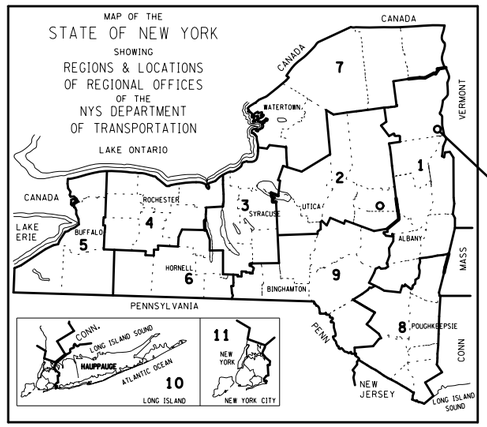
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN



PROJECT LOCATION

RICH IN HISTORY
TICONDEROGA
A RECREATIONAL PARADISE

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NYSDOT STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL".

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES.

VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
ESSEX COUNTY
NEW YORK

APRIL 15, 2021

45 SHEETS

CONTRACT NO. D036296

TOWN OF TICONDEROGA

CONTRACTOR'S NAME _____

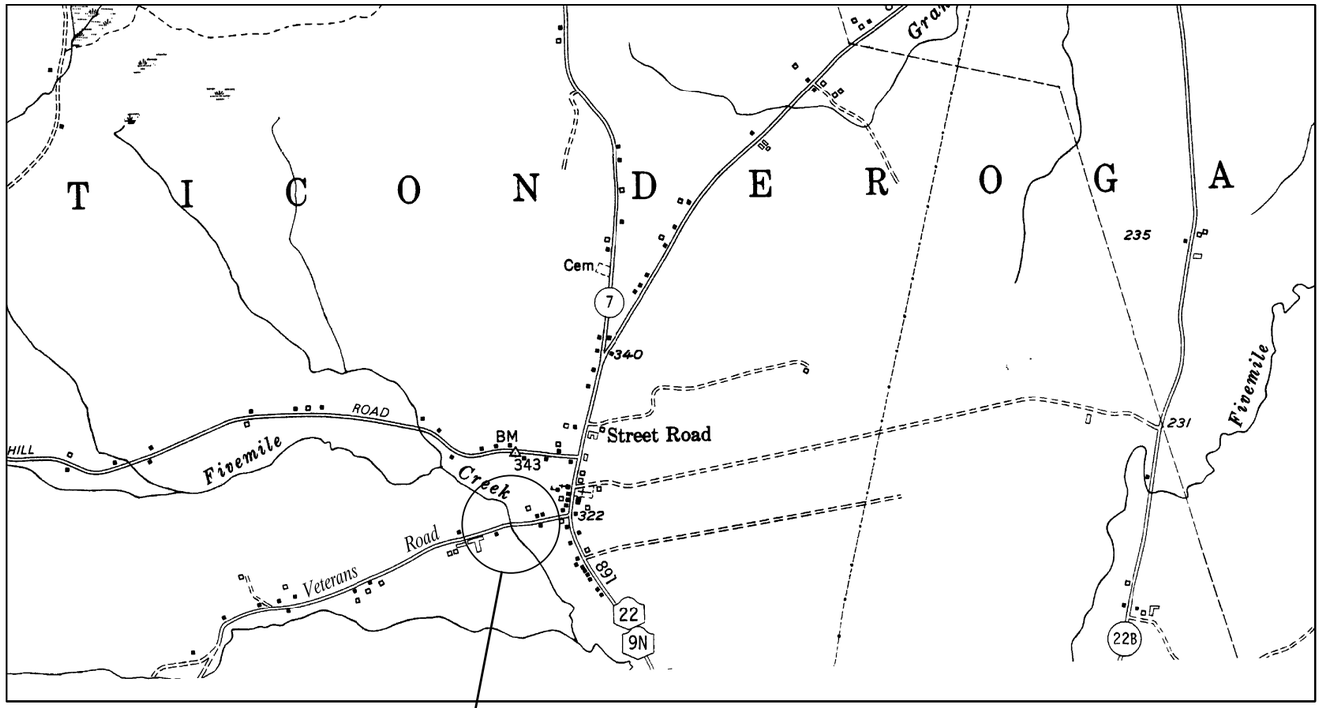
AWARD DATE _____

COMPLETION DATE _____

FINAL ACCEPTANCE DATE _____

ENGINEER IN CHARGE _____

FINAL COST TOTAL _____



PROJECT LOCATION

PROJECT LOCATION
NOT TO SCALE

GRID NORTH

PREPARED AND RECOMMENDED BY:

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
EXCELSIOR
No. 131
LICENSED PROFESSIONAL ENGINEER

SHERI KERN, P.E.
PROJECT MANAGER/STRUCTURAL ENGINEER

JOHN SIMKULET, P.E.
VICE PRESIDENT/DIRECTOR OF BRIDGE ENGINEERING

GPI
GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS
80 WOLF ROAD, SUITE 300
ALBANY, NY 12205

APPROVED BY

ROBERT LEVEILLE, ASSISTANT CIVIL ENGINNEER — DATE
ESSEX COUNTY DEPARTMENT OF PUBLIC WORKS

VETERAN'S ROAD CULVERT REPLACEMENT		
OVER FIVE MILE CREEK		
TOWN OF TICONDEROGA		
COUNTY: ESSEX		
FED. ROAD REG. NO.	STATE	SHEET NO.
1	N.Y.	1
CAPITAL PROJECT IDENTIFICATION NO. 1761.09		

INDEX ON SHEET NO. 2

ALIGNMENT

ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
℄	BASELINE
BRG	BEARING
℄	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
ML	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

TOPOGRAPHY (DRAINAGE)

ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
℄ STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

TOPOGRAPHY (MISCELLANEOUS)

ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
PE	PERMANENT EASEMENT
PED POLE	PEDESTRIAN POLE
ℙ	PROPERTY LINE
POR	PORCH
RR	RAILROAD
RTE	ROUTE
ROW	RIGHT OF WAY
RW	RETAINING WALL
SH	STATE HIGHWAY
SHLDR	SHOULDER
SPK	SPIKE
ST	STREET
STK	STAKE
STY	STORY
SW	SIDEWALK
TE	TEMPORARY EASEMENT
TO	TEMPORARY OCCUPANCY
U/G	UNDERGROUND
WW	WING WALL

UTILITIES

ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

SUBSURFACE EXPLORATION

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENTROMETER
DA	2¼ INCHES CASED DRILL HOLE
DM	DRILLING MUD
DN	4 INCHES CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	1 INCH SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
mi	MI	MILES
ft^2	SF	SQUARE FEET
YD^2	SY	SQUARE YARD
AC	AC	ACRES
YD^3	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

STANDARD SHEETS:

203-01, 607-04, 607-06, 608-01, 608-03, 609-01, 609-02, 609-04, 619-01, 619-02, 619-10, 619-11, 619-12, 619-50, 619-62, 625-01, 663-01

INDEX — 45 SHEETS

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

INDEX AND ABBREVIATIONS

CONTRACT NUMBER D036296

DRAWING NO. IND-1
SHEET NO. 2

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\76109_CPB_IND.dgn
DATE/TIME = 4/15/2021
USER = skern

ALIGNMENT

STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)
	AD_P	DETOUR
	AT_P	TRANSITION CONTROL

BRIDGE

STYLE	NAME	DESCRIPTION
	BR	RAIL
	BSHT	SHEET PILING

CONTROL

STYLE	NAME	DESCRIPTION
CL	CB	BASELINE
	CBPR	BASELINE, PROJECTION

DRAINAGE

STYLE	NAME	DESCRIPTION
ST	DCP	CULVERT PIPE
ST	DCP_P	CULVERT PIPE (DIR)
	DDG_P	DITCH, GRASS LINED
	DDP_P	DITCH, PAVED INVERT
	DDS_P	DITCH, STONE LINED
	DFL_P	FLOW LINE
	DSSD	SLOTTED DRAIN
UD	DUD_P	UNDERDRAIN

ENVIRONMENTAL

STYLE	NAME	DESCRIPTION
S	EBLHS	BALE, STRAW
	ECT	CURTAIN, TURBIDITY
	EDMC	DAM, COFFER TYPE
	EDMEC_P	DAM, EARTHEN, CHECK
	EDMPC_P	DAM, PREFAB, CHECK
	EDMSC_P	DAM, STONE, CHECK
	EFNS	FENCE, SILT
	EFNSV	FENCE, SILT & VEGETATION
	EFNV	FENCE, VEGETATION
AA	EWAA_P	WETLAND, ADJACENT AREA
FW	EWF	WETLAND, FEDERAL
FW SW	EWFS	WETLAND, FEDERAL AND STATE
SW	EWM	WETLAND, MITIGATION AREA
SW	EWS	WETLAND, STATE

LANDSCAPE

STYLE	NAME	DESCRIPTION
	LABL	AREA, BRUSH LINE
	LAHR	AREA, HEDGE ROW
	LAPB	AREA, PLANTING BED
	LAWA	AREA, WOODED AREA OUTLINE
	LAWE	AREA, WATERS EDGE
	LCUT_P	CUT LIMIT
	LFILL_P	FILL LIMIT
	LFNC	FENCE
	LTRC	TREE ROW, CONIFEROUS
	LTRD	TREE ROW, DECIDUOUS
	LWH	WALL, H PILE
	LWR	WALL, RETAINING
	LWS	WALL, STONE

ROW MAPPING

STYLE	NAME	DESCRIPTION
	MDL	DEED LINE
PE	MEE	EASEMENT, EXISTING
PE	MEP_P	EASEMENT, PERMANENT
APE	MEPA_P	EASEMENT, PERMANENT, APPROX.
TE	MET_P	EASEMENT, TEMPORARY
ATE	META_P	EASEMENT. TEMPORARY, APPROX.
FEE	MF_P	FEE ACQUISITION, W/ ACCESS
AFEE	MFA_P	FEE ACQUISITION, APPROXIMATE
	MFS_P	FEE ACQUISITION, SHAPE
FEE W/OA	MFWOA_P	FEE ACQUISITION, W/O ACCESS
	MHA	HISTORICAL, ACQUISITION
HB	MHB	HIGHWAY BOUNDARY
AHB	MHBA	HIGHWAY BOUNDARY, APPROX.
	MHBW	HWY BOUNDARY, FACE OF WALL
HB W/OA	MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS
	MJC	JURISDICTION, CITY
	MJCY	JURISDICTION, COUNTY
	MJHD	JURISDICTION, HISTORIC DISTRICT
	MJLL	JURIS., (GREAT, MILITARY) LOT LINE
	MJN	JURISDICTION, NATION
	MJPB	JURISDICTION, PUBLIC LANDS
	MJS	JURISDICTION, STATE
	MJT	JURISDICTION, TOWN
	MJV	JURISDICTION, VILLAGE
℄	MPL	PROPERTY LOT LINE
AP℄	MPLA	PROPERTY LOT LINE, APPROXIMATE
Z	MSL	SUB LOT LINE

ROADWAY

STYLE	NAME	DESCRIPTION
CZ	RCZ_P	CLEAR ZONE
	RG	GUIDE RAIL, MISCELLANEOUS
	RGB	GUIDE RAIL, BOX BEAM
	RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
	RGC	GUIDE RAIL, CABLE
	RGCB	GUIDE RAIL, CONCRETE BARRIER
	RGP_P	GUIDE POST
	RGW	GUIDE RAIL, W BEAM
	RGWM	GUIDE RAIL, W BEAM, MEDIAN
	RPB	PARKING BUMPER
	RRC	RAIL ROAD, CATENARY
3R	RRER	RAIL ROAD, 3RD RAIL
	RRPLS_P	RAIL, PHOTO, LARGE SCALE
	RRPSS	RAIL, PHOTO, SMALL SCALE
	RRS	RUMBLE STRIP
	RRSLS_P	RAIL, SURVEY, LARGE SCALE
	RRSSS	RAIL, SURVEY, SMALL SCALE

SIGNS

STYLE	NAME	DESCRIPTION
	SBLB	BILLBOARDS
	SM	MULTIPLE POST
	SSO	STRUCTURE, OVERHEAD
	SSOC	STRUCTURE, OVHD. CANTILEVER

STRIPING

STYLE	NAME	DESCRIPTION
	STB•	BROKEN LINE
	STDB•	DOUBLE BROKEN LINE
	STDL•	DOTTED LINE LONG
	STDS•	DOTTED LINE SHORT
	STFB•	FULL BARRIER LINE
	STH•	HATCH LINE
	STPB•	PARTIAL BARRIER LINE
	STRCT	ROUNDABOUT, CAT TRACKS
	STRYL	ROUNDABOUT, YIELD LINE
	STSB	STOP BAR
	STSE•	SOLID, EDGE
	STXL•	X WALK, LADDER LINE
		• = W (WHITE) OR Y (YELLOW)

TRAFFIC CONTROL

STYLE	NAME	DESCRIPTION
	TCSW	SIGNAL, SPAN WIRE

TRAFFIC WORK ZONE

STYLE	NAME	DESCRIPTION
	TWZBT_P	BARRIER, TEMPORARY
	TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	TWZCD_P	CHANNELIZING DEVICE
	TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING

UTILITIES

STYLE	NAME	DESCRIPTION
C	UC	CONDUIT, UNDERGROUND
]C[	UCH	CONDUIT, HANGING
OC	UCO	CONDUIT, OVERHEAD
E	UE	ELECTRIC LINE, UNDERGROUND
]E[	UEH	ELECTRIC LINE, HANGING
OE	UEO	ELECTRIC LINE, OVERHEAD
OET	UETO	ELECTRIC TRANSMISSION, OVERHEAD
	UESS	ELECTRIC, SUBSTATIONS
FO	UFO	FIBER OPTIC, UNDERGROUND
]FO[	UFOH	FIBER OPTIC, HANGING
OFO	UFOO	FIBER OPTIC, OVERHEAD
G	UG	GAS, UNDERGROUND
]G[	UGH	GAS, HANGING
OG	UGO	GAS, OVERHEAD
IC	UIC	INFORM CABLE, UNDERGROUND
]IC[	UICH	INFORM CABLE, HANGING
O	UO	OIL LINE, UNDERGROUND
]O[	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPGW	POLE, GUY WIRE
SA	USA	SANITARY SEWER, UNDERGROUND
]SA[	USAH	SANITARY SEWER, HANGING
SAF	USAF	SANITARY SEWER, FORCE MAIN, UGND
]SAF[	USAFH	SANITARY SEWER, FORCE MAIN, HANG
T	UT	TELEPHONE, UNDERGROUND
]T[	UTH	TELEPHONE, HANGING
OT	UTO	TELEPHONE, OVERHEAD
CTV	UTV	CABLE TV, UNDERGROUND
]CTV[	UTVH	CABLE TV, HANGING
OCTV	UTVO	CABLE TV, OVERHEAD
UU	UUU	UNKNOWN, UNDERGROUND
]UU[	UUH	UNKNOWN, HANGING
OUU	UUO	UNKNOWN, OVERHEAD
W	UW	WATER LINE, UNDERGROUND
]W[	UWH	WATER LINE, HANGING
OW	UWO	WATER LINE, OVERHEAD

