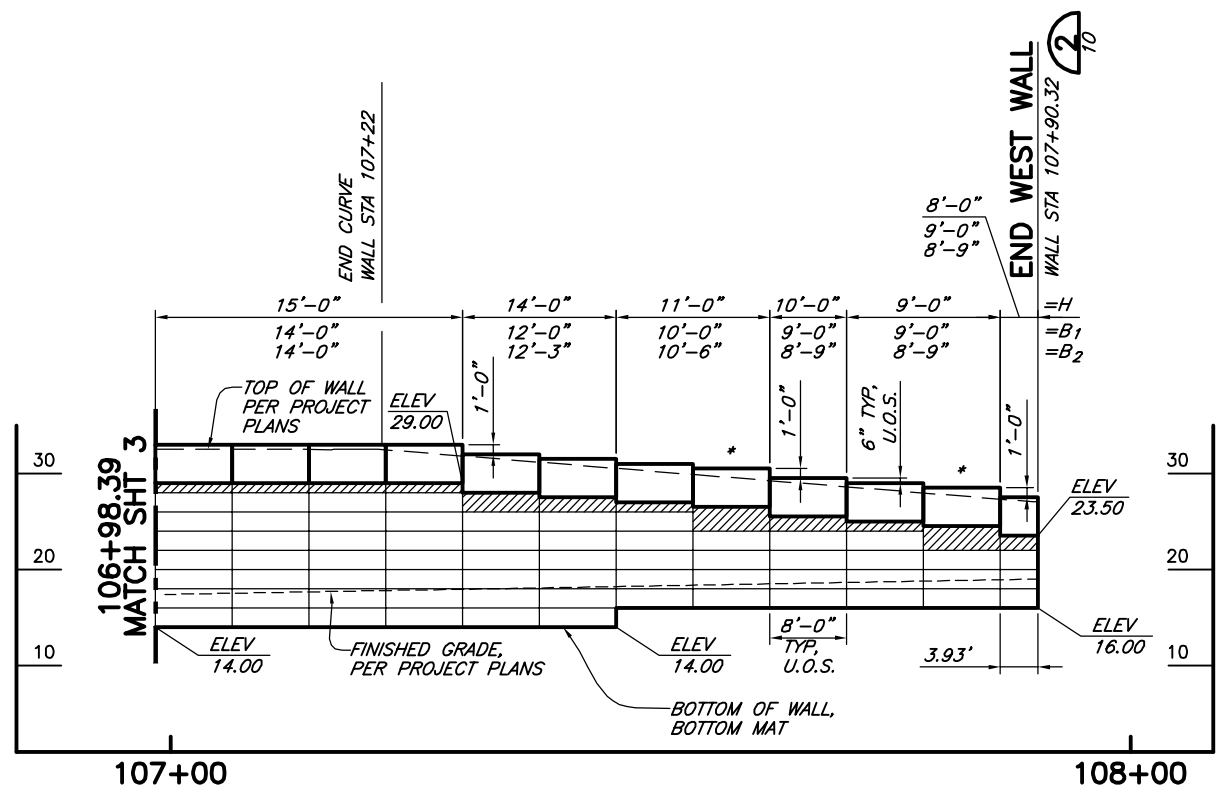
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4	11/05/10	K/JN	Review comments

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**WEST WALL ELEVATION**

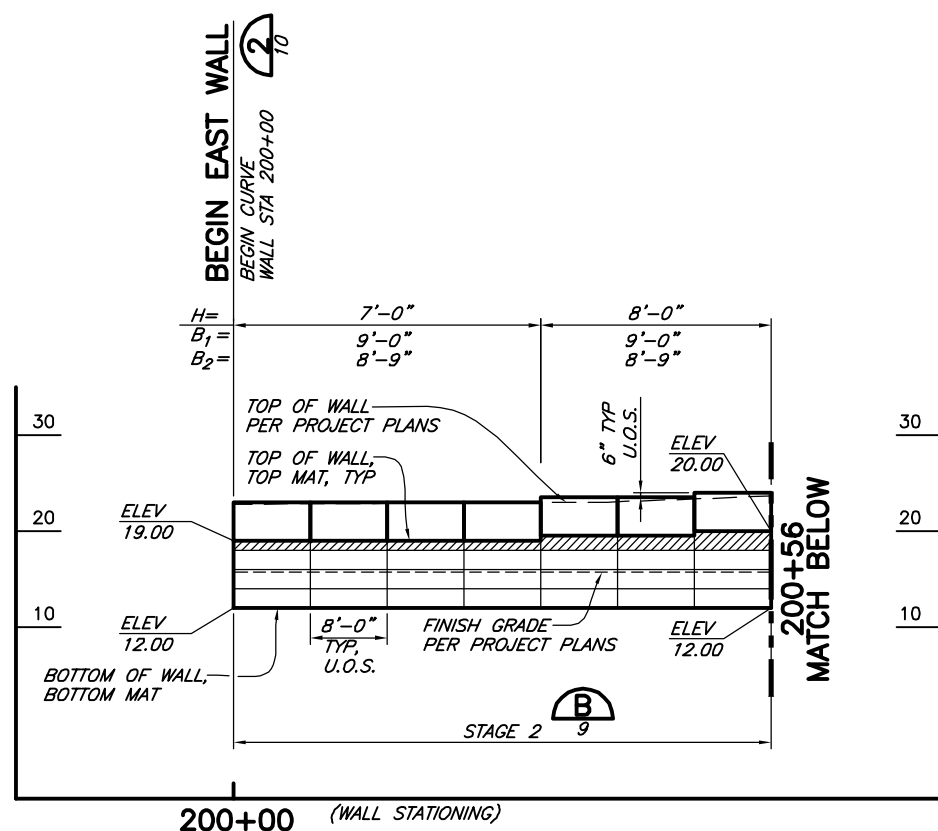
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4 DEVELOPED WALL ELEVATION- WEST (CONT) (STAGE 2)

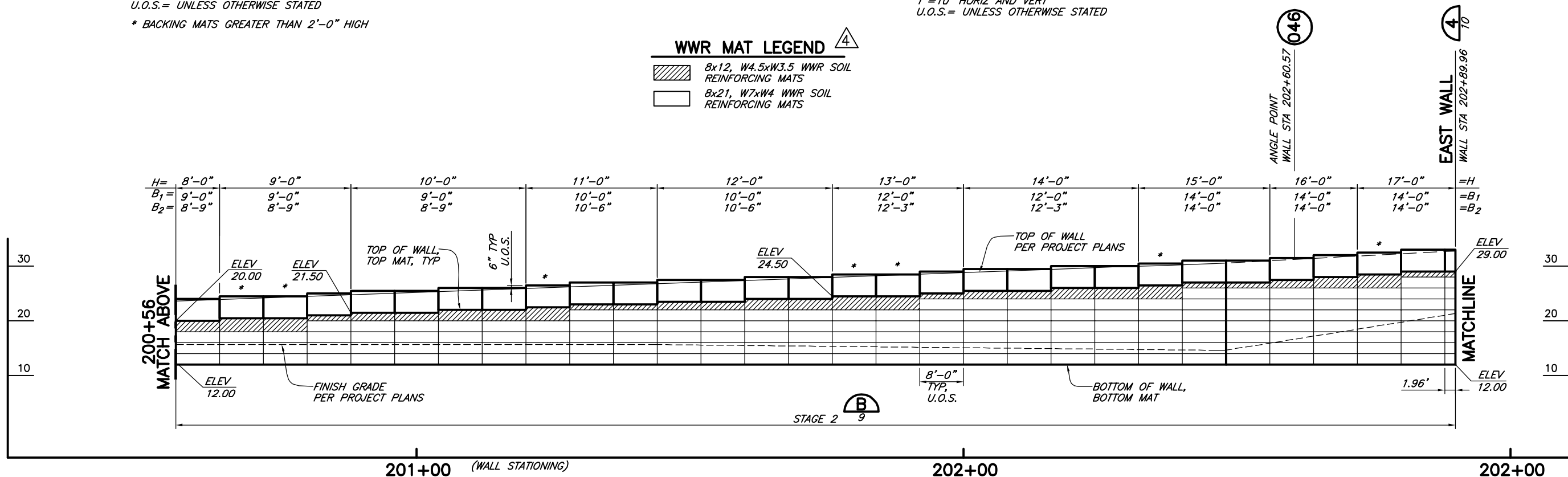
1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED  
\* BACKING MATS GREATER THAN 2'-0" HIGH



4 DEVELOPED WALL ELEVATION- EAST (STAGE 2)

1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED

- WWR MAT LEGEND**
- 8x12, W4.5xW3.5 WWR SOIL REINFORCING MATS
  - 8x21, W7xW4 WWR SOIL REINFORCING MATS



4 DEVELOPED WALL ELEVATION- EAST (CONT) (STAGE 2)

1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED  
\* BACKING MATS GREATER THAN 2'-0" HIGH

