TRESTLE CONNECTION

GENERAL NOTES

1. The Contractor is to comply with the latest and most current additions of state and local building codes and regulations as well as Local, State and Federal regulations regarding health and safety in the workplace.

2. All existing conditions shall be verified by the Contractor prior to fabrication and construction. Any discrepancies between existing conditions and these drawings which affect the scope and the intent of the Contract Documents shall be brought to the attention of the Architect in writing immediately.

3. Existing viaduct and adjacent spaces are to be protected during demolition and construction as required. Any existing conditions damaged during construction are to be repaired and/or replaced to match the original existing condition at the Contractor's expense.

4. The Contractor is to provide all necessary temporary and weather protection for the existing structure and new construction during the full scope of construction activity on the project.

5. See the WisDot Specifications and the Special Provisions Sections of the Specification Requirements of the project.

6. Any errors or omissions are to be brought to the attention of the Architect.

7. Quantities can be found on drawings A1.0, E0.0, S1.2 and S2.1

GENERAL INFORMATION

ARCHITECT
LA DALLMAN ARCHITECTS INC.
225 E. ST. PAUL AVE. SUITE 302
MILWAUKEE, WI 53202
414.225.7450

STRUCTURAL ENGINEER
GRAEF ANHALT SCHLOEMER AND ASSOCIATES INC.
125 S. 84TH ST. SUITE 401
MILWAUKEE, WI 53214
414.259.1500

ELECTRICAL
THE MATRIX GROUP ENGINEERING CONSULTANTS
311 E. CHICAGO ST. SUITE 310
MILWAUKEE, WI 53202
414.329.2827

CITY OF MILWAUKEE
PLANNING & DEVELOPMENT
841 N. BROADWAY RM 919
MILWAUKEE, WI 53202
414.286.2451

DRAWING INDEX

LA DALLMAN ARCHITECTS *Inc*
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

GENERAL INFORMATION

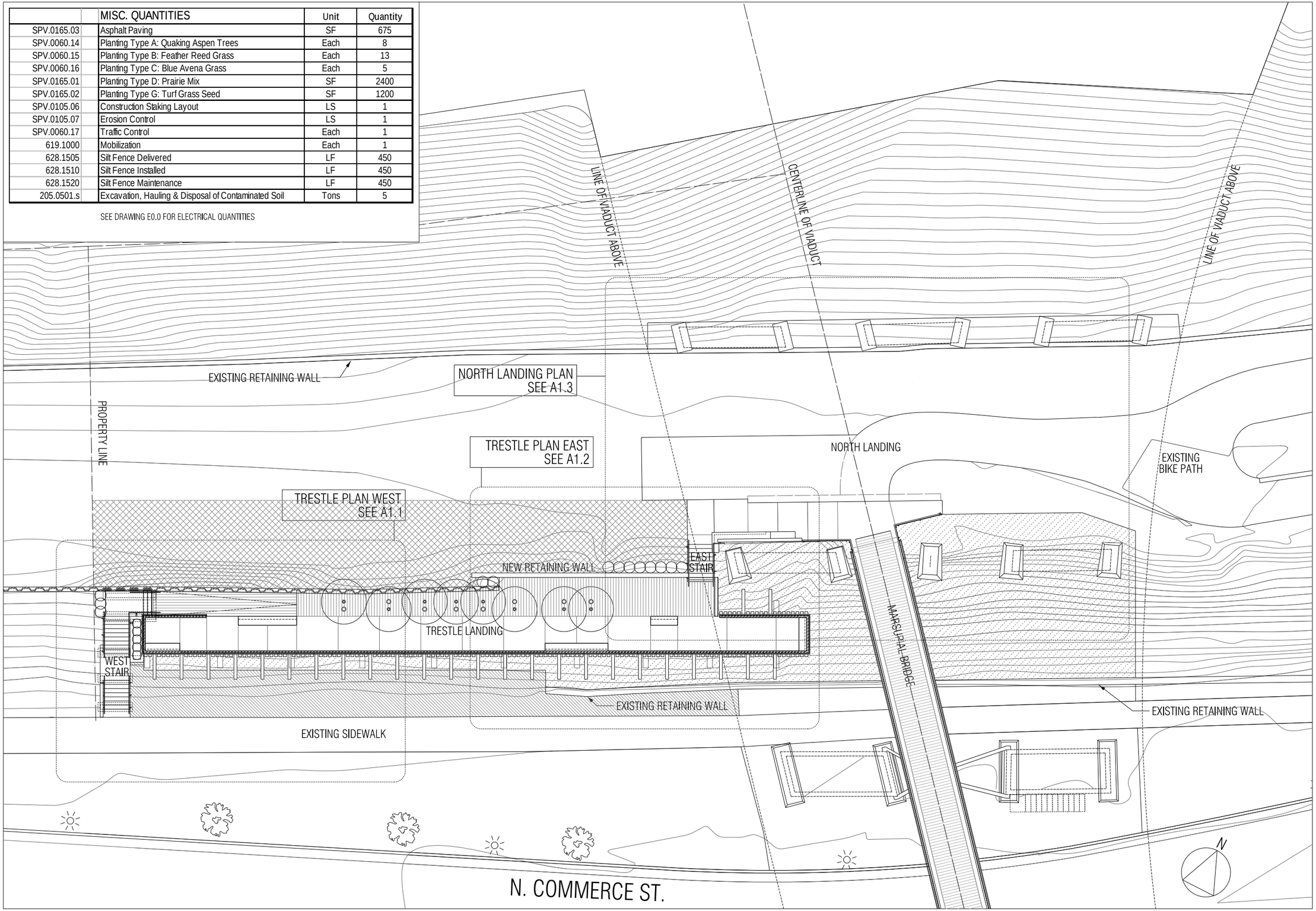
DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	NTS

G1.0

TRESTLE CONNECTION

		MISC. QUANTITIES	Unit	Quantity
SPV.0165.03		Asphalt Paving	SF	675
SPV.0060.14		Planting Type A: Quaking Aspen Trees	Each	8
SPV.0060.15		Planting Type B: Feather Reed Grass	Each	13
SPV.0060.16		Planting Type C: Blue Avena Grass	Each	5
SPV.0165.01		Planting Type D: Prairie Mix	SF	2400
SPV.0165.02		Planting Type G: Turf Grass Seed	SF	1200
SPV.0105.06		Construction Staking Layout	LS	1
SPV.0105.07		Erosion Control	LS	1
SPV.0060.17		Traffic Control	Each	1
619.1000		Mobilization	Each	1
628.1505		Silt Fence Delivered	LF	450
628.1510		Silt Fence Installed	LF	450
628.1520		Silt Fence Maintenance	LF	450
205.0501.s		Excavation, Hauling & Disposal of Contaminated Soil	Tons	5

SEE DRAWING E0.0 FOR ELECTRICAL QUANTITIES



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SITE PLAN AND QUANTITIES

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	1" = 20'

A1.0

TRESTLE CONNECTION

PROPERTY LINE

GRAVEL INFILL BETWEEN SHEET PILING AND SLAB

STEEL PLATE FORMS EDGE OF SLAB - DO NOT POUR CONCRETE WITHIN THE SHEET PILING

IPE WOOD STAIR TREADS

SLIP-RESISTANT S.S. ANGLE AT EDGE OF IPE TREAD - SEE A3.6/A3.7 FOR DETAILS

PLANTING TYPE D
SEE A4.0 FOR LANDSCAPING

LINE OF EXISTING STEEL CAP ON RETAINING WALL

EXISTING STEEL SHEET PILE RETAINING WALL

WOOD INFILL SEE STRUCTURAL 5/S1.5 FOR DETAILS

T.O.W. 122'-0"

11'-3"

CONCRETE LANDING

113'-11"

PLANTING TYPE B

5'-8"

6"

5'-6"

113'-4"

IPE WOOD RAMP
1:15.5

116'-0" UP

116'-6"

117'-0" UP

116'-7"

STEP UP

117'-2"

115'-8"

117'-8"

IPE WOOD DECK
SEE A3.6 & A3.7 FOR ADDITIONAL INFORMATION

WOOD DECKING TO EXTEND INTO SHEET PILE WALL
SCRIBE TO FOLLOW SHEET PILE PROFILE WITH 1/2" REVEAL

FIXTURE TYPE D

PLANTING TYPE A

124'

123'

122'

T.O.W. 122'-0"

PLANTING TYPE C

CONCRETE BENCH

116'-9"

117'-0"

117'-8"

118'-0"

PLANTER

8"

6'-0"

10'-3"

8'-3"

CONCRETE DECK
SEE A3.4 FOR BENCH AND LIGHT LOCATIONS

CONCRETE BENCH

GUARDRAIL
SEE A3.0 FOR ADDITIONAL INFORMATION

28'-1" V.I.F.

1'-10"

3'-0"

8" 1'-8" 8"

113'-4"

WEST CONCRETE STAIRS

108'-1"

NEW CRUSHED AGGREGATE

TYP.

10' TRESTLE TIES

15' TRESTLE TIES

NEW CRUSHED AGGREGATE

16'-0" V.I.F.

6'-0"

8'-2" V.I.F.

6'-5"

GUARDRAIL ELEVATION

PLANTING TYPE G
SEE A4.0 FOR LANDSCAPING

STAINLESS STEEL HANDRAILS

103'-5"

108'-1"

8" 6'-0"

103'-5"

NEW SLAB TO MATCH THICKNESS OF EXISTING SIDEWALK

EXISTING SIDEWALK

WEST STAIR ELEVATION

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FOUNDATIONS AND REINFORCEMENT LOCATIONS WITHIN CONCRETE

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fax 225 7451

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CONSTRUCTION DOCUMENTS

TRESTLE WEST PLAN

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16" = 1' - 0"

A1.1

TRESTLE CONNECTION

125'
PLANTING TYPE D
SEE A4.0 FOR LANDSCAPING
124'
123'
122'
NEW RETAINING WALL
R-40-416 OR R-40-579
PROVIDE A SEPARATE ESTIMATE FOR EACH OPTION
SEE STRUCTURAL DRAWINGS FOR
DETAILS OF EACH OPTION
48'-0"
REGRADE EXISTING SLOPE
122'-6"
PLANTING TYPE B
RAIN GARDEN
T.O.W. 122'-3"
T.O.W. 122'-3"
T.O.W. 121'-2"
PLANTER
122' 121' 120' 119'
PLANTING TYPE B
05 A2.0
119'-0"
T.O.W. 122'-0"
2'-9" V.I.F.
04 A2.0
EXISTING STEEL
SHEET PILE
RETAINING WALL
FIXTURE
TYPE D
PLANTING
TYPE A
IPE WOOD DECK
SEE A3.6 & A3.7 FOR
ADDITIONAL INFORMATION
LINE OF VIADUCT ABOVE
ALIGN WITH PLAN GEOMETRY OF EXISTING PAVING
ALIGN WITH PLAN GEOMETRY OF TRESTLE
9'-6"
125'-7"
124'
123'
122'
121'
NEW CONCRETE
STAIRS
6'-0"
121'-2"
11"
8"
119'-11"
120'-0"
120'-1"
IPE WOOD STEP W/ SLIP-RESISTANT
S.S. ANGLE AT EDGE OF IPE TREAD
- SEE A3.6/A3.7 FOR DETAILS
IPE WOOD DECKING
TURNS UP AS WALL
LINE OF EXISTING
CONSTRUCTION
SEE A1.3
FOR TRESTLE LANDING PLAN
EXISTING CONCRETE PAVING
125'-7 1/4"
127'-1 1/4"
EXISTING CONCRETE BENCH
5'-6"
EXISTING VIADUCT FOOTING
EXISTING CRUSHED
AGGREGATE
T.O.W. 123'-10"
01 A2.3
05 A2.3
06 A3.1
05 A3.1
CONCRETE BENCH
CONCRETE BENCH
01 A2.2
119'-0"
CONCRETE DECK
05 A2.2
03 A2.0
120'-0"
120'-6"
CONCRETE DECK
SEE A3.4 FOR BENCH AND LIGHT LOCATIONS
CONCRETE BENCH
GUARDRAIL
03 A3.1 TYP.
10' TRESTLE
TIES
15' TRESTLE
TIES
NEW CRUSHED
AGGREGATE
NEW CRUSHED
AGGREGATE
SEE A4.0 FOR
LANDSCAPING
02 A2.0
01 A2.0
LINE OF VIADUCT ABOVE
EXISTING
ASPHALT
PLANTING TYPE G
SEE A4.0 FOR LANDSCAPING
EXISTING RETAINING WALL
02 A3.0
SEE STRUCTURAL DRAWINGS
FOR EXISTING UTILITY LOCATIONS
EXISTING SIDEWALK

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FOUNDATIONS AND REINFORCEMENT LOCATIONS WITHIN CONCRETE
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXISTING UTILITY LOCATIONS

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225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
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REVISIONS

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

TRESTLE EAST PLAN

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16" = 1' - 0"

A1.2

TRESTLE CONNECTION

LINE OF VIADUCT ABOVE

LINE OF VIADUCT ABOVE

EXISTING RETAINING WALL

EXISTING VIADUCT FOOTINGS

EXISTING CONDITION
TO REMAIN

EXISTING CONDITION
TO REMAIN

NEW ASPHALT PAVING

EXISTING ASPHALT PAVING
TO REMAIN
VERIFY LOCATION IN FIELD

EXISTING ASPHALT PAVING

REPLACE WITH NEW ASPHALT PAVING

MAKE CLEAN SAW CUT
AT REMOVAL EDGE

NEW ASPHALT PAVING

REPLACE WITH SOIL/SEED TO MATCH
ADJACENT EXISTING CONDITION

EXISTING METAL FLOORING & CONCRETE BENEATH TO BE REMOVED

MAKE CLEAN SAW CUT
AT REMOVAL JOINT

EXISTING CONDITION
TO REMAIN

NEW
CONCRETE
6'-0"

PLANTING TYPE D
SEE A4.0
FOR LANDSCAPING

EXISTING CONCRETE PAVING TO REMAIN

EXISTING CONCRETE BENCH

EXISTING
IPE
DECKING

MARSUPIAL BRIDGE

EXISTING VIADUCT FOOTINGS

EXISTING VIADUCT
FOOTING

EXISTING VIADUCT FOOTINGS

SEE A1.2
FOR TRESTLE LANDING PLAN

CRUSHED AGGREGATE

EXISTING CRUSHED
AGGREGATE

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FOUNDATIONS AND REINFORCEMENT LOCATIONS WITHIN CONCRETE

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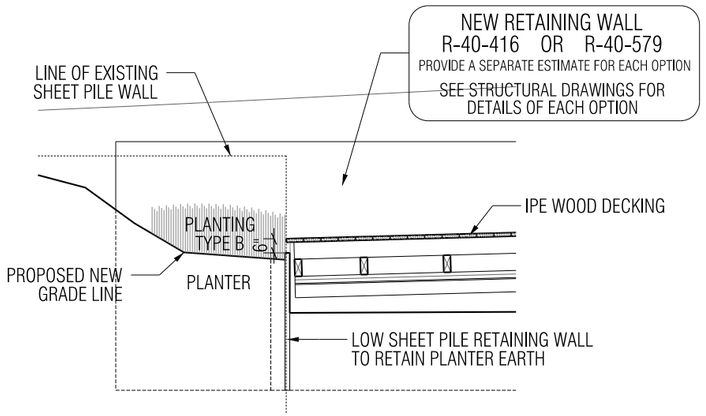
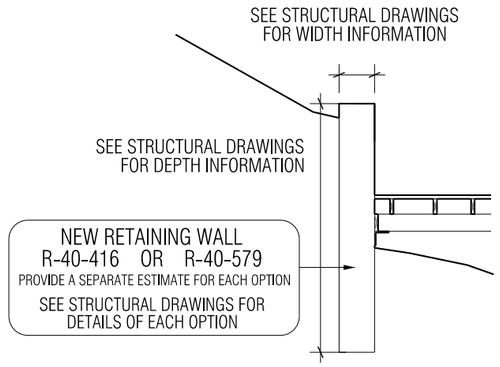
NORTH LANDING PLAN

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	1/8" = 1' - 0"

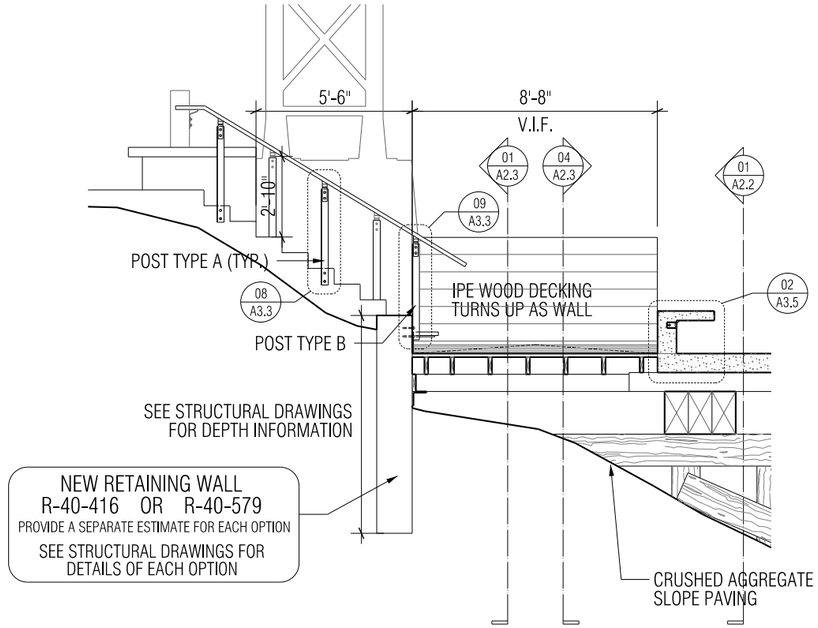
A1.3



05 LONGITUDINAL SECTION @ PLANTER
SCALE: 3/16"=1'-0"



04 SECTION @ RETAINING WALL
SCALE: 3/16"=1'-0"



03 SECTION @ SLOPE
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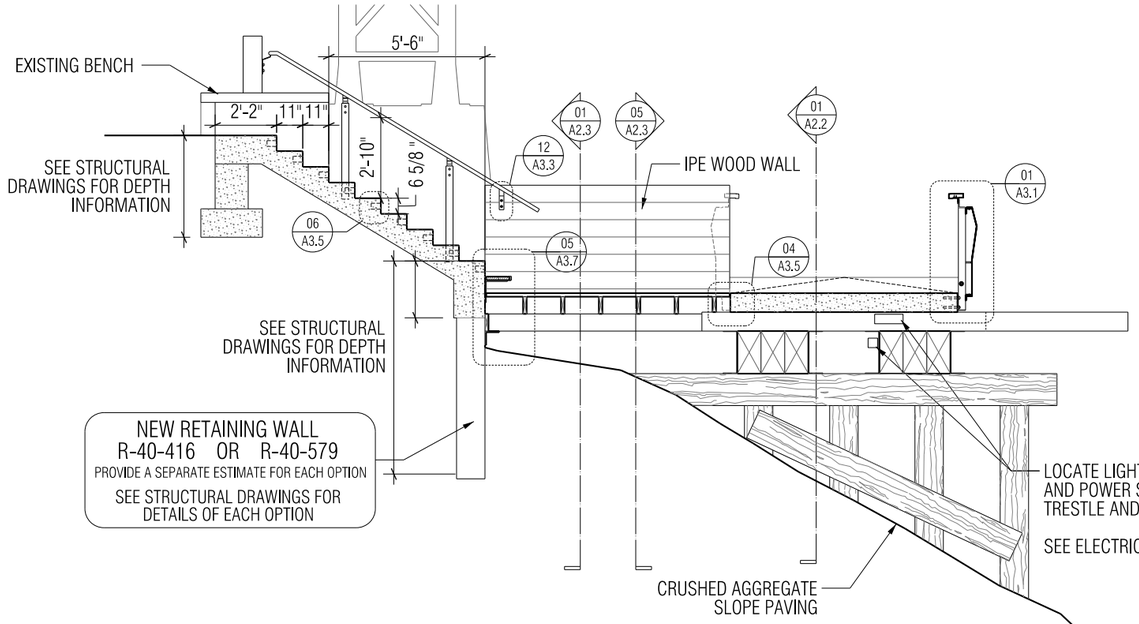
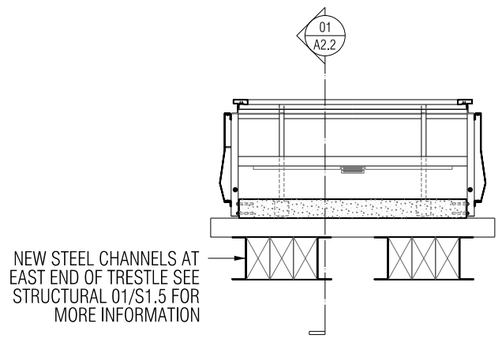


02 SECTION @ EAST STAIR
SCALE: 3/16"=1'-0"



01 SECTION @ TRESTLE EAST END
SCALE: 3/16"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE

TRESTLE CONNECTION

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225 E. St. Paul Ave. Suite 302
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414 225 7450
fax 225 7451

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TRESTLE SECTIONS

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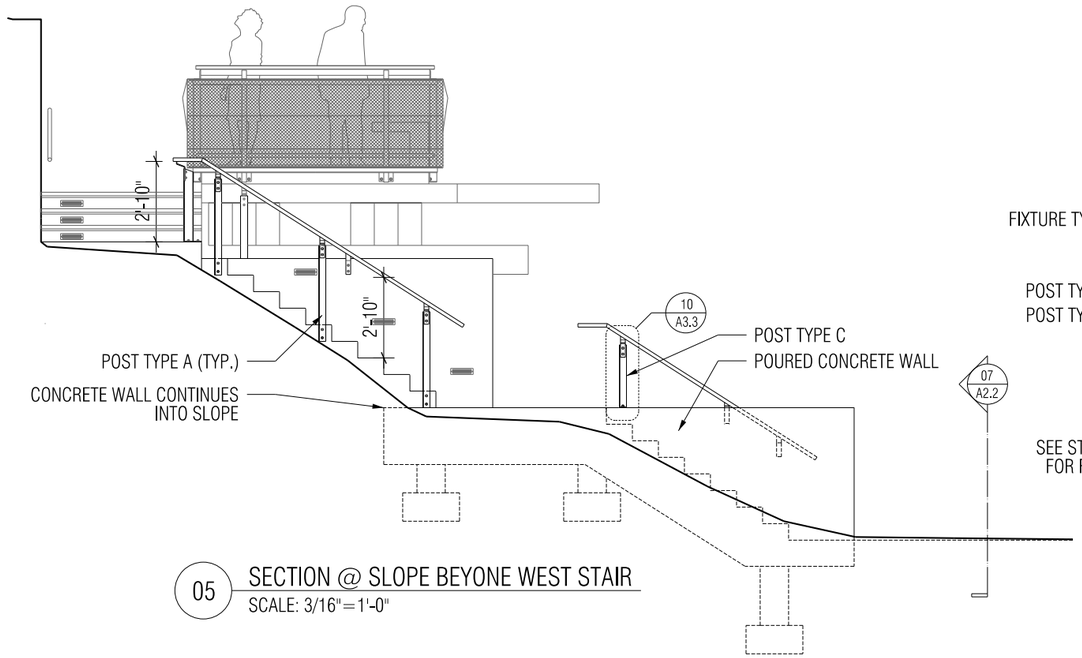
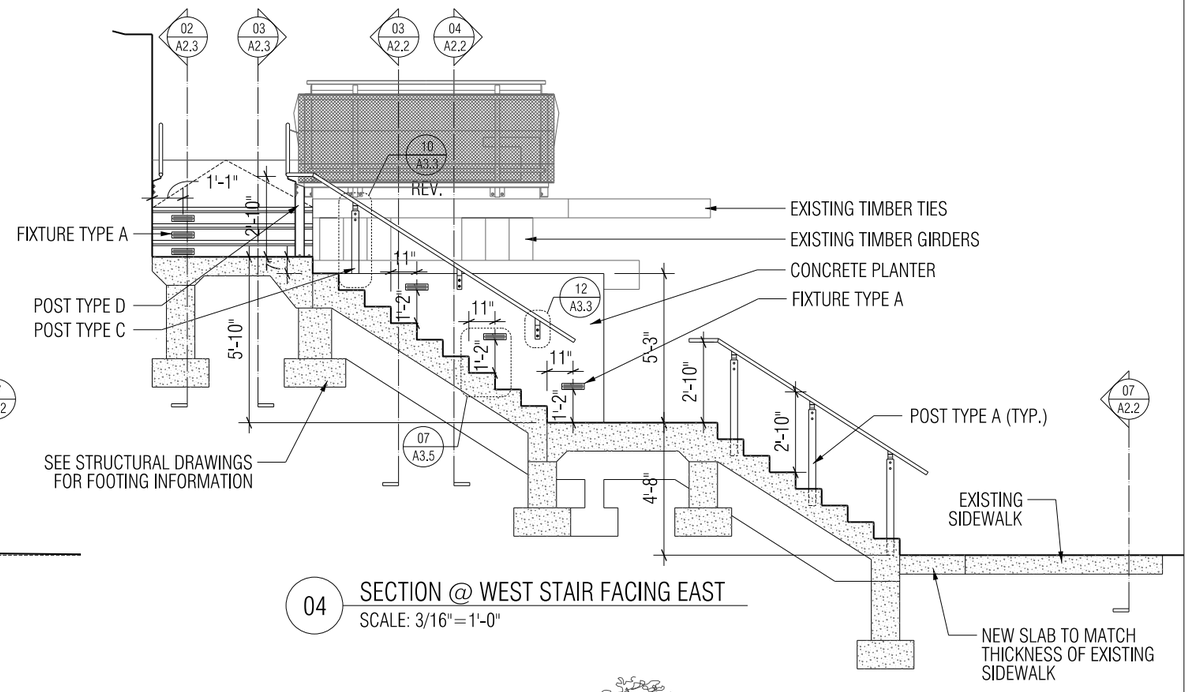
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16" = 1' - 0"

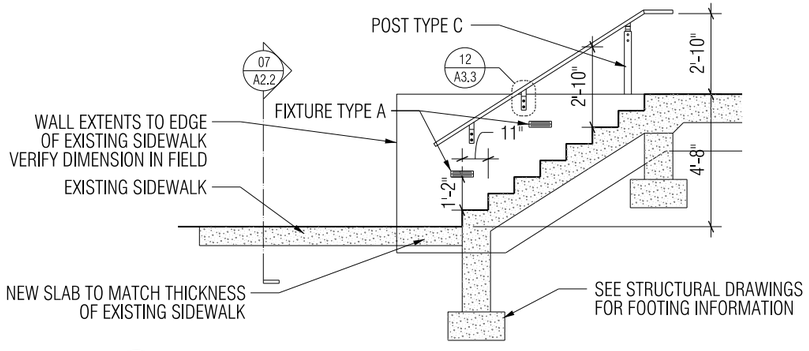
A2.0



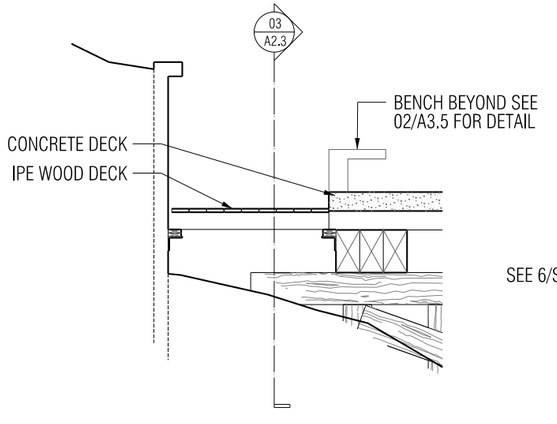
05 SECTION @ SLOPE BEYONE WEST STAIR
SCALE: 3/16"=1'-0"



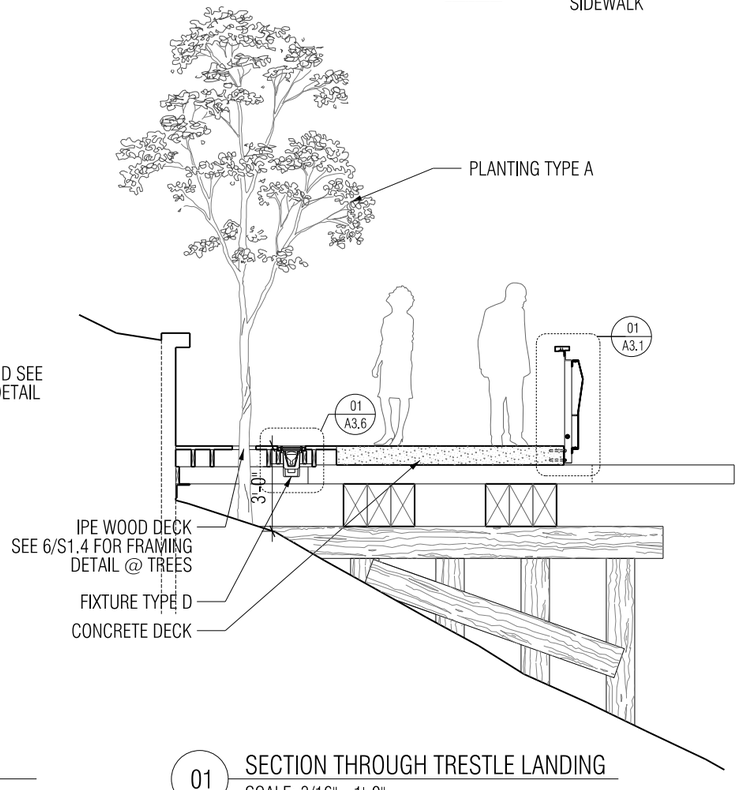
04 SECTION @ WEST STAIR FACING EAST
SCALE: 3/16"=1'-0"



03 SECTION @ WEST STAIR FACING WEST
SCALE: 3/16"=1'-0"



02 SECTION @ IPE WOOD RAMP
SCALE: 3/16"=1'-0"



01 SECTION THROUGH TRESTLE LANDING
SCALE: 3/16"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE

TRESTLE CONNECTION

LA DALLMAN ARCHITECTS *Inc*
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
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TRESTLE SECTIONS

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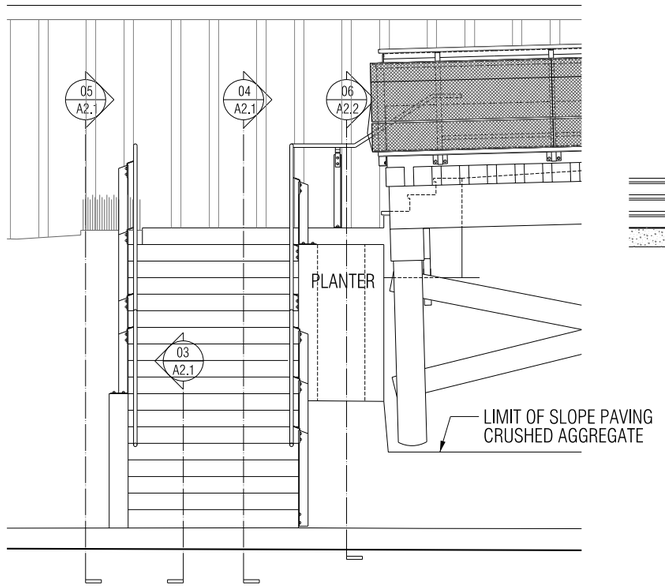
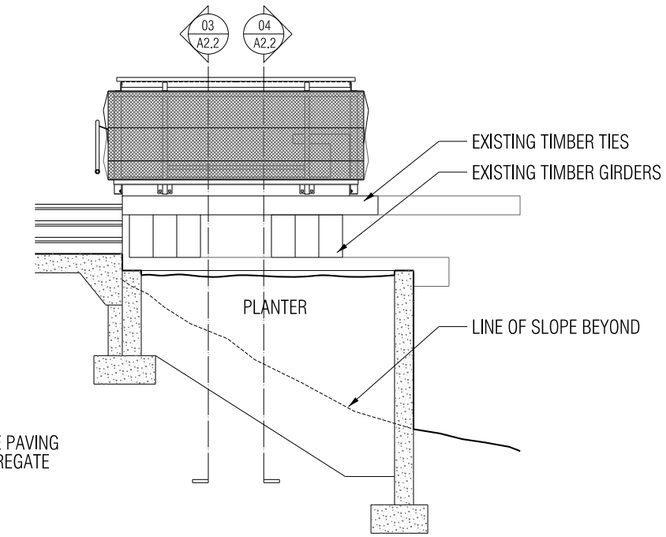
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16" = 1' - 0"

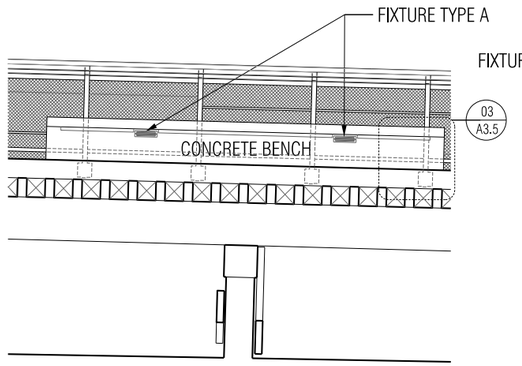
A2.1



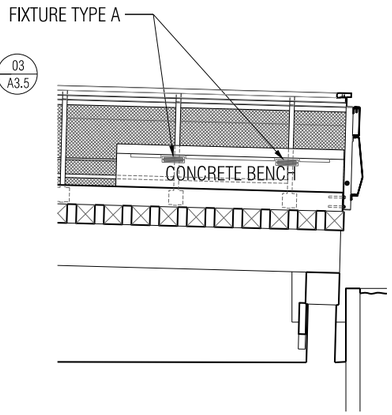
07 ELEVATION @ WEST STAIR
SCALE: 3/16"=1'-0"



