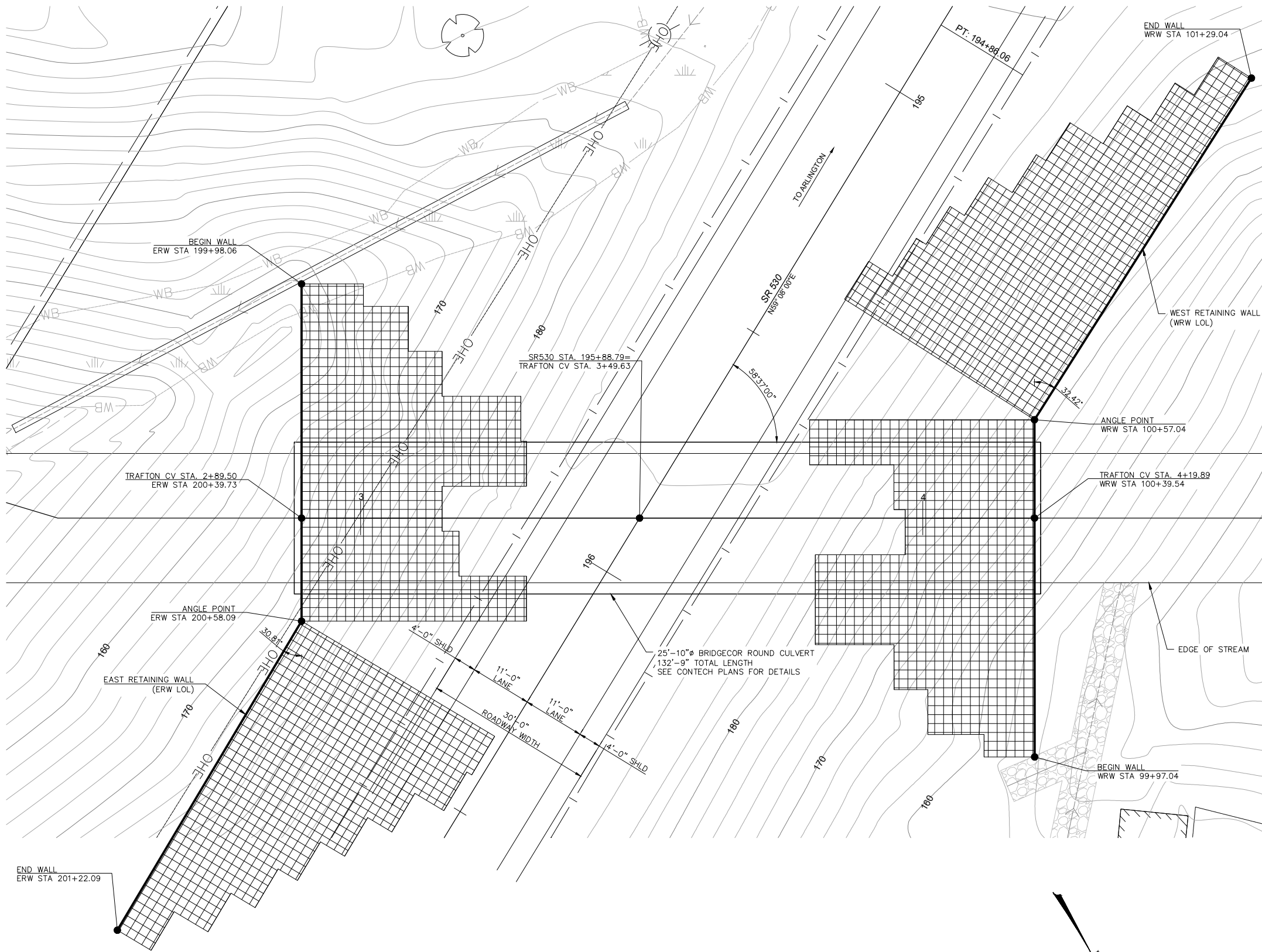


DESIGN NOTES:

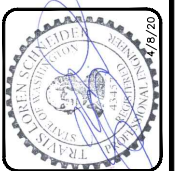
- DESIGN IS BASED ON PLANS BY PND ENGINEERS, INC., SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE, DATED FEBRUARY 25, 2020. IT IS ASSUMED THAT BACKFILL WITHIN THE REINFORCED SOIL MASS, METHODS OF CONSTRUCTION AND QUALITY OF MATERIALS CONFORM TO THE REQUIREMENTS OF THE PROJECT PLANS AND HILFIKER RETAINING WALLS.
- ASSUMED SOIL CHARACTERISTICS (TO BE VERIFIED BY PROJECT ENGINEER):
 WALL BACKFILL:
 UNIT WEIGHT: 125 PCF
 INTERNAL FRICTION ANGLE: 32°
 COHESION: 0 PSF
 RETAINED BACKFILL:
 UNIT WEIGHT: 125 PCF
 INTERNAL FRICTION ANGLE: 32°
 COHESION: 0 PSF
 FOUNDATION SOILS:
 UNIT WEIGHT: 130 PCF
 INTERNAL FRICTION ANGLE: 35°
 COHESION: 0 PSF
- ASSUMED DESIGN LOADS (TO BE VERIFIED BY PROJECT ENGINEER):
 SEISMIC: PEAK GROUND ACCELERATION COEFFICIENT, PGA: 0.310 g
 LIVE LOADS: SURCHARGE LOAD=250 PSF
- WORST CASE FACTORED BEARING PRESSURE (TO BE APPROVED BY PROJECT ENGINEER):
 STATIC 13,900 PSF
 SEISMIC 24,598 PSF
 SERVICE 9,814 PSF
- 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 CONDITIONS.
- 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.
- 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 HILFIKER COMPANY SHALL BE USED TO CONTAIN THE BACKFILL AT THE FACE OF THE WALL.
- DESIGN PROCEDURE: MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES, FHWA REPORT NO. FHWA-NHI-10-024. 2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.
- ALL INFORMATION HEREON IS DERIVED FROM THE PROJECT PLANS, AND IS SUBJECT TO GEOMETRIC AND GEOTECHNICAL CONFIRMATION. THE APPLICABLE HILFIKER CONSTRUCTION GUIDE AND SPECIFICATIONS ARE AN INTEGRAL PART OF THIS SUBMITTAL.
 PROJECT PLANS: SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE, DATED FEBRUARY 25, 2020, BY PND ENGINEERS, INC.



PLAN VIEW
SCALE: 1"=20'

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

PACIFIC AFFILIATES
 CONSULTING ENGINEERS
 990 W. WATERFRONT DRIVE, EUREKA, CA 95501
 TEL (707) 445-3001 FAX (707) 445-3003



DESIGN NOTES AND WALL PLAN
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MECHANICALLY STABILIZED EARTH WALL
 FOR:
 HILFIKER RETAINING WALLS
 SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE
 ARLINGTON, WA
 PROJECT NO. HRW 191029BW

Date: JANUARY 20, 2020
 Scale: AS NOTED
 Drawn by: NM

SHEET NUMBER
S-1

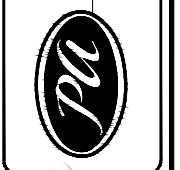
JOB NUMBER
 19-2597

WALL NOTES:

- ALL WIRE TO BE HOT DIPPED GALVANIZED (2.0 OZ/SF, ASTM A-123).
- DESIGN SERVICE LIFE IS 75 YEARS.
- ALL MATS SHOWN ARE STANDARD WIDTH (8 FT) OR HALF WIDTH (4 FT), WHICH ARE FIELD CUT OUT OF A STANDARD MAT.
- BOTTOM OF WALL CAN BE STEPPED UP PROVIDED TWO FOOT EMBEDMENT OF TOE IS MAINTAINED AND FOUNDATION STEP IS APPROVED BY GEOTECHNICAL ENGINEER OF RECORD.
- TOP OF WALL CAN BE STEPPED DOWN PROVIDED A MINIMUM SLOPE OF 1.5H:1V IS MAINTAINED TO DESIGN FINISH GRADE.
- WHERE TOP OF STANDARD MAT IS EXPOSED AND WILL BE CAPPED, CUT PRONGS OFF PER "RETURN MATS AND TOP OF WALL DETAIL", HILFIKER STANDARD DRAWINGS, SHEET S-7.