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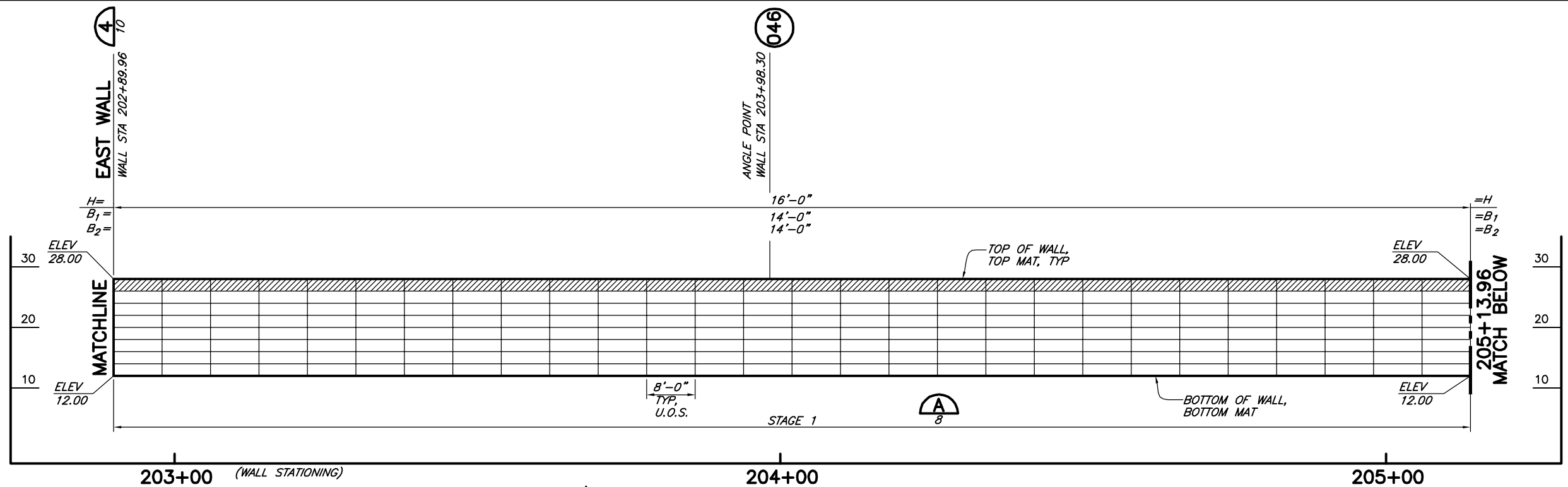
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**WELDED WIRE WALLS**  
**HILFIKER RETAINING WALLS**

**HW**

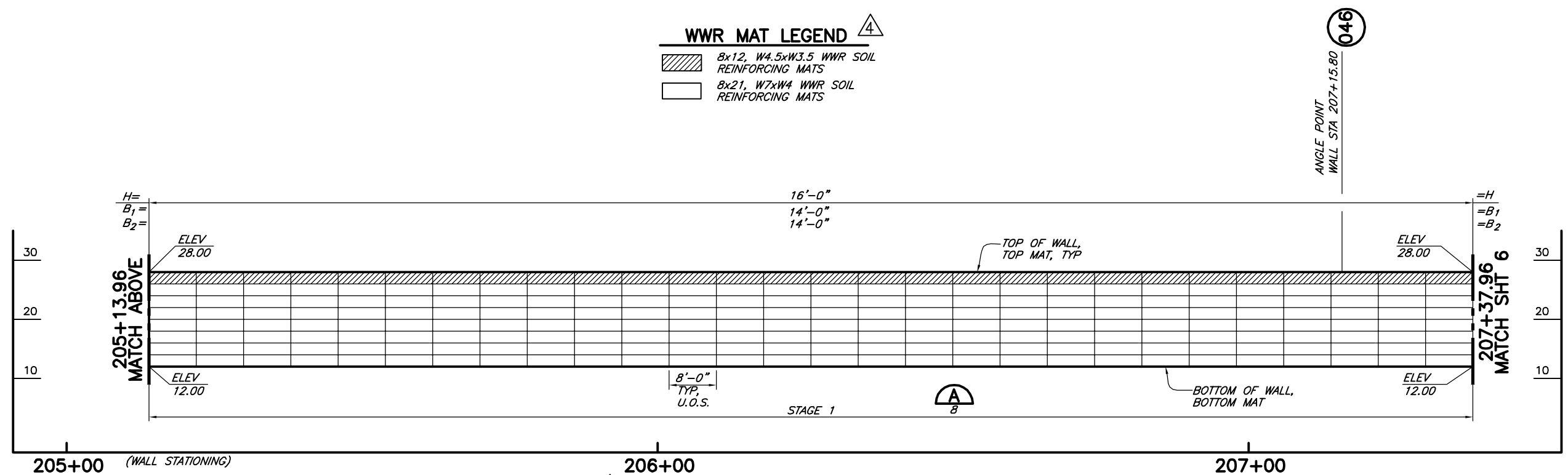
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SHEET 4 OF 11	DATE 10/22/10 PROJ. NO. 010002.120



**△ DEVELOPED WALL ELEVATION- EAST (STAGE 1)**  
1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED

- WWR MAT LEGEND △**
- 8x12, W4.5xW3.5 WWR SOIL REINFORCING MATS
  - 8x21, W7xW4 WWR SOIL REINFORCING MATS



**△ DEVELOPED WALL ELEVATION- EAST (CONT) (STAGE 1)**  
1"=10' HORIZ AND VERT  
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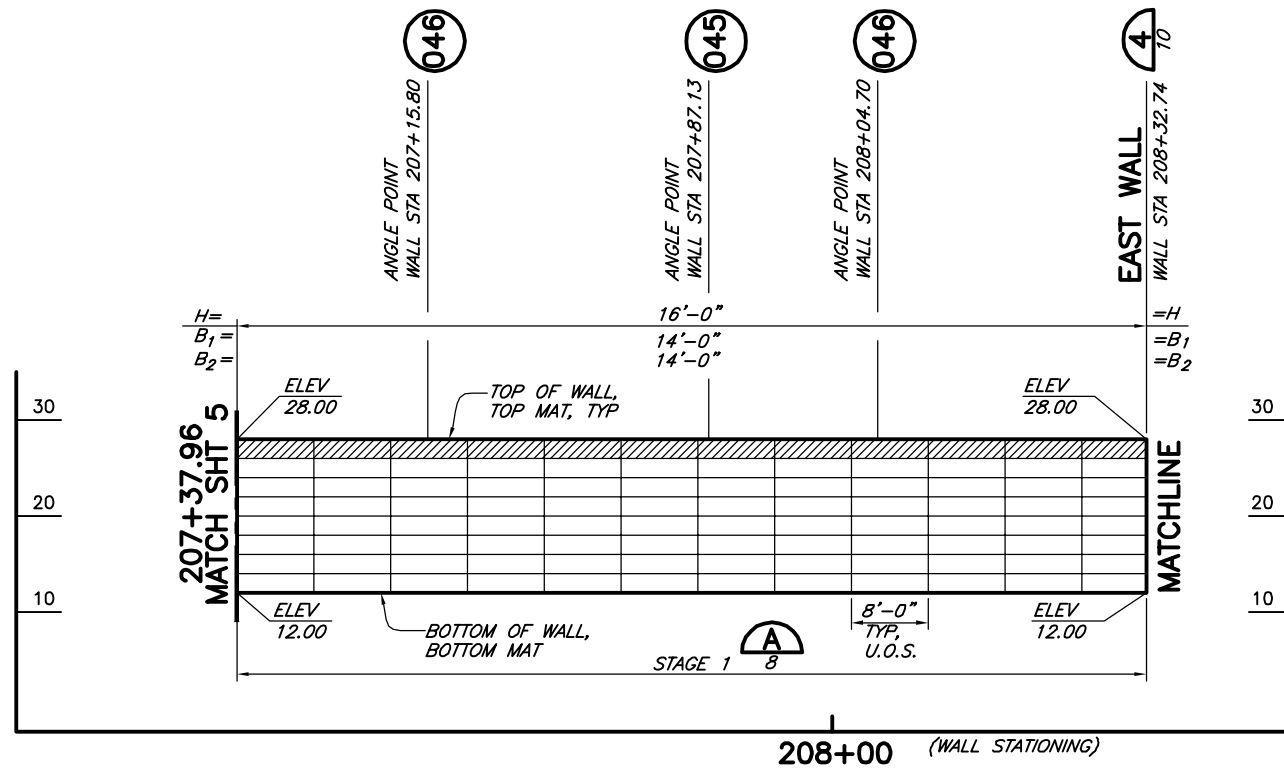
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3	12/03/10	Review comments	K/JN
4	11/05/10	Review comments	K/JN

