

BRIDGE LEGAL LOAD RATINGS (TONS) US 301 OVER NORFOLK SOUTHERN RAILROAD

RATING VEHICLE	RATING TYPE	CONTROLLING UNIT/SPAN/MEMBER	CONTROLLING POINT	LOAD EFFECT	LIMIT STATE	LOAD RATING FACTOR	LOAD RATING (TONS)
HL-93 TRUCK	INVENTORY	1S & 5N	105.000	LONG. REINF. MAX. EFFECTS MAX. MOMENT W/ CONCURRENT SHEAR	STRENGTH I	1.14	N/A
HL-93 TANDEM	INVENTORY	1S & 5N	105.000	LONG. REINF. MAX. EFFECTS MAX. MOMENT W/ CONCURRENT SHEAR	STRENGTH I	1.33	N/A
HL-93 TRUCK	OPERATING	1S & 5N	105.000	LONG. REINF. MAX. EFFECTS MAX. MOMENT W/ CONCURRENT SHEAR	STRENGTH I-0	1.47	N/A
HL-93 TANDEM	OPERATING	1S & 5N	105.000	LONG. REINF. MAX. EFFECTS MAX. MOMENT W/ CONCURRENT SHEAR	STRENGTH I-0	1.70	N/A
S220	LEGAL	1S & 5N	106.000	LONG. REINFORCEMENT MIN. EFFECTS MAX. SHEAR W/ CONCURRENT MOMENT	STRENGTH I	2.36	47.26
S335	LEGAL	1S & 5N	105.000	CONC. STRESS MAX. EFFECTS DL+PS+LL BOT. OF BEAM	SERVICE III	1.34	46.83
S437	LEGAL	1S & 5N	105.000	CONC. STRESS MAX. EFFECTS DL+PS+LL BOT. OF BEAM	SERVICE III	1.27	46.66
T330	LEGAL	1S & 5N	105.000	CONC. STRESS MAX. EFFECTS DL+PS+LL BOT. OF BEAM	SERVICE III	1.80	53.86
T435	LEGAL	1S & 5N	105.000	CONC. STRESS MAX. EFFECTS DL+PS+LL BOT. OF BEAM	SERVICE III	1.57	54.78
T540	LEGAL	1S & 5N	105.000	CONC. STRESS MAX. EFFECTS DL+PS+LL BOT. OF BEAM	SERVICE III	1.38	55.26

LEGEND

- - SETTLEMENT PLATFORMS
- ▲ - SETTLEMENT MONUMENTS

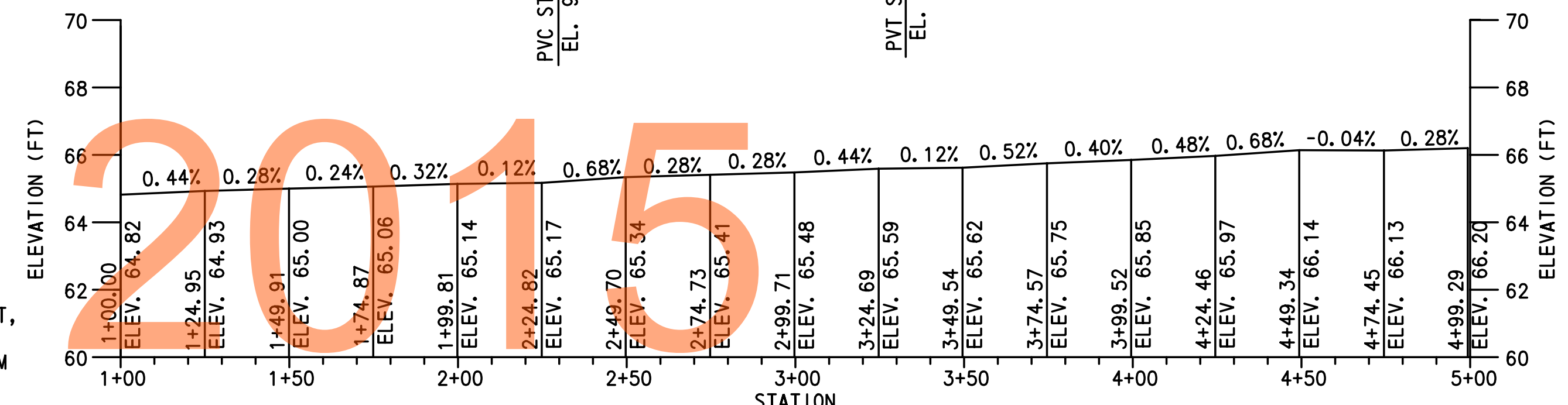
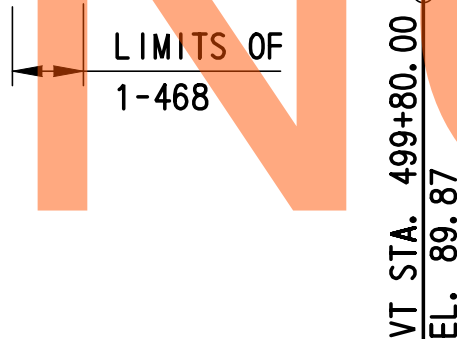
US 301 GEOMETRY

VERTICAL DATA

PVI STA. 495+50.00
 EL. 99.12
 VC = 860.00'
 MO = -3.24'
 SSD = 785.31'
 +0.86% -2.15%

HORIZONTAL DATA

TANGENT



NORFOLK SOUTHERN RAILROAD - PROFILE OF EXISTING TOP OF RAIL

NOT TO SCALE

CROSS REFERENCE NOTES:

1. FOR SETTLEMENT PLATFORM AND MONUMENT STATIONS AND OFFSETS, SEE DWG. 1-468 DT-2.

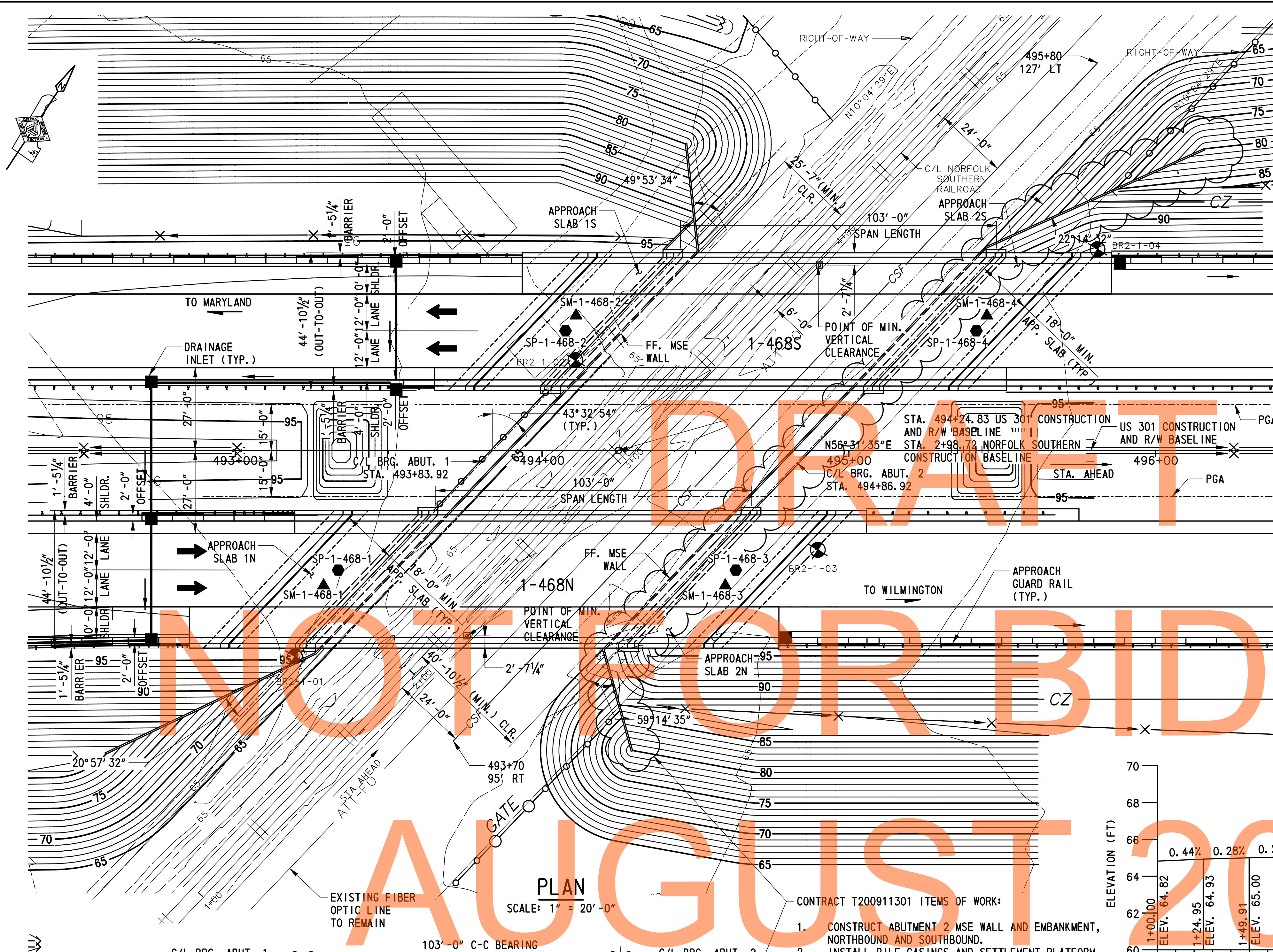
2. FOR SETTLEMENT PLATFORM DETAILS, SEE DWG. BR1-467 DT-01.