NOTES:

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

LEGEND
(1 OF 2)

CONTRACT NUMBER
D036296

DRAWING NO. LEG-1
SHEET NO. 3

GPI GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
DESIGN S. KERN
JOB MANAGER D. THOMAS
CHECK B. WEAVER
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\1761.09_CPB_LEG-1.dgn
DATE/TIME = 4/15/2021
USER = skern

ALIGNMENT

CELL	NAME	DESCRIPTION
	ACC	CENTER OF CURVATURE
	ACOGO	COGO
	ACS	CURVE TO SPIRAL
	ADPI_P	DETOUR, POINT OF INTERSECT.
	ADPL_P	DETOUR, POINT ON LINE
	AEQN	EQUATION
A	AEQNAHD	EQUATION AHEAD
B	AEQNBK	EQUATION BACK
	AEVT	EVENT STATION
	APC	POINT OF CURVATURE
	APCC	POINT OF COMPOUND CURVATURE
	API	POINT OF INTERSECTION
	APOB	POINT OF BEGINNING
	APOC	POINT OF CURVATURE
	APOE	POINT OF END
	APOL	POINT ON LINE
	APOS	POINT ON SPIRAL
	APOT	POINT ON TANGENT
	APOVC	POINT ON VERTICAL CURVE
	APOVT	POINT ON VERTICAL TANGENT
	APORC	POINT ON REVERSE CURVE
	APT	POINT OF TANGENCY
	APVC	POINT OF VERTICAL CURVATURE
	APVCC	POINT OF VERT. CMPND CURVE
	APVI	POINT OF VERT. INTERSECTION
	APVRC	POINT OF VERT. REVERSE CURVE
	APVT	POINT OF VERTICAL TANGENCY
	ASC	SPIRAL TO CURVE
	ASPI	SPIRAL POINT OF INTERSECTION
	ASTS	SPIRAL TO SPIRAL
	AST	SPIRAL TO TANGENT
	ATS	TANGENT TO SPIRAL
	AVEVT	VERTICAL EVENT POINT
	AVHIGH	VERTICAL HIGH POINT
	AVLOW	VERTICAL LOW POINT

BRIDGE

	BSC	BRIDGE, SCUPPER

CONTROL

	CBP	BASELINE, POINT
	CBPOL	BASELINE, POINT ON LINE
	CBSP	BASELINE, SPUR POINT
	CBTP	BASELINE, TIE POINT
	CPBM	BENCHMARK
	CPH	POINT, HORIZ. PHOTOGRAMMETRY
	CPSM	POINT, SURVEY MARKER, PERM.
	CPSV	POINT, VERT., PHOTOGRAMMETRY

DRAINAGE

CELL	NAME	DESCRIPTION
	DINV	INVERT
	DS	STRUCTURE, RECTANGULAR
	DSI	STRUCTURE, INVERT
	DSM	STRUCTURE, MANHOLE
	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96
	DSR	STRUCTURE, ROUND
	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R
	DST"X"_P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U

ENVIRONMENTAL

CULV	EIOP_P	STR., INLET, OUTLET PROT.
GB	EIPGB_P	STR., INLET PROT., GRAVEL BAG
H/S	EIPHS_P	STR., INLET PROT., HAY/STRAW
PRFB	EIPP_P	STR., INLET PROT., PREFAB.
SF	EIPSF_P	STR., INLET PROT., SILT FENCE
	ERCB	RISER, CONCRETE BOX
	ETRS_P	TRAP, SEDIMENT
	EWFG	WETLAND FLAG

GEOTECHNICAL

	GDH	DRILL HOLE

LANDSCAPE

	LELS	ELEVATION, SPOT
	LFP	FLAG POLE
	LMB	MAILBOX
	LPB	PAPER BOX
	LPST	POST, SINGLE
	LRB	ROCK, BOULDER
	LSHC	SHRUB, CONIFEROUS
	LSHD	SHRUB, DECIDUOUS
	LTC	TREE, CONIFEROUS
	LTD	TREE, DECIDUOUS
	LTS	TREE, STUMP
	LTW_P	TREE, WELL OR WALL
	LUKP	UNKNOWN POINT

SEE LEG-1 FOR NOTES

ITS

CELL	NAME	DESCRIPTION
A	IANT_P	ANTENNAS
A	IASCTS	ACCOU. SPEED/COUNT SNSR.S
P	ICABPAD	CABINET & PAD
	ICCTV	CCTV SITE
CDPD	ICDPD	CDPD TRANSCEIVER
	ICELLT	CELL PHONE TOWER
	ICJB	CONDUIT JACK OR BORING
	ICNTLCAB	CONTROLLER CABINET
	ICPB	COMMUNICATION PULL BOX
	ICTD	CONDUIT TURNING DOWN
	ICTU	CONDUIT TURNING UP
C	ICVTRT	COMM. VEH. ROAD TRANSCEIVER
	IDEFAULT	DEFAULT
EZ	IEZR	E-ZPASS READER
EZ-T	IEZTR	TRANSMITTAL READER
XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET
	IFUSSPL	FUSION SPLICE
	IHARADV	HAR ADVISORY SIGN
	IHARST	HAR SITE
LC	ILC	LOAD CENTER
	IMECSPL	MECHANICAL SPLICE
PM	IMSCS	PORT. SPEED & COUNT SENSOR
M	IMSCTS	MICRO SPEED & COUNT SENSOR
M	IMT	MICROWAVE TRANSCEIVER
VMS	IOVHVMS	PERM. OVERHEAD VMS
PA	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR
	IPEDS	PEDESTRIAN SIGNAL HEAD
	IPSS	PAVEMENT SURFACE SENSOR
PVMS	IPVMS	PERM. VMS
RM	IRM	RAMP METER
RWIS	IRWIS	RDWY WEATHER INFO. SENSOR
	ISP	SOLAR PANEL
SS	ISST	SPREAD SPECT. TRANSCEIVER
TC	ITDB	TELEPHONE DEMARCATION BLK
TP	ITP	SUBSURFACE TEMP. PROBE
	IVTRT	VEHICLE TO RDWY TRANSCEIVER
WIM	IWIMD	WEIGHT IN MOTION DETECTOR
WVR	IWVR	WIRELESS VIDEO REPEATER
V	IWVRC	WIRELESS VIDEO RECEIVER
V	IWVTT	WIRELESS VIDEO TRANSMITTER

ROW MAPPING

CELL	NAME	DESCRIPTION
	MDL1P	DEED LINE, TYPE 1
	MDL2P	DEED LINE, TYPE 2
	MDL3P	DEED LINE, TYPE 3
	MDL4P	DEED LINE, TYPE 4
	MDL5P	DEED LINE, TYPE 5
	MEEP	EASEMENT, EXISTING
A	MEPAP_P	EASEMENT, PERM., APPROX.
	MEPP_P	EASEMENT, PERM., BACK LINE
	MEPSP_P	EASEMENT, PERM., SHAPE
A	MFAP_P	FEE ACQUISITION, APPROX.
	MFP_P	FEE ACQUISITION, BACK LINE
	MFSP_P	FEE ACQUISITION, SHAPE
	MHBAP	HIGHWAY BNDRY., APPROX.
	MHBCP	HISTORICAL, BLDG. CORNERS
	MHBP	HIGHWAY BNDRY, PT.
	MJCP	PT., JURIS. CITY
	MPBC	PT., BUILDING CORNER
	MPCC	PT., CROSS CUT
	MPDH	PT., DRILL HOLE
	MPF	PT., FENCE LOCATION
	MPIP	PT., IRON PIPE
	MPIR	PT., IRON ROD
	MPM	PT., MONUMENT
	MPMM	PT., MONUMENT, MISC.
	MPN	PT., NAIL
	MPRS	PT., RAILROAD SPIKE
	MPSP	PT., SPIKE
	MPST	PT., STAKE
	MPTW	PT., TREE W/ WIRE
	MPWL	PT., WALL LOCATION

ROW ACQUISITION

M1 P1 FEE	MFS_P_T	FEE ACQUISITION
M1 P1 PE	MEPS_P_T	EASEMENT, PERMANENT
M1 P1 TE	METS_P_T	EASEMENT, TEMPORARY
M1 P1 TO	METS_P_T	OCCUPANCY, TEMPORARY
M1 P1 FEE W/O A	MFS_P_T	FEE ACQUISITION W/O ACCESS

ROADWAY

	RES_P	ELEVATION, SPOT
	RGA	GUIDE RAIL, ANCHOR
	RGP	GUIDE POST, SINGLE

SIGNS

CELL	NAME	DESCRIPTION
	S	SINGLE POST
	S_P	SINGLE POST, PROPOSED
	SB_P	BACK TO BACK, PROPOSED
	SDEL	DELINEATORS
	SPM	PARKING METER
RFM	SRM	REFERENCE MARKERS
	SRSC3	SHLD, CTY, 123 DIG.
	SRSC4	SHLD, CTY, 4 DIG.
	SRSCT2	SHLD, CTY TOUR, 1-2 DIG.
	SRSCT4	SHLD, CTY TOUR, 3-4 DIG.
	SRSI	SHLD, INTERSTATE
	SRSN2	SHLD, NATIONAL, 2 DIG.
	SRSN3	SHLD, NATIONAL, 3 DIG.
	SRSS2	SHLD, STATE, 2 DIG.
	SRSS3	SHLD, STATE, 3 DIG.
	SRSS4	SHLD, STATE, 4 DIG.

TRAFFIC CONTROL

	TCBJ	BOX, JUNCTION
T	TCBP	BOX, PULL BOX
	TCBS	BOX, SPLICE
C	TCMC	MICROCOMPUTER CABINET
	TCPP	PED POLE
	TCSH	SIGNAL HEADS
	TCSP	SIGNAL POLE

TRAFFIC WORK ZONE

	TWZAP_P	ARROW PANEL
	TWZAPC_P	ARROW PANEL, CAUTION MODE
	TWZAPT_P	ARROW PANEL, TRAILER OR SUPPORT
	TWZBCD_P	BARRICADE (TYPE III)
	TWZCMS_P	CHANGEABLE MESSAGE SIGN (PVMS)
	TWZFLG_P	FLAGGER
	TWZFT_P	FLAG TREE
	TWZIA_P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)
	TWZLUM_P	LUMINAIRE (TEMPORARY)
	TWZSDT_P	SYMBOL, DIRECTION OF TRAFFIC
	TWZSDTD_P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR
	TWZSGN_P	SIGN (TEMPORARY)
	TWZSIG_P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)
	TWZWL_P	WARNING LIGHT
	TWZWV_P	WORK VEHICLE
	TWZWVA_P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR

UTILITIES

CELL	NAME	DESCRIPTION
E	UEB	ELECTRIC, BOX
E	UEM	ELECTRIC, METER
E	UEMH	ELECTRIC, MANHOLE
	UEPT	ELECTRIC, POLE, TRANS.
G	UGM	GAS, METER
G	UGMH	GAS, MANHOLE
	UGLM	GAS, LINE MARKER
FP	UGP	GAS/FUEL PUMP
	UGV	GAS, VALVE
	UGVT	GAS, VENT
	ULP	LIGHTING, POLE
	ULPM	LIGHTING, POLE, MEDIAN
	ULPP	LIGHTING, POLE, PED.
	UMFC	MISC. FILLER CAP
	UOLM	OIL, LINE MARKER
	UP	POLE, WITH UTILITY
	UPD	POLE, DEAD (NO UTILITY)
	UPL	POLE, WITH LIGHT
S	USMH	SANITARY SEWER MANHOLE
P	UTB	TELEPHONE, BOOTH
	UTLM	TELEPHONE, LINE MARKER
T	UTMH	TELEPHONE, MANHOLE
	UTVLM	CABLE TV, LINE MARKER
	UTVPB	CABLE TV, PULL BOX
	UUB	UNKNOWN, BOX
	UUJB	UNKNOWN, JUNCTION BOX
	UUMH	UNKNOWN, MANHOLE
	UUPB	UNKNOWN, PULL BOX
	UUVL	UNKNOWN, VALVE
	UUVT	UNKNOWN, VENT
W	UUW	UNKNOWN, WELL
	UWFH	WATER, FIRE HYDRANT
W	UWM	WATER, METER
W	UWMH	WATER, MANHOLE
	UWV	WATER, VALVE
W	UWW	WATER, WELL

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109.CPB.LEG-2.dgn
DATE/TIME = 4/15/2021
USER = skern

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

LEGEND
(2 OF 2)

CONTRACT NUMBER
D036296

DRAWING NO. LEG-2
SHEET NO. 4

GPI GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

GENERAL NOTES

1. DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF JANUARY 2021 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS: f'c = 3000 psi.)
2. LIVE LOAD: AASHTO HL-93 AND NYSDOT DESIGN PERMIT VEHICLE
3. CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING.
4. DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS FOR WHICH NO SCALE IS SHOWN ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.
5. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
6. THIS CULVERT SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
7. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS. UNLESS OTHERWISE INDICATED ON THE PLANS, IT IS THE EXPRESS INTENT OF THIS CONTRACT THAT THESE MATERIALS NOT BE DISTURBED IN ANY WAY. SHOULD THE CONTRACTOR BE FORCED TO DISTURB IN ANY WAY ANY SUCH MATERIALS, THE CONTRACTOR SHALL FIRST BE FAMILIAR WITH INDUSTRIAL CODE RULE 56 OF THE N.Y.S. DEPARTMENT OF LABOR. THE CONTRACTOR SHALL ALSO OBTAIN WRITTEN PERMISSION OF THE E.I.C. BEFORE PROCEEDING.
8. THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION. NEW SUPERSTRUCTURES SHALL MEET OR EXCEED 1.20 LRFR INVENTORY LOAD RATING FOR MOMENT, SHEAR, AND DEFLECTION PER NYSDOT BRIDGE MANUAL, AND SHALL MEET OR EXCEED 1.00 ASD/LFD INVENTORY LOAD RATING FOR MOMENT, SHEAR, AND DEFLECTION.
9. ALL DRAWINGS AND CALCULATIONS SUBMITTED BY THE CONTRACTOR FOR ENGINEER REVIEW SHALL BE IN PDF FORMAT AND SHALL BE EITHER 8.5" X 11" OR 11" X 17" WITH TEXT SIZE SHALL BE NO SMALLER THAN 1/16". SUBMISSIONS ILLEGIBLE WHEN PRINTED ON PAPER WILL BE REJECTED. FULL SIZE AND PAPER SUBMISSIONS SHALL NOT BE ACCEPTED OR REVIEWED. ALL DRAWINGS AND CALCULATIONS SHALL NOTE THE DESIGNER AND CHECKER. THE DESIGNER SHALL NOT CHECK THEIR OWN WORK. 11" X 17" DRAWINGS SHALL HAVE A BLANK SPACE THAT IS EITHER 2.5" X 5.5" OR 3.5" X 3.5" FOR PLACEMENT OF THE REVIEWER'S STAMP. 8.5" X 11" DRAWINGS SHALL HAVE AN APPROVAL COVER SHEET IF SPACE FOR THE STAMP DOES NOT FIT ON THE ACTUAL DRAWING.
10. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

FOUNDATION NOTES

1. HIGHWAY EMBANKMENT MATERIAL (FROM HIGHWAY ESTIMATE OR FROM STRUCTURE EXCAVATION BACKFILL) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
2. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURE FILL.
3. ALL PLACEMENTS OF SELECT STRUCTURAL FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.