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SOUTH TRANSFER STATION  
SEATTLE, WASHINGTON

**EAST WALL ELEVATION**

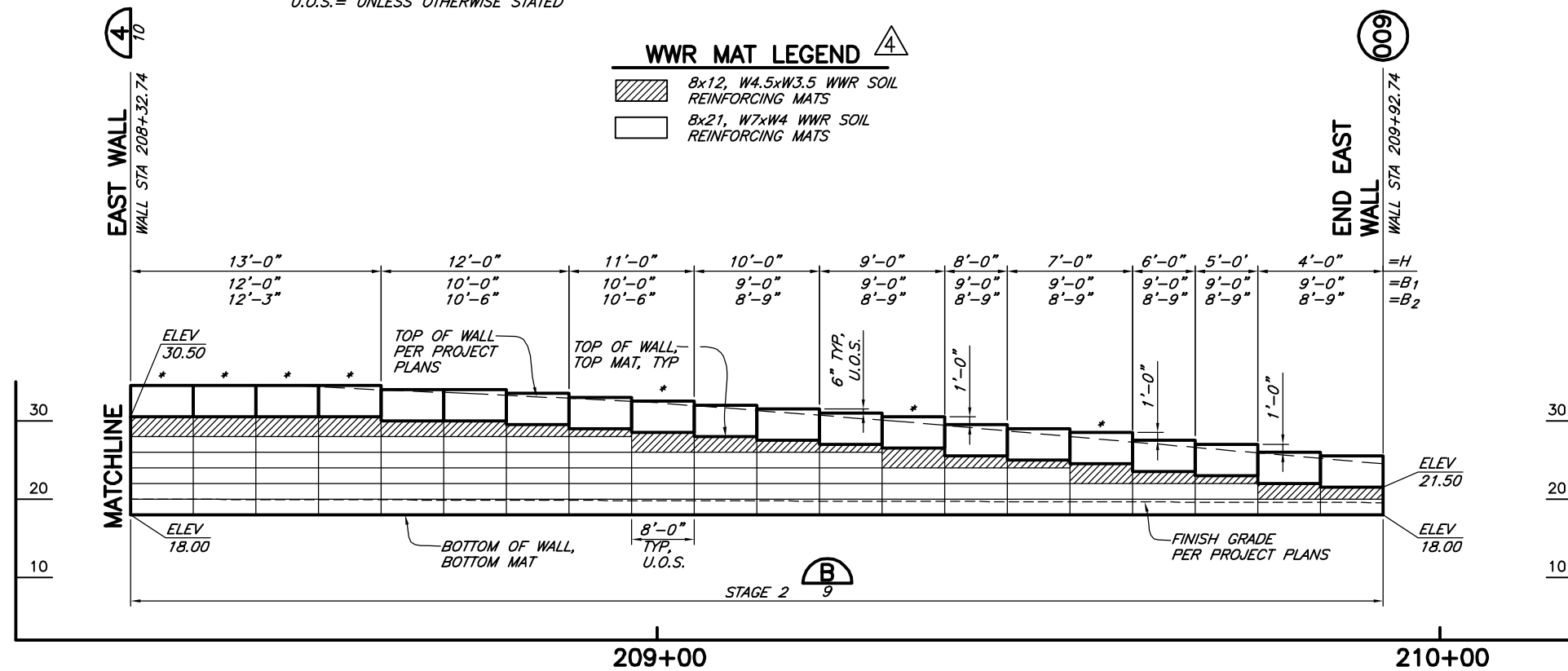
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**4 DEVELOPED WALL ELEVATION- EAST (CONT) (STAGE 1)**

1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED



**4 DEVELOPED WALL ELEVATION- EAST (CONT) (STAGE 2)**

1"=10' HORIZ AND VERT  
U.O.S.= UNLESS OTHERWISE STATED  
\* BACKING MATS GREATER THAN 2'-0" HIGH

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WELDED WIRE WALLS  
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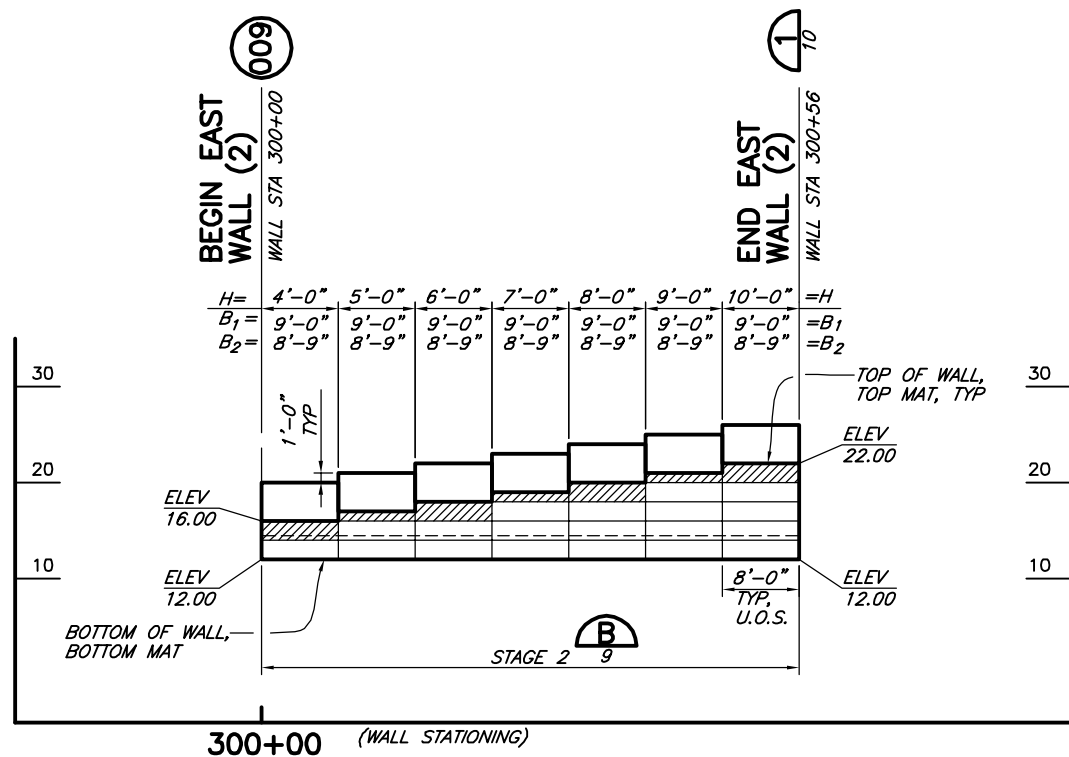


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3	12/03/10	Review comments	K/JN
4	11/05/10	Review comments	K/JN

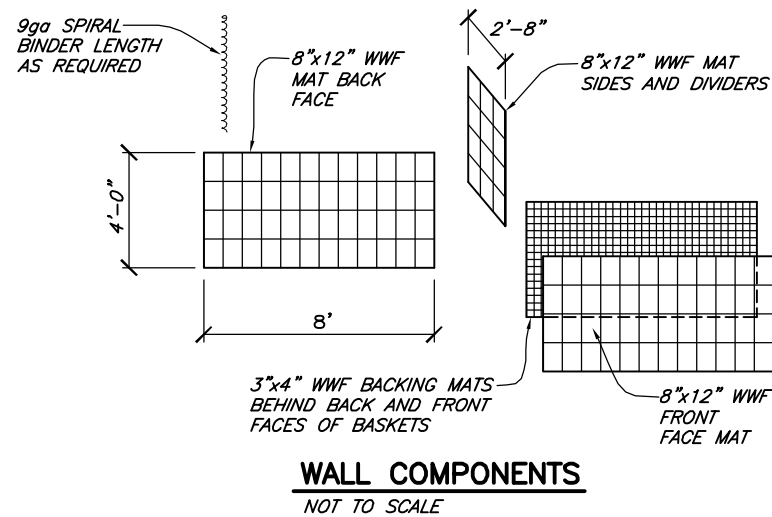
CITY OF SEATTLE PUBLIC UTILITIES  
SOUTH TRANSFER STATION  
SEATTLE, WASHINGTON  
**EAST WALL ELEVATION**

