



**US Army Corps  
of Engineers**®  
New England District  
Vermont Project Office  
11 Lincoln Street, Room 210  
Essex Junction, Vermont 05452

# PUBLIC NOTICE

**Comment Period Begins:** November 21, 2017  
**Comment Period Ends:** December 21, 2017  
**File Number:** NAE-2016-00933  
**In Reply Refer To:** Angela Repella  
**Phone:** (802) 872-2893  
**E-mail:** Angela.C.Repella@usace.army.mil

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The District Engineer has received a permit application to conduct work in waters of the United States from the Vermont Agency of Transportation, One National Life Drive, Montpelier, Vermont 05633-5001. This work is proposed in Lake Champlain at the North Hero-Grand Isle Bridge along U.S. Route 2 in North Hero and Grand Isle, Vermont. The site coordinates are: Latitude 44.76609° N, Longitude -73.28988° W.

The work involves the placement of fill in a total of 36,067 sq. ft. (0.83 acres) of Lake Champlain in conjunction with the replacement of Bridge No. 8, a twin leaf bascule bridge between North Hero and Grand Isle, Vermont, with a new twin leaf bascule bridge along the same alignment. Construction of the new bridge foundations will involve the placement of 7,748 sq. ft. (0.18 acre) of permanent fill below the ordinary high water mark (OHWM) of Lake Champlain. A temporary single leaf bascule bridge will be constructed to the west of the existing bridge to maintain vehicular and marine traffic during construction. A total of 21,511 (0.49 acre) of temporary fill will be placed below the OHWM of the lake for the construction of the temporary bridge, installation of the new permanent bridge foundations, and installation of temporary crane and barge pads. Approximately 6,808 sq. ft. (0.16 acre) of impact will result from removing and resetting the existing stone armored banks along the existing bridge approaches. Construction of the project is expected to last four construction seasons (anticipated 2018-2022). The purpose of the project is to replace an existing deteriorating bridge to provide a safe, efficient roadway for the traveling public.

The work is shown on the attached plans on twenty-one sheets, entitled North Hero-Grand Isle BHF 028-1(26)" (dated "July 26, 2017") and "NORTH HERO GRAND ISLE BRIDGE BHF 028-1(26)" (dated "8/4/2017", "11/14/2017", and "8/30/2017").

A majority of the project impacts are temporary in nature and will be removed upon project completion. The project involves the replacement of an existing deficient bridge along the same alignment. Impacts have been avoided and minimized to the maximum extent practicable. It has been determined that no mitigation is necessary.

## AUTHORITY

Permits are required pursuant to:

- ☐ Section 10 of the Rivers and Harbors Act of 1899
- ☒ Section 404 of the Clean Water Act
- ☐ Section 103 of the Marine Protection, Research and Sanctuaries Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against

its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (Corps), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The Corps will consider all comments received to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

#### **NATIONAL HISTORIC PRESERVATION ACT**

Based on his initial review, the District Engineer has determined that the proposed work may impact properties listed in, or eligible for listing in, the National Register of Historic Places. Additional review and consultation to fulfil requirements under Section 106 of the National Historic Preservation Act of 1966, as amended, will be ongoing as part of the permit review process.

#### **ENDANGERED SPECIES CONSULTATION**

The Corps has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

#### **OTHER GOVERNMENT AUTHORIZATIONS**

The following authorizations have been applied for, or have been, or will be obtained:

- ( X ) Permit, license or assent from State.
- (   ) Permit from local wetland agency or conservation commission.
- ( X ) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

**COMMENTS**

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Angela Repella at (978) 318-8639, or (802) 872-2893.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The Corps holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

**THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.**

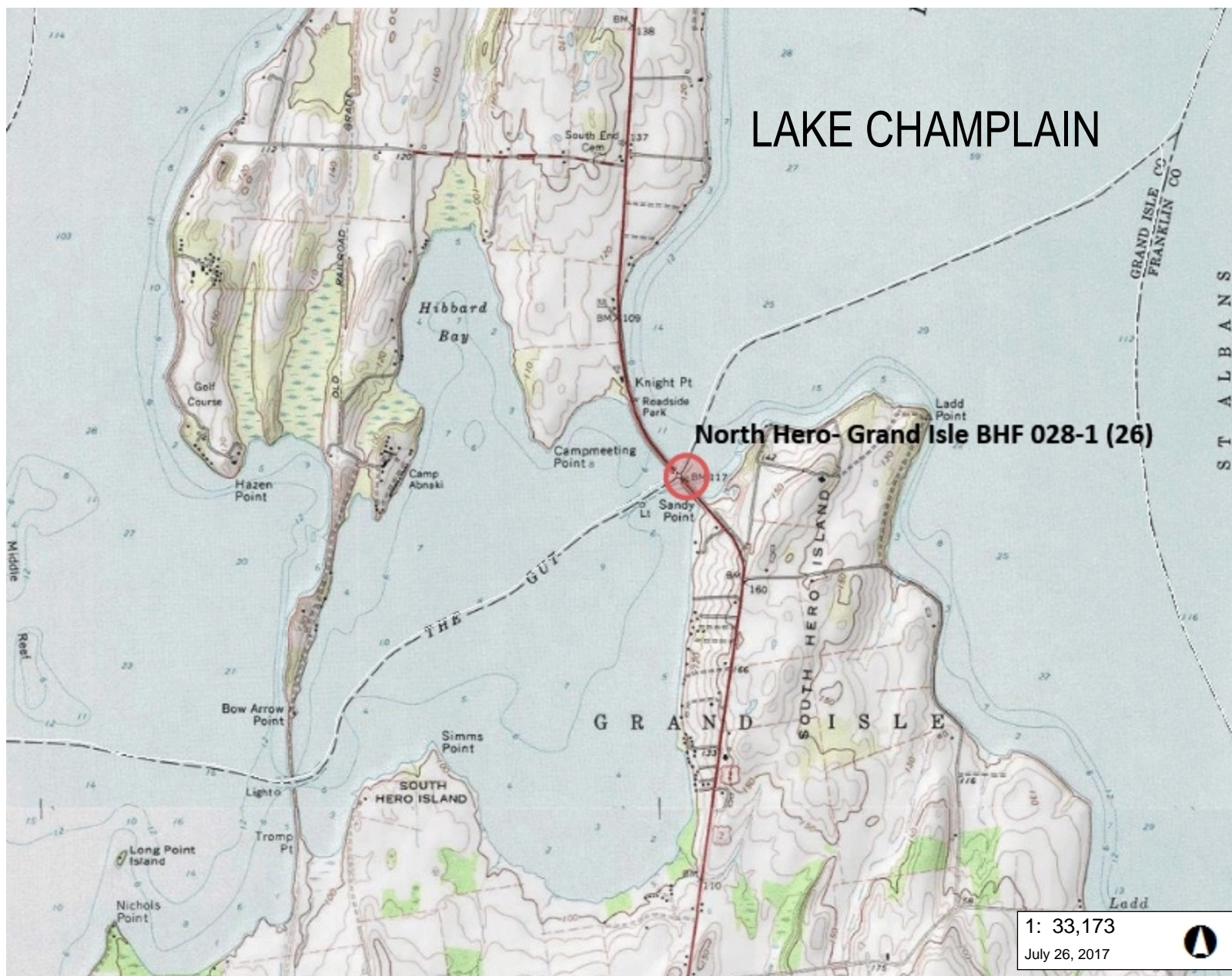
**Frank J. Delgiudice**  
**Chief, Permits and Enforcement Branch**  
**Regulatory Division**

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at [bettina.m.chaisson@usace.army.mil](mailto:bettina.m.chaisson@usace.army.mil). You may also check here ( ) and return this portion of the Public Notice to: Bettina Chaisson, Regulatory Division, U.S. Army Corps of Engineers, 696 Virginia Road, Concord, MA 01742-2751.

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_



## LEGEND

☐ Town Boundary

1: 33,173

July 26, 2017



## NOTES

Map created using ANR's Natural Resources Atlas

1,685.0 0 842.00 1,685.0 Meters

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere

© Vermont Agency of Natural Resources

1" = 2764 Ft. 1cm = 332 Meters

THIS MAP IS NOT TO BE USED FOR NAVIGATION

DISCLAIMER: This map is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. ANR and the State of Vermont make no representations of any kind, including but not limited to, the warranties of merchantability, or fitness for a particular use, nor are any such warranties to be implied with respect to the data on this map.



STATE OF VERMONT  
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT  
BRIDGE PROJECT

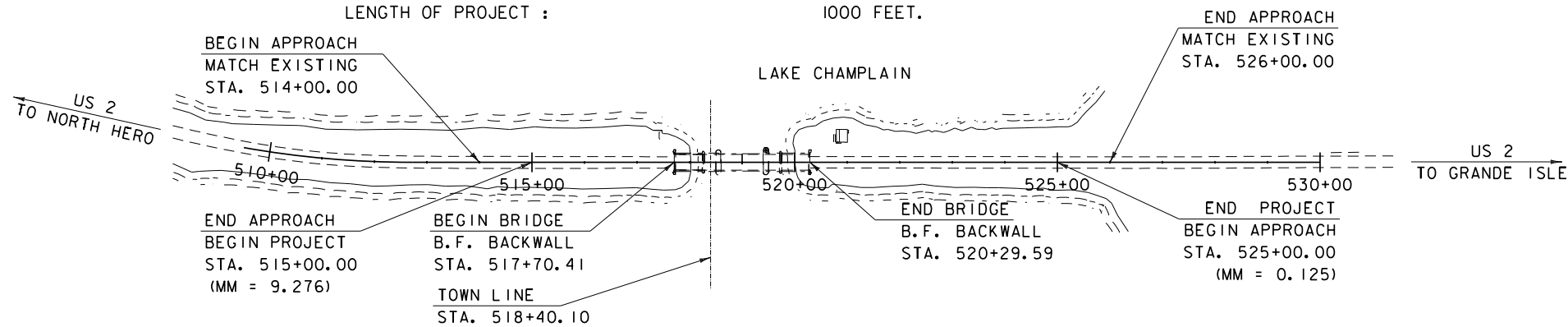
TOWN OF NORTH HERO - GRAND ISLE  
COUNTY OF GRAND ISLE

ROUTE NO : US ROUTE 2 (MINOR ARTERIAL) BRIDGE NO : 8

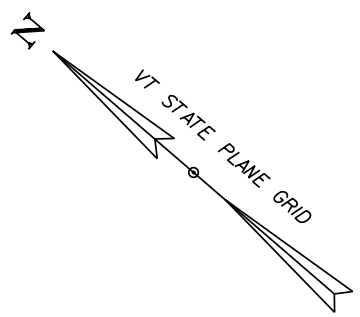
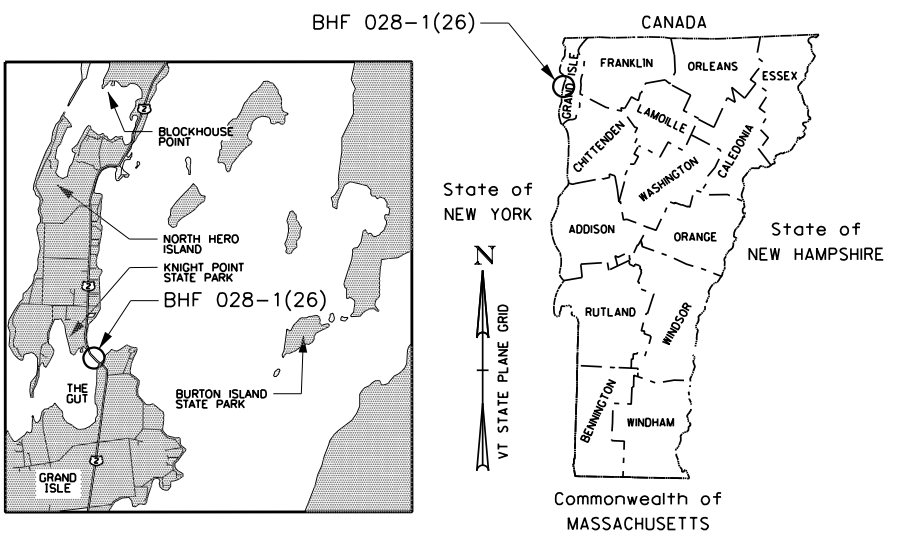
PROJECT LOCATION : BEGINS AT A POINT IN NORTH HERO 0.064 MI WEST OF THE NORTH HERO/GRANDE ISLE TOWN LINE  
(STA. 518+40.10) AND CONTINUES EASTERLY ON US 2 IN GRANDE ISLE FOR 0.125 MI.

PROJECT DESCRIPTION : REPLACEMENT OF EXISTING BASCULE BRIDGE, AND ASSOCIATED ROADWAY  
IMPROVEMENTS

LENGTH OF STRUCTURE : 259 FEET.  
LENGTH OF ROADWAY : 741 FEET.  
LENGTH OF PROJECT : 1000 FEET.