COFFERDAM AND HYDRAULIC NOTES

1. SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE TOWN AND COUNTY.
2. WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
3. THE COFFERDAM(S) ARE TO BE CONTRACTOR DESIGNED. A COFFERDAM PLAN SHALL BE SUBMITTED TO THE ENGINEER FIFTEEN (15) DAYS PRIOR TO INSTALLATION.
4. DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS DETERMINED BY THE E.I.C. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.
5. ORDINARY HIGH WATER IS ESTIMATED TO BE 304.40 FEET. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.

SUPERSTRUCTURE NOTES

1. THE ASSUMED UNFACTORED SPAN UNIT REACTIONS ARE SHOWN ON THE THREE-SIDED STRUCTURE FRAMING PLAN. IF THE REACTIONS OF THE CONTRACTOR'S PROPOSED STRUCTURE EXCEED THOSE VALUES, THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A NYS LICENSED PROFESSIONAL ENGINEER TO VERIFY OR REDESIGN THE SUBSTRUCTURES SHOWN IN THESE CONTRACT DRAWINGS. THE CALCULATIONS SHALL BE PREPARED, STAMPED AND SIGNED BY SAID ENGINEER AND SUBMITTED TO THE TOWN AND COUNTY FOR REVIEW AND APPROVAL PRIOR TO BEGINNING SUBSTRUCTURE CONSTRUCTION. ANY ADDITIONAL COSTS ASSOCIATED WITH REDESIGNING OR VERIFYING SUBSTRUCTURE DETAILS SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE PRECASTER SHALL ENSURE THAT THE OWNER'S QUALITY ASSURANCE REPRESENTATIVE IS ON SITE PRIOR TO AND DURING ALL CONCRETE CASTING OPERATIONS. THE PRECASTER ASSUMES RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE AT LEAST 3 BUSINESS DAYS PRIOR TO SUCH CASTING OPERATIONS. ANY CONCRETE ELEMENT THAT IS CAST WITHOUT THE OWNER'S REPRESENTATIVE PRESENT SHALL BE REJECTED PRIOR TO SHIPMENT TO THE SITE AT NO COST TO THE TOWN AND COUNTY.
3. THE PRECASTER SHALL SUBMIT A FABRICATION SCHEDULE AND ANY ANTICIPATED PRECAST REPAIR PROCEDURES IN THEIR SHOP DRAWING SUBMITTAL. ALL REPAIRS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SUBMITTAL. ANY CONCRETE ELEMENT THAT IS REPAIRED USING NON-APPROVED PROCEDURES SHALL BE REJECTED PRIOR TO SHIPMENT TO THE SITE AT NO COST TO THE TOWN AND COUNTY.
4. THE CONTRACTOR SHALL ENSURE COFFERDAMS AND ANY REQUIRED ROCK BACKFILL WILL ALLOW FOR RETENTION OF ANY REQUIRED TENSIONING RODS ON THE THREE SIDED SPAN UNITS UNTIL ALL UNITS ARE PLACED, GROUTED AND BACKFILLED.
5. ALL PRECASTING PRODUCED IN ACCORDANCE WITH MATERIALS SPECIFICATION 704-03 GROUP 1 OR GROUP 3 SHALL FOLLOW THE PROVISIONS IN THE NYSDOT PRECAST CONCRETE CONSTRUCTION MANUAL IN EFFECT ON THE CONTRACT LETTING DATE.
6. THREADED INSERT AND EMBEDMENT LENGTH DETAILS AND/OR KEYWAYS FOR CONNECTING WINGWALLS TO THE THREE-SIDED STRUCTURE SHALL BE PROVIDED BY THE CONTRACTOR WITH THE SHOP DRAWINGS. INSERTS SHALL BE EPOXY-COATED.
7. ALL REINFORCING FOR THE REINFORCED CONCRETE SPAN UNITS SHALL BE UNCOATED. THE REINFORCEMENT SHALL MEET ALL THE REQUIREMENTS OF ITEM 556.0201. THE COST OF REINFORCING SHALL BE INCLUDED UNDER THE PRECAST ITEMS.
8. PRECAST DETAILS SHOWN IN THESE CONTRACT DRAWINGS ARE INTENDED TO BE NON-PROPRIETARY IN NATURE.
9. THE LOAD RATING TABLE FOUND ON THE THREE-SIDED STRUCTURE FRAMING PLAN SHALL BE FILLED IN BY THE E.I.C. FROM INFORMATION PROVIDED BY THE CONTRACTOR. THE LOAD RATINGS SHALL BE ON THE PRODUCTION NOTE SHEET OF THE SHOP DRAWINGS. THE CONTRACTOR SHALL INCLUDE ALL LOAD RATING COMPUTATIONS IN THE DESIGN CALCULATION SUBMITTAL.
10. PRECAST UNITS SHALL BE DESIGNED ASSUMING UNDRAINED CONDITIONS.
11. PER THE REQUIREMENTS OF §107-05, AN ERECTION PLAN FOR THE INSTALLATION OF THE PRECAST CONCRETE SPAN UNITS, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO INSTALLATION.
12. ALL STEEL BRIDGE RAILING AND/OR CONCRETE BARRIER IN THIS CONTRACT IS DESIGNED TO PROVIDE A TL-4 SERVICE LEVEL FOR THE PURPOSES OF RAILING AND/OR BARRIER ATTACHMENT DESIGN TO DECK SLABS AND/OR WALLS AS SHOWN IN THE PLANS. DECKS AND/OR WALLS WITH ATTACHMENTS TO RAILING AND/OR BARRIER SHALL BE ADEQUATELY REINFORCED TO PROVIDE TRANSFER OF VEHICLE IMPACT PER NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS CHAPTER 13 OR THE NYSDOT BRIDGE MANUAL CHAPTER 6.
13. THE PRECASTER SHALL PROVIDE PERMANENT PHYSICAL ATTACHMENT ON THE FILL SIDE OF PRECAST WALLS BETWEEN ALL PRECAST SECTIONS OF A CONTINUOUS WINGWALL OR CONTINUOUS CULVERT BARREL. THIS CAN BE ACHIEVED BY PLATES OR THREADED RODS AND ANGLES BOLTED BY THE CONTRACTOR TO INSERTS CAST BY THE PRECASTER OR BY OTHER MEANS SHOWN ON THE SHOP DRAWINGS TO BE INSTALLED BY THE CONTRACTOR. THE USE OF TEMPORARY MEANS TO DRAW JOINTS TOGETHER WILL ONLY BE PERMITTED IF THE JOINTS HAVE EMBEDDED REINFORCEMENT ACROSS THE JOINT AND HAVE BEEN FULLY GROUTED OR CAST-IN-PLACE CONCRETE HAS BEEN INSTALLED AND CURED PRIOR TO REMOVAL OF THE PHYSICAL ATTACHMENT.

REMOVAL NOTES

1. EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19.
2. EXISTING SUPERSTRUCTURE SHALL BE REMOVED UNDER ITEM 202.120001.
3. ACCORDING TO THE REQUIREMENTS OF §202-3.01 GENERAL AND SAFETY REQUIREMENTS, A REMOVAL PLAN, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
4. RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

RECONSTRUCTION NOTES

1. DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THIS TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
2. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE TOWN AND COUNTY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE TOWN AND COUNTY THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
3. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THOSE ITEMS.
4. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE CULVERT EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK WILL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED.
5. ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE CULVERT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE TOWN AND COUNTY.
6. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.

STREAM PROTECTION NOTE

1. DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT, OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACOTR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\17609_CPB_GNN-1.dgn
DATE/TIME = 4/15/2021
USER = skern

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

STATE OF NEW YORK
GREENMAN PEDERSEN INC
LICENSED PROFESSIONAL ENGINEER
No. 131

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

GENERAL NOTES
(1 OF 2)

CONTRACT NUMBER
D036296

DRAWING NO. GNN-1
SHEET NO. 5

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

HIGHWAY GENERAL NOTES

1. CURRENT NATIONAL "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) WITH NEW YORK STATE SUPPLEMENT SHALL BE IN EFFECT FOR THIS PROJECT

2. ADDITIONAL NOTES MAY BE FOUND ON SUBSEQUENT DRAWINGS. SUCH NOTES, WHILE PERTAINING TO THE SPECIFIC DRAWING THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

3. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS WITH THOSE SHOWN ON THE PLANS. THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS, AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS AS APPROVED BY THE ENGINEER. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL.

4. THERE SHALL BE NO CLAIM AGAINST THE TOWN AND COUNTY BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.

5. AT ALL TIMES, THE CONTRACTOR SHALL TAKE MEASURES TO PROVIDE POSITIVE DRAINAGE OF SURFACE RUNOFF FROM THE TRAVEL LANES AND CONTROL OF THE RUNOFF TO PREVENT EROSION, POLLUTION, SEDIMENTATION OR OTHER DISCHARGES WHICH WOULD AFFECT PROPERTIES ADJACENT TO THE WORK SITE. ALL MEASURES TAKEN TO PROVIDE POSITIVE DRAINAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

6. THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR AS ORDERED BY THE ENGINEER AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS.

7. NO PAYMENT SHALL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS, IN THE SPECIFICATIONS, OR UNDER THE HEADING GENERAL NOTES UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS IN THE CONTRACT.

8. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING OR OTHER DEVICES THAT MAY BE REQUIRED OR THAT MAY BE DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF ADJACENT STRUCTURES, ROADWAYS OR THE VARIOUS ITEMS IN THE CONTRACT. NO SEPARATE PAYMENT SHALL BE MADE.

9. PAVED AREAS DISTURBED BY THE CONTRACTOR WHICH ARE NOT PART OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT, SHALL BE RESTORED TO AN ACCEPTABLE CONDITION AS SPECIFIED BY AND SATISFACTORY TO THE ENGINEER. NO PAYMENT WILL BE MADE FOR RESTORING AREAS NOT PART OF THIS CONTRACT.

10. PROVISIONS TO DE-WATER EXCAVATIONS, DUE TO CONSTRUCTION OPERATIONS ALONG THE PROJECT MAY BE REQUIRED. THERE SHALL BE NO DIRECT PAYMENT FOR ANY DE-WATERING SYSTEMS. COST SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

11. THE CONTRACTOR SHALL KEEP ALL DRAINAGE FACILITIES, WITHIN THE CONTRACT LIMITS, CLEAN AND FULLY OPERATIONAL AT ALL TIMES (A.O.B.E.). THIS WORK SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

12. THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT AS REQUIRED AND IN ACCORDANCE WITH SECTION 625 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01-SURVEY OPERATIONS.

13. THE CONTRACTOR IS TO VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIAR WITH THE PRESENT CONDITIONS AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS WHICH ARE REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

14. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.

RIGHT-OF-WAY NOTES

1. FOR THIS PROJECT THE PUBLIC RIGHT-OF-WAY, AS REFERENCED IN THE SUBSEQUENT RIGHT-OF-WAY NOTES, SHALL ONLY INCLUDE THE PUBLIC RIGHT-OF-WAY.

2. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW) IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL WORK IS PERFORMED WITHIN THE ROW, INCLUDING BUT NOT LIMITED TO VEHICLE ACCESS; STORAGE OF EQUIPMENT, MATERIALS DEBRIS AND WASTE; LANDSCAPING; VEGETATION REMOVAL AND MANAGEMENT; GRADING, SEEDING AND THE INSTALLATION OF TURF; AND THE INSTALLATION OF ANY FENCES OR PROTECTIVE BARRIER.

3. IF THE CONTRACTOR IS UNABLE TO IDENTIFY THE LIMITS OF THE RIGHTS-OF-WAY WHEN THE CONTRACT CALLS FOR WORK IN THOSE VICINITIES, THE CONTRACTOR MUST CONTACT THE PROJECT ENGINEER FOR DEFINITIVE BOUNDARY DETERMINATIONS BEFORE ANY WORK MAY BE INITIATED AT THOSE LOCATIONS (STANDARD SPECIFICATION SECTIONS 105-10 AND 625).

4. IN ACCORDANCE WITH SECTION 105-15 OF THE STANDARD SPECIFICATIONS, RELEASES FOR ANY NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING RIGHTS-OF-WAY, INCLUDING PLANTINGS, LANDSCAPING OR DRIVEWAY ENHANCEMENT, WILL BE PROVIDED BY THE PROJECT ENGINEER AND IN NO INSTANCE ARE TO BE SECURED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES, LANDS OR BUILDINGS OUTSIDE OF THE RIGHTS-OF-WAY FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER (STANDARD SPECIFICATIONS SECTION 105-15).

5. THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACED AT THE CONTRACTOR'S EXPENSE (STANDARD SPECIFICATIONS SECTION 107-08).

UTILITY NOTES

1. AN UNDERGROUND WATER LINE OWNED BY THE TOWN IS LOCATED IN THE EXISTING BRIDGE DECK. THE CONTRACTOR WILL COORDINATE WITH THE TOWN AND THEIR REPRESENTATIVES TO MANTAIN SERVICE DURING CONSTRUCTION. A TEMPORARY LINE WILL BE INSTALLED PRIOR TO THE DEMOLITION OF THE CULVERT. A NEW LINE WILL BE INSTALLED BY THE CONTRACTOR AS SHOWN ON THESE PLANS.

2. OVERHEAD ELECTRICAL LINES OWNED BY NATIONAL GRID WILL BE RELOCATED PRIOR TO CONTRACT. OVERHEAD COMMUNICATION LINES OWNED BY VERIZON WILL BE RELOCATED PRIOR TO CONTRACT. EXISTING AND RELOCATED LOCATIONS ARE SHOWN ON THESE PLANS.

3. EXACT LOCATIONS OF UTILITES, PUBLIC AND/OR PRIVATE, SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. PRIOR TO ANY EXCAVATION, THE CONTRACTOR IS TO CALL DIG SAFELY N.Y. TO HAVE UNDERGROUND UTILITIES LOCATED.

4. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE, CAUSING THE INTERRUPTION IN SAID SERVICE, THE CONTRACTOR SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE WORK UNTIL SERVICE IS RESTORED. ALL COSTS TO REPAIR OR REPLACE DAMAGED UTILITES SHALL BE AT THE EXPENSE OF THE CONTRACTOR. IF THE CONTRACTOR DOES NOT WAKE IMMEDIATE NECESSARY REPAIRS, THE RESPECTIVE OWNING COMPANIES OR MUNICIPAL FORCES MAY DO THE WORK, AND THE COST THEREOF CHARGED TO THE CONTRACTOR.

