June 10, 2019

ADDENDUM NO. 2

To Prospective Bidders and Others on:

TOWN OF BRIDGEWATER
ELM STREET RECONSTRUCTION PROJECT

CONTRACT DRAWINGS

All prospective Bidders are hereby notified that several plan sheets 39, 40 and 41 in the Contract Drawings have been revised. Refer to the attached plan sheets.

Please sign Addendum No. 2 below to acknowledge receipt and email back to the Town of Bridgewater at Procurement@bridgewaterma.org and Timothy B. McIntosh, at VHB, Inc. at tmcintosh@vhb.com.

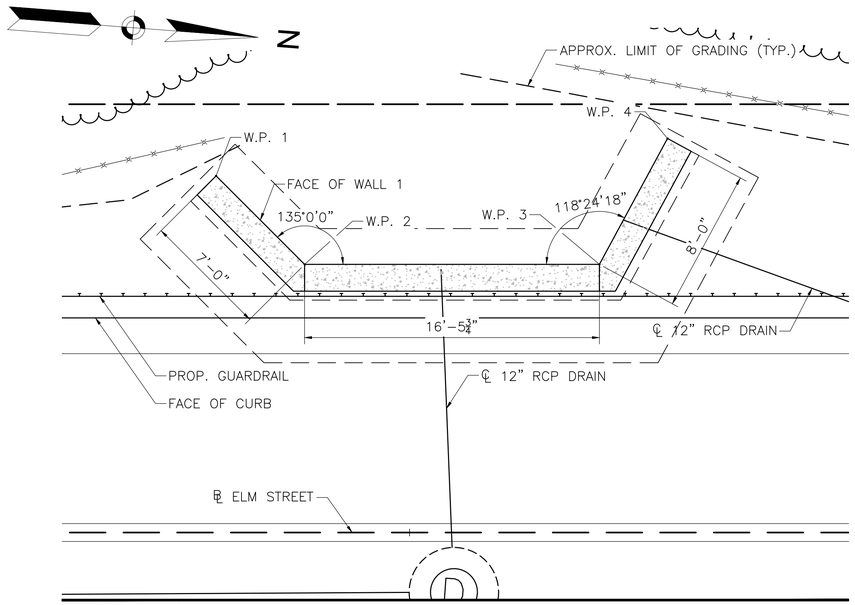
Name (Printed): _____

Company (Printed): _____

Signature _____ Date: _____

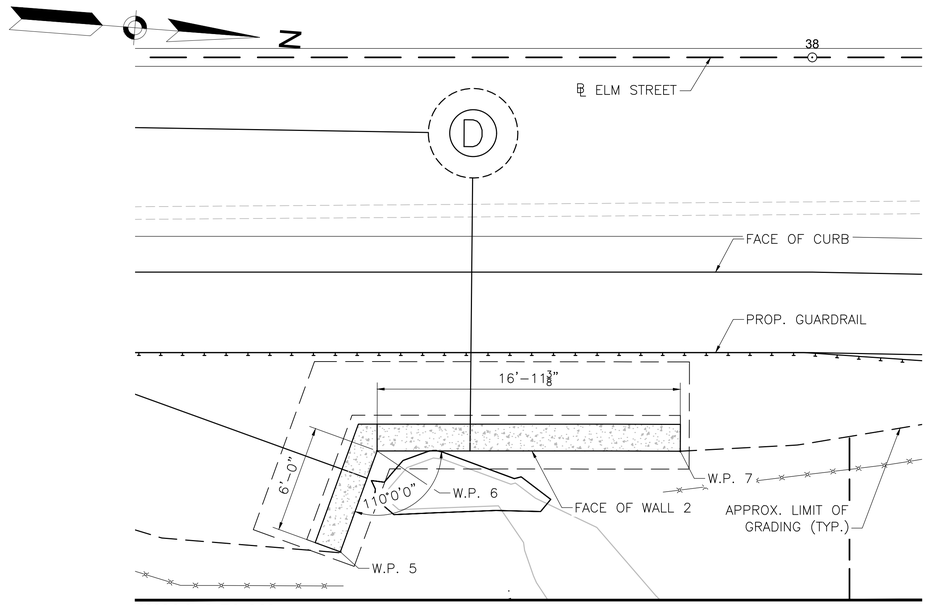
BRIDGEWATER
ELM STREET
RETAINING WALL DETAILS
SHEET 39 OF 65