SHEET  
**6** OF 11  
DATE 10/22/10  
PROJ. NO. 010002.120

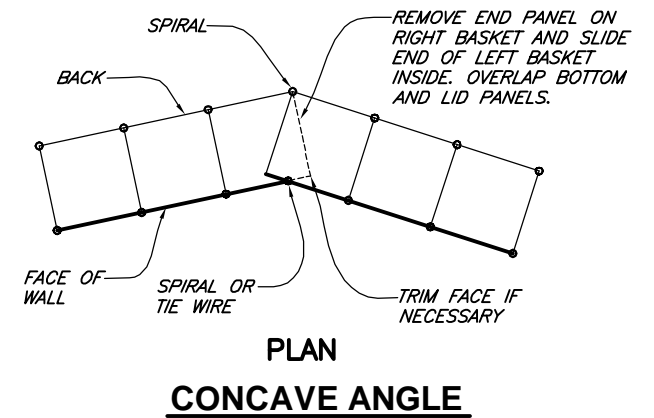
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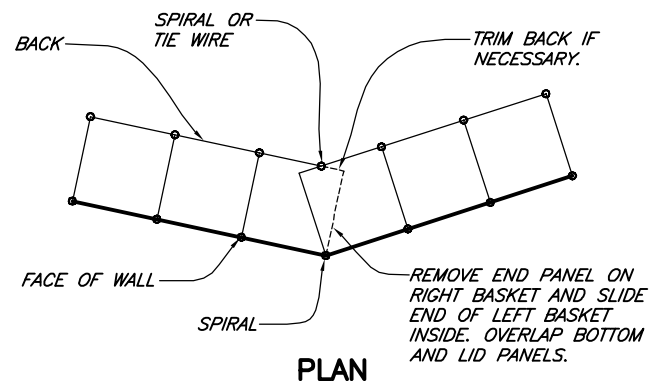
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 U.O.S.= UNLESS OTHERWISE STATED



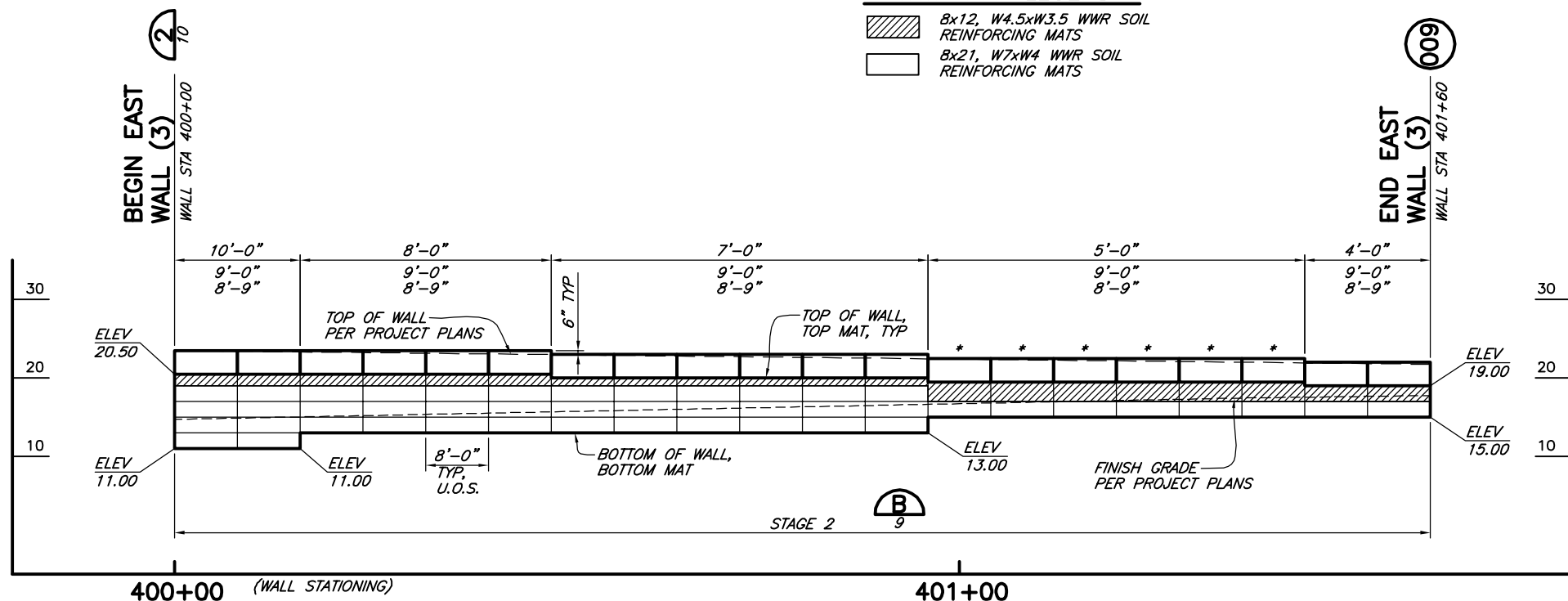
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 NOT TO SCALE



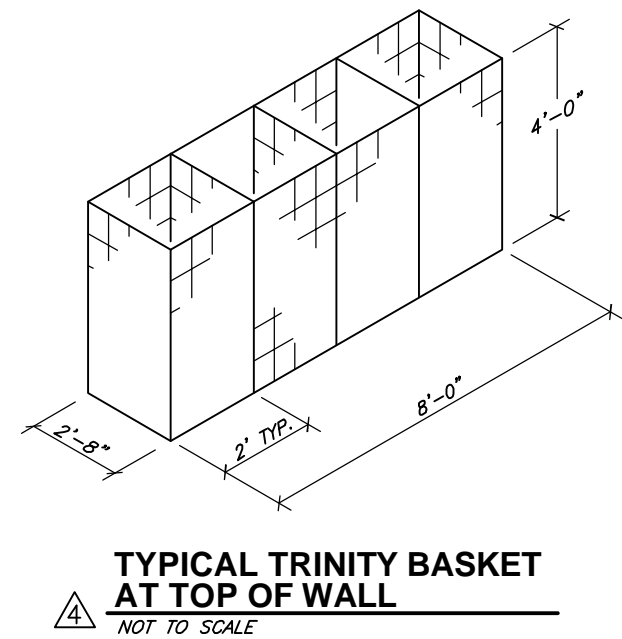
**PLAN CONCAVE ANGLE**



**PLAN CONVEX ANGLE**



**DEVELOPED WALL ELEVATION- EAST (3)**  
 1"=10' HORIZ AND VERT  
 U.O.S.= UNLESS OTHERWISE STATED  
 \* BACKING MATS GREATER THAN 2'-0" HIGH