5. THE CONTRACTOR SHALL PROTECT ALL UNDERGROUND UTILITES TO REMAIN IN PLACE FROM DAMAGE DURING THE CONSTRUCTION. METHODS OF PROTECTION MAY INCLUDE STEEL PLATES OVER THE UTILITY SO THAT WHEEL LOADING FROM CONSTRUCTION VEHICLES DO NOT DAMAGE THE UTILITY. THE COST OF PROVIDING PROTECTION OF UNDERGROUND UTILITIES SHALL BE INCLUDED UNDER VARIOUS ITEMS IN THE CONTRACT.

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109_CPB_GNN-2.dgn
DATE/TIME = 4/15/2021
USER = skern

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:
STATE OF NEW YORK GREENMAN PEDERSEN INC No. 131 LICENSED PROFESSIONAL ENGINEER	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED GENERAL NOTES (2 OF 2)	CONTRACT NUMBER D036296 DRAWING NO. GNN-2 SHEET NO. 6

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS
TICONDEROGA TOWN OF TICONDEROGA

WORK ZONE TRAFFIC CONTROL GENERAL NOTES

1. THE FOLLOWING NOTES ARE INTENDED TO SUPPLEMENT AND CLARIFY THE REQUIREMENTS SET FORTH IN SECTION 619 OF THE NYS STANDARD SPECIFICATIONS AND SECTION 619 OF THE NYS STANDARD SHEETS.
2. ALL WORK ZONE TRAFFIC CONTROL ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NYSDOT STANDARD SPECIFICATIONS, THE NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NYS SUPPLEMENT.
3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH ALL PROVISIONS OF ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL, OR AS AMENDED ON THESE PLANS, FOR THE DURATION OF THE PROJECT.
4. THE CONTRACTOR MAY SUBMIT REVISIONS TO THESE PLANS, IN WRITING, TO THE ENGINEER FOR APPROVAL, HOWEVER ANY COSTS RESULTING FROM THESE CHANGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL VEHICLES AND EQUIPMENT THAT SHALL BE MOVING IN AND OUT OF TRAFFIC AT WORK AREAS SHALL BE EQUIPPED WITH AN APPROVED AMBER ROTATING SAFETY LIGHT. THIS LIGHT SHALL BE MOUNTED SO AS TO BE EASILY SEEN BY APPROACHING TRAFFIC.
6. VEHICLES BELONGING TO THE CONTRACTOR, OR THE CONTRACTOR'S EMPLOYEES, SHALL NOT BE PARKED ON THE PAVEMENT OR SHOULDERS, OR WITHIN 30 FEET OF THE EDGE OF PAVEMENT ALONG OR ADJACENT TO OPEN TRAVEL LANES.
7. THE CONTRACTOR SHALL NOT PARK EQUIPMENT, NOR STORE MATERIAL, OVERNIGHT WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD TO TRAFFIC.
8. DRIVING AGAINST TRAFFIC AT ANY TIME, REGARDLESS OF WHETHER OR NOT THE AREA HAS BEEN CLOSED TO TRAFFIC, SHALL NOT BE PERMITTED, EXCEPT FOR TRAFFIC CONE PICK-UP OR AS SPECIFICALLY PERMITTED BY THE ENGINEER.
9. ESCORT VEHICLES EQUIPPED WITH AN AMBER LIGHT OR AN OPERATING ARROW PANEL WILL BE REQUIRED WHEN TRANSPORTING SLOW MOVING CONSTRUCTION EQUIPMENT ALONG ANY PORTION OF THE ROADWAY OPEN TO TRAFFIC.
10. WHEN REOPENING DRIVING LANES TO TRAFFIC, THE CONTRACTOR SHALL START BY MOVING THE DEVICES AT THE FAR END OF THE LANE CLOSURE AND WORKING TOWARDS THE SIGNS AT THE BEGINNING OF THE LANE CLOSURE. THE SIGNS ARE NOT TO BE TAKEN DOWN UNTIL ALL TRAFFIC CONTROL DEVICES HAVE BEEN REMOVED.
11. SEE TABLE 619-3 IN THE NYSDOT STANDARD SPECIFICATIONS FOR REQUIRED TREATMENT OF PAVEMENT EDGE DROP-OFFS AND DELINEATION.
12. EXCAVATIONS THAT PRODUCE DROP-OFFS ON BOTH SIDES OF THE TRAVEL WAYS AT THE SAME TIME SHALL NOT BE PERMITTED. SHOULDER AREAS SHALL BE PREPARED TO RECEIVE THE SHOULDER PAVEMENT MATERIAL IMMEDIATELY AHEAD OF SHOULDER PAVING OPERATIONS TO MINIMIZE THE TIME A DROP-OFF CONDITION EXISTS. "NO SHOULDER" (NYW4-13) SIGNS SHALL BE ERECTED A MINIMUM OF 500 FEET APART THROUGHOUT THE PROJECT WHEREVER A DROP-OFF EXISTS. LOW SHOULDER SIGNS (W8-9) MAY ALSO BE REQUIRED. IN NO CASE SHALL AN EDGE DROP-OFF EXCEED 3 INCHES.
13. COSTS FOR ALL TEMPORARY SIGNS FOR WORK ZONE TRAFFIC CONTROL SHALL BE INCLUDED UNDER ITEM 619.01.
14. THE MOUNTING OF ALL TEMPORARY CONSTRUCTION SIGNS SHALL BE PER FIGURE 6F-1 CONVENTIONAL ROAD IN THE MUTCD.
15. THE COST OF PROVIDING AND MAINTAINING SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES, TO THE SATISFACTION OF THE ENGINEER, SHALL BE BORNE BY THE CONTRACTOR, INCLUDING PROVIDING TEMPORARY ASPHALT PAVEMENT TO MAINTAIN THIS ACCESS.
16. IF THE ENGINEER NOTIFIES THE CONTRACTOR OR HIS SUPERINTENDENT OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS RESUMED.

WORK ZONE TRAFFIC CONTROL GENERAL NOTES CONT.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL SIGNS, CONES, FLASHERS, BARRIERS, ETC. ARE IN PLACE AND IN GOOD CONDITION. THE SOLE JUDGE OF THE EFFECTIVENESS OF THE CONTRACTOR'S EFFORTS TOWARDS THE PROTECTION OF TRAFFIC AND PERSONNEL SHALL BE THE ENGINEER.
18. FLAGGERS SHALL BE LOCATED AT ALL ACTIVE WORK AREAS AND AT OTHER LOCATIONS WITHIN A WORK AREA WHERE RESTRICTED SIGHT DISTANCE IMPEDES THE FLOW OF TRAFFIC OR A.O.B.E.
19. EXISTING TRAFFIC SIGNS SHALL BE COVERED AND UNCOVERED AS NECESSARY DURING CONSTRUCTION. COST TO BE INCLUDED UNDER ITEM 619.01.
20. IF IN THE ENGINEER'S JUDGMENT, FLAGS ON SIGNS ARE NECESSARY DUE TO LIMITED SIGHT DISTANCE. THEY SHALL BE PROVIDED BY THE CONTRACTOR. COST SHALL BE INCLUDED IN ITEM 619.01.
21. AT NO TIME DURING THE CONSTRUCTION OF THIS PROJECT SHALL THE CONTRACTOR ALLOW TRAFFIC TO DRIVE ON A GRAVEL SURFACE FOR MORE THEN FIVE (5) CONSECUTIVE DAYS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
22. THERE SHALL BE NO NIGHT WORK BETWEEN THE HOURS OF 7:00 PM AND 7:00 AM EXCEPT AS REQUIRED FOR UTILITY SERVICE INTERRUPTIONS AND AS APPROVED BY THE ENGINEER.
23. DELINEATION WITH REFLECTORIZED PLASTIC DRUMS SHALL BE USED ALONG EMBANKMENTS, AND AT OTHER LOCATIONS WHERE EXISTING GUIDE RAIL HAS BEEN REMOVED, AND SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION HAS BEEN PROVIDED. SPACING OF DRUMS SHALL BE CONSISTENT WITH THE CONTRACT DOCUMENTS AND AS DIRECTED BY THE ENGINEER.
24. THE CONTRACTOR SHALL MAINTAIN STABLE EXCAVATION SIDE SLOPES AT ALL TIMES.
25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL PUBLIC AND PRIVATE UTILITIES FOR MAINTENANCE OR RELOCATION WORK WITH RESPECT TO SITE ACCESS, TRAFFIC CONTROL AND SCHEDULING TO AVOID CONFLICTS FOR TIMELY COMPLETION OF THE WORK.
26. THE CONTRACTOR SHALL PROVIDE SAFE AND CONVENIENT EMERGENCY ACCESS FOR LOCAL FIRE, POLICE AUTHORITIES AND AMBULANCE SERVICES THROUGHOUT THE PROJECT AREA AT ALL TIMES.
27. RESPONSIBILITY FOR EMERGENCY REPAIRS: THE CONTRACTOR SHALL, IN WRITING, SUBMIT TO THE APPROPRIATE LAW ENFORCEMENT AND GOVERNMENT AGENCIES THE NAME, ADDRESS AND TELEPHONE NUMBER(S) OF THE PERSON OR PERSONS AUTHORIZED TO SECURE LABOR, MATERIALS AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE OF NORMAL WORKING HOURS. DUPLICATE COPIES OF THE ABOVE SHALL BE FILED WITH THE ENGINEER.
28. WHERE DRUMS, CONES, VERTICAL PANELS OR TUBULAR MARKERS ARE USED IN CONTROLLING THE MOVEMENT OF TRAFFIC, THE CONTRACTOR SHALL TAKE WHATEVER STEPS ARE NECESSARY TO PREVENT ALL TRAFFIC CONTROL DEVICES FROM BEING BLOWN OVER OR DISPLACED BY PASSING VEHICLES. THE CONTRACTOR SHALL ACCOMPLISH THIS BY DOUBLING CONES, THE USE OF SAND BAGS, RINGS OR BY OTHER MEANS, AS APPROVED BY THE ENGINEER, WHICH SHALL NOT PRESENT A HAZARD TO MOTORISTS OR WORKERS IF THE CONES, DRUMS, VERTICAL PANELS OR TUBULAR MARKERS ARE STRUCK.
29. THE CONTRACTOR SHALL BACKFILL ALL OPEN EXCAVATIONS OR PROVIDE ANCHORED STEEL PLATES TO COVER ALL TRENCH EXCAVATIONS DURING NON-WORKING HOURS. ANCHORED STEEL PLATES SHALL ALSO BE PLACED ON SUBGRADE, SUBBASE COURSES OR BASE COURSES TO PROTECT SHALLOW UTILITY FACILITIES FROM WHEEL LOADINGS DUE TO CONSTRUCTION VEHICLES AND EQUIPMENT. STEEL PLATES SHALL BE RAMPED WITH ASPHALT IN THE ROADWAY AREA TO PROVIDE A SMOOTH TRANSITION. THE COST FOR ANCHORED PLATES AND PAVEMENT SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 619.01.
30. TRAVEL LANE WIDTH SHALL BE 10'-0" MINIMUM AT ALL TIMES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
31. THE BARRICADE SHALL NOT BE PLACED ALONG THE MERGING TAPER. THE LANE SHALL BE CLOSED USING CHANNELIZING DEVICES AND PAVEMENT MARKINGS.
32. ANY EXISTING PAVEMENT MARKINGS THAT ARE CONFLICTING OR MISLEADING SHALL BE REMOVED OR COVERED.
33. ADJUSTMENTS IN THE LOCATION OF ADVANCED WARNING SIGNS SHALL BE MADE TO ACCOMODATE THE HORIZONTAL AND VERTICAL ALIGNMENT OF THE ROADWAY, RECOGNIZING THAT THE DISTANCES SHOWN FOR SIGN SPACING ARE MINIMUS. ADJUSTMENTS IN THE HEIGHT OF THE SIGNAL HEADS SHALL BE MADE AS NEEDED TO CONFORM TO THE VERTICAL ALIGNMENT.

SINGLE LANE OPERATIONS

1. STAGED CONSTRUCTION METHODS WILL BE UTILIZED TO MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES.
2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF TICONDEROGA AND ESSEX COUNTY IN WRITING A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE AS TO WHEN HE WISHES TO UTILIZE THE TEMPORARY TRAFFIC SIGNALS AND REDUCE THE ROADWAY TO ONE LANE OPERATIONS. ONE LANE OPERATIONS MUST ONLY BE UTILIZED FOR THE TIME FRAMES AS OUTLINED IN THE SPECIAL NOTES "CULVERT OPENING" AND CONFORM TO ALL SPECIAL PROVISIONS AS OUTLINED IN THE PROJECT MANUAL. THE COST OF ALL SIGNAGE AND MAINTENANCE OF THE ONE LANE OPERATIONS SHALL BE INCLUDE UNDER ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.

CULVERT OPENING

1. VETERAN'S ROAD AND CULVERT APPROACHES MUST BE COMPLETED IN ACCORDANCE WITH THE PROJECT MANUAL. IN THE EVENT WORK IS NOT COMPLETED TO A POINT WHERE VETERAN'S ROAD IS NOT OPENED TO TRAFFIC, LIQUIDATED DAMAGES SHALL BE ACCESSED TO THE CONTRACTOR PER TABLE 108-1 OF THE STANDARD SPECIFICATIONS.
2. PRIOR TO OPENING, THE NEW CULVERT AND APPROACHES MUST BE COMPLETED TO THE EXTENT THAT PUBLIC TRAFFIC CAN BE SAFELY ACCOMMODATED. THIS INCLUDES ALL STRUCTURAL ELEMENTS, PAVEMENT UP TO TOP COURSE, PAVEMENT MARKINGS AND TRAFFIC SIGNS.
3. THE CONTRACTOR AGREES IN UNDERTAKING THIS PROJECT THAT ALL CONSIDERATIONS HAVE BEEN TAKEN AND ALLOWANCES MADE FOR ALL ORDINARY DELAYS AND HINDRANCES TO SUCH WORK, SUCH AS WEATHER, SECURING MATERIALS AND LABOR, AND CONDITIONS OR RESTRICTIONS AT THE PROJECT SITE.

