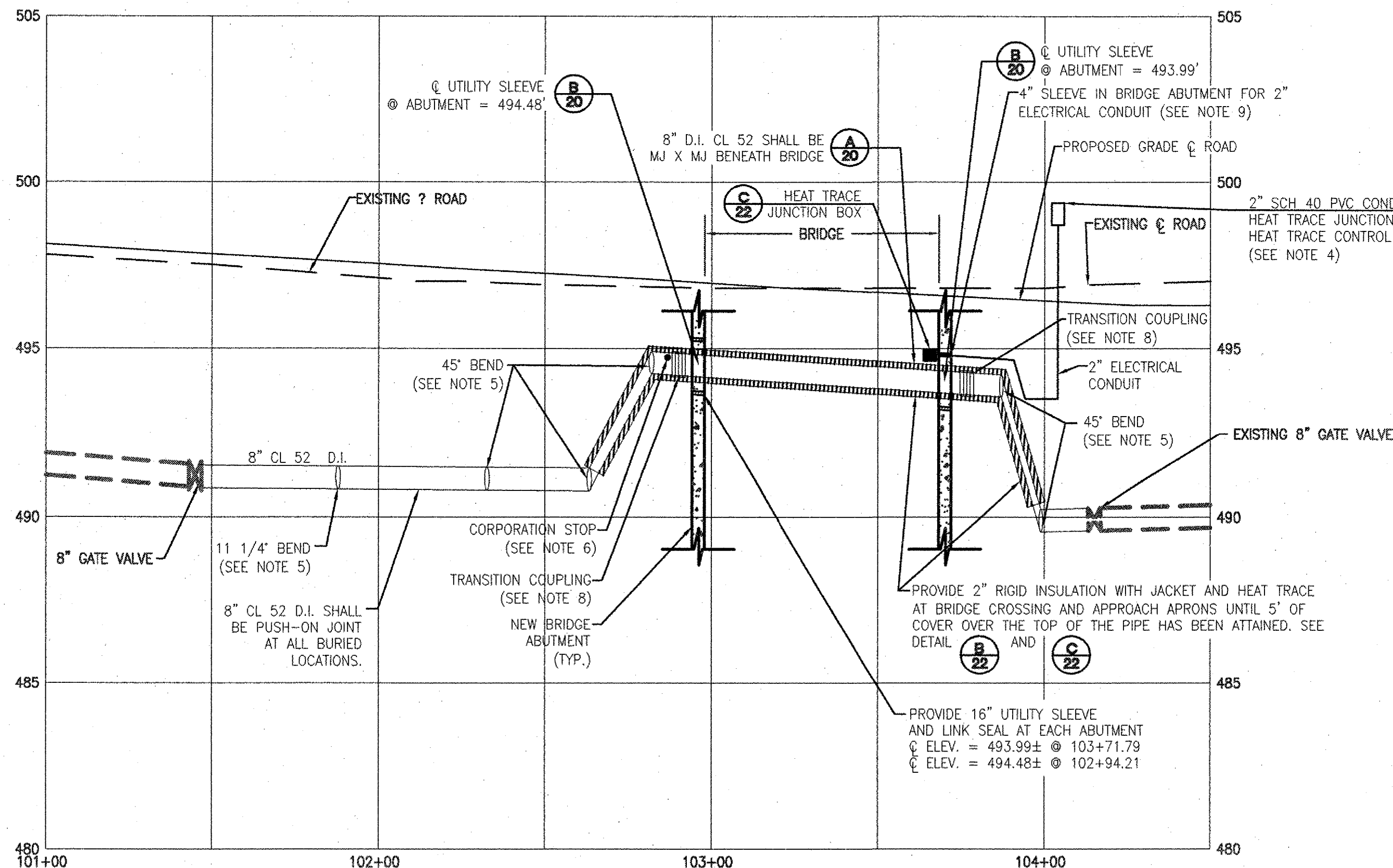


- WATERLINE PLAN NOTES:**
1. NEW WASTEWATER LINES NOT SHOWN FOR CLARITY. REFER TO DRAWING NO. 21 FOR NEW WASTEWATER WORK TO BE PERFORMED.

