

LOCATION MAP
PHONECIA
7.5 MINUTE USGS TOPOGRAPHIC MAP
SCALE: 1" = 2000'

CONTRACT NO. TS-166

PANTHERKILL ROAD BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNOR'S OFFICE OF STORM RECOVERY

TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

TOWN OFFICIALS

ROBERT A. STANLEY, TOWN SUPERVISOR

TOWN COUNCIL

TIMOTHY MALLORY
FAYE STORMS
PETER DISCIAFANI
GAEL ALBA

JOYCE GRANT, TOWN CLERK

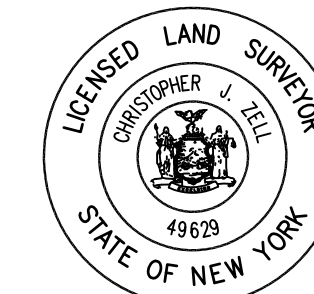
ERIC HOFMEISTER, HIGHWAY SUPERINTENDENT

JULY 2016

BRINNIER AND LARIOS, P. C.
PROFESSIONAL ENGINEERS AND LAND SURVEYORS

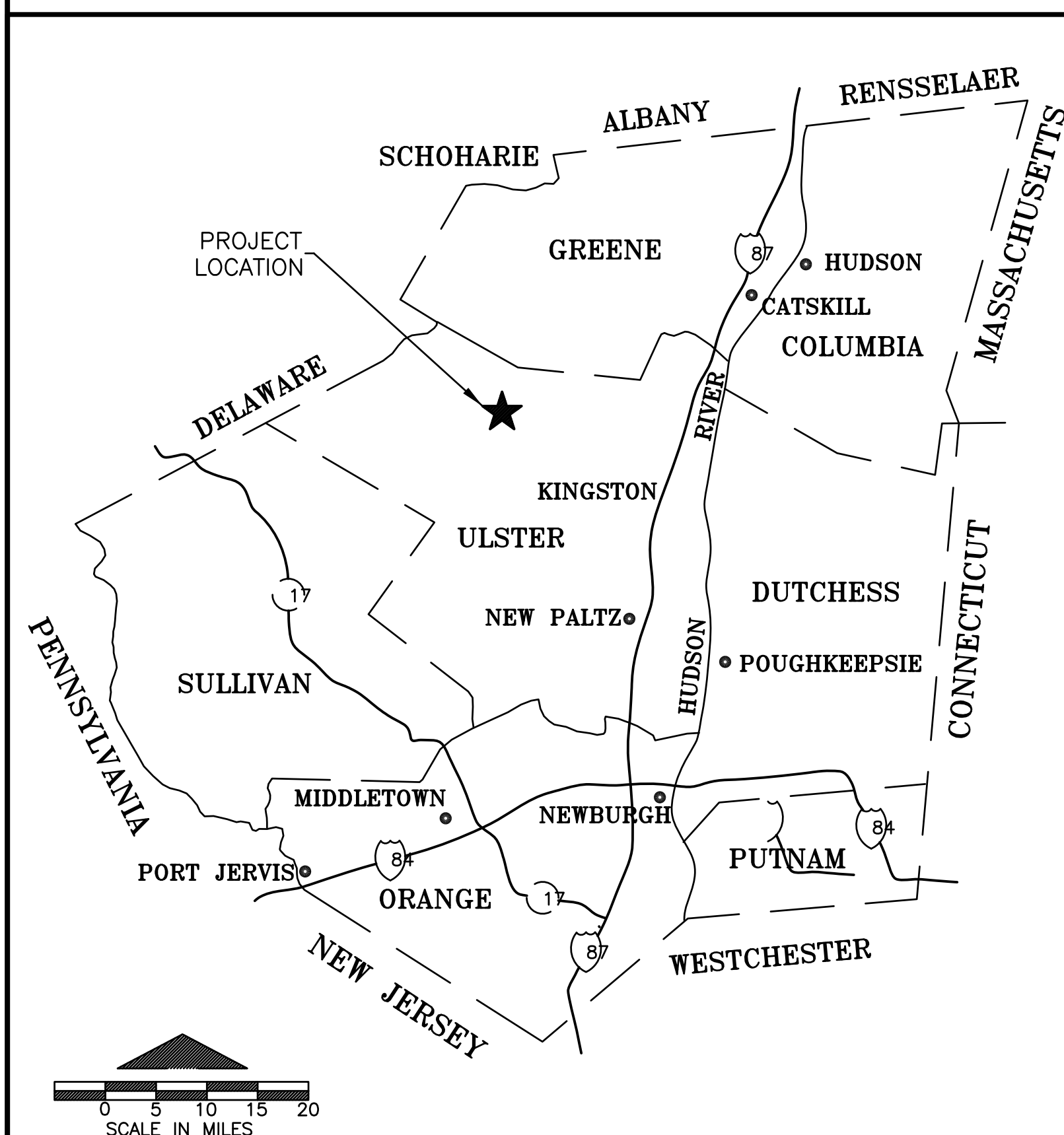
67 MAIDEN LANE
KINGSTON, NEW YORK
(845) 338-7622

Unauthorized alteration or addition to a plan
bearing a licensed engineer's seal is a
violation of section 7209, subdivision 2, of the
New York State Education Law.



SHEET INDEX

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C3.	STREAM PROTECTION AND DEMOLITION PLANS
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C6.	TEMPORARY BYPASS ROAD\STREAM PROTECTION - PHASE 2
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S4.	SECTIONS AND DETAILS
S5.	DETAILS
S6.	GUIDE RAIL PLAN
S7.	GUIDE RAIL DETAILS
S8.	SECTION AND DETAILS

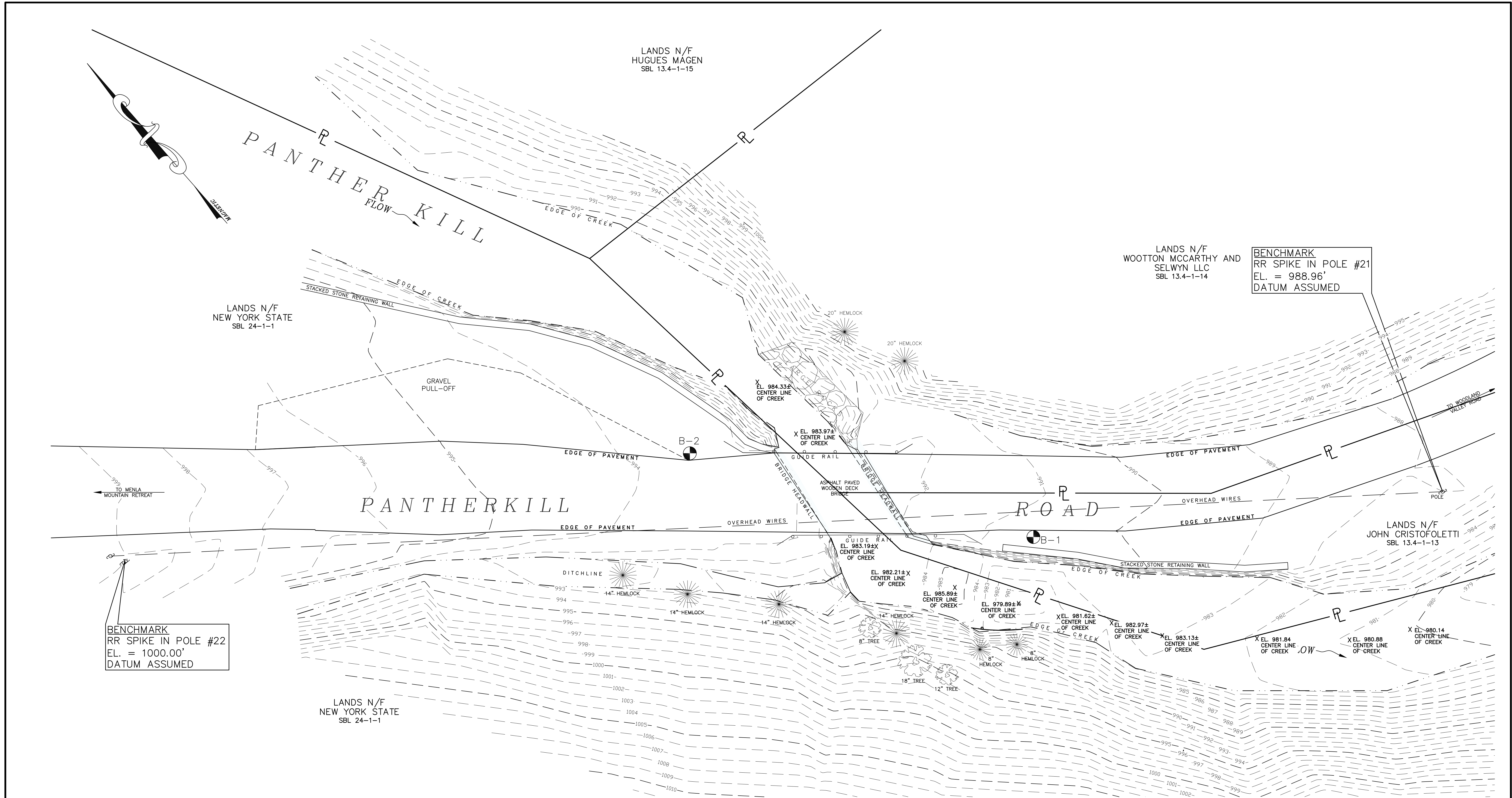


GENERAL LOCATION MAP



Know what's below.
Call before you dig.

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



EXISTING CONDITIONS
SCALE: 1" = 10'

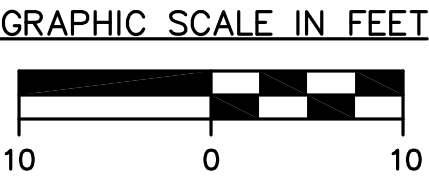
NOTE:
1. SEE SPECIFICATION SECTION 02200,
EARTHWORK FOR SOIL BORING LOGS

FIELD SURVEY BY BRINNIER AND LARIOS P. C. ON
JUNE 1, 2012, MAY 12, 2016 AND MAY 17, 2016.

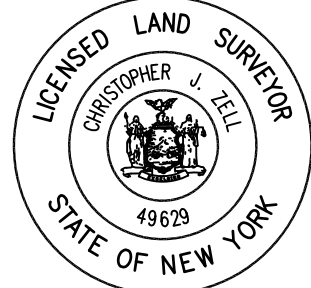
NOTE:
1. PROPERTY LINES ARE APPROXIMATE
AND WERE OBTAINED FROM THE
ULSTER COUNTY TAX MAPS.

NOTE:
The location of existing underground utilities are shown in an
approximate way only and have not been independently verified by
the owner or its representative. The contractor shall determine
the exact location of all existing utilities before commencing work,
and agrees to be fully responsible for any and all damages which
might be occasioned by the contractor's failure to exactly locate
and preserve any and all underground utilities.

LEGEND	
--- 1005 ---	EXISTING CONTOUR (MAJOR)
--- 1004 ---	EXISTING CONTOUR (MINOR)
--- P ---	PROPERTY LINE
	TREE
---	EDGE OF STREAM
---	GRAVEL ROAD
---	EXISTING ELECTRICAL LINES
	SOIL BORING LOCATION



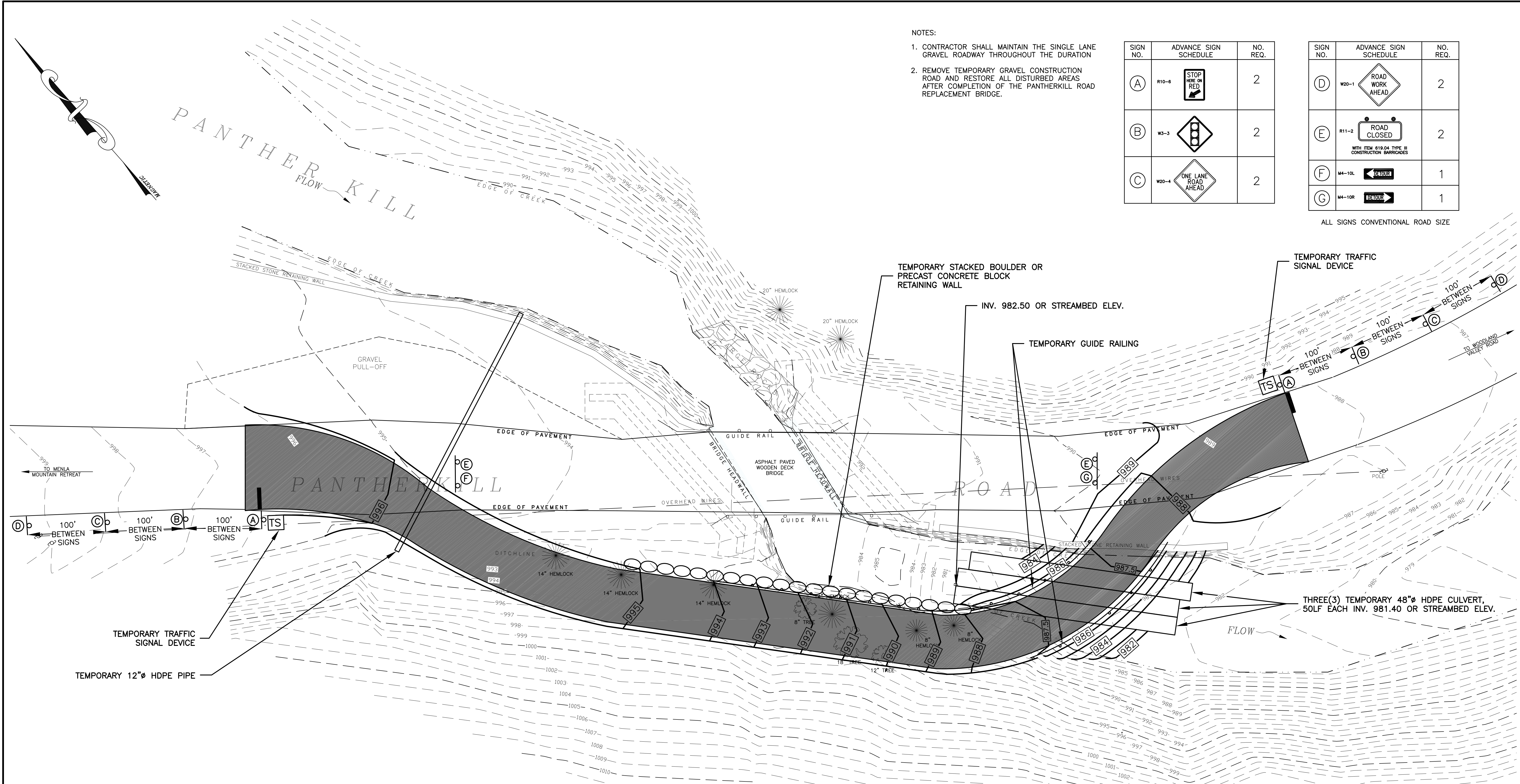
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EXISTING CONDITIONS
CONTRACT TS-166

PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY	
NEW YORK			
DATE	REVISION	RECORD	
		BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
1" = 10'	JULY 2016	JULY 2016	C1
DWG	RJS	CHK	DML



PHASE 1-TEMPORARY ACCESS ROAD PLAN

SCALE: 1" = 10'

LEGEND	
	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	PROPOSED TEMPORARY CONTOUR
	TREE
	EDGE OF STREAM
	GRAVEL ROAD
	TEMPORARY 12' WIDE GRAVEL ACCESS ROAD

- PHASING PLAN:
- PHASE 1 - TRAFFIC IS DETOURED TO THE 12' WIDE GRAVEL TEMPORARY ACCESS ROAD WHILE THE EXISTING BRIDGE IS REMOVED AND THE REPLACEMENT BRIDGE IS CONSTRUCTED.
- PHASE 2 - TRAFFIC IS DETOURED TO A SINGLE NORTH LANE ON THE REPLACED BRIDGE WHILE THE SOUTHEAST RETAINING WALL IS CONSTRUCTED. (SEE SHEET C6 FOR PHASE 2 TRAFFIC DETOUR DETAILS)

- NOTES:
1. CONTRACTOR SHALL MAINTAIN THE SINGLE LANE GRAVEL ROADWAY THROUGHOUT THE DURATION
2. REMOVE TEMPORARY GRAVEL CONSTRUCTION ROAD AND RESTORE ALL DISTURBED AREAS AFTER COMPLETION OF THE PANTHERKILL ROAD REPLACEMENT BRIDGE.