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK S. KERN | DRAFTING F. CUOCCIO | PROJECT MANAGER S. KERN | CHECK B. WEAVER

FILE NAME = ...\CADD\1761.09_CPB_WZT-1.dgn
DATE/TIME = 4/15/2021
USER = skern

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED WORK ZONE TRAFFIC CONTROL GENERAL NOTES	CONTRACT NUMBER D036296 DRAWING NO. WZT-1 SHEET NO. 7

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

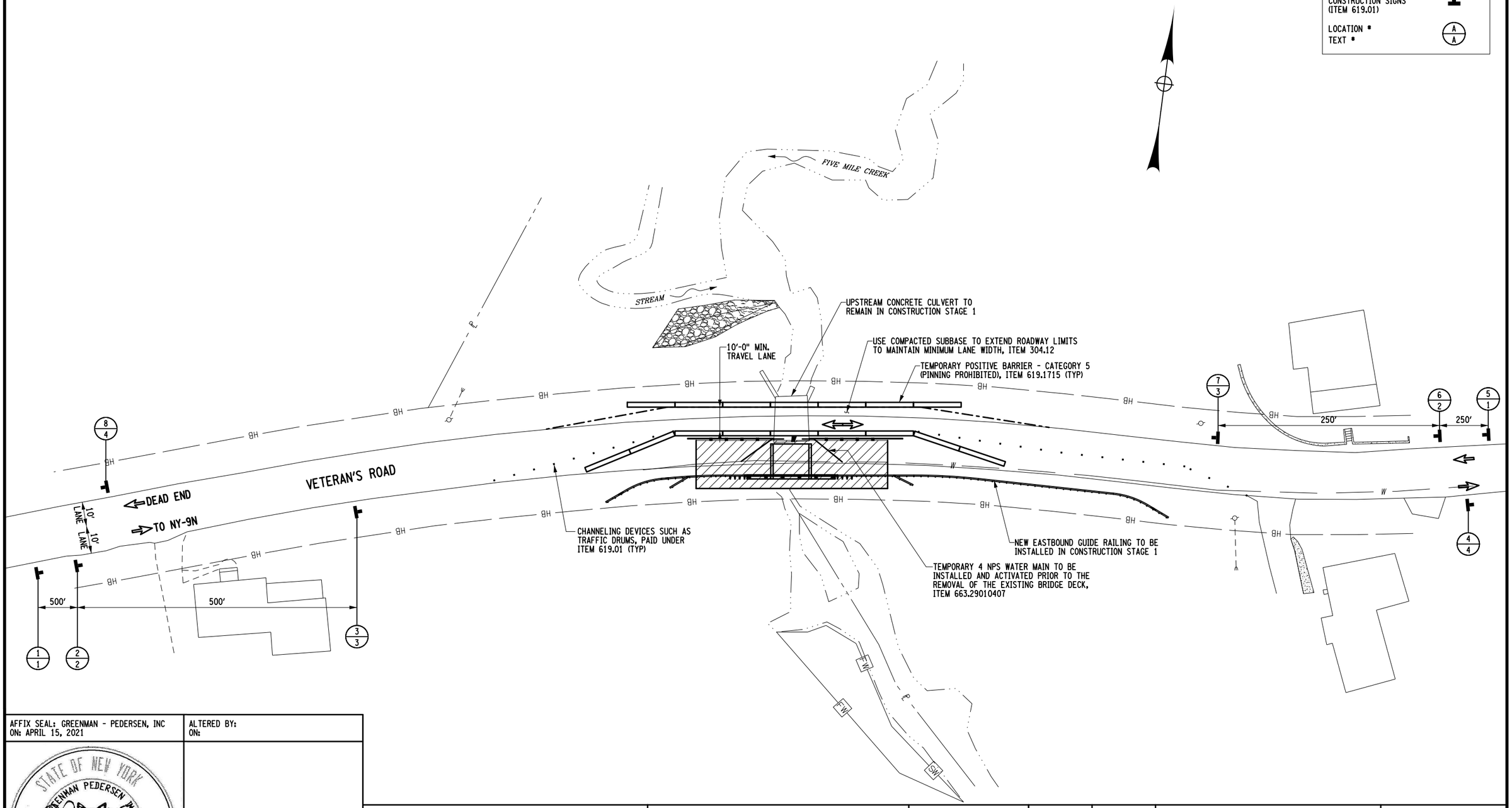
FILE NAME = ...\CADD\176109.CPB.WZT-2.dgn
DATE/TIME = 4/15/2021
USER = skern

LEGEND

WORK ZONE

CONSTRUCTION SIGNS (ITEM 619.01)

LOCATION *
TEXT *



AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

STATE OF NEW YORK
GREENMAN PEDERSEN INC
No. 131
LICENSED PROFESSIONAL ENGINEER

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

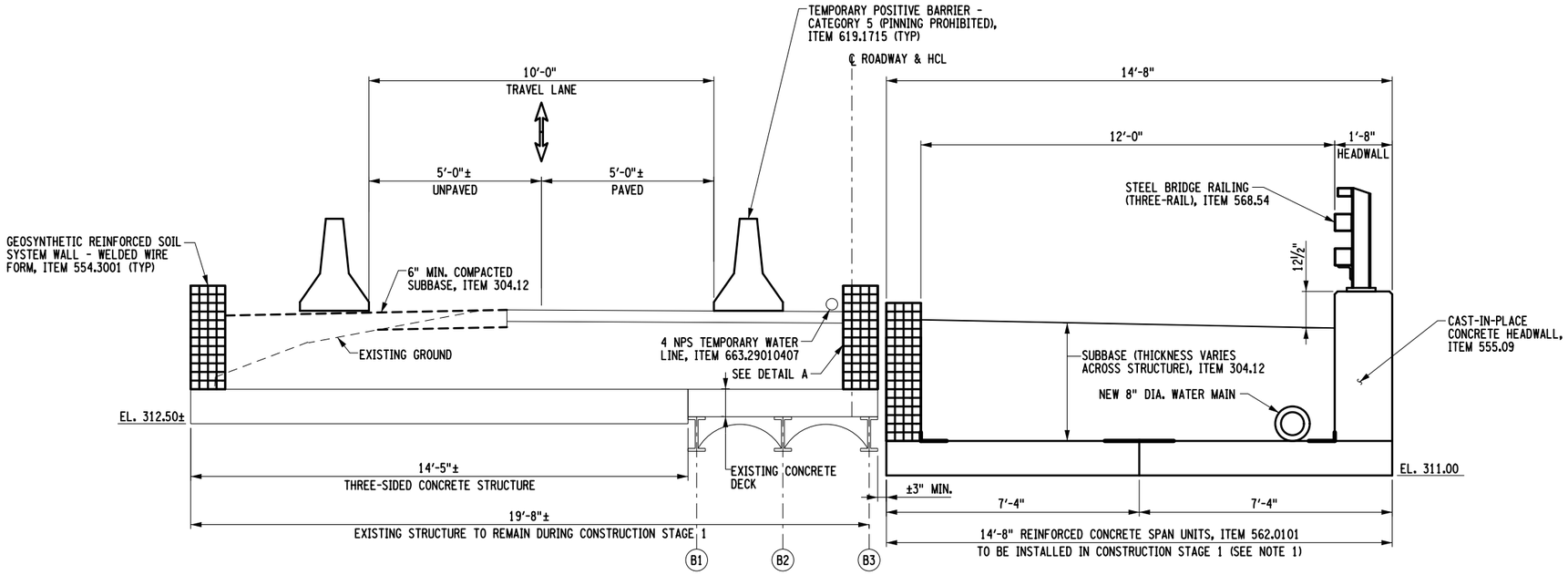
WORK ZONE TRAFFIC CONTROL PLAN - STAGE 1

CONTRACT NUMBER D036296

DRAWING NO. WZT-2
SHEET NO. 8

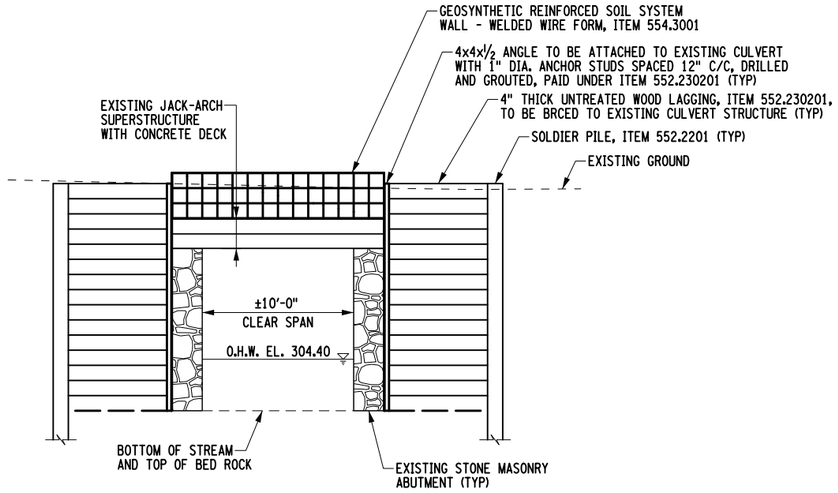
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA



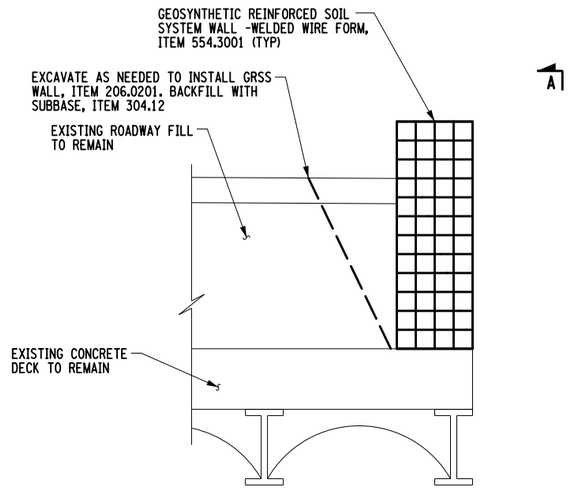
CONSTRUCTION STAGE 1 TYPICAL SECTION

SCALE: ¼"=1'-0"



SECTION A-A

SCALE: 1"=10'



DETAIL A

SCALE: ½"=1'-0"

NOTES:

1. THE NUMBER AND SIZE OF REINFORCED CONCRETE SPAN UNITS ARE ARBITRARILY SHOWN. ACTUAL NUMBER AND WIDTH OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN P.C. — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED WORK ZONE TRAFFIC CONTROL TYPICAL SECTION - STAGE 1	CONTRACT NUMBER D036296 DRAWING NO. WZT-3 SHEET NO. 9

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | CHECK S. KERN | PROJECT MANAGER S. KERN | DRAFTING F. CUOCCIO

FILE NAME = ...\CADD\1761.09_CPB_WZT-3.dgn
DATE/TIME = 4/15/2021
USER = skern

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

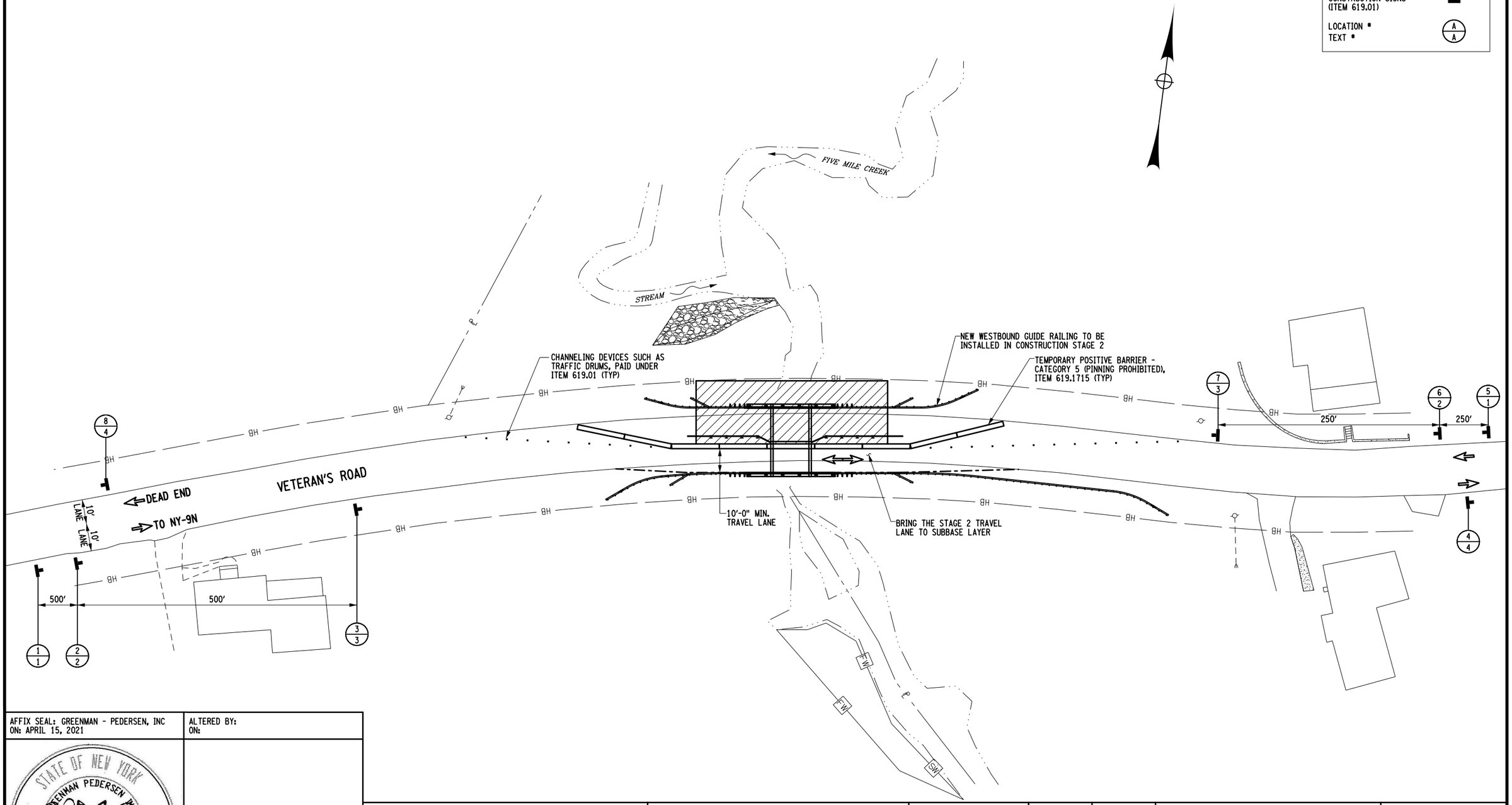
FILE NAME = ...\CADD\176109_CPB_WZT-4.dgn
DATE/TIME = 4/15/2021
USER = skern

LEGEND

WORK ZONE

CONSTRUCTION SIGNS (ITEM 619.01)

LOCATION * / TEXT *



AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
No. 131
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