SCALE 1" = 150' - 0"  
150 0 150'

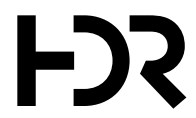


THESE PLANS ARE SUBJECT TO SUCH ENGINEERING  
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY  
ADMINISTRATION OR THE DIRECTOR OF PROGRAM  
DEVELOPMENT.  
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE  
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS  
FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE  
FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011  
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT  
REVISIONS AND SUCH REVISED SPECIFICATIONS AND  
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE  
PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL I	
SURVEYED BY : VT SURVEY AND ENG. , INC.	
SURVEYED DATE : JUNE 17, 2014	
DATUM	
VERTICAL	NAVD88 (GEOID12A)
HORIZONTAL	NAD 83 (2011)

SEMI-FINAL PLANS

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR	
APPROVED _____	DATE _____
DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED _____	DATE _____
PROJECT MANAGER : T. SUMNER	
PROJECT NAME : NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER : BHF 028-1(26)	
SHEET 1 OF 340 SHEETS	



FILE NAME = N:\Projects\ANY\K3\28173\CADD\MSTN\2b142\Consultants\z12b142leg.dgn  
DATE/TIME = 8/4/2017  
USER = 3724

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
▣	BNDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
⊙	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⊠	APL	BOUND APPARENT LOCATION
◦	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
◦	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
×	GSO	GAS SHUT OFF
◦	GUY	GUY POLE
◦	GUYW	GUY WIRE
×	GV	GATE VALUE
⊗	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
◦	IP	IRON PIN
◦	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
◦	PM	PARKING METER
▣	PMK	PROJECT MARKER
◦	POST	POST STONE/WOOD
⊕	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊕	SAT	SATELLITE DISH
⊕	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
◦	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
◦	WELL	WELL
×	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —	..	UTILITY (GENERIC-UNKNOWN)
— UT —	..	TELEPHONE
— UE —	..	ELECTRIC
— UC —	..	CABLE (TV)