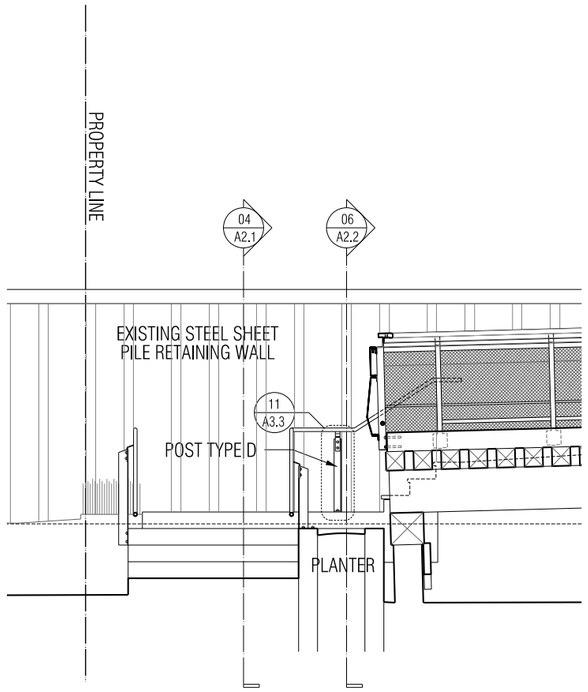
06 SECTION @ PLANTER
SCALE: 3/16"=1'-0"



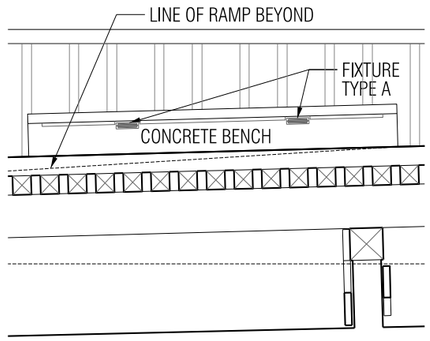
05 ELEVATION @ TRESTLE BENCH
SCALE: 3/16"=1'-0"



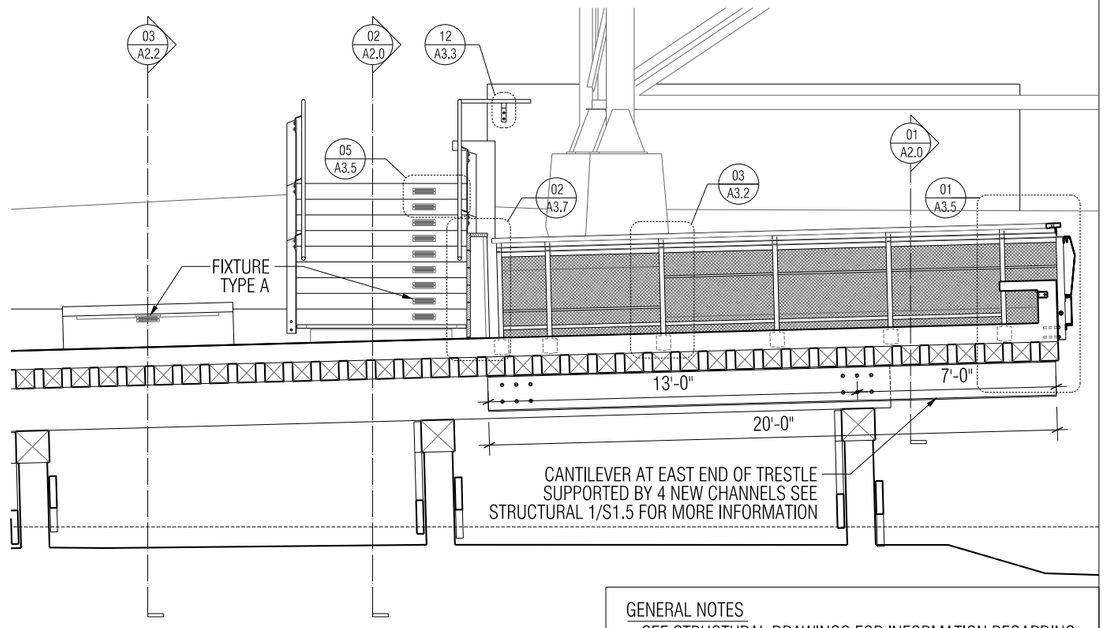
04 SECTION @ TRESTLE WEST END
SCALE: 3/16"=1'-0"



03 SECTION @ CONCRETE PLANTER
SCALE: 3/16"=1'-0"



02 ELEVATION @ TRESTLE BENCH
SCALE: 3/16"=1'-0"



01 SECTION @ TRESTLE EAST END
SCALE: 3/16"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SLOPE OF CONCRETE AND WOOD DECK TO FOLLOW SLOPE OF EXISTING TRESTLE

TRESTLE CONNECTION

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225 E. St. Paul Ave. Suite 302
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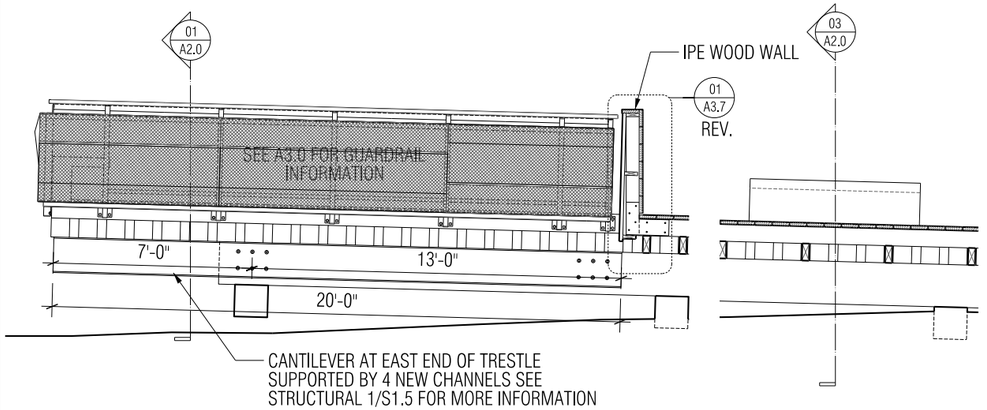
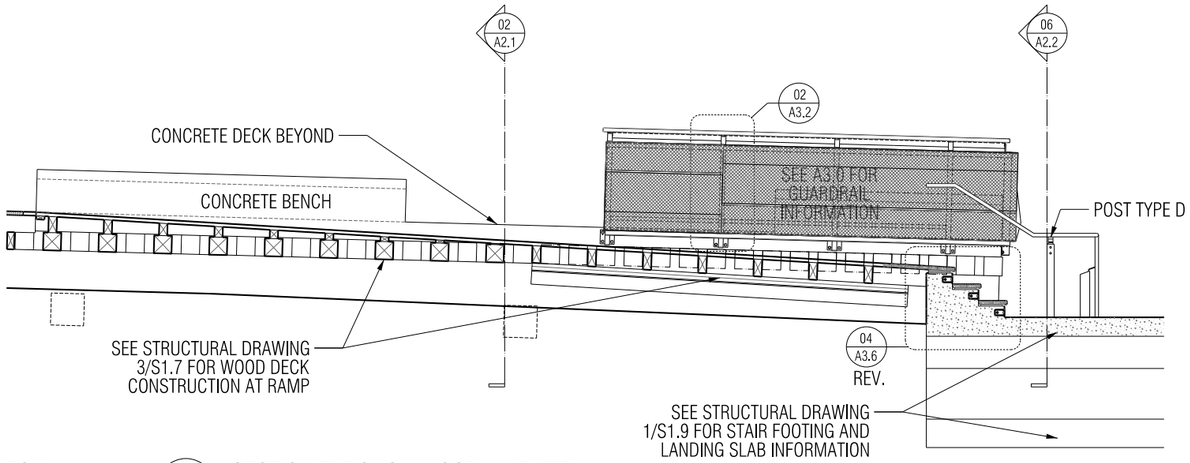
TRESTLE SECTIONS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16"=1'-0"

A2.2

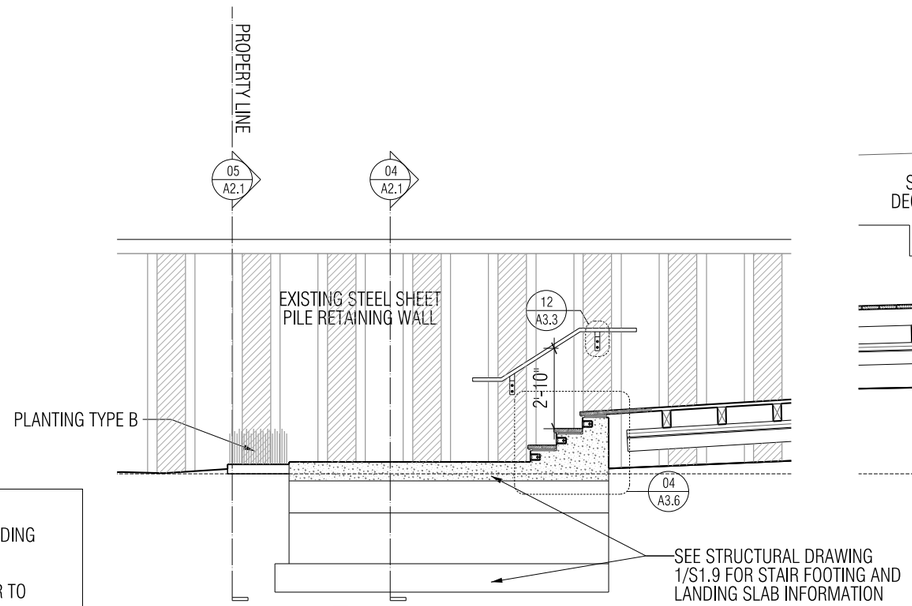


05 SECTION THROUGH WOOD DECK @ EAST END
SCALE: 3/16"=1'-0"

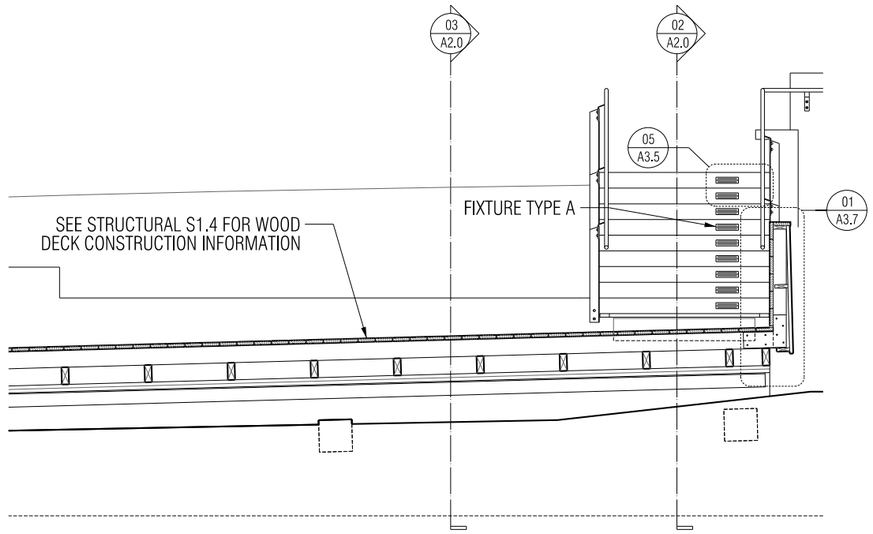


04 SECTION THROUGH WOOD DECK
SCALE: 3/16"=1'-0"

03 SECTION THROUGH WOOD @ RAMP
SCALE: 3/16"=1'-0"



02 SECTION @ WEST STAIR
SCALE: 3/16"=1'-0"



01 SECTION THROUGH WOOD DECK
SCALE: 3/16"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR INFORMATION REGARDING FOUNDATIONS AND STAIR REINFORCEMENT, FOOTINGS, FASTENERS AND STRUCTURAL SIZING
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- SLOPE OF CONCRETE AND WOOD DECK TO FOLLOW SLOPE OF EXISTING TRESTLE

TRESTLE CONNECTION

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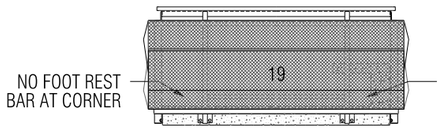
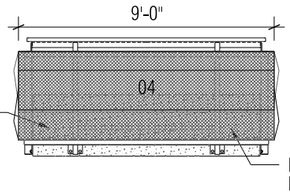
PROJECT NO.	0709
DATE	05.30.2012
SCALE	3/16"=1'-0"

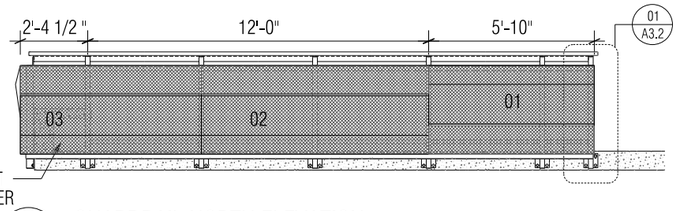
A2.3



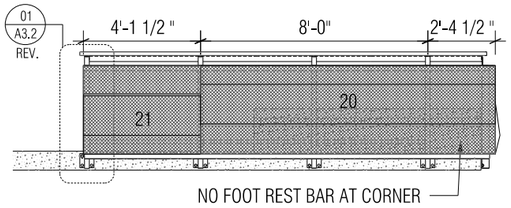
07 GUARDRAIL WEST ELEVATION
SCALE: 3/16"=1'-0"



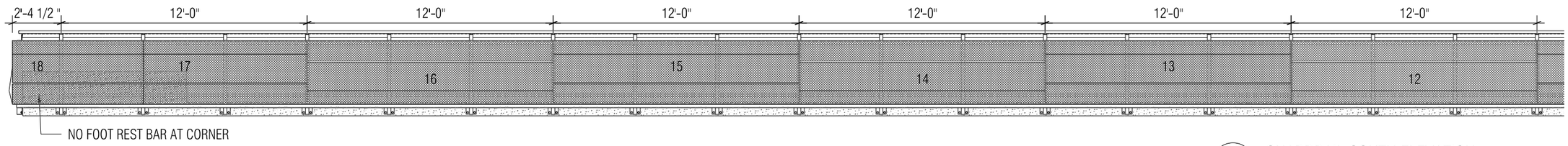
06 GUARDRAIL EAST ELEVATION
SCALE: 3/16"=1'-0"



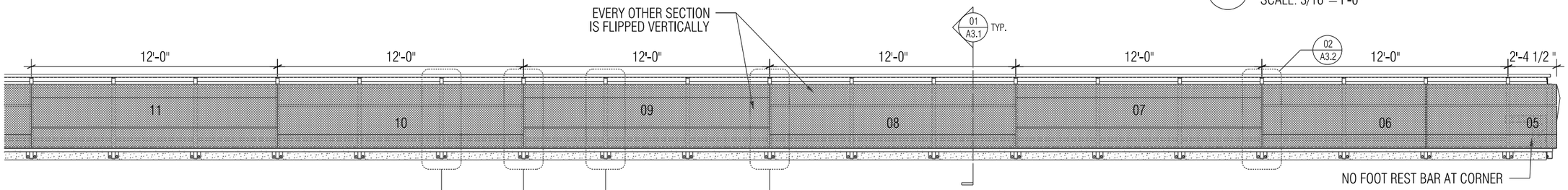
05 GUARDRAIL NORTH ELEVATION
SCALE: 3/16"=1'-0"



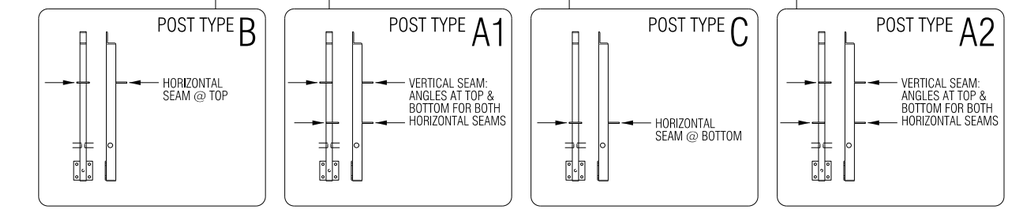
04 GUARDRAIL NORTH ELEVATION
SCALE: 3/16"=1'-0"



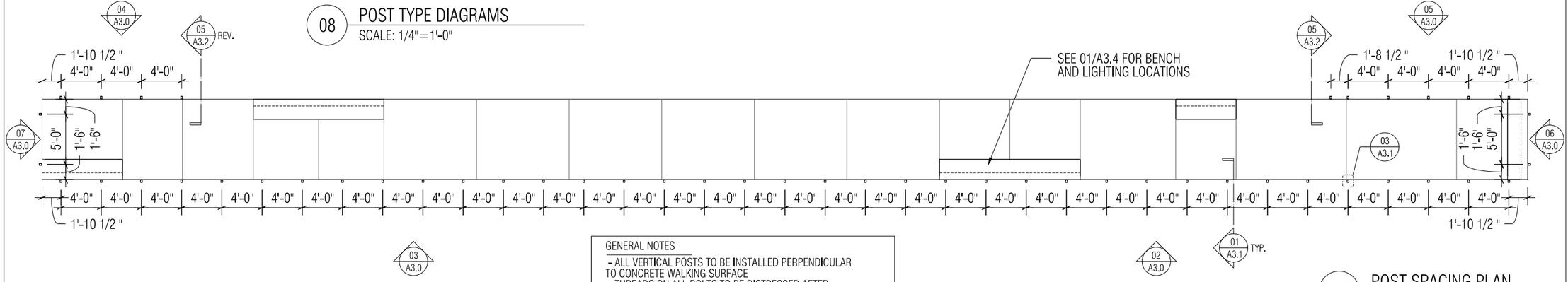
03 GUARDRAIL SOUTH ELEVATION
SCALE: 3/16"=1'-0"



02 GUARDRAIL SOUTH ELEVATION
SCALE: 3/16"=1'-0"



08 POST TYPE DIAGRAMS
SCALE: 1/4"=1'-0"



01 POST SPACING PLAN
SCALE: 3/32"=1'-0"

GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- THREADS ON ALL BOLTS TO BE DISTRESSED AFTER ASSEMBLY TO REDUCE EASY REMOVAL
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING

TRESTLE CONNECTION

LA DALLMAN ARCHITECTS *Inc*
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

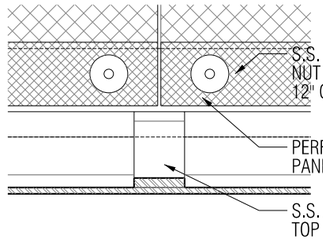
REVISIONS

NO.	DATE	DESCRIPTION

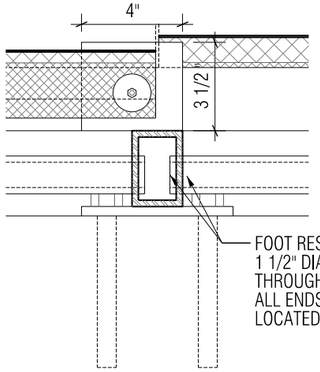
CONSTRUCTION DOCUMENTS
GUARDRAIL DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

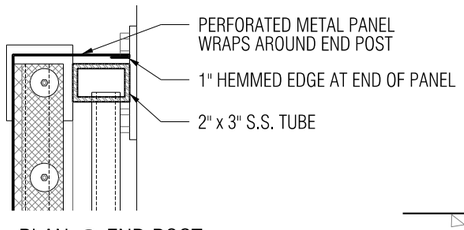
A3.0



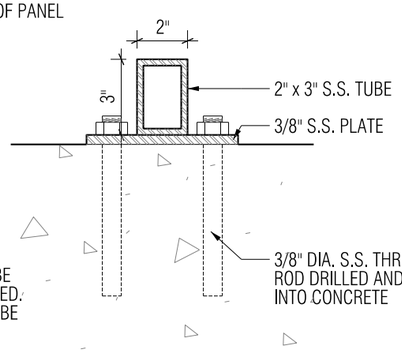
07 PLAN DETAIL @ PANEL SEAM
SCALE: 2"=1'-0"



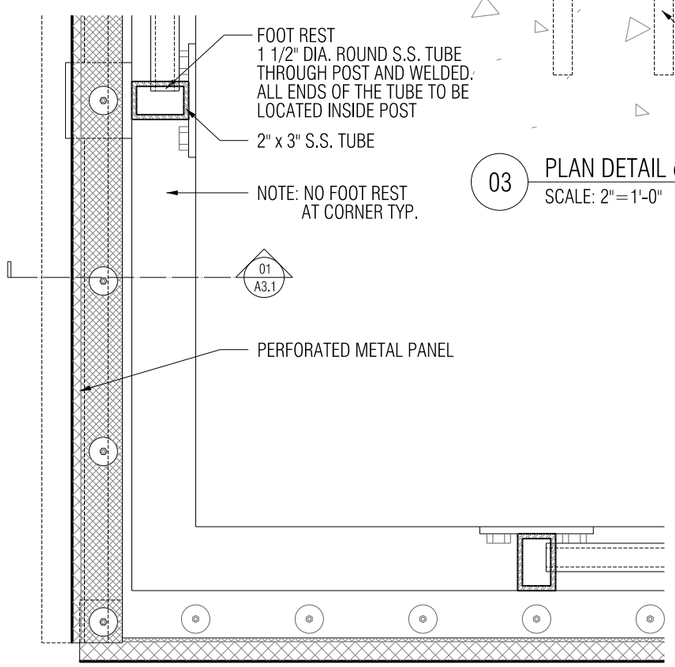
04 PLAN DETAIL @ PANEL SEAM
SCALE: 2"=1'-0"



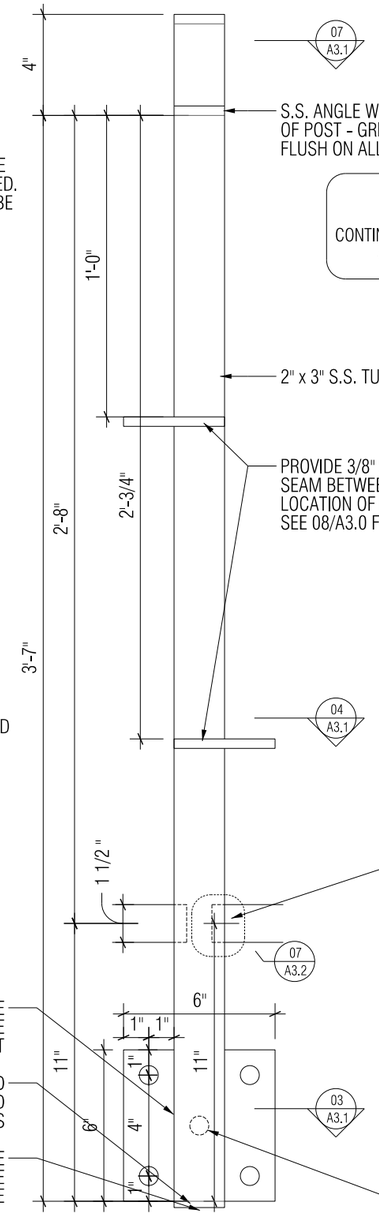
06 PLAN @ END POST
SCALE: 1 1/2"=1'-0"



03 PLAN DETAIL @ POST
SCALE: 2"=1'-0"

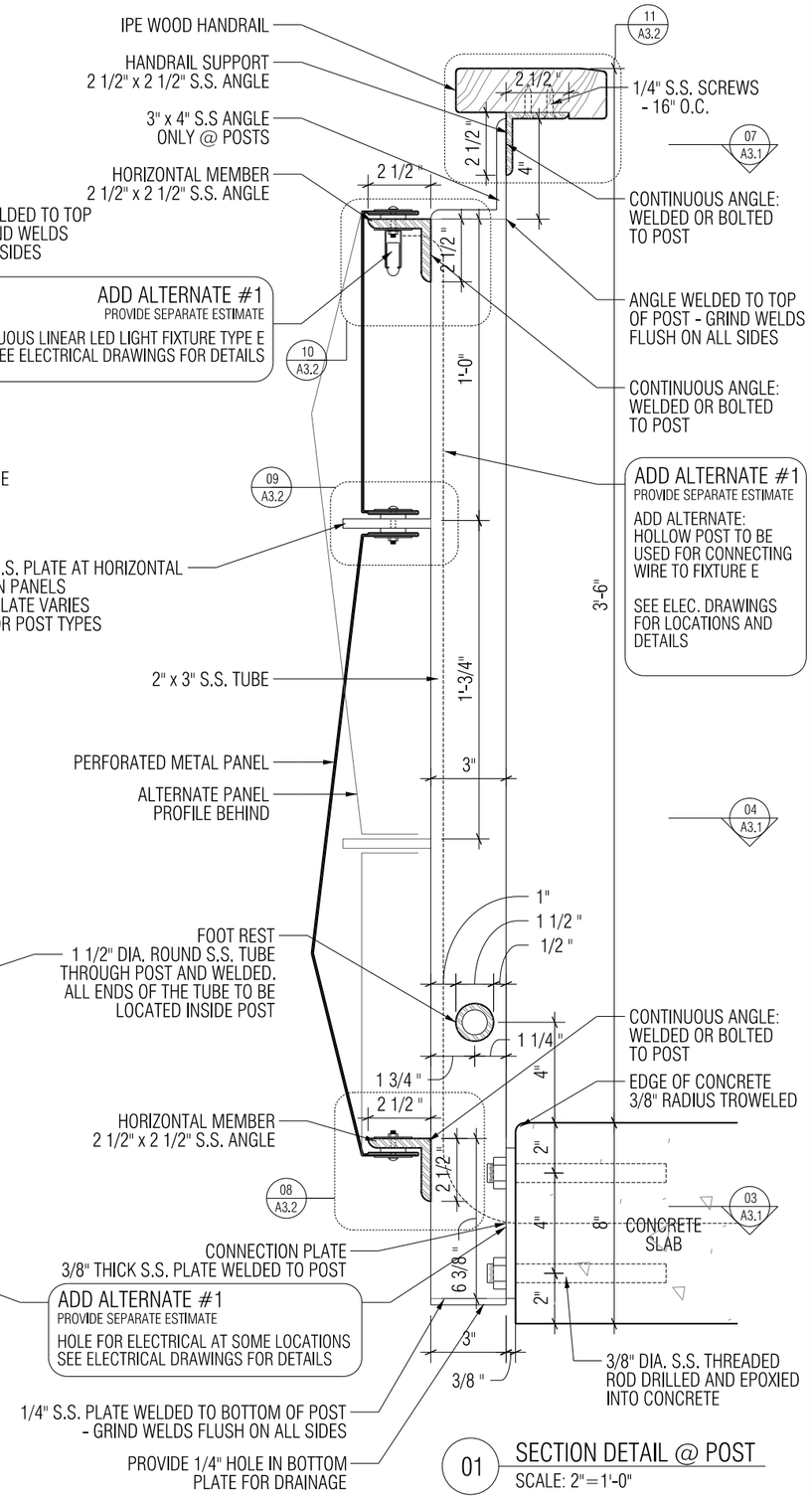


05 PLAN @ CORNER (TYP.)
SCALE: 1 1/2"=1'-0"



02 ELEVATION OF POST (TYPE A1)
SCALE: 2"=1'-0"

GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- THREADS ON ALL BOLTS TO BE DISTRESSED AFTER ASSEMBLY TO REDUCE EASY REMOVAL
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING



01 SECTION DETAIL @ POST
SCALE: 2"=1'-0"

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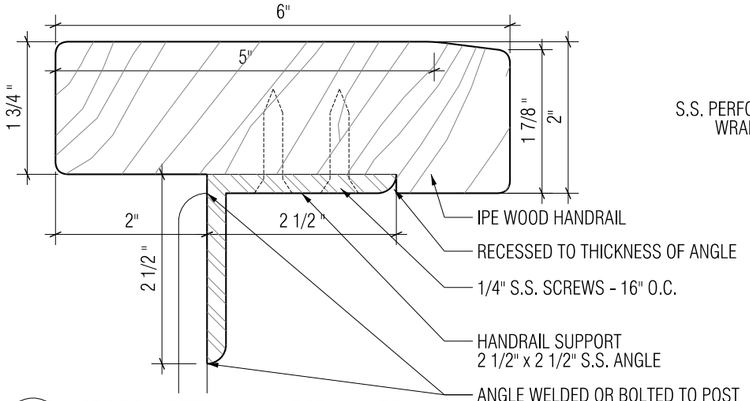
CONSTRUCTION DOCUMENTS

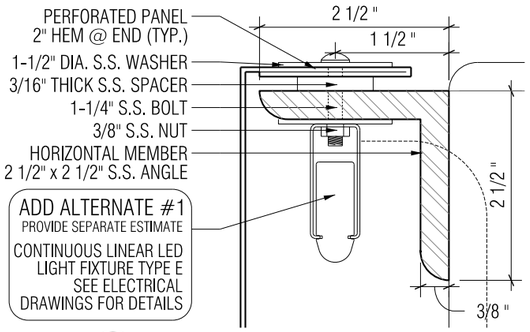
GUARDRAIL DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

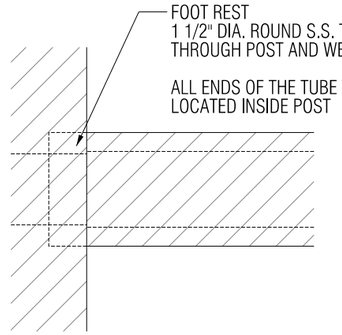
A3.1



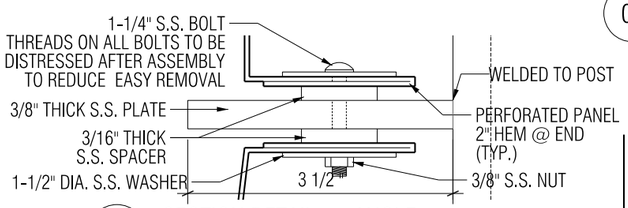
11 SECTION DETAIL @ WOOD HANDRAIL
SCALE: 1/2"=1"



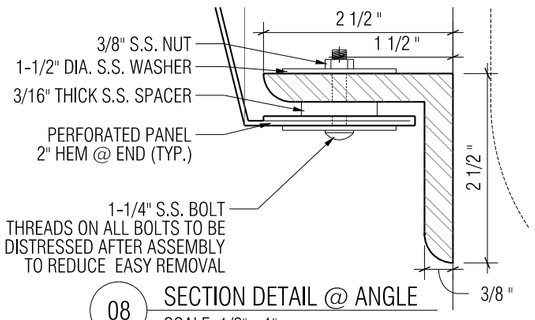
10 SECTION DETAIL @ ANGLE
SCALE: 1/2"=1"



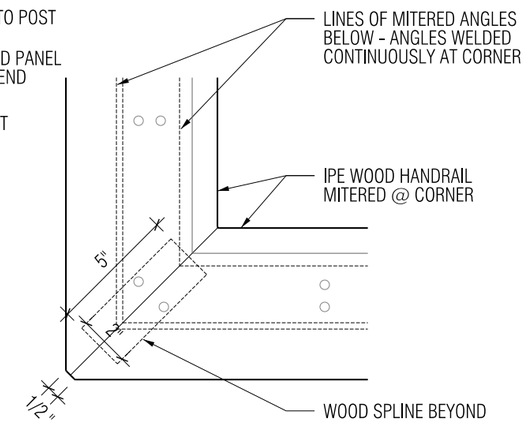
07 FOOTREST DETAIL
SCALE: 1"=1'-0"



09 SECTION DETAIL @ ANGLE
SCALE: 1/2"=1"

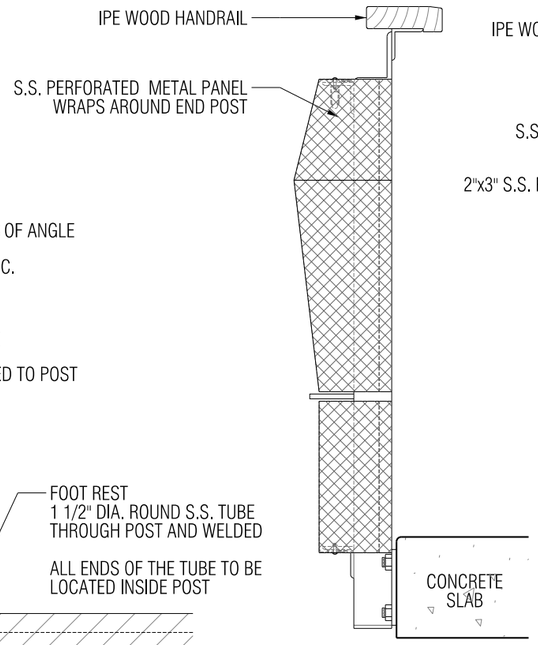


08 SECTION DETAIL @ ANGLE
SCALE: 1/2"=1"

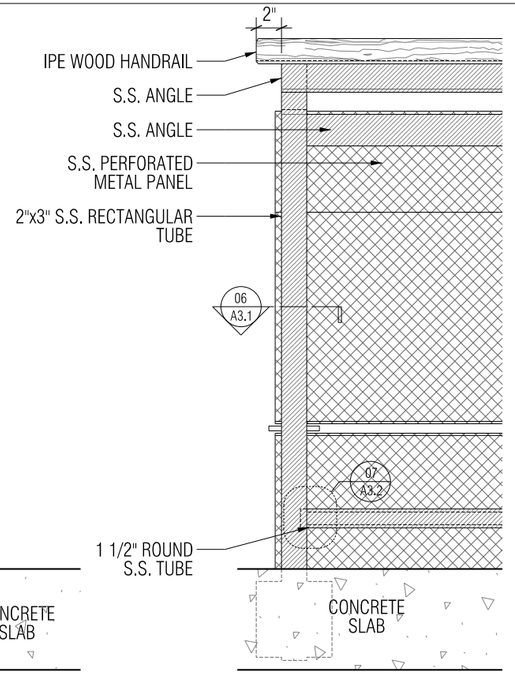


06 PLAN DETAIL @ CORNER
SCALE: 2"=1'-0"

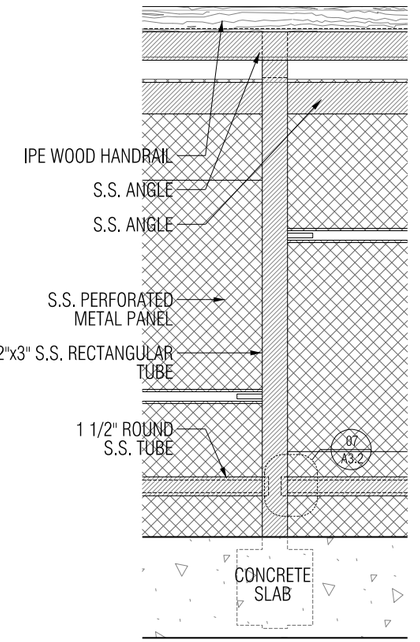
GENERAL NOTES
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- THREADS ON ALL BOLTS TO BE DISTRESSED AFTER ASSEMBLY TO REDUCE EASY REMOVAL
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING



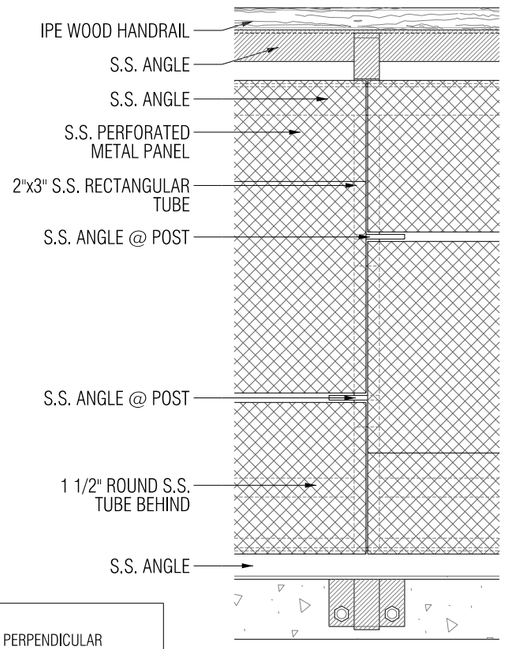
05 SIDE ELEVATION @ END POST
SCALE: 1"=1'-0"



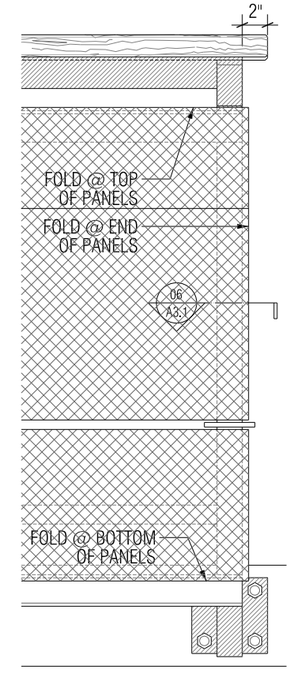
04 INT. ELEVATION @ END
SCALE: 1"=1'-0"



03 INT. ELEVATION @ POST
SCALE: 1"=1'-0"



02 EXT. ELEVATION @ POST
SCALE: 1"=1'-0"



01 EXT. ELEVATION @ END
SCALE: 1"=1'-0"

TRESTLE CONNECTION

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REVISIONS

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CONSTRUCTION DOCUMENTS

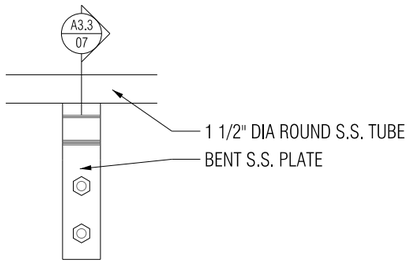
GUARDRAIL DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

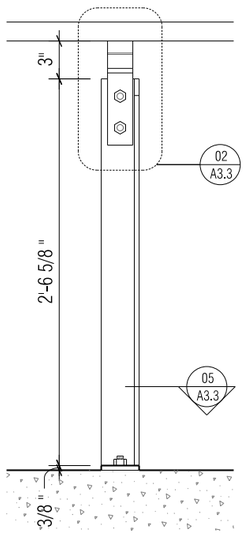
A3.2

GENERAL NOTES

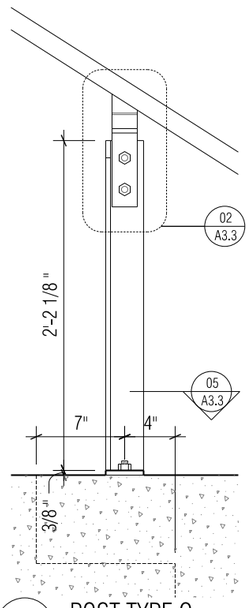
- ALL VERTICAL POSTS TO BE INSTALLED PERPENDICULAR TO CONCRETE WALKING SURFACE
- THREADS ON ALL BOLTS TO BE DISTRESSED AFTER ASSEMBLY TO REDUCE EASY REMOVAL
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING



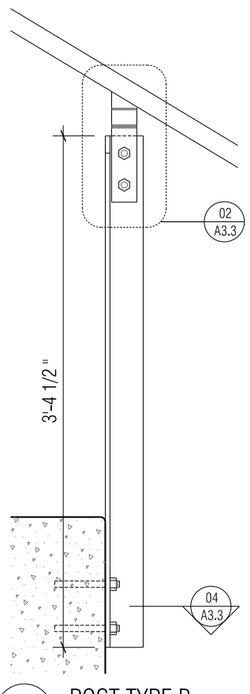
12 ELE. @ BRACKET
SCALE: 1"=1'-0"



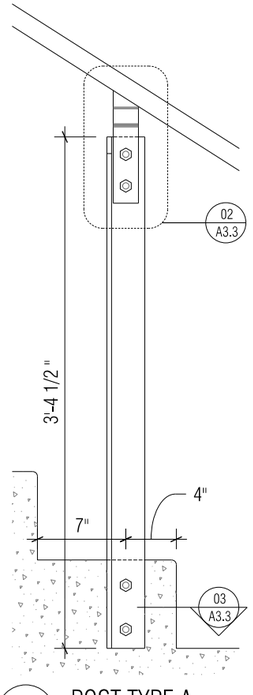
11 POST TYPE D
SCALE: 1"=1'-0"



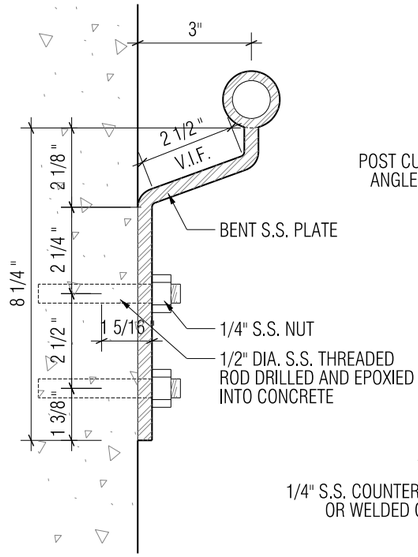
10 POST TYPE C
SCALE: 1"=1'-0"



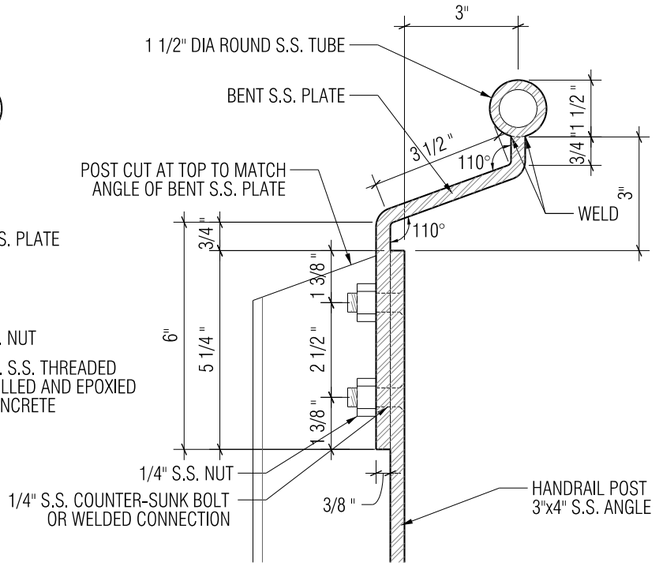
09 POST TYPE B
SCALE: 1"=1'-0"



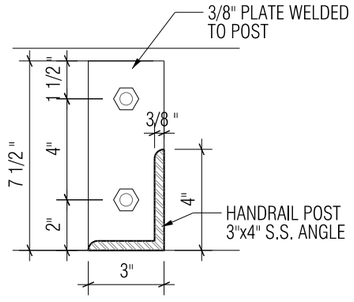
08 POST TYPE A
SCALE: 1"=1'-0"



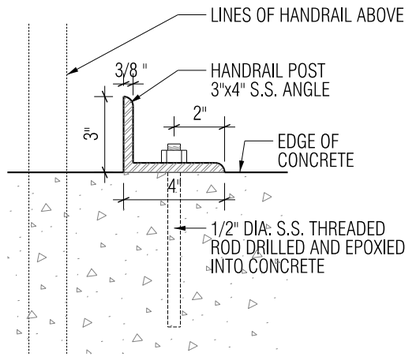
07 CONNECTION @ WALL
SCALE: 3"=1'-0"



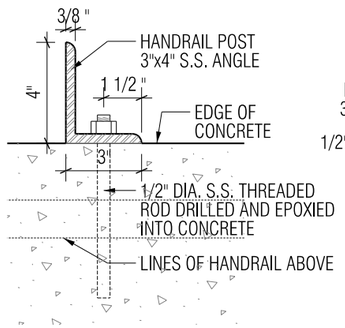
06 HANDRAIL SECTION @ TOP (TYP.)
SCALE: 3"=1'-0"



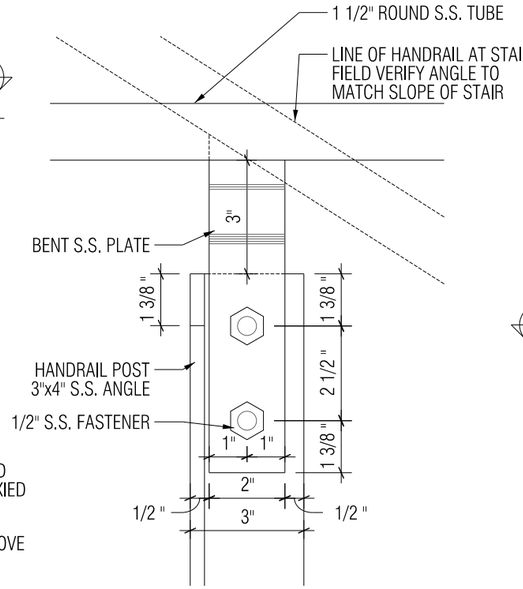
05 PLAN @ POST C / D
SCALE: 2"=1'-0"



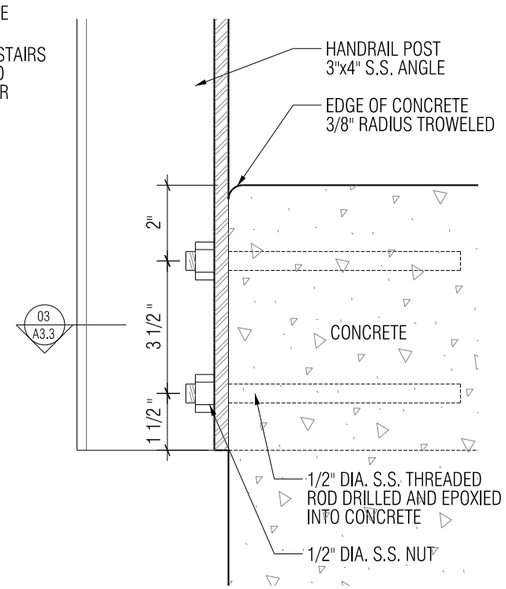
04 PLAN @ POST B
SCALE: 2"=1'-0"



03 PLAN @ POST A (TYP.)
SCALE: 2"=1'-0"



02 HANDRAIL ELEVATION @ TOP
SCALE: 3"=1'-0"



01 HANDRAIL SECTION @ BOTTOM (TYP.)
SCALE: 3"=1'-0"

TRESTLE CONNECTION

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REVISIONS

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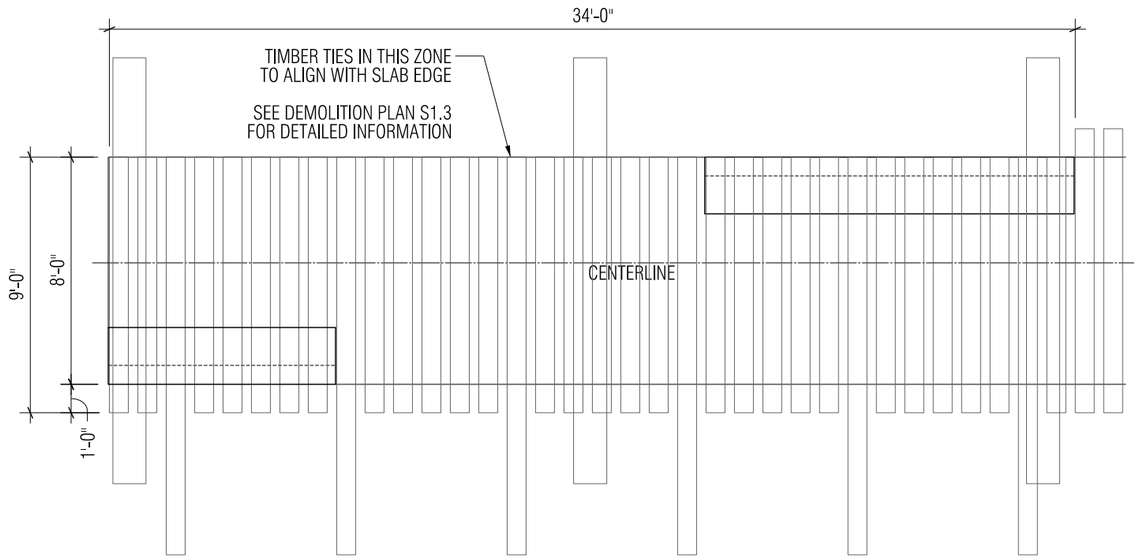
CONSTRUCTION DOCUMENTS

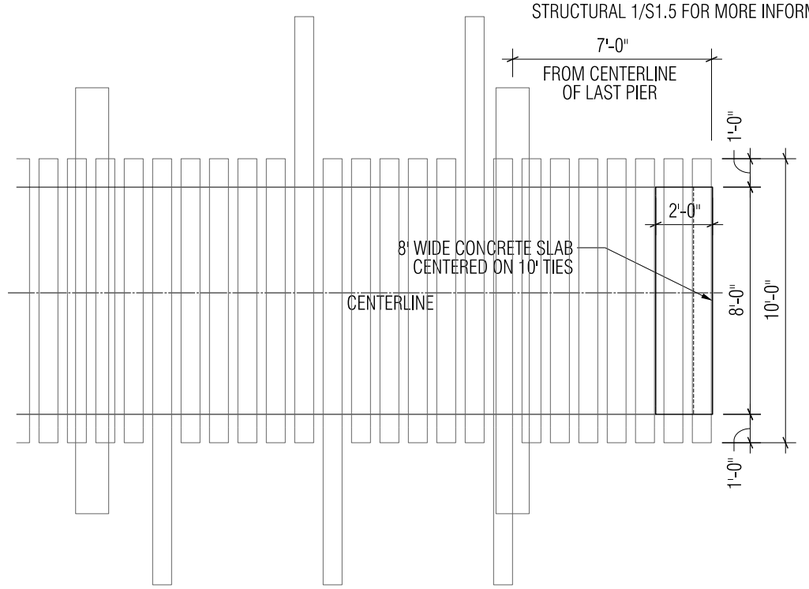
HANDRAIL DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

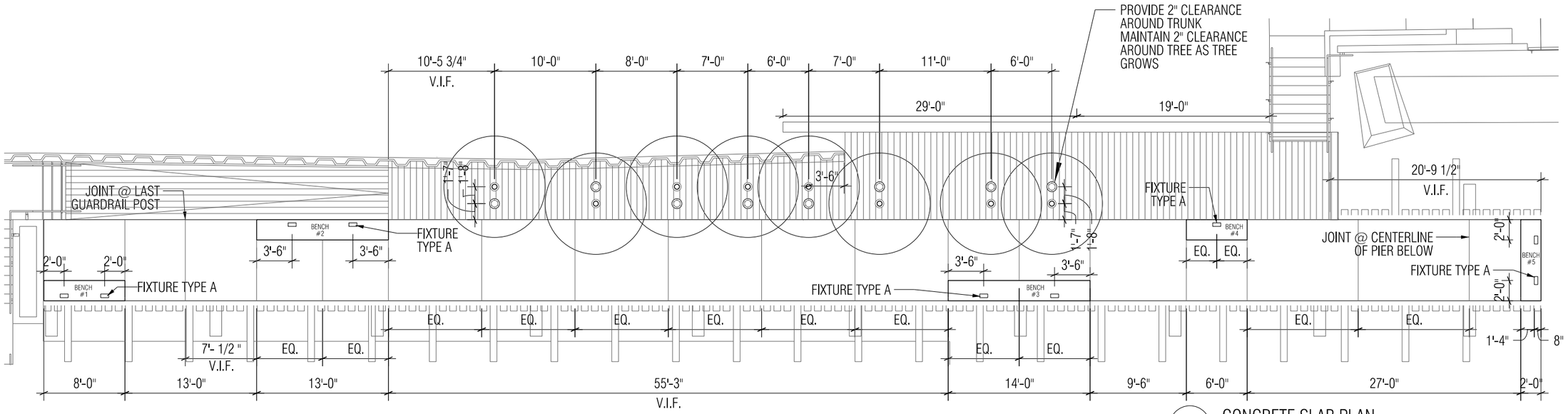
A3.3



03 TRESTLE WEST END
SCALE: 3/16"=1'-0"



02 TRESTLE EAST END
SCALE: 3/16"=1'-0"



01 CONCRETE SLAB PLAN
SCALE: 3/32"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING REINFORCEMENT LOCATIONS
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIXTURE WIRING AND POWER SUPPLIES

TRESTLE CONNECTION

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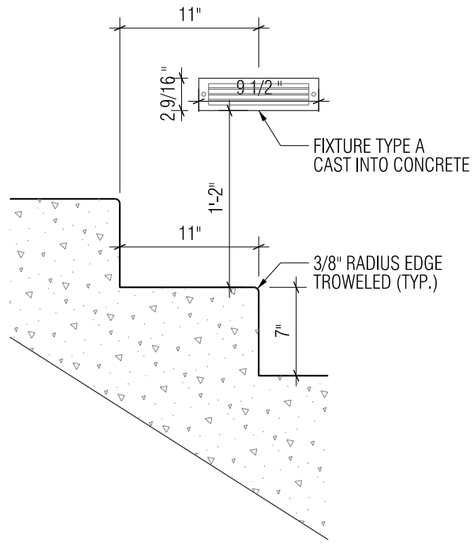
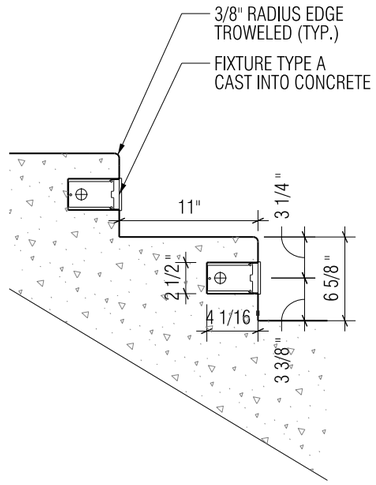
CONCRETE SLAB DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

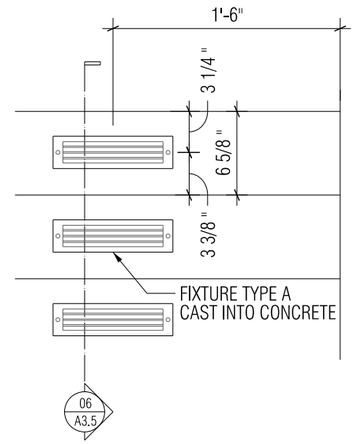
A3.4



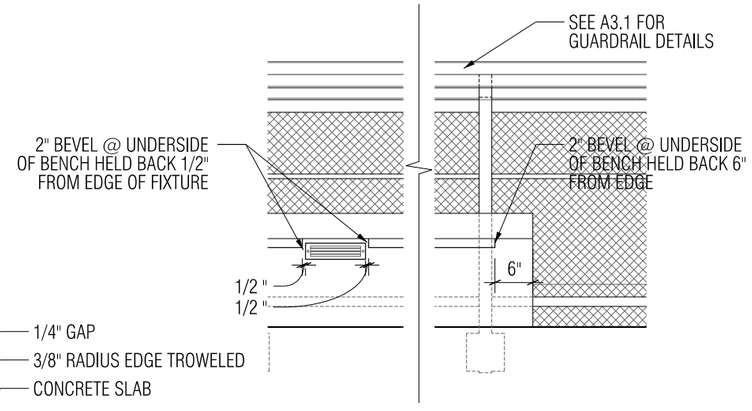
07 STAIR DETAIL @ WEST STAIRWAY (TYP.)
SCALE: 1"=1'-0"



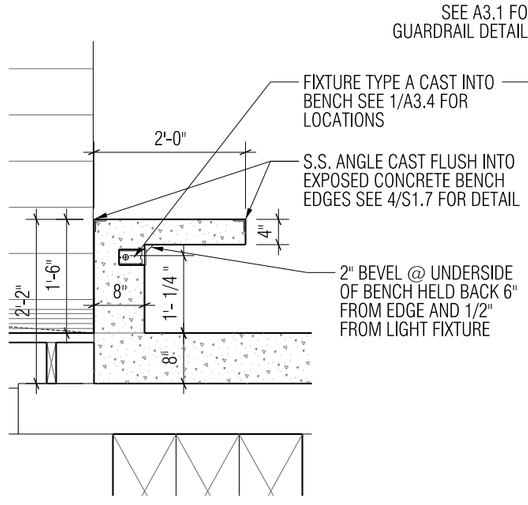
06 STAIR DETAIL @ EAST STAIRWAY (TYP.)
SCALE: 1"=1'-0"



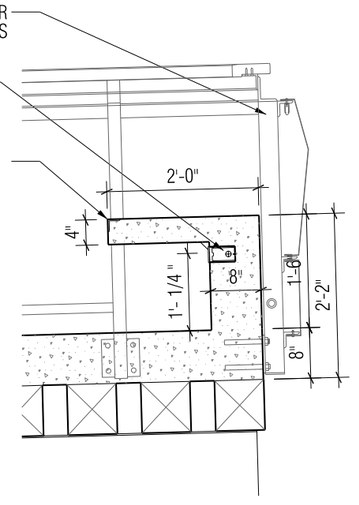
05 STAIR ELEVATION @ EAST STAIRWAY (TYP.)
SCALE: 1"=1'-0"



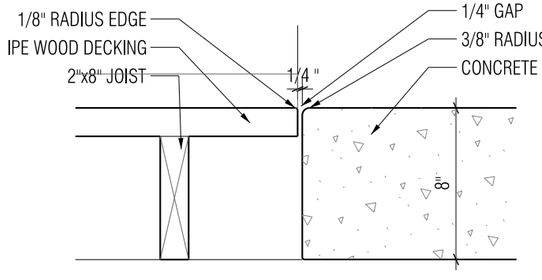
03 ELEVATION @ TRESTLE BENCH
SCALE: 1/2"=1'-0"



02 BENCH DETAIL @ WOOD DECKING
SCALE: 1/2"=1'-0"



01 BENCH DETAIL @ GUARDRAIL
SCALE: 1/2"=1'-0"



04 DETAIL @ CONCRETE / WOOD JOINT
SCALE: 1 1/2"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING REINFORCEMENT LOCATIONS
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIXTURE WIRING AND POWER SUPPLIES

TRESTLE CONNECTION

LA DALLMAN ARCHITECTS *Inc*
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS

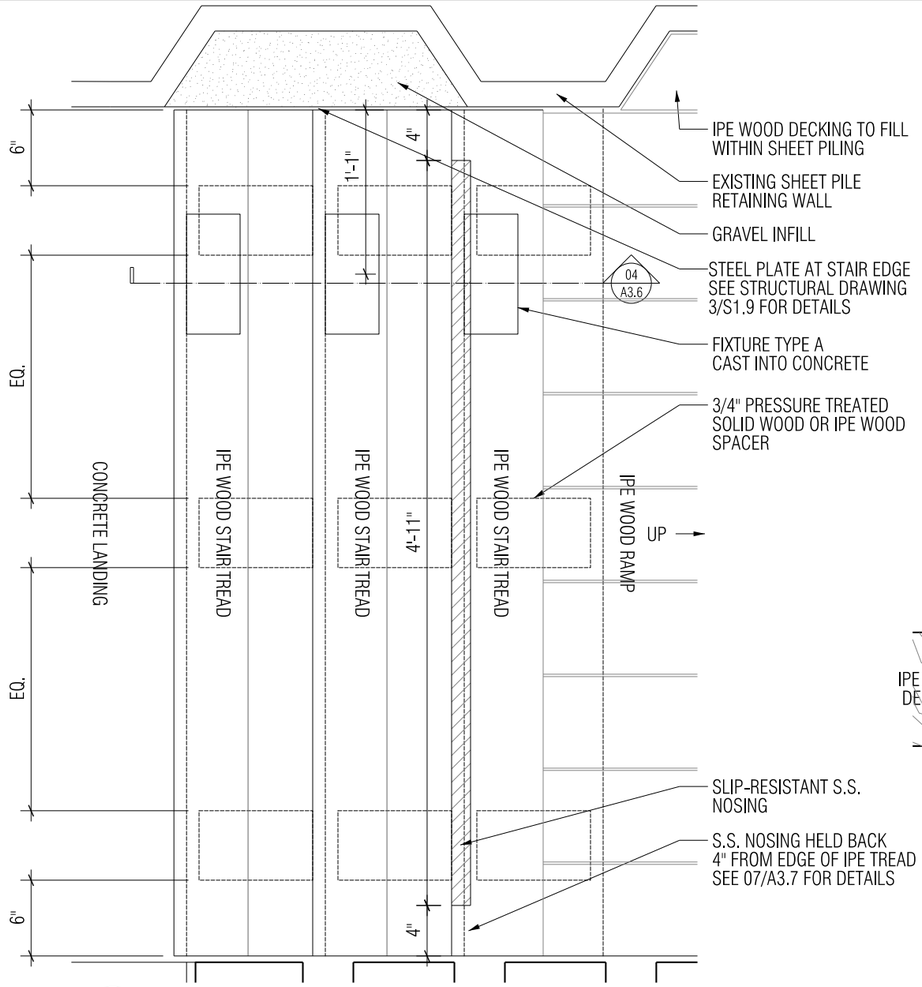
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

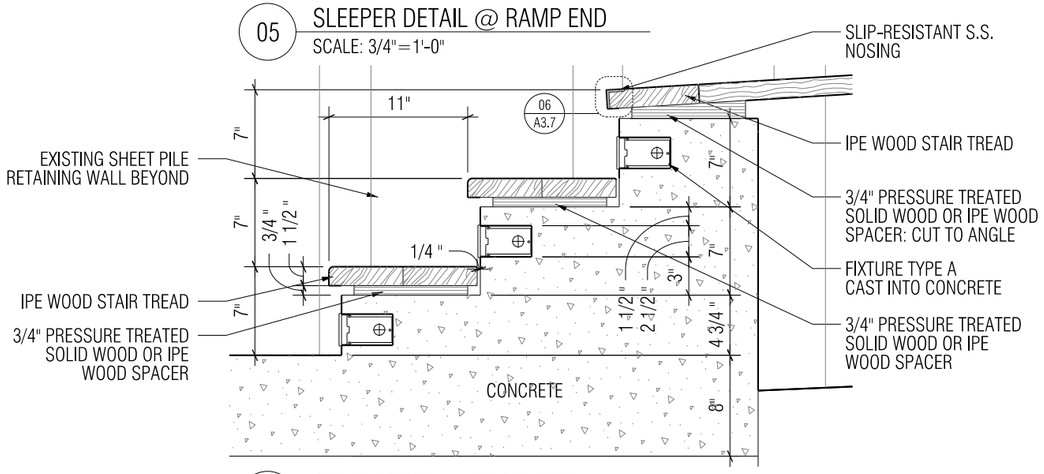
CONCRETE DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

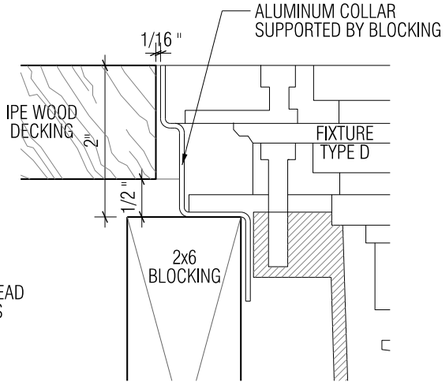
A3.5



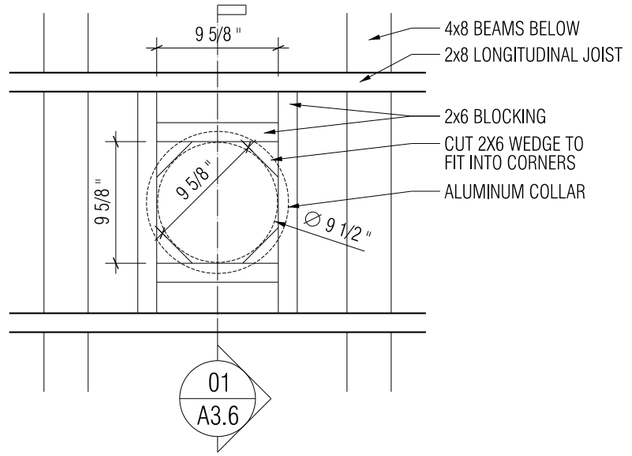
05 SLEEPER DETAIL @ RAMP END
SCALE: 3/4"=1'-0"



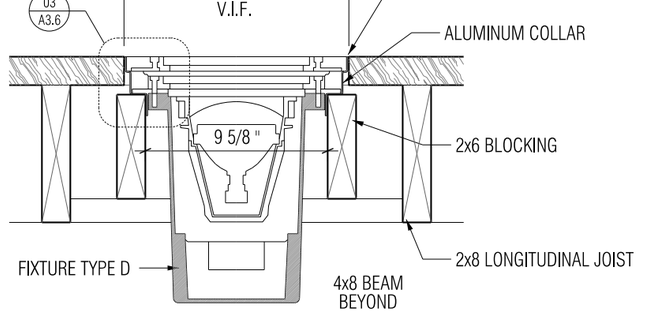
04 STAIR DETAIL @ RAMP END
SCALE: 3/4"=1'-0"



03 DETAIL @ COLLAR
SCALE: 6"=1'-0"



02 PLAN DETAIL @ FIXTURE TYPE D
SCALE: 1"=1'-0"



01 DETAIL @ FIXTURE TYPE D
SCALE: 1 1/2"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIXTURE WIRING AND POWER SUPPLIES

TRESTLE CONNECTION

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225 E. St. Paul Ave. Suite 302
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REVISIONS

NO.	DATE	DESCRIPTION

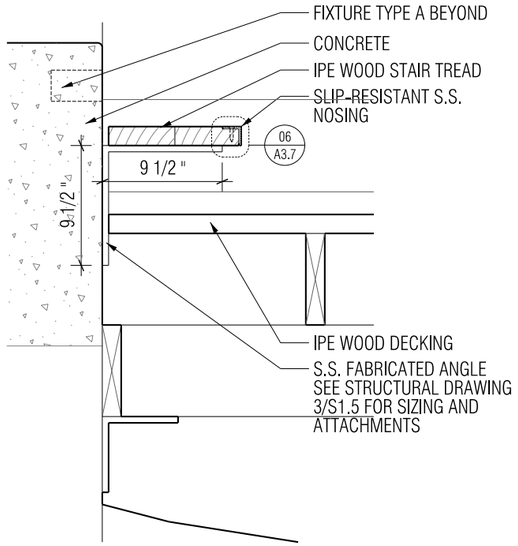
CONSTRUCTION DOCUMENTS

WOOD DETAILS

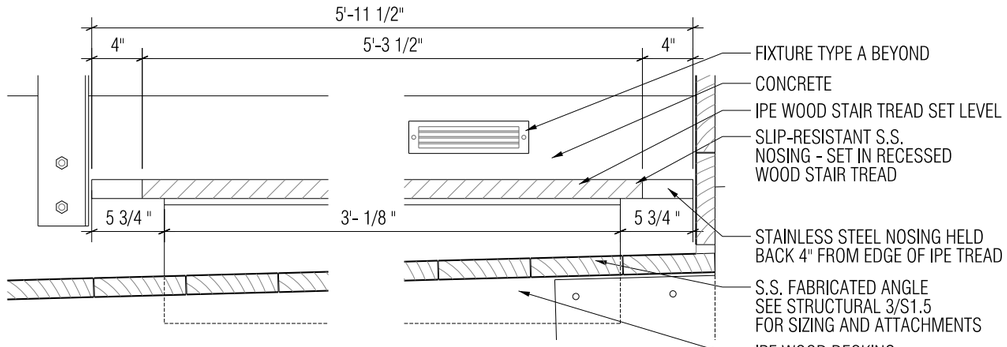
DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

A3.6

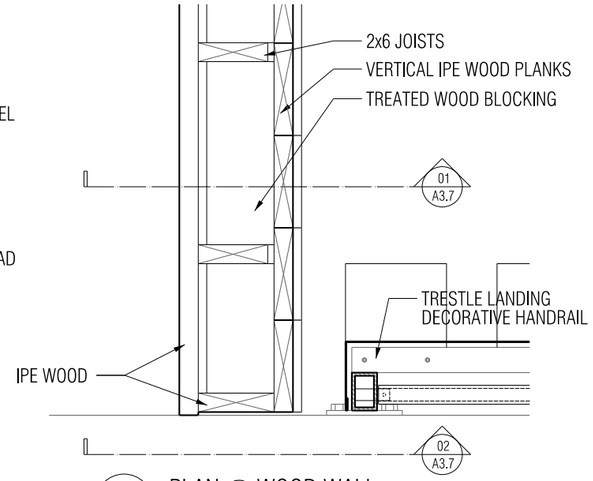
TRESTLE CONNECTION



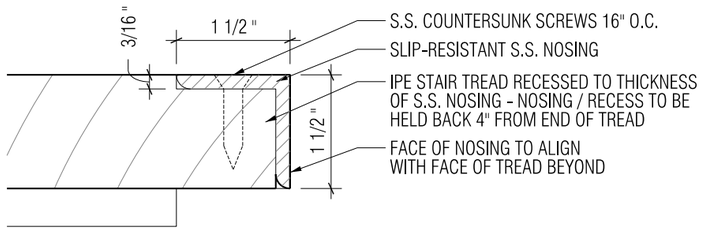
05 SECTION @ IPE STAIR TREAD
SCALE: 1"=1'-0"