**TYPICAL TRINITY BASKET AT TOP OF WALL**  
 NOT TO SCALE

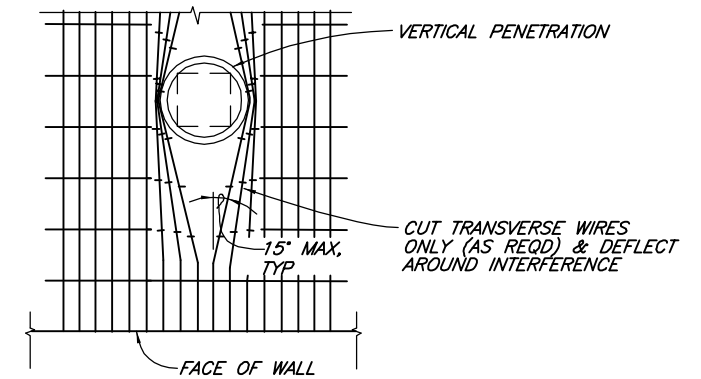
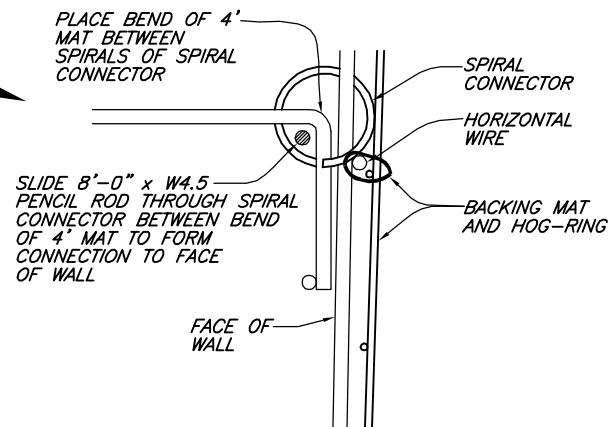
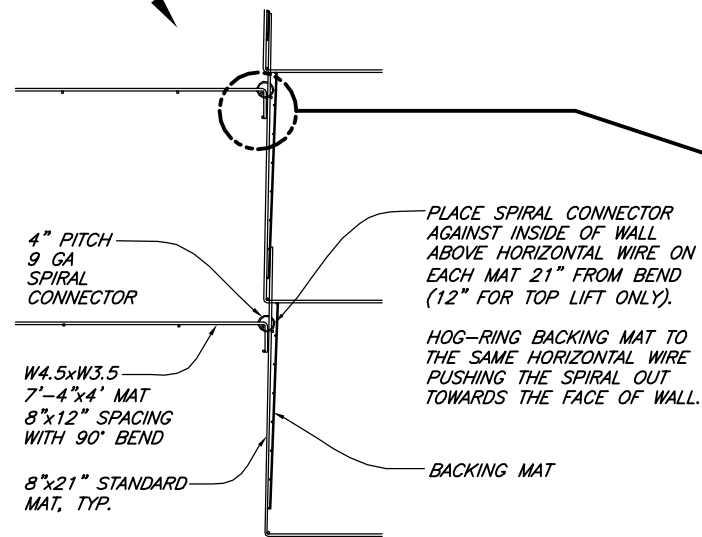
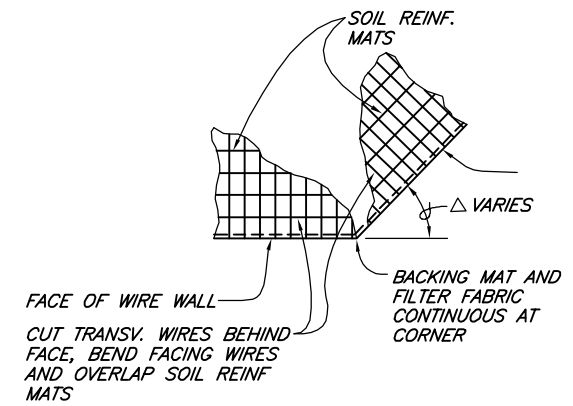
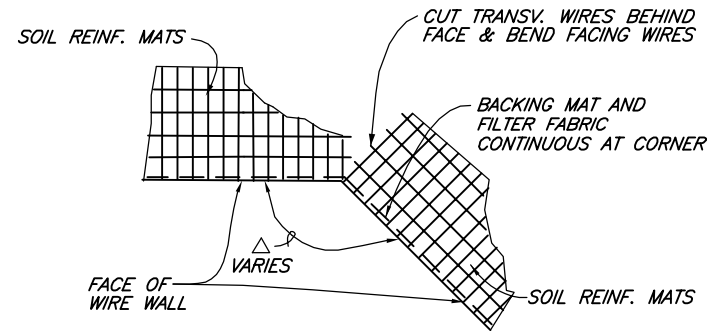
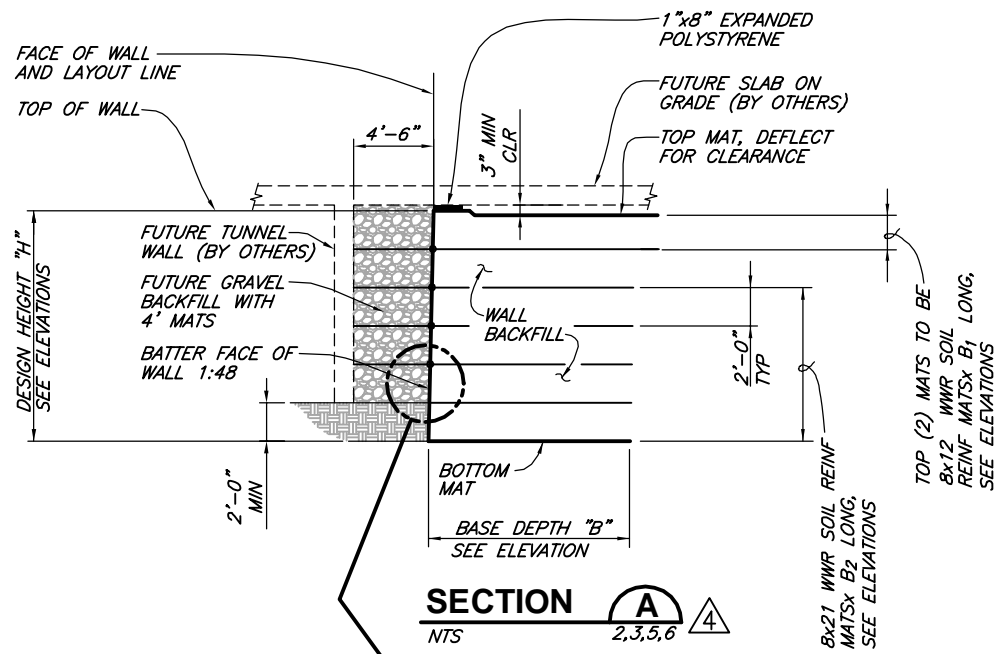
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Review comments	Review comments	Review comments	Review comments	Review comments	REVISION
12/21/10	12/09/10	12/03/10	11/05/10		NO.
DATE	DATE	DATE	DATE	DATE	DATE
DSGN	DR	CHK	APPD		
K/JN	NMD	K/JN			
CITY OF SEATTLE PUBLIC UTILITIES	SOUTH TRANSFER STATION		SEATTLE, WASHINGTON		
<b>EAST WALL ELEVATIONS &amp; TRINITY BASKET DETAILS</b>					
SHEET 7 OF 11					
DATE 10/22/10					
PROJ. NO. 010002.120					

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 (HRW 101001 AW)