NOTES:

1. ABUTMENTS 1, ABUTMENTS 2 AND SUPERSTRUCTURES TO BE CONSTRUCTED UNDER CONTRACT T200911303.

2. THE ELEVATION OF EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN CHIEF ENGINEER BRIDGES AND STRUCTURES.

SETTLEMENT PLATFORM	STATION	OFFSET	SETTLEMENT MONUMENT	STATION	OFFSET
SP-1-468-1	493+33.57	39.00' RT	SM-1-468-1	493+28.81	44.00' RT
SP-1-468-2	494+07.64	39.00' LT	SM-1-468-2	494+11.09	44.00' LT
SP-1-468-3	494+63.17	39.00' RT	SM-1-468-3	494+59.73	44.00' RT
SP-1-468-4	495+37.24	39.00' LT	SM-1-468-4	495+42.24	44.00' LT

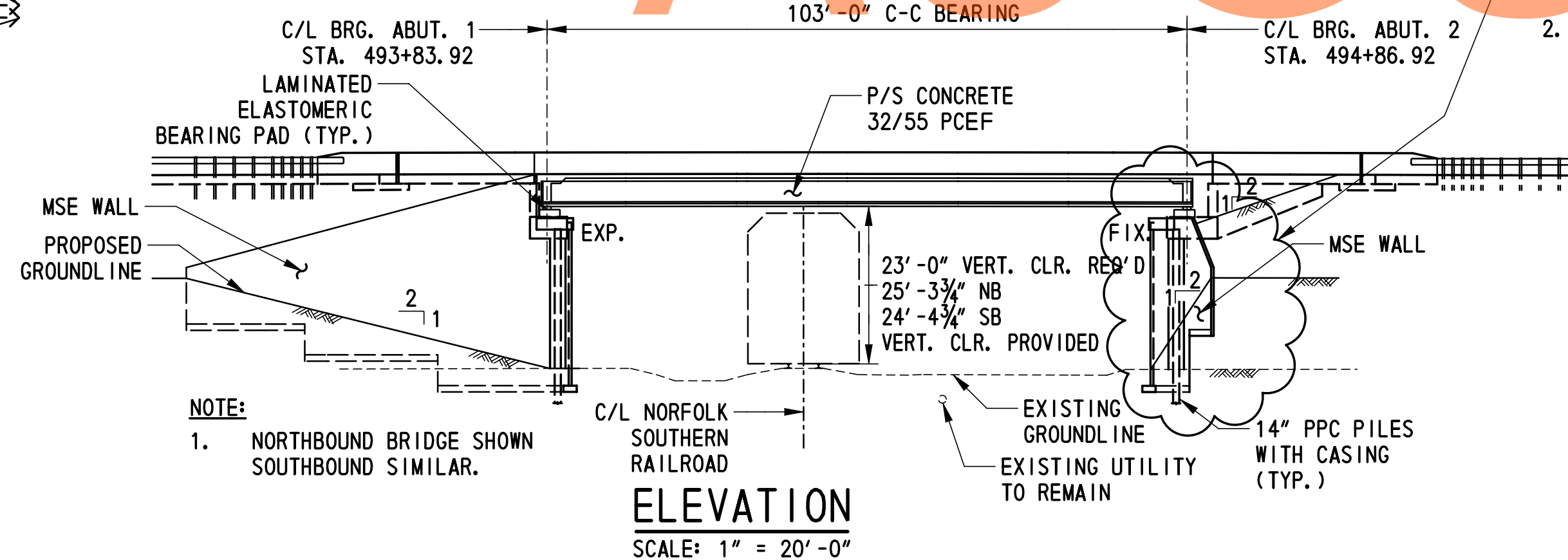


PLAN

SCALE: 1" = 20'-0"

CONTRACT T200911301 ITEMS OF WORK:

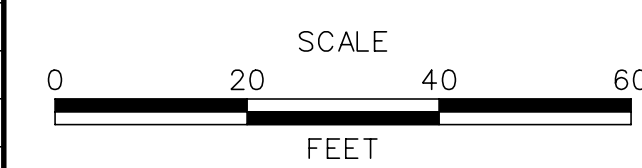
- CONSTRUCT ABUTMENT 2 MSE WALL AND EMBANKMENT, NORTHBOUND AND SOUTHBOUND.
- INSTALL PILE CASINGS AND SETTLEMENT PLATFORM AND MONUMENTS, NORTHBOUND AND SOUTHBOUND.



ELEVATION

SCALE: 1" = 20'-0"

100.00
 90.00
 80.00
 70.00
 DATUM 60.00



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ADDENDUMS / REVISIONS

CONTRACT	T200911301
COUNTY	NEW CASTLE
BRIDGE NO.	1-468N&S
DESIGNED BY:	ADH
CHECKED BY:	DHG

GENERAL NOTES

1. DESIGN SPECIFICATIONS:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION, 2007, INCLUDING 2008 AND 2009 INTERIM REVISIONS, AND AS SUPPLEMENTED BY DELAWARE DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, MAY 2005, INCLUDING LATEST REVISIONS.

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS, AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.

LIVE LOAD DISTRIBUTION TO BEAMS IS BASED UPON AASHTO DISTRIBUTION FACTORS.

2. LOADING:

UNIT WEIGHTS OF MATERIALS SHALL BE IN ACCORDANCE WITH THE DELAWARE DESIGN MANUAL.

FUTURE OVERLAY ALLOWANCE SHALL BE 25 LBS/SQ FT.

STEEL BRIDGE DECK FORMS WHICH STAY IN PLACE (INCLUDING CONCRETE IN FORM CORRUGATIONS) SHALL BE 15 LBS/SQ FT.

VEHICLE LIVE LOAD SHALL BE AASHTO HL-93 DESIGN VEHICLE, WHICH CONSISTS OF A DESIGN TRUCK OR TANDEM WITH DYNAMIC LOAD ALLOWANCE AND A LANE LOAD. RATINGS SHALL USE ALL DELAWARE LEGAL LOADS SPECIFIED IN THE BRIDGE DESIGN MANUAL.