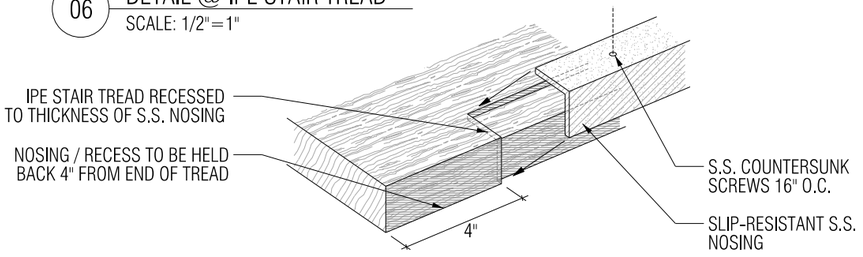
04 ELEVATION @ IPE STAIR TREAD
SCALE: 1"=1'-0"



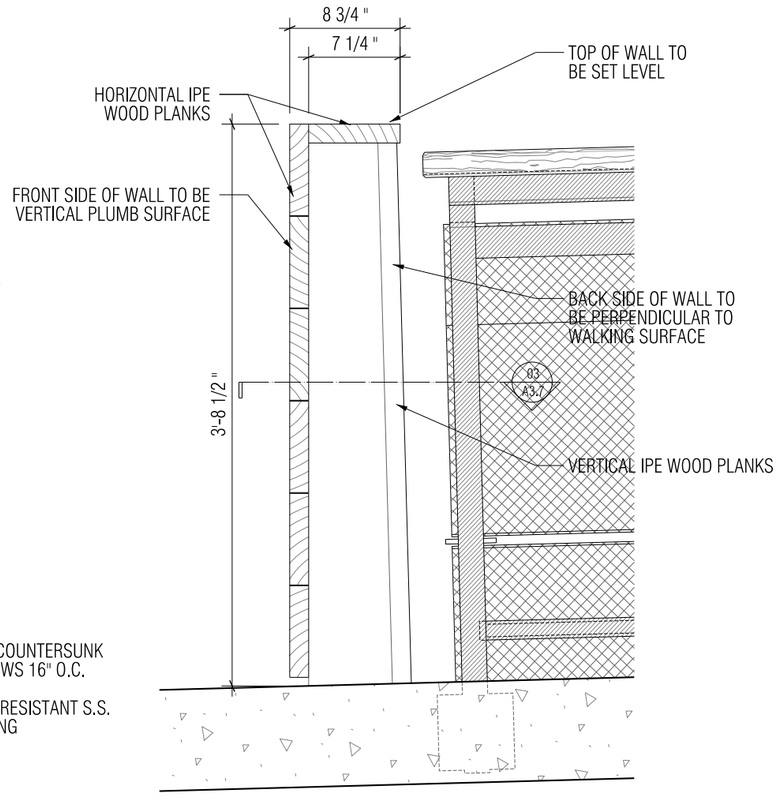
03 PLAN @ WOOD WALL
SCALE: 1"=1'-0"



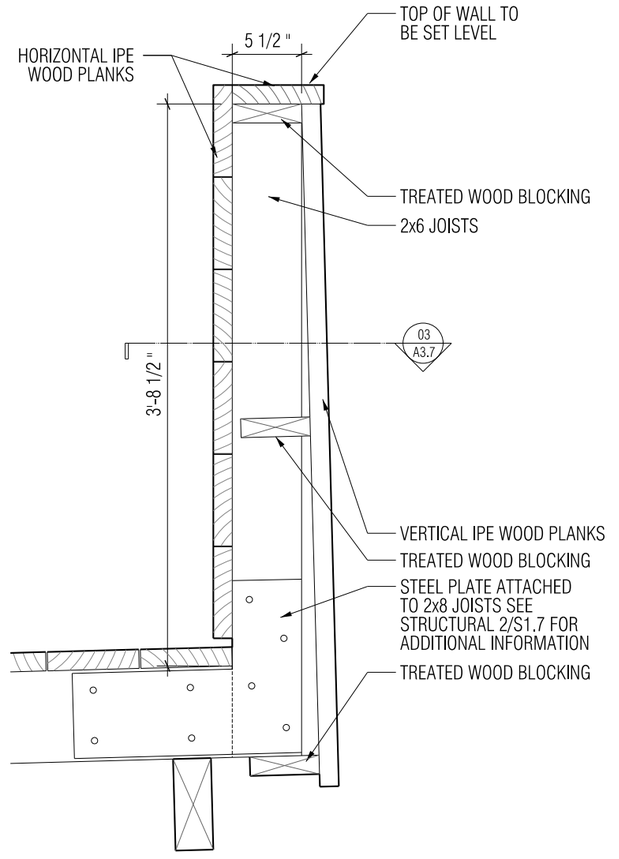
06 DETAIL @ IPE STAIR TREAD
SCALE: 1/2"=1"



07 DETAIL @ STAIR TREAD CORNER
SCALE: NTS



02 ELEVATION @ WOOD WALL
SCALE: 1"=1'-0"



01 SECTION @ WOOD WALL
SCALE: 1"=1'-0"

GENERAL NOTES
- SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FASTENERS AND STRUCTURAL SIZING
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING FIXTURE WIRING AND POWER SUPPLIES

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REVISIONS

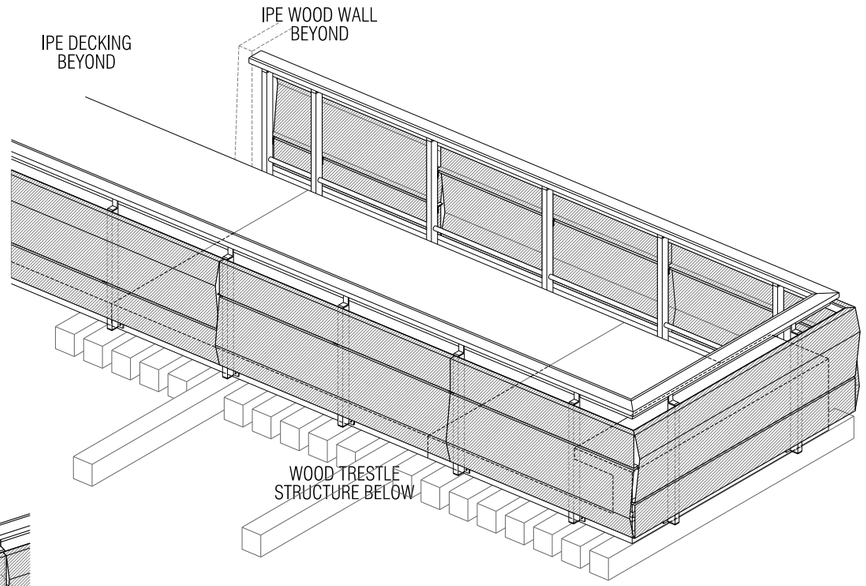
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

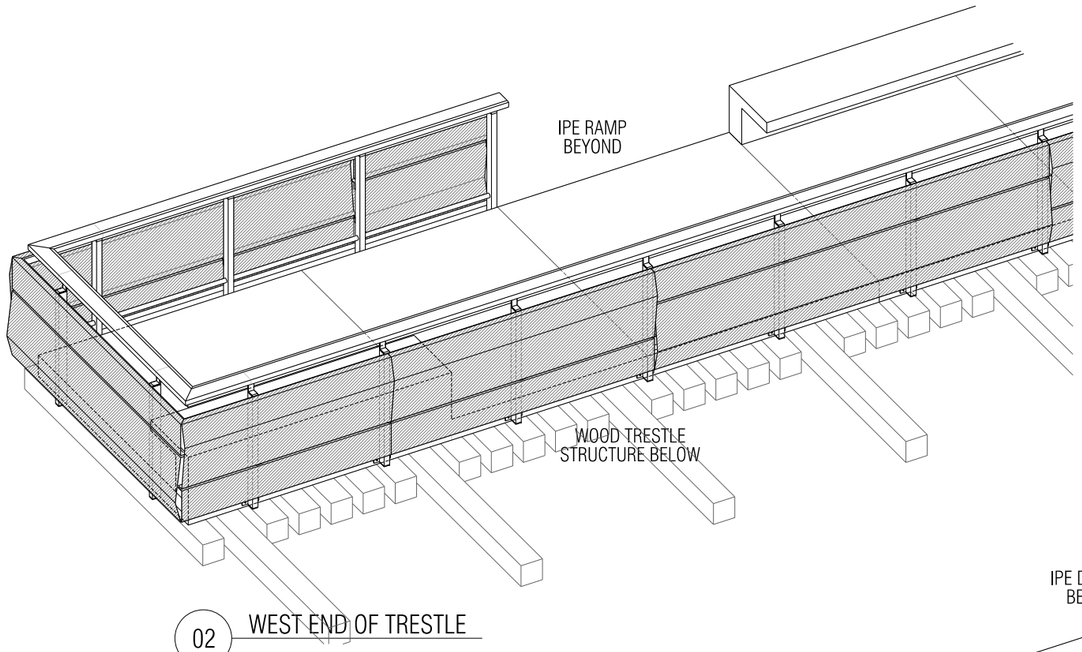
WOOD DETAILS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	VARIOUS

A3.7



03 EAST END OF TRESTLE



02 WEST END OF TRESTLE

01 AXON AT TRESTLE LANDING

GENERAL NOTE

- DRAWINGS ARE DIAGRAMS ONLY, TO DESCRIBE PANEL GEOMETRY AND CONTINUITY OF CREASES FROM PANEL TO PANEL
- ARCHITECT WILL PROVIDE DIGITAL 3-D MODEL OF PANEL PATTERN UPON REQUEST

TRESTLE CONNECTION

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REVISIONS

NO.	DATE	DESCRIPTION

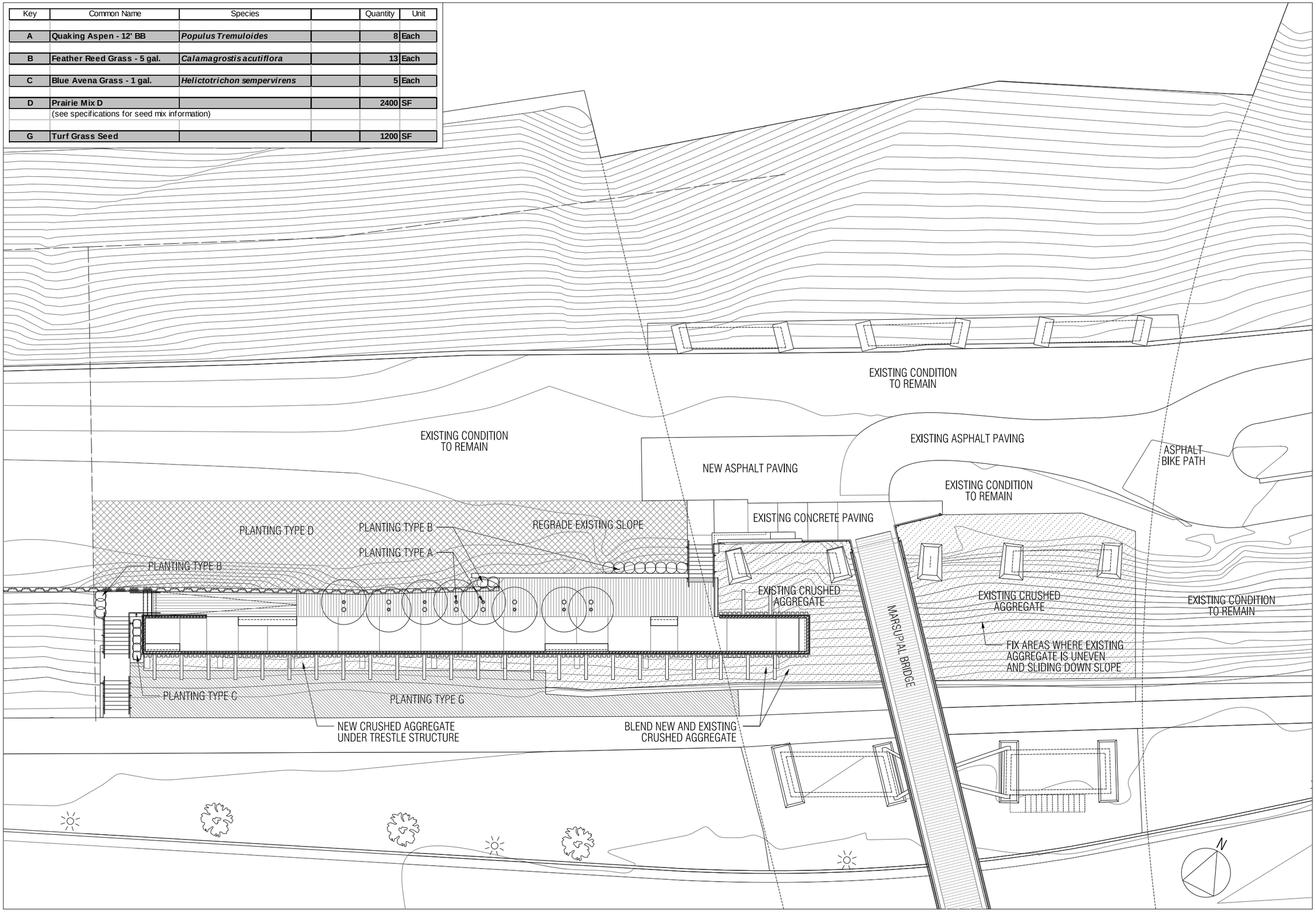
CONSTRUCTION DOCUMENTS

GUARDRAIL DIAGRAMS

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	NTS

A3.8

Key	Common Name	Species		Quantity	Unit
A	Quaking Aspen - 12' BB	*Populus Tremuloides*		8	Each
B	Feather Reed Grass - 5 gal.	*Calamagrostis acutiflora*		13	Each
C	Blue Avena Grass - 1 gal.	*Helictotrichon sempervirens*		5	Each
D	Prairie Mix D			2400	SF
	(see specifications for seed mix information)				
G	Turf Grass Seed			1200	SF



TRESTLE CONNECTION

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Milwaukee, WI 53202
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REVISIONS

NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

LANDSCAPE PLAN

DRAWN BY	BJT
CHECKED BY	JTD
PROJECT NO.	0709
DATE	05.30.2012
SCALE	1" = 20'

A4.0

ELECTRICAL - ESTIMATED QUANTITIES SCHEDULE

BID ITEM NUMBER	ITEM DESCRIPTION	UNITS	QUANTITY
SPV.0060.06	RECESSED BENCH AND STEP LIGHT LUMINAIRE - TYPE A (LED STEP LIGHT)	EACH	26
SPV.0060.08	RECESSED TREE UPLIGHT LUMINAIRE - TYPE D (IN GRADE UP-LIGHT)	EACH	8
SPV.0060.09	LIGHTING CONTROL CABINET	EACH	1
SPV.0060.10	IN-GRADE LIGHTING PULL BOX	EACH	3
652.0201	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 3/4" TRADE SIZE	LINEAR FT	785
652.0202	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 1 1/2" TRADE SIZE	LINEAR FT	8
655.0601	ELECTRICAL WIRE, LIGHTING - #12 AWG (TYPE XHHW)	LINEAR FT	1600

PANEL "A"

100 AMPS MAIN CIRCUIT BREAKER | 120/240 VOLT, SINGLE PHASE, THREE WIRE | LOCATION: LIGHTING CONTROL CABINET

MOUNTING TYPE: SURFACE IN CABINET | SHORT CIRCUIT INTERRUPTING RATING: 22 K.A.I.C

CIRCUIT BKR. AMPS	CIRCUIT BKR. POLES	LOAD DESCRIPTION	LOAD TYPE	CIRCUIT WATTS	CIRCUIT #	PHASE LOADS A	PHASE LOADS B	CIRCUIT #	CIRCUIT WATTS	LOAD TYPE	LOAD DESCRIPTION	CIRCUIT BKR. AMPS	CIRCUIT BKR. POLES
15	2	TRESTLE LIGHTING CIRCUIT #1	L	450	1	450		2			SPACE ONLY		1
			L	450	3		450	4			SPACE ONLY		1
15	2	GUARD RAIL LIGHTING CIRCUIT #2 (ADD ALTERNATE #1)	L	450	5	450		6			SPACE ONLY		1
			L	450	7		450	8			SPACE ONLY		1
15	1	CONTACTOR/TIMECLOCK CKT	E	200	9	200		10			SPACE ONLY		1
15	1	SPARE			11		0	12			SPACE ONLY		1
15	1	SPARE			13	0		14			SPACE ONLY		1
15	1	SPARE			15		0	16			SPACE ONLY		1
30	2	TVSS DEVICE	E		17	0		18			SPACE ONLY		1
			E		19		0	20			SPACE ONLY		1
						1100	900				PANEL TOTAL LOAD =	2.0	KW
												8.3	AMP

NOTES:

1) PANEL SHALL BE RATED FOR USE AS SERVICE ENTRANCE EQUIPMENT
2) PROVIDE CIRCUIT BREAKER QUANTITIES AS SHOWN ON THIS SCHEDULE
3) PANEL TO BE LOCATED WITHIN THE "LIGHTING CONTROL CABINET" ASSEMBLY AS DETAILED ON THE DRAWINGS. REFER TO DETAIL ON SHEET E1.5
4) CIRCUIT #5/7 FOR THE GUARD RAIL LIGHTING SHALL BE FURNISHED ONLY UNDER ADD ALTERNATE #1. BREAKER TO BE A "SPARE" UNDER BASE BID

GENERAL ELECTRICAL NOTES:

1. ALL NEW CONDUIT INSTALLED BELOW GRADE, CONCEALED IN THE CONCRETE BENCHES OR INSTALLED WITHIN CONCRETE SHALL BE SCHEDULE 80 NON-METALLIC PVC CONDUIT.
2. ALL NEW CONDUITS INSTALLED ABOVE GRADE OR EXPOSED TO WEATHER (IF ANY) SHALL BE RIGID STEEL CONDUIT. THE USE OF ABOVE GRADE CONDUITS SHALL BE MINIMIZED AS MUCH AS POSSIBLE.
3. ALL NEW CONDUITS INSTALLED BELOW THE NEW TRESTLE CONNECTOR PLATFORM SHALL BE INTERMEDIATE METALLIC CONDUIT (IMC) OR RIGID STEEL (RGS) CONDUIT.
4. ALL FINAL CONNECTIONS FROM JUNCTION BOXES TO LUMINAIRES OR LED DRIVERS SHALL BE DONE WITH #12 AWG WIRING IN FLEXIBLE LIQUIDTIGHT CONDUIT OR WITH SCHEDULE 80 NON-METALLIC PVC CONDUIT, AS APPROPRIATE FOR THE INSTALLATION LOCATION.
5. ALL NEW WIRING INSTALLED AS PART OF THIS PROJECT SHALL BE TYPE "XHHW-2" FOR UNDERGROUND OR OUTDOOR INSTALLATIONS. SOLID COPPER CONDUCTORS.
6. WIRING FOR LOW-VOLTAGE DC CABLING (FOR LED LUMINARIES) SHALL BE #14 AWG MINIMUM. SIZE ALL LOW-VOLTAGE DC CABLING AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER.
7. ALL EXPOSED CONDUIT AND JUNCTION BOXES SHALL BE PRIMED AND PAINTED TO MATCH THE EXISTING STRUCTURE COLOR. THE INTENT IS TO CONCEAL CONDUIT FROM VIEW TO THE EXTENT POSSIBLE.
8. ALL NUTS, BOLTS, UNINSTRUCTED, THREADED RODS, UNISTRUT STRAPS, ANCHORS AND ROD COUPLINGS SHALL BE STAINLESS STEEL.
9. ALL CONDUITS INSTALLED BELOW GRADE SHALL BE INSTALLED AT A DEPTH NO LESS THAN 24" BELOW FINISHED GRADE.
10. INSTALL EXPANSION FITTINGS FOR ANY RIGID CONDUIT INSTALLATIONS THAT EXCEED 25-FEET AND INSTALLED IN AREAS LOCATED EXPOSED TO WEATHER.

PROJECT SCOPE NOTES:

A. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT MOUNTING LOCATION OF ALL LIGHTING LUMINAIRES INSTALLED DURING THIS PROJECT.

B. ALL LIGHTING LUMINAIRES ARE TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. PROVIDE ALL ACCESSORIES FOR EACH LUMINAIRE AS REQUIRED FOR A COMPLETE INSTALLATION.

C. ALL LUMINAIRES INSTALLED AS PART OF THIS PROJECT SHALL BE WIRED TO TWO (2) 240-VOLT LIGHTING CIRCUITS FURNISHED FROM THE NEW LIGHTING PANEL "A" INSTALLED IN THE NEW LIGHTING CONTROL CABINET ENCLOSURE. REFER TO SHEET E1.0 FOR LOCATION.

D. PROVIDE A NEW 100-AMPERE, 120/240-VOLT, 1-PHASE, 3-WIRE ELECTRICAL SERVICE FROM WE ENERGIES. THE MAIN CONTACT AT WE ENERGIES FOR THIS PROJECT SHALL BE JIM WARD AT TELEPHONE (414) 449-3013, EMAIL ADDRESS: jim.ward@we-energies.com

E. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL NEW LIGHTING LUMINAIRES AS SHOWN IN THIS DRAWING SET. THAT SHALL INCLUDE ALL REQUIRED RACEWAYS, BOXES, WIRING, ETC. FOR A COMPLETE INSTALLATION.

F. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF PAVED SURFACES (ASPHALT OR CONCRETE) AS REQUIRED TO COMPLETE THE INSTALLATION WORK AS SHOWN IN THIS DRAWING SET.

TRESTLE CONNECTION

LA DALLMAN ARCHITECTS Inc
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS

NO. DATE DESCRIPTION

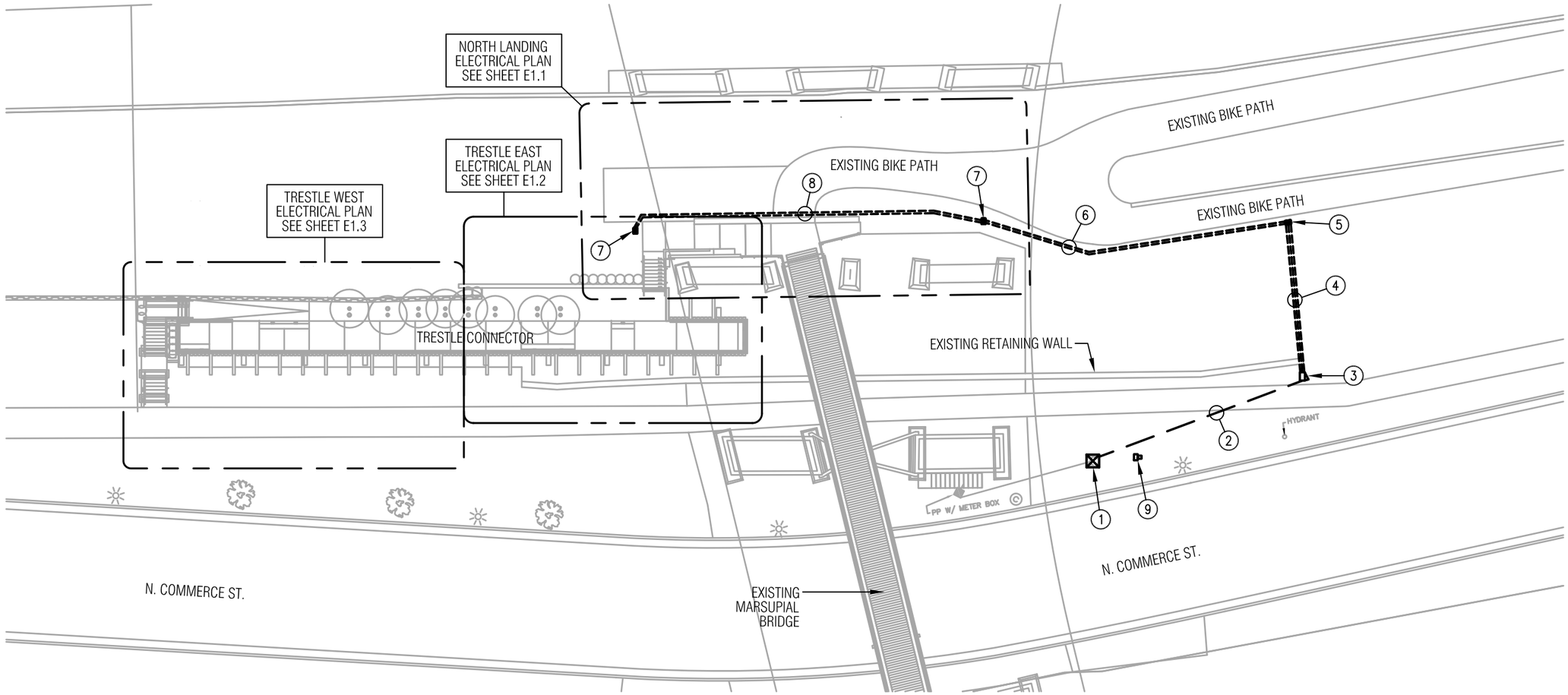
THE MATRIX GROUP ENGINEERING CONSULTANTS
311 EAST CHICAGO STREET, SUITE 310, MILWAUKEE, WI 53202
PHONE: (414) 329-2827 FAX: (414) 329-2820

CONSTRUCTION DOCUMENTS

ELECTRICAL NOTES AND SCHEDULES

DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1" = 60'-0"

E0.0



ELECTRICAL KEYED NOTES

1. EXISTING WE ENERGIES TRANSFORMER TO BE USED FOR NEW ELECTRICAL SERVICE CABINET ENCLOSURE FOR TRESTLE LIGHTING CIRCUITS. COORDINATE NEW ELECTRICAL SERVICE WITH WE ENERGIES AS REQUIRED.

2. SERVICE LATERAL CONDUCTORS FROM TRANSFORMER TO METERING PEDESTAL AT LIGHTING CONTROL CABINET ENCLOSURE TO BE FURNISHED AND INSTALLED BY WE ENERGIES AS PART OF ELECTRICAL SERVICE INSTALLATION. COORDINATE IN FIELD WITH WE ENERGIES AS REQUIRED. PROVIDE A 1 1/2" SCHEDULE 80 PVC CONDUIT STUB 5–FEET FROM SERVICE ENCLOSURE CONCRETE PAD FOR USE BY WE ENERGIES FOR CABLING SERVICE ENTRANCE INTO LIGHTING CONTROL CABINET.

3. ELECTRICAL LIGHTING CONTROL CABINET ENCLOSURE THAT CONTAINS PANEL "A" AND CONTROLS (CONTACTOR/TIMECLOCK) TO SERVE THE LIGHTING ON THIS PROJECT. ALL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AS PART OF LIGHTING CONTROL CABINET. REFER TO THE SPECIFICATIONS AND SHEET E1.5 FOR A MORE DETAILED VIEW OF LIGHTING CONTROL CABINET.

4. PROVIDE THREE (3) 3/4" SCHEDULE 80 PVC CONDUITS AT +24" BELOW FINISHED GRADE FOR SECONDARY CONDUCTORS TO LIGHTING LUMINAIRES ON THE NORTH LANDING AND TRESTLE PLAZA. ROUTE CONDUITS UP SLOPE LOCATED TO WEST OF SERVICE CABINET TO THE IN–GRADE QUAZITE PULL BOX LOCATED ON GRADE LEVEL WITH BIKE PATH. CONDUITS TO PROVIDE CABLING FOR THIS PROJECT AND FUTURE CABLING PATHWAY FOR ANY POTENTIAL FUTURE LIGHTING CIRCUITS ON THIS LEVEL FROM THE SERVICE CABINET BEING INSTALLED AS PART OF THIS PROJECT.

5. PROVIDE A 10"x15" LIGHTING QUAZITE PULLBOX IN–GRADE ENCLOSURE AT TOP OF HILL NEAR EXISTING BIKE PATH. FIELD VERIFY EXACT LOCATION. REFER TO SHEET E1.5 FOR "QUAZITE PULLBOX DETAIL"

6. PROVIDE TWO (2) 3/4" SCHEDULE 80 PVC CONDUITS AT 24" BELOW GRADE FOR LIGHTING CIRCUITS TO THE NORTH LANDING AREA AND TRESTLE LIGHTING AS SHOWN IN THIS DRAWING SET.

7. PROVIDE A 10"x15" LIGHTING QUAZITE PULLBOX IN–GRADE ENCLOSURE ON EACH SIDE OF NORTH LANDING AREA WITHIN A NON–PAVED AREA AS SHOWN. FIELD VERIFY EXACT FINAL LOCATION.

8. PROVIDE TWO (2) 3/4" SCHEDULE 80 PVC CONDUITS AT 24" BELOW GRADE ACROSS THE NORTH LANDING PLAZA. ONE FOR CURRENT PROJECT AND ONE SPARE FOR FUTURE USE. CONDUITS TO BE RUN IN AREAS WITH NEW PAVING AS PART OF THIS PROJECT. DO NOT CROSS AREAS WHERE EXISTING PAVING SHALL REMAIN. COORDINATE WITH ARCHITECTURAL DRAWINGS A1.3 FOR LOCATIONS OF EXISTING AND NEW PAVED SURFACES IN THIS AREA. ALL NEW LIGHTING CIRCUITS TO BE FED FROM THESE PULLBOX LOCATIONS. REFER TO ELECTRICAL SHEETS E1.1 THRU E1.3 FOR MORE INFORMATION.

9. EXISTING ELECTRICAL METERING PEDESTAL AND TELEPHONE PEDESTAL TO REMAIN AS IS. THESE DEVICES ARE NOT ASSOCIATED WITH THIS PROJECT.

N

TRESTLE CONNECTION

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REVISIONS

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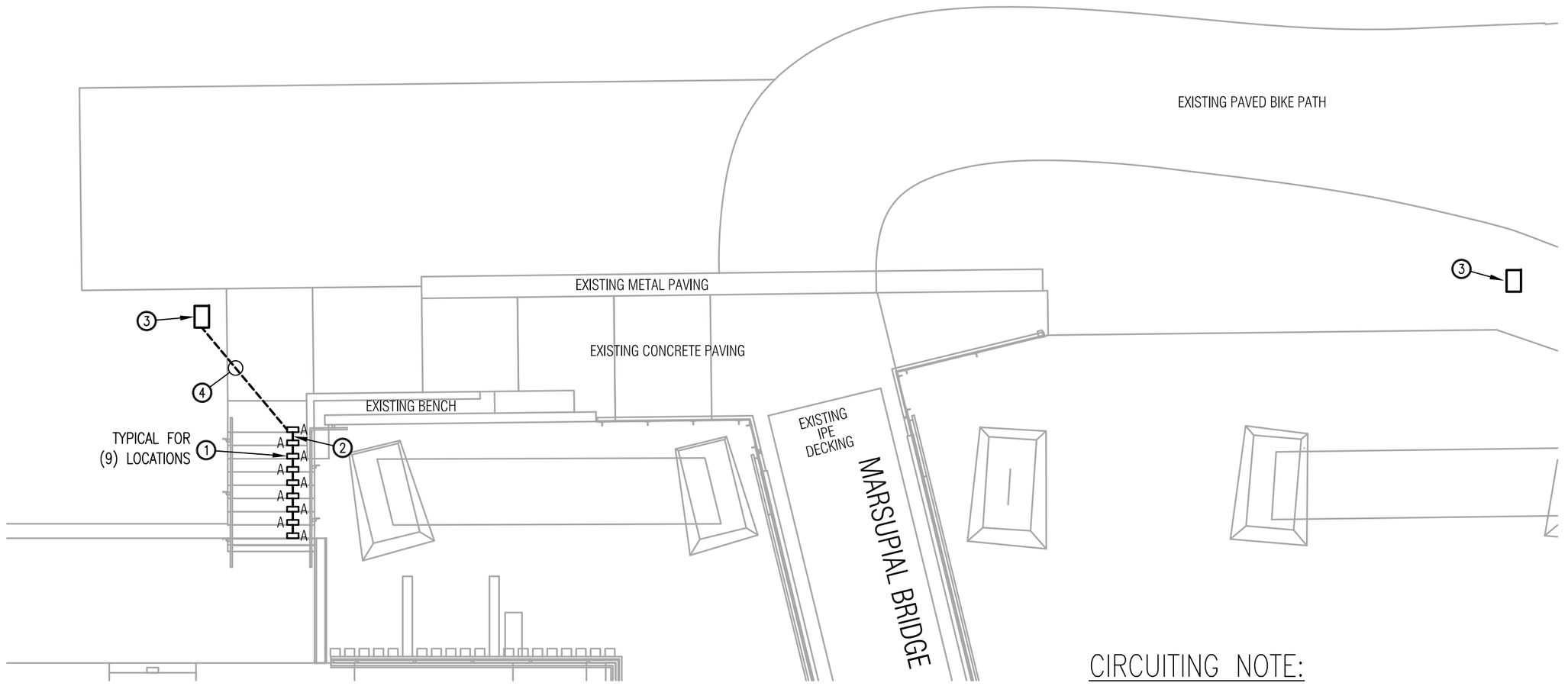
ENGINEERING CONSULTANTS
311 EAST CHICAGO STREET, SUITE 310, MILWAUKEE, WI 53202
PHONE: (414) 329-2827 FAX: (414) 329-2820

CONSTRUCTION DOCUMENTS

OVERALL SITE PLAN - ELECTRICAL

DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1" = 30'-0"

E1.0



CIRCUITING NOTE:

1. ALL LUMINAIRES ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUITS 1/3 WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.