EXPIRES: 2/09/2012

WELDED WIRE WALLS  
**HILFIKER RETAINING WALLS**



1902  
 1902  
 1902

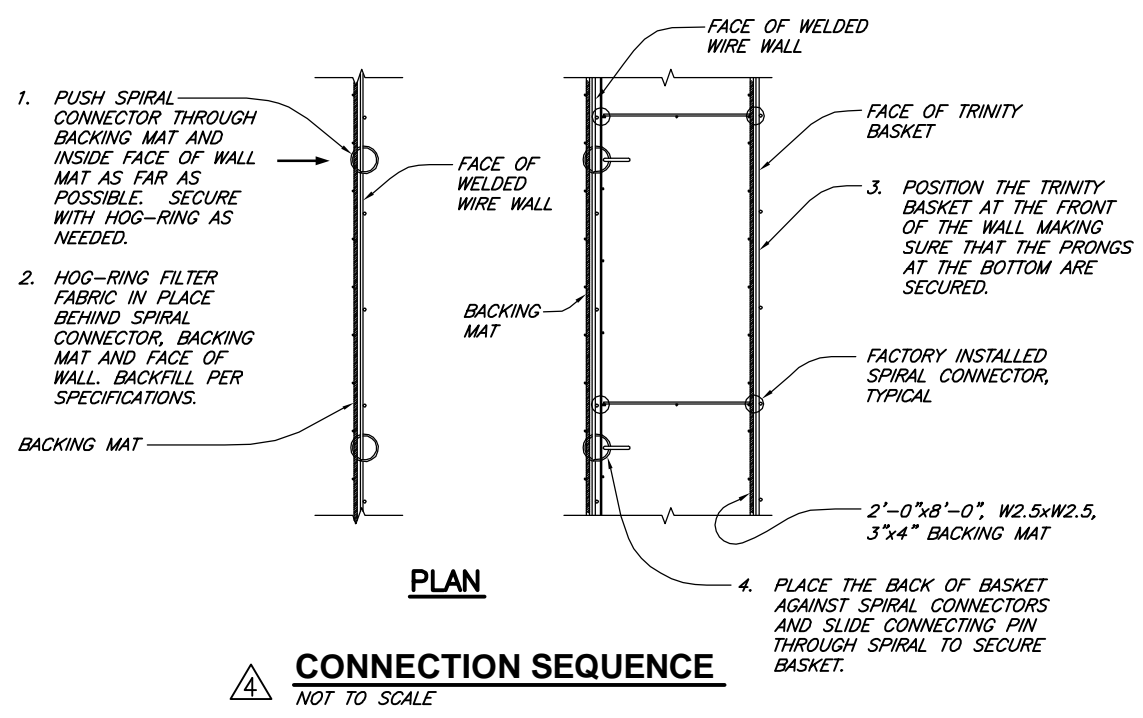
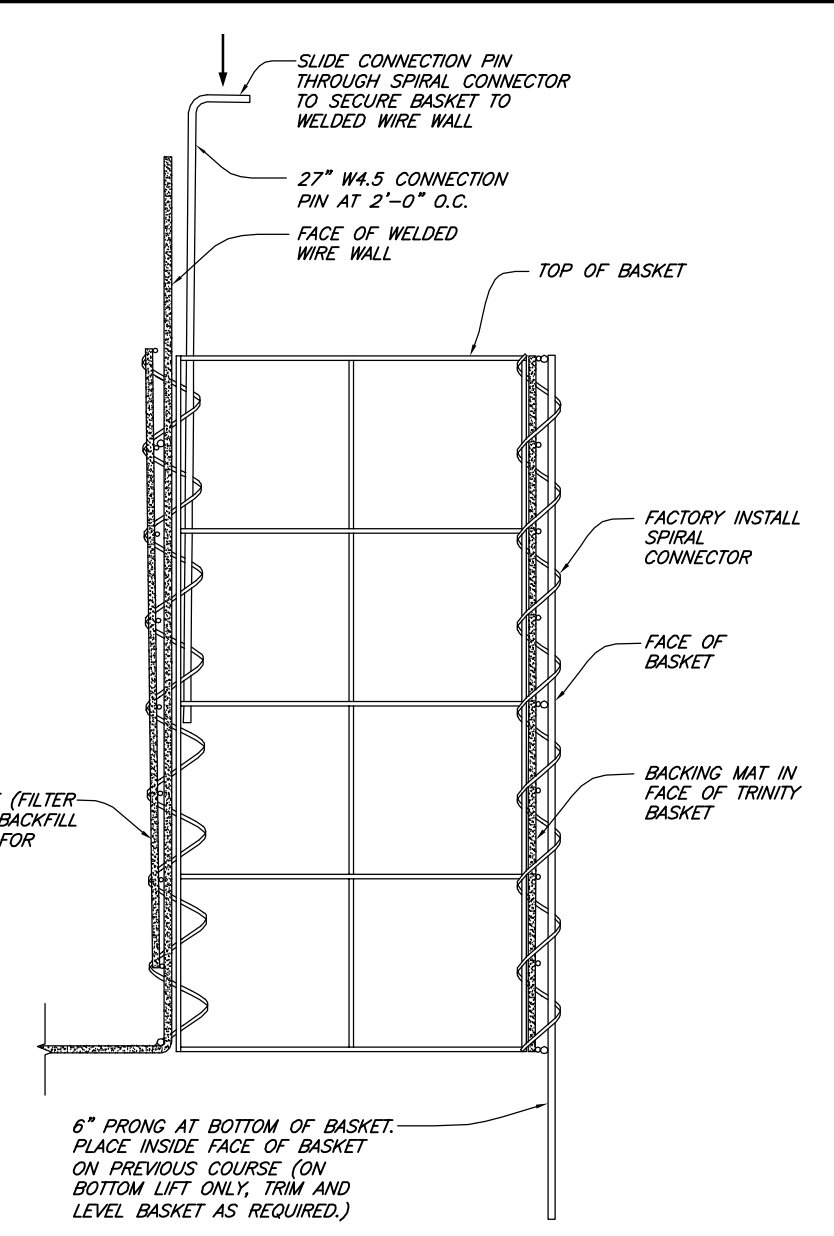
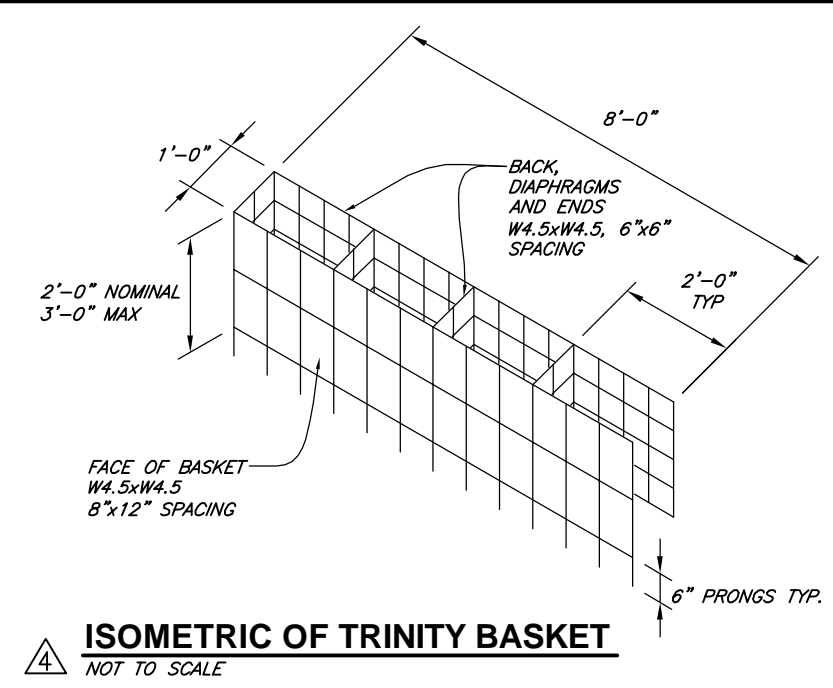
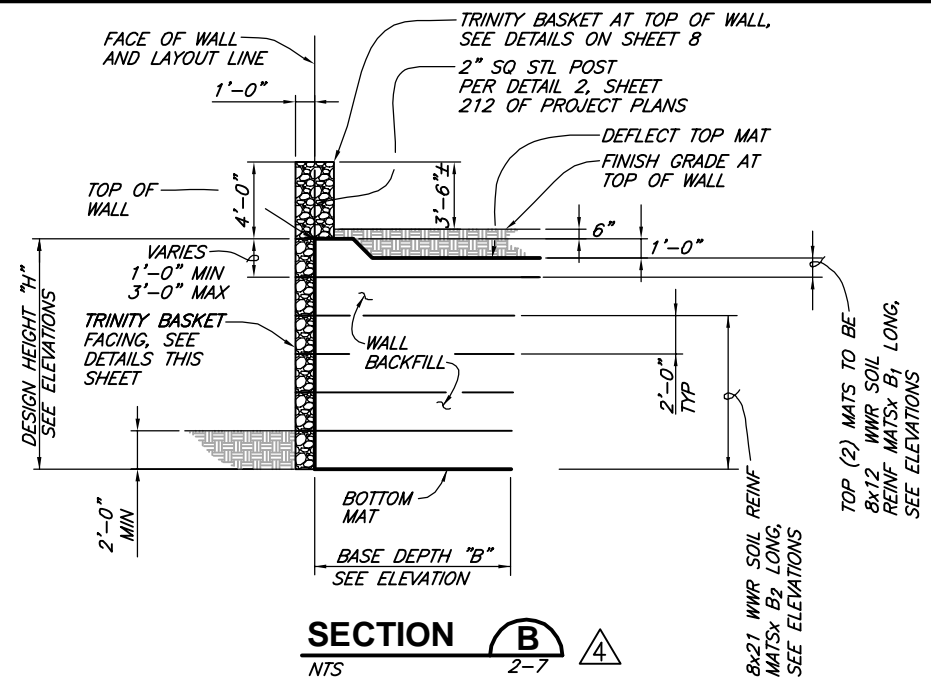
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K/JN K/JN K/JN K/JN BY	Review comments Review comments Review comments Review comments NO.
DSGN DR CHK APVD	DATE 12/21/10 12/09/10 12/03/10 11/05/10
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<b>WALL SECTION AND DETAILS</b>	
SHEET <b>8</b> OF 11	DATE 10/22/10 PROJ. NO. 010002.120

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CAD: \\ZING\PROJECTS\2010\010002-HILFIKER\120-SPU-SOUTH-TRANSFER-STATION\DWGS\010002-120-SOUTH-TRANSFER-R3.DWG (HRW 101001 AW)



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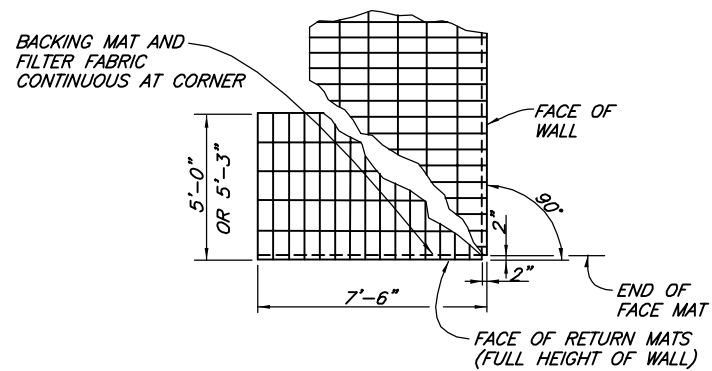
**WELDED WIRE WALLS**  
**HILFIKER RETAINING WALLS**

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



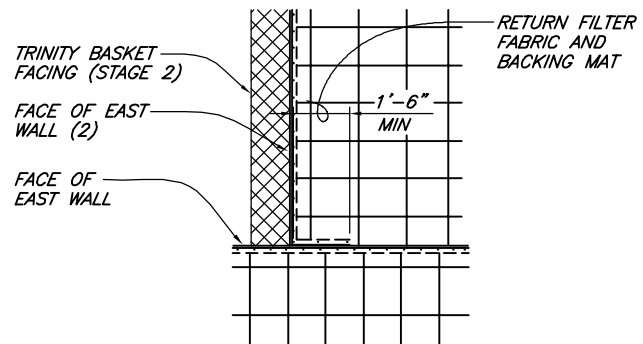
 CONSULTING ENGINEERS & GEOLOGISTS, INC. 812 W. Wabasha Eureka, CA 95501 (707)441-9855 FAX (707)441-8677				
NO.	REVISION	DATE	BY	Review comments Review comments Review comments Review comments
12/21/10				
12/09/10				
12/03/10				
11/05/10				
DSGN	K/JN			
DR	MMD			
CHK	K/JN			
APPD				
CITY OF SEATTLE PUBLIC UTILITIES SOUTH TRANSFER STATION SEATTLE, WASHINGTON <b>WALL SECTION AND DETAILS</b>				
SHEET <b>9</b> OF 11 DATE 10/22/10 PROJ. NO. 010002.120				