WALL 1 & 2 PLAN & ELEVATION



WALL 1 PLAN

SCALE: $\frac{1}{8}$" = 1'-0"

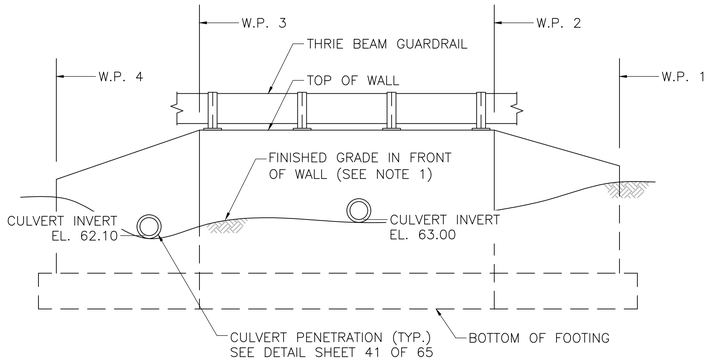


WALL 2 PLAN

SCALE: $\frac{1}{8}$" = 1'-0"

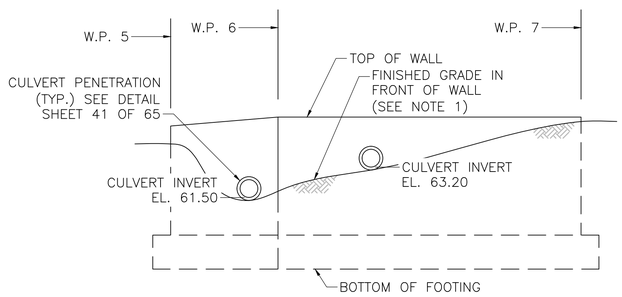
NOTES:

1. FINISHED GRADE IN FRONT OF WALL IS APPROXIMATE. CONTRACTOR SHALL DETERMINE FINISHED GRADE IN FIELD AS REQUIRED.
2. FOR WALL 1 & 2 SECTION, SEE SHEET 41 OF 65.



WALL 1 DEVELOPED ELEVATION

SCALE: $\frac{1}{8}$" = 1'-0"



WALL 2 DEVELOPED ELEVATION

SCALE: $\frac{1}{8}$" = 1'-0"

WALL 1					
W.P.	STATION	OFFSET	TOP OF WALL EL.	BOTTOM OF FOOTING EL.	FINISHED GRADE IN FRONT OF WALL EL.
1	36+39.18	19.94' LT	66.00'	58.00'	SEE NOTE 1
2	36+44.13	14.99' LT	68.00'	58.00'	
3	36+60.61	14.99' LT	68.00'	58.00'	
4	36+64.42	22.03' LT	65.25'	58.00'	