WATERLINE PLAN
SCALE: 1"=30'

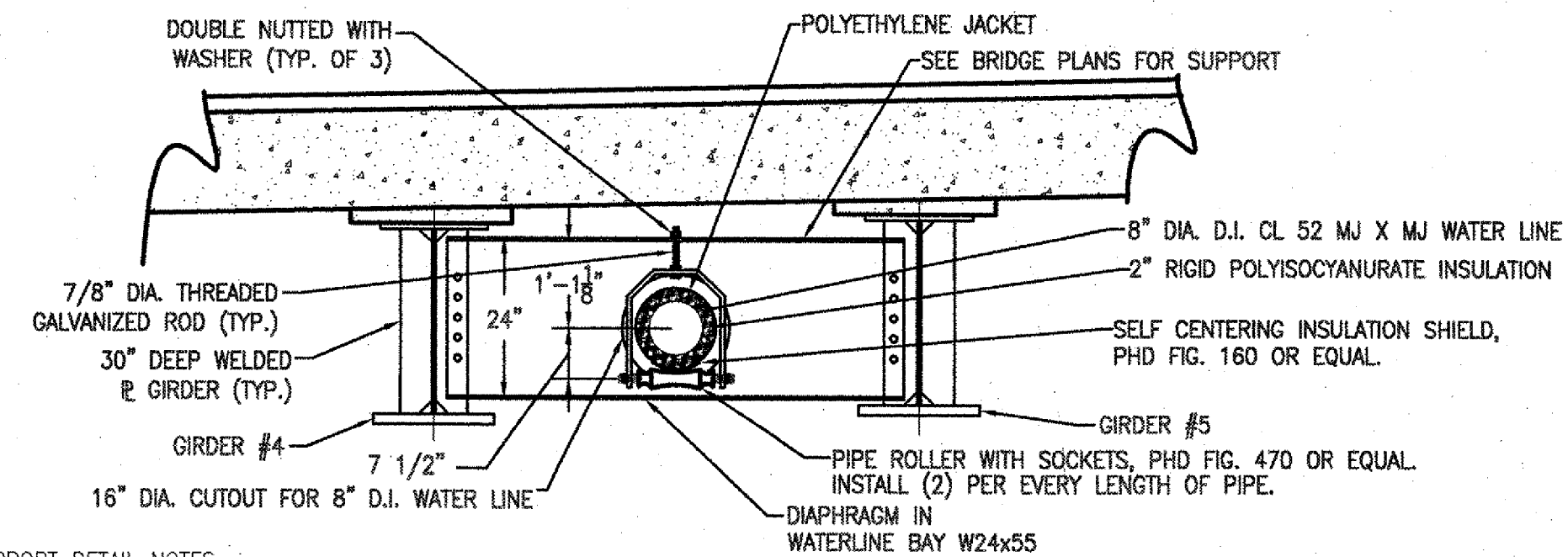


WATERLINE PROFILE
SCALE: HORZ. = 1"=30'
VERT. = 1"=3'