CAD: \ZING\PROJECTS\2010\010002-HILFIKER\120-SPU-SOUTH-TRANSFER-STATION\DWGS\010002-120-SOUTH-TRANSFER-R3.DWG  
(HRW 101001 AW)

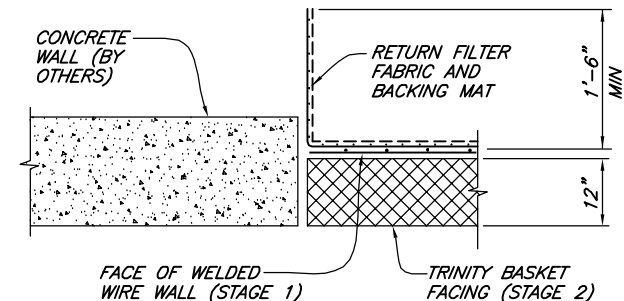


NOTE: RETURN MATS TO MATCH MATS AT FACE OF WALL

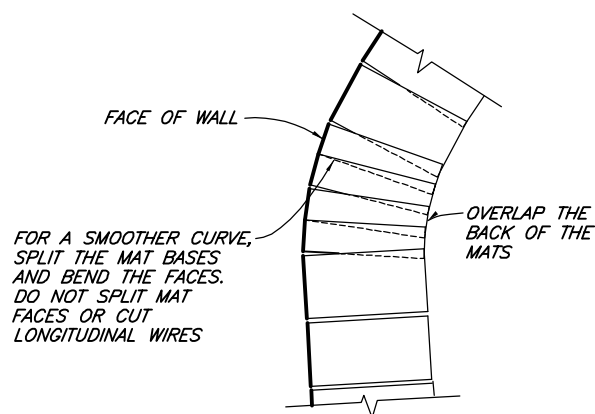
**END OF WALL RETURN** 009  
NO SCALE



**DETAIL 1**  
NO SCALE 1,7

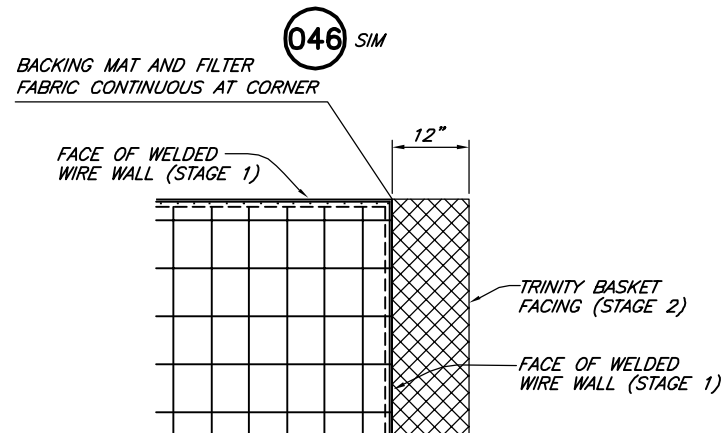


**DETAIL 2**  
NO SCALE 1,4,7

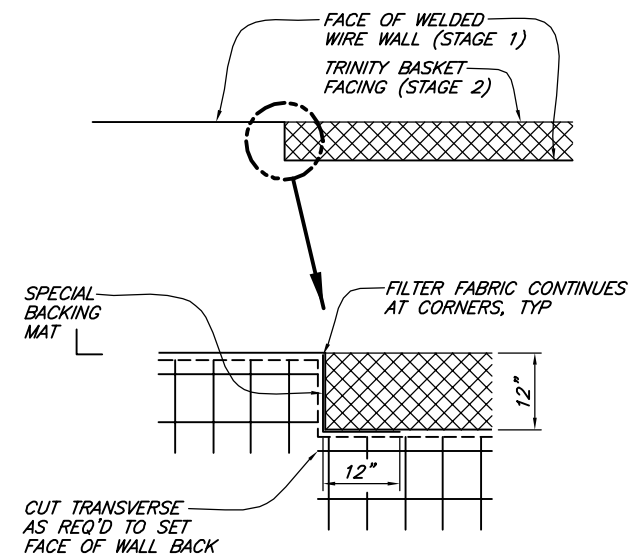


**PLAN AT CONVEX CONDITION MAT INSTALLATION ON CURVES**

NO SCALE



**DETAIL 3**  
NO SCALE 1-3



**DETAIL 4**  
NO SCALE 1,4,5,6

VERIFY SCALES  
BAR IS ONE INCH ON ORIGINAL DRAWING  
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

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DESIGN				DATE				REVISION					
DR	CHK	APP'D	NO.										
DR	CHK	APP'D	NO.	12/21/10	Review comments	K/JN	BY						
				12/08/10	Review comments	K/JN							
				12/03/10	Review comments	K/JN							
				11/05/10	Review comments	K/JN							

CITY OF SEATTLE PUBLIC UTILITIES  
SOUTH TRANSFER STATION  
SEATTLE, WASHINGTON

**DETAILS**

**WELDED WIRE WALLS  
HILFIKER RETAINING WALLS**



1902  
1902  
EST. 1902

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WEBSITE [www.hilfiker.com](http://www.hilfiker.com) E-MAIL [info@hilfiker.com](mailto:info@hilfiker.com)

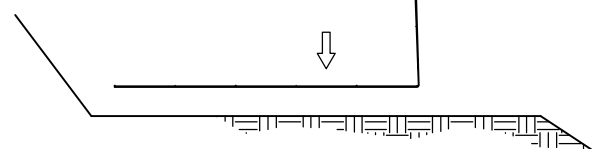
SHEET 10 OF 11  
DATE 10/22/10  
PROJ. NO. 010002.120

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CAD: \\ZING\PROJECTS\2010\010002-HILFIKER\120-SPU-SOUTH-TRANSFER-STATION\DWGS\010002-120-SOUTH-TRANSFER-R3.DWG  
(HRW 101001 AW)

**STEP 1**

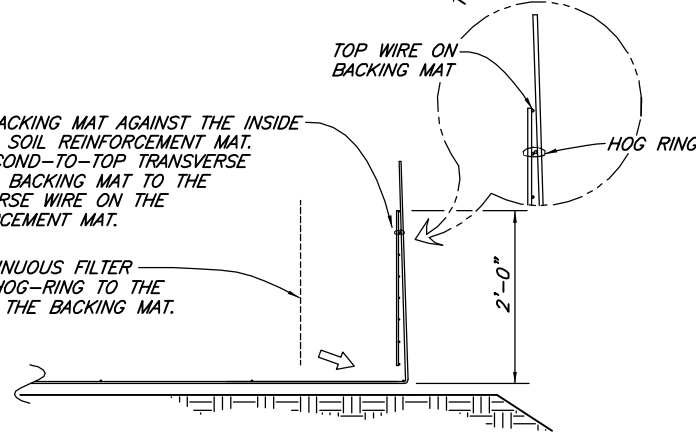
PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION.



**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.

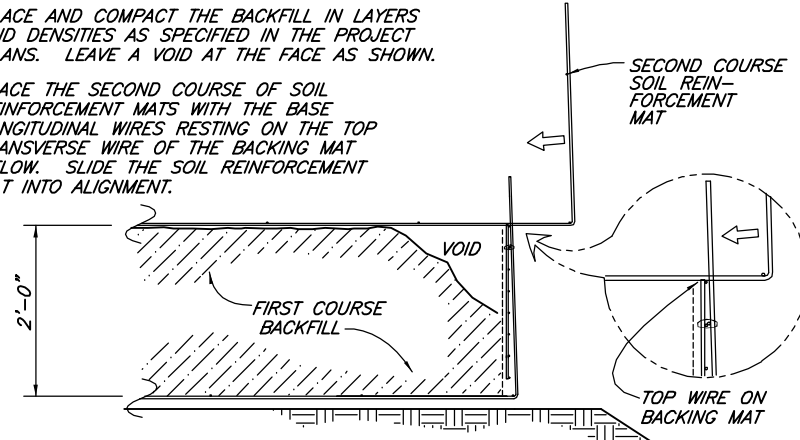
INSTALL CONTINUOUS FILTER FABRIC AND HOG-RING TO THE TOP WIRE ON THE BACKING MAT.