— UEC —	..	ELECTRIC+CABLE
— UET —	..	ELECTRIC+TELEPHONE
— UCT —	..	CABLE+TELEPHONE
— UECT —	..	ELECTRIC+CABLE+TELEP.
— G —	..	GAS LINE
— W —	..	WATER LINE
— S —	..	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	..	UTILITY (GENERIC-UNKNOWN)
— T —	..	TELEPHONE
— E —	..	ELECTRIC
— C —	..	CABLE (TV)
— EC —	..	ELECTRIC+CABLE
— ET —	..	ELECTRIC+TELEPHONE
— AER E&T —	..	ELECTRIC+TELEPHONE
— CT —	..	CABLE+TELEPHONE
— ECT —	..	ELECTRIC+CABLE+TELEP.
—	..	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— -- — CZ — -- —		CLEAR ZONE
— — — — —		PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△ — — — — — △		TOP OF CUT SLOPE
○ — — — — — ○		TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗		STONE FILL
— — — — —		BOTTOM OF DITCH
— — — — —		CULVERT PROPOSED
— — — — —		STRUCTURE SUBSURFACE
PDF — — — — — PDF		PROJECT DEMARCATION FENCE
BF — — — — — BF		BARRIER FENCE
XXXXXXXXXXXXXXXXXXXX		TREE PROTECTION ZONE (TPZ)
///		STRIPING LINE REMOVAL
~~~~~		SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

— — — — —		TOWN BOUNDARY LINE
— — — — —		COUNTY BOUNDARY LINE
— — — — —		STATE BOUNDARY LINE
— — — — —		PROPOSED STATE R.O.W. (LIMITED ACCESS)
— — — — —		PROPOSED STATE R.O.W.
— — — — —		STATE ROW (LIMITED ACCESS)
— — — — —		STATE ROW
— — — — —		TOWN ROW
— . . . . .		PERMANENT EASEMENT LINE (P)
— - - - -		TEMPORARY EASEMENT LINE (T)
+		SURVEY LINE
P — — — — — P		PROPERTY LINE (P/L)
L — — — — — L		
SR — — — — — SR		SLOPE RIGHTS
6f — — — — — 6f		6F PROPERTY BOUNDARY
4f — — — — — 4f		4F PROPERTY BOUNDARY
HAZ — — — — — HAZ		HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO		FILTER CURTAIN
— — — — —		SILT FENCE
— X — X — X — X —		SILT FENCE WOVEN WIRE
— — — — —		CHECK DAM
— — — — —		DISTURBED AREAS REQUIRING RE-VEGETATION
— — — — —		EROSION MATTING

ENVIRONMENTAL RESOURCES

— — — — —		WETLAND BOUNDARY
— — — — —		RIPARIAN BUFFER ZONE
— — — — —		WETLAND BUFFER ZONE
— — — — —		SOIL TYPE BOUNDARY
— T&E —		THREATENED & ENDANGERED SPECIES
— HAZ —		HAZARDOUS WASTE AREA
— AG —		AGRICULTURAL LAND
— HABITAT —		FISH & WILDLIFE HABITAT
— FLOOD PLAIN —		FLOOD PLAIN
— OHW —		ORDINARY HIGH WATER (OHW)
— — — — —		STORM WATER
— — — — —		USDA FOREST SERVICE LANDS