BARRIER HAS BEEN DESIGNED FOR TEST LEVEL FOUR (TL-4).

FATIGUE DESIGN IS BASED ON THE FOLLOWING:
ADTT 3,045 (2030 ONE-DIRECTIONAL).

FOR THERMAL LOADS, CONSIDER THE MODERATE TEMPERATURE RANGE AS STIPULATED IN THE AASHTO LRFD DESIGN SPECIFICATIONS, THE NORMAL TEMPERATURE SHALL BE CONSIDERED TO BE 68F.

FOR SEISMIC LOADS, CONSIDER SEISMIC PERFORMANCE ZONE 1, WITH A SITE CLASS = D AND IMPORTANCE CATEGORY - ESSENTIAL.

SEISMIC FORCES WERE CONSIDERED FOR ACCELERATION COEFFICIENT OF 0.08.

3. STRUCTURAL EXCAVATIONS:

EXCAVATION REQUIRED TO ATTAIN THE GRADE FOR INSTALLATION OF MSE WALLS SHALL BE INCIDENTAL TO ITEM NO. 602772 - MECHANICALLY STABILIZED EARTH WALLS.

4. STRUCTURAL BACKFILL:

MSE WALL BACKFILL SHALL BE AS SPECIFIED ON THE PLANS.

5. TEMPORARY RAILROAD CLEARANCES:

A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE TOP OF HIGHEST RAIL SHALL BE MAINTAINED AT ALL TIMES.

A MINIMUM HORIZONTAL CLEARANCE OF 15'-0" FROM CENTERLINE OF TRACK SHALL BE MAINTAINED AT ALL TIMES.

CONTRACTOR TO COORDINATE ALL WORK WITH NORFOLK SOUTHERN RAILROAD IN ACCORDANCE WITH NORFOLK SOUTHERN SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS.

6. UTILITIES:

COORDINATE ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH SECTION 107.04 OF THE STANDARD SPECIFICATIONS.

VERIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO STARTING WORK. CONDUCT OPERATIONS IN A MANNER WHICH ENSURES THAT THE UTILITIES WILL NOT BE DISTURBED OR ENDANGERED AND ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO UTILITIES DURING CONSTRUCTION. THE DEPARTMENT DOES NOT ASSUME RESPONSIBILITY FOR REIMBURSEMENT, PARTICIPATION IN DESIGN AND/OR REVISION, OR LIABILITY FOR ACCURACY OF TYPE, SIZE AND LOCATION OF ANY UTILITY.

INDEX OF DRAWINGS		
SHEET NO.	DRAWING NO.	TITLE
125	1-468 PE-1	BRIDGE PLAN AND ELEVATION
126	1-468 GN-1	GENERAL NOTES AND INDEX OF DRAWINGS
127	1-468 GG-1	GEOMETRIC LAYOUT
128	1-468 TS-1	TYPICAL SECTION AND QUANTITIES
129	1-468 PL-1	ABUTMENT 2 - PILE PLAN
130	1-468 WW-2	MEDIAN AND WINGWALL ELEVATIONS - ABUTMENT 2
131	1-468 WW-3	MSE WALL DETAILS
132	1-468 BO-1	TEST BORINGS
133	1-468 DT-1	CONSTRUCTION SEQUENCE ABUTMENT 2

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AUGUST 2015

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DELAWARE DEPARTMENT OF TRANSPORTATION

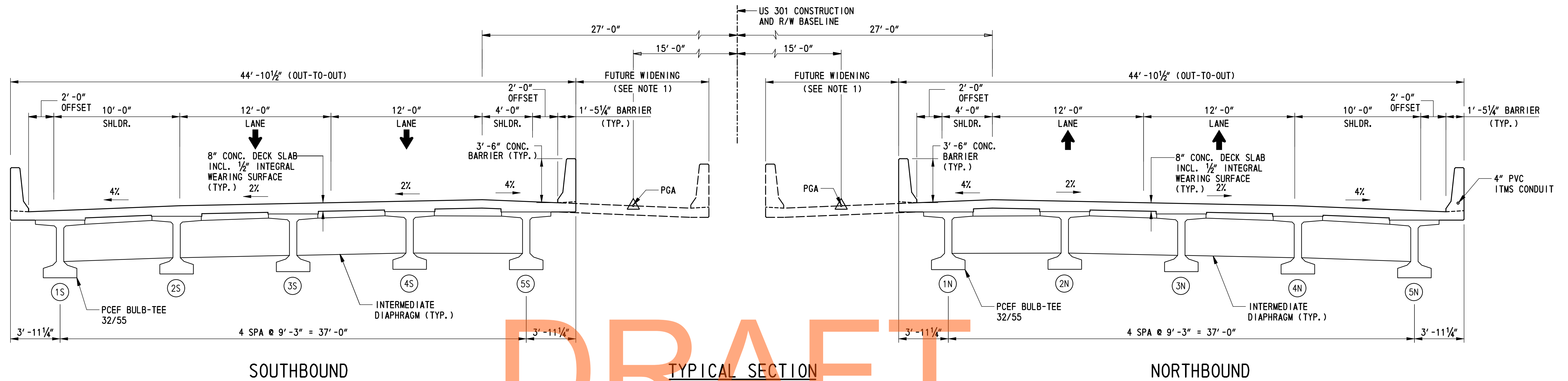
ADDENDUMS / REVISIONS

US 301 NORFOLK SOUTHERN RR TO SR896

CONTRACT	BRIDGE NO.	1-468N&S
T200911301	DESIGNED BY:	ADH
COUNTY	CHECKED BY:	DHG
NEW CASTLE		

US 301 MAINLINE OVER NORFOLK SOUTHERN RAILROAD GENERAL NOTES AND INDEX OF DRAWINGS

1-468 GN-1
SHEET NO.
126
TOTAL SHTS.
240



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AUGUST 2015

ESTIMATED BRIDGE QUANTITIES					
ITEM NO.	DESCRIPTION	UNIT	NORTHBOUND QUANTITIES	SOUTHBOUND QUANTITIES	TOTAL
202505	SETTLEMENT PLATFORM	EA	1	1	2
202518	SETTLEMENT MONUMENT	EA	1	1	2
602772	MECHANICALLY STABILIZED EARTH WALL	LS	-	-	-

NOTE:
 1. CROSS SLOPE OF FUTURE LANE SLOPES AT 2% DOWN TO PGA. THE CURRENT FASCIA BEAM HAUNCH WOULD NEED TO BE INCREASED TO ACCOUNT FOR CHANGE IN ELEVATION OF DECK SLAB.

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 1 0 1 2 3 4 5 FEET	US 301 NORFOLK SOUTHERN RR TO SR896	CONTRACT T200911301	BRIDGE NO. 1-468N&S	US 301 MAINLINE OVER NORFOLK SOUTHERN RAILROAD TYPICAL SECTION AND QUANTITIES	SHEET NO. 128
					COUNTY NEW CASTLE		DESIGNED BY: ADH