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

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WEST WALL ELEVATION

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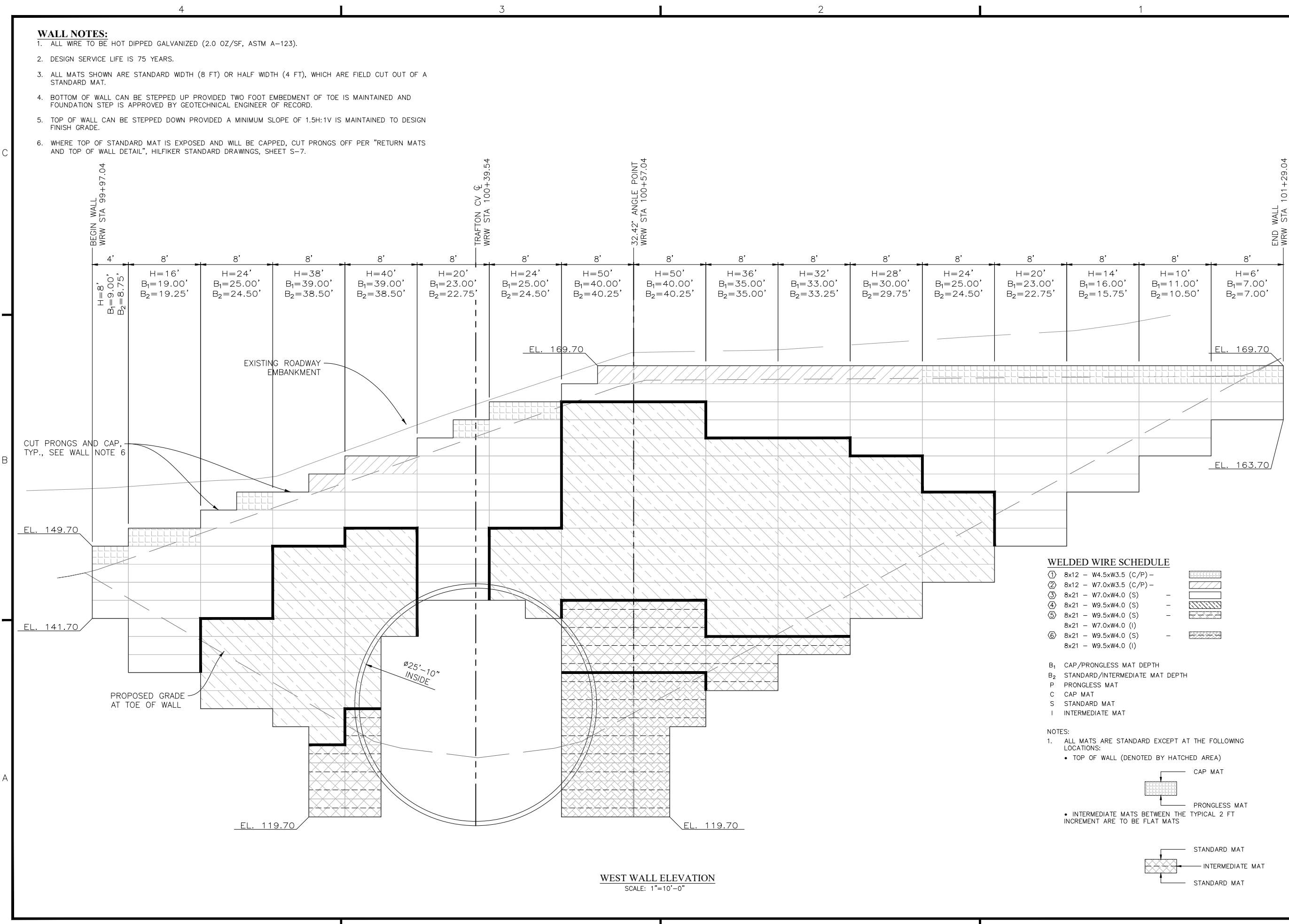
MECHANICALLY STABILIZED EARTH WALL

FOR:
HILFIKER RETAINING WALLS
SR530 TRAFLETON CREEK & SCHOOLYARD CREEK FISH PASSAGE
ARLINGTON, WA
PROJECT NO. HRW 191029BW

Date:
JANUARY 20, 2020
Scale:
AS NOTED NM

SHEET NUMBER
S-2

JOB NUMBER
19-2597

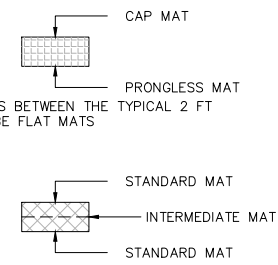


WELDED WIRE SCHEDULE

- ① 8x12 - W4.5xW3.5 (C/P) - [Symbol]
- ② 8x12 - W7.0xW3.5 (C/P) - [Symbol]
- ③ 8x21 - W7.0xW4.0 (S) - [Symbol]
- ④ 8x21 - W9.5xW4.0 (S) - [Symbol]
- ⑤ 8x21 - W9.5xW4.0 (S) - [Symbol]
- ⑥ 8x21 - W7.0xW4.0 (I) - [Symbol]
- 8x21 - W9.5xW4.0 (S) - [Symbol]
- 8x21 - W9.5xW4.0 (I) - [Symbol]

- B1 CAP/PRONGLESS MAT DEPTH
- B2 STANDARD/INTERMEDIATE MAT DEPTH
- P PRONGLESS MAT
- C CAP MAT
- S STANDARD MAT
- I INTERMEDIATE MAT

- NOTES:
- ALL MATS ARE STANDARD EXCEPT AT THE FOLLOWING LOCATIONS:
 - TOP OF WALL (DENOTED BY HATCHED AREA)



WEST WALL ELEVATION
SCALE: 1"=10'-0"

WALL NOTES:

1. ALL WIRE TO BE HOT DIPPED GALVANIZED (2.0 OZ/SF, ASTM A-123).
2. DESIGN SERVICE LIFE IS 75 YEARS.
3. ALL MATS SHOWN ARE STANDARD WIDTH (8 FT) OR HALF WIDTH (4 FT), WHICH ARE FIELD CUT OUT OF A STANDARD MAT.
4. BOTTOM OF WALL CAN BE STEPPED UP PROVIDED TWO FOOT EMBEDMENT OF TOE IS MAINTAINED AND FOUNDATION STEP IS APPROVED BY GEOTECHNICAL ENGINEER OF RECORD.
5. TOP OF WALL CAN BE STEPPED DOWN PROVIDED A MINIMUM SLOPE OF 1.5H:1V IS MAINTAINED TO DESIGN FINISH GRADE.
6. WHERE TOP OF STANDARD MAT IS EXPOSED AND WILL BE CAPPED, CUT PRONGS OFF PER "RETURN MATS AND TOP OF WALL DETAIL", HILFIKER STANDARD DRAWINGS, SHEET S-7.