— — — — —		WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

— ARCH —		ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —		HISTORIC DISTRICT BOUNDARY
— HISTORIC —		HISTORIC AREA
⊕		HISTORIC STRUCTURE

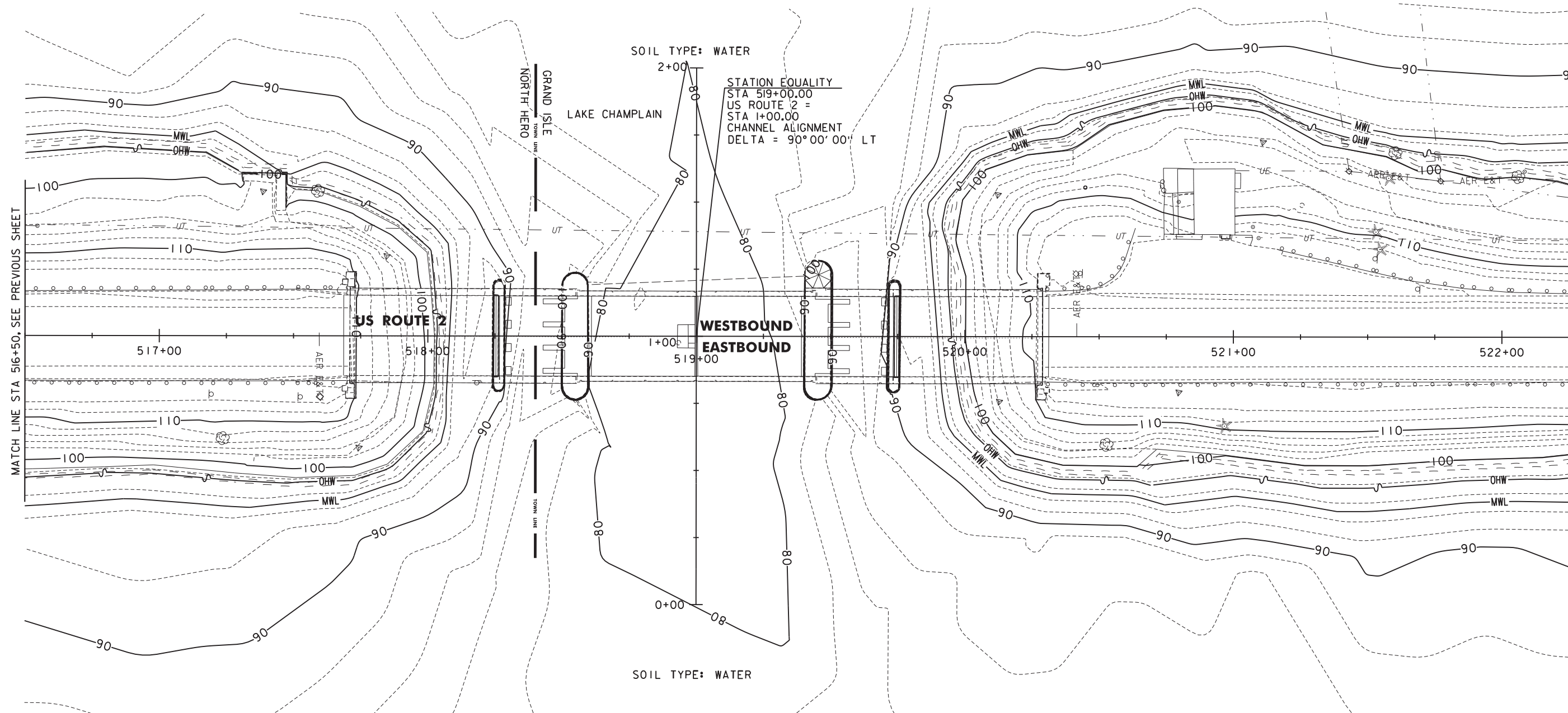
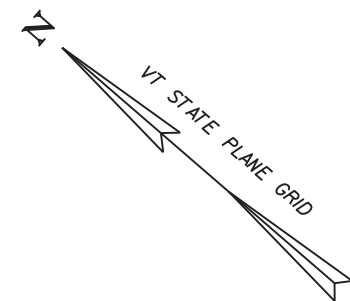
CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES

— — — — —		ROAD EDGE PAVEMENT
— — — — —		ROAD EDGE GRAVEL
— — — — —		DRIVEWAY EDGE
— — — — —		DITCH
— — — — —		FOUNDATION
— X — X — X — X —		FENCE (EXISTING)
— □ — □ — □ — □ —		FENCE WOOD POST
— ○ — ○ — ○ — ○ —		FENCE STEEL POST
— — — — —		GARDEN
— — — — —		ROAD GUARDRAIL
— — — — —		RAILROAD TRACKS
— — — — —		CULVERT (EXISTING)
— — — — —		STONE WALL
— — — — —		WALL
— — — — —		WOOD LINE
— — — — —		BRUSH LINE
— — — — —		HEDGE
— — — — —		BODY OF WATER EDGE
— — — — —		LEDGE EXPOSED

PROJECT NAME:	NORTH HERO GRAND ISLE BRIDGE
PROJECT NUMBER:	BHF 028-1(26)
FILE NAME:	z12b142leg.dgn
PROJECT LEADER:	D. GOZALKOWSKI
DESIGNED BY:	J. PARRELLI
CONVENTIONAL SYMBOLGY LEGEND SHEET	
PLOT DATE:	8/4/2017
DRAWN BY:	R. BROWN
CHECKED BY:	J. SHIELDS
SHEET	14 OF 340



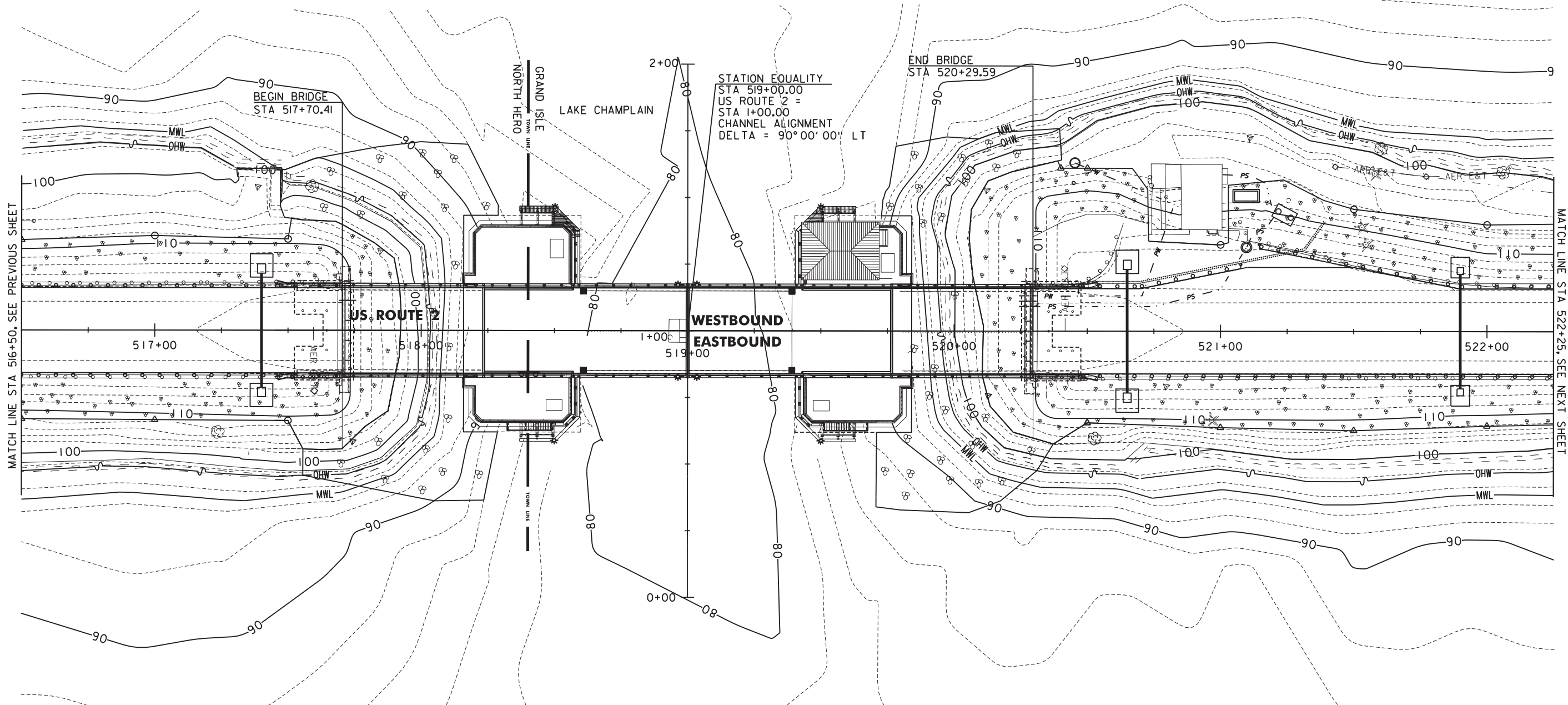
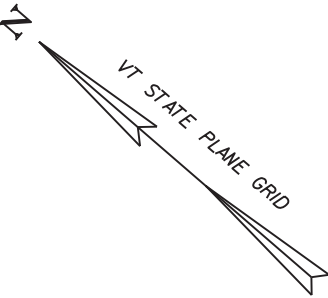


SCALE 1" = 20' - 0"



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142erobdr_ex.dgn	PLOT DATE: 8/4/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
EPSC EXISTING SITE PLAN SHEET 4	SHEET 316 OF 340

FILE NAME: \\p:\projects\ANY\K3\28173\CADD\MSTN12b142\Consultants\z12b142erobdr\_ex.dgn  
DATE/TIME: 8/4/2017  
USER: 3724



MATCH LINE STA 516+50, SEE PREVIOUS SHEET

MATCH LINE STA 522+25, SEE NEXT SHEET

STATION EQUALITY  
STA 519+00.00  
US ROUTE 2 =  
STA 1+00.00  
CHANNEL ALIGNMENT  
DELTA = 90° 00' 00" LT

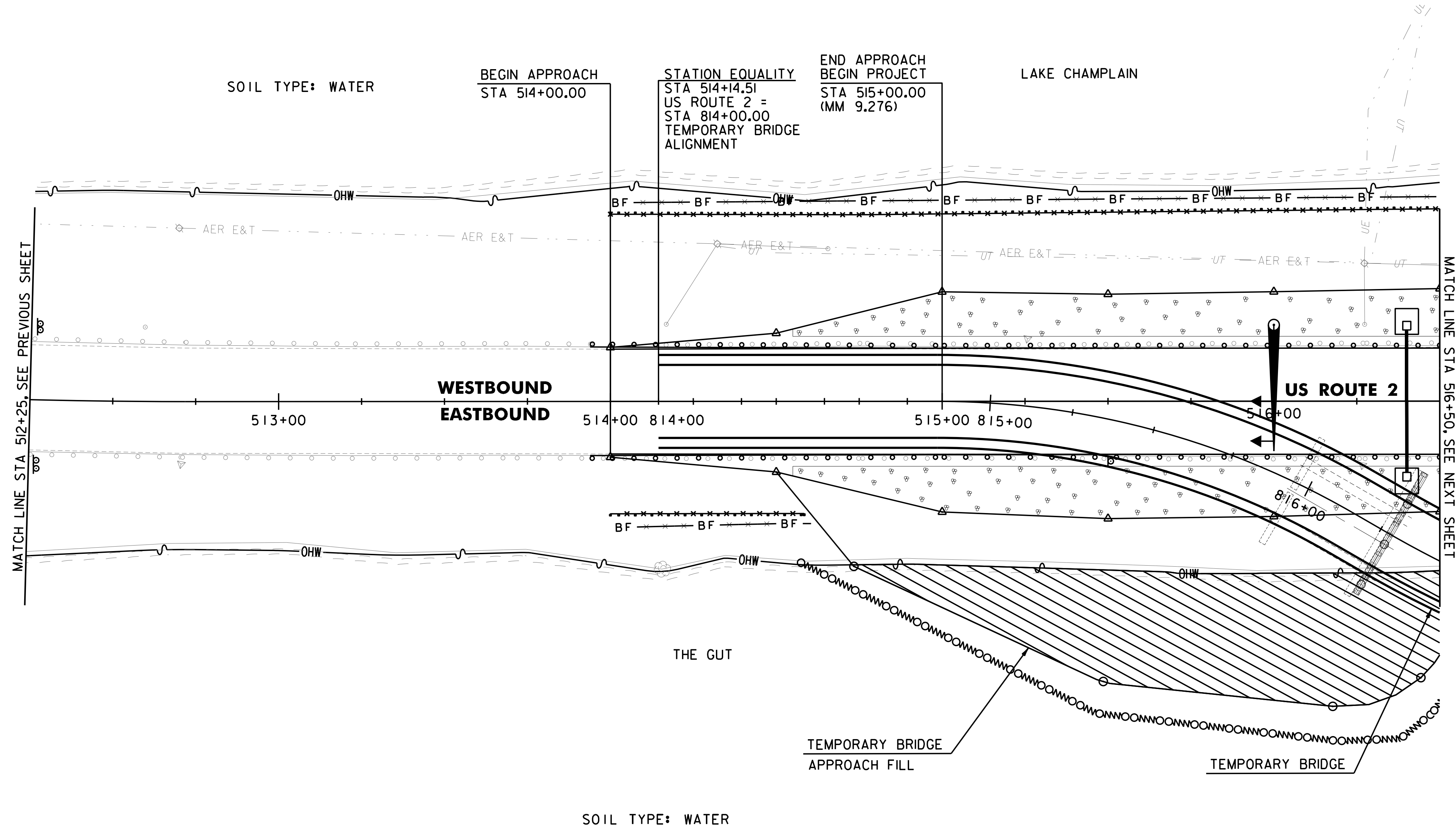
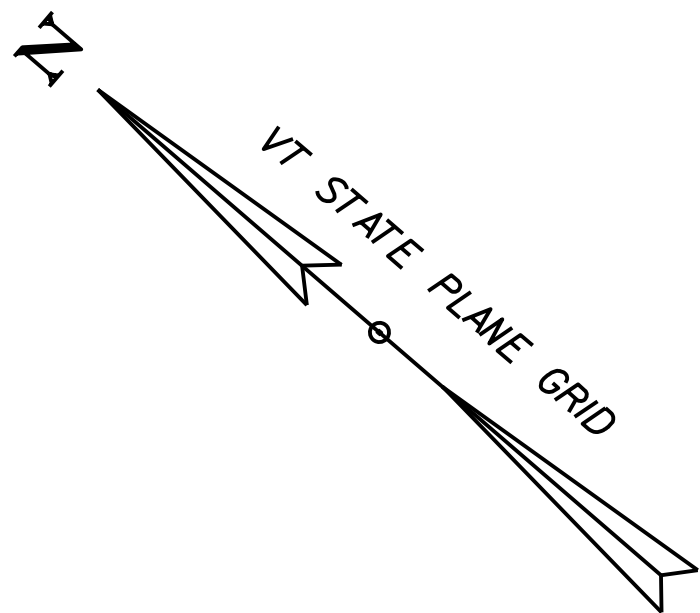
SCALE 1" = 20'-0"  
20 0 20



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142erobdr_fin.dgn	PLOT DATE: 8/4/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
EPSC FINAL SITE PLAN SHEET 4	SHEET 334 OF 340

FILE NAME = \\p:\projects\any\k3\28173\CADD\MSTN12b142\Consultants\z12b142erobdr\_fin.dgn  
DATE/TIME = 8/4/2017  
USER = 3724





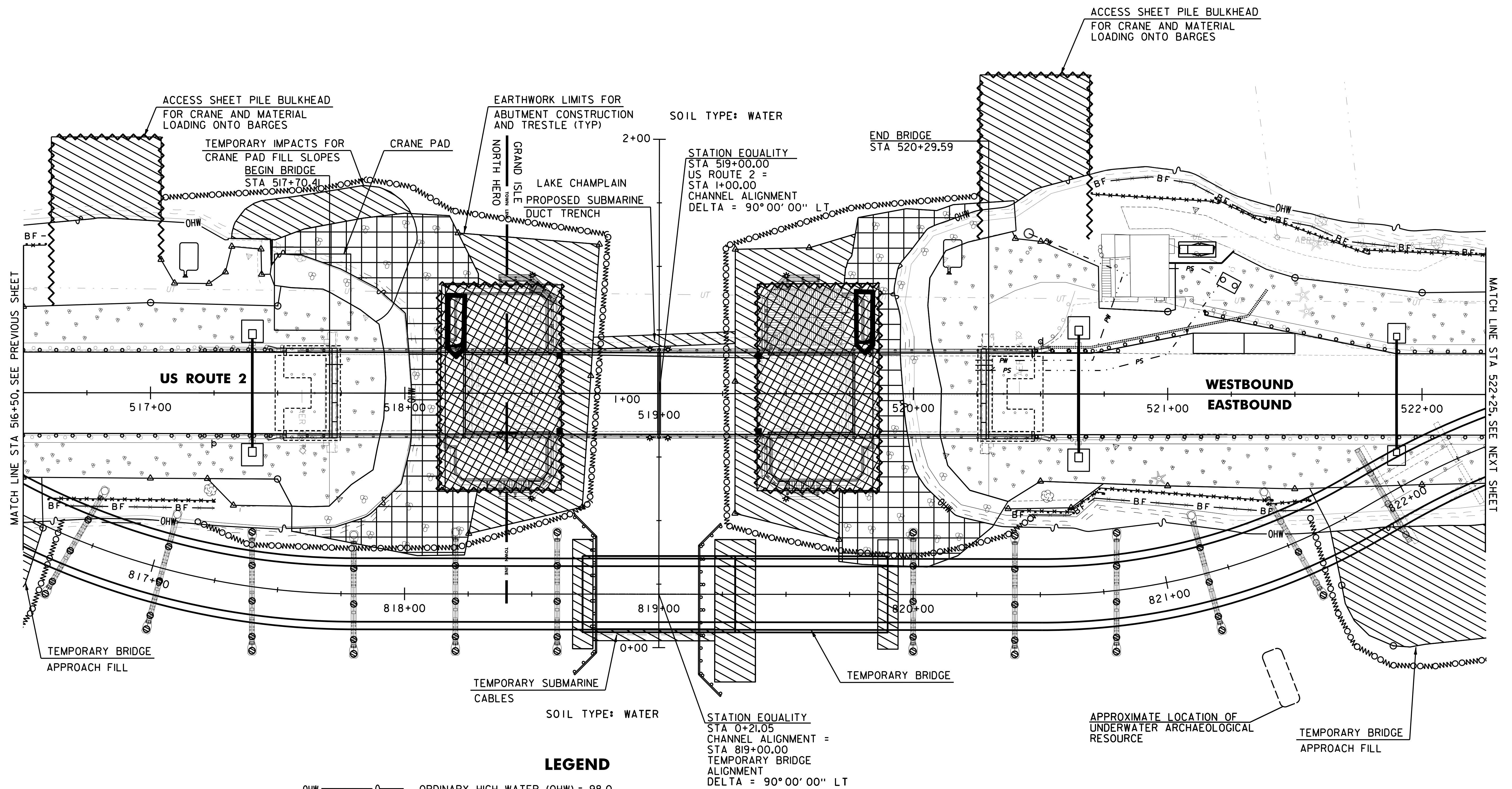