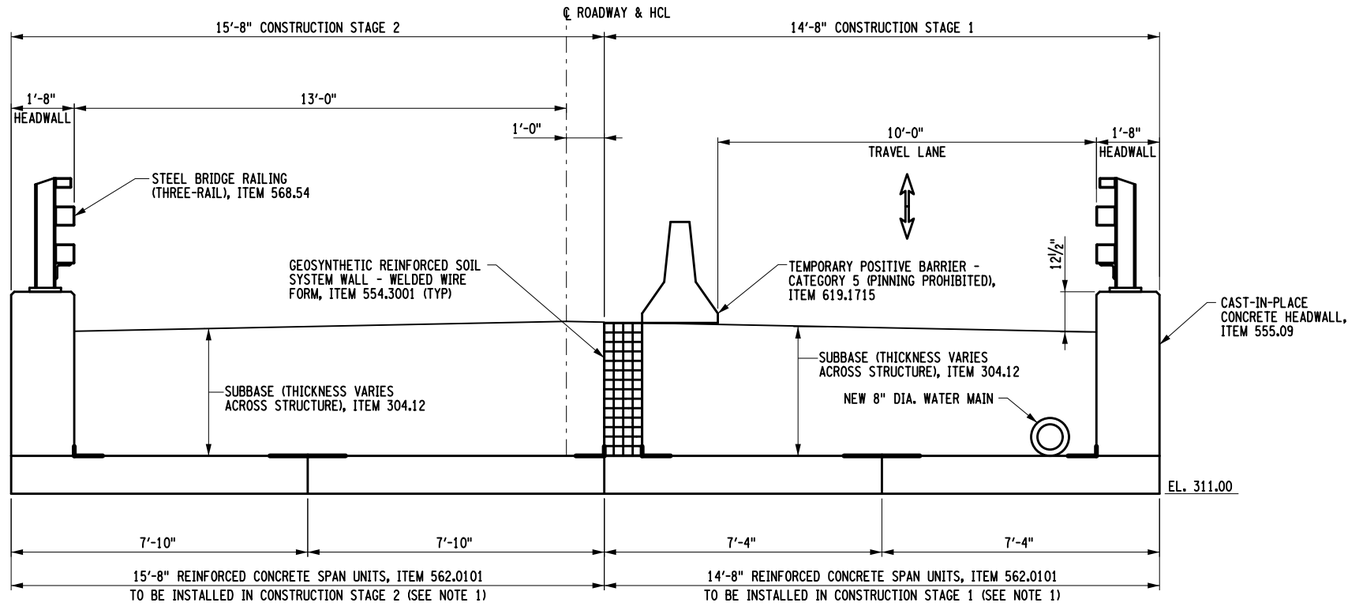
WORK ZONE TRAFFIC CONTROL PLAN - STAGE 2

CONTRACT NUMBER D036296

DRAWING NO. WZT-4
SHEET NO. 10

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA



CONSTRUCTION STAGE 2 TYPICAL SECTION

SCALE: ¼"=1'-0"

NOTES:

1. THE NUMBER AND SIZE OF REINFORCED CONCRETE SPAN UNITS ARE ARBITRARILY SHOWN. ACTUAL NUMBER AND WIDTH OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED WORK ZONE TRAFFIC CONTROL TYPICAL SECTION - STAGE 2	CONTRACT NUMBER D036296 DRAWING NO. WZT-5 SHEET NO. 11

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761.09_CPB_WZT-5.dgn
DATE/TIME = 4/15/2021
USER = skern

DETOUR CONSTRUCTION SIGNS

TEXT NUMBER	LOCATION NUMBER	TEXT	NATIONAL OR STATE M.U.T.C.D. NUMBER
1	1, 5		W20-1
2	2, 6	 	W20-4 W8-3
3 (SEE NOTE 2)	3, 7	 	R1-2 R1-2aP
4	4, 8		G20-2

NOTES:

1. ALL DETOUR SIGNS PAID FOR UNDER ITEM 619.01.
2. SIGNS 3 AND 7 ARE TO INCLUDE A FLASHING BEACON FOR VISABILITY, PAID UNDER ITEM 619.01.

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109.CPB.WZT-6.dgn
DATE/TIME = 4/15/2021
USER = skern

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WORK ZONE TRAFFIC CONTROL SIGN TABLE

CONTRACT NUMBER D036296

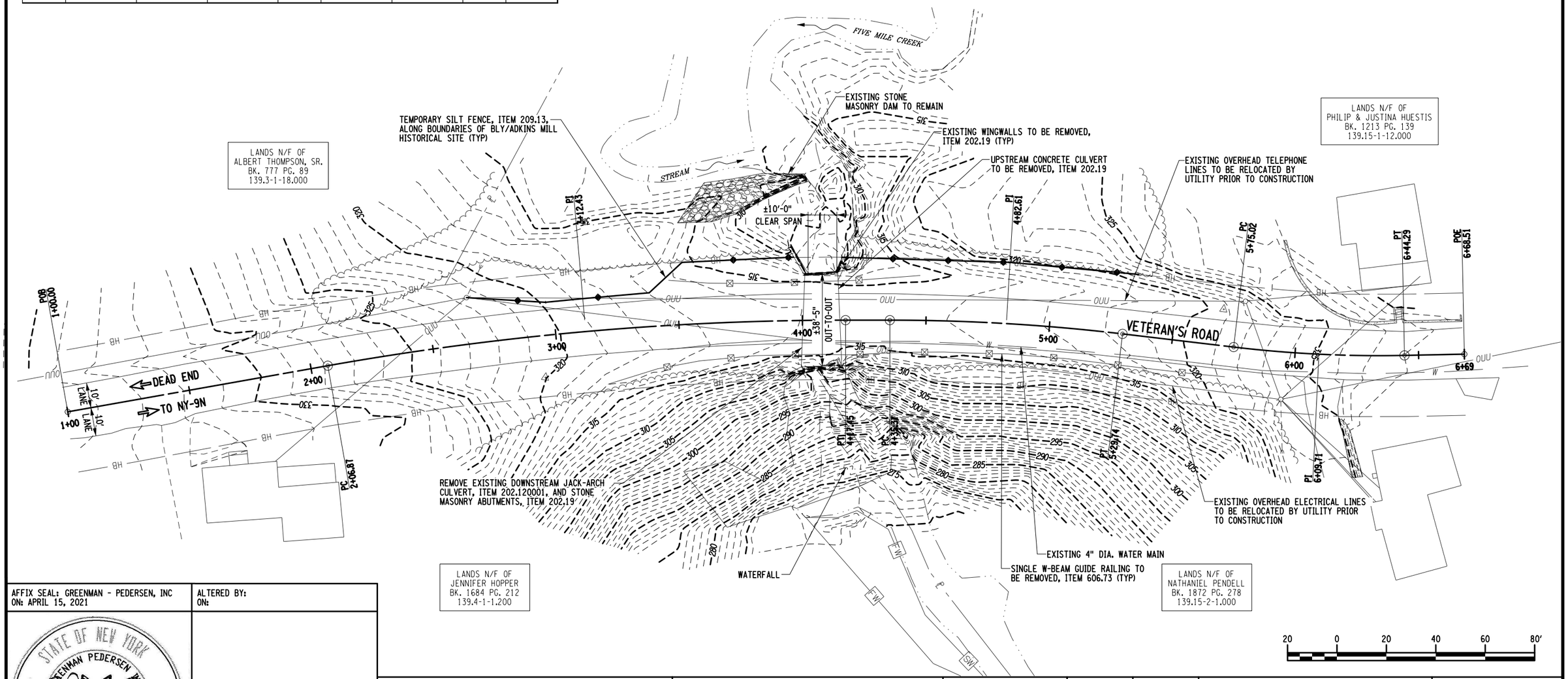
DRAWING NO. WZT-6
SHEET NO. 12

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
VETERAN'S ROAD								
POB	1+00.00	1840366.6896	768028.6757					
PC	2+06.87	1840398.6829	768130.6393			72°34'46.53"	106.87'	
PC	2+06.87	1840398.6829	768130.6393					
PI	3+12.43	1840430.2868	768231.3617	1200.00'	10°03'17.13" RIGHT		210.59'	105.56'
PT	4+17.45	1840443.8203	768336.0548					
PT	4+17.45	1840443.8203	768336.0548					
PC	4+35.37	1840446.1179	768353.8288			82°38'03.66"	17.92'	
PC	4+35.37	1840446.1179	768353.8288					
PI	4+82.61	1840452.1739	768400.6775	800.00'	6°45'30.86" RIGHT		94.37'	47.24'
PT	5+29.74	1840452.6744	768447.9134					

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
VETERAN'S ROAD CONTINUED								
PT	5+29.74	1840452.6744	768447.9134					
PC	5+75.02	1840453.1542	768493.1889			89°23'34.52"	45.28'	
PC	5+75.02	1840453.1542	768493.1889					
PI	6+09.71	1840453.5217	768527.8783	500.00'	7°56'16.60" LEFT		69.27'	34.69'
PT	6+44.29	1840458.6764	768562.1845					
PT	6+44.29	1840458.6764	768562.1845					
POE	6+68.51	1840462.2755	768586.1380			81°27'17.92"	24.22'	



AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
LICENSED PROFESSIONAL ENGINEER
No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

EXISTING GENERAL PLAN

CONTRACT NUMBER D036296

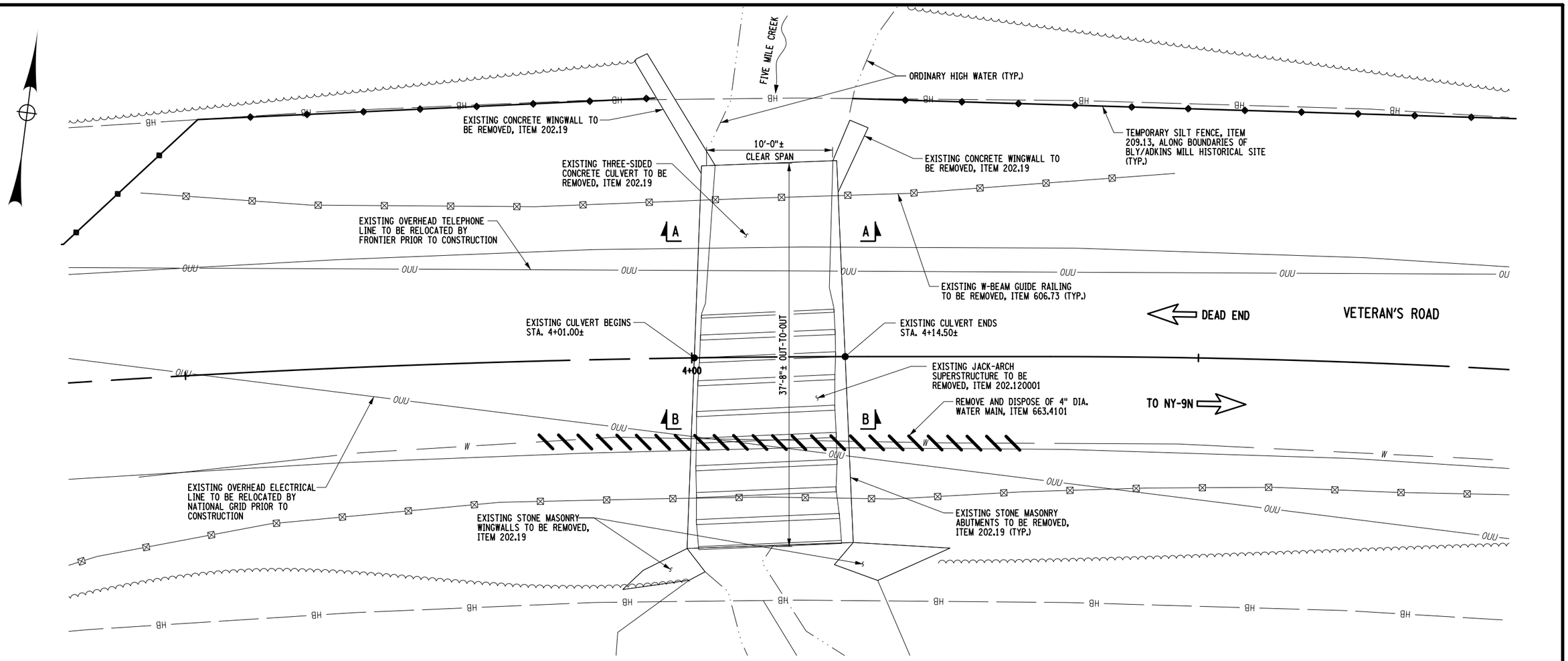
DRAWING NO. ST-1
SHEET NO. 13

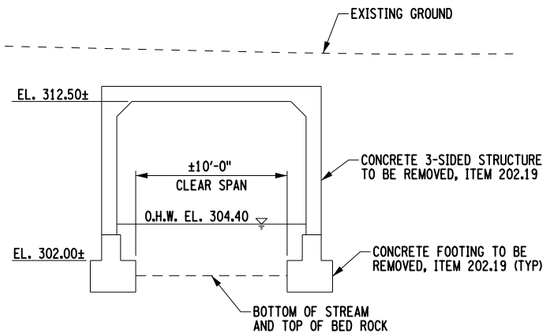
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

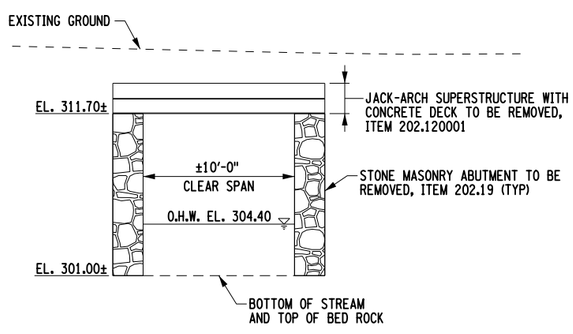
DESIGN SUPERVISOR J. SIMKULET
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK B. WEAVER
DRAFTING F. CUOCCIO
CHECK S. KERN
PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109_CPB_GEN_PLN_E.dgn
DATE/TIME = 4/15/2021
USER = skern





ELEVATION A-A
SCALE: 1"=10'



ELEVATION B-B
SCALE: 1"=10'

5 0 5 10 15 20'

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
No. 131
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

EXISTING BRIDGE PLAN

CONTRACT NUMBER D036296

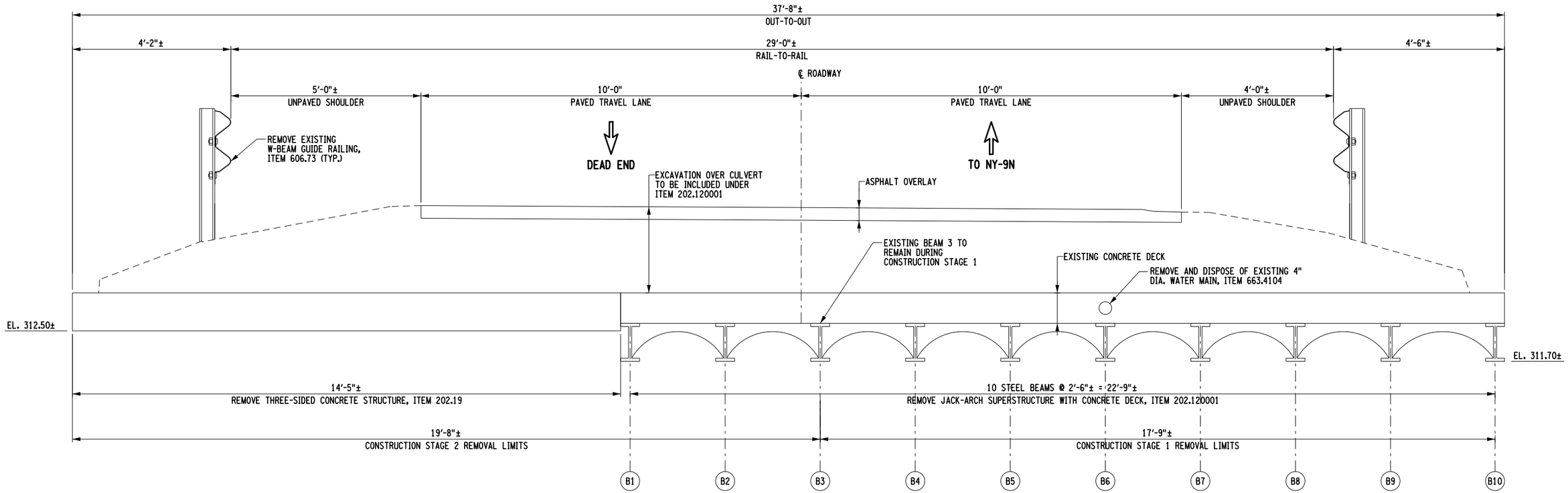
DRAWING NO. ST-2
SHEET NO. 14

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK S. KERN | DRAFTING F. CUOCCIO | CHECK B. WEAVER | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761109.CPB.BRD.PLN.E.dgn
DATE/TIME = 4/15/2021
USER = skern