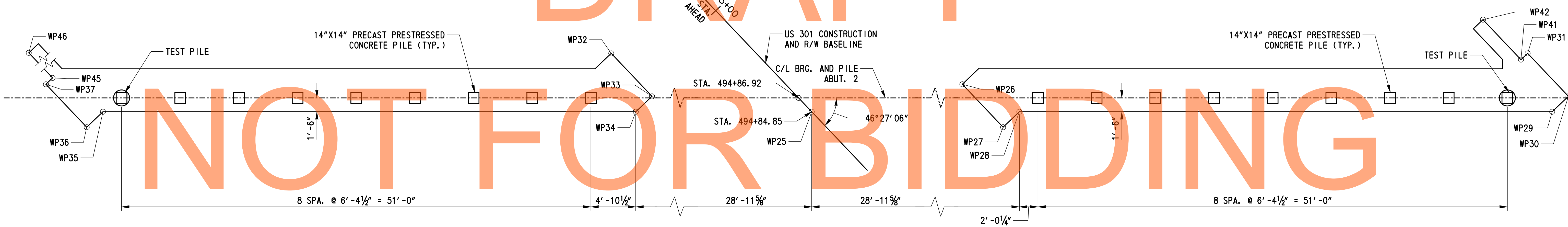
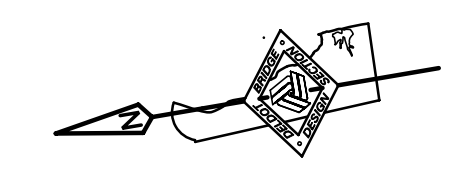
1-468 TS-1

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AUGUST 2015

ABUTMENT 2 PILE PLAN
SCALE: 3/16" = 1' - 0"



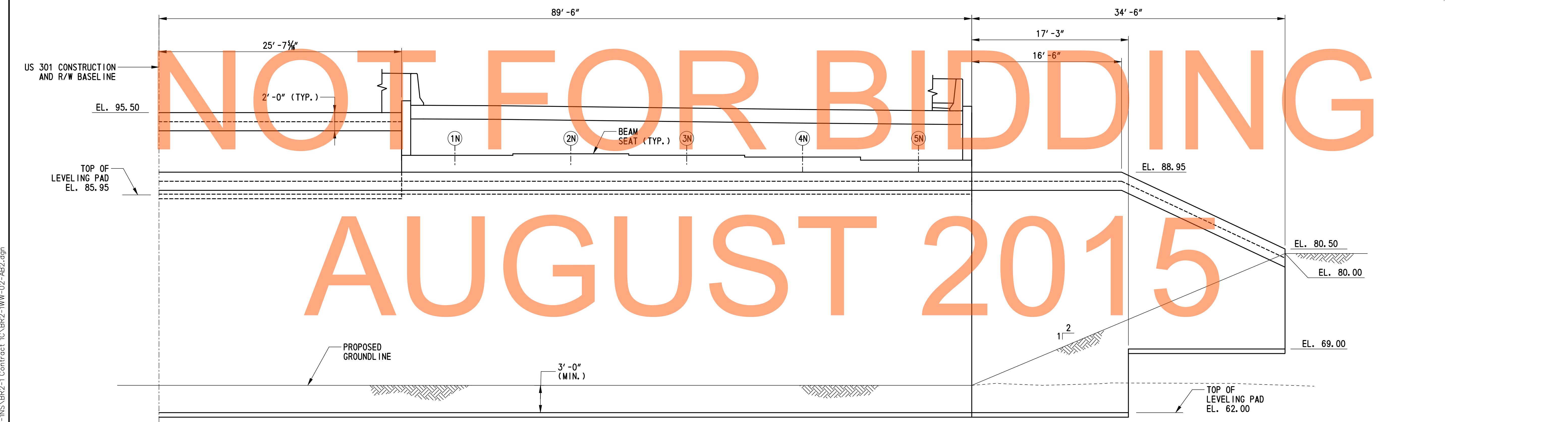
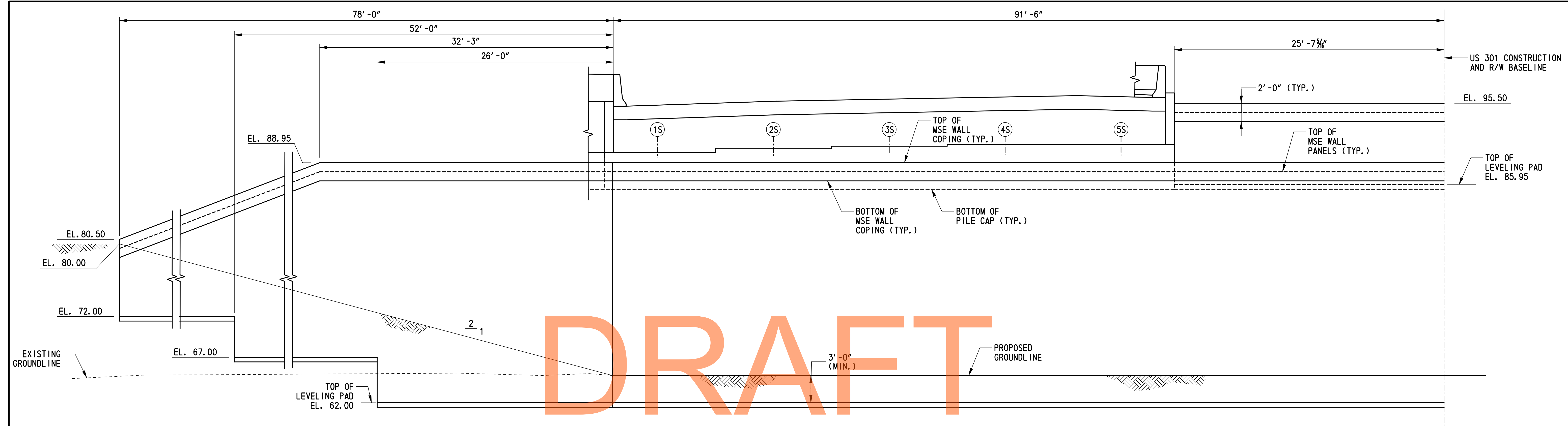
- NOTES:**
1. PILE PLAN IS PROVIDED FOR LOCATING PILE CASINGS.
 2. PILE CASINGS SHALL BE FURNISHED IN ACCORDANCE WITH ITEM 602772 AND ARE INCIDENTAL TO THE MSE WALL CONSTRUCTION.

- CROSS REFERENCE NOTE:**
1. FOR PILE DETAILS AND NOTES, SEE DWG. 1-468 PL-2.

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>US 301 NORFOLK SOUTHERN RR TO SR896</p>	CONTRACT	BRIDGE NO.	<p>1-468N&S</p> <p>US 301 MAINLINE OVER NORFOLK SOUTHERN RAILROAD ABUTMENT 2 - PILE PLAN</p>	SHEET NO.
				T200911301	DESIGNED BY: ADH		129
				COUNTY	CHECKED BY: DHG		TOTAL SHTS.
				NEW CASTLE			240

1-468 PL-1



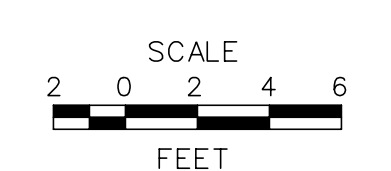
MEDIAN AND WINGWALL ELEVATIONS - ABUTMENT 2
SCALE: 3/16" = 1'-0"

- CROSS REFERENCE NOTES:**
- FOR GENERAL NOTES, SEE DWG. 1-468 GN-1.
 - FOR GEOMETRIC LAYOUT, SEE DWG. 1-468 GG-1.
 - FOR MSE WALL SECTIONS AND DETAILS, SEE DWG. 1-468 WW-3.