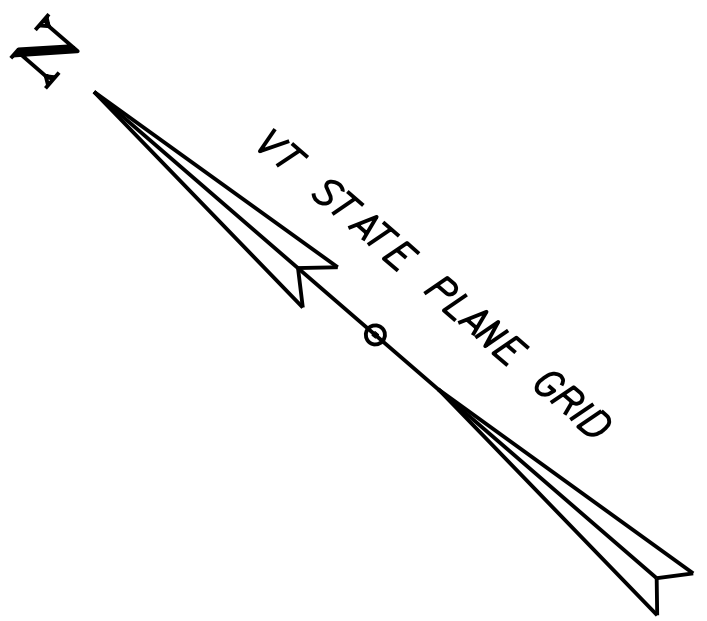
**LEGEND**

OHW	ORDINARY HIGH WATER (OHW) = 98.0
	REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 0.00 SF (0.000 ACRES) (THIS SHEET) REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 6808.00 SF (0.156 ACRES) (TOTAL)
	TEMPORARY IMPACTS BELOW OHW = 5,029.00 SF (0.115 ACRES) (THIS SHEET) TEMPORARY IMPACTS BELOW OHW = 21,511.00 SF (0.494 ACRES) (TOTAL)
	PERMANENT IMPACTS BELOW OHW = 0.00 SF (0.000 ACRES) (THIS SHEET) PERMANENT IMPACTS BELOW OHW = 7,748.00 SF (0.178 ACRES) (TOTAL)





SCALE 1" = 20' - 0"  
20 0 20



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142env_ohw.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
IMPACTS BELOW OHW SHEET 3	SHEET 3 OF 24



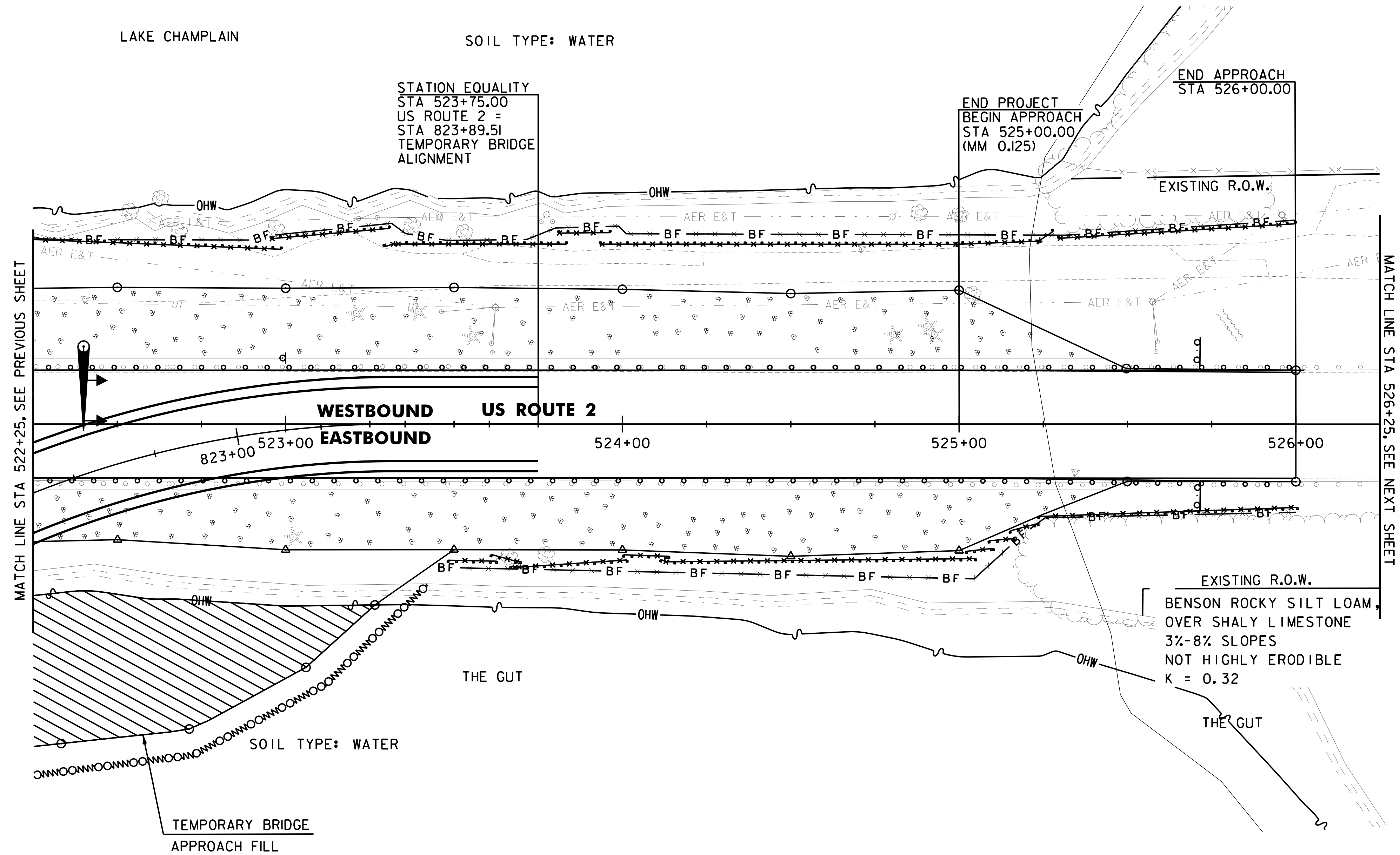
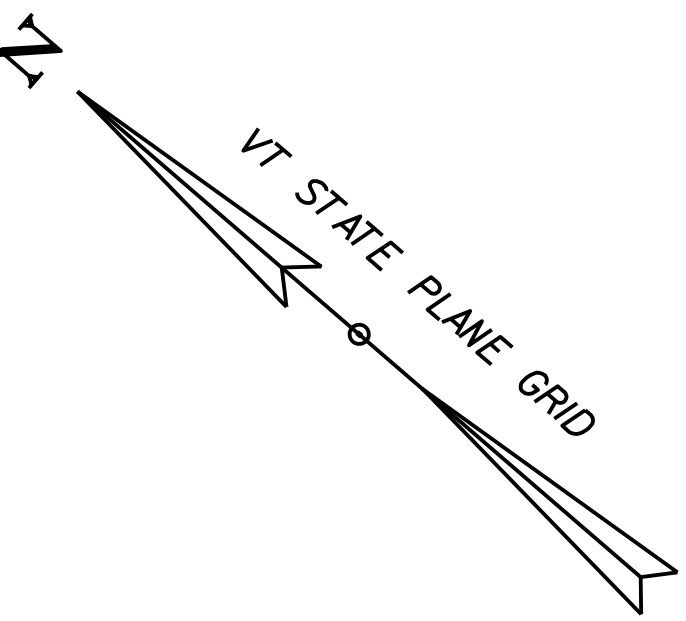
## LEGEND

OHW		ORDINARY HIGH WATER (OHW) = 98.0	DELTA = 90°00'00" LT
		REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 6808.00 SF (0.156 ACRES) (THIS SHEET) REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 6808.00 SF (0.156 ACRES) (TOTAL)	
		TEMPORARY IMPACTS BELOW OHW = 13,345.00 SF (0.306 ACRES) (THIS SHEET) TEMPORARY IMPACTS BELOW OHW = 21,511.00 SF (0.494 ACRES) (TOTAL)	
		PERMANENT IMPACTS BELOW OHW = 7,748.00 SF (0.178 ACRES) (THIS SHEET) PERMANENT IMPACTS BELOW OHW = 7,748.00 SF (0.178 ACRES) (TOTAL)	

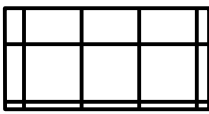
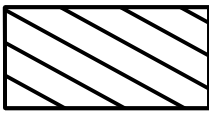
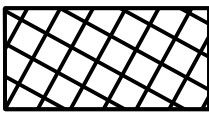
SCALE 1" = 20' - 0"

**CHIA**

PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142env_ohw.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
IMPACTS BELOW OHW SHEET 4	SHEET 4 OF 24



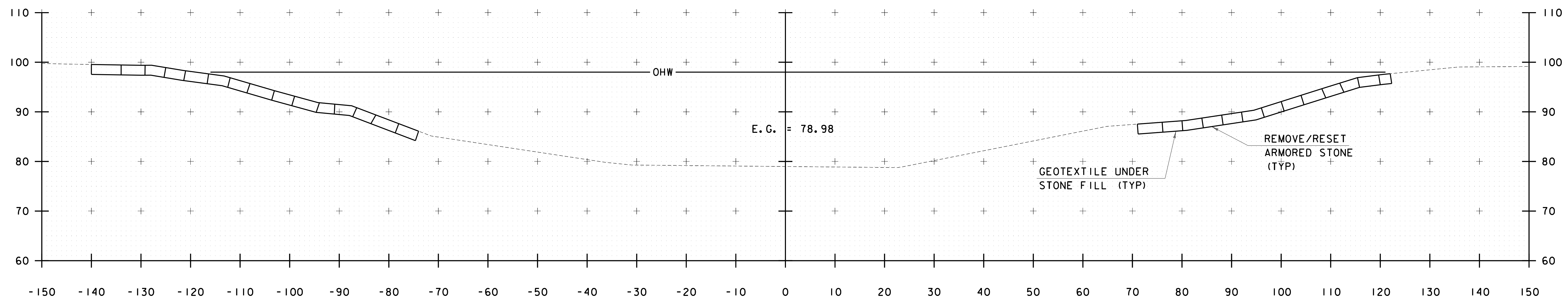
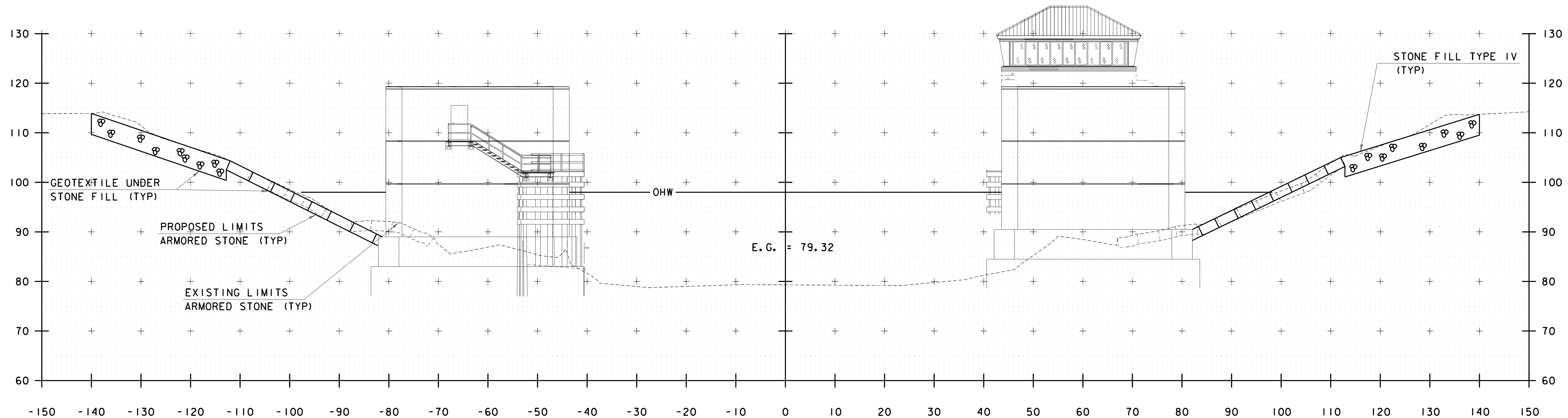
**LEGEND**

- OHW ——— ORDINARY HIGH WATER (OHW) = 98.0
-  REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 0.00 SF (0.000 ACRES) (THIS SHEET)  
REMOVE & RESET ARMORED STONE IMPACTS BELOW OHW = 6808.00 SF (0.156 ACRES) (TOTAL)
-  TEMPORARY IMPACTS BELOW OHW = 3,137.00 SF (0.072 ACRES) (THIS SHEET)  
TEMPORARY IMPACTS BELOW OHW = 21,511.00 SF (0.494 ACRES) (TOTAL)
-  PERMANENT IMPACTS BELOW OHW = 0.00 SF (0.000 ACRES) (THIS SHEET)  