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

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EAST WALL ELEVATION

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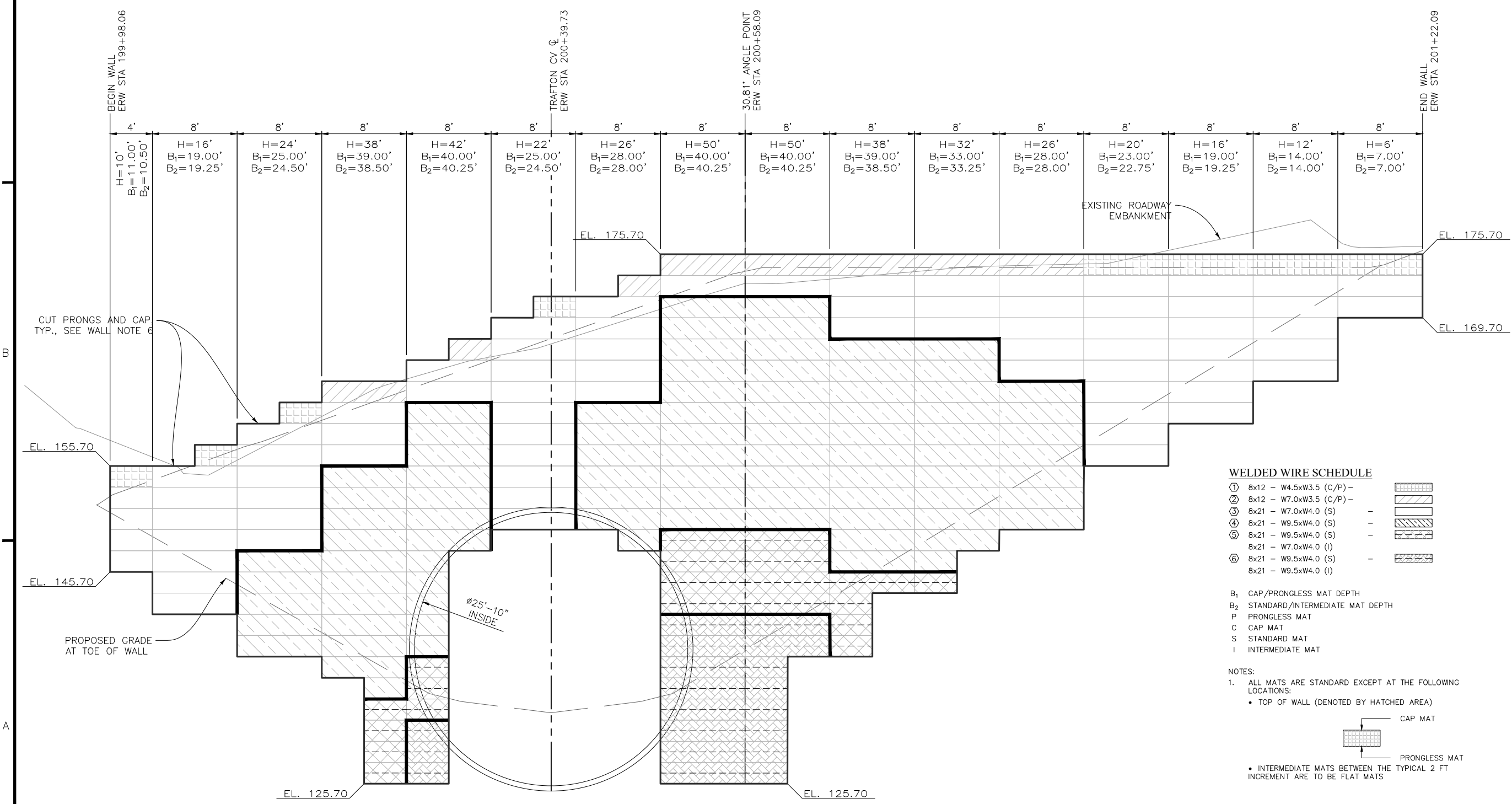
MECHANICALLY STABILIZED EARTH WALL

FOR:
HILFIKER RETAINING WALLS
SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE
ARLINGTON, WA
PROJECT NO. HRW 191029BW

Date:
JANUARY 20, 2020
Scale:
AS NOTED NM

SHEET NUMBER
S-3

JOB NUMBER
19-2597

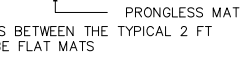
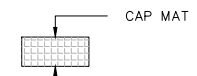


WELDED WIRE SCHEDULE

- ① 8x12 - W4.5xW3.5 (C/P) - [Symbol]
- ② 8x12 - W7.0xW3.5 (C/P) - [Symbol]
- ③ 8x21 - W7.0xW4.0 (S) - [Symbol]
- ④ 8x21 - W9.5xW4.0 (S) - [Symbol]
- ⑤ 8x21 - W9.5xW4.0 (S) - [Symbol]
- ⑥ 8x21 - W7.0xW4.0 (I) - [Symbol]
- ⑦ 8x21 - W9.5xW4.0 (S) - [Symbol]
- ⑧ 8x21 - W9.5xW4.0 (I) - [Symbol]

- B₁ CAP/PRONGLESS MAT DEPTH
- B₂ STANDARD/INTERMEDIATE MAT DEPTH
- P PRONGLESS MAT
- C CAP MAT
- S STANDARD MAT
- I INTERMEDIATE MAT

- NOTES:
1. ALL MATS ARE STANDARD EXCEPT AT THE FOLLOWING LOCATIONS:
 - TOP OF WALL (DENOTED BY HATCHED AREA)