EXISTING TYPICAL SECTION

SCALE: ⅜"=1'-0"

NOTES:

1. EXISTING DETAILS ARE FOR ESTIMATING PURPOSES ONLY AND MAY NOT REFLECT THE ACTUAL EXISTING CONDITION.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED EXISTING TYPICAL SECTION	CONTRACT NUMBER D036296 DRAWING NO. ST-3 SHEET NO. 15

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

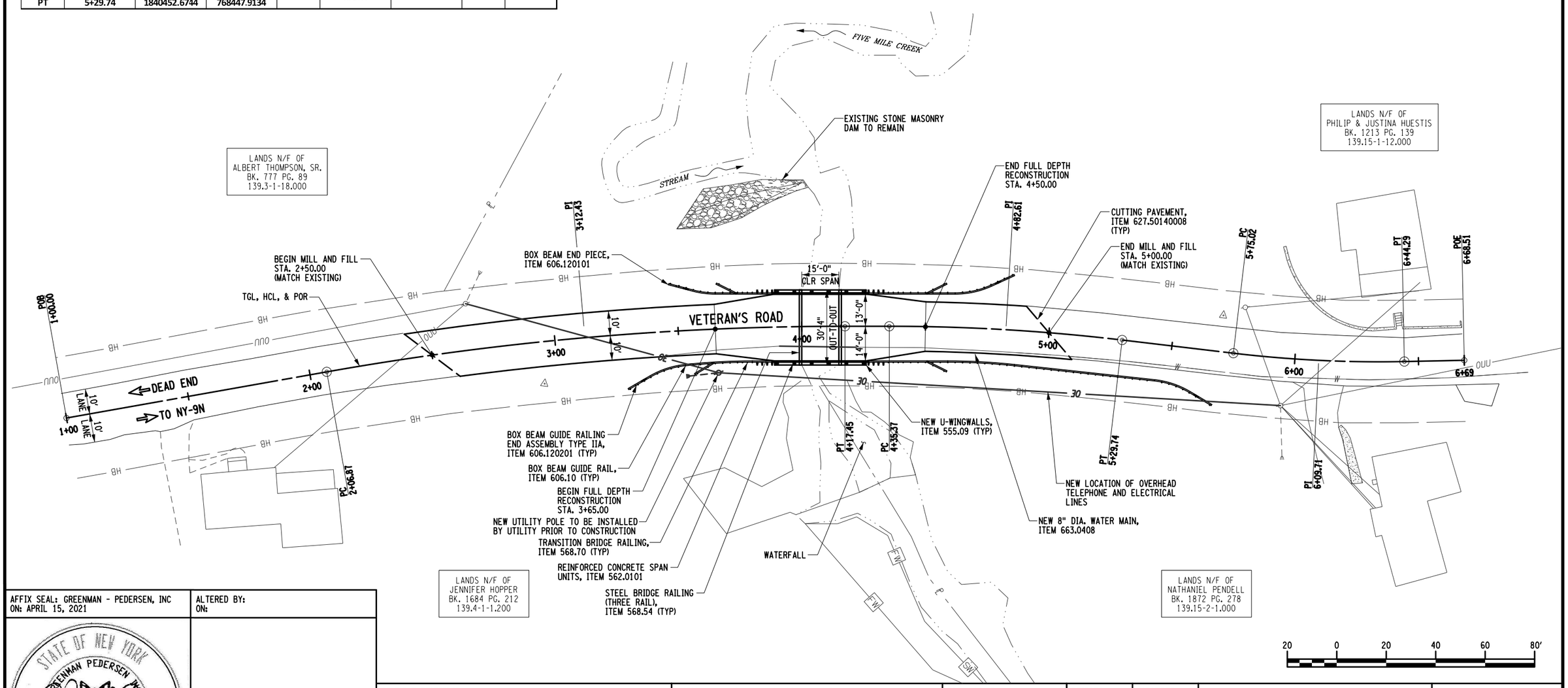
TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109.CPB.TYP.SEC.E.dgn
DATE/TIME = 4/15/2021
USER = skern

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
VETERAN'S ROAD								
POB	1+00.00	1840366.6896	768028.6757					
PC	2+06.87	1840398.6829	768130.6393			72°34'46.53"	106.87'	
PC	2+06.87	1840398.6829	768130.6393					
PI	3+12.43	1840430.2868	768231.3617	1200.00'	10°03'17.13" RIGHT		210.59'	105.56'
PT	4+17.45	1840443.8203	768336.0548					
PT	4+17.45	1840443.8203	768336.0548					
PC	4+35.37	1840446.1179	768353.8288			82°38'03.66"	17.92'	
PC	4+35.37	1840446.1179	768353.8288					
PI	4+82.61	1840452.1739	768400.6775	800.00'	6°45'30.86" RIGHT		94.37'	47.24'
PT	5+29.74	1840452.6744	768447.9134					

HORIZONTAL CONTROL AND CURVE TABLE								
H.C.L. POINT	H.C.L. STATION	NORTHING	EASTING	RADIUS	DELTA	AZIMUTH	LENGTH	TANGENT
VETERAN'S ROAD CONTINUED								
PT	5+29.74	1840452.6744	768447.9134					
PC	5+75.02	1840453.1542	768493.1889			89°23'34.52"	45.28'	
PC	5+75.02	1840453.1542	768493.1889					
PI	6+09.71	1840453.5217	768527.8783	500.00'	7°56'16.60" LEFT		69.27'	34.69'
PT	6+44.29	1840458.6764	768562.1845					
PT	6+44.29	1840458.6764	768562.1845					
POE	6+68.51	1840462.2755	768586.1380			81°27'17.92"	24.22'	



AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
LICENSED PROFESSIONAL ENGINEER
No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

PROPOSED GENERAL PLAN

CONTRACT NUMBER
D036296

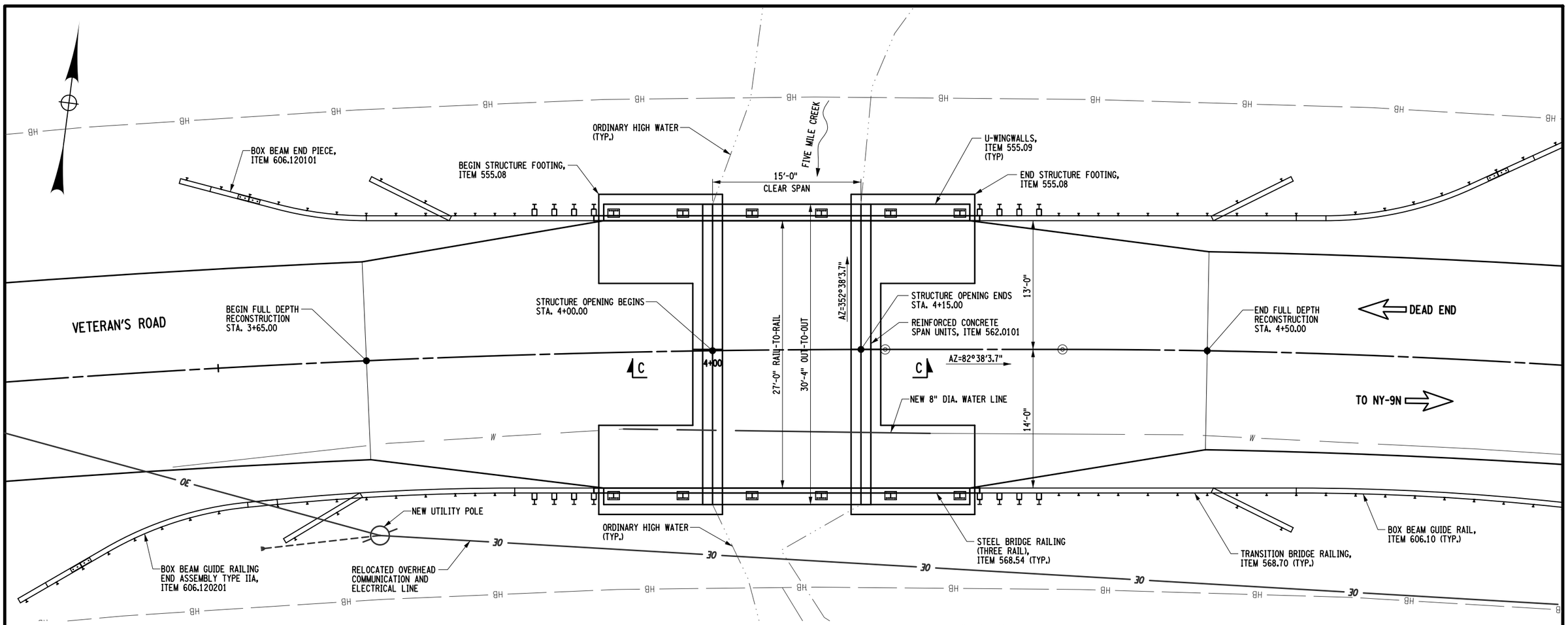
DRAWING NO. ST-4
SHEET NO. 16

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK B. WEAVER
DRAFTING F. CUOCCIO
CHECK S. KERN
PROJECT MANAGER S. KERN

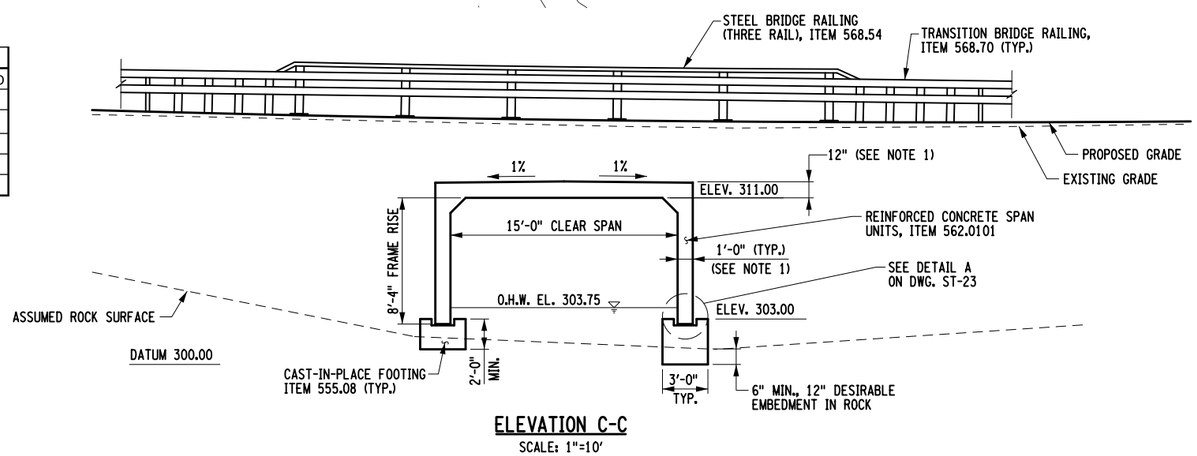
FILE NAME = ...\CADD\176109.CPB.GEN_PLN_P.dgn
DATE/TIME = 4/15/2021
USER = skern



HYDRAULIC DATA TABLE			
DRAINAGE AREA = 3.34 (SQ. MILES)		BASIC FLOOD	DESIGN FLOOD
RECURRENCY INTERVAL	(YRS.)	100	50
PEAK DISCHARGE	(FT^3/S)	338	294
HIGH WATER ELEVATION @ PT. OF MAX. BACKWATER	EXISTING	307.01	306.58
	PROPOSED	305.63	305.32
AVG. VELOCITY THRU STRUCTURE @ DESIGN FLOOD	(FT/S)	25.1	24.1

NOTES

1. 12" WALL AND CEILING THICKNESSES ARE ARBITRARILY SHOWN. ACTUAL VALUES SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.



ELEVATION C-C
SCALE: 1"=10'

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — No. 131 — LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

PROPOSED BRIDGE PLAN

CONTRACT NUMBER D036296

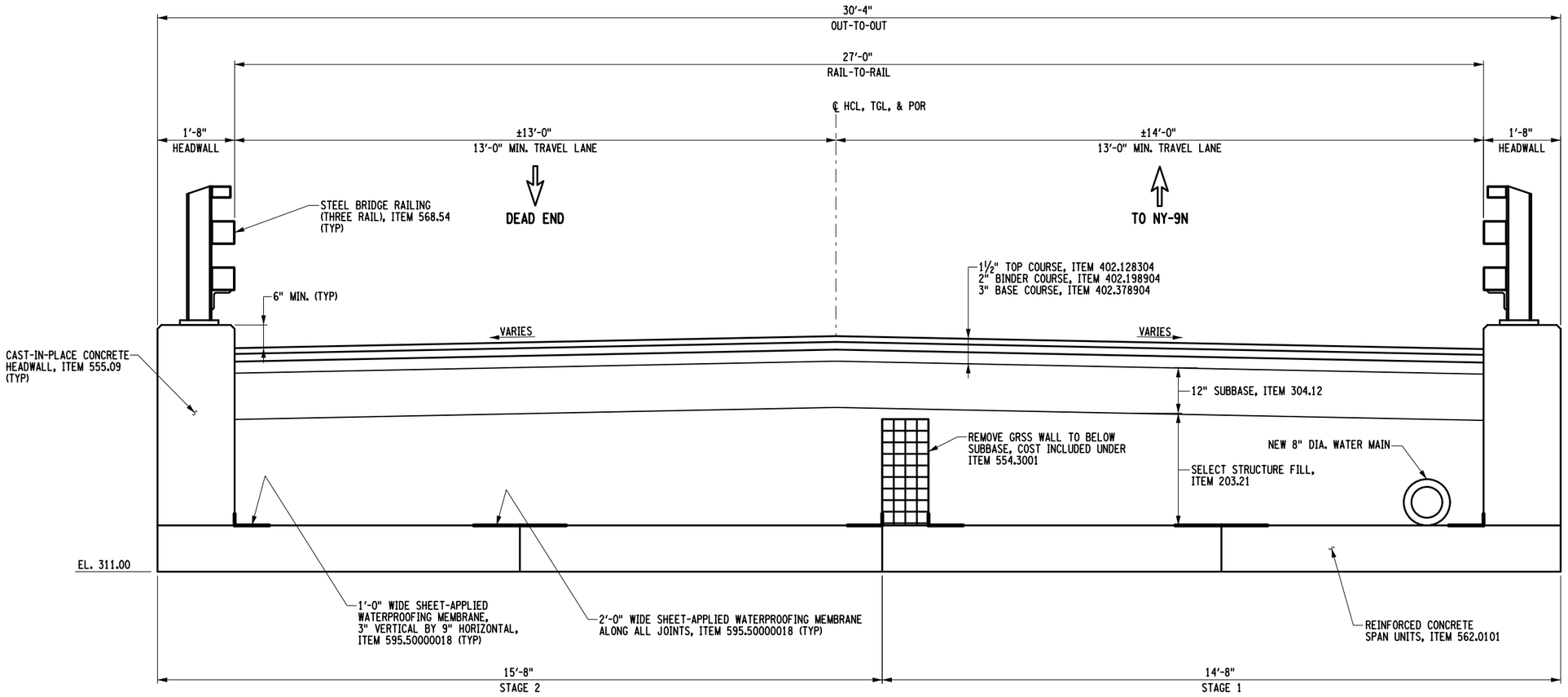
DRAWING NO. ST-5
SHEET NO. 17

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK B. WEAVER
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109.CPB.BRD.PLN.P.dgn
DATE/TIME = 4/15/2021
USER = skern



PROPOSED TYPICAL SECTION

SCALE: ⅜"=1'-0"

NOTES

1. FOUR (4) REINFORCED CONCRETE UNITS ARE ARBITRARILY SHOWN. ACTUAL NUMBER AND WIDTH OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.