PERMANENT IMPACTS BELOW OHW = 7,748.00 SF (0.178 ACRES) (TOTAL)

SCALE 1" = 20' - 0"  
20 0 20



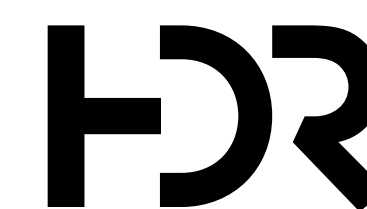
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142env.ohw.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
IMPACTS BELOW OHW SHEET 5	SHEET 5 OF 24



SCALE 1" = 10'-0"

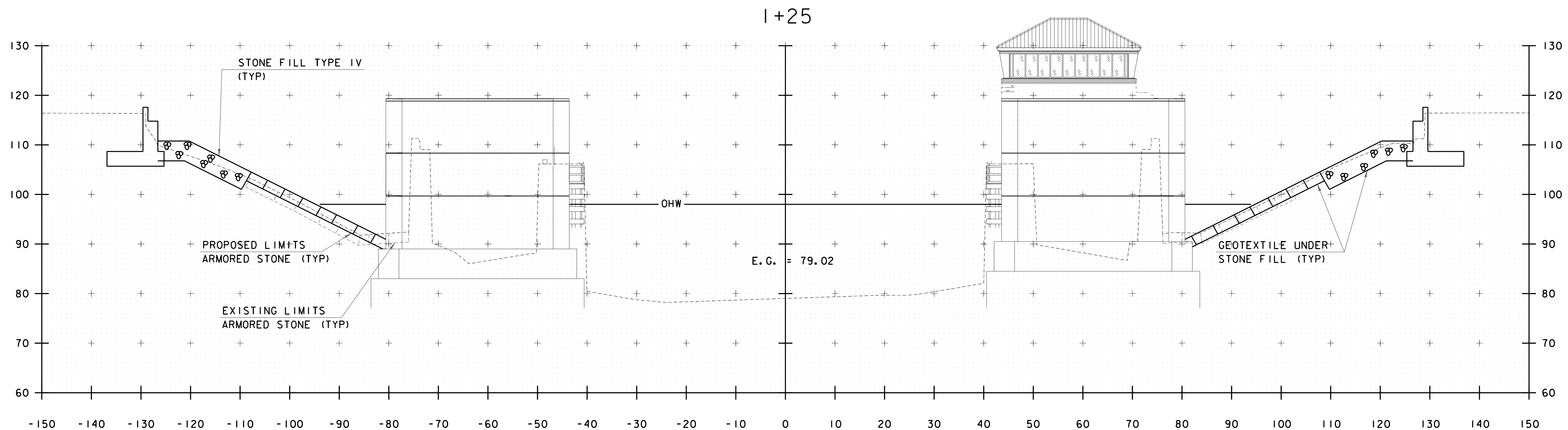
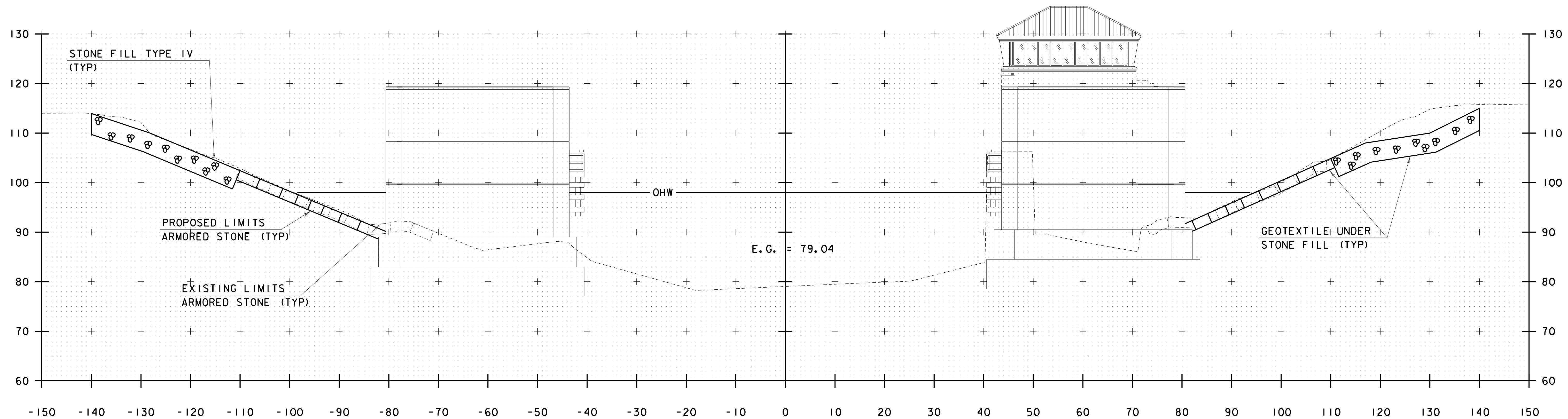
— OHW — ORDINARY HIGH WATER (OHW) = 98.0

# LEGEND



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-I(26)	
FILE NAME: z12bl42xcchan2.dgn	PLOT DATE: 8/30/2017
PROJECT LEADER: T. FRENCH	DRAWN BY: P. LEFEBVRE
DESIGNED BY:	CHECKED BY: M. MOZER
CHANNEL CROSS SECTIONS 2	SHEET 8 OF 24



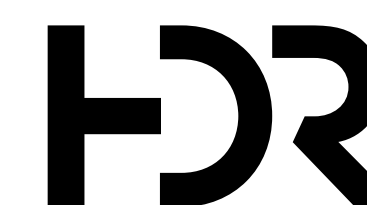


SCALE 1" = 10'-0"

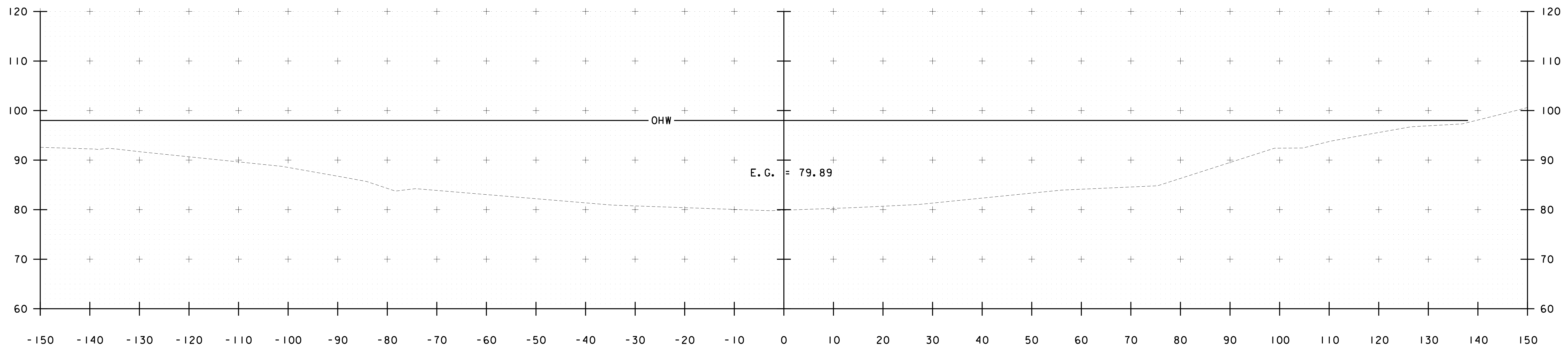
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# LEGEND

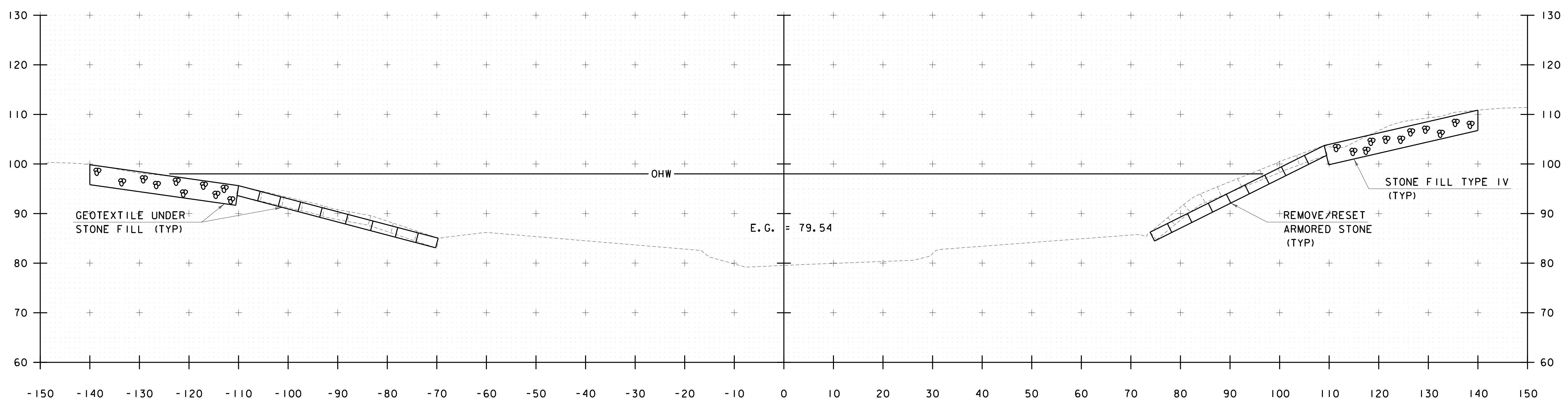
— OHW — ORDINARY HIGH WATER (OHW) = 98.0



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-I(26)	
FILE NAME: z12bl42xcchan3.dgn	PLOT DATE: 8/30/2017
PROJECT LEADER: T. FRENCH	DRAWN BY: P. LEFEBVRE
DESIGNED BY:	CHECKED BY: M. MOZER
CHANNEL CROSS SECTIONS 3	SHEET 9 OF 24



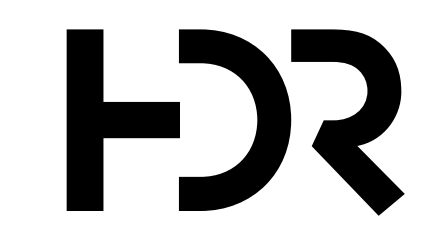
I+75



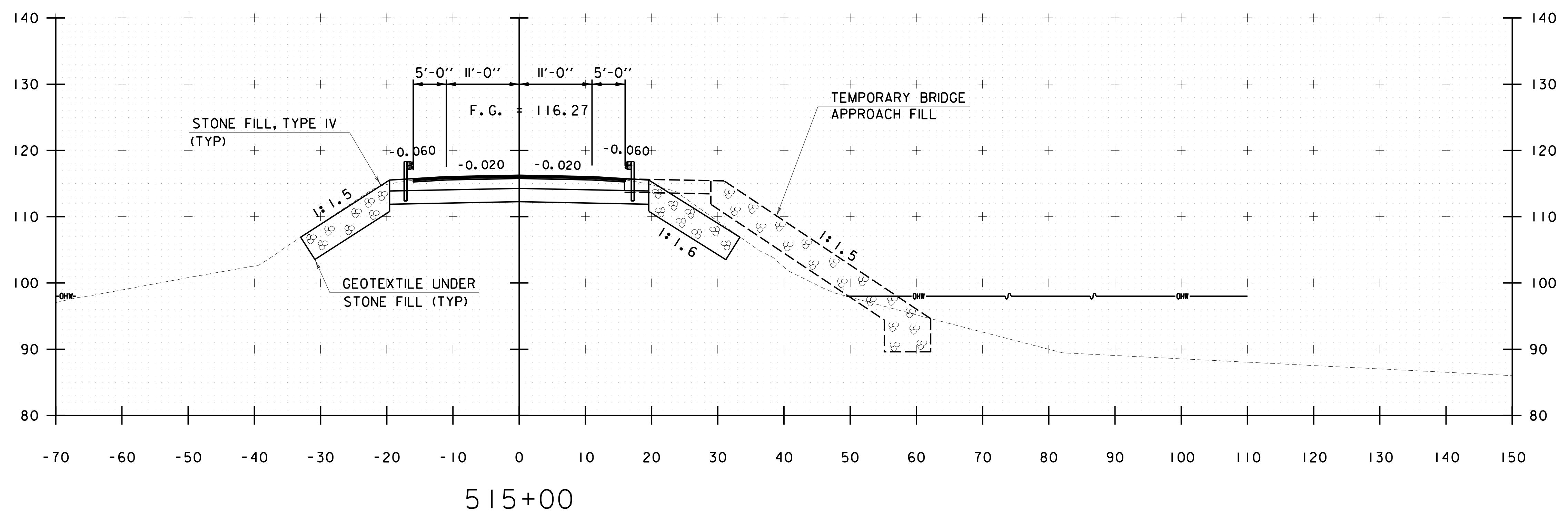
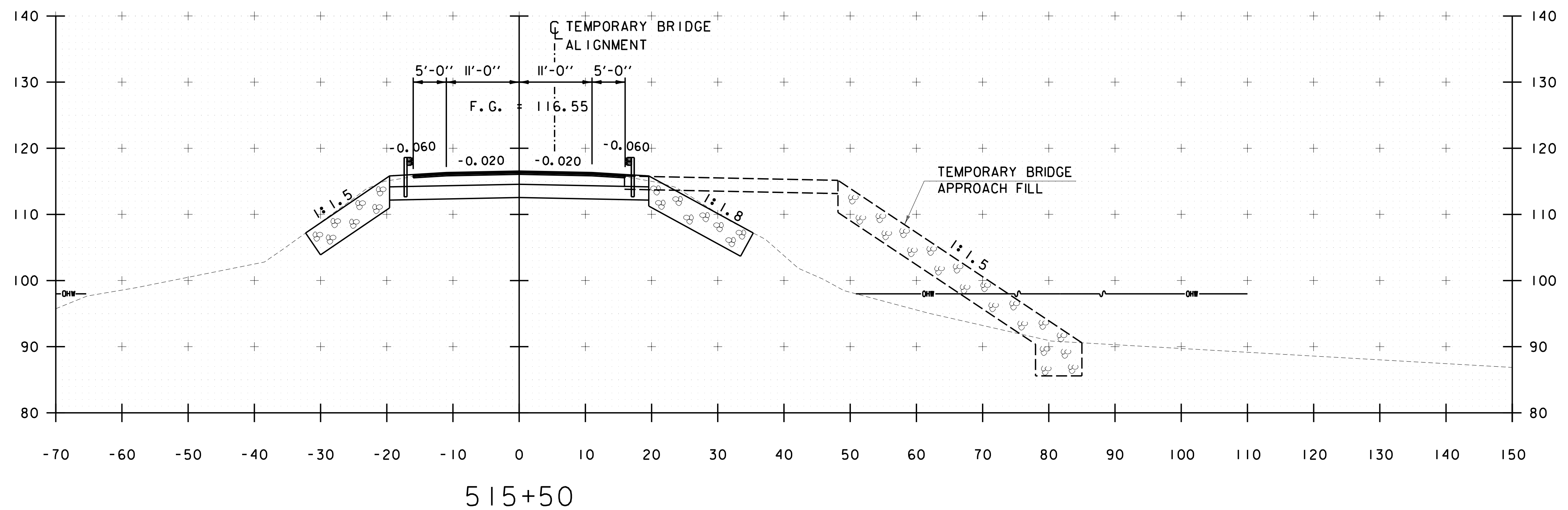
I+50

SCALE 1" = 10' - 0"  
10 0 10

**LEGEND**  
— OHW — ORDINARY HIGH WATER (OHW) = 98.0



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-I(26)	
FILE NAME: z12bl42xcchan4.dgn	PLOT DATE: 8/30/2017
PROJECT LEADER: T. FRENCH	DRAWN BY: P. LEFEBVRE
DESIGNED BY:	CHECKED BY: M. MOZER
CHANNEL CROSS SECTIONS 4	SHEET 10 OF 24



BEGIN PROJECT	STA 515+00.00
---------------	---------------

## LEGEND

— OHW —  ORDINARY HIGH WATER (OHW) = 98.0

STA. 515+00 TO STA. 515+50

PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE  
PROJECT NUMBER: BHF 028-1(26)

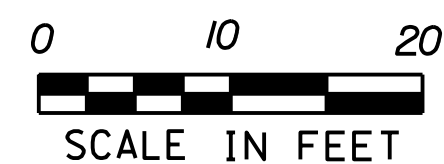
FILE NAME: z12bl42xc.dgn  
PROJECT LEADER: D. GOZALKOWSKI  
DESIGNED BY: J. PARRELLI  
CROSS SECTION SHEET 2

PLOT DATE: 11/14/2017  
DRAWN BY: R. BROWN  
CHECKED BY: J. SHIELDS  
SHEET 13 OF 24

**CHIA**

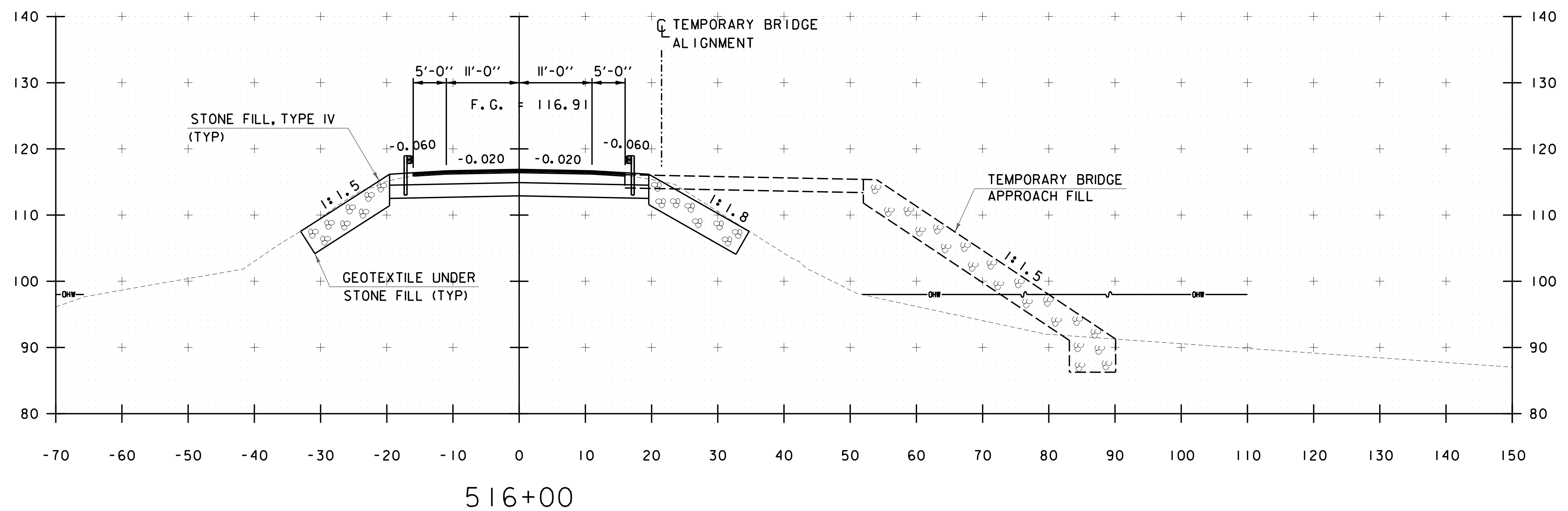
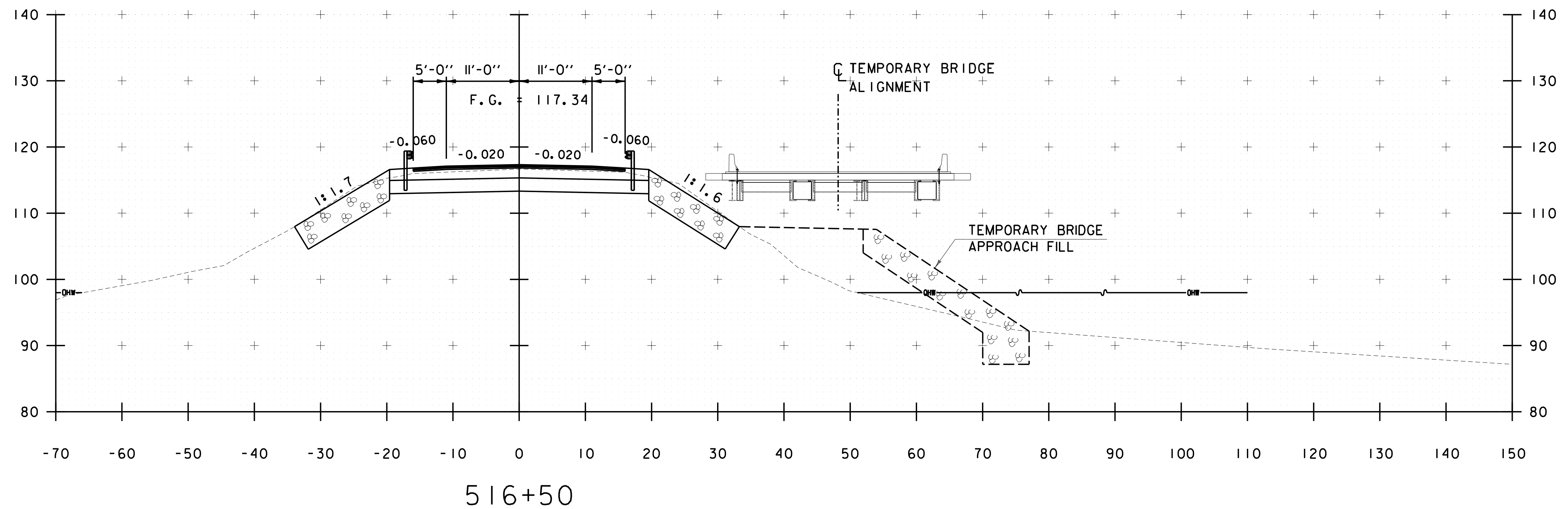