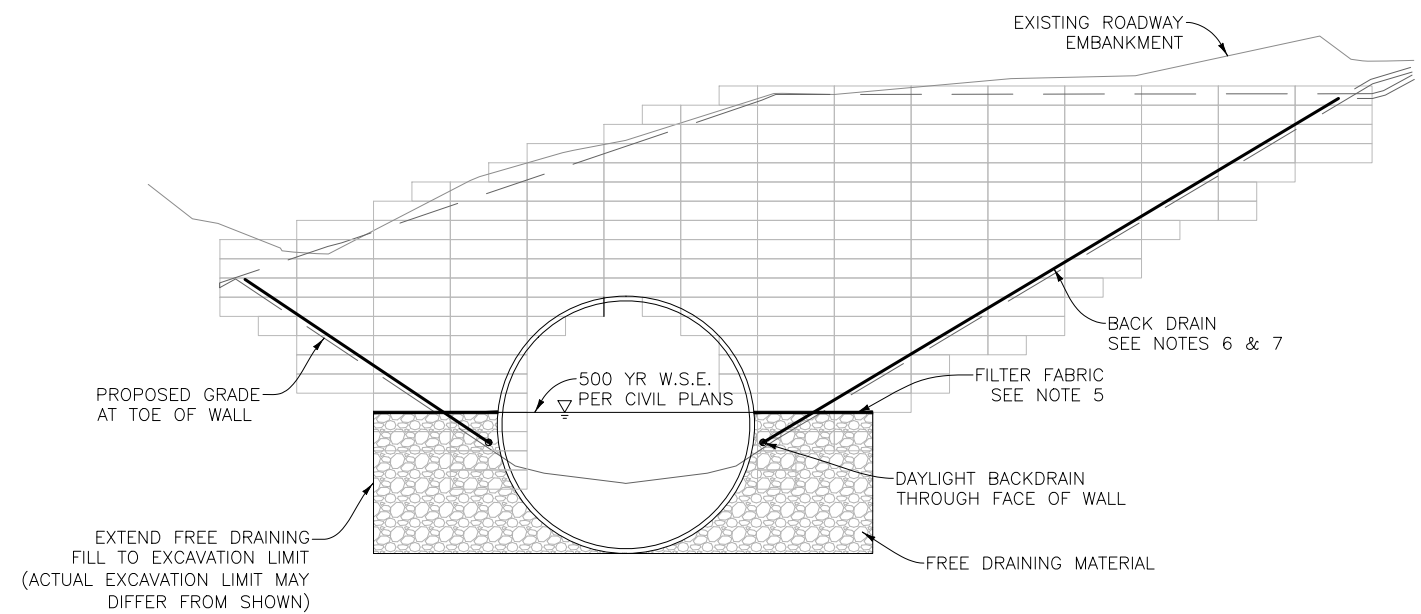


- INTERMEDIATE MATS BETWEEN THE TYPICAL 2 FT INCREMENT ARE TO BE FLAT MATS

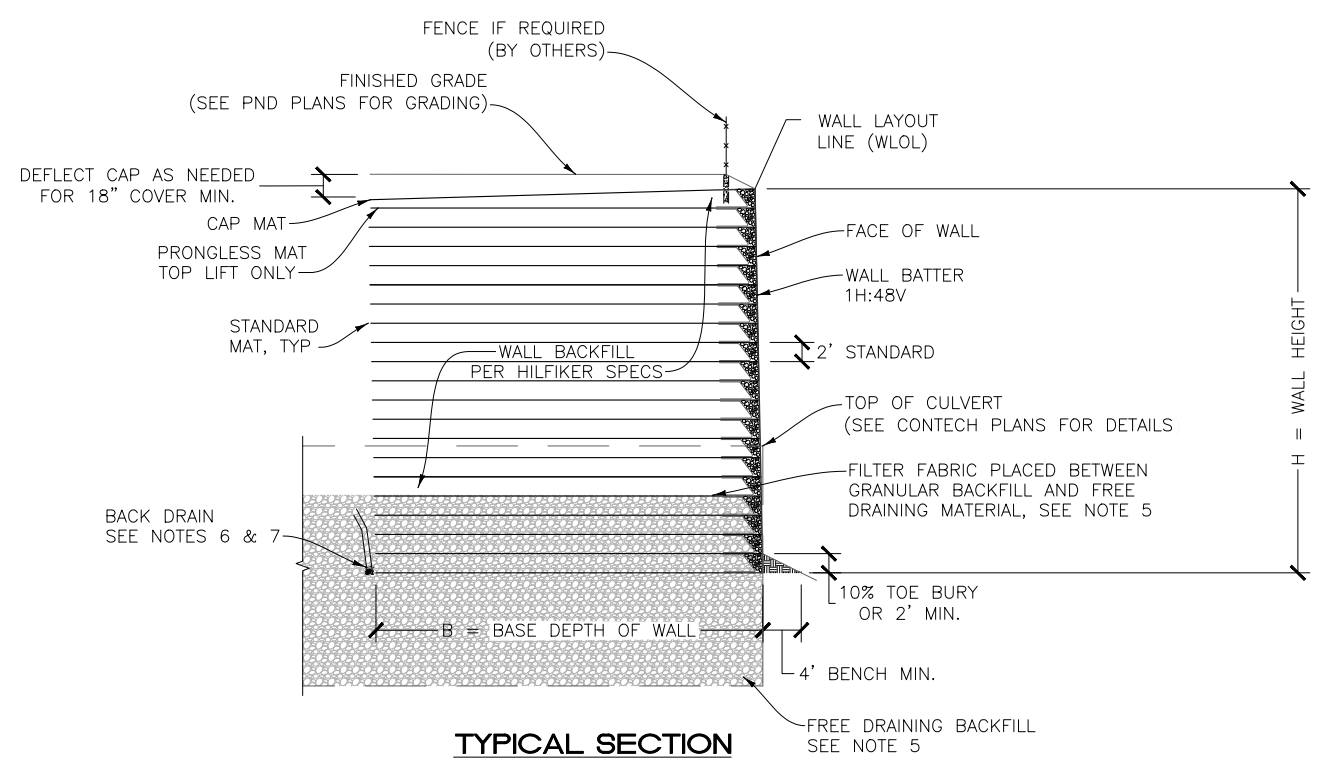


EAST WALL ELEVATION
SCALE: 1"=10'-0"

4 3 2 1



TYPICAL ELEVATION
SCALE: 1" = 20'



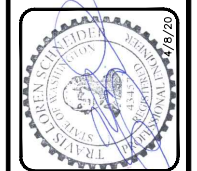
TYPICAL SECTION
SCALE: 1" = 40'

PROJECT-SPECIFIC NOTES:

1. REFERENCE DRAWINGS: BASED ON DRAWINGS FROM P.N.D. ENGINEERS, INC. SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE. DATED 2/25/20.
2. IT IS ASSUMED THAT ALL MATERIALS, BACKFILL AND CONSTRUCTION METHODS FOR HILFIKER M.S.E. WALLS WILL CONFORM TO HILFIKER'S SPECIFICATIONS.
3. 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.
4. 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/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE DRAINAGE, SAFETY AND FALL PROTECTION PROVISIONS FOR WORKERS IN COMPLIANCE WITH OSHA AND ANY OTHER APPLICABLE REQUIREMENTS.
5. FREE DRAINING MATERIAL SHALL BE PLACED FROM BOTTOM OF EXCAVATION TO THE HEIGHT OF THE 500 YEAR W.S.E. AS SHOWN ON THE CIVIL PLANS. FREE DRAINING MATERIAL SHALL CONSIST OF ANGULAR (CRUSHED) MATERIAL MEETING REQUIREMENTS OF SECTION 9-03.12(4) OF WASHINGTON 2020 STANDARD SPECIFICATIONS. FREE DRAINING MATERIAL WILL REQUIRE FILTER FABRIC (MIRIFI 140N OR EQUIVALENT) TO MINIMIZE POTENTIAL FOR MIGRATION OF FINES. FREE DRAINING FILL MATERIAL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH HILFIKER SPECIFICATIONS FOR WALL BACKFILL.
6. BACKDRAIN SYSTEM SHALL CONSIST OF A 6-INCH PERFORATED PVC PIPE SURROUNDED BY AT LEAST 1 CUBIC FOOT OF **FREE DRAINING MATERIAL** MEETING SECTION 9-03.12(4) OF WASHINGTON 2020 STANDARD SPECIFICATIONS, WRAPPED IN MIRAFI 140N FILTER FABRIC (OR EQUIVALENT).
7. BACKDRAIN GRADIENT SHALL NOT BE LESS THAN 1% WHEN POSSIBLE. PROVIDE DRAIN OUTLETS THROUGH FACE OF WALL AND EXTEND TO DAYLIGHT.