**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.

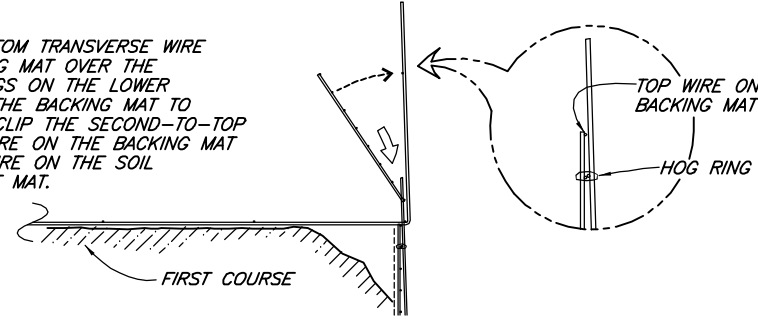


**CONSTRUCTION SEQUENCE**

NO SCALE

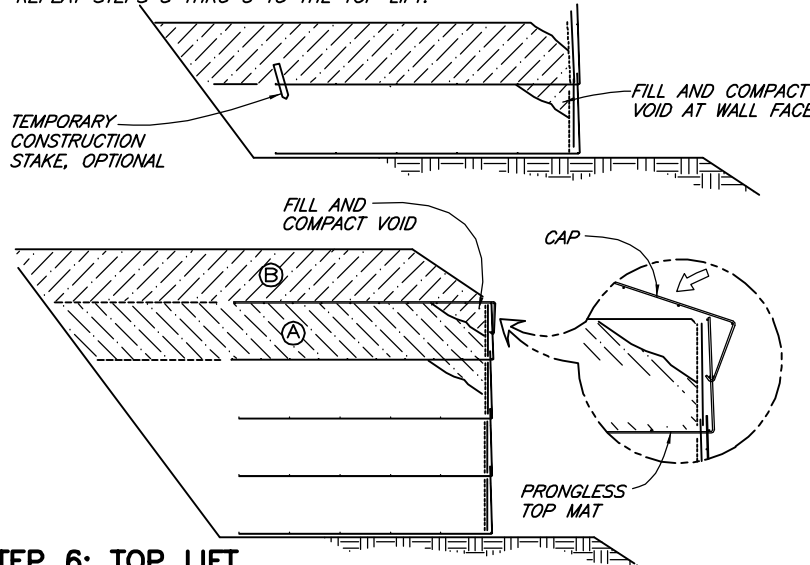
**STEP 4**

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.



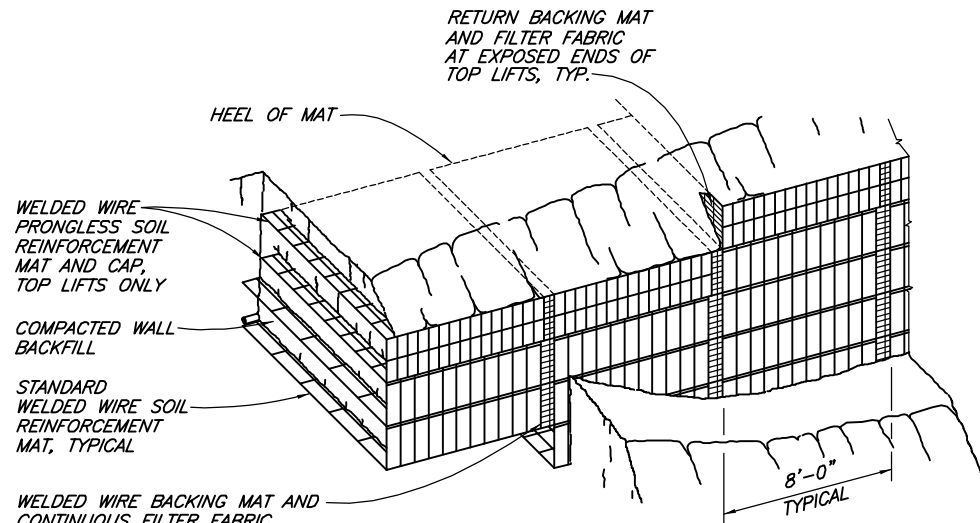
**STEP 5**

INSTALL THE FILTER FABRIC. PLACE AND COMPACT THE BACKFILL TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 3 THRU 5 TO THE TOP LIFT.



**STEP 6: TOP LIFT**

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC. 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 2'-0" MINIMUM COVER OVER THE CAP.



**PICTORIAL ELEVATION**

NO SCALE

WELDED WIRE BACKING MAT AND CONTINUOUS FILTER FABRIC BEHIND MAT FACES

STANDARD WELDED WIRE SOIL REINFORCEMENT MAT, TYPICAL

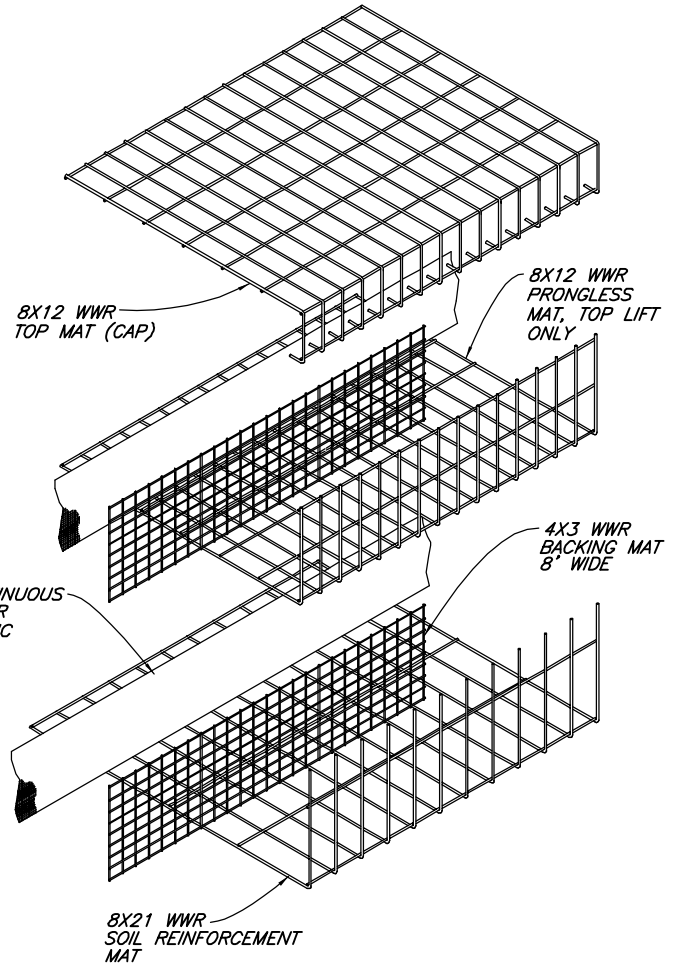
COMPACTED WALL BACKFILL

WELDED WIRE PRONGLESS SOIL REINFORCEMENT MAT AND CAP, TOP LIFTS ONLY

RETURN BACKING MAT AND FILTER FABRIC AT EXPOSED ENDS OF TOP LIFTS, TYP.

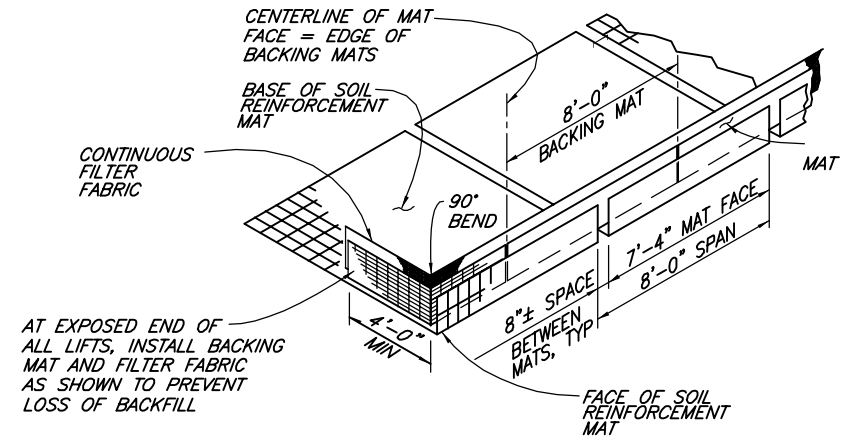
HEEL OF MAT

8'-0" TYPICAL



**WALL COMPONENTS**

NO SCALE



**ASSEMBLED WALL COMPONENTS**

NO SCALE



EXPIRES: 2/09/2012

**TEMPORARY WELDED WIRE WALLS  
HILFIKER RETAINING WALLS**



1902  
1902



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		K/JN	K/JN	K/JN	BY
		Review comments	Review comments	Review comments	REVISION
		12/21/10	12/09/10	12/03/10	DATE
		NO.	NO.	NO.	NO.
DSGN	K/JN	DR	NMD	CHK	K/JN
CITY OF SEATTLE PUBLIC UTILITIES		SOUTH TRANSFER STATION		SEATTLE, WASHINGTON	
WALL COMPONENTS & CONSTRUCTION SEQUENCE		SHEET 11 OF 11		DATE 10/22/10	
PROJECT NO. 010002.120		PROJ. NO.		010002.120	