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DATE/TIME = 11/14/2017  
USER = 3724

FILE NAME: N:\Projects\ANY\K3\28173\CADD\MSTN\26142\Consultants\z12b142xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724



LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



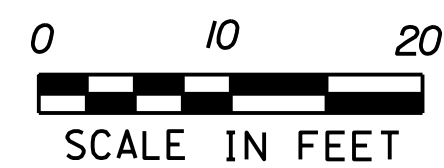
STA. 516+00 TO STA. 516+50



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET 3	SHEET 14 OF 24

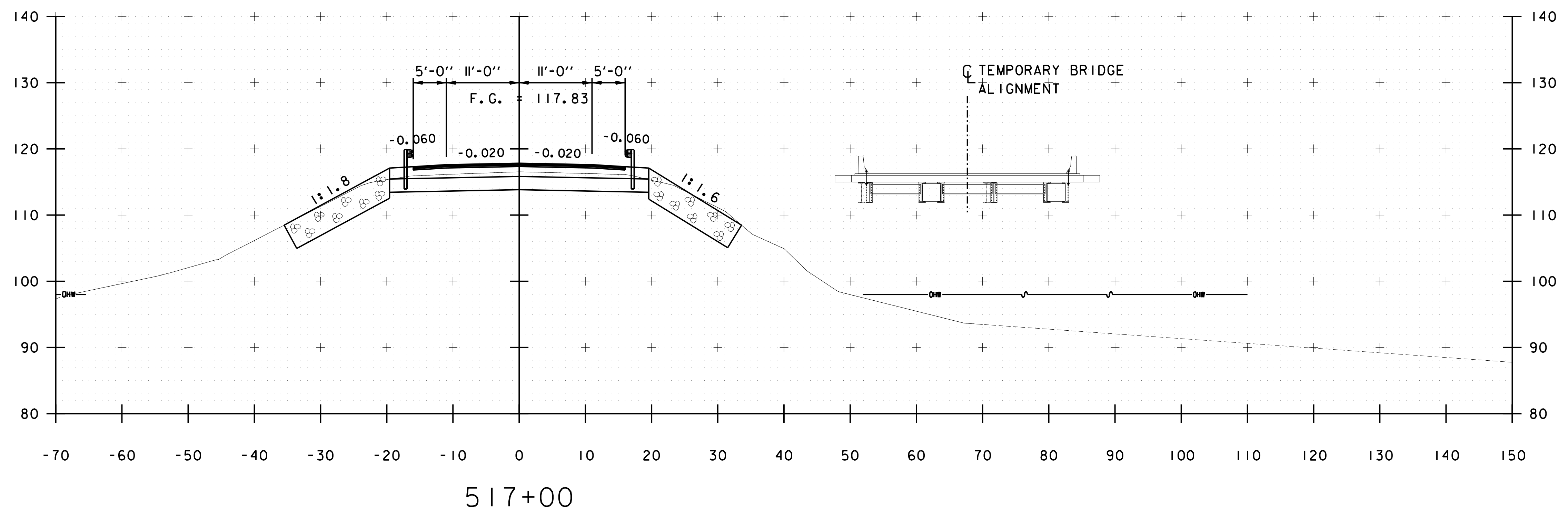
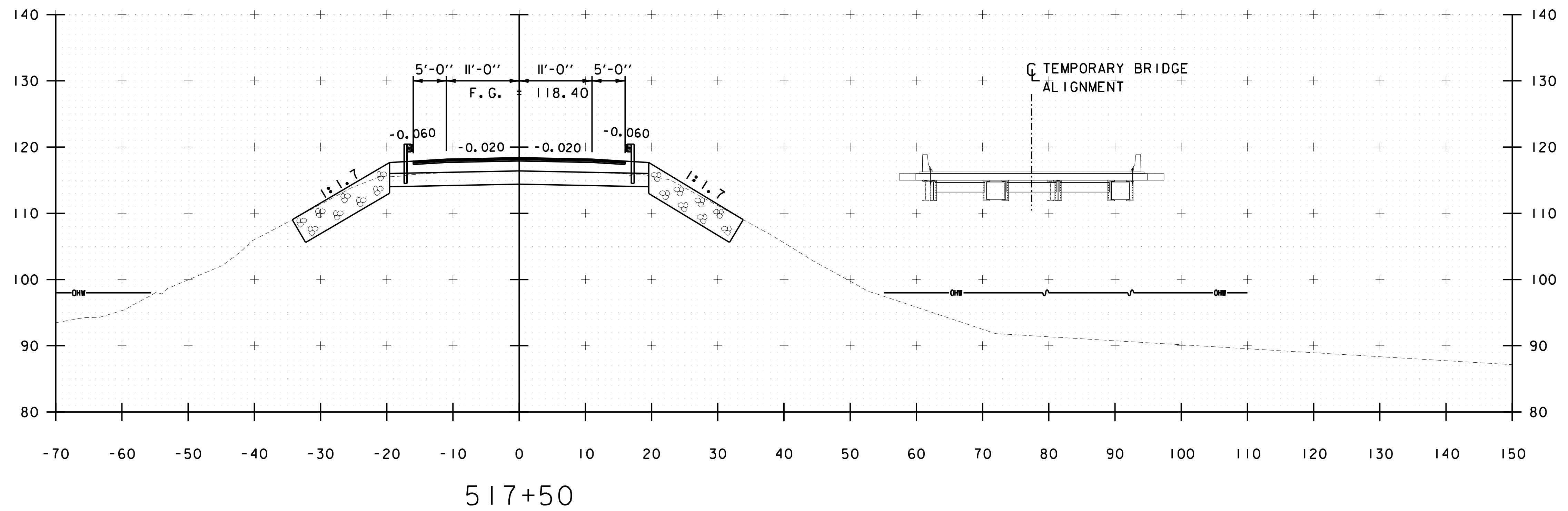


FILE NAME: N:\Projects\ANY\K3\28173\CADD\12b142\Consultants\12b142xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724



LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0

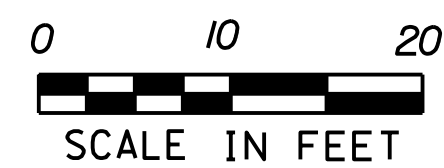


STA. 517+00 TO STA. 517+50

CHA

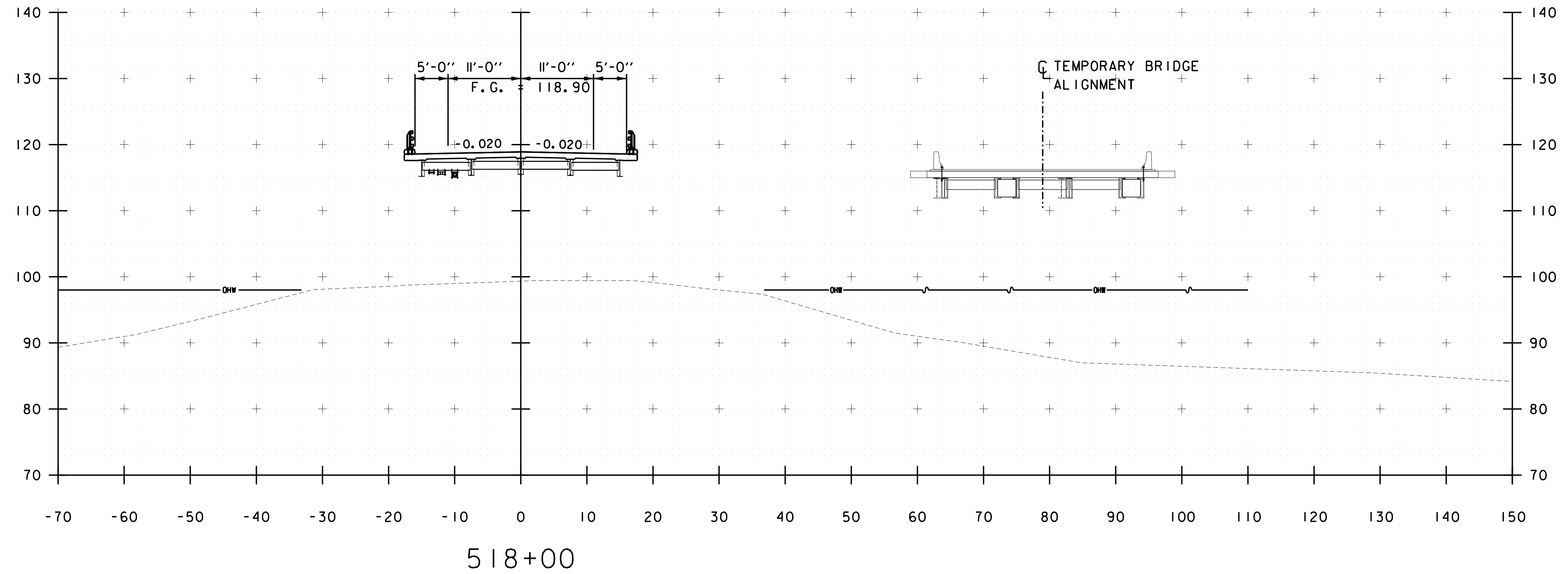
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET 4	SHEET 15 OF 24

FILE NAME: N:\Projects\ANY\K3\28173\CADD\MSTN\2b142\Consultants\212b142xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724

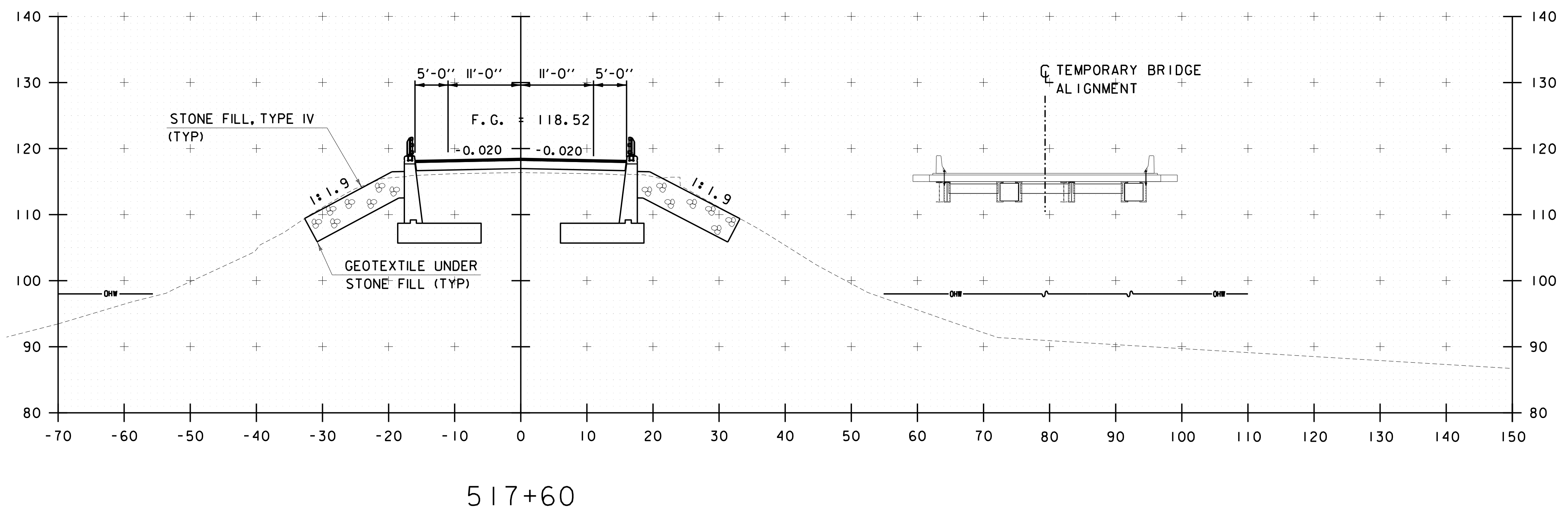


### LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



BEGIN BRIDGE STA 517+70.41



STA. 517+60 TO STA. 518+00

CHA

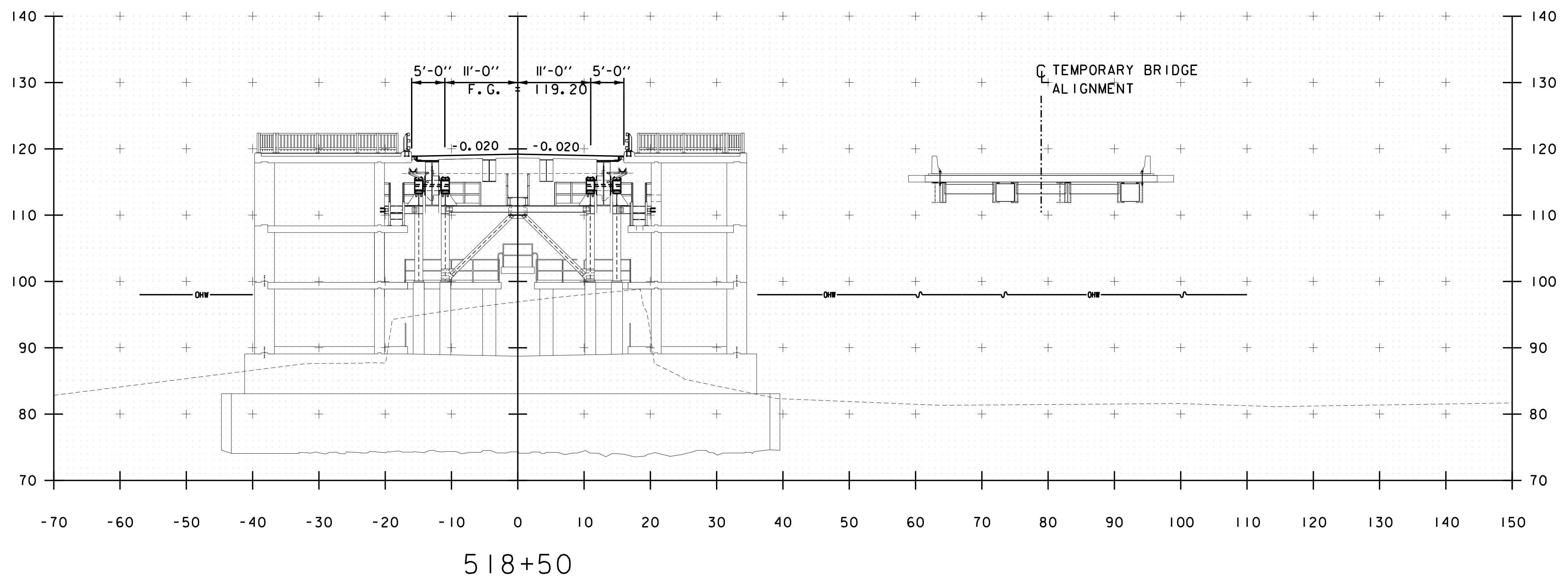
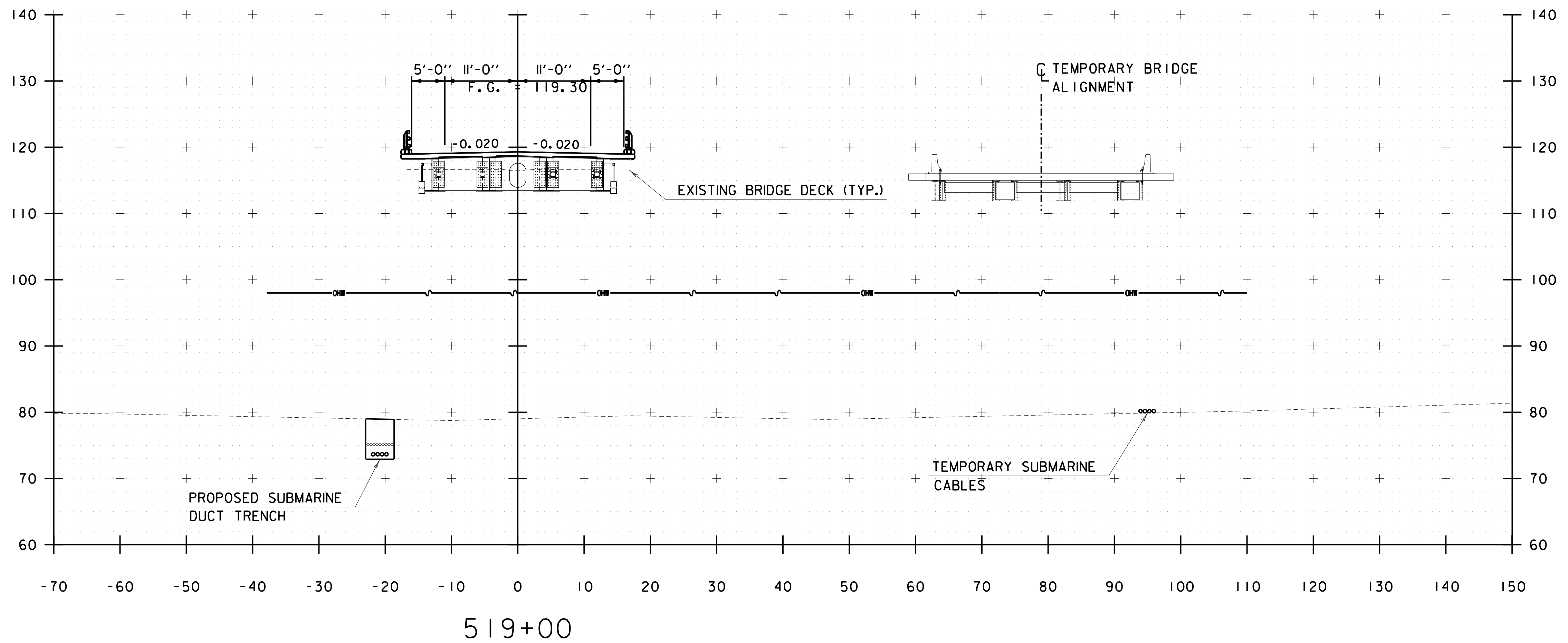
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET 5	SHEET 16 OF 24

FILE NAME: N:\Projects\ANY\K3\28173\CADD\12b142\Consultants\12b142xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724

0 10 20  
SCALE IN FEET

### LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



STA. 518+50 TO STA. 519+00

CHA

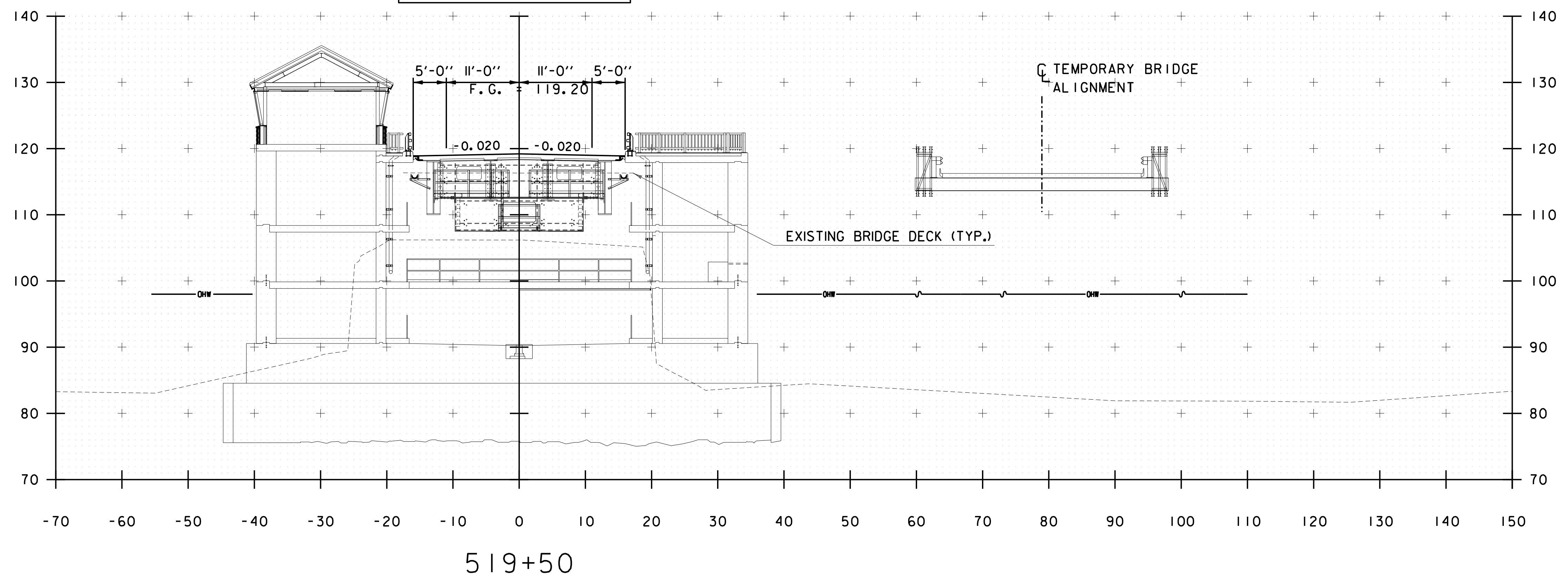
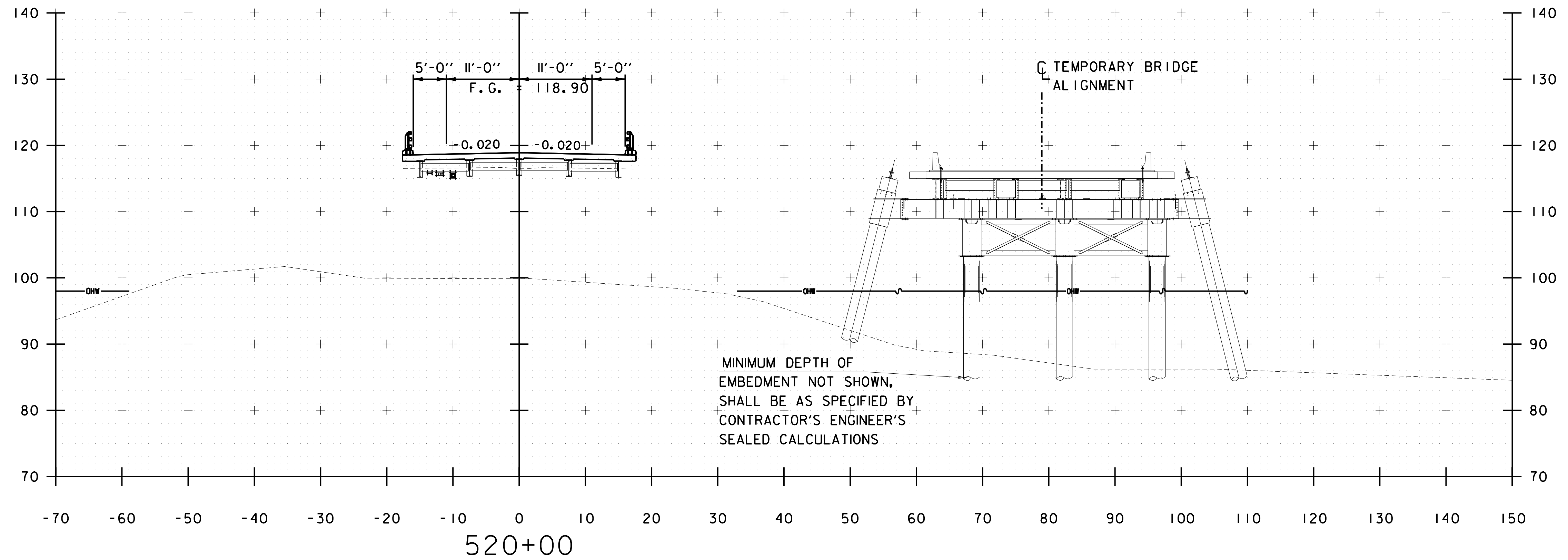
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET 6	SHEET 17 OF 24

FILE NAME: N:\Projects\NANY\K3\28173\CADD\MSTN\2b\42\Consultants\z12b\42xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724

0 10 20  
SCALE IN FEET

### LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



STA. 519+50 TO STA. 520+00

CHA

PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	PLLOT DATE: 11/14/2017
PROJECT NUMBER: BHF 028-1(26)	DRAWN BY: R. BROWN
FILE NAME: z12b142xc.dgn	CHECKED BY: J. SHIELDS