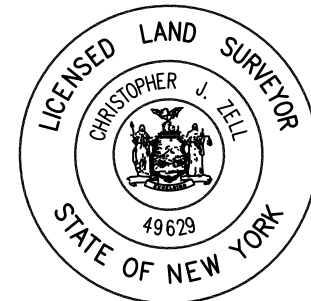
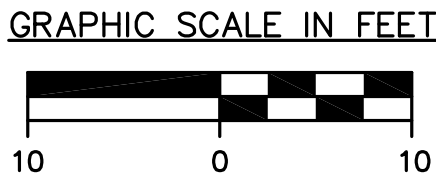
SIGN NO.	ADVANCE SIGN SCHEDULE	NO. REQ.
(A)	R10-6	2
(B)	W3-3	2
(C)	W20-4	2

SIGN NO.	ADVANCE SIGN SCHEDULE	NO. REQ.
(D)	W20-1	2
(E)	R11-2 WITH ITEM 619.04 TYPE III CONSTRUCTION BARRICADES	2
(F)	M4-10L	1
(G)	M4-10R	1

ALL SIGNS CONVENTIONAL ROAD SIZE

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TEMPORARY ACCESS ROAD PLAN
CONTRACT TS-166

PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK	
DATE	REVISION	RECORD	
BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660		SCALE 1" = 10'	
DATE JULY 2016		CHK RJS	DML
SHEET NO. C2			



STREAM PROTECTION NOTES:

- ### LEGEND

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NOT TO SCALE

DEMOLITION PLAN – PHASE 1

GRAPHIC SCALE IN FEET



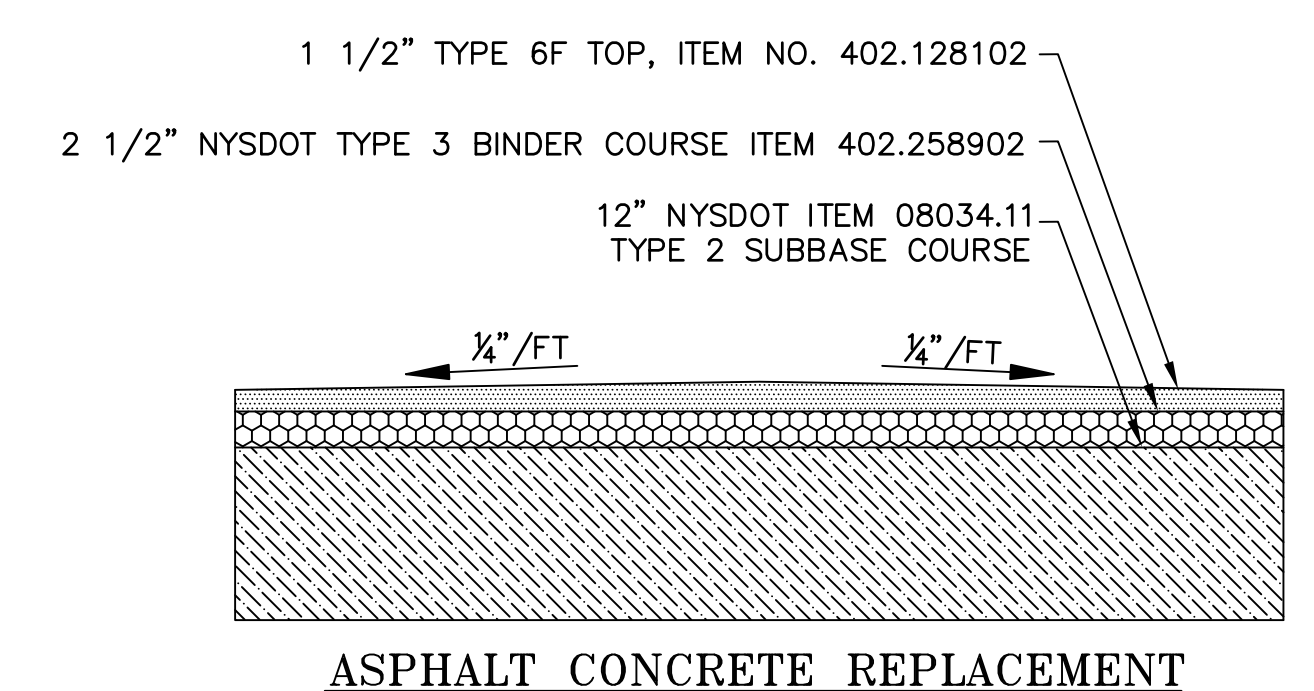
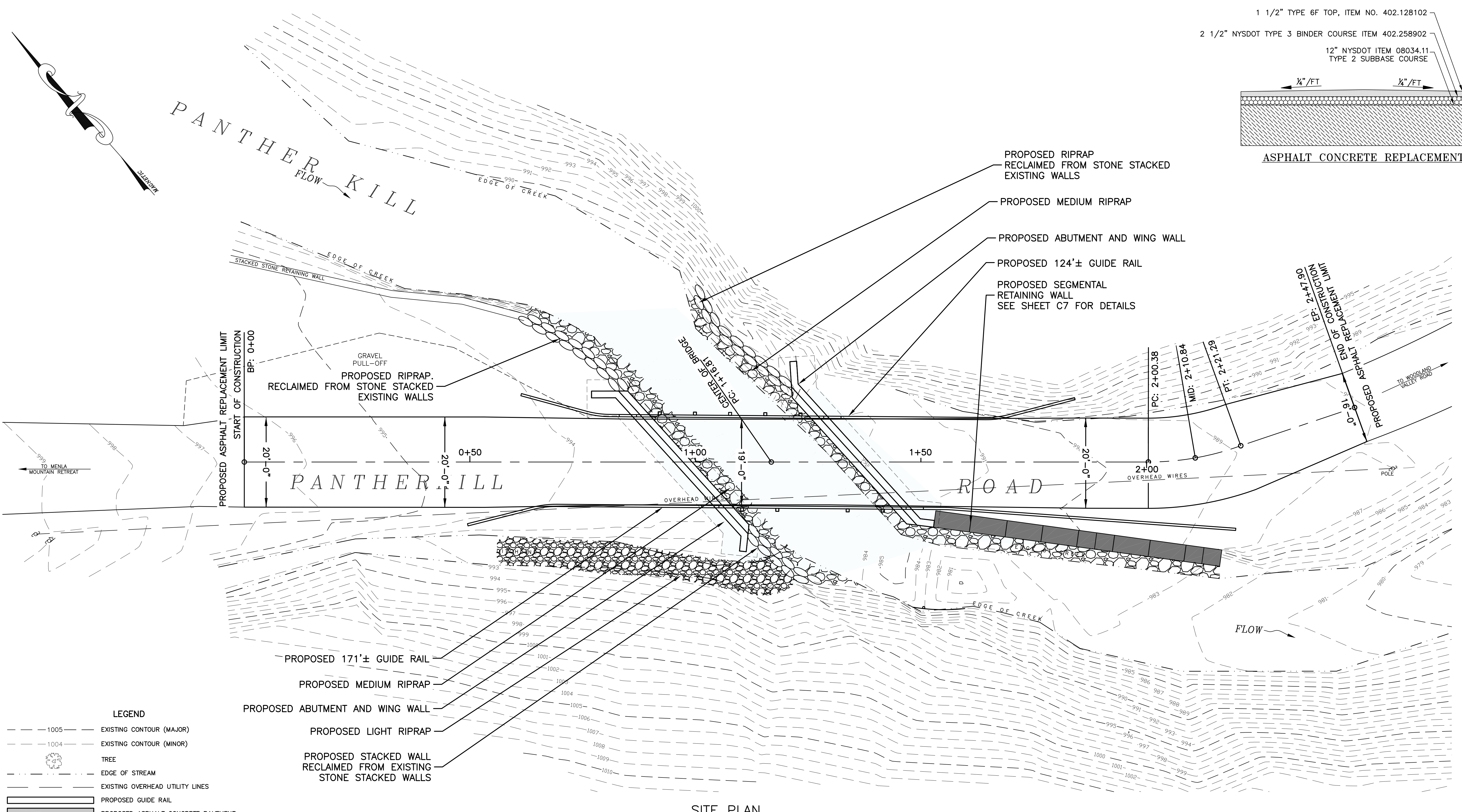
- 

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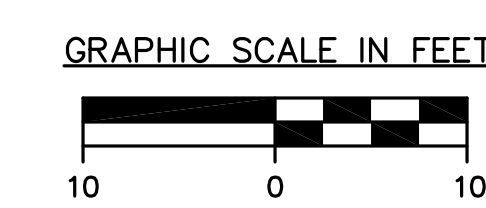
PANTHERKILL BRIDGE REPLACEMENT					
NY RISING COMMUNITY RECONSTRUCTION PROGRAM					
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY					
TOWN OF SHANDAKEN			ULSTER COUNTY		NEW YORK
DATE	REVISION	RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660		
SCALE			DATE	SHEET NO.	
1" = 20'			JULY 2016	C3	
			DWG RJS		



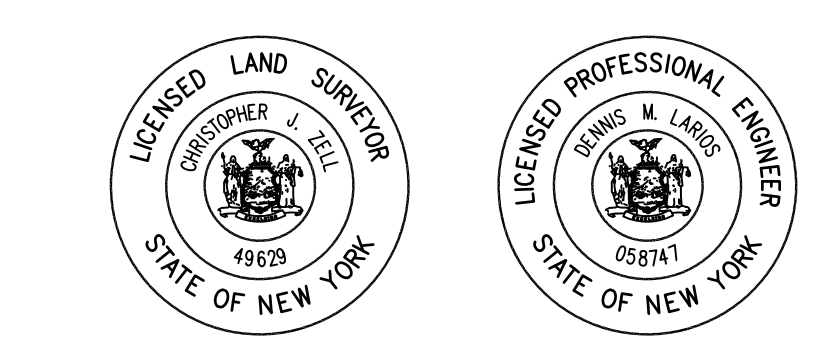
- LEGEND**
- 1005 — EXISTING CONTOUR (MAJOR)
 - 1004 — EXISTING CONTOUR (MINOR)
 - TREE
 - - - - - EDGE OF STREAM
 - - - - - EXISTING OVERHEAD UTILITY LINES
 - PROPOSED GUIDE RAIL
 - PROPOSED ASPHALT CONCRETE PAVEMENT
 - PROPOSED LIGHT RIPRAP
 - PROPOSED RIPRAP
 - PROPOSED RETAINING WALL
 - PROPOSED STACKED STONE WALL
 - PROPOSED TRAFFIC SIGN

SITE PLAN
SCALE: 1" = 10'

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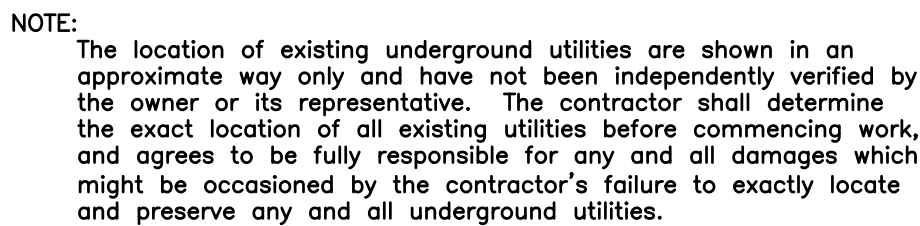
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15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



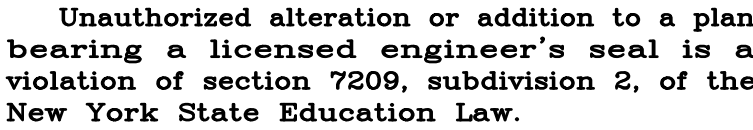
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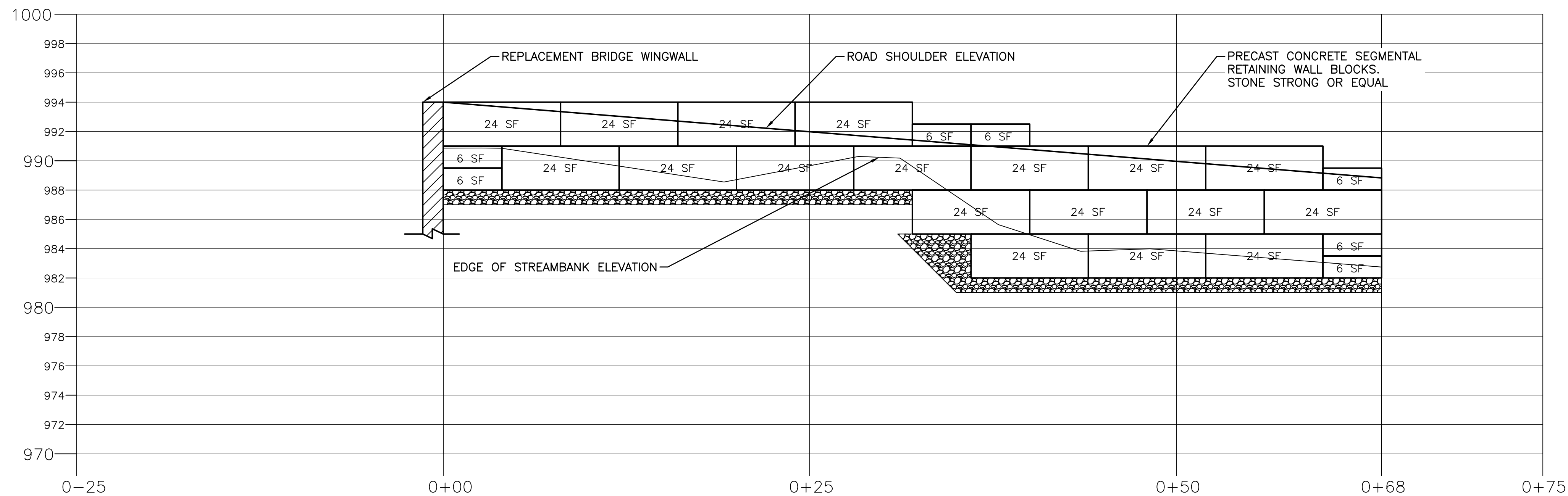
SITE PLAN
CONTRACT VSA - 166

PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK	
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SCALE 1" = 10'	DATE JULY 2016 DWG RJS	CHK DML	SHEET NO. C4



<p align="center">PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY</p>			
TOWN OF SHANDAKEN		ULSTER COUNTY	
		NEW YORK	
DATE	REVISION	<p align="center">BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660</p>	
SCALE		DATE	SHEET NO.
1" = 10'		JULY 2016	C5
		DWG RJS	
		CHK DML	

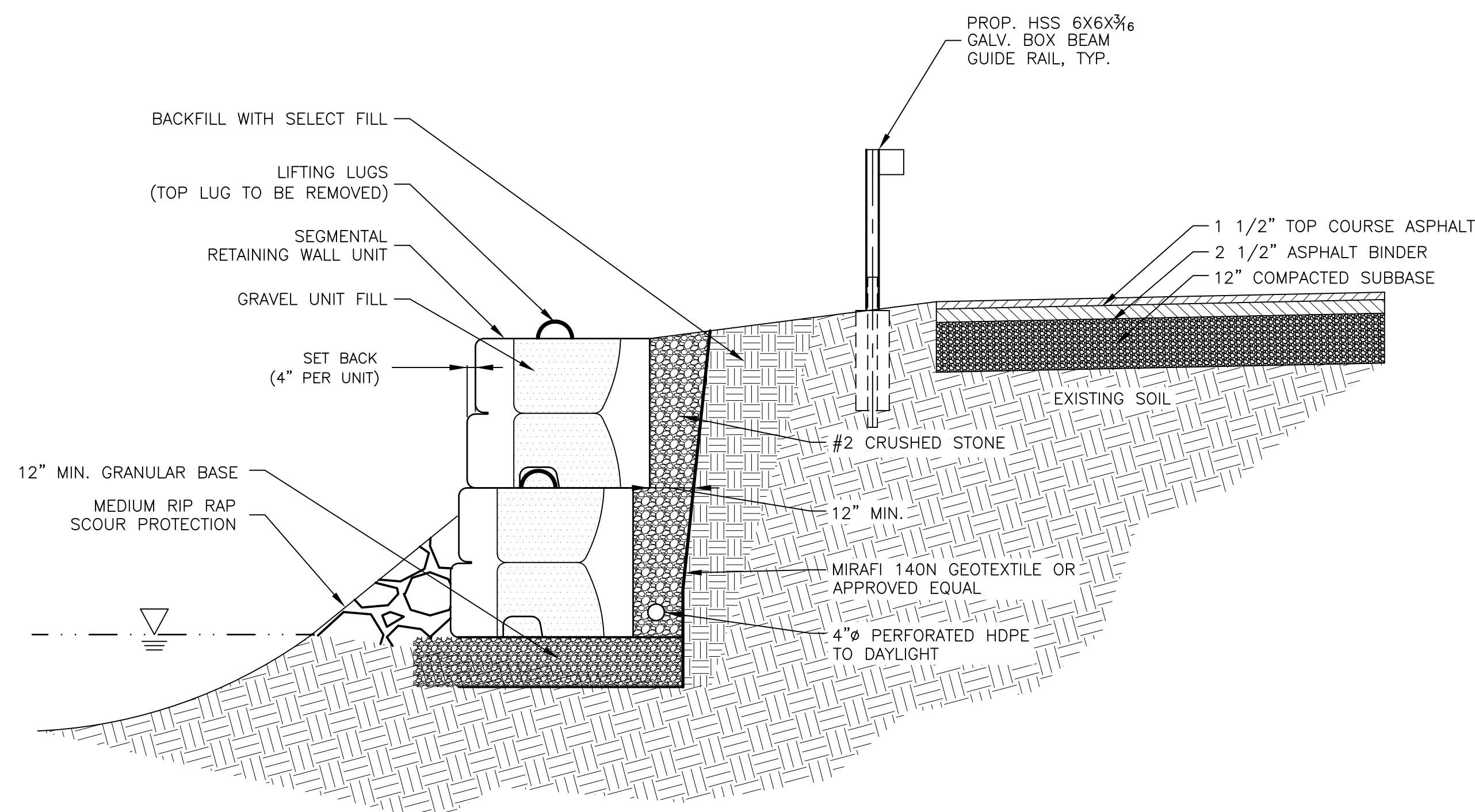
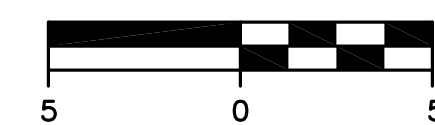




PROFILE VIEW

HORIZONTAL SCALE: 1" = 5'
VERTICAL SCALE: 1" = 5'
VERTICAL EXAGGERATION: 0

GRAPHIC SCALE IN FEET

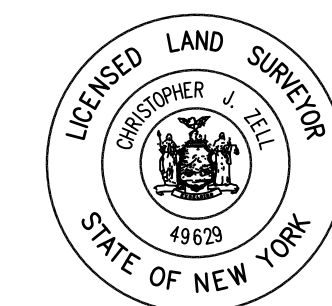


TYPICAL CROSS SECTION

NOT TO SCALE

SEGMENTAL RETAINING WALL PLAN CONTRACT TS-166

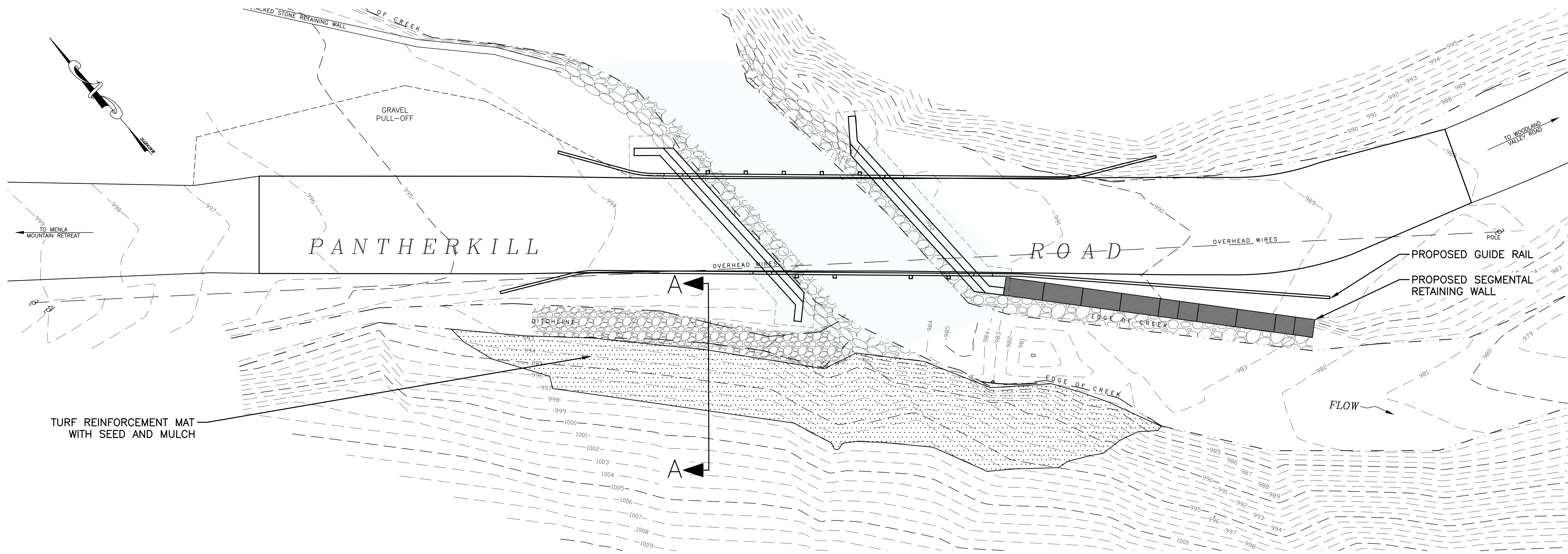
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15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



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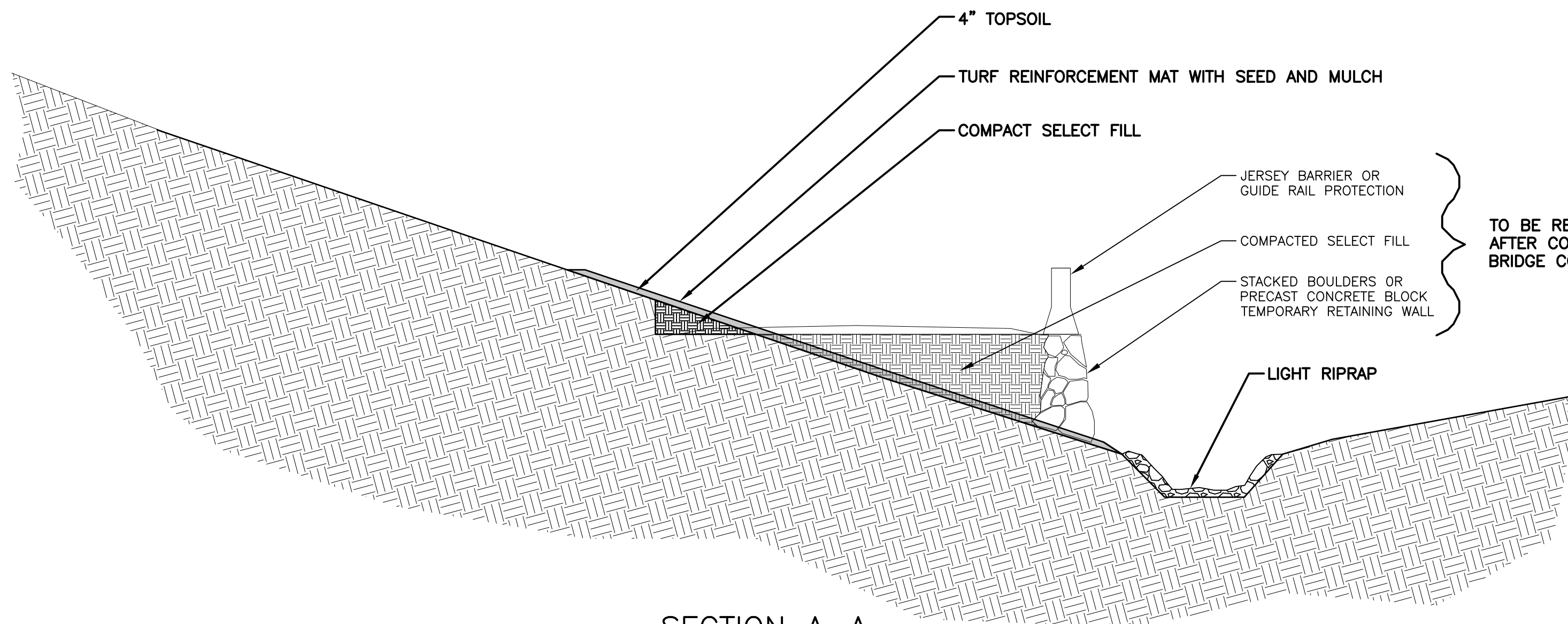
PANTHERKILL BRIDGE REPLACEMENT				
NY RISING COMMUNITY RECONSTRUCTION PROGRAM				
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY				
TOWN OF SHANDAKEN		ULSTER COUNTY		NEW YORK
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	SCALE	DATE	SHEET NO.	
	AS SHOWN	JULY 2016	C7	
	DWG RJS	CHK DML		

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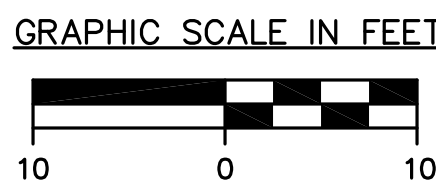
STATE LAND RESTORATION
SCALE: 1" = 10'

- LEGEND
- 1005 ——— EXISTING CONTOUR (MAJOR)
 - 1004 ——— EXISTING CONTOUR (MINOR)
 - 1000 ——— PROPOSED CONTOURS
 - TREE
 - — — — — EDGE OF STREAM
 - — — — — EXISTING OVERHEAD UTILITY LINES
 - PROPOSED GUIDE RAIL
 - PROPOSED ASPHALT CONCRETE PAVEMENT
 - PROPOSED LIGHT RIPRAP
 - PROPOSED RIPRAP
 - PROPOSED RETAINING WALL
 - PROPOSED STACKED STONE WALL
 - PROPOSED TRAFFIC SIGN
 - TRM GROWTH MAT