ELECTRICAL KEYED NOTES

1. TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" SCHEDULE 80 PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.
2. PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE STEPS FROM LUMINAIRE TO LUMINAIRE AS SHOWN.
3. NEW LIGHTING PULLBOX LOCATED IN-GRADE ON EACH SIZE OF PLAZA.
4. PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT AT 18" BELOW FINISHED GRADE FROM LOCATION TO LOCATION AS SHOWN.
5. PROVIDE A 3/4" SCHEDULE 80 PVC CONDUIT WITHIN CONCRETE BENCH FROM LUMINAIRE TO LUMINAIRE AS SHOWN.

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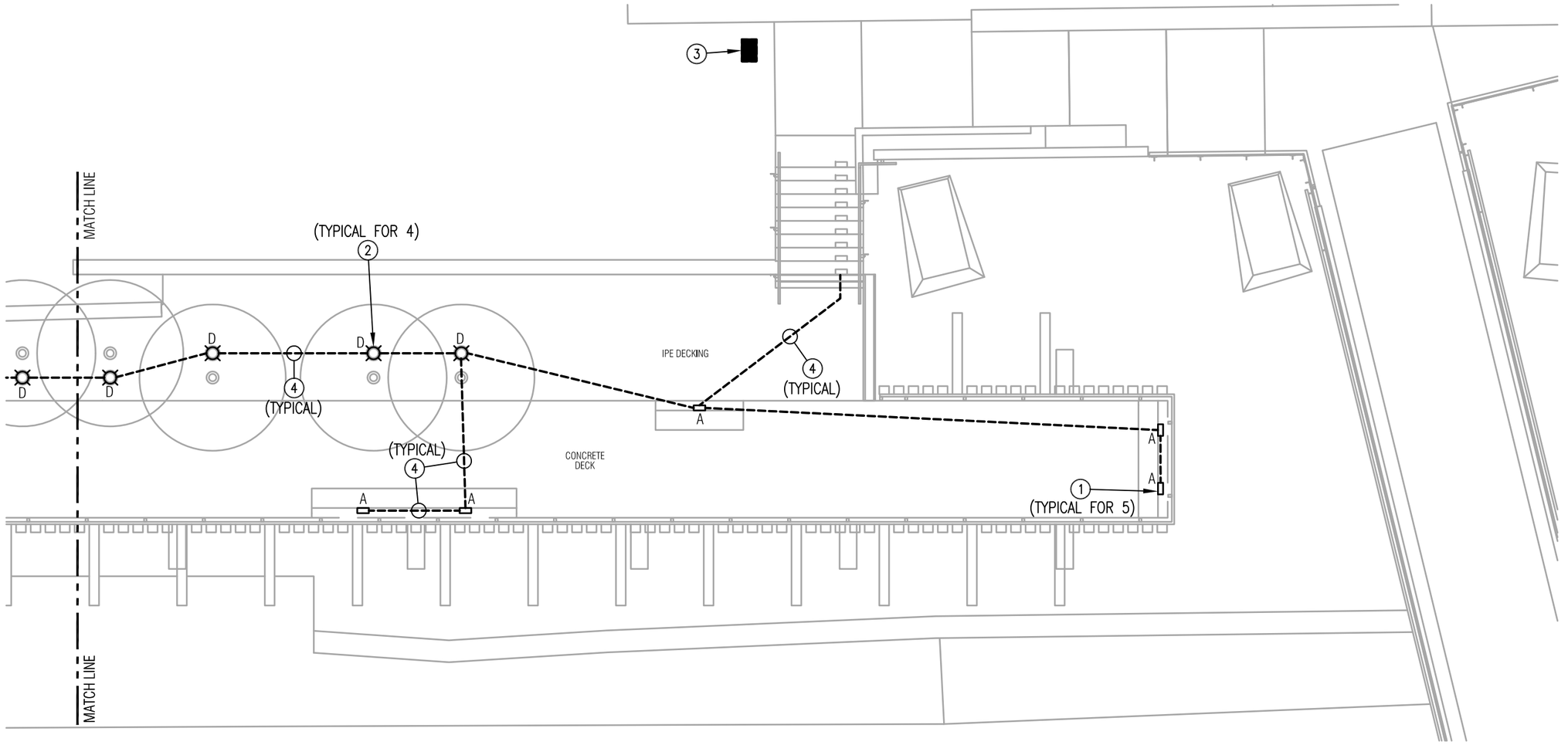
CONSTRUCTION DOCUMENTS

NORTH LANDING -
ELECTRICAL PLAN

DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1/8" = 1'-0"

E1.1



GENERAL NOTES:

1. ALL LUMINAIRES (TYPE A, TYPE D) ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUIT 1/3 (240–VOLT) WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.

2. THE LOCATION AND INSTALLATION INFORMATION FOR THE ADD ALTERNATE GUARDRAIL LIGHT FIXTURE (TYPE E – SPV.0090.01) IS SHOWN IS INDICATED ON SHEET E1.4

ELECTRICAL KEYED NOTES

(1) TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.

(2) TYPE "D" LUMINAIRES – RECESSED IN–GRADE UPLIGHT WITH COOL TOUCH LENS. MOUNT FIXTURE HOUSING THROUGH IPE DECKING MATERIAL. SUPPORT HOUSING BELOW DECK AS REQUIRED TO MAINTAIN A RIGID INSTALLATION AND PREVENT MOVEMENT. REFER TO ARCHITECTURAL DETAILS ON SHEET A3.6

(3) NEW LIGHTING PULL BOX LOCATED IN–GRADE ON EACH SIZE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.

(4) PROVIDE A 3/4" CONDUIT FROM LUMINAIRE TO LUMINAIRE AS SHOWN. CONDUIT TO BE RIGID STEEL CONDUIT WHEN EXPOSED. CONDUIT CAN BE PVC WHEN INSTALLED IN CONCRETE OR BELOW GRADE. ALL CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.

TRESTLE CONNECTION

LA DALLMAN ARCHITECTS *Inc*
225 E. St. Paul Ave. Suite 302
Milwaukee, WI 53202
414 225 7450
fax 225 7451

REVISIONS

NO.	DATE	DESCRIPTION

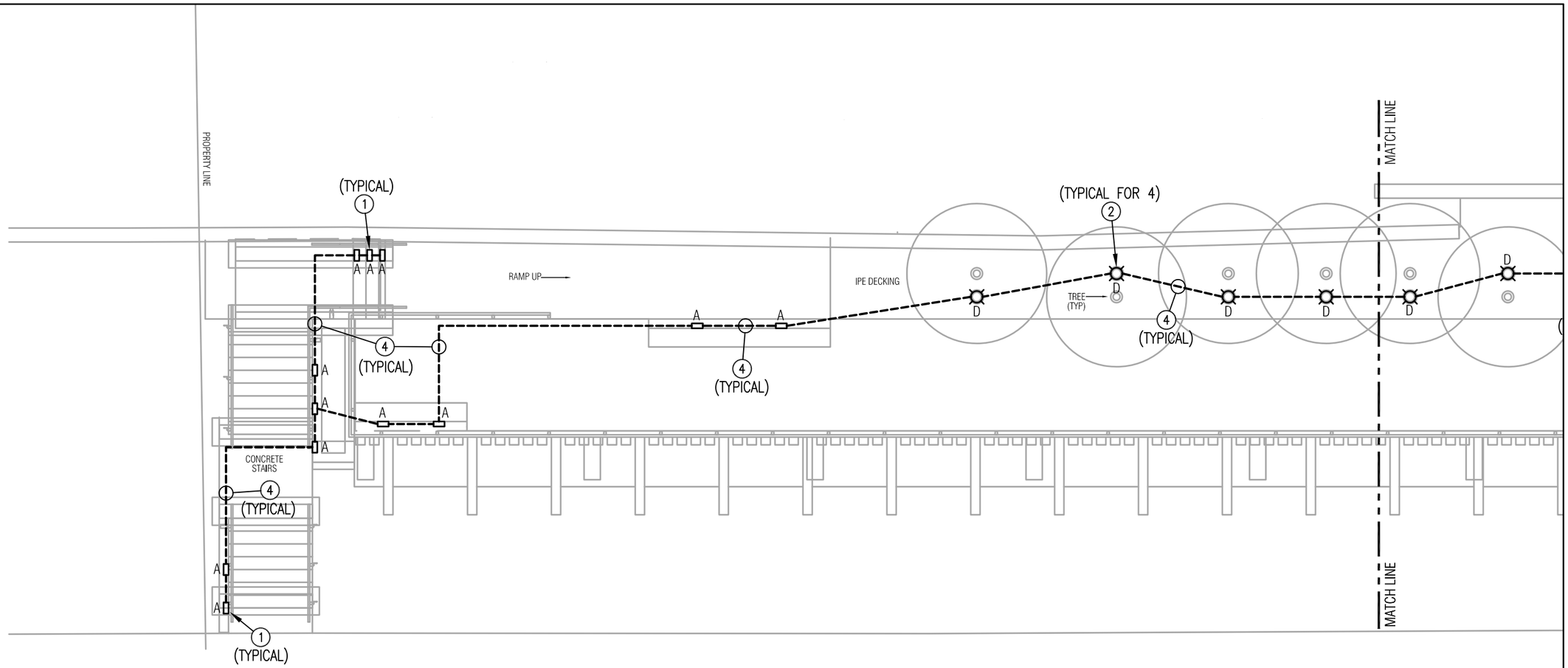
THE MATRIX GROUP
ENGINEERING CONSULTANTS
311 EAST CHICAGO STREET, SUITE 310, MILWAUKEE, WI 53202
PHONE: (414) 329-2827 FAX: (414) 329-2820

CONSTRUCTION DOCUMENTS

TRESTLE EAST -
ELECTRICAL PLAN

DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1/8" = 1'-0"

E1.2



GENERAL NOTES:

1. ALL LUMINAIRES (TYPE A, TYPE D) ON THIS SHEET SHALL BE WIRED TO PANEL "A", CIRCUIT 1/3 (240–VOLT) WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" SCHEDULE 80 PVC CONDUIT.

2. THE LOCATION AND INSTALLATION INFORMATION FOR THE ADD ALTERNATE GUARDRAIL LIGHT FIXTURE (TYPE E – SPV.0090.01) IS SHOWN IS INDICATED ON SHEET E1.4

ELECTRICAL KEYED NOTES:

(1) TYPE "A" LUMINAIRES ARE RECESSED LED STEP LIGHTS. INSTALL THE BACK HOUSING FURNISHED WITH FIXTURE IN CONCRETE PRIOR TO POUR. CONNECT FIXTURES WITH 3/4" PVC CONDUIT. LED DRIVERS ARE INTEGRAL TO THE FIXTURE.

(2) TYPE "D" LUMINAIRES – RECESSED IN–GRADE UPLIGHT WITH COOL TOUCH LENS. MOUNT FIXTURE HOUSING THROUGH IPE DECKING MATERIAL. SUPPORT HOUSING BELOW DECK AS REQUIRED TO MAINTAIN A RIGID INSTALLATION AND PREVENT MOVEMENT. REFER TO ARCHITECTURAL DETAILS ON SHEET A3.6

(3) NEW LIGHTING PULL BOX LOCATED IN–GRADE ON EACH SIZE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.

(4) PROVIDE A 3/4" CONDUIT FROM LUMINAIRE TO LUMINAIRE AS SHOWN. CONDUIT TO BE RIGID STEEL CONDUIT WHEN EXPOSED. CONDUIT CAN BE PVC WHEN INSTALLED IN CONCRETE OR BELOW GRADE. ALL CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.

TRESTLE CONNECTION

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414 225 7450
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REVISIONS

NO.	DATE	DESCRIPTION

THE MATRIX GROUP
ENGINEERING CONSULTANTS
311 EAST CHICAGO STREET, SUITE 310, MILWAUKEE, WI 53202
PHONE: (414) 329-2827 FAX: (414) 329-2820

CONSTRUCTION DOCUMENTS

TRESTLE WEST -
ELECTRICAL PLAN

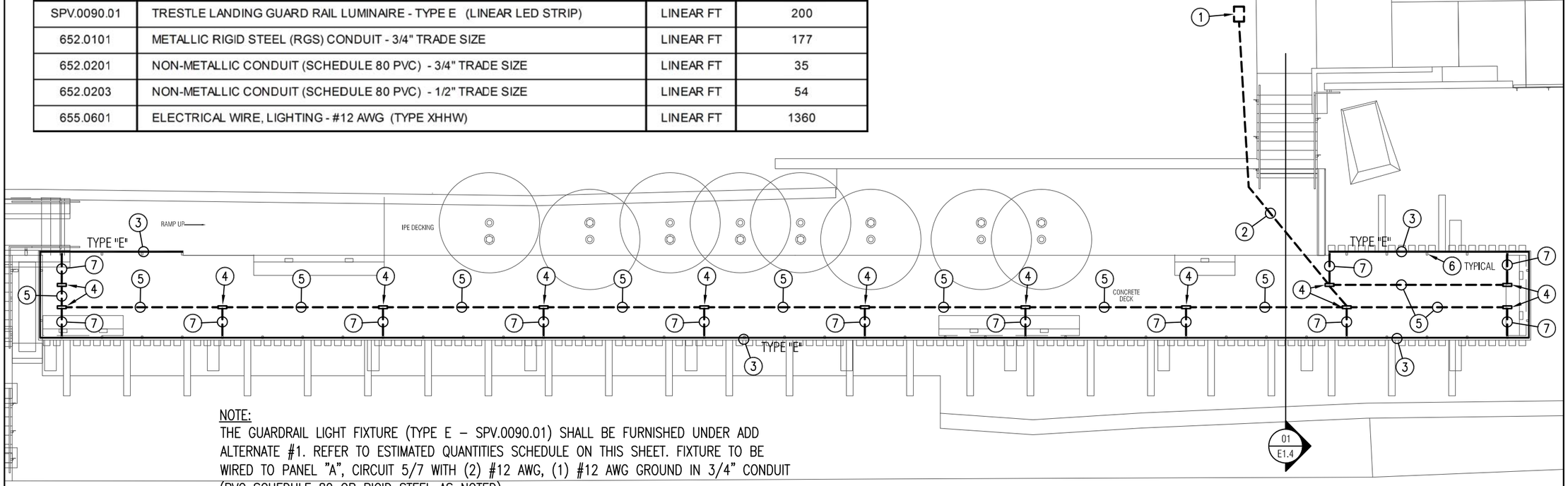
DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1/8" = 1'-0"

E1.3

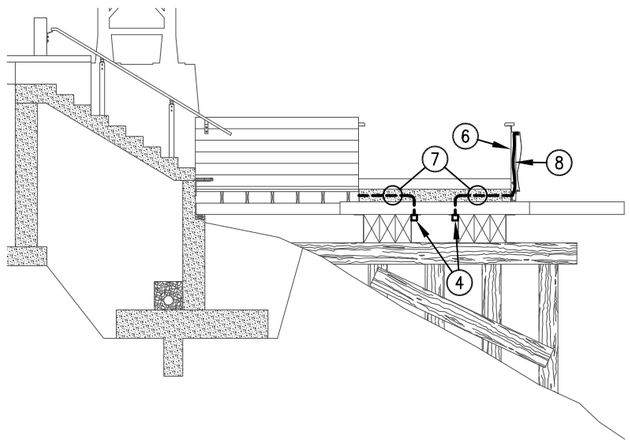
ELECTRICAL - ADD ALTERNATE #1
ESTIMATED QUANTITIES SCHEDULE

BID ITEM NUMBER	ITEM DESCRIPTION	UNITS	QUANTITY
SPV.0090.01	TRESTLE LANDING GUARD RAIL LUMINAIRE - TYPE E (LINEAR LED STRIP)	LINEAR FT	200
652.0101	METALLIC RIGID STEEL (RGS) CONDUIT - 3/4" TRADE SIZE	LINEAR FT	177
652.0201	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 3/4" TRADE SIZE	LINEAR FT	35
652.0203	NON-METALLIC CONDUIT (SCHEDULE 80 PVC) - 1/2" TRADE SIZE	LINEAR FT	54
655.0601	ELECTRICAL WIRE, LIGHTING - #12 AWG (TYPE XHHW)	LINEAR FT	1360

NOTE:
THE GUARDRAIL LIGHT FIXTURE (TYPE E – SPV.0090.01) SHALL BE A COMPLETE PACKAGE FURNISHED BY THE MANUFACTURER. THIS SHALL INCLUDE ALL LED SECTIONS, MOUNTING HARDWARE, POWER SUPPLIES AND 24–VOLT DC CABLING AS NEEDED FOR A COMPLETE INSTALLATION AS SHOWN ON THIS DRAWING. THE ELECTRICAL CONTRACTOR SHALL ONLY PROVIDE THE NECESSARY LABOR FOR THE SYSTEM INSTALLATION AS REQUIRED.



NOTE:
THE GUARDRAIL LIGHT FIXTURE (TYPE E – SPV.0090.01) SHALL BE FURNISHED UNDER ADD ALTERNATE #1. REFER TO ESTIMATED QUANTITIES SCHEDULE ON THIS SHEET. FIXTURE TO BE WIRED TO PANEL "A", CIRCUIT 5/7 WITH (2) #12 AWG, (1) #12 AWG GROUND IN 3/4" CONDUIT (PVC SCHEDULE 80 OR RIGID STEEL AS NOTED)



1 TRESTLE SECTION
SCALE: 1/8" = 1'–0"

ELECTRICAL KEYED NOTES

1. NEW LIGHTING PULL BOX LOCATED IN–GRADE ON EACH SIZE OF PLAZA. REFER TO SHEET E1.1 FOR MORE INFORMATION AND CONTINUATION OF ELECTRICAL RACEWAYS.
2. PROVIDE A 3/4" PVC CONDUIT AT +18" BELOW GRADE OR IN CONCRETE FROM PULL BOX TO FIRST LED POWER SUPPLY AS SHOWN.
3. TYPE "E" LUMINAIRES – CONTINUOUS LED STRIP LIGHT. TYPE "E" FIXTURE TO BE INSTALLED IN AT ANGLE PROVIDED WITH TRESTLE LANDING DECORATIVE HANDRAIL. REFER TO THE ARCHITECTURAL SECTION ON SHEET A3.1 FOR LOCATION. PROVIDE WIRING UP FROM POWER SUPPLY AT HANDRAILS AS NEEDED. CONCEAL ALL WIRING AS MUCH AS POSSIBLE.
4. POWER SUPPLY WITH LED DRIVERS FOR TYPE "E" LUMINAIRE. LOCATE POWER SUPPLY BELOW CONCRETE DECK AND TRESTLE TIES. REFER TO SECTION "01/E1.4" ON THIS SHEET FOR MORE INFORMATION. PROVIDE HARD WIRE CONNECTION TO POWER SUPPLY AS REQUIRED. MOUNT PERPENDICULAR TO POST LOCATION AS SHOWN TO MINIMIZE CABLE DISTANCE FOR 24–VOLT CABLING TO FIXTURE. (TYPICAL FOR 13 LOCATIONS).
5. PROVIDE A 3/4" RIGID STEEL CONDUIT BELOW NEW CONCRETE DECKING FROM POWER SUPPLY TO POWER SUPPLY AS SHOWN. CONDUIT TO BE PAINTED TO MATCH AS REQUIRED.
6. LOCATION OF A STEEL POST FOR GUARDRAIL TO BE USED FOR 24–VOLT DC CABLING UP TO LED FIXTURE. REFER TO SECTION "01/E1.4" ON THIS SHEET AND ARCHITECTURAL SHEETS A2.0, A2.1, A3.1 AND A3.2 FOR MORE ARCHECTURAL SECTIONS AND DETAILS. (TYPICAL)
7. PROVIDE A 1/2" PVC CONDUIT FROM POWER SUPPLY TO POST AS SHOWN FOR 24–VOLT CABLING PATHWAY. MOUNT CONDUIT WITHIN NEW CONCRETE SLAB AS SHOWN IN SECTION "01/E1.4" ON THIS SHEET. CONDUIT TO STUB INTO HOLLOW RECTANGULAR POST.
8. PROVIDE 24–VOLT CABLING FROM POWER SUPPLY TO TYPE "E" GUARDRAIL LIGHTING FIXTURE AS REQUIRED. CABLING TO BE WITHIN CONDUIT UP TO POST AND EXPOSED WITHIN HOLLOW RECTANGULAR POST UP TO FIXTURE AS SHOWN. (TYPICAL FOR 13 LOCATIONS).

TRESTLE CONNECTION

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414 225 7450
fax 225 7451

REVISIONS

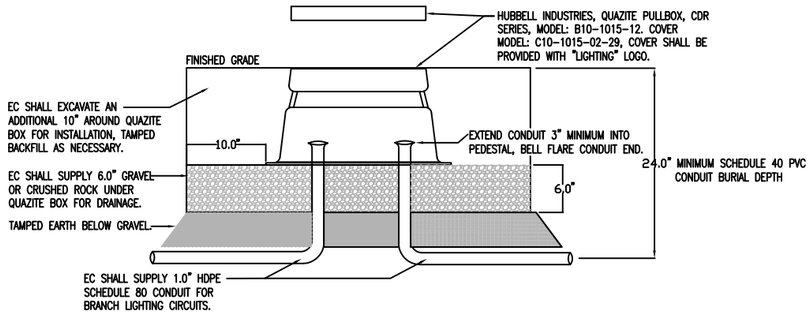
NO.	DATE	DESCRIPTION

CONSTRUCTION DOCUMENTS

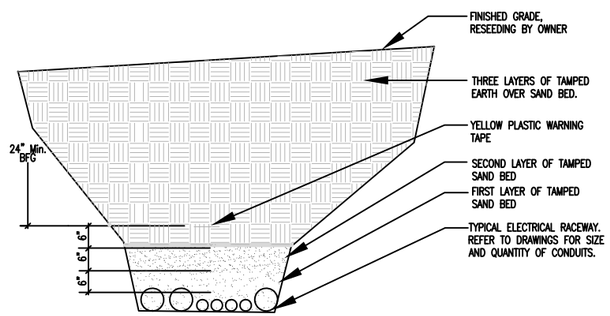
TRESTLE GUARDRAIL LIGHTING PLAN (ADD ALTERNATE #1)

DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	3/32" = 1'-0"

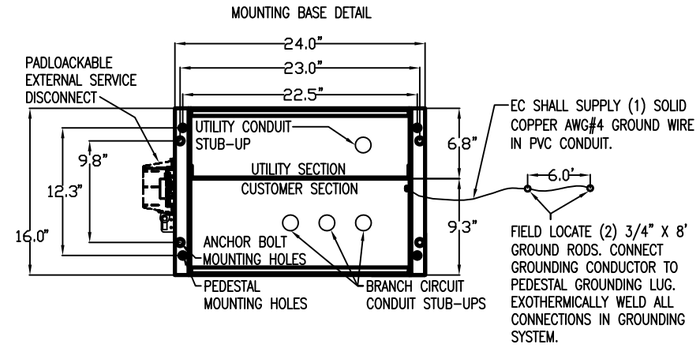
E1.4

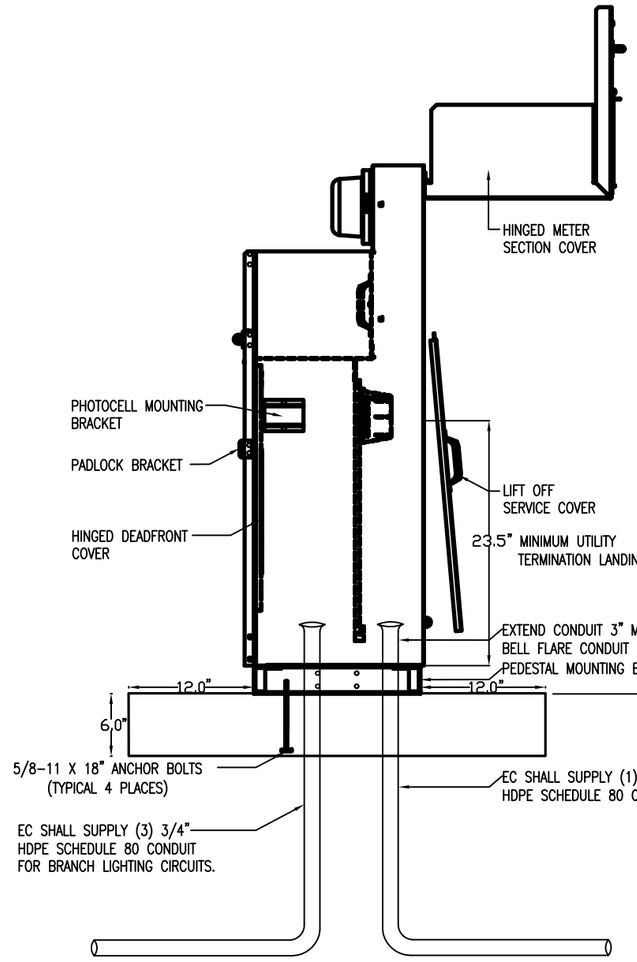


1 QUAZITE PULLBOX DETAIL
SCALE: NO SCALE



2 BELOW GRADE CONDUIT DETAIL
SCALE: NO SCALE





INCLUDED PEDESTAL BUILD OPTIONS:
PANELBOARD: 120/240v, 1 PHASE, 3W, 25KAIC RATING, 18 CIRCUIT.
200A RINGLESS METER SOCKET.
EXTERIOR MOUNTED REMOTE DISCONNECT WITH HASP COVER AND LOCK IN "ON" POSITION FUNCTION.
100A/2P MAIN BREAKER CONNECTED TO REMOTE MAIN DISCONNECT.
(8) 20A/1P CIRCUIT BREAKERS -LIGHTING.
(1) 15A/1P CIRCUIT BREAKER -CONTACTOR CONTROL.
(1) INTERMATIC TIME CLOCK.
(1) 8P 20A ELECTRONICALLY HELD CONTACTOR.
(1) HOA SWITCH -MANUAL/ON/OFF POSITIONS.
(1) 120V/20A GFCI CONVIENIANCE RECEPTACLE.
NEMA 3R STEEL CONSTRUCTED ENCLOSURE FINISH: MINT GREEN.

3 LIGHTING CONTROL CABINET DETAIL
SCALE: NO SCALE

TRESTLE CONNECTION

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Milwaukee, WI 53202
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REVISIONS

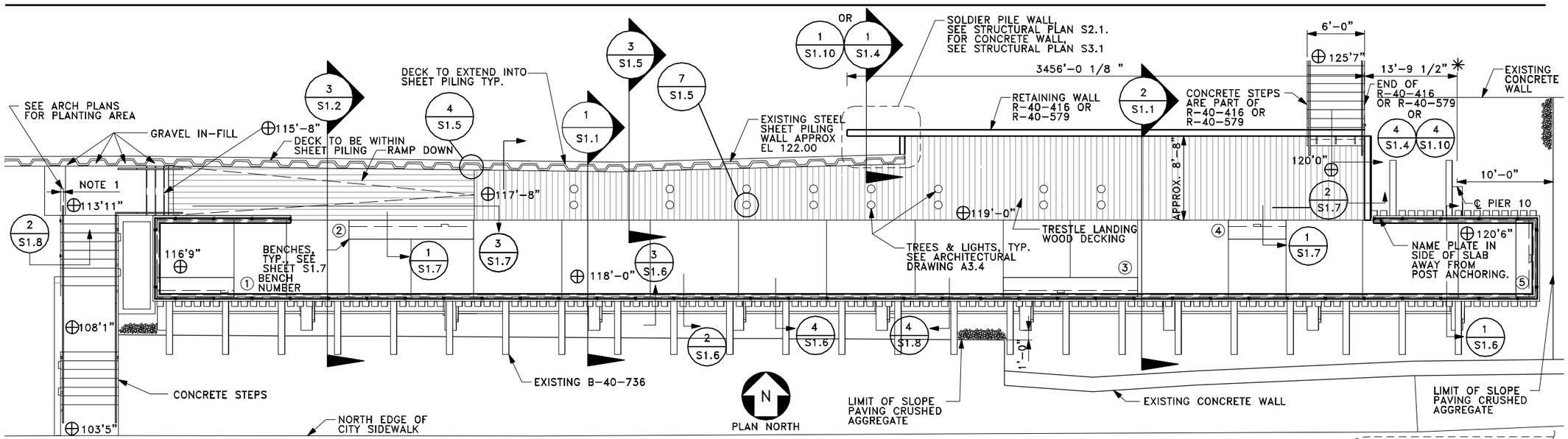
NO.	DATE	DESCRIPTION

THE MATRIX GROUP
ENGINEERING CONSULTANTS
311 EAST CHICAGO STREET, SUITE 310, MILWAUKEE, WI 53202
PHONE: (414) 329-2827 FAX: (414) 329-2820

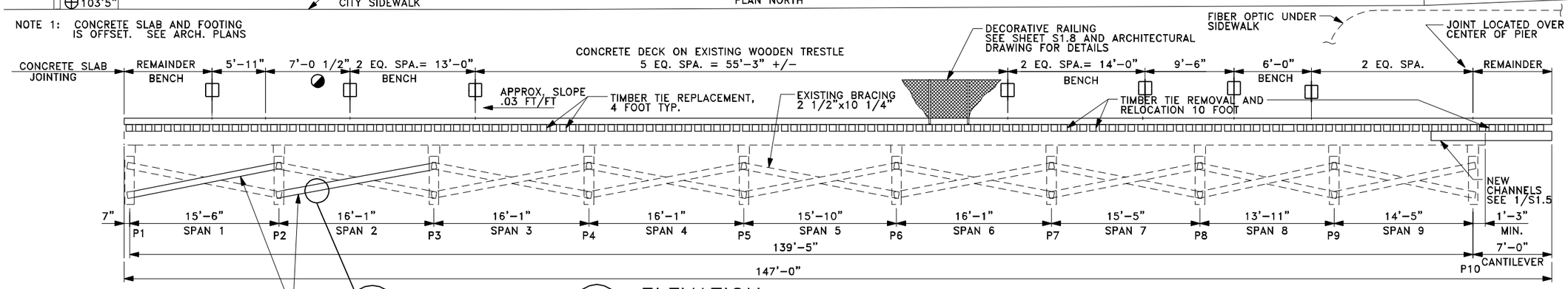
CONSTRUCTION DOCUMENTS
ELECTRICAL DETAILS

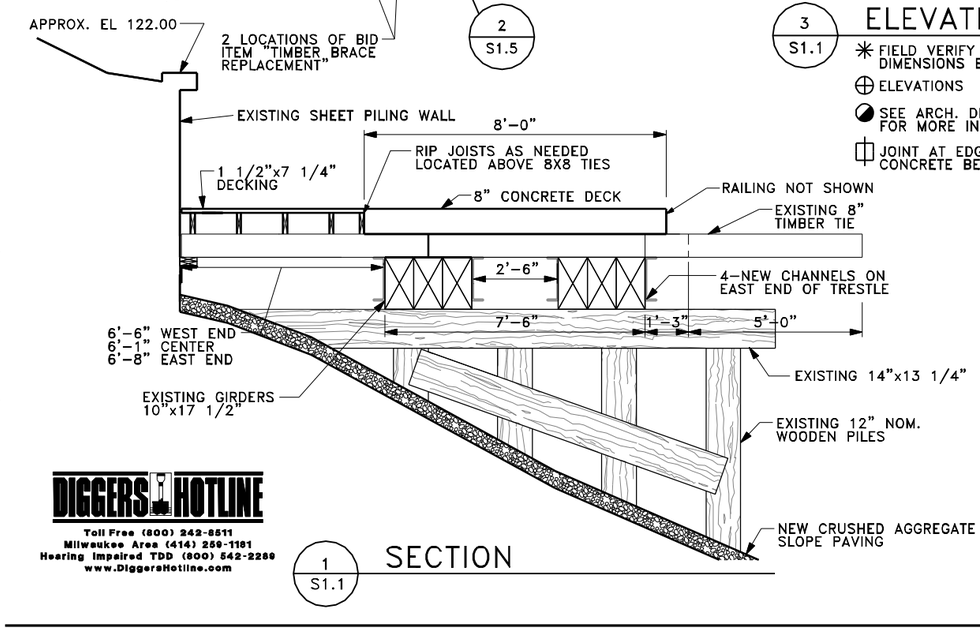
DRAWN BY	RWW
CHECKED BY	RWW
PROJECT NO.	0709
DATE	02.28.2012
SCALE	1/8" = 1'-0"

E1.5



NOTE 1: CONCRETE SLAB AND FOOTING IS OFFSET. SEE ARCH. PLANS





1 S1.1 SECTION

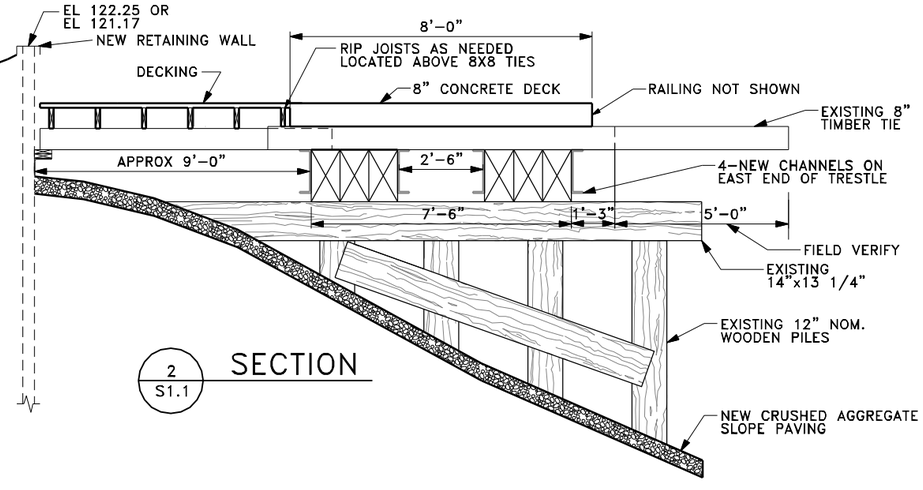
3 S1.1 ELEVATION

✳ FIELD VERIFY ALL DIMENSIONS. OVERALL DIMENSIONS OF THE STRUCTURE ARE BASED ON A FIELD SURVEY. INDIVIDUAL DIMENSIONS BETWEEN THE EXISTING TIMBER MEMBERS ARE LESS PRECISE AND WERE TAKEN FOR GENERAL DESIGN PARAMETERS.