DATUM	NGVD 1929
VERTICAL	
HORIZONTAL	N/A

NEW WATERLINE CONSTRUCTION

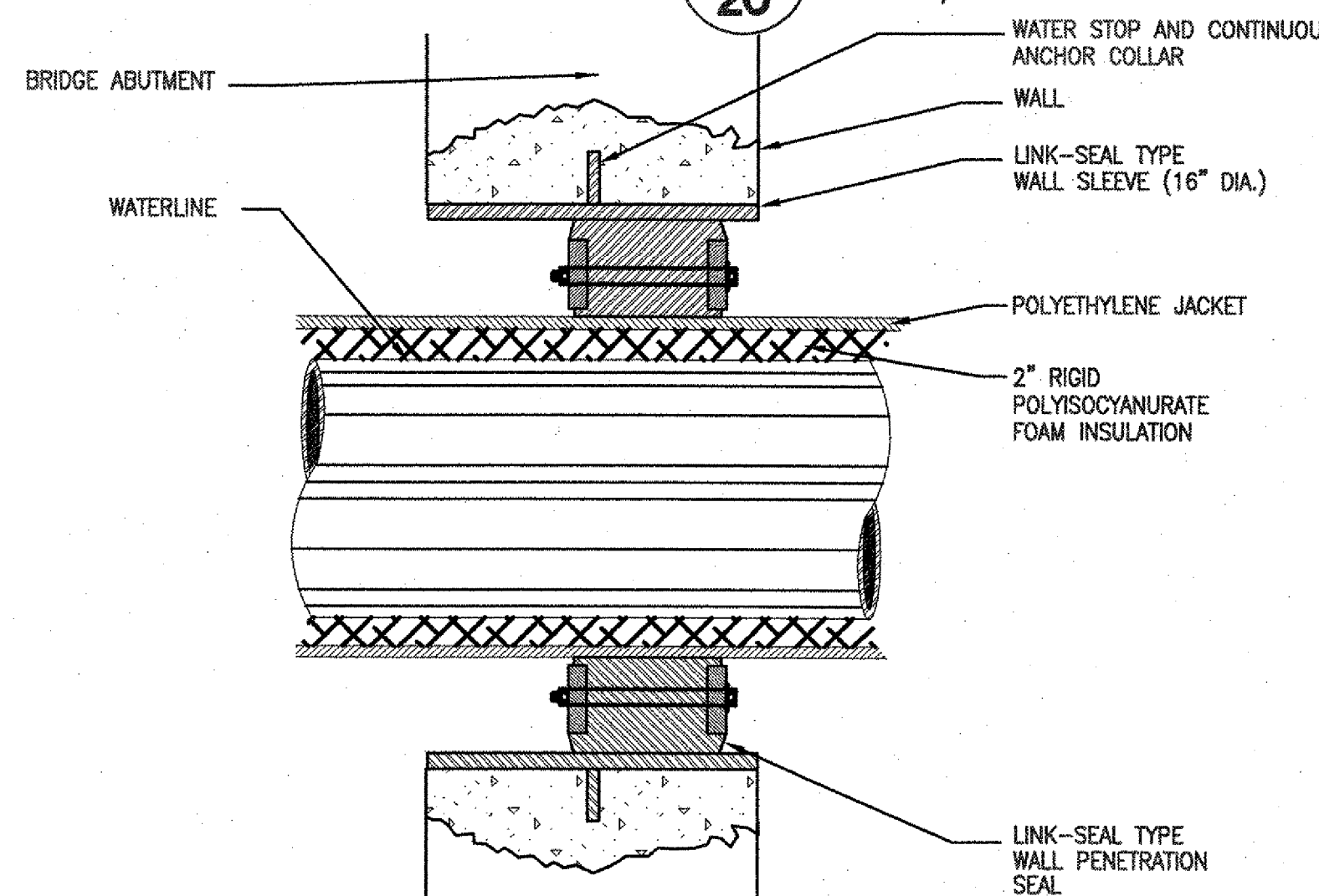
1. CONTRACTOR SHALL CONTACT DIG-SAFE AND THE JOHNSON WATER & LIGHT DEPARTMENT TO LOCATE UTILITIES AND TO COORDINATE ALL INTERCONNECTIONS OF WATERLINES PRIOR TO THE START OF CONSTRUCTION.
2. A TEMPORARY WATERLINE SHALL BE CONSTRUCTED BY THE VILLAGE OF JOHNSON PRIOR TO THE START OF THIS CONTRACT. IT IS ANTICIPATED THE TEMPORARY WATERLINE WILL BE INSTALLED APPROXIMATELY AS SHOWN ON REFERENCE SHEET R1. CONTRACTOR SHALL COORDINATE ANY RELOCATION. THE TEMPORARY WATERMAIN IS ALUMINUM WITH QUICK CONNECT FITTINGS. THE OWNER WILL HAVE ADDITIONAL FITTINGS/PIPE AVAILABLE FOR THE CONTRACTOR'S USE IN RELOCATING THE TEMPORARY WATERLINE AS NECESSARY TO ACCOMMODATE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL PROTECT AND RELOCATE WATERLINE AS NECESSARY TO KEEP THIS WATERLINE IN SERVICE DURING CONSTRUCTION, UNTIL THE NEW 8" D.I. WATERLINE IS PLACED INTO SERVICE. CONTRACTOR SHALL REMOVE TEMPORARY WATERLINE FOR SALVAGE BY THE VILLAGE OF JOHNSON. TEMPORARY WATERLINE SHALL BE DISMANTLED WITHOUT DAMAGE. MATERIAL SHALL BE DELIVERED TO THE TOWN GARAGE BY THE CONTRACTOR. PAYMENT FOR THIS WORK SHALL BE UNDER ITEM 629.42. THE EXISTING 4" C.I. WATERLINE SHALL BE ABANDONED IN-PLACE BY THE VILLAGE OF JOHNSON PRIOR TO THE BEGINNING OF CONSTRUCTION OF THE BRIDGE. THE CONTRACTOR MAY REMOVE SECTIONS OF THE ABANDONED 4" C.I. WATERLINE AS NECESSARY DURING CONSTRUCTION.
3. THE NEW 8" D.I. WATERLINE SHALL BE COMPLETELY CONSTRUCTED FROM 101+45 AND THEN PRESSURE TESTED IN ACCORDANCE WITH SPECIFICATION ITEM 629.11. AFTER SUCCESSFULLY PASSING THE PRESSURE TEST, THE PIPELINE SHALL BE DISINFECTED IN ACCORDANCE WITH SPECIFICATION 629.12. ONCE ALL REQUIREMENTS OF 629.12 HAVE BEEN MET, THE 8" D.I. WATERLINE MAY BE CONNECTED TO THE EXISTING 8" D.I. WATERLINE AS SHOWN ON THE DRAWINGS. ONCE THE 8" D.I. WATERLINE IS CONNECTED AT BOTH LOCATIONS, IT WILL BE CONSIDERED "PLACED INTO SERVICE". TESTING AND DISINFECTING OF THE NEW 8" D.I. WATERLINE AND CONNECTION TO THE EXISTING 8" D.I. WATERLINE SHALL BE CONSIDERED INCIDENTAL TO PAYMENT FOR THE NEW 8" D.I. WATERLINE (ITEM 629.24).