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

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TYPICAL WALL SECTION
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MECHANICALLY STABILIZED EARTH WALL
FOR:
HILFIKER RETAINING WALLS
SR530 TRAFTON CREEK & SCHOOLYARD CREEK FISH PASSAGE
ARLINGTON, WA
PROJECT NO. HRW 191029BW

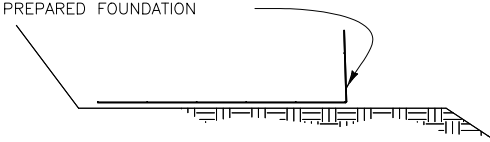
Date: JANUARY 20, 2020
Scale: AS NOTED
Drawn by: NM

SHEET NUMBER
S-4

JOB NUMBER
19-2597

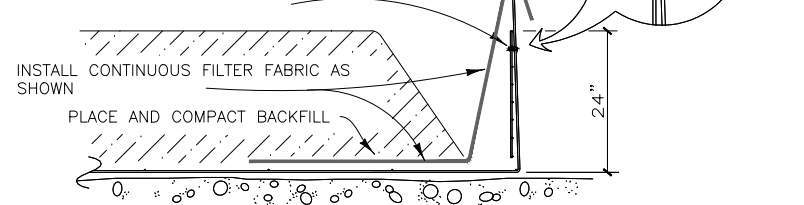
STEP 1

PLACE THE FIRST COURSE OF SOIL REINFORCEMENT MATS ON PREPARED FOUNDATION



STEP 2

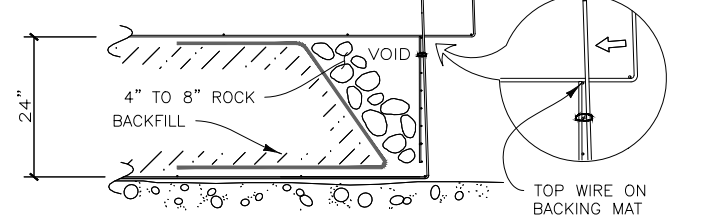
PLACE THE BACKING MAT AGAINST THE INSIDE FACE OF THE SOIL REINFORCEMENT MAT. CLIP THE SECOND-TO-TOP TRANSVERSE WIRE ON THE BACKING MAT TO THE TOP TRANSVERSE WIRE ON THE SOIL REINFORCEMENT MAT.



STEP 3

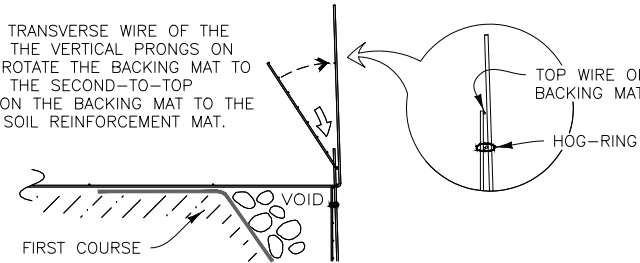
BRING THE FILTER FABRIC OVER THE FRONT AND TOP OF THE BACKFILL AS SHOWN. PLACE THE ROCK IN THE FACE OF THE WALL. LEAVE A VOID AS SHOWN.

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.



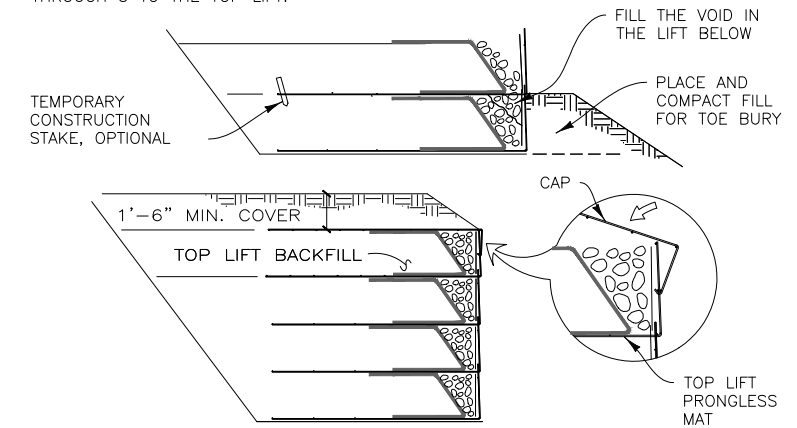
STEP 4

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

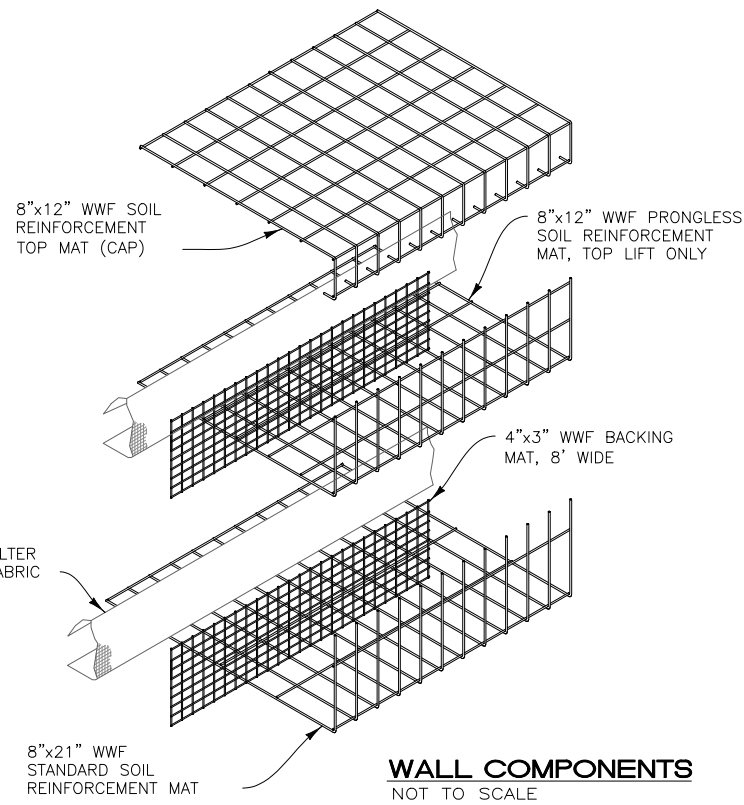
INSTALL THE FILTER FABRIC AS IN STEPS 2 AND 3. PLACE AND COMPACT THE BACKFILL AND ROCK TO THE BASE ELEVATION OF THE NEXT MAT. REPEAT STEPS 2 THROUGH 5 TO THE TOP LIFT.



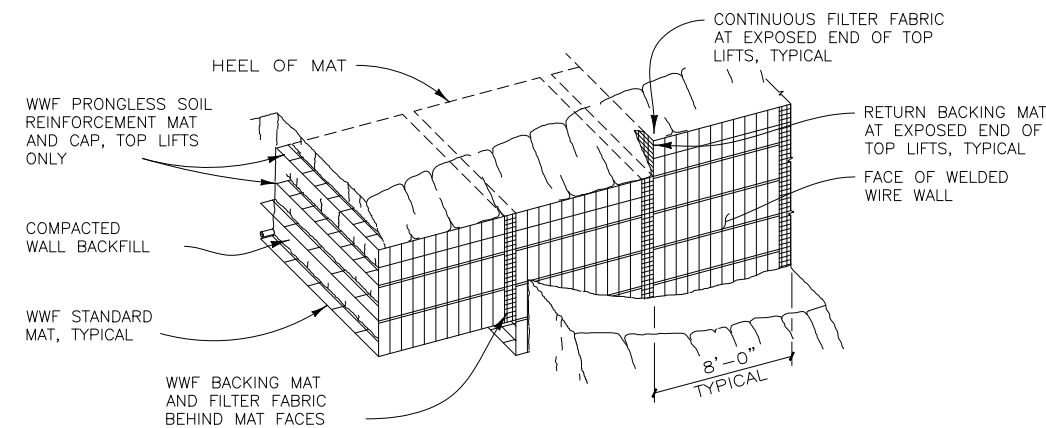
STEP 6: TOP LIFT

PLACE THE TOP LIFT PRONGLESS MAT, BACKING MAT AND FILTER FABRIC. PLACE AND COMPACT BACKFILL AND ROCK IN THE TOP LIFT. HOOK THE CAP OVER THE MIDDLE TRANSVERSE WIRE ON THE PRONGLESS MAT, AND ROTATE INTO PLACE. PLACE AND COMPACT COVER OVER TOP MAT TO 1'-6" MINIMUM DEPTH.