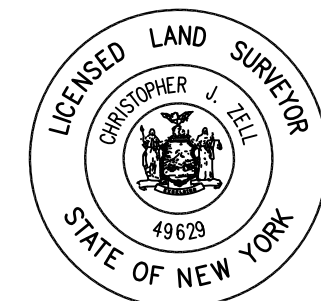


SECTION A-A
NOT TO SCALE

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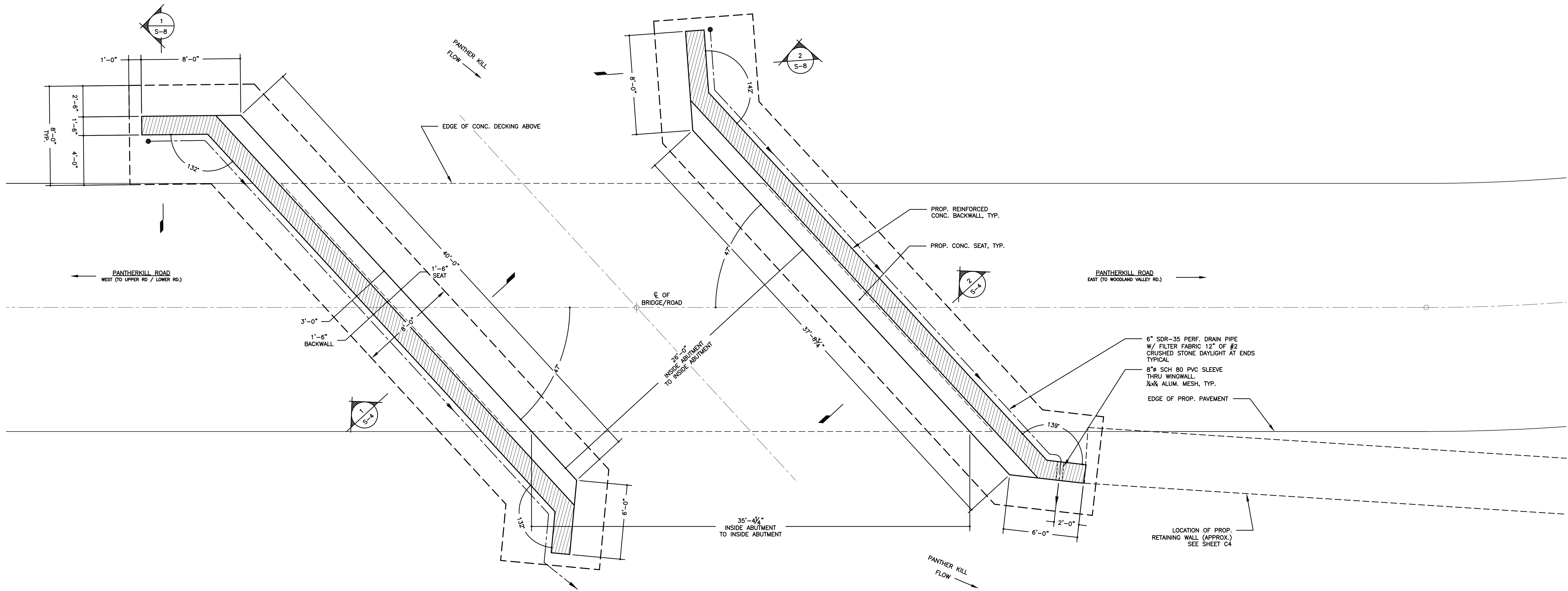
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15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



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STATE LAND RESTORATION
CONTRACT TS - 166

PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK	
DATE	REVISION	RECORD	
		BRINNIER & LARIOS, P.C.	
		ENGINEERS & LAND SURVEYORS	
		67 MAIDEN LANE KINGSTON, N.Y.	
		Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	SHEET NO.	
AS SHOWN	JULY 2016	C8	
DWG	CHK		
RJS	DML		



STRUCTURAL NOTES

1 PROPOSED BRIDGE FRAMING PLAN
S-1 SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. ALL DIMENSIONS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
3. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
5. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, IF ANY, BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND UTILITIES.
6. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL.
7. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
8. VERIFY SIZE AND LOCATION OF OPENINGS. FOR DIMENSIONS AND OPENINGS NOT SHOWN, SEE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.

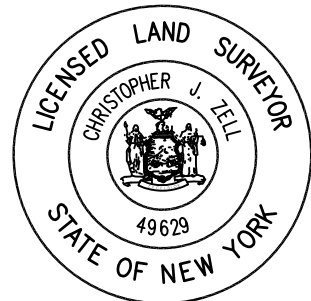
DESIGN DATA:
STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
A) AISC, MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, 9TH ED.
1. TRAFFIC LOADS
H20 TRUCK LOADING IN ACCORDANCE WITH AASHTO STANDARDS
2. DEAD LOADS
CONCRETE FLOOR: = 12.5 PSF PER INCH THICKNESS OF CONC. x 7" = 87.50 PSF
PAVEMENT = 25 PSF.
FUTURE WEARING COURSE = 25 PSF.

ABBREVIATIONS
A.B.....ANCHOR BOLT
A.O.B.E.....AS ORDERED BY ENGINEER
B.P.....BASE PLATE
COLS.....COLUMNS
do.....DITTO
E.O.....EVERY OTHER
E.W.....EACH WAY
EXP.....EXPANSION
FONL.....FOUNDATION
F.G.....FINISHED GRADE
HDR.....HEADER
HSS.....HOLLOW STRUCTURAL SHAPE (A.I.S.C.)
JT.....JOINT
LLV.....LONG LEG VERTICAL
PAF.....POWDER ACTUATED FASTENER
P.C.....PRE-CAST
PERF.....PERFORATED
PL.....PLATE
R/C.....REINFORCED CONCRETE
REINF.....REINFORCEMENT
S.L.....SELF-LEVELING
SLV.....SHORT LEG VERTICAL
S.O.G.....SLAB ON GRADE
STL.....STEEL
T/FTG.....TOP OF FOOTING
T/WALL.....TOP OF WALL
T&S.....TEMPERATURE AND SHRINKAGE
U.N.O.....UNLESS NOTED OTHERWISE
W.C.J.....WALL CONTROL JOINT

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NOTE: ALL DESIGN DIMENSIONS NOTED ON PLANS ARE BASED ON FABRICATION AND INSTALLATION OF STRUCTURAL ELEMENTS AT AN AMBIENT TEMPERATURE OF 68 DEGREES FAHRENHEIT

JOHN STINEMIRE, P.E., CONSULTING ENGINEER
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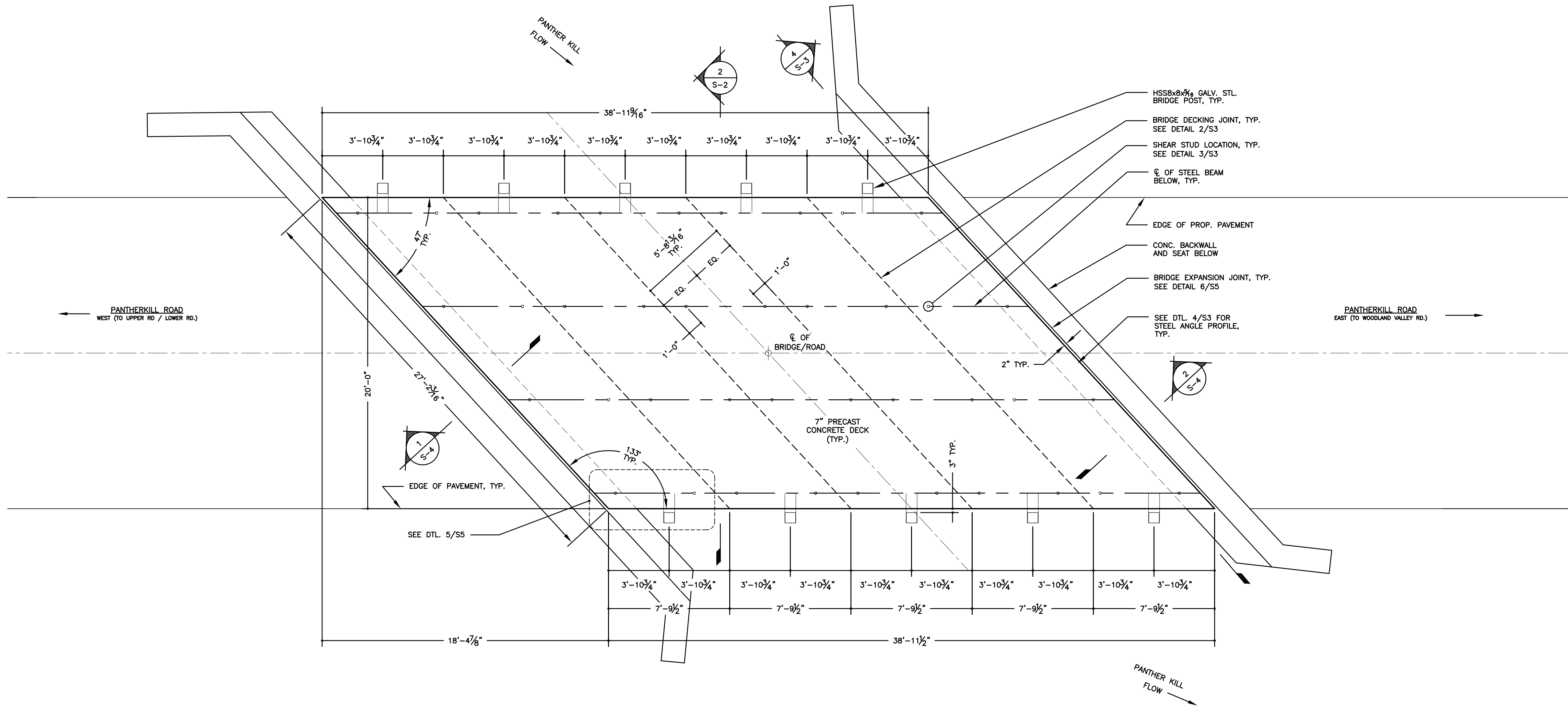


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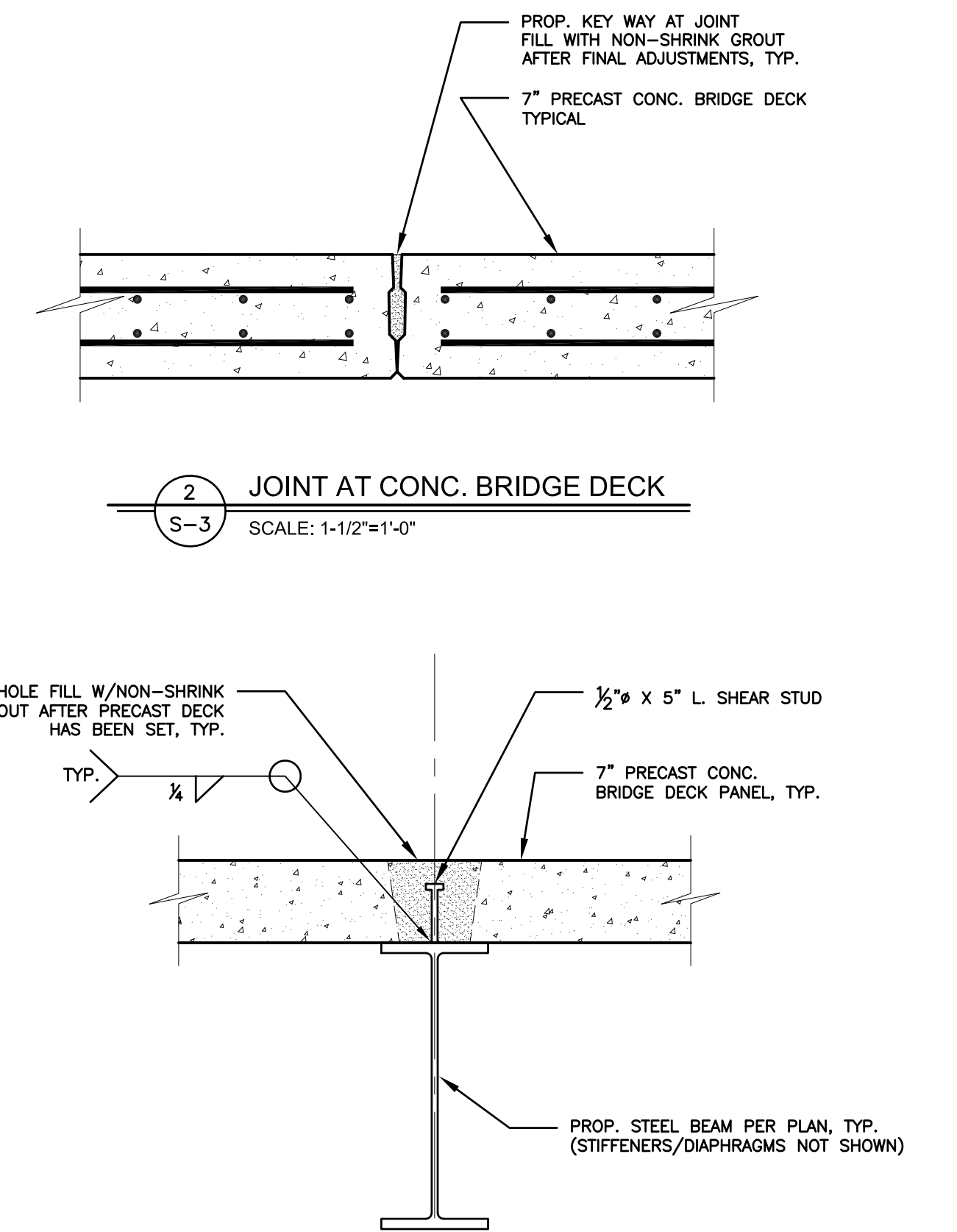
FOUNDATION PLAN
& STRUCTURAL NOTES
CONTRACT TS - 166

PANTHERKILL BRIDGE REPLACEMENT
NY RISING COMMUNITY RECONSTRUCTION PROGRAM
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY
TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

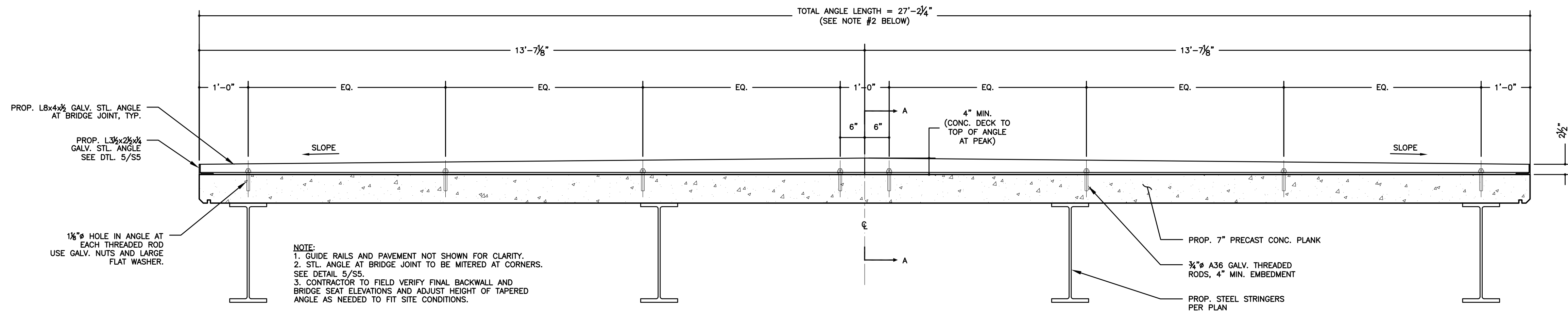
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		SCALE	DATE	SHEET NO.
		AS SHOWN	JULY 2016	S1
		DWG	CHK	
		JH	JES	