4. INSTALL A 2" SCH40 PVC CONDUIT FROM THE HEAT TRACE JUNCTION BOX ON THE WATERMAIN TO THE HEAT TRACE CONTROL PANEL AS SHOWN. INSTALL THE HEAT TRACE CABLE IN THE 2" SCH40 PVC CONDUIT AND ALONG THE WATERMAIN PER THE MANUFACTURER. NO SPlicing SHALL BE ALLOWED ON THE CABLE FROM THE JUNCTION BOX TO THE CONTROL PANEL AND FROM THE JUNCTION BOX TO THE WATERMAIN. CONTRACTOR SHALL COORDINATE REQUIRED LENGTHS OF CABLE WITH THE MANUFACTURER. ALL ELECTRICAL CONNECTIONS AND OTHER WIRING TO PROVIDE A FUNCTIONAL HEAT TRACE SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR. ALL MATERIAL AND LABOR COSTS TO COMPLETE THIS WORK SHALL BE INCLUDED UNDER PAY ITEM 625.10.
5. PROVIDE RESTRAINED JOINTS AND CONCRETE THRUST BLOCKS AT ALL BENDS IN THE WATER LINE. REFER TO DETAIL A/22 FOR THRUST BLOCK REQUIREMENTS. THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO THE NEW 8" D.I. WATERLINE (ITEM 629.24)
6. PROVIDE A 3/4" CORPORATION STOP AT THE TOP OF PIPE AT WESTERN BRIDGE ABUTMENT. PIPE TO THE EDGE OF THE BRIDGE DECK AND TERMINATE WITH A LOCKABLE BALL VALVE, FOR USE BY THE VILLAGE OF JOHNSON TO BLEED AIR OUT OF THE WATERLINE. ALL MATERIAL AND LABOR COSTS TO COMPLETE THIS WORK SHALL BE INCLUDED UNDER PAY ITEM 629.39.
7. RELOCATE THE DRY HYDRANT AWAY FROM THE BRIDGE ABUTMENT. COORDINATE EXACT LOCATION WITH THE JOHNSON FIRE DEPARTMENT. ALL MATERIAL AND LABOR COSTS TO COMPLETE THIS WORK SHALL BE INCLUDED UNDER PAY ITEM 629.29.
8. INSTALL THE TRANSITION COUPLING WITHIN 4'-0" OF THE BRIDGE ABUTMENT ON BOTH SIDES. INSTALL VERTICAL 45° BENDS AFTER THE TRANSITION COUPLING.
9. LOCATE THE 4" SLEEVE ALONG THE CENTERLINE OF THE WATERLINE 3" ABOVE THE TOP OF THE SLEEVE FOR THE WATERLINE PENETRATION THROUGH THE BRIDGE ABUTMENT.
10. INSTALL FIRE HYDRANT AT STATION 104+50. HYDRANT SHALL BE FURNISHED BY THE VILLAGE OF JOHNSON. THIS WORK CANNOT OCCUR UNTIL THE PERMANENT 8" D.I. WATERLINE IS PLACED INTO SERVICE. PAYMENT FOR THIS WORK SHALL BE UNDER ITEM 629.29.