PROJECT LEADER: D. GOZALKOWSKI	SHEET 18 OF 24
DESIGNED BY: J. PARRELLI	
CROSS SECTION SHEET 7	

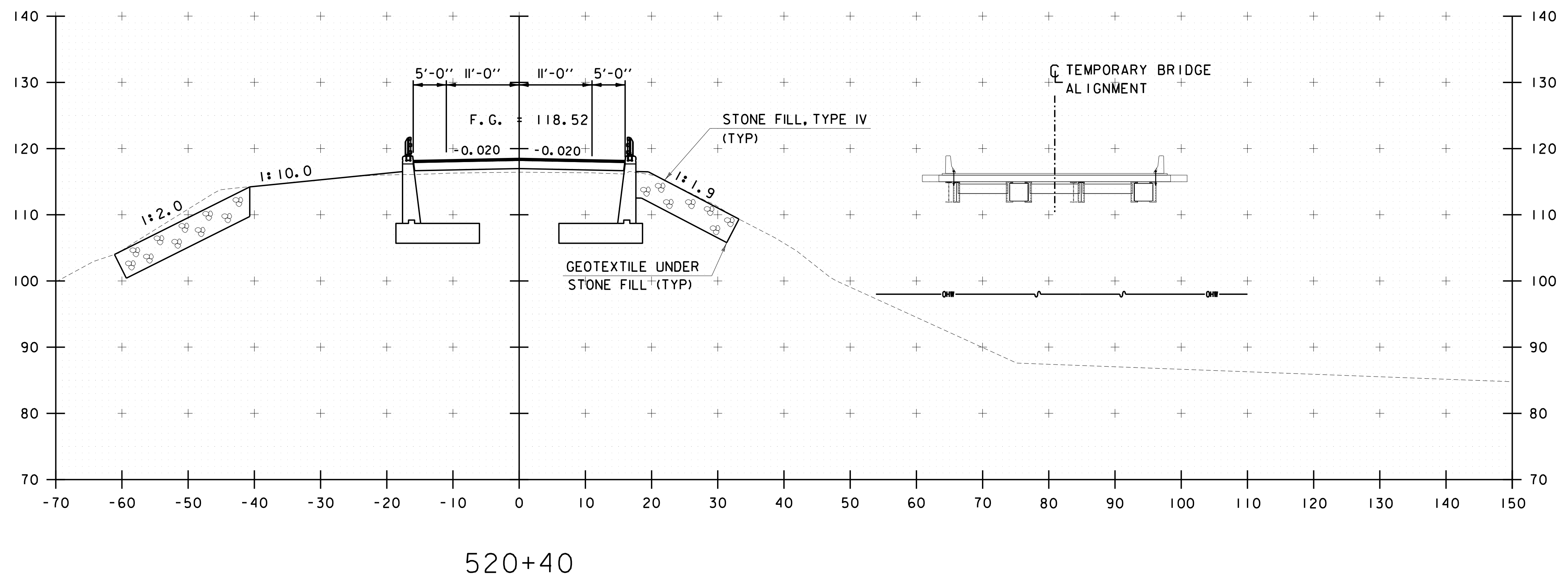
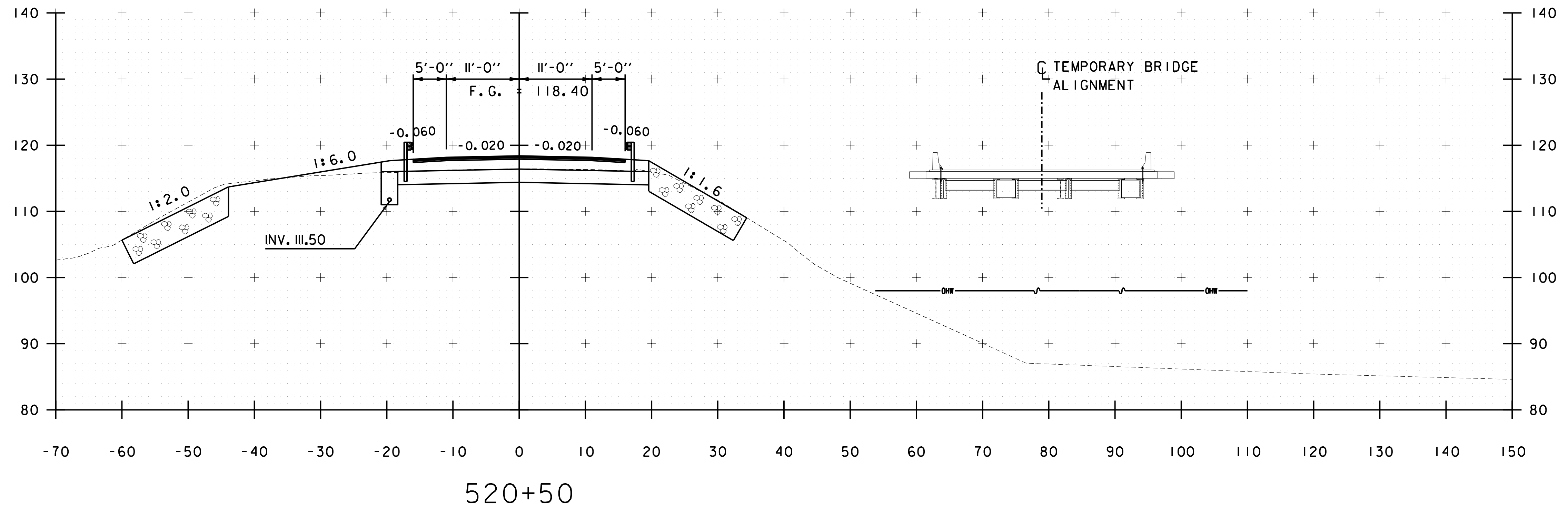


FILE NAME = N:\Projects\ANY\K3\28173\CADD\MSTN\2b\42\Consultants\z12b\42xc.dgn  
DATE/TIME = 11/14/2017  
USER = 3724

0 10 20  
SCALE IN FEET

### LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



STA. 520+40 TO STA. 520+50

CHA

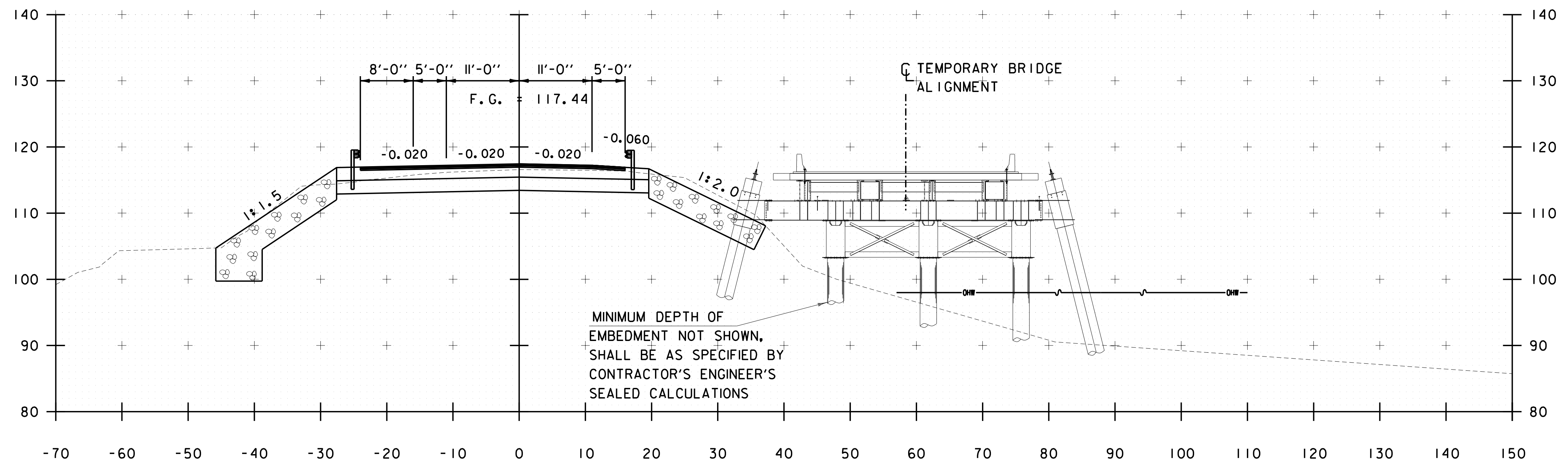
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	PLOT DATE: 11/14/2017
PROJECT NUMBER: BHF 028-1(26)	DRAWN BY: R. BROWN
FILE NAME: z12b142xc.dgn	CHECKED BY: J. SHIELDS
PROJECT LEADER: D. GOZALKOWSKI	SHEET 19 OF 24
DESIGNED BY: J. PARRELLI	
CROSS SECTION SHEET 8	

FILE NAME: N:\Projects\NANY\K3\28173\CADD\MSTN\28142\Consultants\z12b142xc.dgn  
DATE/TIME: 11/14/2017  
USER: 3724

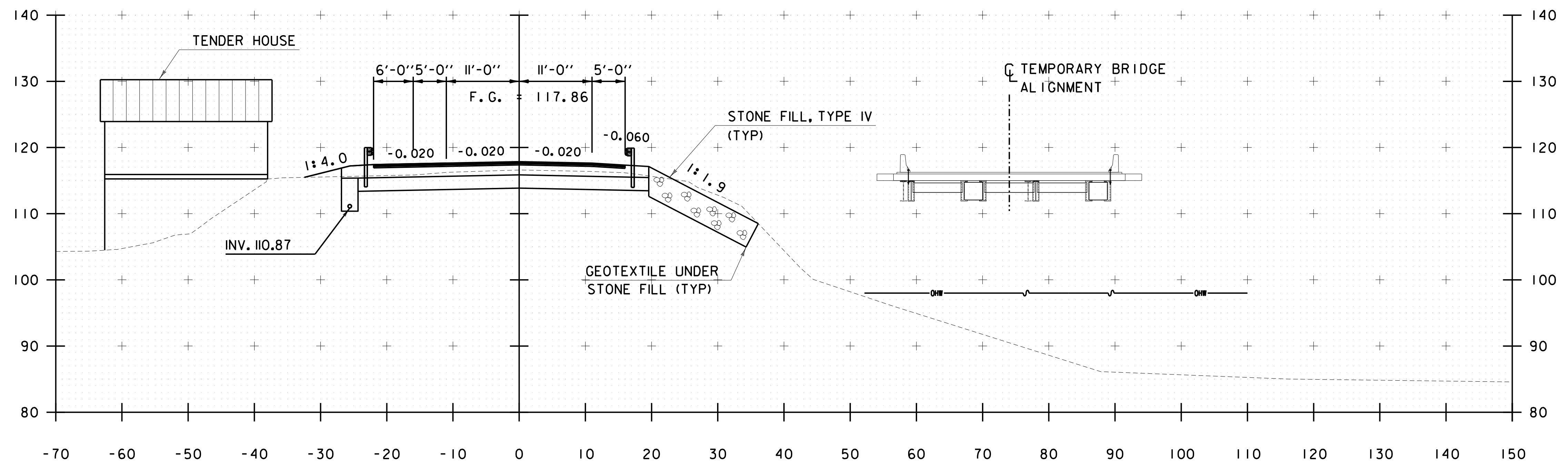
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SCALE IN FEET

### LEGEND

— OHW — ORDINARY HIGH WATER (OHW) = 98.0



521+50

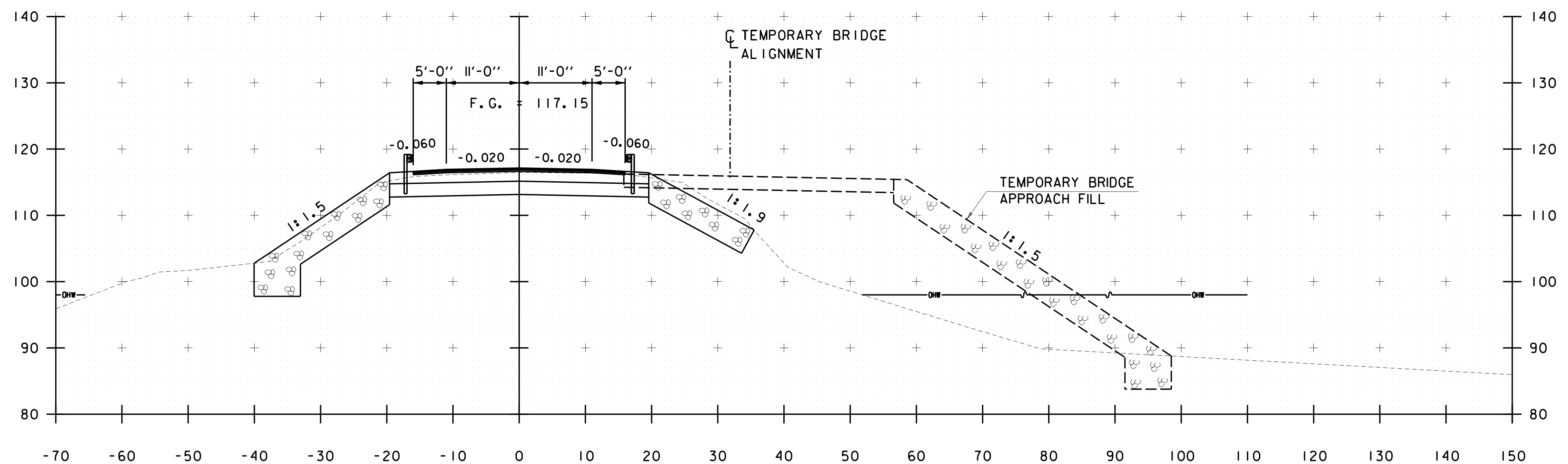
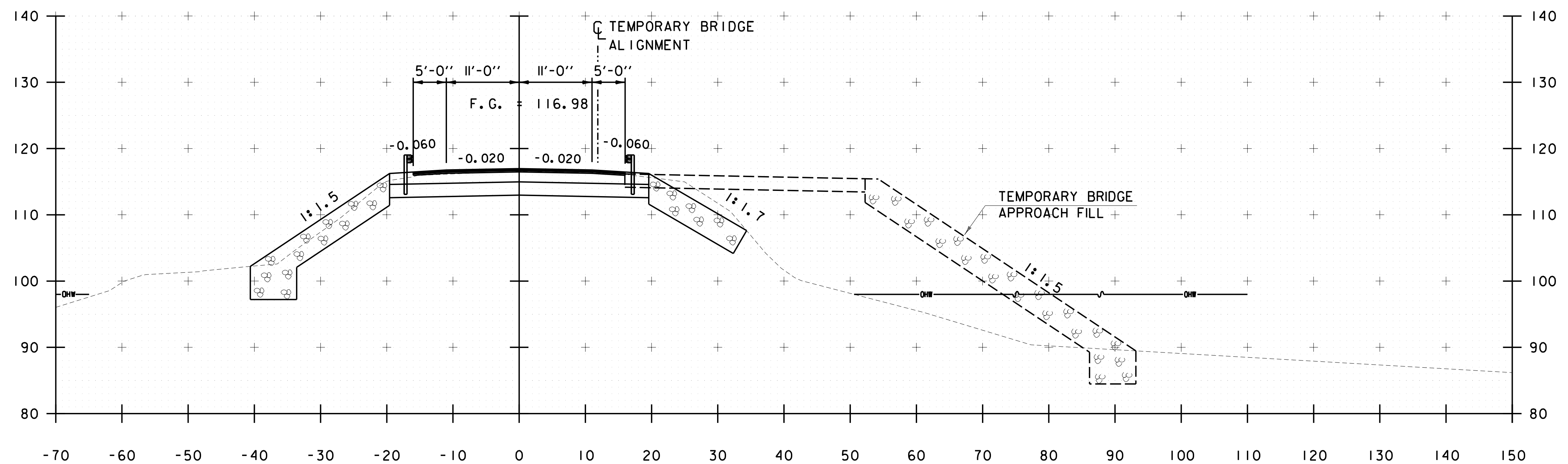


521+00

STA. 521+00 TO STA. 521+50

CHA

PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET 9	SHEET 20 OF 24



## LEGEND

— OHW —  ORDINARY HIGH WATER (OHW) = 98.0

STA. 522+00 TO STA. 522+50



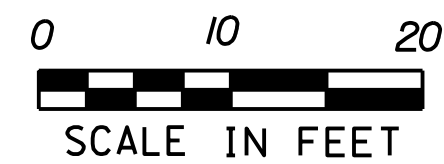
PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE  
PROJECT NUMBER: BHF 028-1(26)

FILE NAME: z12bl42xc.dgn  
PROJECT LEADER: D. GOZALKOWSKI  
DESIGNED BY: J. PARRELLI  
CROSS SECTION SHEET 10

PLOT DATE: 11/14/2017  
DRAWN BY: R. BROWN  
CHECKED BY: J. SHIELDS  
SHEET 21 OF 24

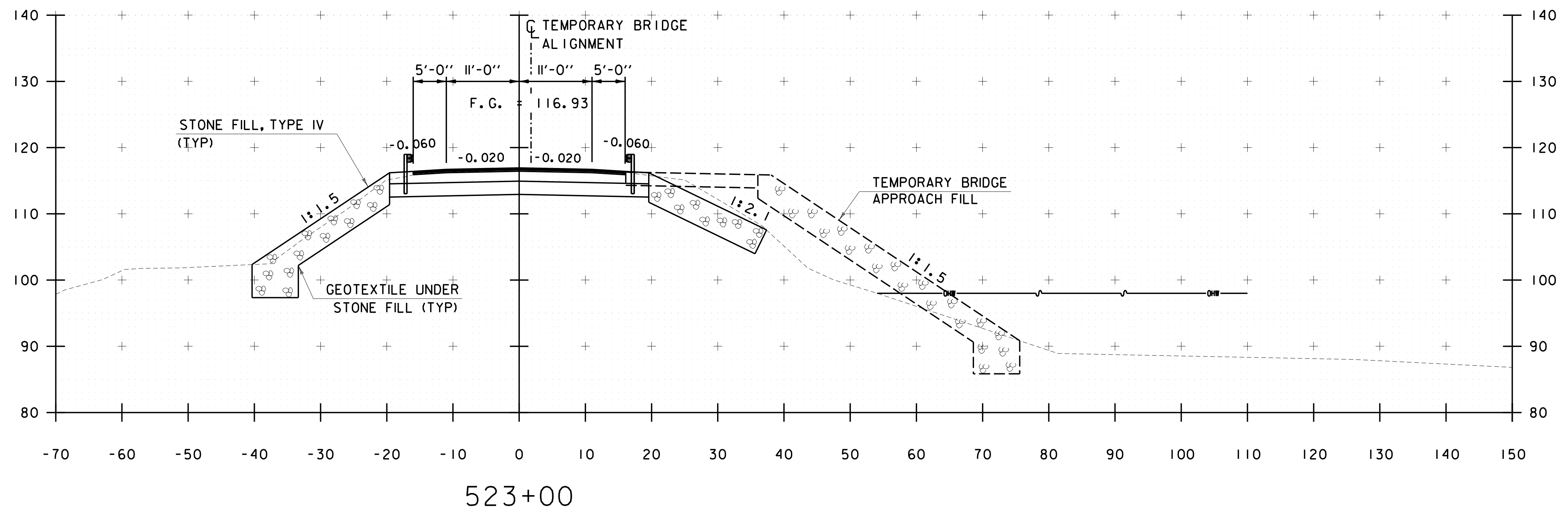
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USER = 3724

FILE NAME = N:\Projects\ANY\K3\28173\CADD\MSTN\2b\42\Consultants\z12b\42xc.dgn  
DATE/TIME = 11/14/2017  
USER = 3724



— OH — ORDINARY HIGH WATER (OHW) = 98.0

### LEGEND



STA. 523+00



PROJECT NAME: NORTH HERO GRAND ISLE BRIDGE	
PROJECT NUMBER: BHF 028-1(26)	
FILE NAME: z12b142xc.dgn	PLOT DATE: 11/14/2017
PROJECT LEADER: D. GOZALKOWSKI	DRAWN BY: R. BROWN
DESIGNED BY: J. PARRELLI	CHECKED BY: J. SHIELDS
CROSS SECTION SHEET II	SHEET 22 OF 24