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ADDENDUMS / REVISIONS	

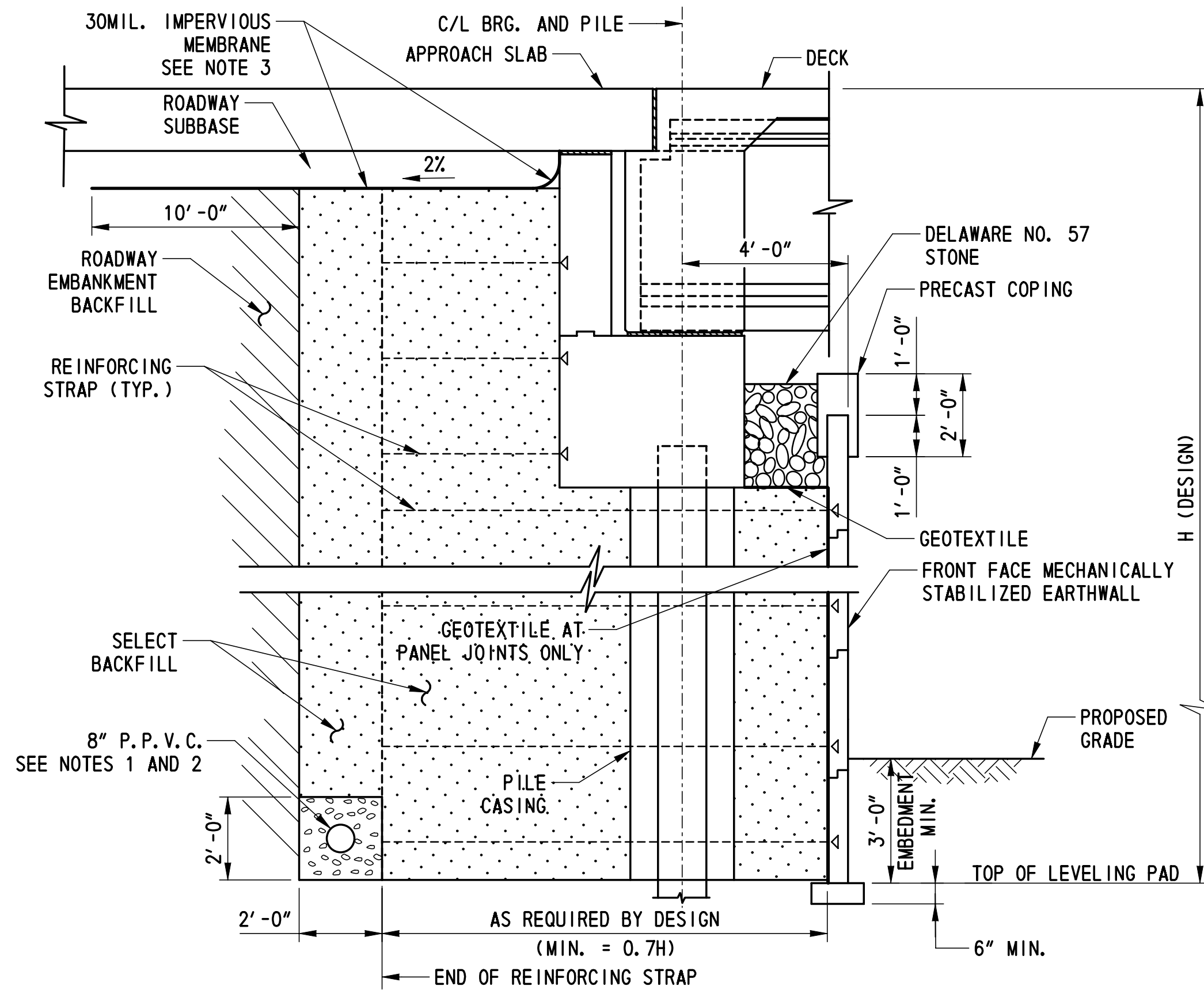


**US 301
NORFOLK SOUTHERN RR
TO SR896**

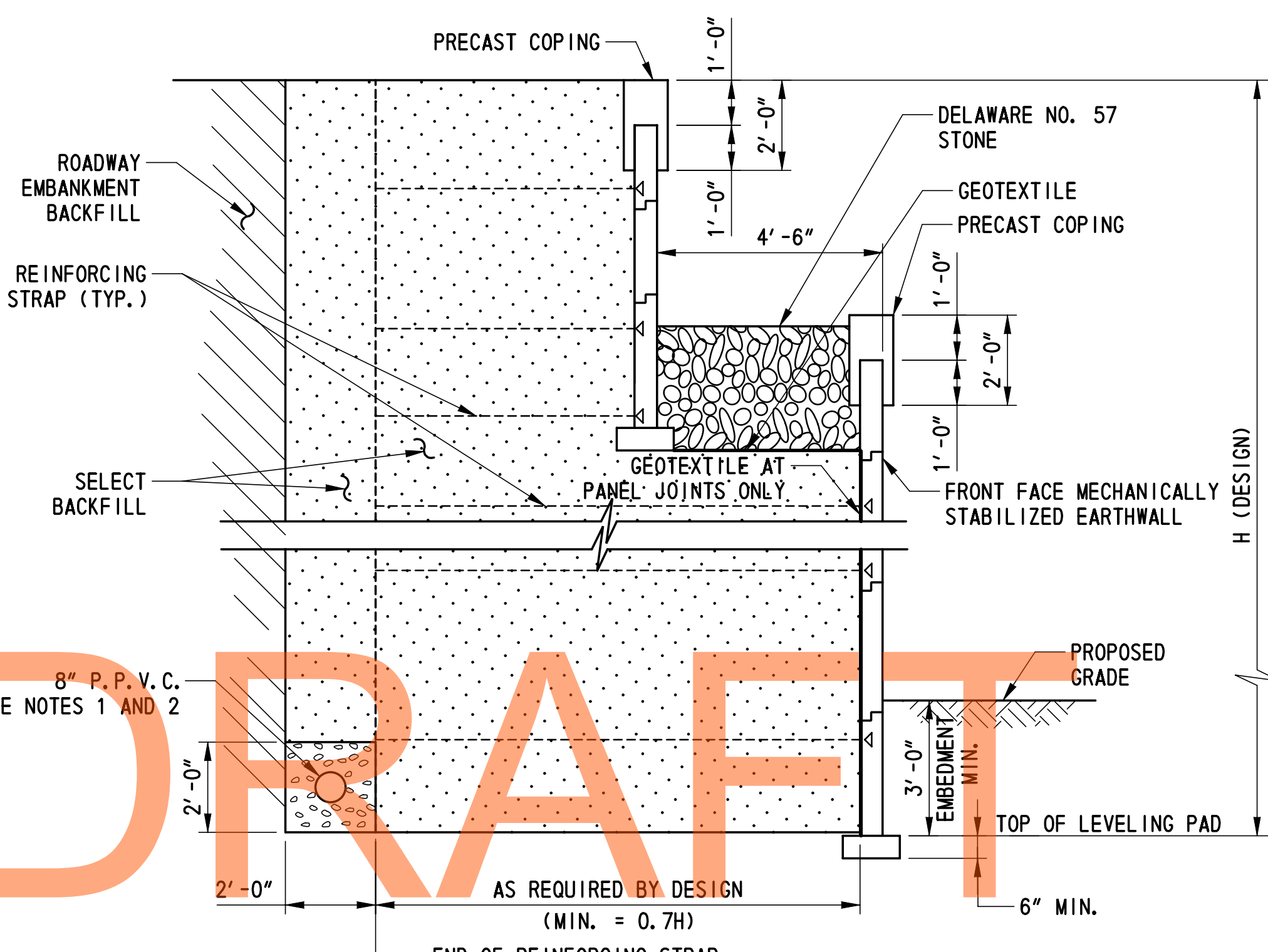
CONTRACT	BRIDGE NO.	1-468N&S
T200911301	DESIGNED BY:	ADH
COUNTY	CHECKED BY:	DHG
NEW CASTLE		