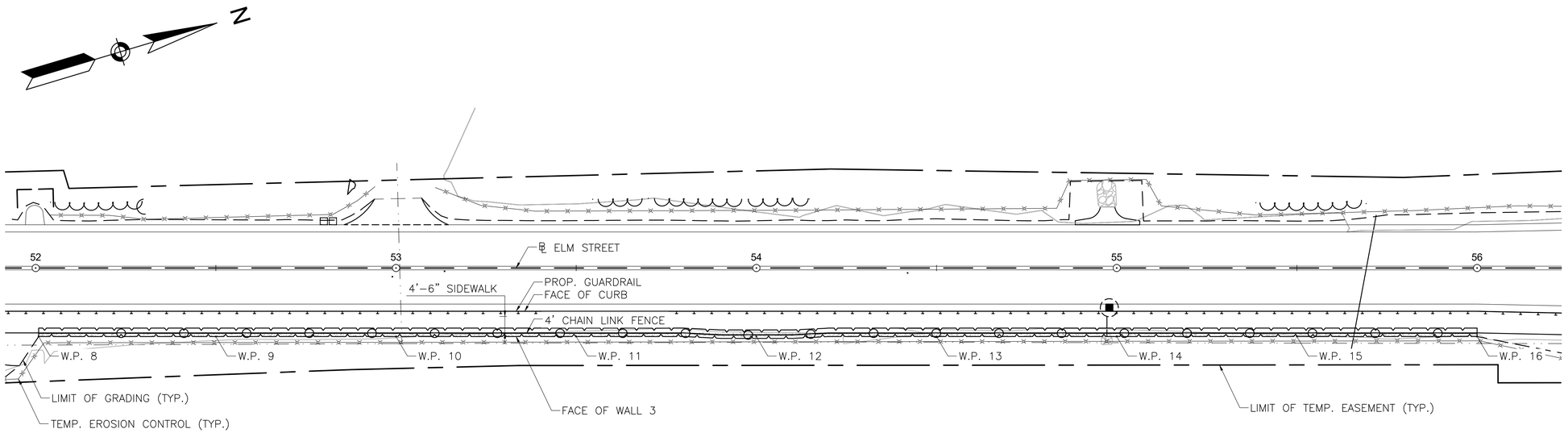
WALL 2					
W.P.	STATION	OFFSET	TOP OF WALL EL.	BOTTOM OF FOOTING EL.	FINISHED GRADE IN FRONT OF WALL EL.
5	37+73.62	27.64' RT	65.50'	57.50'	SEE NOTE 1
6	37+75.68	22.00' RT	66.00'	57.50'	
7	37+92.62	22.01' RT	66.00'	57.50'	

BRIDGEWATER
ELM STREET
RETAINING WALL DETAILS
SHEET 40 OF 65

WALL 3 PLAN & ELEVATION

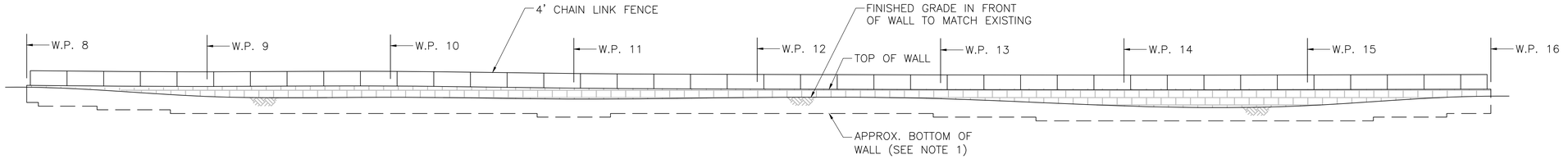
NOTES:

1. BOTTOM OF WALL ELEVATION SHALL BE DETERMINED BY WALL MANUFACTURER
2. FOR WALL 3 SECTION, SEE SHEET 41 OF 65.



WALL 3 PLAN

SCALE: $\frac{1}{16}$" = 1'-0"



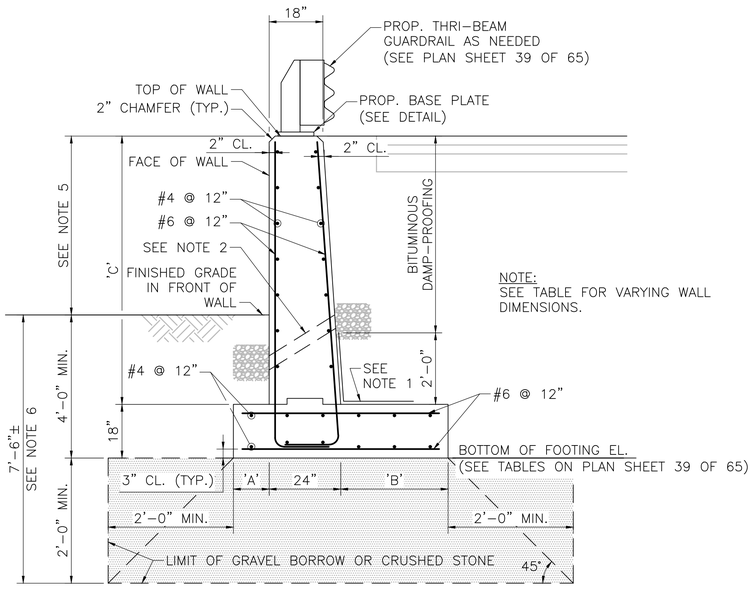
WALL 3 DEVELOPED ELEVATION

SCALE: $\frac{1}{16}$" = 1'-0"