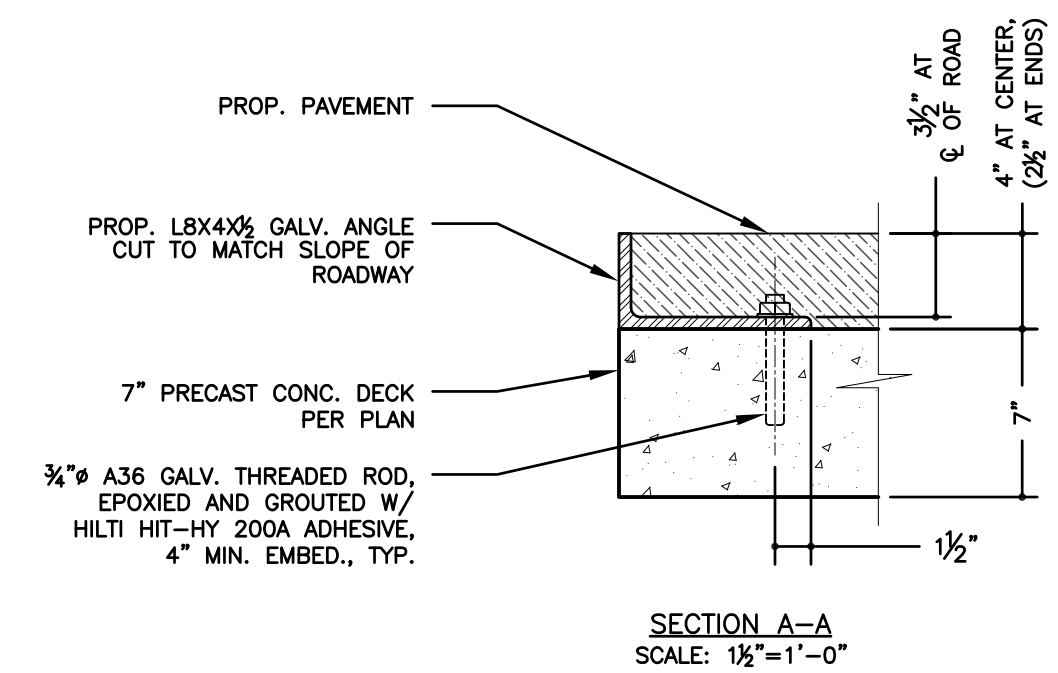
1 PRECAST CONC. PANEL DECK PLAN
S-3 SCALE: 1/4" = 1'-0"



2 JOINT AT CONC. BRIDGE DECK
S-3 SCALE: 1-1/2" = 1'-0"



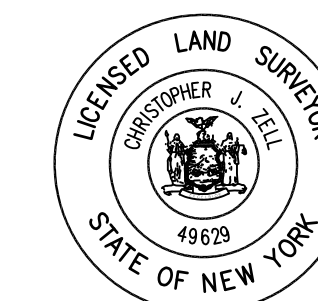
3 STEEL ANGLE DETAIL
S-3 SCALE: 3/4" = 1'-0"



4 PRECAST DECK PANEL PLAN
CONTRACT TS - 166

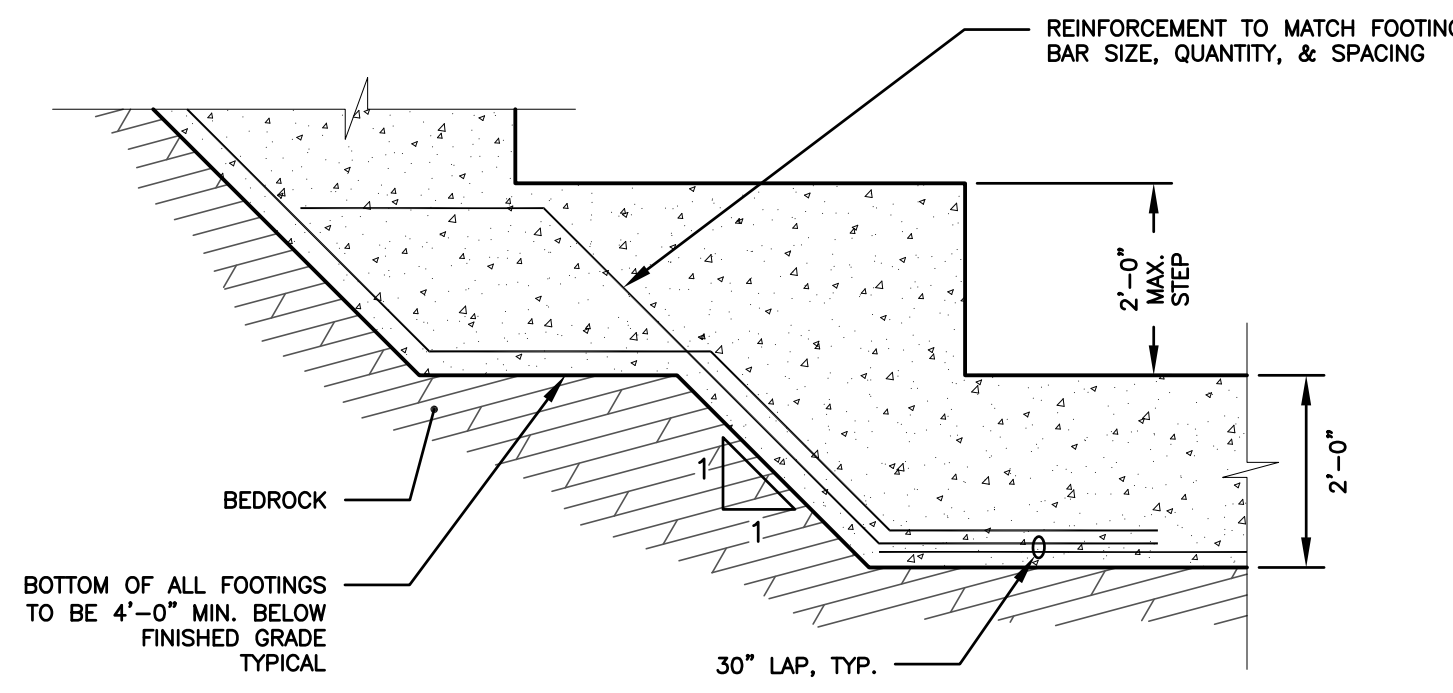
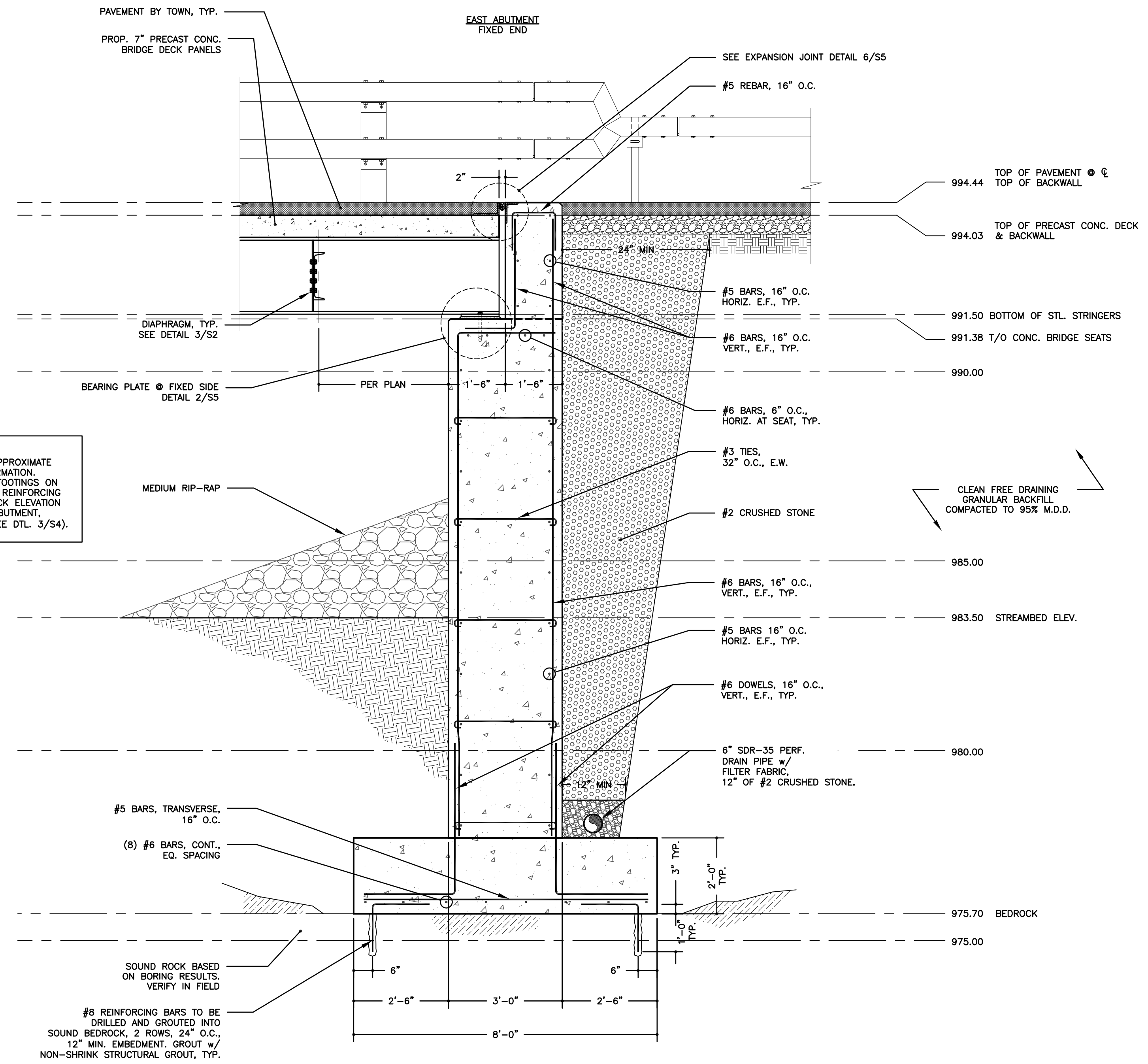
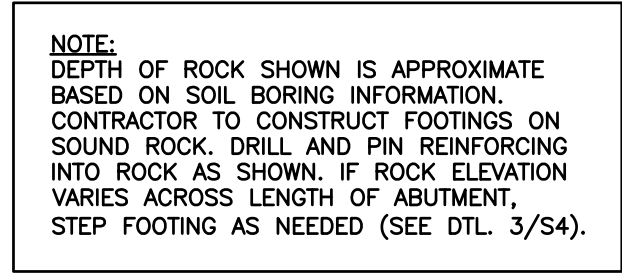
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15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806

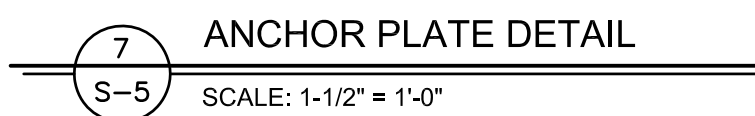
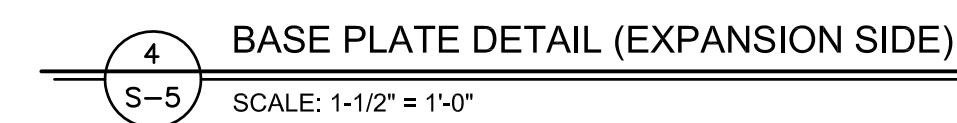


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PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK	
DATE	REVISION RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660	
SCALE	DATE	DATE	SHEET NO.
AS SHOWN	JULY 2016	JULY 2016	S3
	DWG	CHK	
	JH	JES	

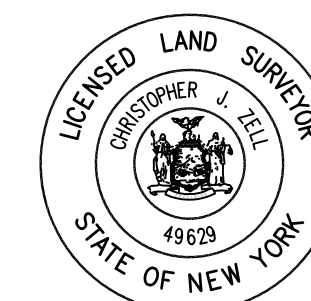


PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY					
TOWN OF SHANDAKEN		ULSTER COUNTY			
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		SCALE	DATE	SHEET NO.	
		AS SHOWN	JULY 2016		
			DWG		CHK
			JH	JES	S4



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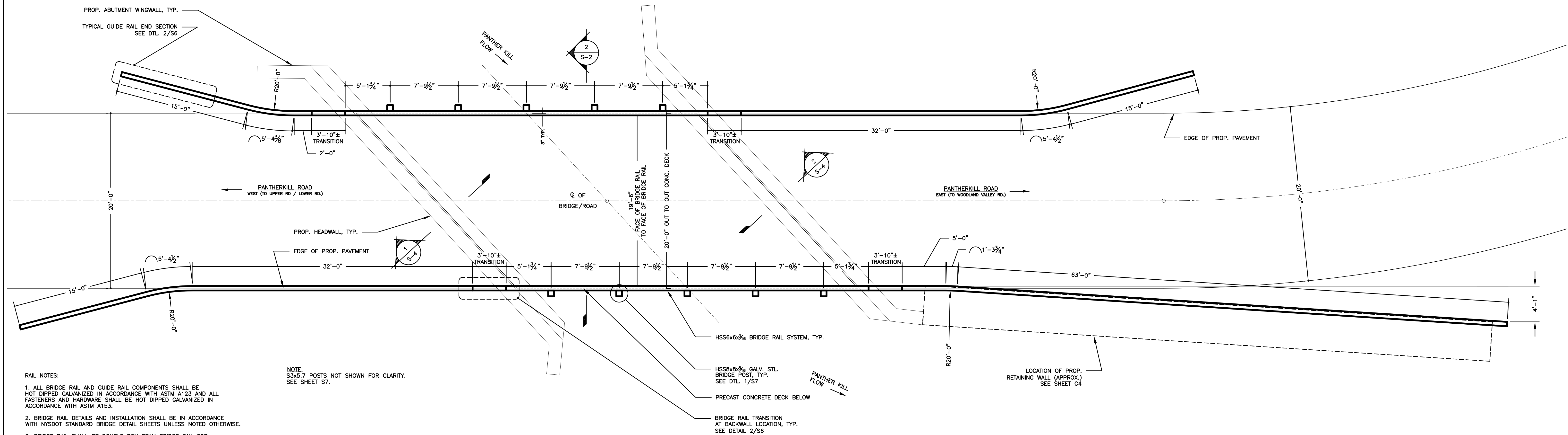
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DETAILS
CONTRACT TS - 166

PANTHERKILL BRIDGE REPLACEMENT
NY RISING COMMUNITY RECONSTRUCTION PROGRAM
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY

TOWN OF SHANDAKEN ULSTER COUNTY NEW YORK

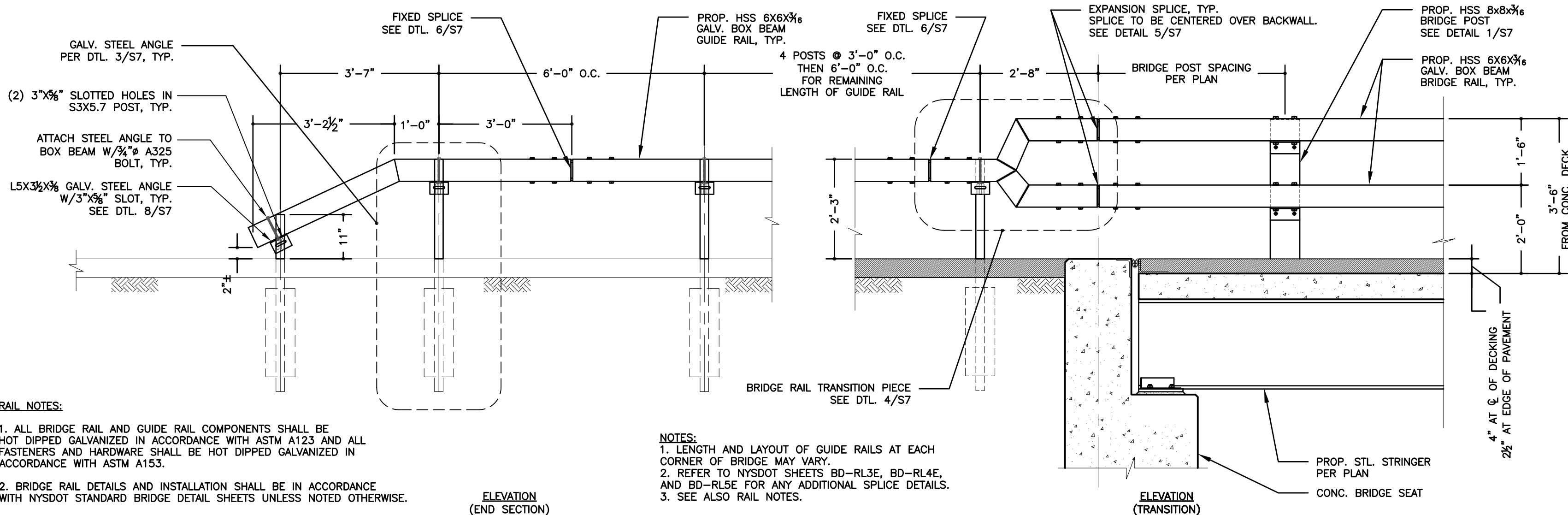
DATE	REVISION	RECORD	BRINNIER & LARIOS, P.C. ENGINEERS & LAND SURVEYORS 67 MAIDEN LANE KINGSTON, N.Y. Phone: 845-338-7622 Fax: 845-338-7660		
			SCALE	DATE	SHEET NO.
			AS SHOWN	JULY 2016	S5
			DWG. CHK. DES.	JH. JES.	



- RAIL NOTES:**
1. ALL BRIDGE RAIL AND GUIDE RAIL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
 2. BRIDGE RAIL DETAILS AND INSTALLATION SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD BRIDGE DETAIL SHEETS UNLESS NOTED OTHERWISE.
 3. BRIDGE RAIL SHALL BE DOUBLE BOX BEAM BRIDGE RAIL FOR LOW VOLUME BRIDGES IN ACCORDANCE WITH NYSDOT STANDARD SHEETS BD-RL3E, RL4E AND RL5E.
 4. GUIDE RAIL FROM THE BRIDGE TRANSITION RAIL TO THE END SECTION SHALL BE BOX BEAM GUIDE RAIL WITH A TYPE IIA END ASSEMBLY CONSISTANT WITH NYSDOT STANDARD SHEET NUMBER 606-04 SHEET 1 THRU 4.

NOTE:
S3x5.7 POSTS NOT SHOWN FOR CLARITY.
SEE SHEET S7.

1
S-6 **BRIDGE/GUIDE RAIL PLAN**
SCALE: 3/16" = 1'-0"



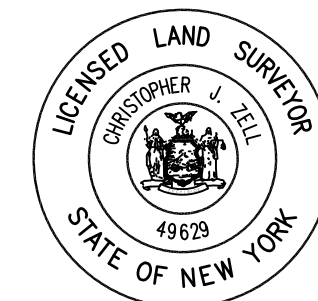
- RAIL NOTES:**
1. ALL BRIDGE RAIL AND GUIDE RAIL COMPONENTS SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ALL FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
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NOTES:
1. LENGTH AND LAYOUT OF GUIDE RAILS AT EACH CORNER OF BRIDGE MAY VARY.
2. REFER TO NYSDOT SHEETS BD-RL3E, BD-RL4E, AND BD-RL5E FOR ANY ADDITIONAL SPLICE DETAILS.
3. SEE ALSO RAIL NOTES.

2
S-6 **TYP. GUIDE RAIL TERMINATION DETAIL**
SCALE: 1/2"=1'-0"

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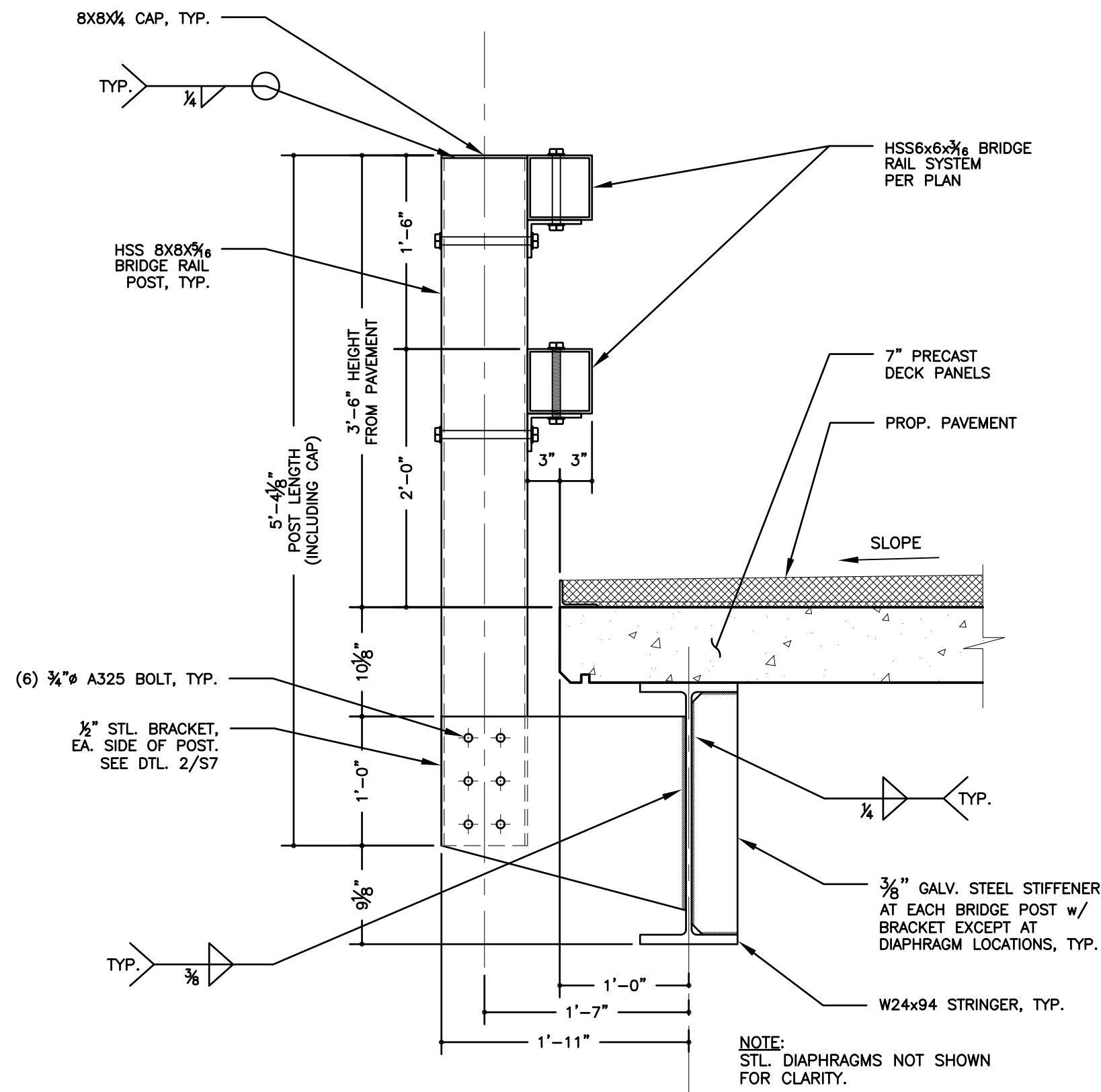
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15 RAILROAD AVENUE KINGSTON, NEW YORK 12401 845-331-8806



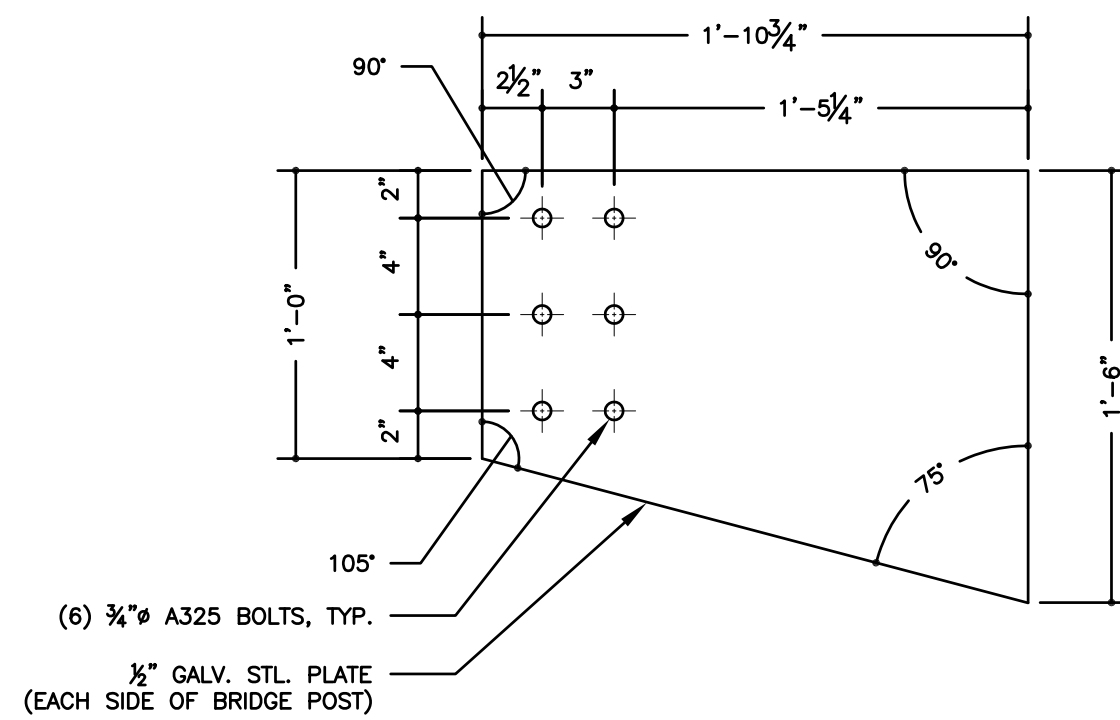
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GUIDE RAIL PLAN
CONTRACT TS - 166

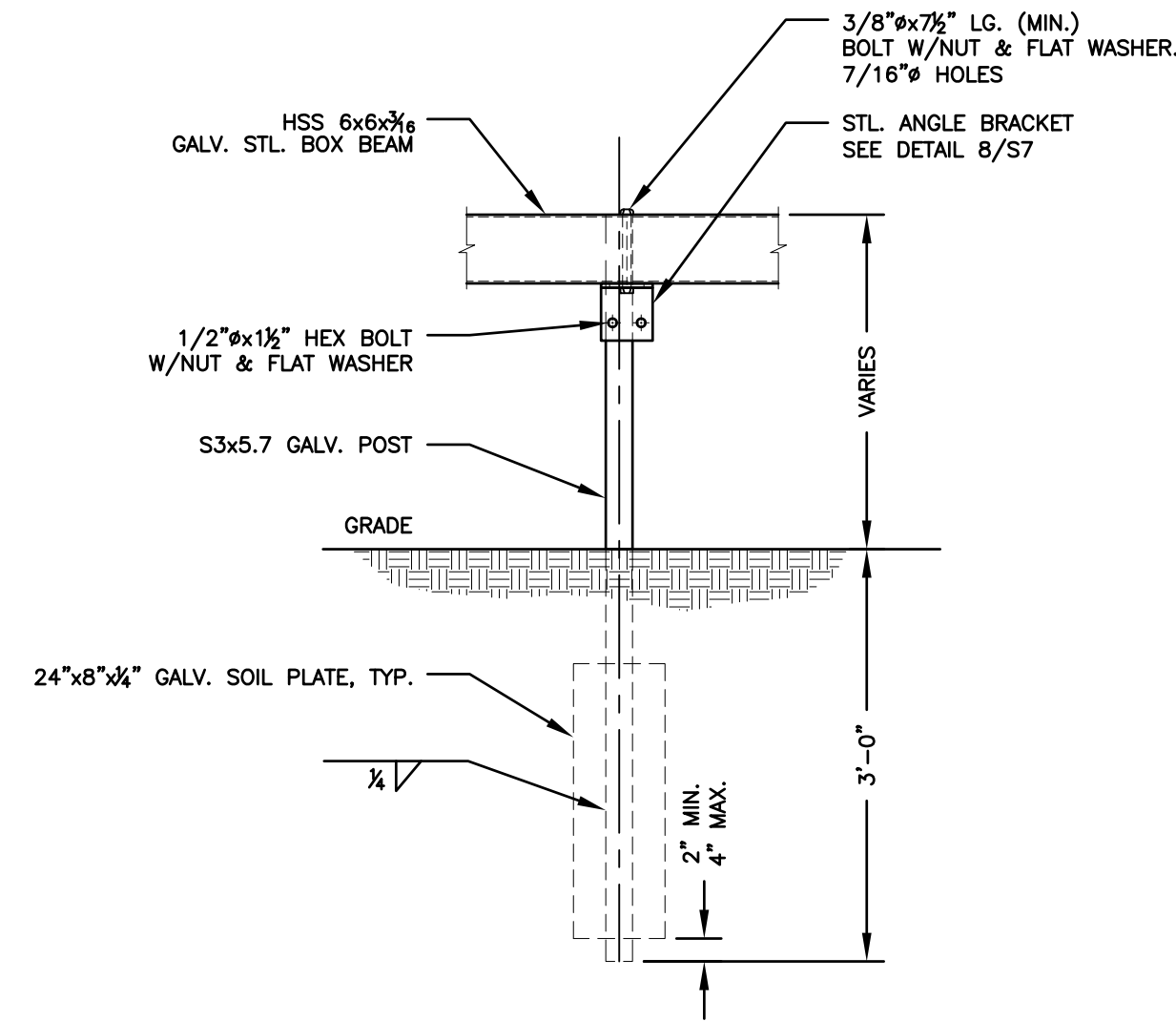
PANTHERKILL BRIDGE REPLACEMENT				
NY RISING COMMUNITY RECONSTRUCTION PROGRAM				
NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY				
TOWN OF SHANDAKEN		ULSTER COUNTY		
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		SCALE	DATE JULY 2016	SHEET NO.
		AS SHOWN	DWG JH	CHK JES
				S6