⊕ ELEVATIONS

SEE ARCH. DRAWING A3.4 FOR MORE INFORMATION

JOINT AT EDGE OF CONCRETE BENCH



2 S1.1 SECTION

GRÄEF
One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

PROJECT TITLE:
B-40-736
PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
GENERAL PLAN

SHEET NUMBER:
S1.1

6/7/2012
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GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS ARE IN FEET AND INCHES.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE SLOPE OF THE FILL IN FRONT OF THE EXISTING STEEL SHEET PILE AND NEW RETAINING WALL SHALL BE COVERED WITH SLOPE PAVING CRUSHED AGGREGATE TO THE EXTENT SHOWN ON THE PLAN.

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

CONTRACTOR SHALL SUPPLY A NAME PLATE IN ACCORDANCE WITH SECTION 520.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAILED DRAWING S.D.D.12A3-8. THE NEW NAME PLATE SHALL SHOW THE CONCRETE DECK CONSTRUCTION YEAR. THE LOADING SHOWN ON THE PLATE SHALL BE "100 PSF", INCLUDE COST OF NAME PLATE AS INCIDENTAL TO BID ITEM "CONCRETE MASONRY BRIDGES".

SEE ARCHITECTURAL/ELECTRICAL DRAWINGS FOR LIGHTING DETAILS.

THE CONCRETE DECK SHOULD FOLLOW THE ELEVATION OF THE TOP OF THE TIMBER TIES AND NOT NECESSARILY THE PROFILE. THE THICKNESS OF THE CONCRETE DECK MAY VARY BY 1/2 INCH IN ORDER TO PROVIDE A SMOOTHER TOP OF DECK ELEVATION.

DESIGN DATA

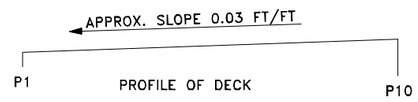
LIVE LOAD:
DESIGN .....100 PSF

ULTIMATE DESIGN STRESSES:
CONCRETE MASONRY SLAB AND BENCHES.....f'c = 4000 PSI
ALL OTHER (STAIRS ON-GRADE).....f'c' = 3500 PSI
HIGH STRENGTH BAR STEEL
REINFORCEMENT GRADE 60 .....60,000 PSI

TREATED LUMBER AND TIMBER
STRUCTURAL JOISTS (4in. OR LESS) .....fb = 1200 PSI
IPE DECK (TABEBUIA SPP. LAPACHO GROUP, "IRON WOOD")..fb = 22,000 PSI MIN.
Emod = 3,145,000 PSI
STEEL (WEATHERING) ASTM A709, GRADE 50W .....fy = 50 KSI MIN.

DESIGN DATA FOR TYPE S EPOXY ANCHORS			
ANCHOR SIZE	MIN. EMBED	ULTIMATE SHEAR (KIPS)	ULTIMATE PULLOUT (KIPS)
3/8"	5"	4.0	9.7
1/2"	5"	7.8	12.0
5/8"	6"	11.2	17.2

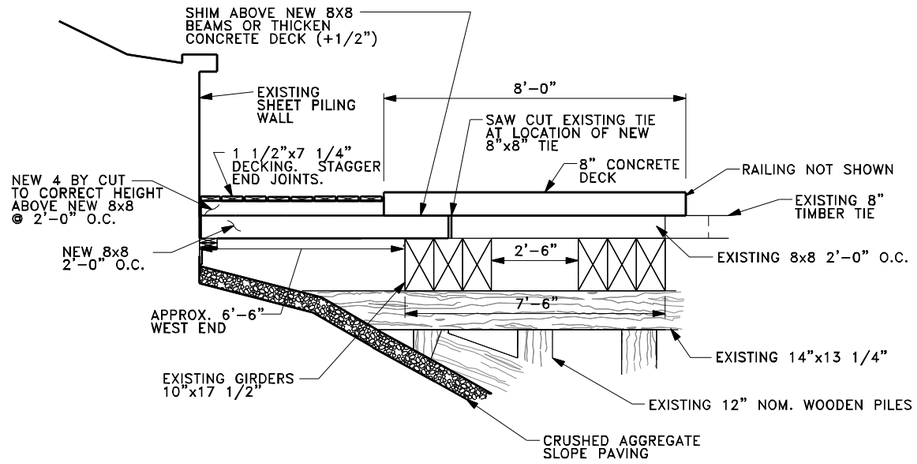
BENCHMARKS		
NUMBER	LOCATION	ELEVATION
BM#1	NW. BOLT TOP FLANGE OF FIRE HYDRANT ON WEST SIDE OF COMMERCE ST. ACROSS FROM "LAKEFRONT BREWERY, INC."	105.23
BM#2	CHISLED + IN SOUTH END OF 12" WALL BETWEEN BITUMINOUS PATH AND THE BEGINNING OF THE CURVE IN THE PATH.	125.96



ESTIMATED QUANTITIES STRUCTURE (B-40-736)

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	
203.0200	REMOVING OLD STRUCTURE B-40-736	LS	1	
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-40-736	LS	1	
502.0100	CONCRETE MASONRY BRIDGES	CY	32	INCLUDES TRESTLE BENCHES
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4590	INCLUDES TRESTLE BENCHES
506.0605	STRUCTURAL STEEL HS	LB	5820	
507.0200	TREATED LUMBER AND TIMBER	MBM	2.1	
602.1500	CONCRETE STEPS	SF	230	WEST STAIRS ONLY
604.0500	SLOPE PAVING CRUSHED AGGREGATE	SY	400	INCLUDES REPAIR OF EXISTING AGGREGATE ON SLOPE
SPV.0060.01	TIMBER TIE REMOVAL AND RELOCATION 10 FOOT	EACH	20	
SPV.0060.02	TIMBER TIE REPLACEMENT 4 FOOT	EACH	40	
SPV.0060.03	TIMBER BRACE REPLACEMENT	EACH	2	
SPV.0105.01	TRESTLE LANDING DECORATIVE RAILING B-40-736	LS	1	
SPV.0105.03	WEST STAIRS DECORATIVE RAILING	LS	1	
SPV.0105.04	TRESTLE AND NORTH LANDING WOOD DECKING B-40-736	LS	1	

ABOVE QUANTITIES ARE ESTIMATED, PAYMENT IS BASED ON "AS-BUILT" QUANTITIES. SEE ARCHITECTURAL DRAWINGS FOR THE ELECTRICAL WORK ON THE STRUCTURE.



3 / S1.2 SECTION

CITY OF MILWAUKEE CONTACT:
CRAIG LIBERTO 414-286-3294

CONSULTANT CONTACT:
ALBERT M. LINDNER 414-259-1500

LIST OF DRAWINGS

GRÄEF
One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

PROJECT TITLE:
B-40-736
PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:
PROJECT NUMBER: 20080114.00
DATE: 12/11/08
DRAWN BY: RBH
CHECKED BY: JRS
APPROVED BY: AML
SCALE:

SHEET TITLE:
QUANTITIES & GENERAL NOTES

SHEET NUMBER:
S1.2

6/14/2012
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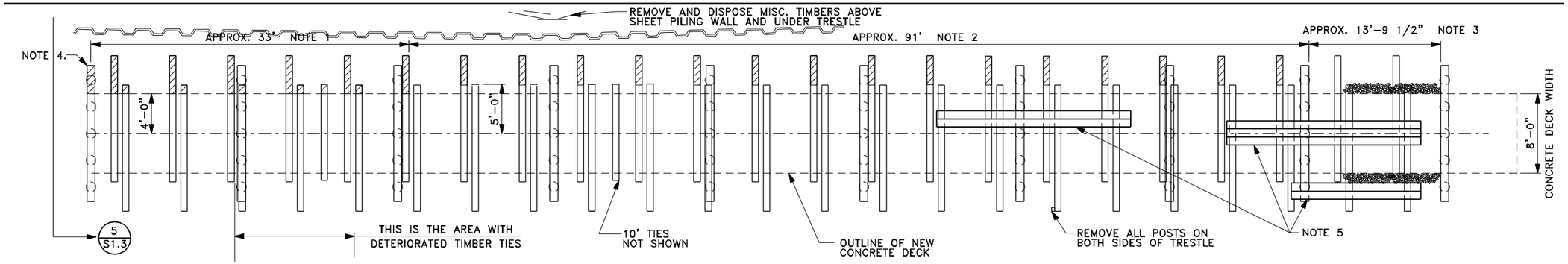


DEMOLITION PLAN

N
PLAN NORTH

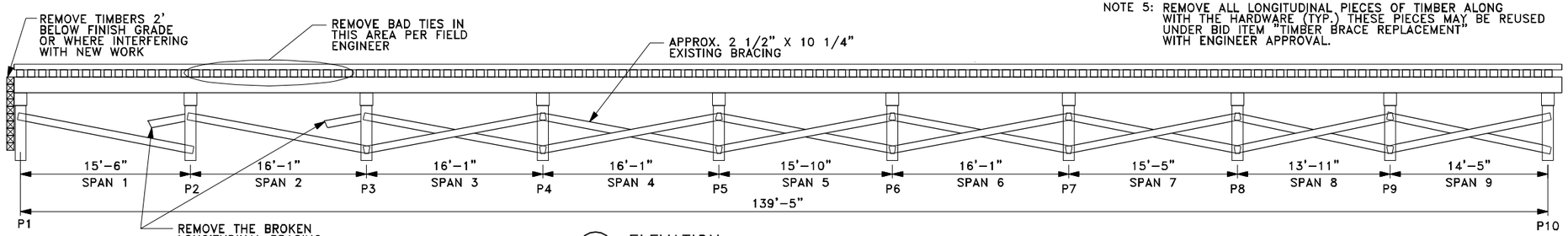
NOTE 1. CUT OFF ALL 15' OUTRIGGERS & 10' TIES FLUSH WITH THE EDGE OF THE CONCRETE IN THIS AREA. (4 FEET FROM THE CENTER OF DECK). CUT SHALL BE SQUARE AND PERPENDICULAR TO MEMBER.

NOTE 2. CUT OFF ALL OUTRIGGERS, ON THIS SIDE IN LINE WITH THE ENDS OF THE 10' TIES AND POSSIBLY REUSE OR DISPOSE PROPERLY.

NOTE 3. DO NOT CUT OFF ANY OF THE 15' OUTRIGGERS OR 10' TIES THAT EXTEND EAST OF THE NEW WOOD DECK.

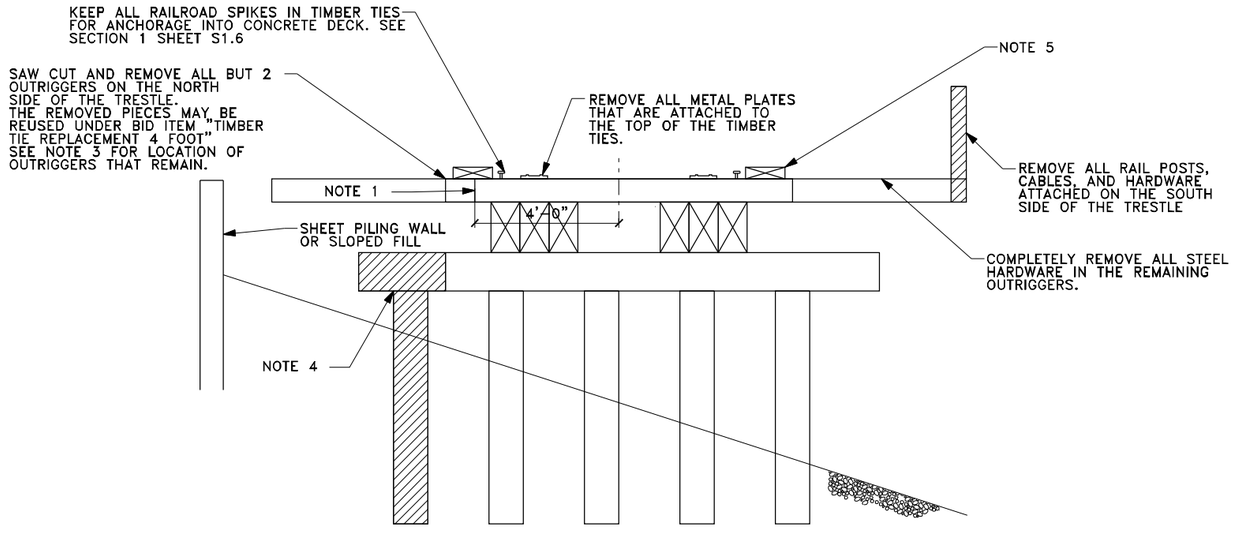
NOTE 4: REMOVE PILE CAP OF PIER 1, THAT IS OUTSIDE OF THE NEW CONCRETE DECK. REMOVE 2' FEET BELOW GRADE THE NORTHERN MOST PILE THAT INTERFERES WITH NEW CONSTRUCTION.

NOTE 5: REMOVE ALL LONGITUDINAL PIECES OF TIMBER ALONG WITH THE HARDWARE (TYP.) THESE PIECES MAY BE REUSED UNDER BID ITEM "TIMBER BRACE REPLACEMENT" WITH ENGINEER APPROVAL.



4 S1.3 ELEVATION

FIELD VERIFY ALL DIMENSIONS



5 S1.3 ELEVATION

GRÄEF

One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax

www.graef-usa.com

PROJECT TITLE:

B–40–736

PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

DEMOLITION PLAN

SHEET NUMBER:

S1.3

6/7/2012
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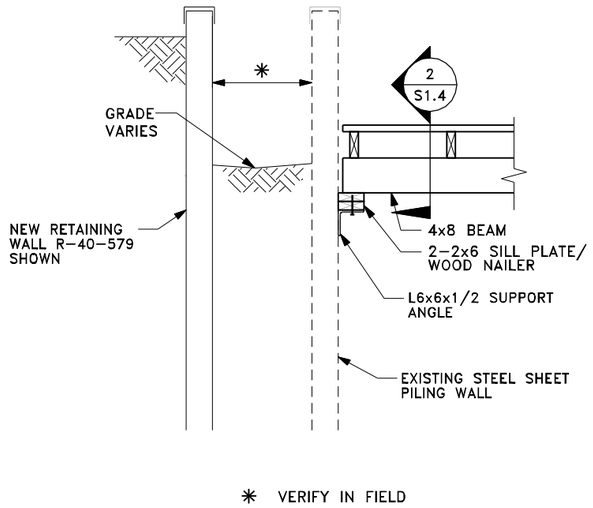
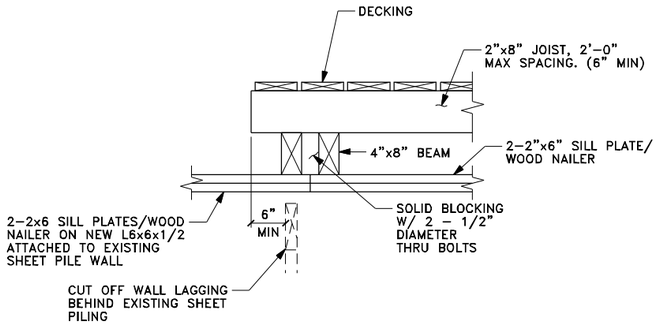
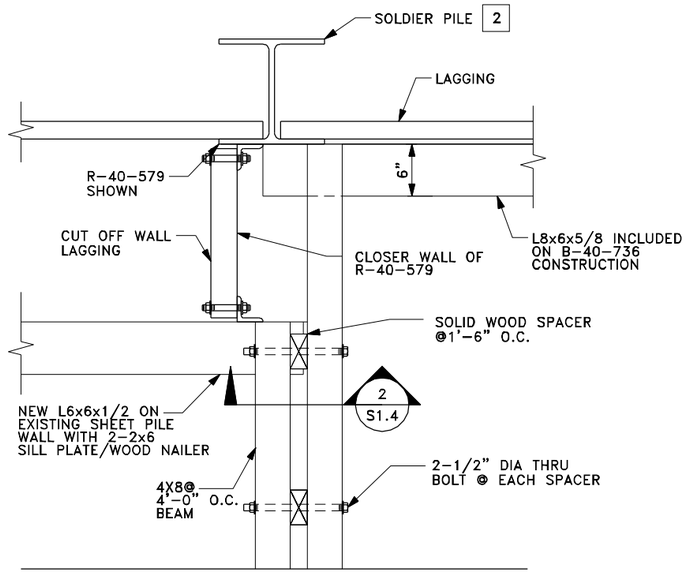


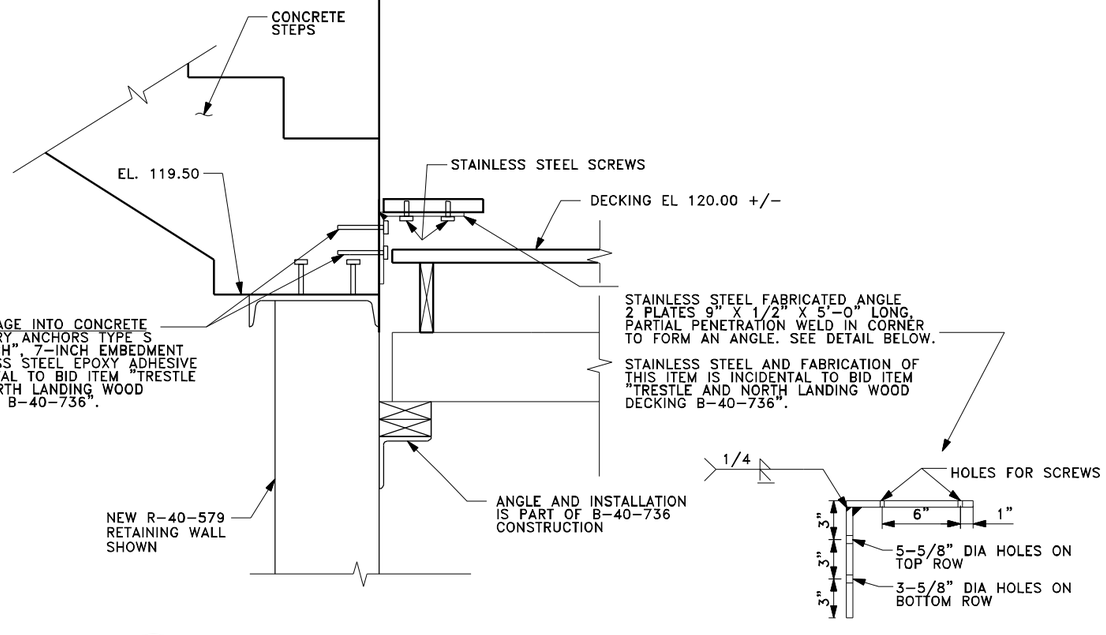
1 SECTION



2 SECTION



3 DETAIL



4 SECTION
AT EAST STAIRS

NOTE:
USE THIS SHEET WHEN R-40-579, A SOLDIER PILE RETAINING WALL WITH WOOD LAGGING, IS USED.

NOTE:
SEE SHEET S1.10 FOR DETAILS ASSOCIATED WITH THE CONCRETE RETAINING WALL R-40-416.

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125 South 84th Street,
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Milwaukee, WI 53214-1470
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PROJECT TITLE:

B-40-736
PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

DETAILS – SOLDIER PILE RETAINING WALL

SHEET NUMBER:

S1.4

6/7/2012
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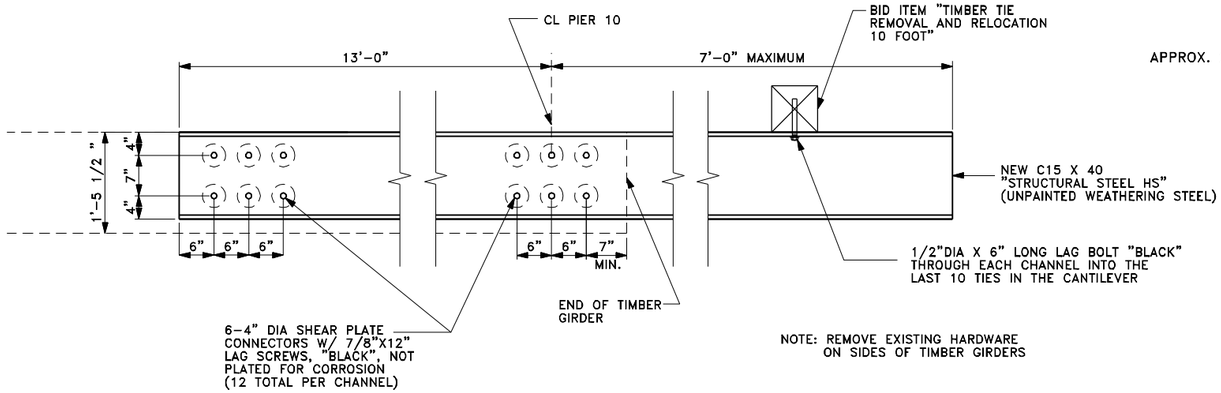
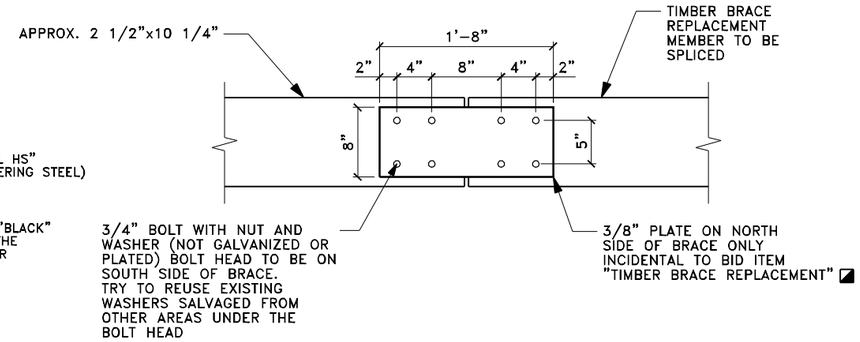
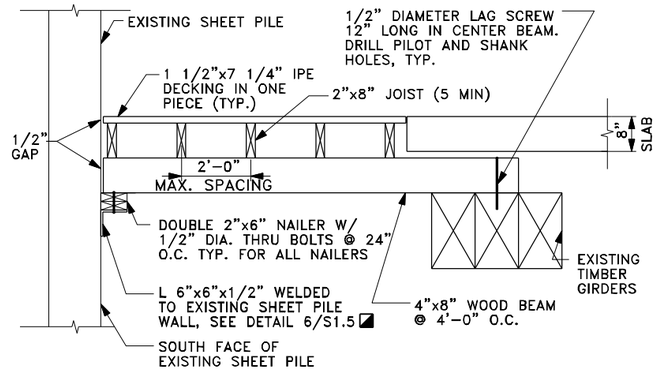


NOTE: REMOVE EXISTING HARDWARE ON SIDES OF TIMBER GIRDERS

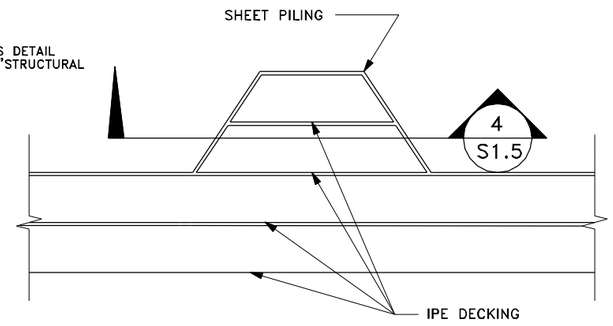


1 DETAIL

ALL HARDWARE SHOWN IN THIS DETAIL ARE INCIDENTAL TO BID ITEM "STRUCTURAL STEEL CARBON".

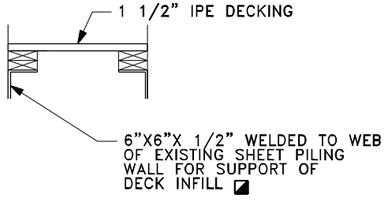


2 DETAIL



3 SECTION

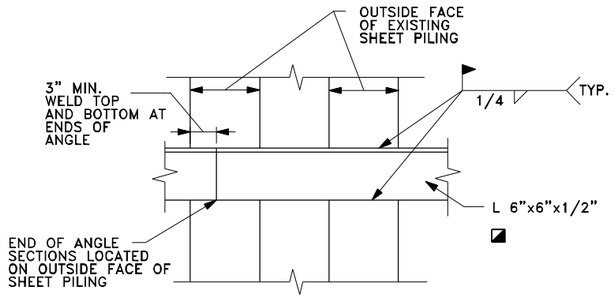
PROVIDE WEATHERING STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS.



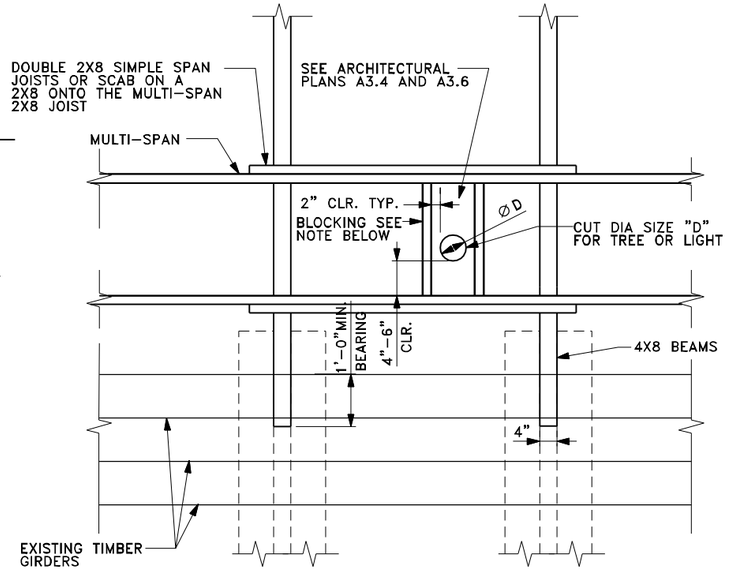
4 DETAIL

PROVIDE WEATHERING STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS.

5 DETAIL



6 DETAIL



7 DETAIL

USE 2X6 BLOCKING FOR FRAMING OF LIGHTS.

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PROJECT TITLE:
B-40-736
PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
DETAILS

SHEET NUMBER:
S1.5

6/7/2012
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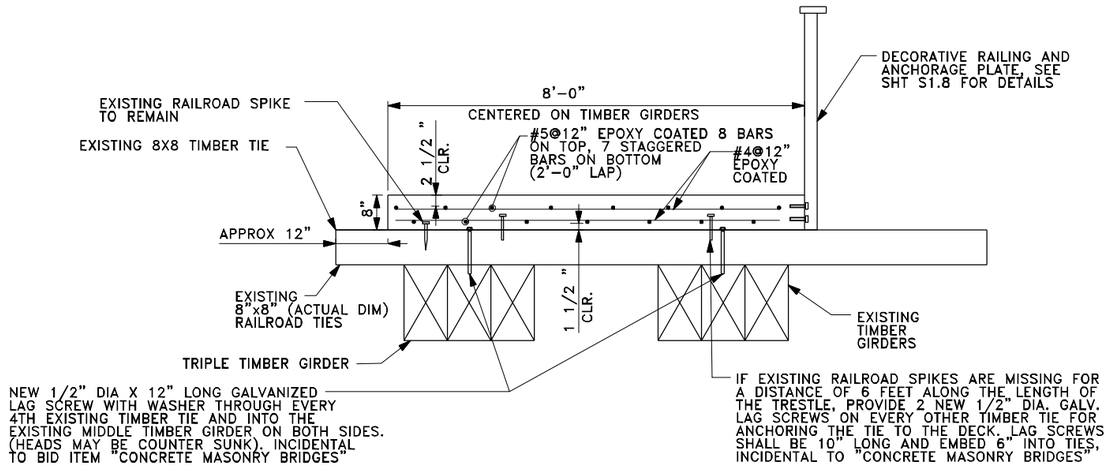
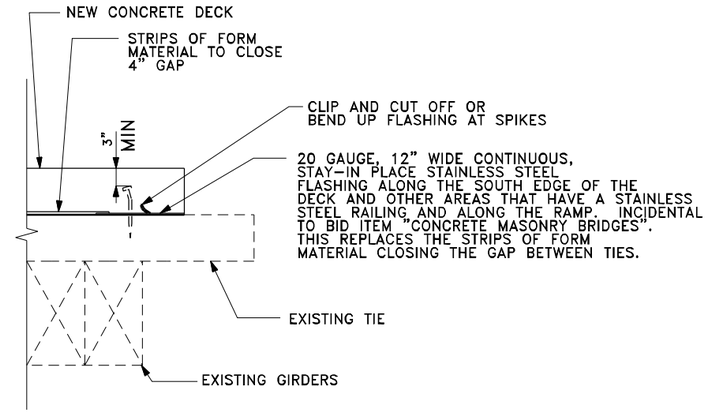
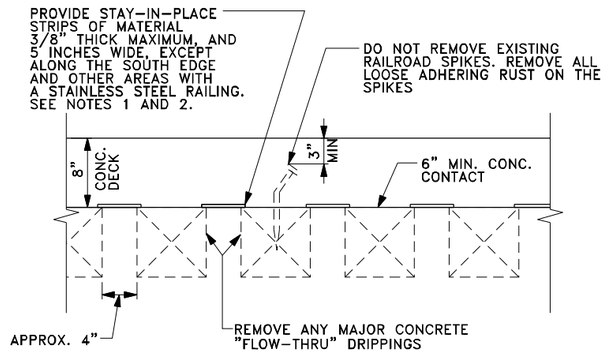


NOTE: CONCRETE DECK IS ALLOWED TO SPAN OVER 1 DETERIORATED 8X8 TIE.

1 SECTION



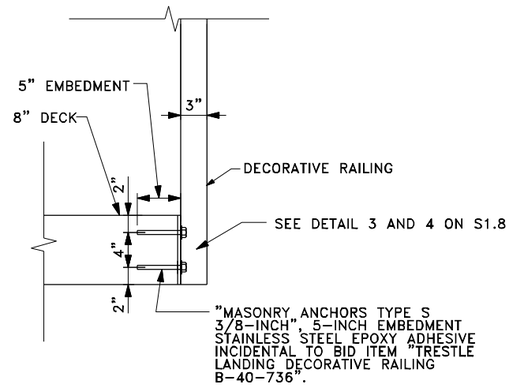
2 SECTION



3 SECTION

NOTE 1. STAY-IN-PLACE FORMS MAY BE WIDER THAN 5", (AS ALLOWED WHEN GOOD TIES ARE ON EACH SIDE OF A DETERIORATED TIE).

NOTE 2. DESIGN FORM MATERIAL FOR ALL CONSTRUCTION LOADS AND CONDITIONS. APPEARANCE OF MATERIAL SHALL BE APPROVED BY THE FIELD ENGINEER.



4 SECTION

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PROJECT ID 2984-23-72

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PROJECT NUMBER:	20080114.00
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DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

CONCRETE DECK DETAILS

SHEET NUMBER:

S1.6

6/7/2012
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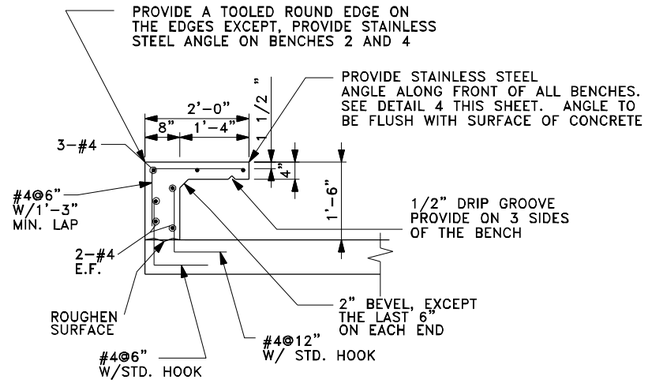
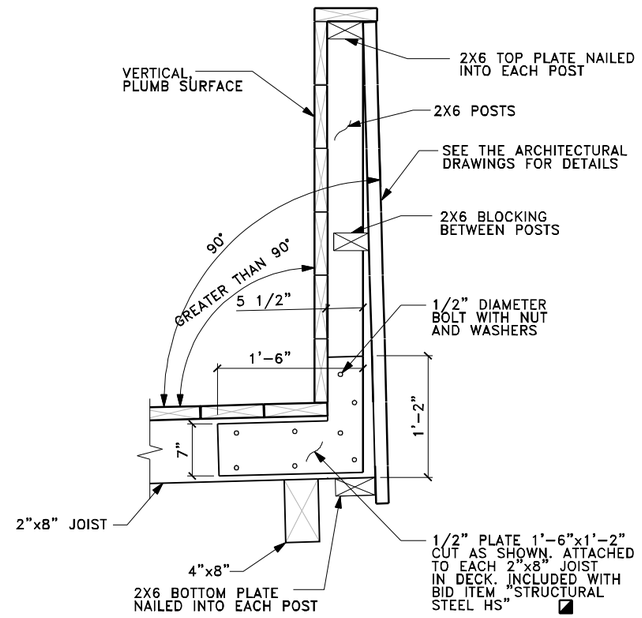


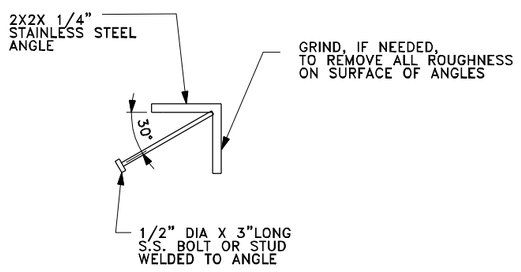
1 SECTION

ALL BENCH REINFORCEMENT BARS AND DOWELS IN THE DECK SHALL BE GALVANIZED COATED AND PAID BY THE POUND, INCLUDED IN THE BID ITEM "BAR STEEL, REINFORCEMENT HS COATED BRIDGES."