**US 301 MAINLINE OVER
NORFOLK SOUTHERN
RAILROAD
MEDIAN AND WINGWALL
ELEVATIONS - ABUTMENT 2**

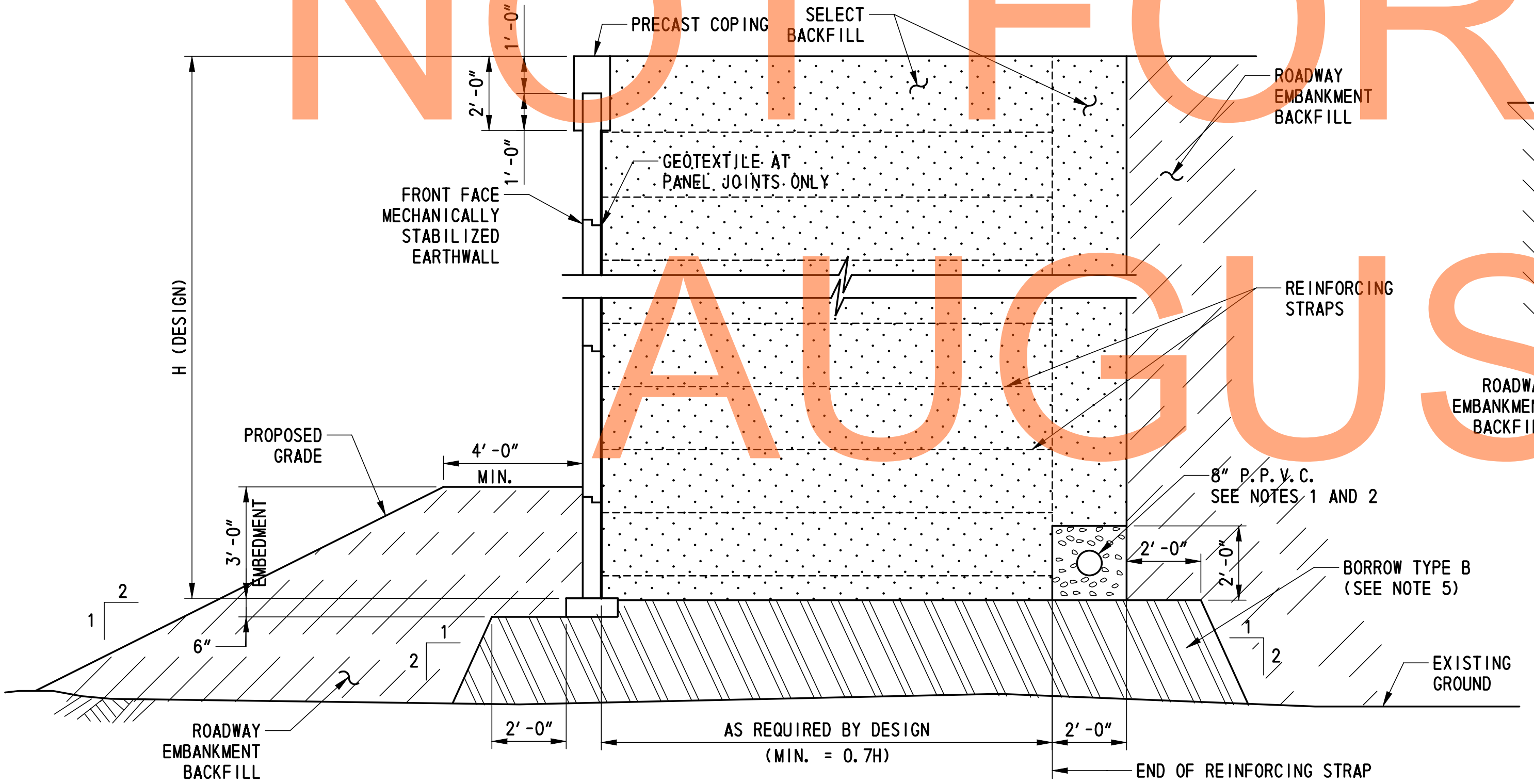
1-468 WW-2
SHEET NO.
130
TOTAL SHTS.
240



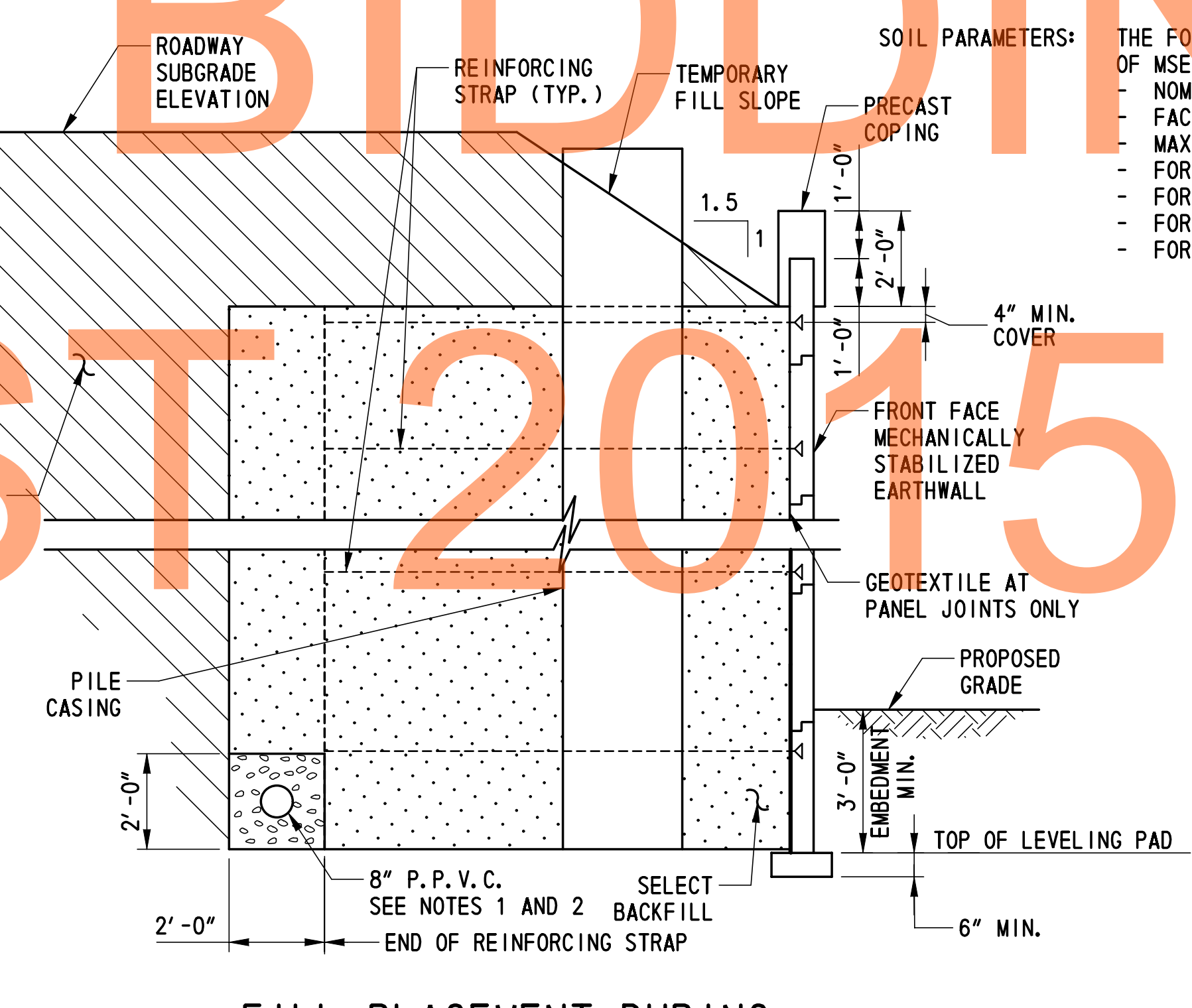
TYPICAL MSE WALL SECTION AT ABUTMENT
SCALE: 3/8" = 1'-0"



TYPICAL MSE WALL SECTION AT MEDIAN
SCALE: 3/8" = 1'-0"



TYPICAL MSE WALL SECTION WINGWALL ON FILL
SCALE: 3/8" = 1'-0"



FILL PLACEMENT DURING QUARANTINE PERIOD
SCALE: 3/8" = 1'-0"

MSE WALL NOTES:

- SPECIFICATIONS:**
- PROPRIETARY MSE WALLS SHALL BE DESIGNED IN ACCORDANCE WITH THE FOLLOWING:
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 4TH EDITION WITH ALL CURRENT REVISIONS.
 - FEDERAL HIGHWAY ADMINISTRATION PUBLICATION NOS. FHWA-NHI-10-024 AND FHWA-NHI-10-025, "DESIGN AND CONSTRUCTION OF MECHANICALLY STABILIZED EARTH WALLS AND REINFORCED SOIL SLOPES", VOLUME I AND VOLUME II.
 - CONCRETE DESIGN SHALL BE PERFORMED USING THE LOAD AND RESISTANCE FACTOR DESIGN METHOD.
 - CONCRETE:** LEVELING PAD CONCRETE SHALL BE 3,000 PSI. MIX REQUIREMENTS SHALL CONFORM TO SECTION 812 OF THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
 - CHAMFERS:** ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" x 3/4" MILLED CHAMFER STRIPS, UNLESS OTHERWISE NOTED, EXCEPT ON UNEXPOSED FOOTINGS OR WHERE INDICATED BY THE FOLLOWING NOTATION ON THE PLANS: "DO NOT CHAMFER".
 - REINFORCING STEEL:** REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A 615), GRADE 60. ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER THE LRFD BRIDGE DESIGN SPECIFICATIONS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED.
 - FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS (+) ZERO INCHES, MINUS (-) NORMAL ACI BENDING TOLERANCE.
 - LEVELING PAD:** THE PROPRIETARY WALL MANUFACTURER MAY RELOCATE THE LEVELING PAD STEPS AT THEIR DISCRETION PROVIDED THAT THE MINIMUM EMBEDMENT IS MAINTAINED. ANY CHANGE TO THE STEP LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
 - ROADWAY LIMITS:** THE PROPRIETARY WALL MANUFACTURER SHALL ASSURE THAT PROPOSED PROPRIETARY WALL COMPONENTS ARE POSITIONED SUCH THAT THE DESIGNATED ROADWAY LIMITS ARE NOT ENCRUCHEDED UPON.
 - COORDINATION:** CONTRACTOR AND PROPRIETARY WALL MANUFACTURER SHALL COORDINATE LOCATIONS OF INLETS AND PIPES WITH LOCATIONS OF PROPRIETARY WALL TIE BACK SYSTEM.
 - SERVICE LIFE:** ALL RETAINING WALL COMPONENTS SHALL BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 100 YEARS.
 - WALL SYSTEM:** RETAINING WALL TYPE SHALL BE MECHANICALLY STABILIZED EARTH (MSE) WALLS. NO OTHER WALL TYPE MAY BE SUBSTITUTED.
 - MSE WALL BACKFILL:** MSE WALL BACKFILL SHALL BE SELECT BACKFILL IN ACCORDANCE WITH SPECIAL PROVISION 602772 WITH MINIMUM ANGLE OF INTERNAL FRICTION OF 34 DEGREES AND A MOIST UNIT WEIGHT OF 125 LB/FT³.

- REINFORCING STRAPS:** SET REINFORCING STRAPS TO CLEAR PILE CASING, 2" MIN. CLEARANCE. MAXIMUM IN-FIELD SKEW OF 15 DEGREES. IF GREATER SKEW ANGLE IS REQUIRED, CONTACT MSE WALL FIELD REPRESENTATIVE PRIOR TO INSTALLATION.
- SOIL PARAMETERS:** THE FOLLOWING ARE RECOMMENDED SOIL PARAMETERS TO BE USED FOR THE DESIGN OF MSE ABUTMENT AND WINGWALLS:
- NOMINAL BEARING RESISTANCE = 16.6 KIP/FT
 - FACTORED BEARING RESISTANCE = 10.8 KIP/FT
 - MAXIMUM ANTICIPATED SETTLEMENT = 4.5 IN
 - FOR RETAINED SOIL, MOIST UNIT WEIGHT = 120 LB/FT³
 - FOR RETAINED SOIL, ANGLE OF INTERNAL FRICTION = 30 DEGREES
 - FOR FOUNDATION SOIL, MOIST UNIT WEIGHT = 120 LB/FT³
 - FOR FOUNDATION SOIL, ANGLE OF INTERNAL FRICTION = 30 DEGREES

NOTES:

- DRAIN PERFORATED POLYVINYL CHLORIDE PIPE (P.P.V.C.) TO DAYLIGHT.
- SURROUND P.P.V.C. WITH A CONTINUOUS 2'-0"x2'-0" OF DELAWARE NO. 57 STONE ENCLOSED IN GEOTEXTILE.
- SLOPE MEMBRANE A MINIMUM OF 2% AWAY FROM BACKWALL.
- CONTRACTOR TO PROVIDE PROTECTION TO THE PILE CASING DURING QUARANTINE PERIOD TO PREVENT MATERIAL FROM ENTERING CASING.
- BORROW TYPE B IS INCIDENTAL TO ITEM 602772 AND SHALL MEET THE REQUIREMENTS OF SECTION 209 OF THE STANDARD SPECIFICATIONS.

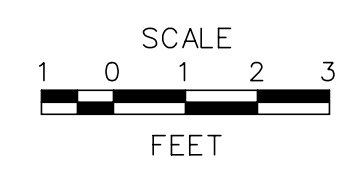
CROSS REFERENCE NOTES:

- FOR GENERAL NOTES, SEE SHEET 1-468 GN-1.
- FOR MEDIAN & WINGWALL ELEVATION, SEE SHEET 1-468 WW-2.
- FOR GEOMETRIC LAYOUT, SEE SHEET 1-468 GG-1.