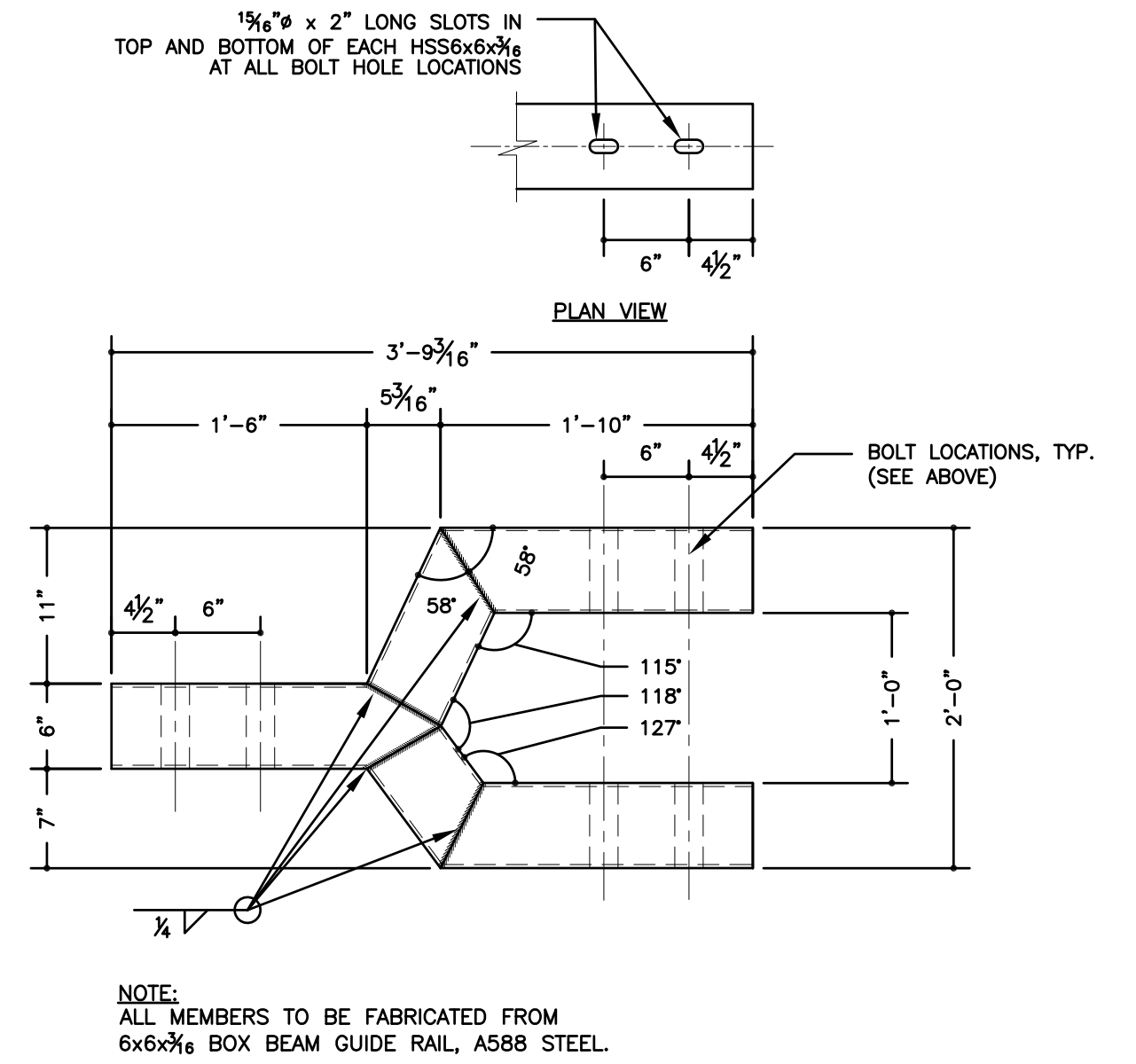
1 BOX BEAM BRIDGE RAIL DETAIL
SCALE: 1"=1'-0"



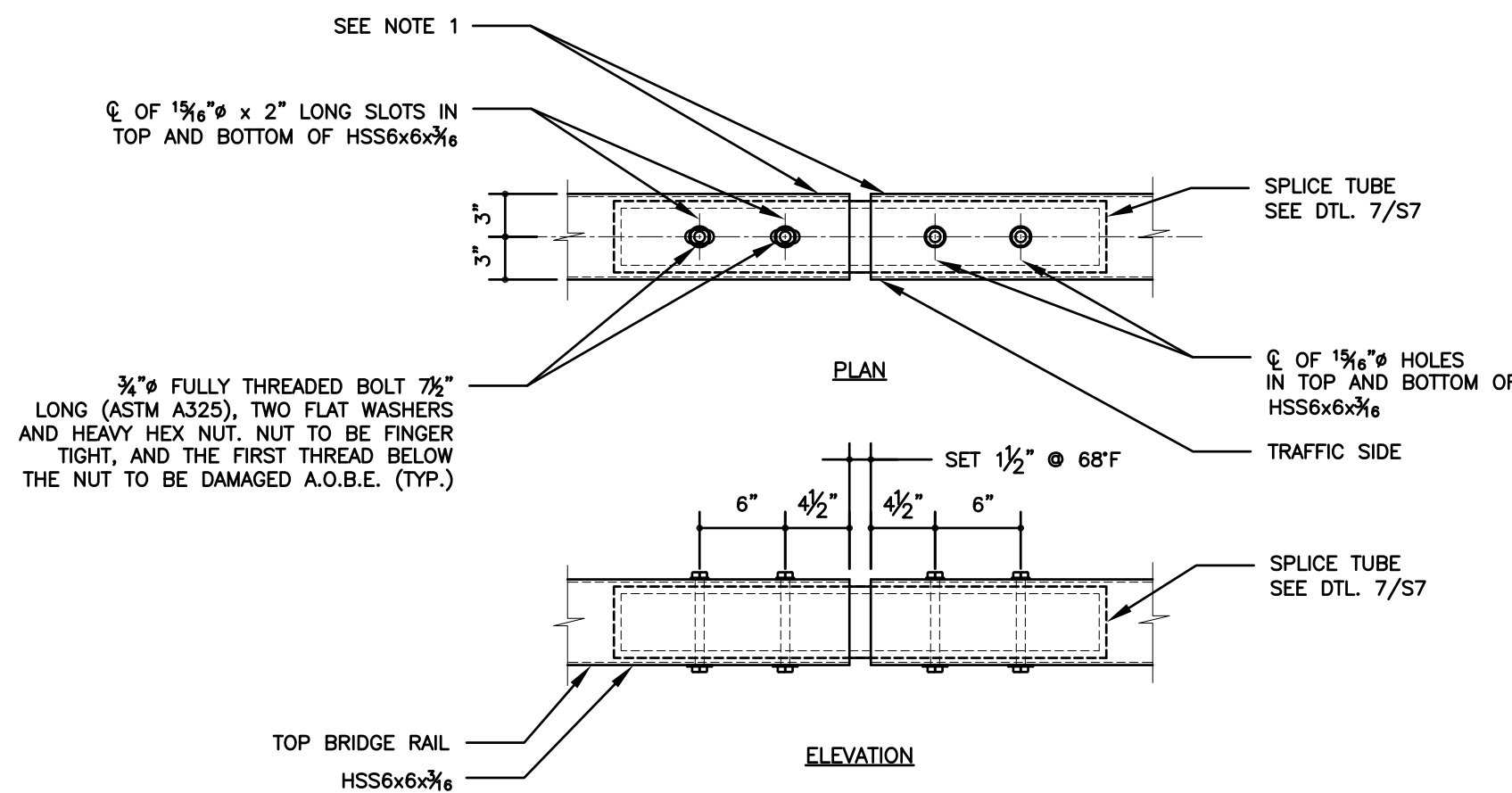
2 BRIDGE POST BRACKET DETAIL
SCALE: 1-1/2"=1'-0"



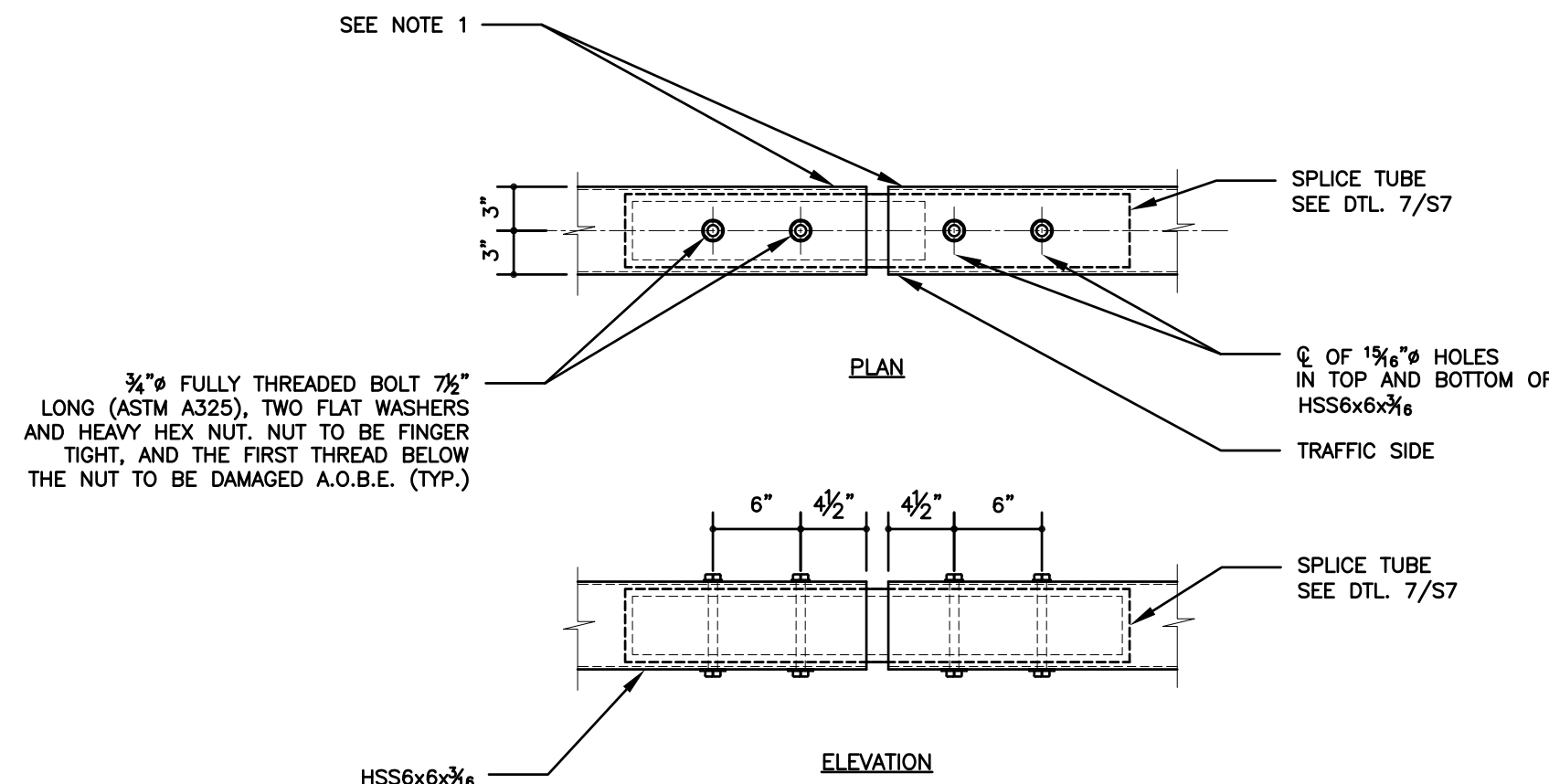
3 UNIVERSAL POST DETAIL
SCALE: 3/4"=1'-0"