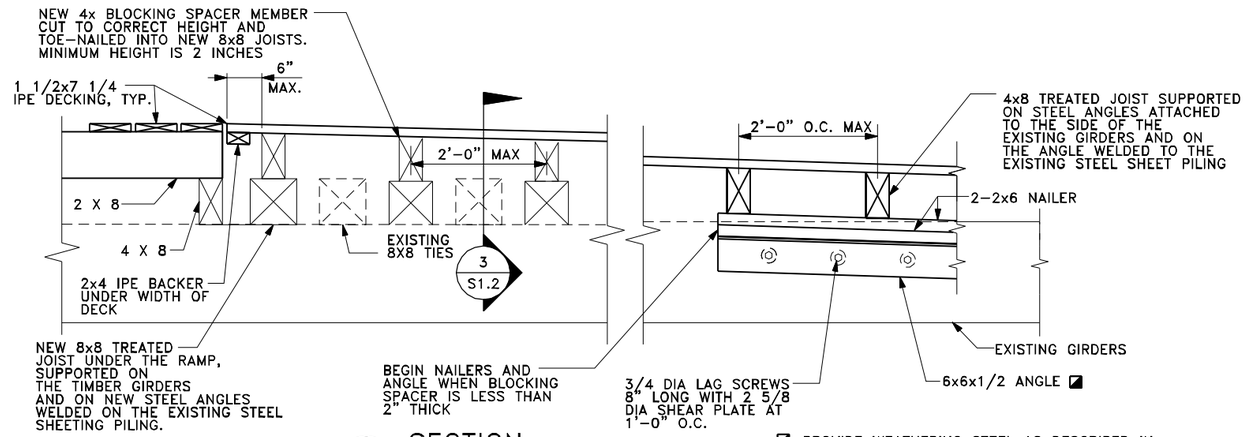


2 SECTION

1"=1'-0"



4 DETAIL



3 SECTION

PROVIDE WEATHERING STEEL AS DESCRIBED IN SECTION 506 OF THE WISDOT SPECIFICATIONS.

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ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

DECK DETAILS

SHEET NUMBER:

S1.7

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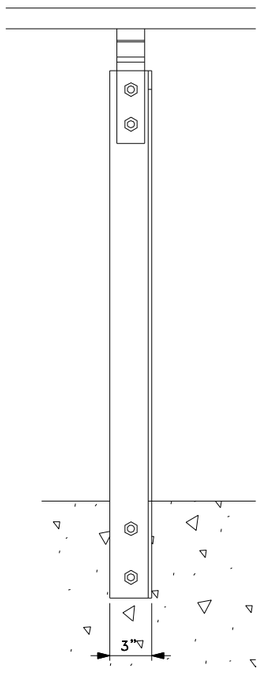
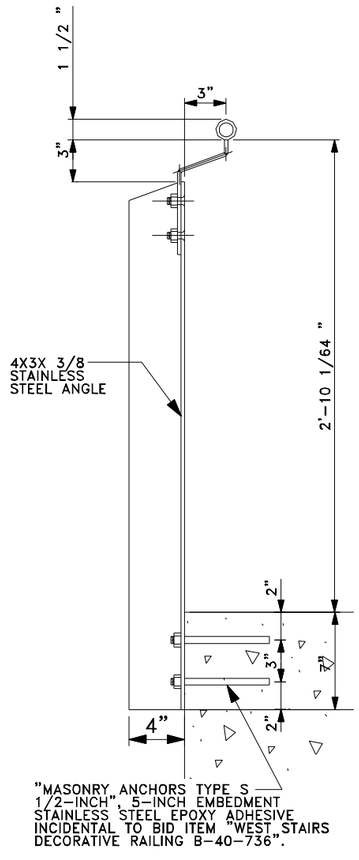
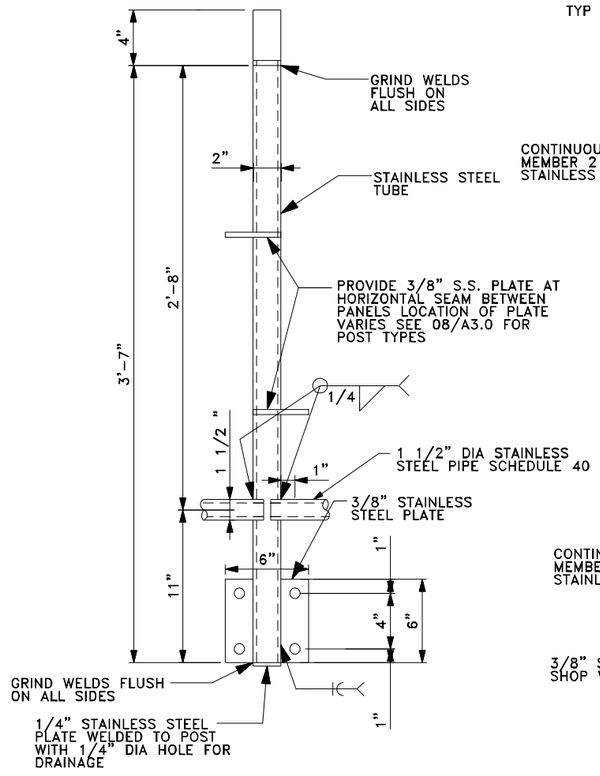
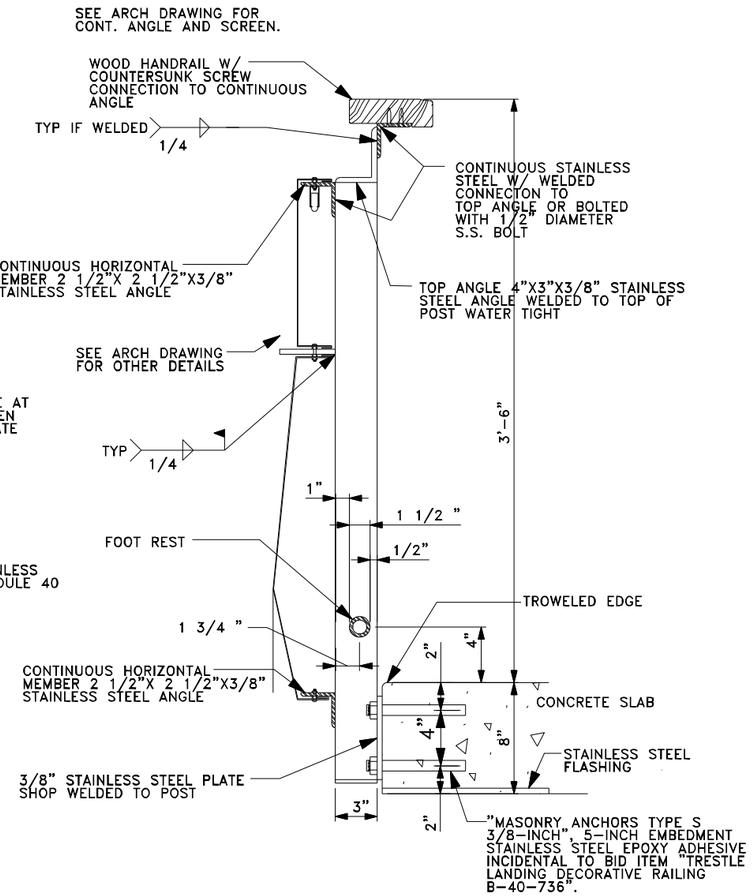




1 STAIR DETAIL



2 STAIR DETAIL



3 TRESTLE DETAIL

4 TRESTLE DETAIL

SEE ARCHITECTURAL DRAWING
FOR LOCATIONS AND DIMENSIONS

6/7/2012
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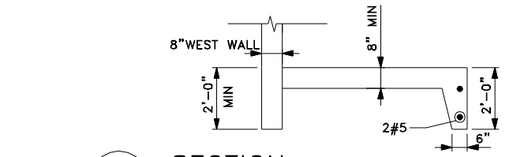
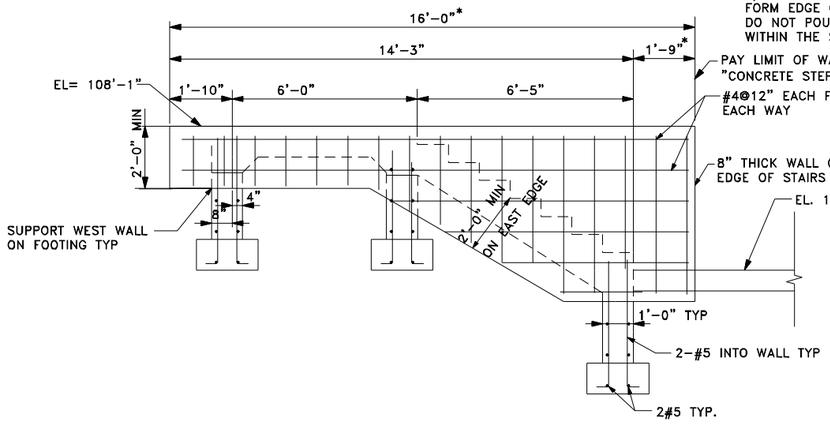
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
DECORATIVE
RAILING DETAILS

SHEET NUMBER:
S1.8

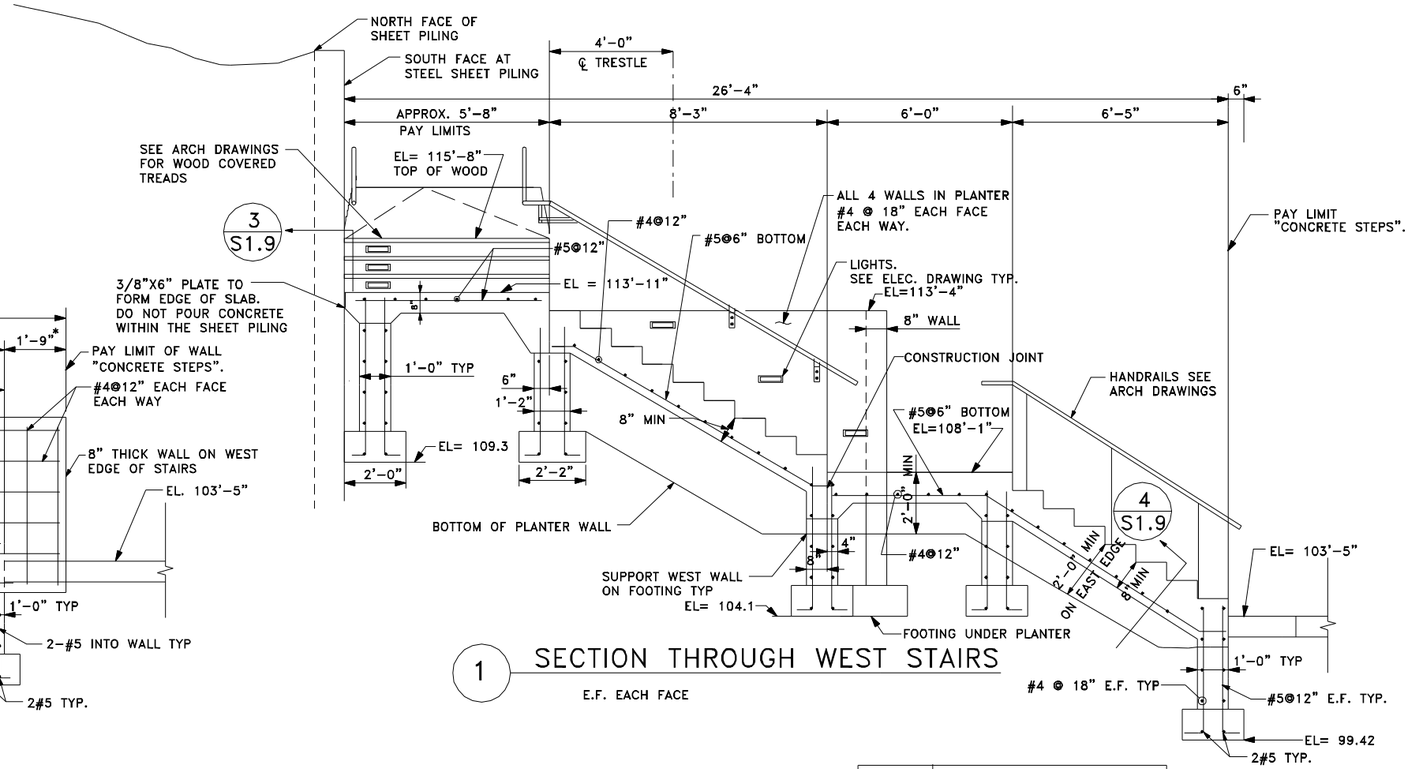


4 SECTION



5 SECTION THROUGH WEST WALL

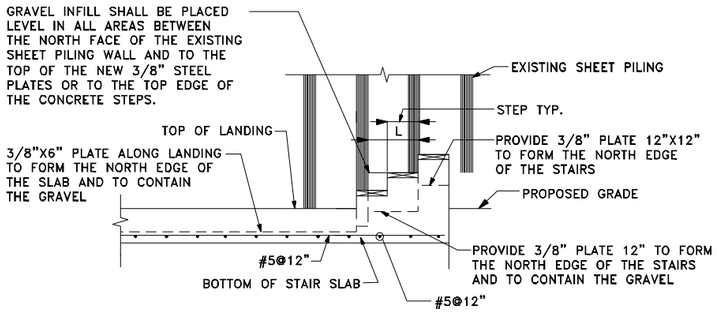
AT WEST STAIRS
* FIELD VERIFY



1 SECTION THROUGH WEST STAIRS

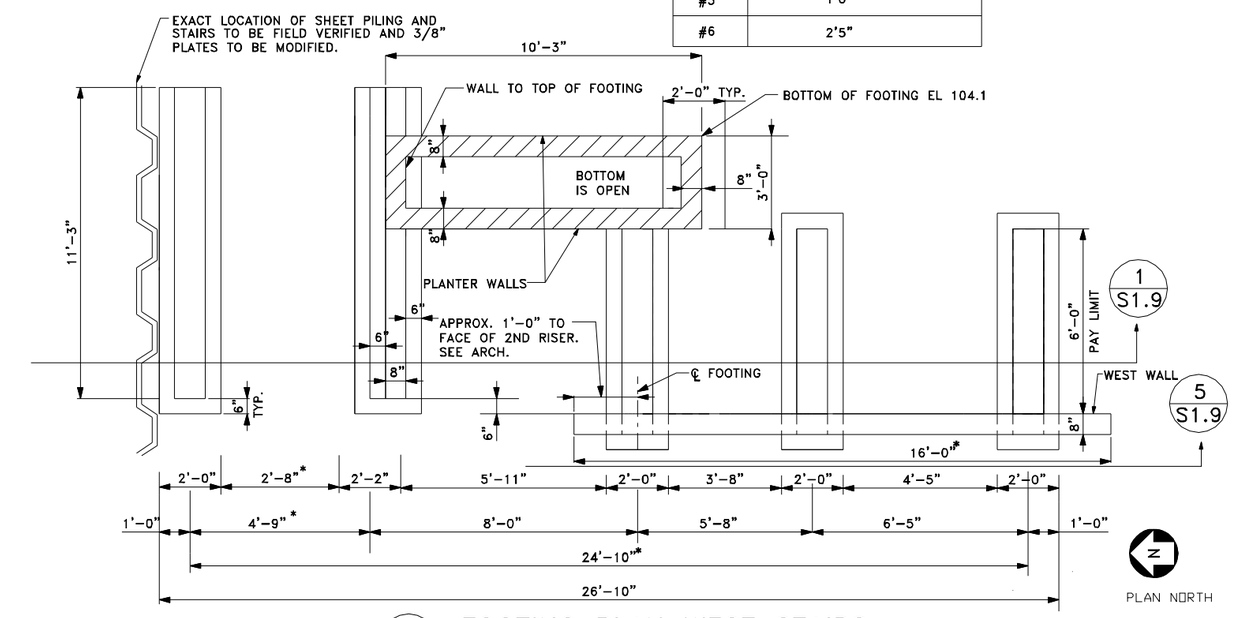
E.F. EACH FACE

	MIN LAPS THIS SHEET
#4	1'0"
#5	1'0"
#6	2'5"



3 SECTION

3/8" PLATE TO BE INCIDENTAL TO BID ITEM "CONCRETE STEPS"



2 FOOTING PLAN WEST STAIRS

* FIELD VERIFY

NOTES:

1. ALL REINFORCING TO BE EPOXY COATED.
2. ALL CONCRETE REINFORCING AND 3/8" PLATE, SHOWN ON THIS SHEET ARE INCLUDED IN BID ITEM "CONCRETE STEPS" PAY LIMITS AS SHOWN AND MEASURED IN PLAN. THE TOTAL AREA BETWEEN THE WALLS OF THE PLANTER SHALL BE ADDED TO THE BID ITEM "CONCRETE STEPS".

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3:22:02 PM
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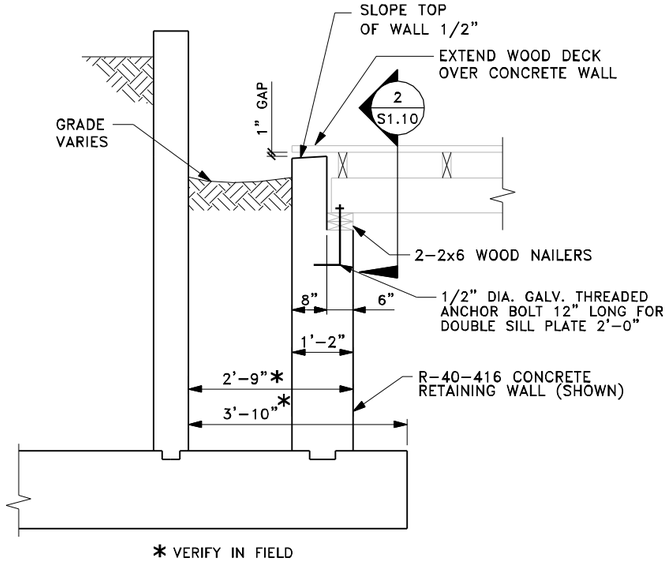
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

WEST STAIRS

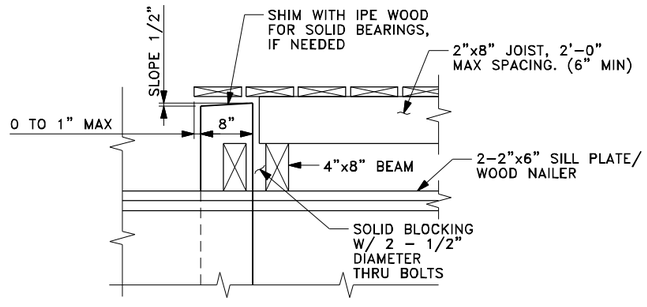
SHEET NUMBER:

S1.9

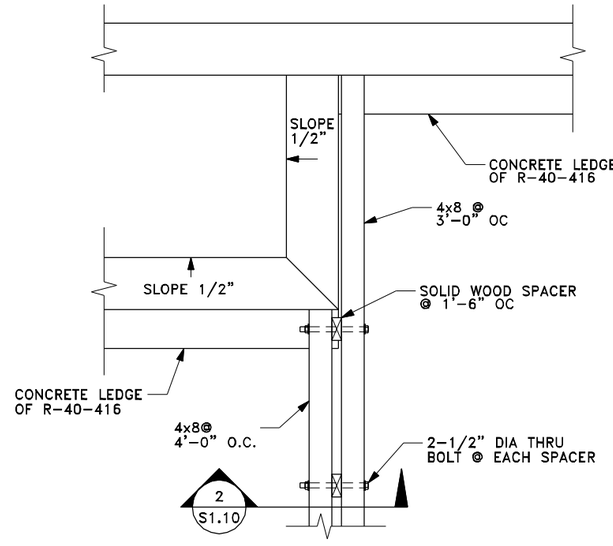


1 SECTION

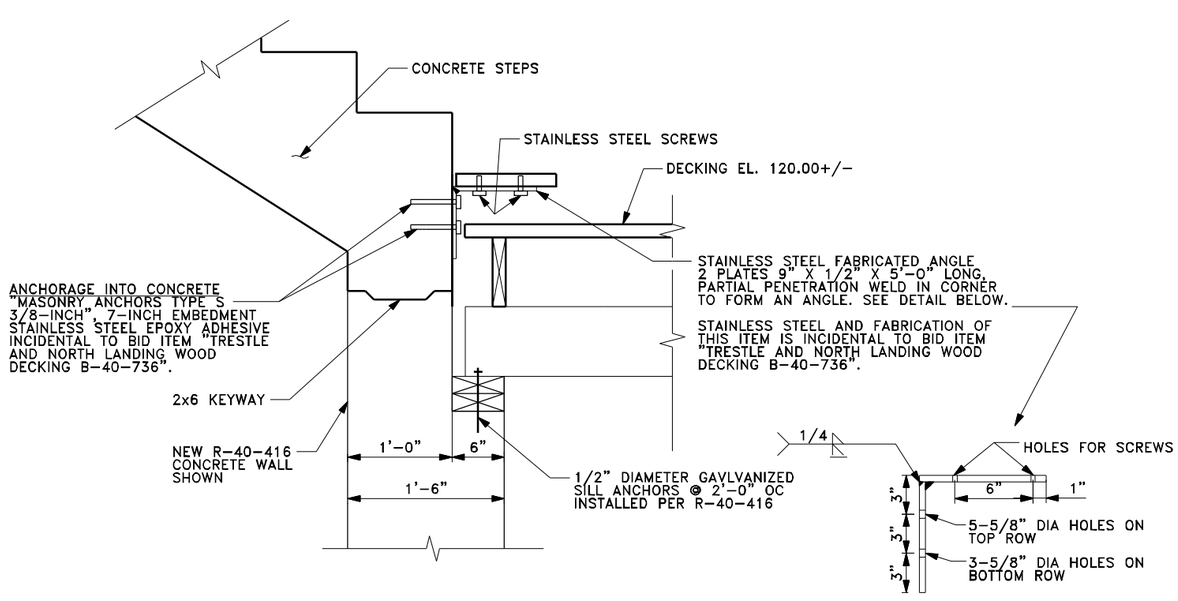
LOOKING EAST



2 SECTION



3 SECTION



4 SECTION

AT EAST STAIRS

NOTE:
USE THIS SHEET WHEN R–40–416, A CAST–IN–PLACE RETAINING WALL IS USED.

SEE SHEET S1.4 FOR DETAILS ASSOCIATED WITH THE SOLDIER PILE RETAINING WALL R–40–579.

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B–40–736
PROJECT ID 2984-23-72

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

DETAILS – CONCRETE RETAINING WALL

SHEET NUMBER:

S1.10

6/7/2012
3:22:04 PM
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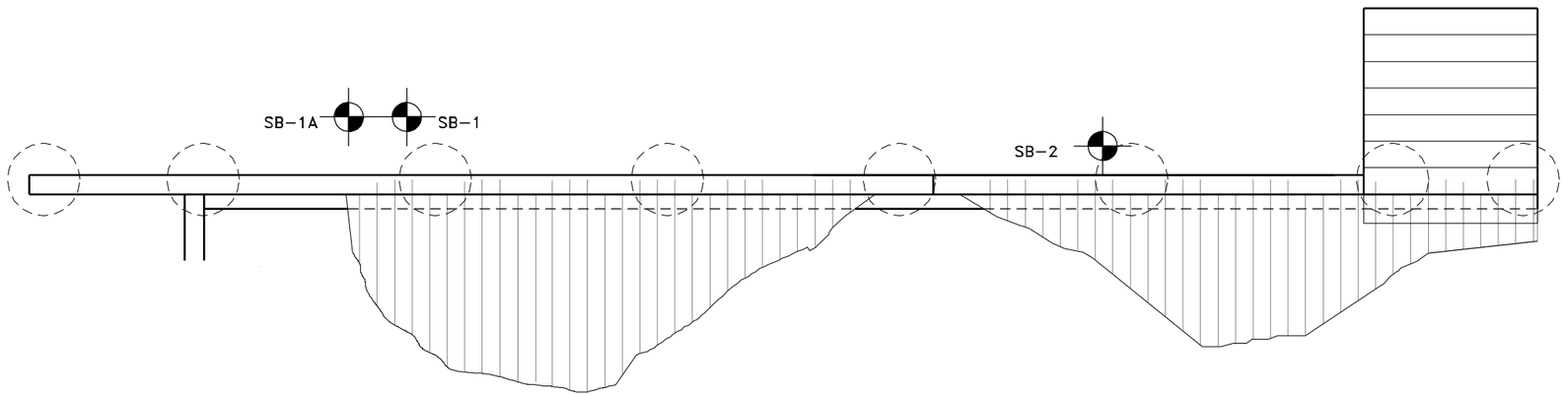
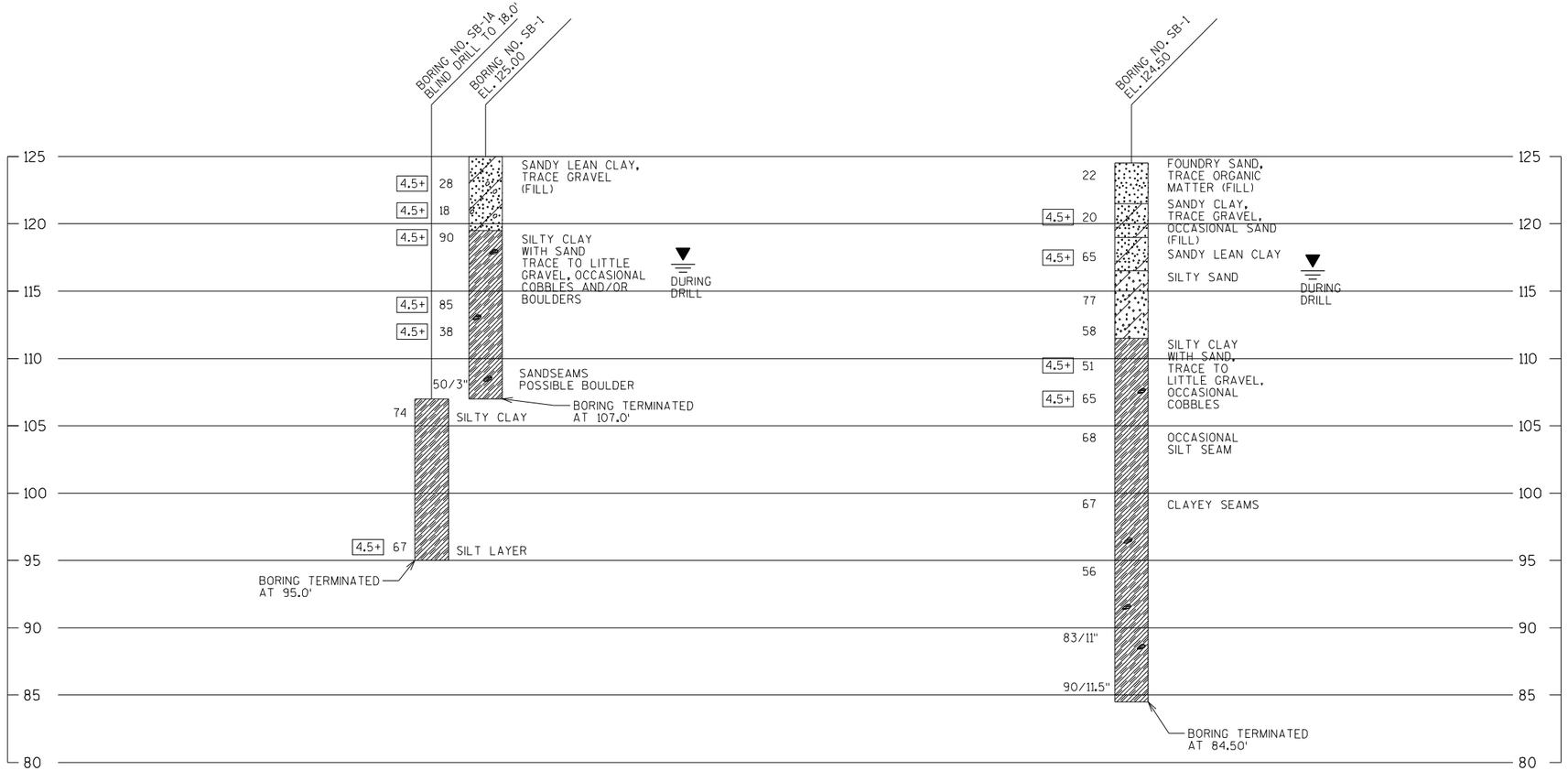
SOIL BORING TAKEN BY:
GESTRA ENGINEERING, INC
7600 75TH STREET, SUITE 206
KENOSHA, WI 53142
262-925-1885
DATE OF DRILLING DEC. 7, 2011





ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
ELEV. STA.
UNCONFINED STRENGTH — 7.7 7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

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APPROVED BY:	AML
SCALE:	

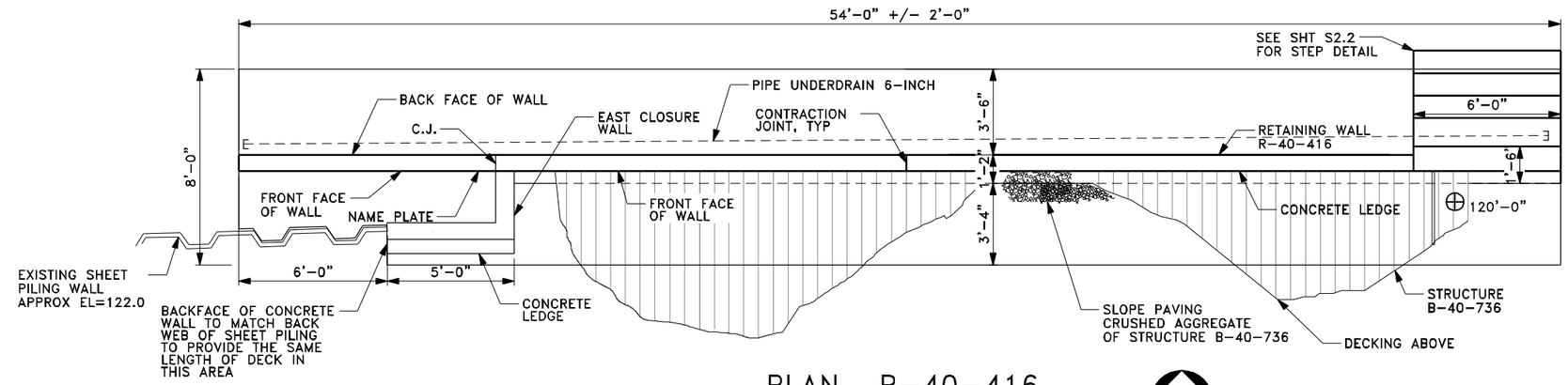
SHEET TITLE:

SUBSURFACE EXPLORATION

SHEET NUMBER:

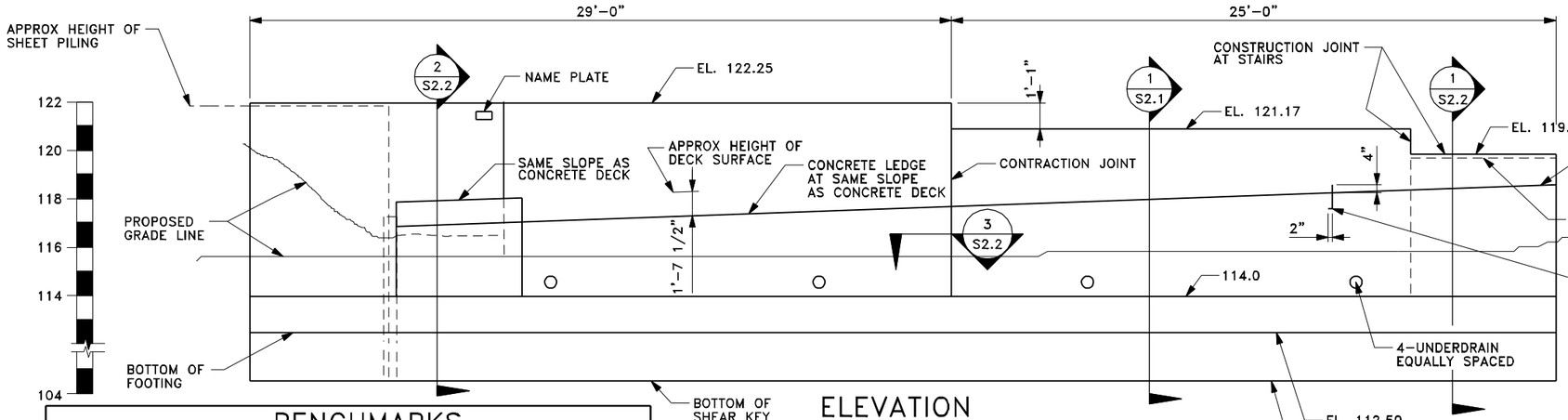
S1.11

6/7/2012
3:22:07 PM
I:\jobs2008\20080114\cad\structural\dgn\00\S_00_0114_S1-11.dgn

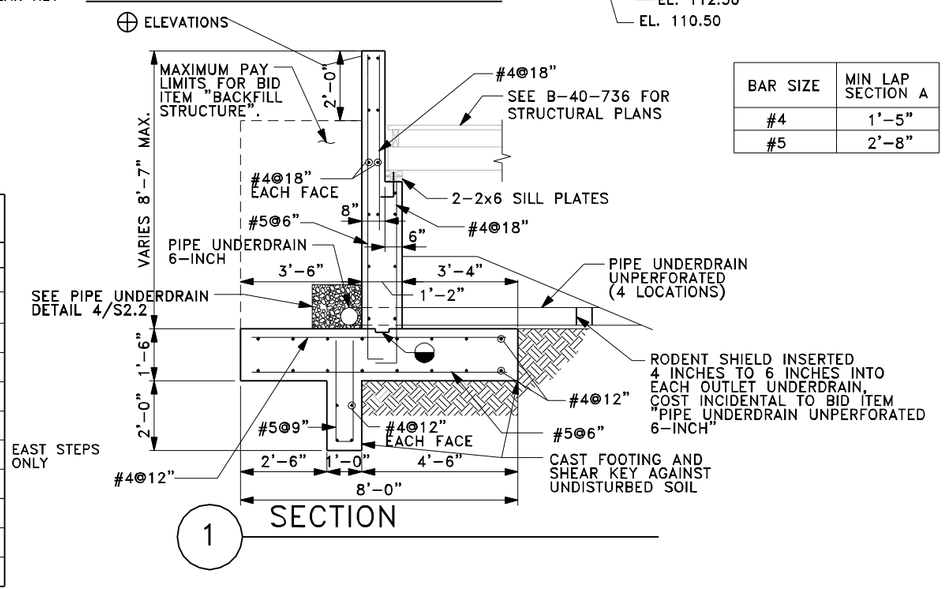


PLAN R-40-416

CAST-IN-PLACE CONCRETE RETAINING WALL



ELEVATION



BAR SIZE	MIN LAP SECTION A
#4	1'-5"
#5	2'-8"

BENCHMARKS

NUMBER	LOCATION	ELEVATION
BM#1	NW. BOLT TOP FLANGE OF FIRE HYDRANT ON WEST SIDE OF COMMERCE ST. ACROSS FROM "LAKEFRONT BREWERY, INC."	105.23
BM#2	CHISLED + IN SOUTH END OF 12" WALL BETWEEN BITUMINOUS PATH AND THE BEGINNING OF THE CURVE IN THE PATH.	125.96

ESTIMATED QUANTITIES

E. STAIR & CONCRETE RETAINING WALL (R-400-416)

ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALL	LS	1
210.0100	BACKFILL STRUCTURE	CY	46
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	44
505.0415	BAR STEEL REINFORCEMENT HS RETAINING WALLS	LB	2700
505.0615	BAR STEEL REINFORCEMENT HS COATED RETAINING WALLS	LB	2720
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
602.1500	CONCRETE STEPS (EAST STAIR)	SF	57
612.0106	PIPE UNDERDRAIN 6-INCH	FOOT	54
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	FOOT	32
645.0100	GEOTEXTILE FABRIC TYPE DF	SF	405
SPV.0105.02	EAST STAIR DECORATIVE RAILING	LS	1

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE PROPOSED GROUNDLINE BEHIND THE RETAINING WALL.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE NOTED.