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ADDENDUMS / REVISIONS	

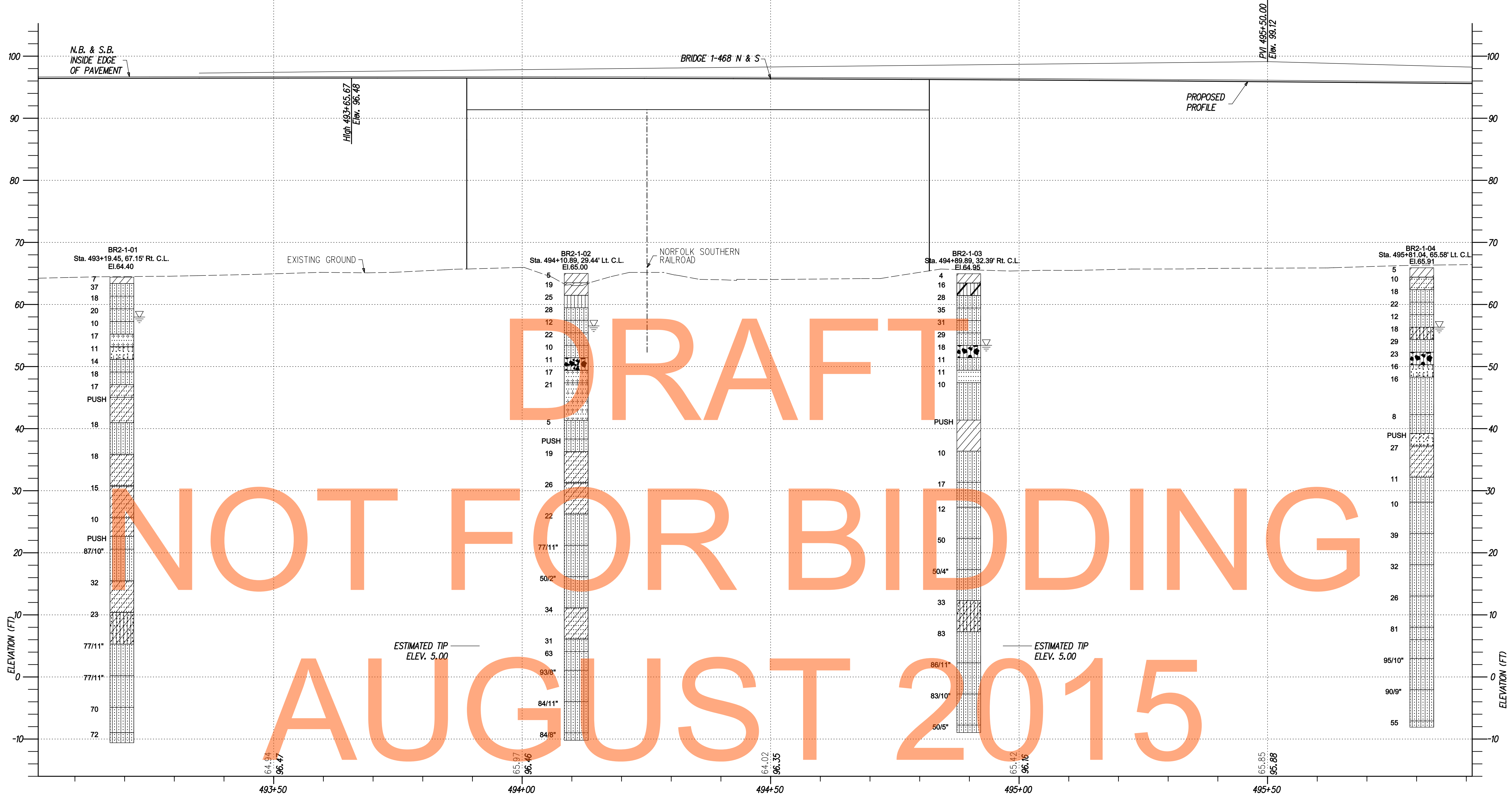


US 301 NORFOLK SOUTHERN RR TO SR896

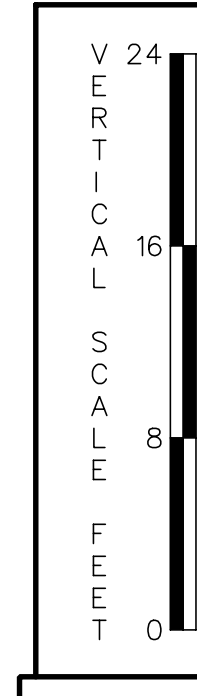
CONTRACT	BRIDGE NO.	1-468N&S
T200911301	DESIGNED BY:	ADH
COUNTY	CHECKED BY:	DHG
NEW CASTLE		

US 301 MAINLINE OVER NORFOLK SOUTHERN RAILROAD MSE WALL DETAILS

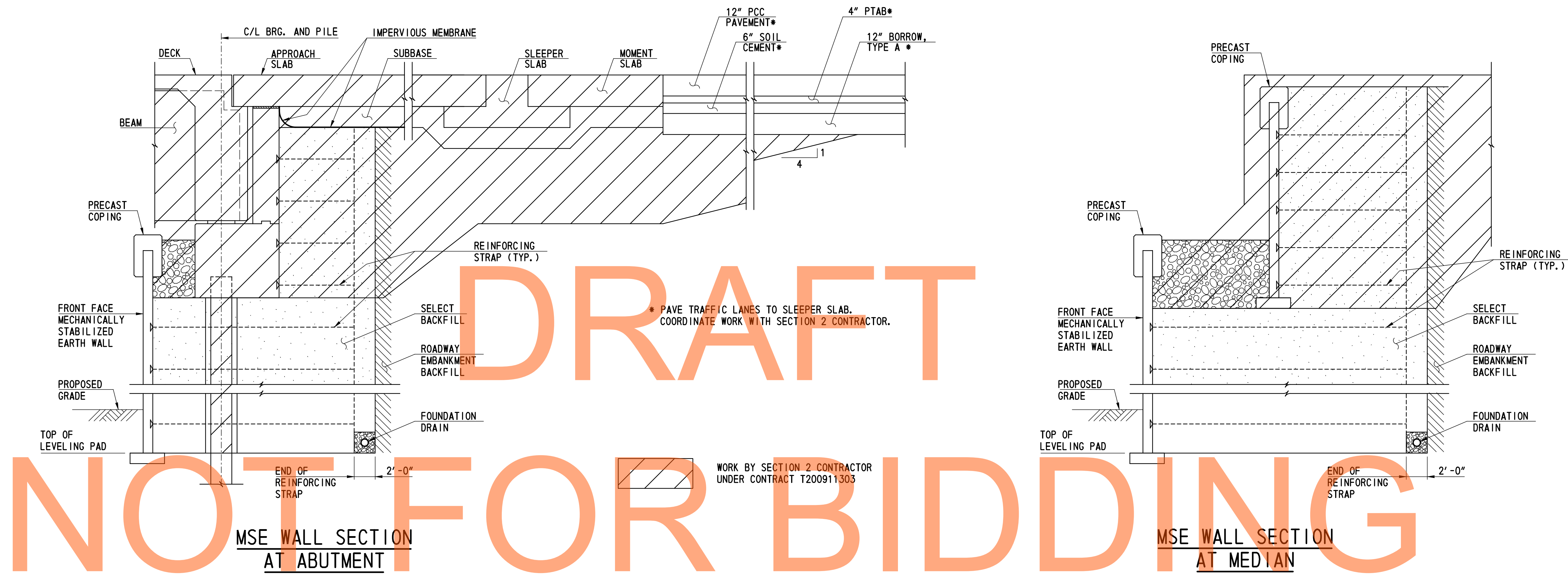
1-468 WW-3
SHEET NO.
131
TOTAL SHTS.
240



KEY TO SYMBOLS	
SYMBOL DESCRIPTION	SYMBOL DESCRIPTION
STRATA SYMBOLS	
LOW PLASTICITY CLAY	WELL GRADED GRAVEL WITH SILT
SILTY SAND	SILTY LOW PLASTICITY CLAY
WELL GRADED SAND WITH SILT	SILTY GRAVEL
POORLY GRADED SAND WITH SILT	CLAYEY SAND
WELL GRADED SAND	POORLY GRADED CLAYEY SILTY SAND
POORLY GRADED SAND WITH CLAY	MISC. SYMBOLS
WATER TABLE DURING DRILLING	
SILTY SAND	SILTY



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AUGUST 2015

**ABUTMENT 2
BRIDGE 1 - 468 N & S**

SEQUENCE OF CONSTRUCTION AT ABUTMENT 2 - CONTRACT T200911301

1. CONSTRUCT MSE WALLS AT ABUTMENTS AND AT MEDIAN, AND CONSTRUCT EMBANKMENT, TO THE APPROXIMATE LIMITS SHOWN.
2. PILE CASINGS SHALL BE INSTALLED AT THE PROPOSED PILE LOCATIONS DURING THE ABUTMENT MSE WALL CONSTRUCTION.

NOTES:

1. FOR BRIDGE 1-468 N & S CONSTRUCTION DETAILS, SEE SHEETS 123 TO 132.
2. ABUTMENT 1 AND ABUTMENT 2 TO BE BUILT UNDER CONTRACT T200911303.

LEGEND

- BRG. = BEARING
- N = NORTHBOUND
- S = SOUTHBOUND
- TYP. = TYPICAL

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ADDENDUMS / REVISIONS

**US 301
NORFOLK SOUTHERN RR
TO SR896**

CONTRACT	BRIDGE NO.	1-468N&S
T200911301	DESIGNED BY:	ADH
COUNTY	CHECKED BY:	DHG
NEW CASTLE		

**US 301 MAINLINE OVER
NORFOLK SOUTHERN
RAILROAD
CONSTRUCTION SEQUENCE
ABUTMENT 2**

1-468 DT-1
SHEET NO.
133
TOTAL SHTS.
240