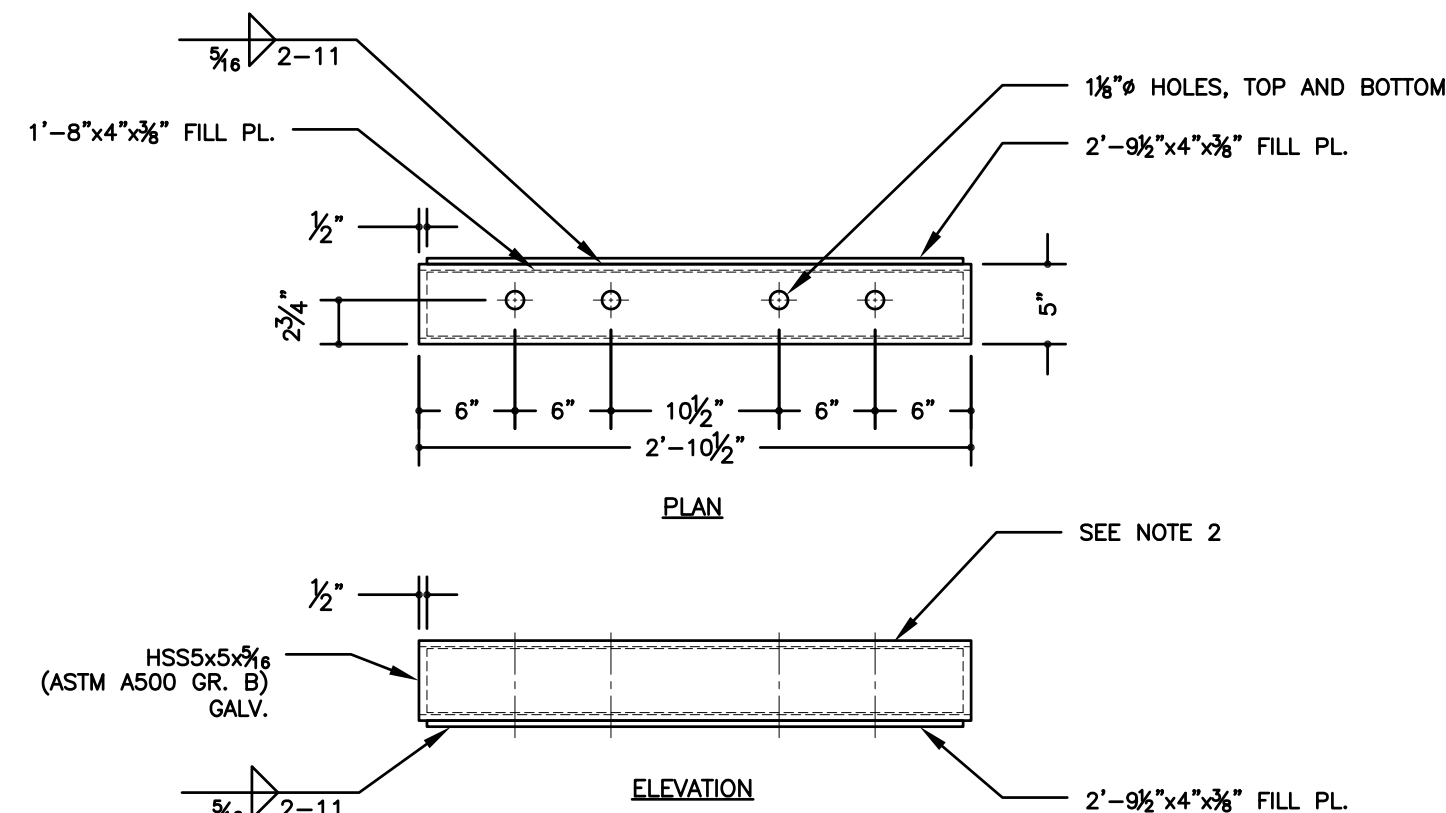
4 BRIDGE RAIL TRANSITION DETAIL
SCALE: 1"=1'-0"



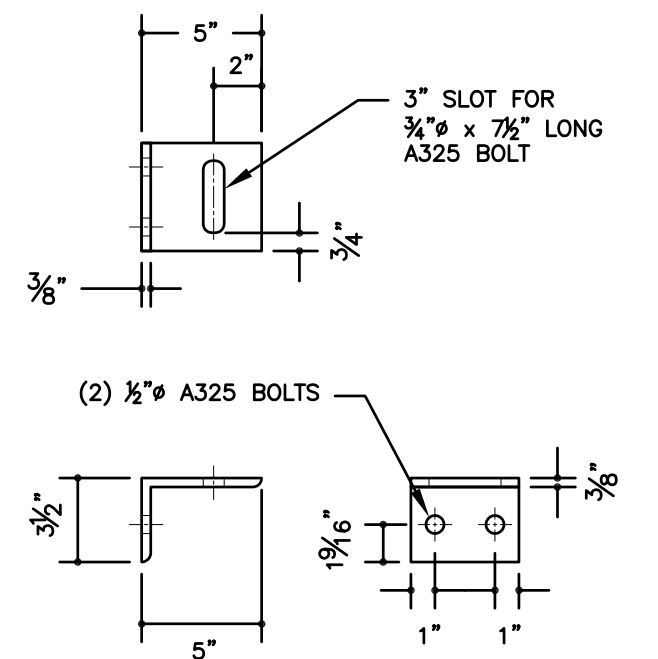
5 EXPANSION SPLICE DETAIL
SCALE: 3/4"=1'-0"



6 FIXED SPLICE DETAIL
SCALE: 3/4"=1'-0"



7 SPLICE TUBE DETAIL
SCALE: 3/4"=1'-0"



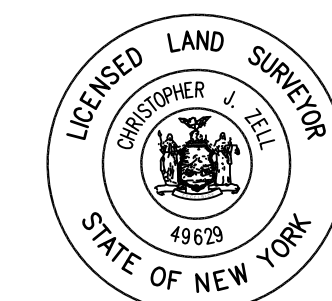
8 GALV. STL. ANGLE BRACKET DETAIL
SCALE: 1-1/2"=1'-0"

SPLICE DETAIL NOTES:

1. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE INSIDE WALLS OF THE SPLICE AREA.
2. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE OUTSIDE WALLS OF THE SPLICE TUBE AND THE OUTSIDE SURFACES OF THE FILL PLATES.
3. BRIDGE RAIL SHALL BE DOUBLE BOX BEAM BRIDGE RAIL FOR LOW VOLUME BRIDGES IN ACCORDANCE WITH NYSDOT STANDARD SHEETS BD-RL3E, RL4E AND RL5E.
4. GUIDE RAIL FROM THE BRIDGE TRANSITION RAIL TO THE END SECTION SHALL BE BOX BEAM GUIDE RAIL WITH A TYPE IIA END ASSEMBLY CONSISTANT WITH NYSDOT STANDARD SHEET NUMBER 606--04 SHEET 1 THRU 4.

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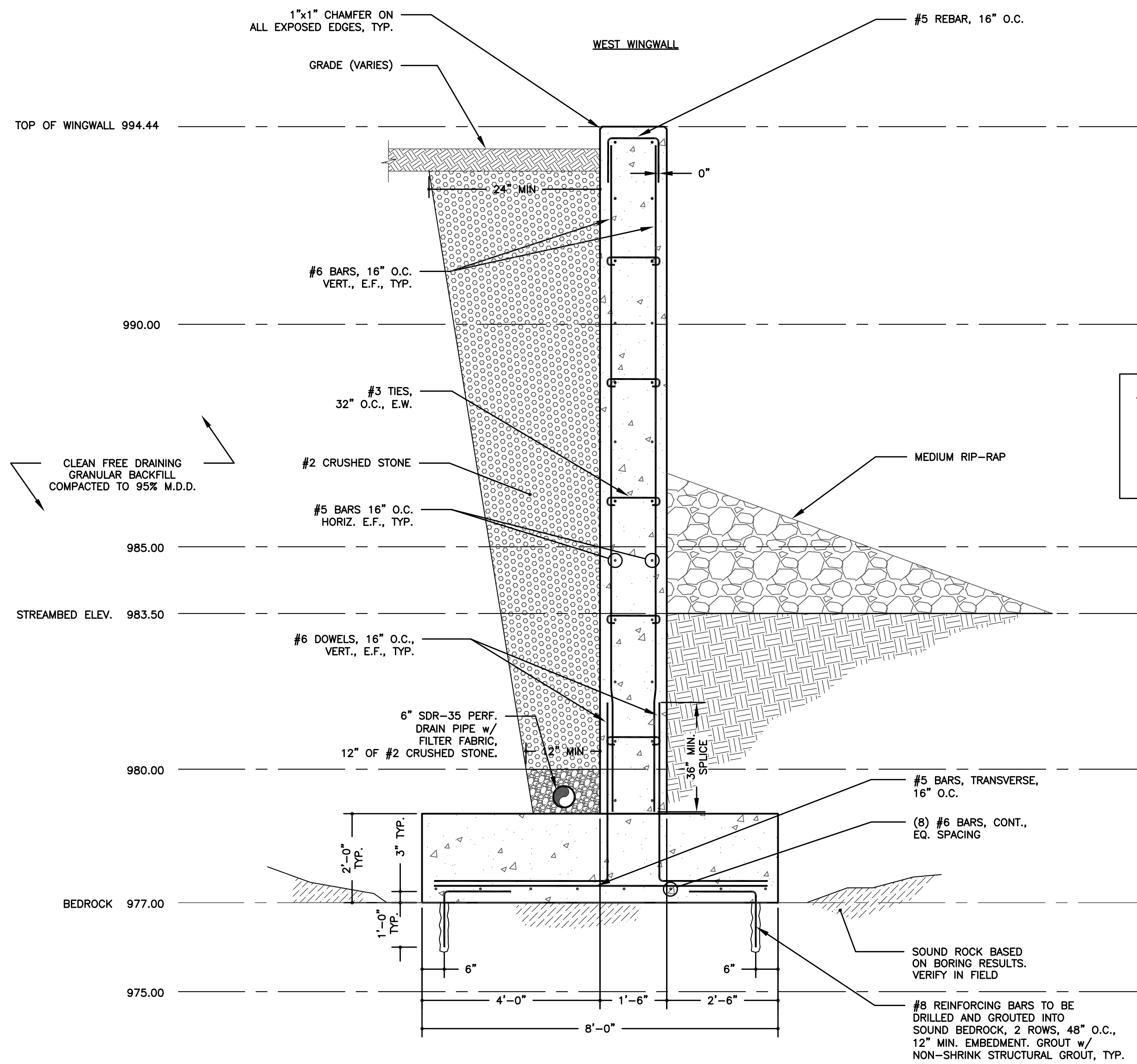
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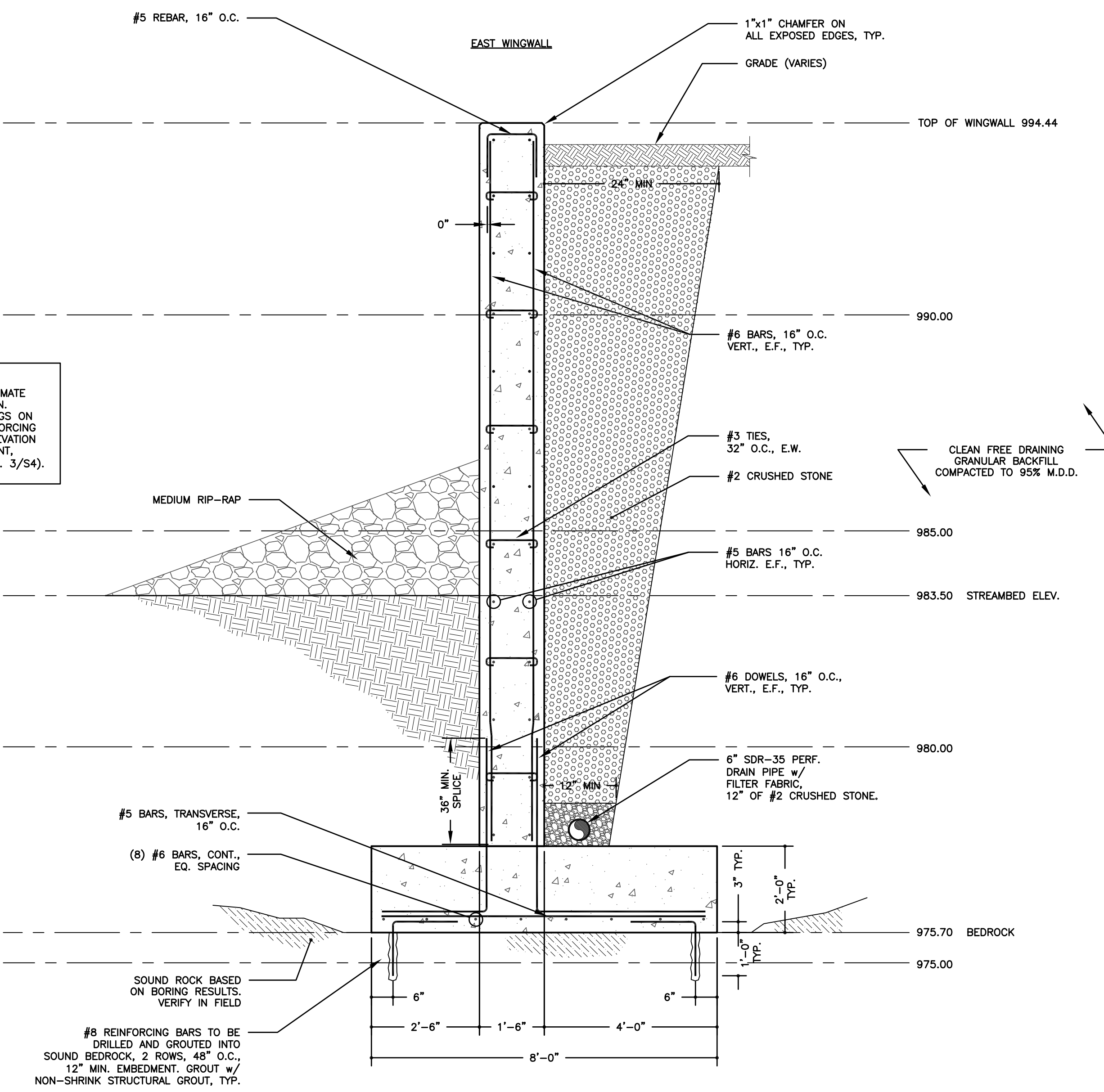
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GUIDE RAIL DETAILS CONTRACT TS - 166

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NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY	
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		SCALE AS SHOWN	
		DATE JULY 2016 DWG JH CHK JES	
		SHEET NO. S7	



NOTE:
DEPTH OF ROCK SHOWN IS APPROXIMATE BASED ON SOIL BORING INFORMATION. CONTRACTOR TO CONSTRUCT FOOTINGS ON SOUND ROCK. DRILL AND PIN REINFORCING INTO ROCK AS SHOWN. IF ROCK ELEVATION VARIES ACROSS LENGTH OF ABUTMENT, STEP FOOTING AS NEEDED (SEE DTL. 3/S4).

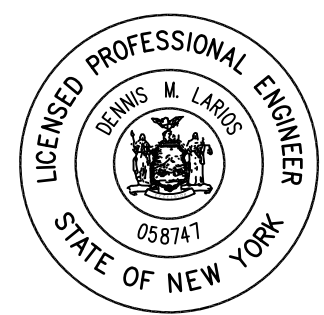
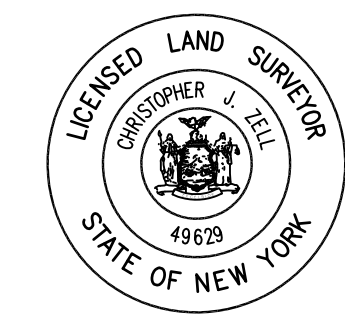


1 CONC. WINGWALL SECTION (WEST END)
S-8 SCALE: 1/2" = 1'-0"

2 CONC. WINGWALL SECTION (EAST END)
S-8 SCALE: 1/2" = 1'-0"

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SECTIONS & DETAILS
CONTRACT TS - 166

PANTHERKILL BRIDGE REPLACEMENT NY RISING COMMUNITY RECONSTRUCTION PROGRAM NEW YORK STATE GOVERNORS OFFICE OF STORM RECOVERY			
TOWN OF SHANDAKEN		ULSTER COUNTY NEW YORK	
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DWG	CHK	S8	
	JH		
	JES		