SUPPORT DETAIL NOTES:

1. LABORED RODS (2 EACH), PIPE ROLLER WITH SOCKETS (1 EACH), AND DOUBLE NUTS WITH WASHER (4 EACH) SHALL COMPRISE ONE (1) PIPE SUPPORT ASSEMBLY. ALL MATERIAL AND LABOR TO FURNISH AND INSTALL EACH ASSEMBLY SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 629.60.
2. PROVIDE TWO (2) PIPE SUPPORT ASSEMBLIES FOR EACH PIPE LENGTH SUSPENDED UNDER THE BRIDGE SPAN.
3. 15" DIA. CUT-OUT FOR 8" D.I. WATERLINE SHALL BE CONSIDERED INCIDENTAL TO THE BRIDGE STRUCTURE AND SHALL NOT BE PAID UNDER A SEPARATE BID ITEM.
4. REFER TO SHEET 24 FOR ADDITIONAL DIMENSIONAL INFORMATION CONCERNING THE LAYOUT AND SUPPORT OF THE WATERLINE UNDER THE BRIDGE STRUCTURE.

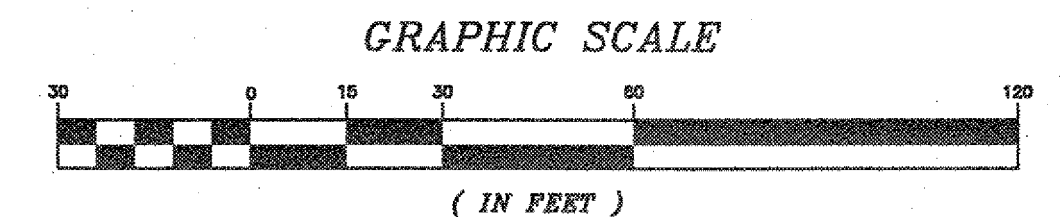
BRIDGE CROSSING SUPPORT DETAIL (TYP. OF 10)
SCALE: 1/2"=1'-0"



B 20 LINK-SEAL DETAIL-WATERLINE
SCALE: NONE

LINK-SEAL NOTES:

1. BUTT PIPE INSULATION (FOR WATERLINE) TIGHT TO LINK-SEAL.



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Essex Junction, VT 05495 (802) 879-1742 (Fax)

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of	JOHNSON	Bridge No.	37
Highway No.	VT ROUTE 15	Log Sta.	
		Surv. Sta.	
VT ROUTE 15 OVER THE GIOH RIVER			

8"Ø WATERLINE REPLACE. - STA. 101+48 TO 104+13

Designed By	JJD	Drawn By	JEB/JEN
Checked By	Date	Bridge Design Supervisor	
JJD	1-07	J. Byatt	Date 11/06

PROJECT	JOHNSON	PROJECT NO.	BRF 030-2(17)S
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