WALL 3					
W.P.	STATION	OFFSET	TOP OF WALL EL.	FINISHED GRADE IN FRONT OF WALL EL.	BOTTOM OF WALL EL.
8	52+00.82	19.00' RT	64.68'	64.17'	SEE NOTE 1
9	52+50.00	19.00' RT	64.39'	61.65'	
10	53+00.00	19.00' RT	64.50'	61.42'	
11	53+50.00	19.00' RT	63.91'	60.94'	
12	54+00.00	19.00' RT	63.67'	61.37'	
13	54+50.00	19.00' RT	63.53'	61.04'	
14	55+00.00	19.00' RT	63.48	59.07'	
15	55+50.00	19.00' RT	63.52'	59.15'	
16	55+99.99	19.00' RT	63.63'	61.74'	

BRIDGEWATER
ELM STREET
RETAINING WALL DETAILS
SHEET 41 OF 65

WALL MISC. DETAILS



RETAINING WALL 1 & 2 SECTION

SCALE: $\frac{3}{4}$" = 1'-0"

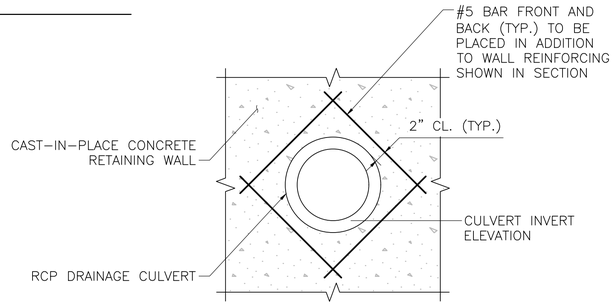
NOTES:

1. MEMBRANE WATERPROOFING AND 8"X16"X2", 4000 PSI, $\frac{3}{4}$ IN, 610 CEMENT CONCRETE BLOCKS LAID IN MORTAR OR OTHER WATERPROOFING PROTECTIVE COURSE, MIN. 2" THICK AS SPECIFIED IN MHD STANDARD SPECIFICATIONS.
2. 4" ø WEEP HOLES 10'-0" O.C. (JUST ABOVE PROTECTIVE COURSE). PROVIDE 1 CUBIC YARD OF CURSHED STONE AT EACH END OF WEEP HOLE.
3. ALL CONCRETE SHALL BE 4000 PSI, $1\frac{1}{2}$ IN, 565 CEMENT CONCRETE.
4. THE WALL 1 FACTORED BEARING PRESSURE = 2.23 KSF AS PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION.

   THE WALL 2 FACTORED BEARING PRESSURE = 1.96 KSF AS PER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS STRENGTH I LOAD COMBINATION.

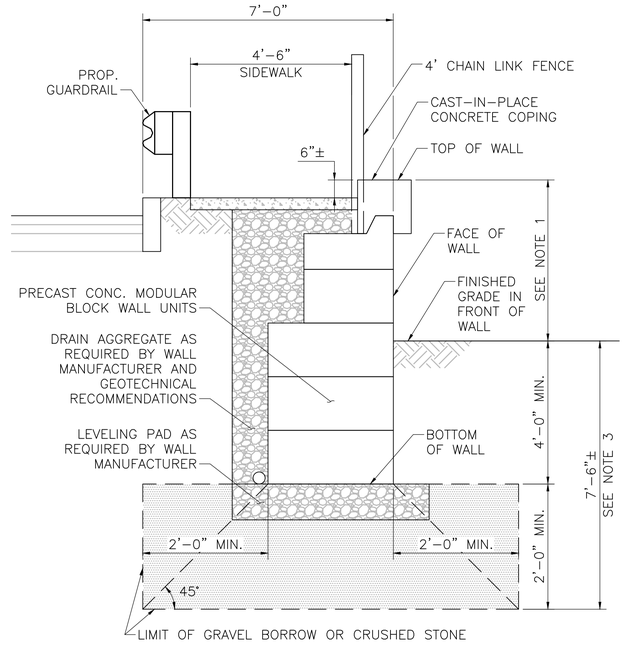
   FACTORED BEARING RESISTANCE = 2.42 KSF FACTORED BEARING RESISTANCE IS THE PRODUCT OF THE NOMINAL BEARING RESISTANCE AND A RESISTANCE FACTOR OF 0.55.
5. WALL EXPOSED HEIGHT VARIES. SEE TABLES SHEET 39 OF 65.
6. LIMIT OF EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. REFER TO GEOTECHNICAL REPORT DATED JUNE 6, 2019 PREPARED BY LAHLAF GEOTECHNICAL CONSULTING, INC.