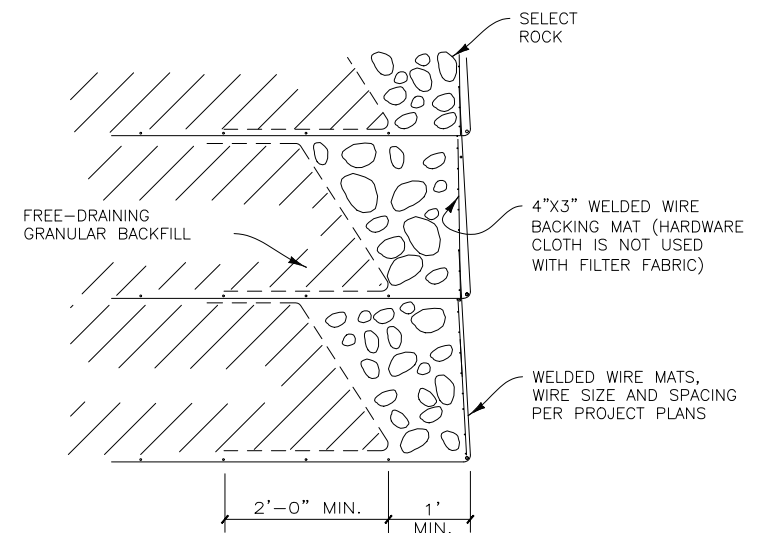
CONSTRUCTION SEQUENCE
NOT TO SCALE



WALL COMPONENTS
NOT TO SCALE



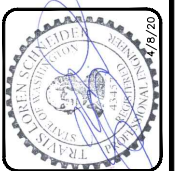
PICTORIAL ELEVATION
NOT TO SCALE



SECTION
ROCK FACING DETAIL
NOT TO SCALE

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

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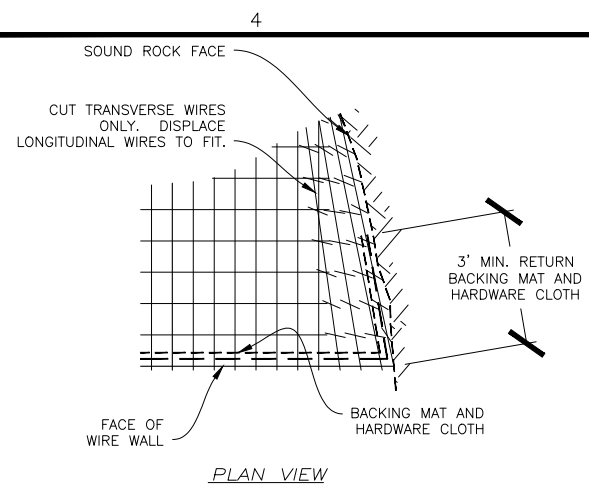
MECHANICALLY STABILIZED EARTH WALL

FOR:
HILFIKER RETAINING WALLS
SR530 TRAFALTON CREEK & SCHOOLYARD CREEK FISH PASSAGE
ARLINGTON, WA
PROJECT NO. HRW 191029BW

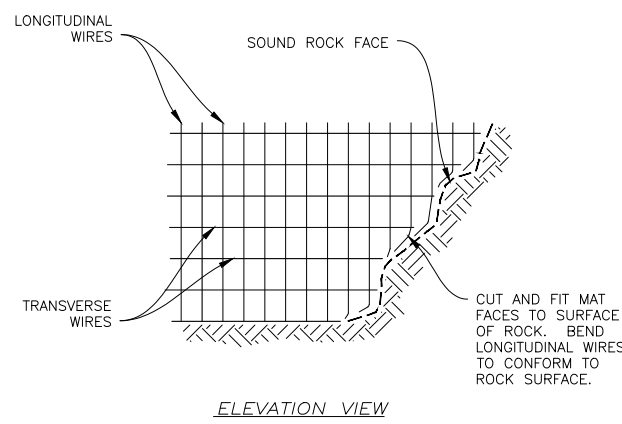
Date:
JANUARY 20, 2020
Scale:
AS NOTED NM

SHEET NUMBER
S-5

JOB NUMBER
19-2597



PLAN VIEW



ELEVATION VIEW

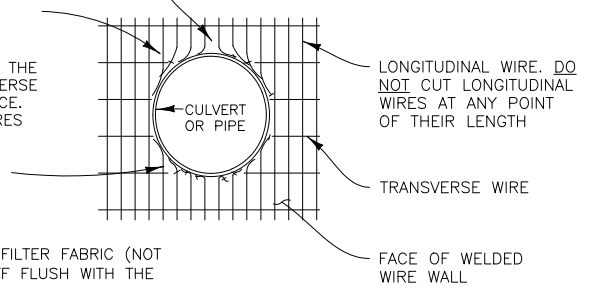
WIRE WALL DETAIL AT ROCK FACE

NOT TO SCALE

AT THE UPPER SURFACE OF THE CULVERT, CUT THE TRANSVERSE WIRES ONLY. BEND AND LIFT THE LONGITUDINAL WIRES IN THE BASE OF THE MAT TO FIT AGAINST THE SIDE OF THE CULVERT

AT THE LOWER SURFACE OF THE CULVERT, CUT THE TRANSVERSE WIRES ONLY IN THE MAT FACE. BEND THE LONGITUDINAL WIRES BACK TO FIT AGAINST THE CURVE OF THE CULVERT

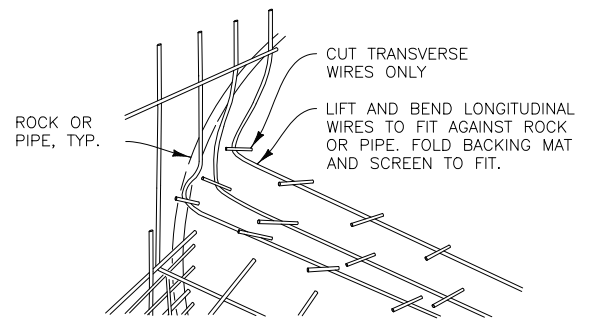
ANY LARGE GAP AT THE TOP OF THE CULVERT MAY BE CLOSED WITH BACKING MAT AND FILTER FABRIC, CUT TO FIT, OR USE LARGER ROCKS OR SACKED CONCRETE



CULVERT THRU WALL FACE

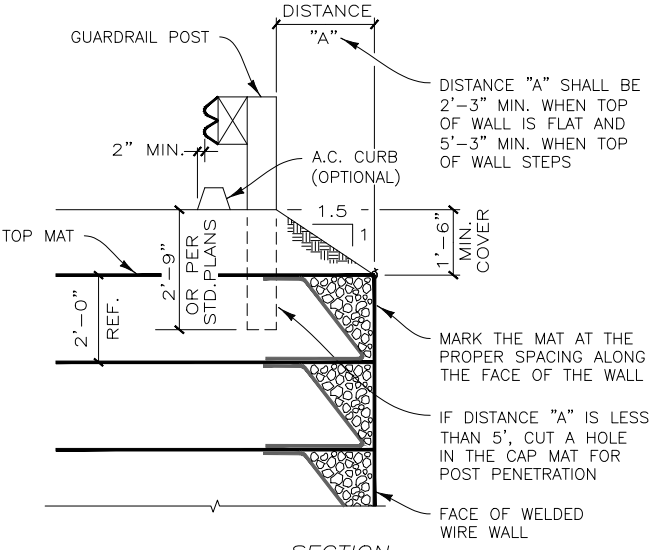
NOTE: BACKING MATS AND FILTER FABRIC (NOT SHOWN) ARE TO BE CUT OFF FLUSH WITH THE SIDES OF THE CULVERT