BACKFILL THE FRONT FACE OF WALL BEFORE THE BACK FACE.

ALL REINFORCING ABOVE THE TOP OF THE FOOTING SHALL BE EPOXY COATED, INCLUDING THE VERTICAL DOWEL BARS THAT ARE EMBEDDED INTO THE FOOTING.

2x6 BEVELED KEYWAY

SEE SHEET S1.10 FOR OTHER CONCRETE WALL DETAILS.

DESIGN DATA

CONCRETE MASONRY, FOOTING.....f'c = 3500 PSI
CONCRETE MASONRY,
ALL OTHER (STAIRS-ON-GRADE).....f'c' = 3500 PSI
HIGH STRENGTH BAR STEEL
REINFORCEMENT.....60,000 PSI

FOUNDATION DESIGN DATA

THE ALLOWABLE SOIL PRESSURE OF 3000 PSF WAS USED FOR THE SPREAD FOOTING ABUTMENT DESIGN FOR THE ADJACENT PEDESTRIAN BRIDGE. THE ALLOWABLE SOIL PRESSURE FOR THE DESIGN OF THIS RETAINING WALL WILL BE 2000 PSF.

LIST OF DRAWINGS

DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
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CITY OF MILWAUKEE CONTACT:
CRAIG LIBERTO 414-286-3294

CONSULTANT CONTACT:
ALBERT M. LINDNER 414-259-1500

GRÄEF
One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

PROJECT TITLE:
R-40-416 CONCRETE RETAINING WALL

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
GENERAL PLAN AND ELEVATION

SHEET NUMBER:
S2.1

6/14/2012
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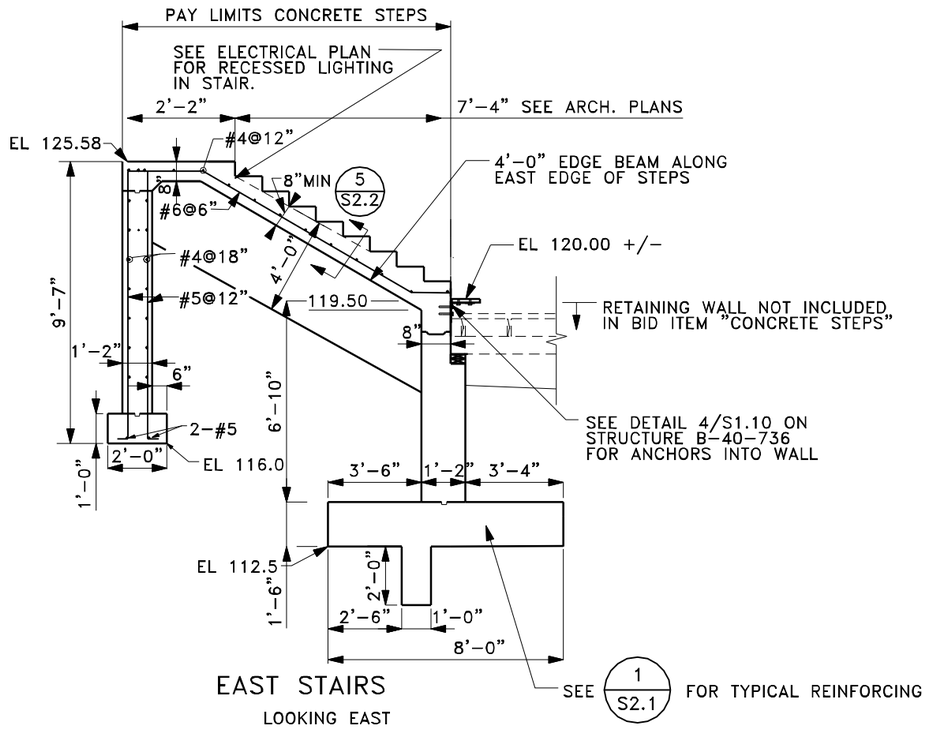
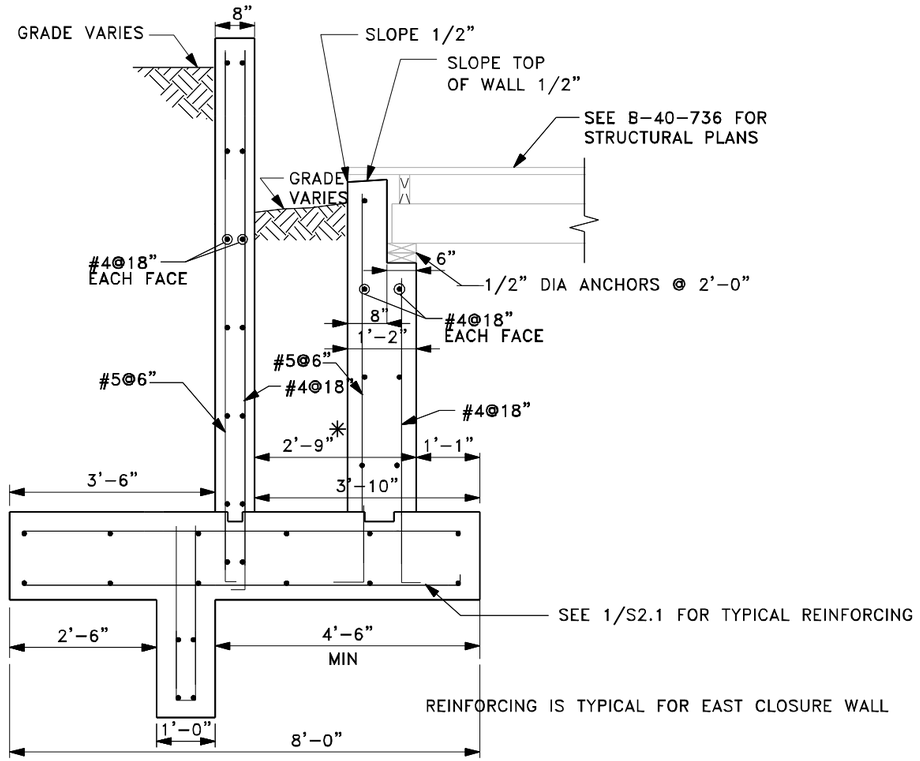


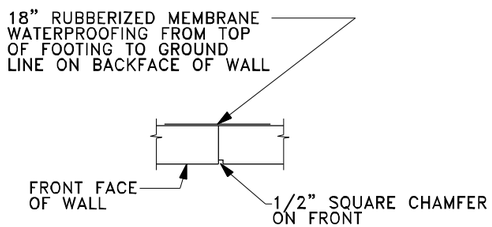
EAST STAIRS
LOOKING EAST

1 SECTION

NOTE: ALL ELECTRICAL WORK AND DECORATIVE RAILING FOR R-40-416 IS INCLUDED IN STRUCTURE B-40-736.

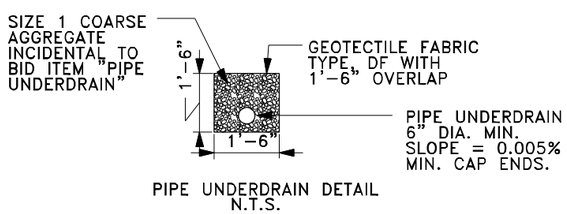


2 SECTION



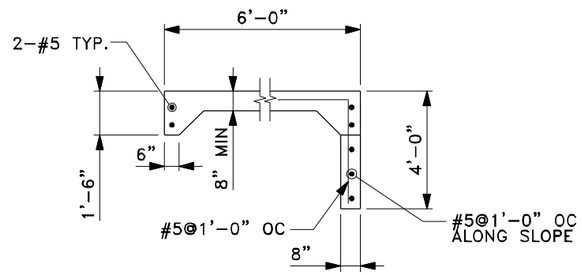
CONTRACTION JOINT
DO NOT RUN BAR STEEL THRU JOINT.
N.T.S.

3 SECTION



PIPE UNDERDRAIN DETAIL
N.T.S.

4 SECTION



5 SECTION

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Suite 401
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414 / 259 1500
414 / 259 0037 fax
www.graef-usa.com

PROJECT TITLE:
R-40-416 CONCRETE RETAINING WALL

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
CROSS SECTION AND DETAILS

SHEET NUMBER:
S2.2

6/7/2012
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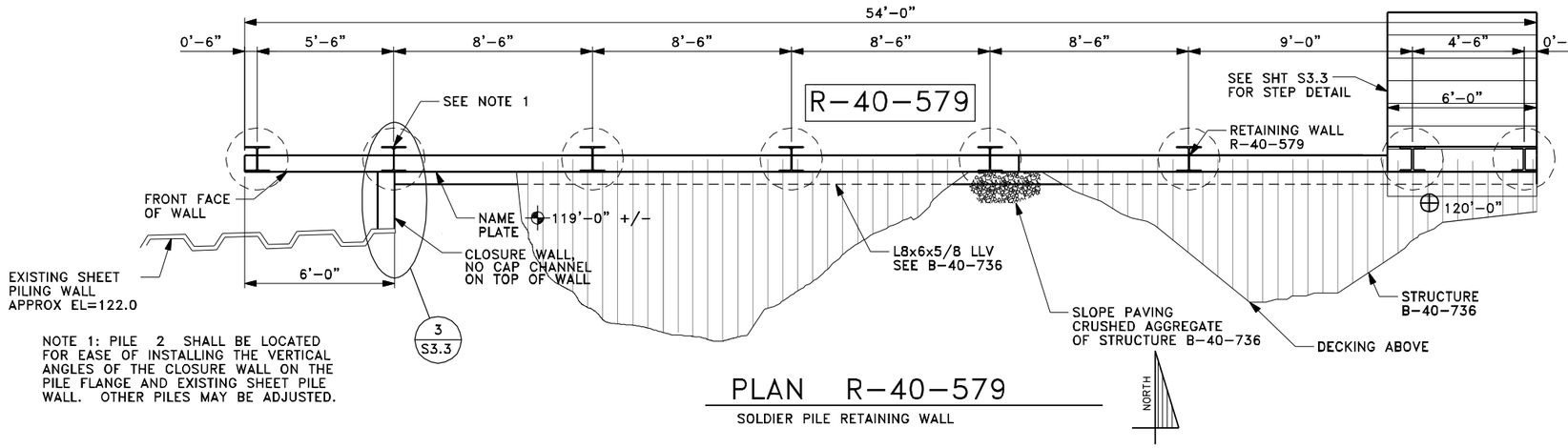


NOTE 1: PILE 2 SHALL BE LOCATED FOR EASE OF INSTALLING THE VERTICAL ANGLES OF THE CLOSURE WALL ON THE PILE FLANGE AND EXISTING SHEET PILE WALL. OTHER PILES MAY BE ADJUSTED.

PLAN R-40-579

SOLDIER PILE RETAINING WALL

DESIGN DATA

ULTIMATE DESIGN STRESSES:

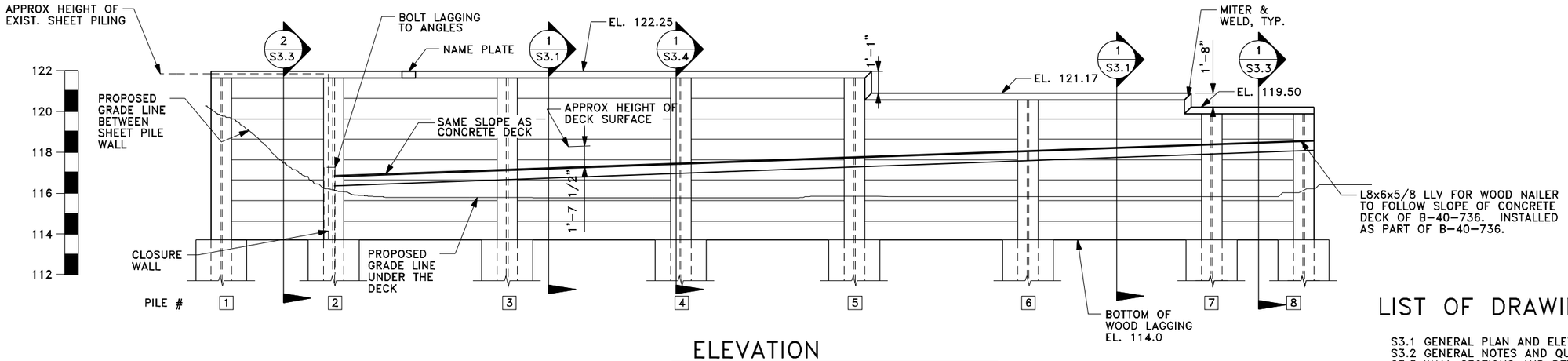
CONCRETE MASONRY FOOTING.....f'c = 3500 PSI
TIMBER LAGGING.....fb = 1200 PSI
E = 1,500,000 PSI

BAR STEEL REINFORCEMENT, GRADE 60
.....fy = 60,000 PSI
STEEL (WEATHERING) ASTM A709, GRADE 50W
.....fy = 50,000 PSI

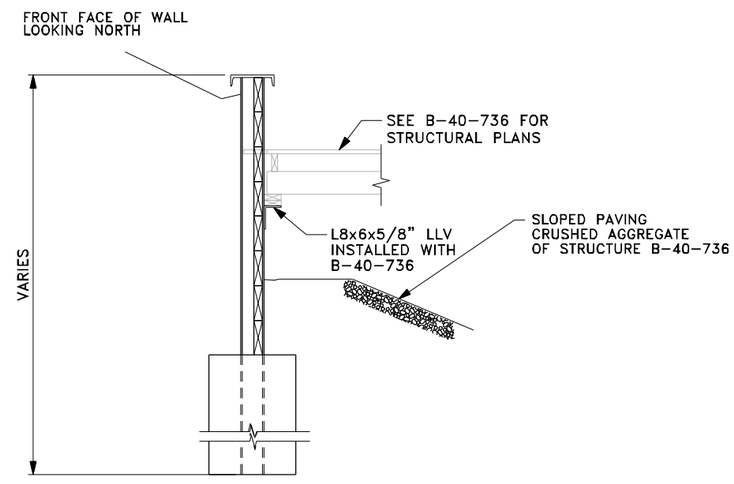
LIVE LOAD:

RETAINING WALL IS DESIGNED FOR A LIVE LOAD SURCHARGE OF 100 PSF.

GROUND BACKSLOPE OF 2:1.



ELEVATION



1 SECTION

BENCHMARKS

NUMBER	LOCATION	ELEVATION
BM#1	NW. BOLT TOP FLANGE OF FIRE HYDRANT ON WEST SIDE OF COMMERCE ST. ACROSS FROM "LAKEFRONT BREWERY, INC."	105.23
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PROJECT TITLE:
R-40-579 SOLDIER PILE RETAINING WALL

ISSUE:

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PROJECT NUMBER:	20080114.00
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DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
GENERAL PLAN AND ELEVATION

SHEET NUMBER:
S3.1

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ESTIMATED QUANTITIES

E. STAIR & SOLDIER PILE RETAINING WALL (R-40-579)

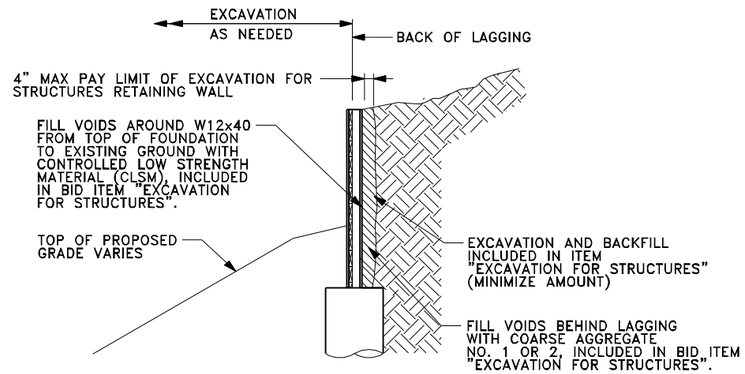
ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS (R-40-579)	LS	1	
506.0605	STRUCTURAL STEEL HS	LB	1988	
506.3010	WELDED STUD SHEAR CONNECTORS 7/8 x 5-INCH	EACH	10	
602.1500	CONCRETE STEPS (EAST STAIRS)	SF	57	EAST STAIRS ONLY
645.0100	GEOTEXTILE FABRIC TYPE DF	SF	185	
SPV.0035.01	CONCRETE MASONRY SOLDIER PILE FOOTINGS	CY	28	*
SPV.0085.01	SOLDIER PILES	LB	8457	
SPV.0090.02	FOUNDATION DRILLING	LF	224	
SPV.0105.02	EAST STAIR DECORATIVE RAILING	LS	1	
SPV.0110.01	TIMBER LAGGING	MBM	1.7	

* CONTRACTOR WILL ONLY BE PAID FOR THE SOLDIER PILE FOOTING DIAMETER SHOWN ON THE SCHEDULE, SEE THIS SHEET.

DESIGN SOIL PARAMETERS

SOIL DESCRIPTION	UNIT EFFECTIVE WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PCF)
RETAINED SOIL BEHIND WALL	140	29	0 ☆
SOIL BELOW TOP OF FOOTING	78	32	2500

☆ THE DRAINED CONDITION CONTROLS THE DESIGN AND COHESION IS ASSUMED TO BE ZERO.



LIMITS OF EXCAVATION FOR STRUCTURE

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DIMENSIONS GIVEN IN FEET AND INCHES. ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES SHALL BE EXISTING GROUNDLINE ABOVE THE TIMBER LAGGING.

CONTRACTOR SHALL EXCAVATE IN BACK OF THE WALL IN SUFFICIENTLY SMALL LIFTS, TO INSTALL LAGGING FROM THE TOP OF THE PILE DOWN TO THE FOOTING. LAGGING SHALL BE PLACED ON THE INSIDE OF THE FRONT FLANGE OF THE SOLDIER PILING. AS AN OPTION, THE CONTRACTOR MAY EXCAVATE TO THE REQUIRED DEPTH, IF SOIL CONDITIONS AND R/W PERMITS, AND INSTALL THE LAGGING FROM THE FOOTING TO THE TOP OF THE PILE. BOTH PROCEDURES SHALL BE PERFORMED IMMEDIATLY AFTER EXCAVATION TO PREVENT THE GROUND FROM ERODING INTO THE EXCAVATED AREA.

CONCRETE FOR FOOTING WILL NOT BE PAID BEYOND THE DIMENSIONS GIVEN.

CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING UTILITIES, IF THERE ARE ANY CONFLICTS WITH THE CONSTRUCTION, NOTIFY THE ENGINEER.

COMMON EXCAVATION IN FRONT OF THE WALL MAY NOT BEGIN UNITL THE CONCRETE IN THE SOLDIER PILE FOOTING HAS REACHED DESIGN STRENGTH.

BACKFILL THE FRONT FACE OF WALL BEFORE THE BACK FACE.

CONTRACTOR SHALL SUPPLY A NAME PLATE IN ACCORDANCE WITH SECTION 520.3.11 OF THE STANDARD DETAILED DRAWING S.D.D.12A3-8. INCLUDE COST OF NAME PLATE AS INCIDENTAL.

SEE SHEET S1.4 FOR OTHER SOLDIER PILE WALL DETAILS.

FOR TIMBER LAGGING, USE MATERIALS THAT CONFORM TO TREATED LUMBER AS SPECIFIED IN SECTION 507 OF THE STANDARD SPECIFICATIONS.

WALL TABLE (SEE 1/S3.4)

PILE NUMBER [X]	BOTTOM OF FOOTING	TOP OF FOOTING/ BOTTOM OF LAGGING	APPROX. FINISHED GRADE AT F.F.	APPROX. TOP OF PILE	TOP OF CAP CHANNEL	CONCRETE SHAFT DIA. (IN.)	CONCRETE SHAFT LENGTH (FT.)	PILE LENGTH (FT.)	'W' PILE SIZE	WEIGHT (lb)
	ELEV A	ELEV B	ELEV C	ELEV D	ELEV E	DIA SD	DIST R			
1	102.00	114.00	119.50	122.25	122.25	30"	12.0'	20.25	W12x40	810
2	94.00	114.00	116.00	122.25	122.25	30"	20.0'	28.25	W12x40	1130
3	94.00	114.00	116.00	122.25	122.25	30"	20.0'	28.25	W12x40	1130
4	94.00	114.00	116.00	122.25	122.25	30"	20.0'	28.25	W12x40	1130
5	94.00	114.00	116.00	122.25	122.25	30"	20.0'	28.25	W12x40	1130
6	94.00	114.00	116.00	121.17	121.17	30"	20.0'	27.17	W12x40	1087
7	94.00	114.00	116.00	119.50	119.50	30"	20.0'	25.50	W12x40	1020
8	94.00	114.00	116.00	119.50	119.50	30"	20.0'	25.50	W12x40	1020

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PROJECT TITLE:
R-40-579 SOLDIER PILE RETAINING WALL

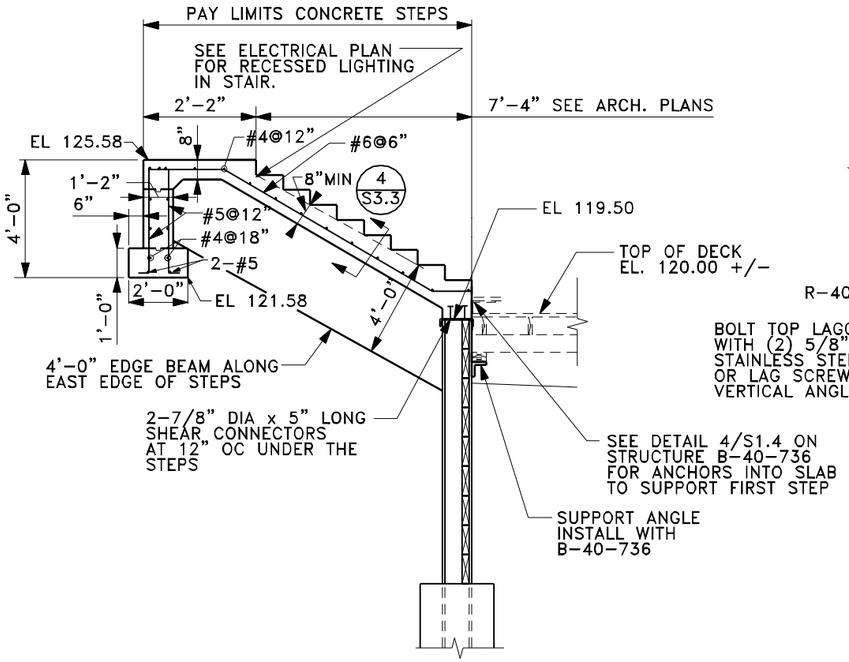
ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:
GENERAL NOTES AND QUANTITIES

SHEET NUMBER:
S3.2

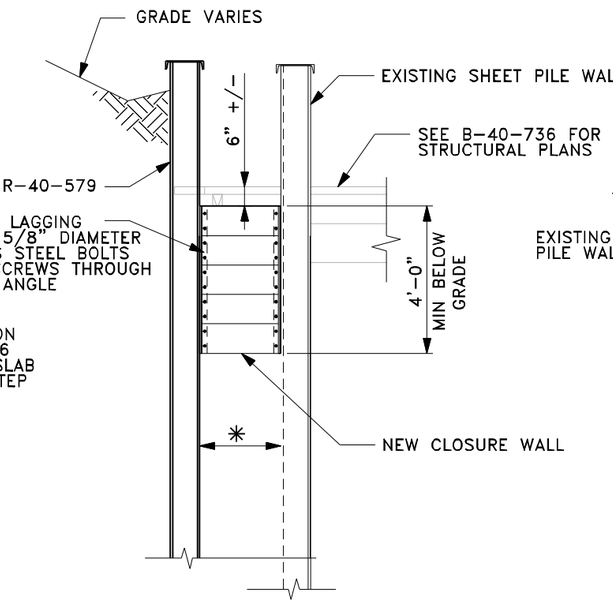


EAST STAIRS

LOOKING EAST

1 SECTION

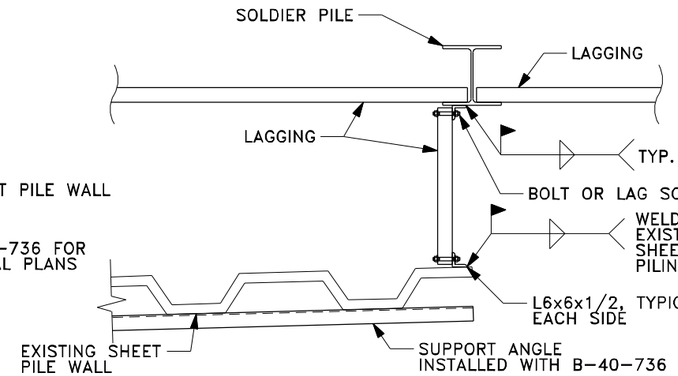
NOTE: ALL ELECTRICAL WORK AND DECORATIVE RAILING FOR R-40-579 IS INCLUDED IN STRUCTURE B-40-736.



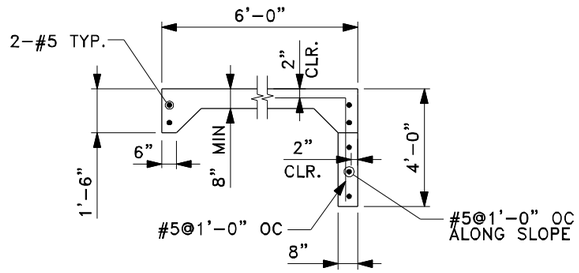
2 SECTION

LOOKING EAST

* FIELD VERIFY



3 SECTION



4 SECTION

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One Honey Creek Corporate Center
125 South 84th Street,
Suite 401
Milwaukee, WI 53214-1470
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PROJECT TITLE:

R-40-579 SOLDIER PILE RETAINING WALL

ISSUE:

PROJECT INFORMATION:

PROJECT NUMBER:	20080114.00
DATE:	12/11/08
DRAWN BY:	RBH
CHECKED BY:	JRS
APPROVED BY:	AML
SCALE:	

SHEET TITLE:

WALL SECTION AND DETAILS

SHEET NUMBER:

S3.3

6/7/2012
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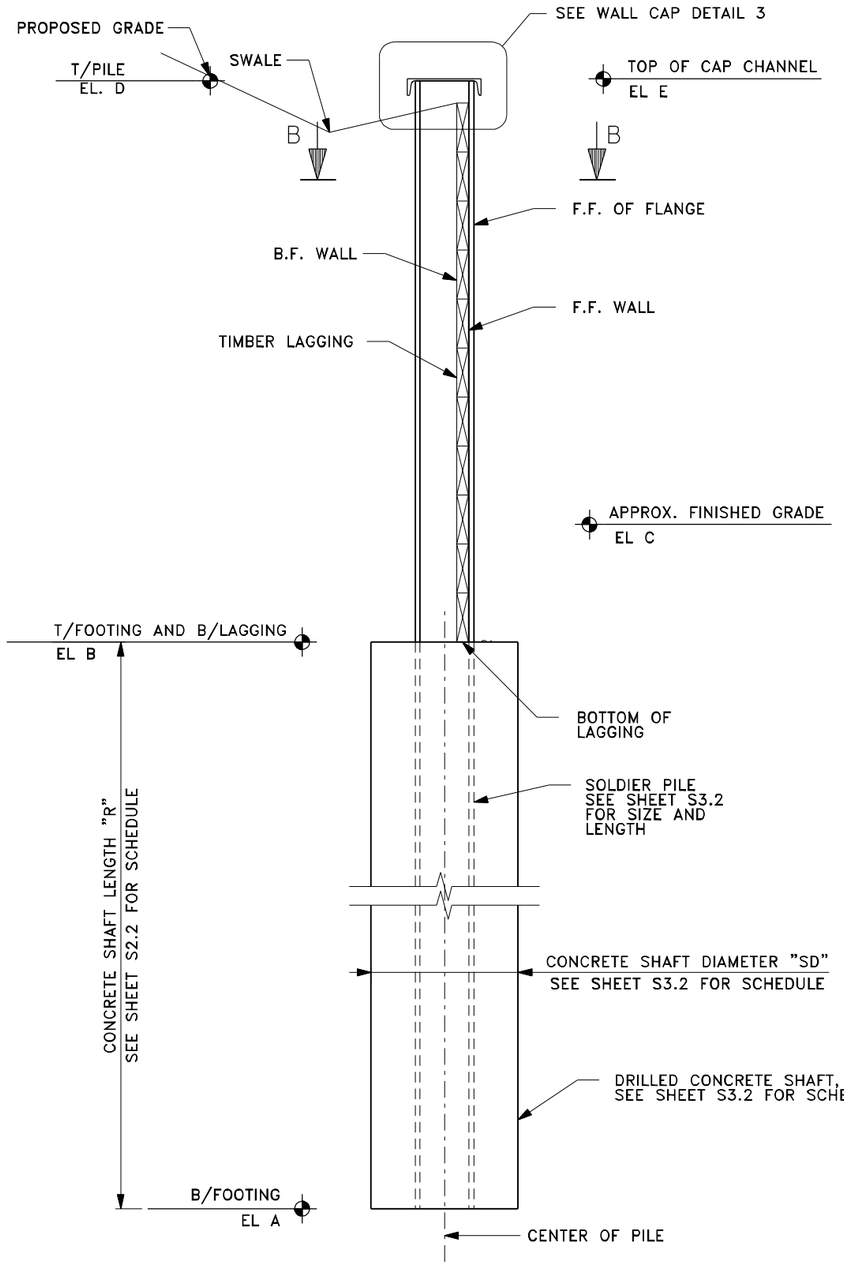
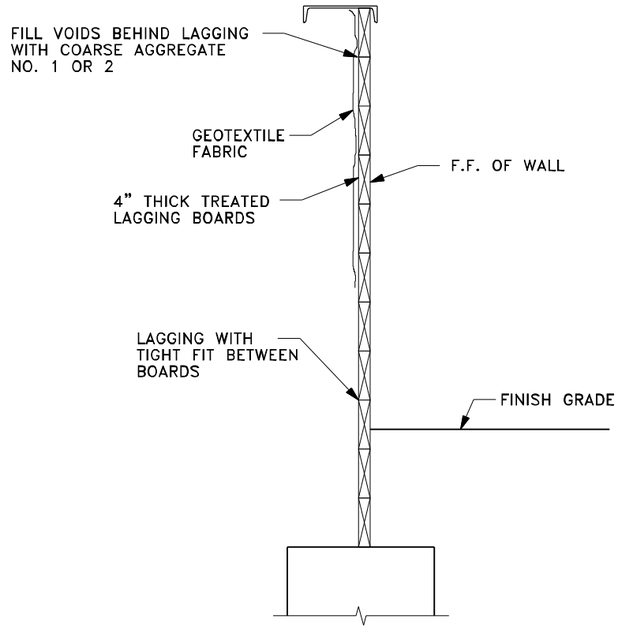
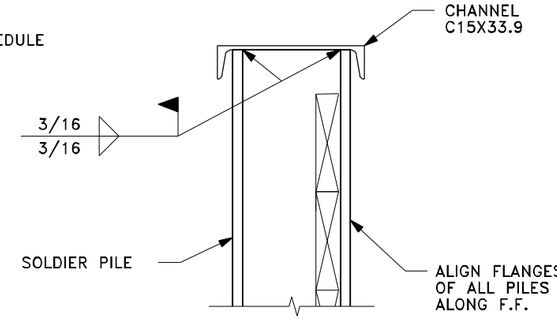


1 SECTION AT PILES

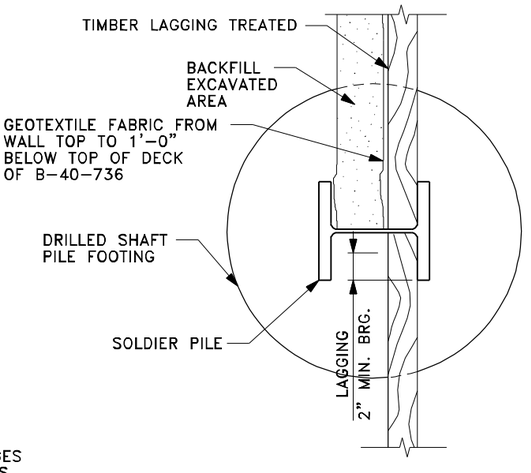
FOR ELEVATIONS AND LENGTH SHOWN ON THIS SECTION, SEE SHEET S3.2



2 SECTION BETWEEN PILES



3 WALL CAP DETAIL 3



SECTION B–B

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SCALE:	

SHEET TITLE:

WALL SECTION AND DETAILS

SHEET NUMBER:

S3.4