WALL DIMENSIONS			
WALL #	A	B	C
1	2'-0"	3'-6"	8'-6"
2	1'-0"	3'-0"	7'-0"



CULVERT PENETRATION DETAIL

SCALE: $\frac{3}{4}$" = 1'-0"

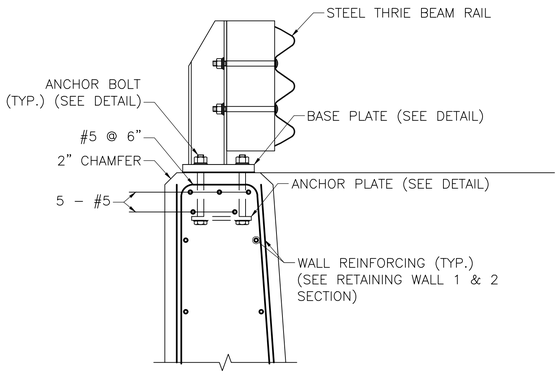


RETAINING WALL 3 SECTION

SCALE: $\frac{3}{4}$" = 1'-0"

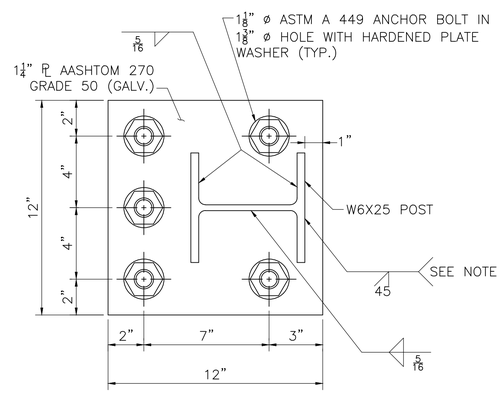
NOTES:

1. WALL EXPOSED HEIGHT VARIES. SEE TABLE SHEET 40 OF 65.
2. MODULAR BLOCK WALL (WALL 3), CONCRETE COPING, AND LEVELING PAD SHALL BE DESIGNED BY THE CONTRACTOR ACCORDING TO THE CONFIGURATION AND ELEVATIONS SHOWN ON THE PLANS (SEE SHEET 40 OF 65). THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF MASSACHUSETTS. TO THE ENGINEER FOR APPROVAL.
3. LIMIT OF EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. REFER TO GEOTECHNICAL REPORT DATED JUNE 6, 2019 PREPARED BY LAHLAF GEOTECHNICAL CONSULTING, INC.



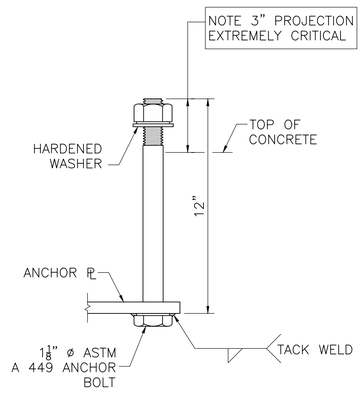
GUARD RAIL ANCHORAGE DETAIL

SCALE: 1" = 1'-0"



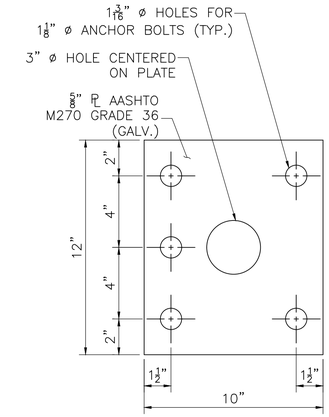
BASE PLATE DETAIL

SCALE: 3" = 1'-0"



ANCHOR BOLT DETAIL

SCALE: 3" = 1'-0"



ANCHOR PLATE DETAIL

SCALE: 3" = 1'-0"