NOT TO SCALE



FITTING MATS TO OBSTRUCTION

NOT TO SCALE



GUARDRAIL DETAIL

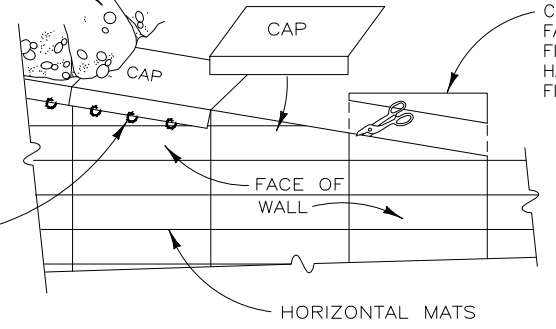
NOT TO SCALE (FENCE DETAIL SIMILAR)

STEP 4
PLACE AND COMPACT BACKFILL OVER THE SLOPED CAPS TO FINAL GRADE

STEP 2
PLACE CAPS ON SLOPE

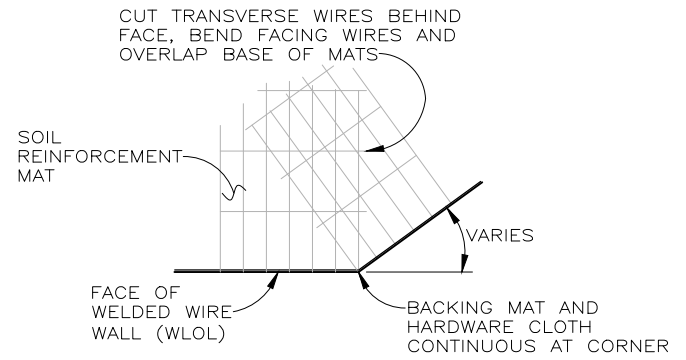
STEP 1
CUT OFF TOP OF THE MAT FACES, BACKING MATS, AND FILTER FABRIC OR CONTINUOUS HARDWARE CLOTH PARALLEL TO FINAL GRADE

STEP 3
CLIP CAPS TO MAT FACES WITH HOG RINGS



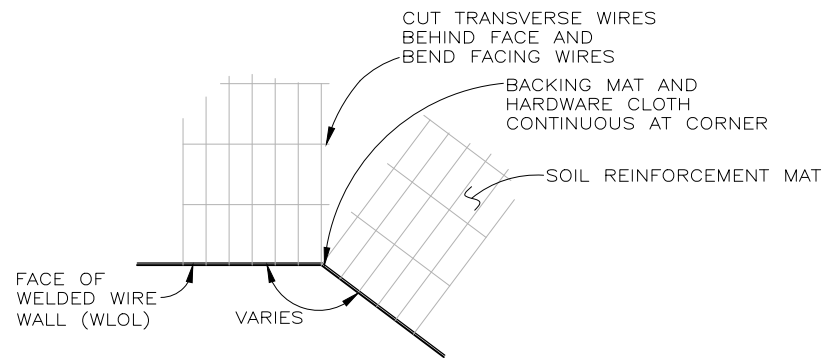
SLOPED CAP MAT DETAIL

NOT TO SCALE



CONVEX ANGLE

NOT TO SCALE

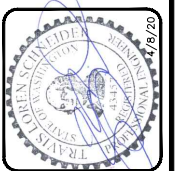


CONCAVE ANGLE

NOT TO SCALE

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

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MECHANICALLY STABILIZED EARTH WALL FOR: HILFIKER RETAINING WALLS

SRS30 TRAFFIC CREEK & SCHOOLYARD CREEK FISH PASSAGE ARLINGTON, WA
PROJECT NO. HRW 191029BW

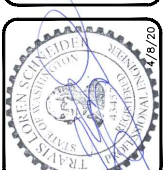
Date: JANUARY 20, 2020
Scale: AS NOTED
Drawn by: NM

SHEET NUMBER
S-6

JOB NUMBER
19-2597

REVISIONS	BY
1	2-7-20 NM
2	4-8-20 NM

PACIFIC AFFILIATES
CONSULTING ENGINEERS
990 W. WATERFRONT DRIVE, EUREKA, CA 95501
TEL (707) 445-3001



STANDARD HILFIKER DETAILS

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MECHANICALLY STABILIZED EARTH WALL
FOR:
HILFIKER RETAINING WALLS
SR530 TRAFFIC CREEK & SCHOOLYARD CREEK FISH PASSAGE
ARLINGTON, VA
PROJECT NO. HRW 191029BW

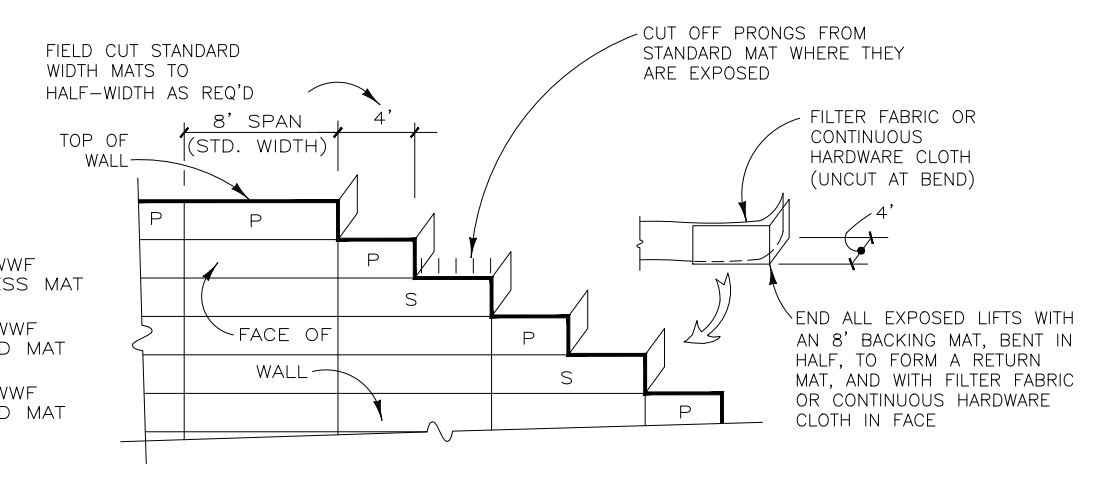
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SHEET NUMBER
S-7

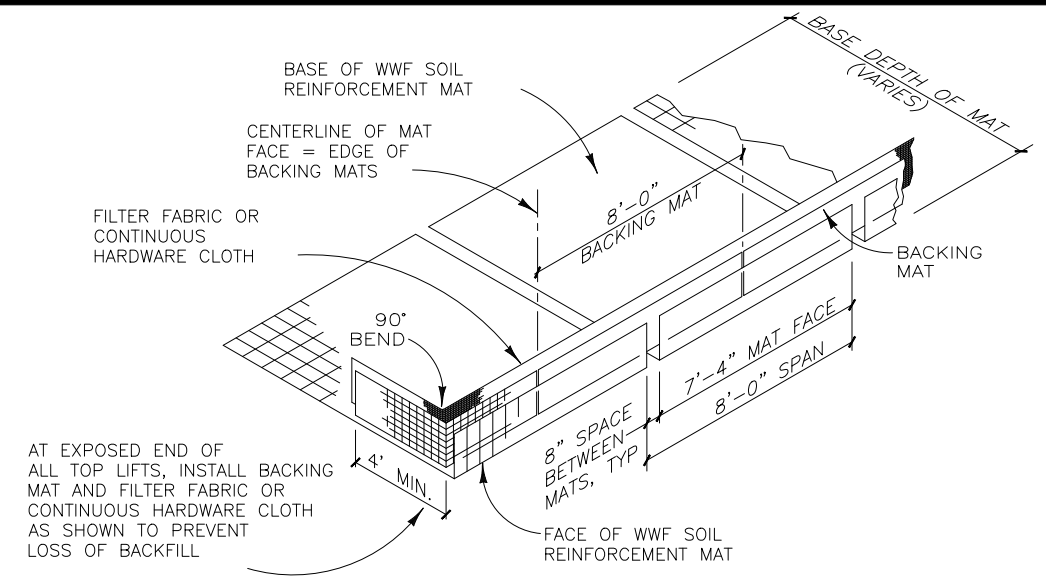
JOB NUMBER
19-2597

LEGEND
(THIS DETAIL ONLY)

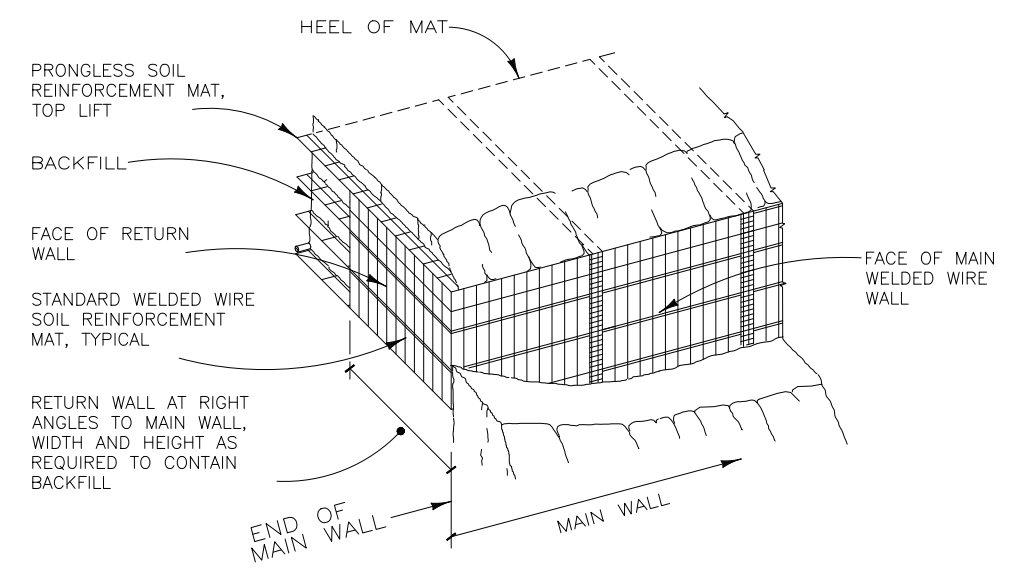
- P 8"x12" WWF PRONGLESS MAT
- S 8"x21" WWF STANDARD MAT
- 8"x21" WWF STANDARD MAT



RETURN MATS AND TOP OF WALL DETAIL
NOT TO SCALE



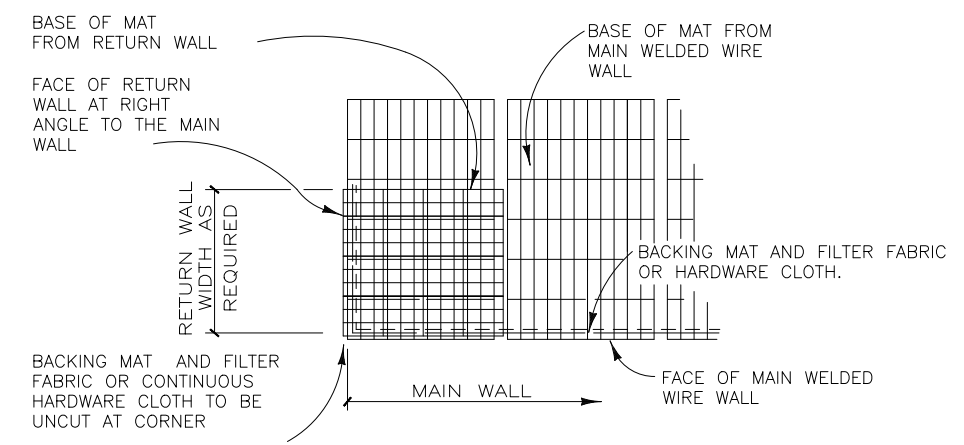
ISOMETRIC VIEW
WELDED WIRE WALL COMPONENTS WITH RETURN MAT
NOT TO SCALE



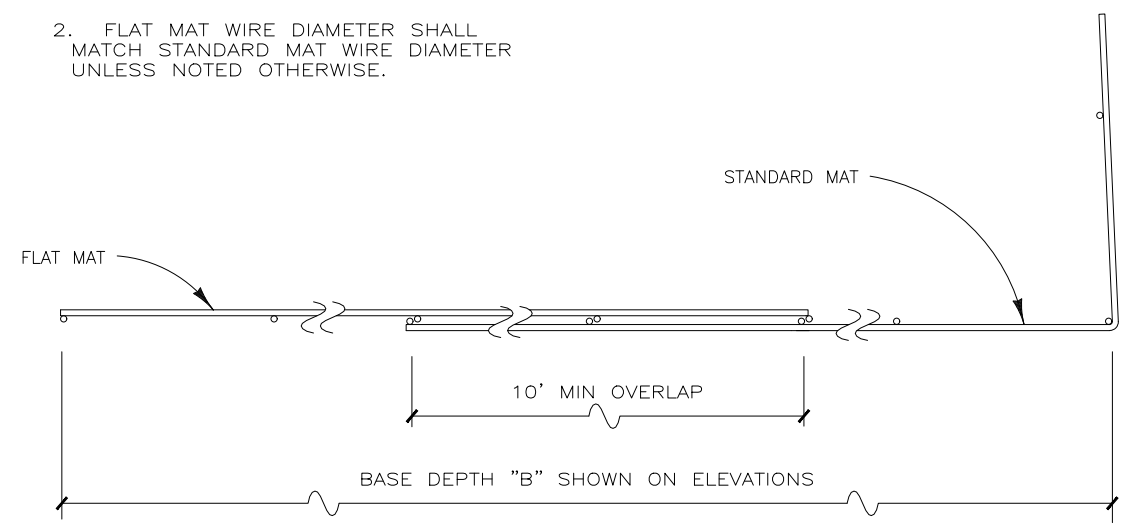
PICTORIAL
RETURN WALL DETAIL
NOT TO SCALE

SPLICE DETAIL NOTES:

1. USE 10' MIN OVERLAP SPLICES TO MATCH PROJECT BASE DEPTHS.
2. FLAT MAT WIRE DIAMETER SHALL MATCH STANDARD MAT WIRE DIAMETER UNLESS NOTED OTHERWISE.



PLAN VIEW
RETURN WALL DETAIL
NOT TO SCALE



SPLICE DETAIL
NOT TO SCALE