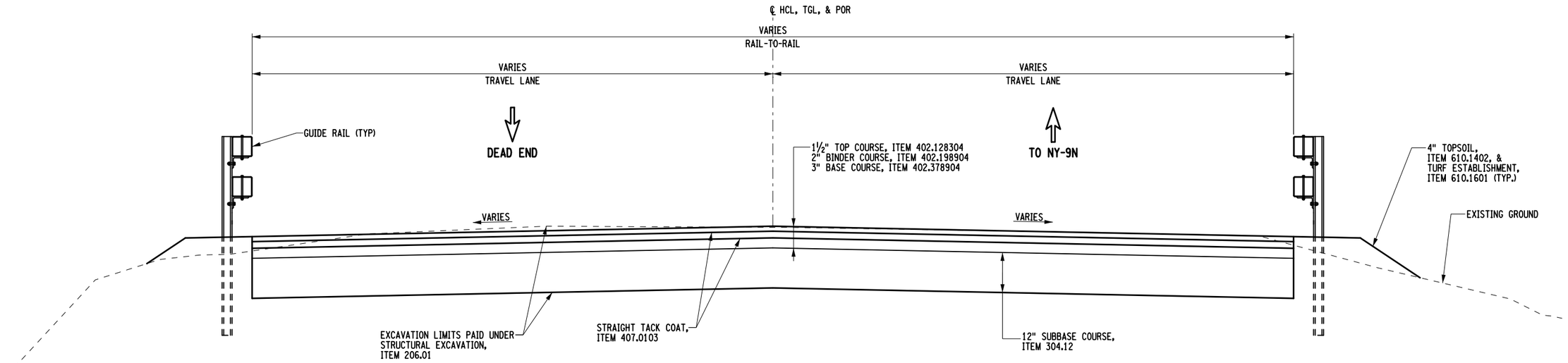
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:
STATE OF NEW YORK · GREENMAN PEDERSEN INC · LICENSED PROFESSIONAL ENGINEER · No. 131	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED PROPOSED TYPICAL SECTION	CONTRACT NUMBER D036296 DRAWING NO. ST-6 SHEET NO. 18

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

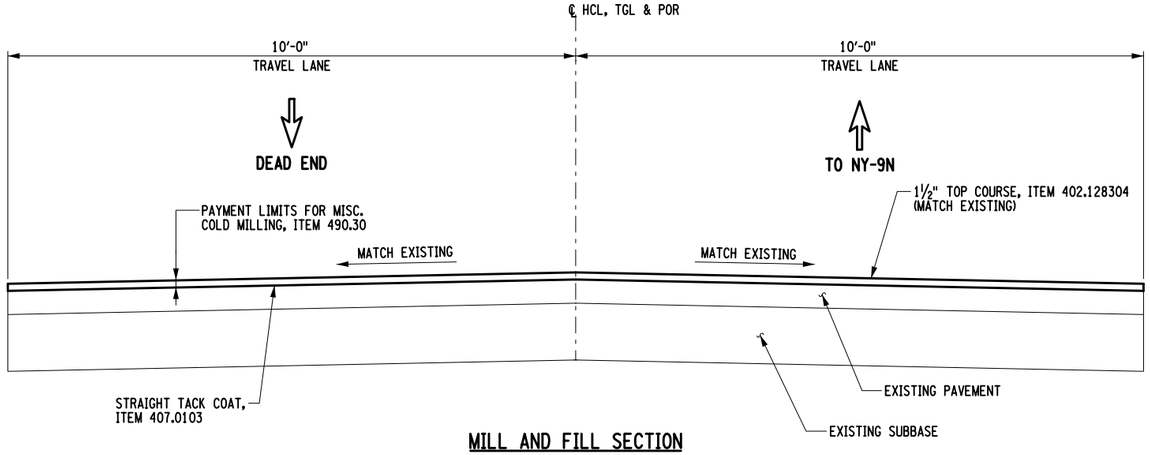
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761.09.CPB.TYP.SEC.P.dgn
DATE/TIME = 4/15/2021
USER = skern



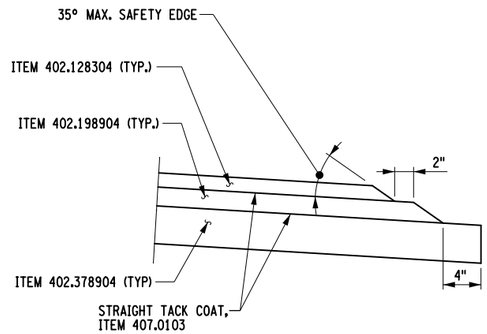
FULL DEPTH RECONSTRUCTION SECTION

STA. 3+65.00 TO CULVERT
CULVERT TO STA. 4+50.00
(STA. 3+90.00 SHOWN)
SCALE: ⅜"=1'-0"



MILL AND FILL SECTION

STA. 2+50.00 TO STA. 3+65.00
STA. 4+50.00 TO STA. 5+00.00
SCALE: ⅜"=1'-0"



EDGE OF PAVEMENT DETAIL

NOT TO SCALE

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

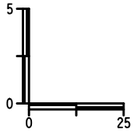
FILE NAME = ...\176109_CPB_TYP_SEC_RWY.dgn
DATE/TIME = 4/15/2021
USER = skern

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:
STATE OF NEW YORK · GREENMAN PEDERSEN INC · No. 131 · LICENSED PROFESSIONAL ENGINEER	

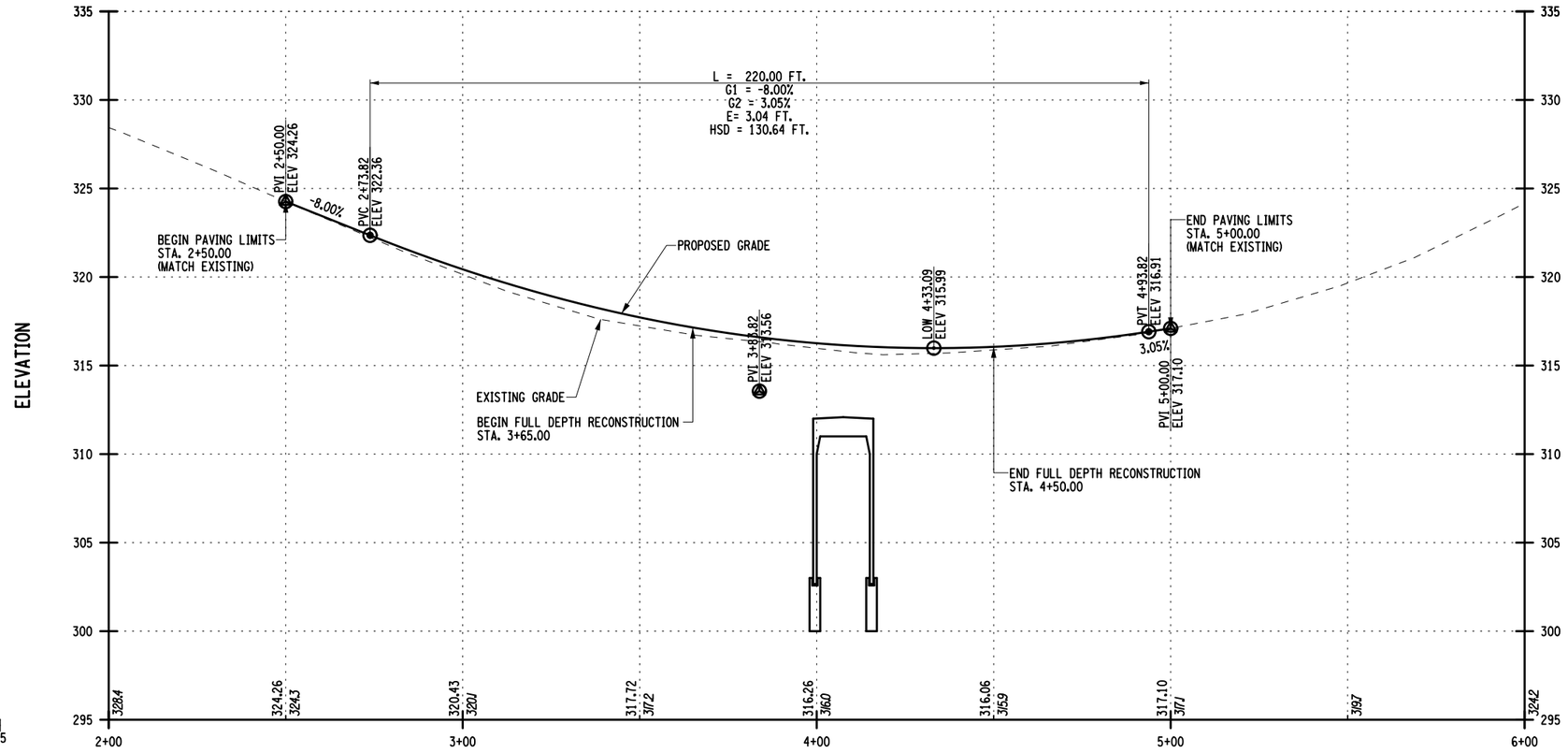
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED TYPICAL ROADWAY SECTIONS	CONTRACT NUMBER D036296 DRAWING NO. ST-7 SHEET NO. 19

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

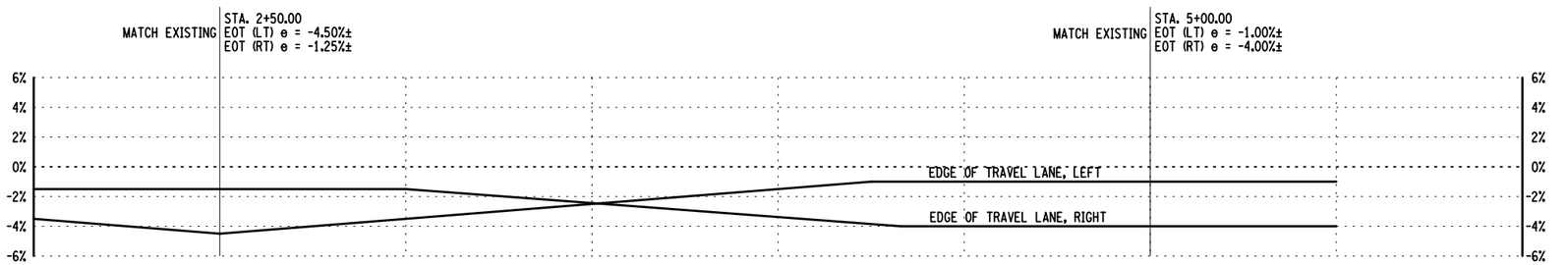
TOWN OF TICONDEROGA



VETERAN'S ROAD



STATION



PROPOSED SUPERELEVATION

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
No. 131
LICENSED PROFESSIONAL ENGINEER

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

PROPOSED PROFILE

CONTRACT NUMBER
D036296

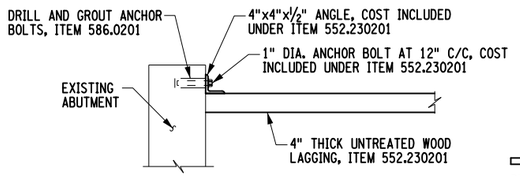
DRAWING NO. ST-8
SHEET NO. 20

GPI GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

TOWN OF TICONDEROGA

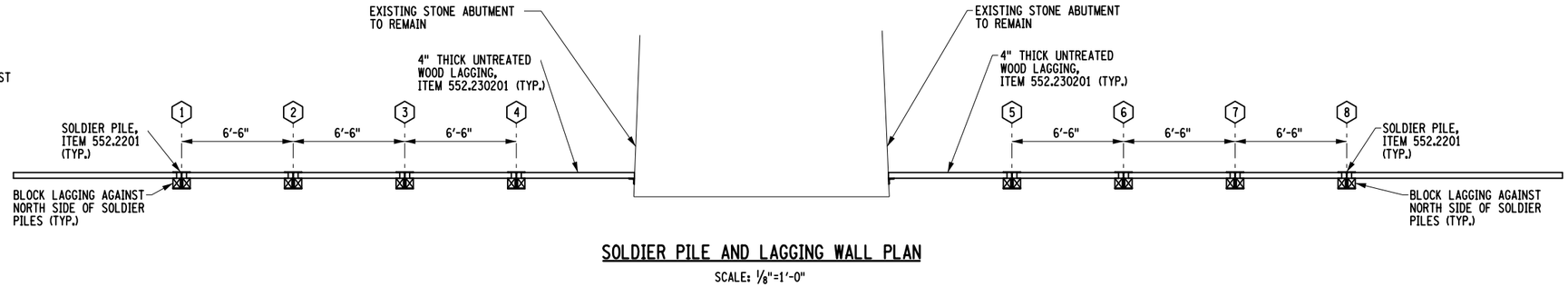
DESIGN SUPERVISOR J. SIMKULET
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
PROJECT MANAGER S. KERN
CHECK B. WEAVER

FILE NAME = ...\CADD\1761109.CPB.PRO.dgn
DATE/TIME = 4/15/2021
USER = skern



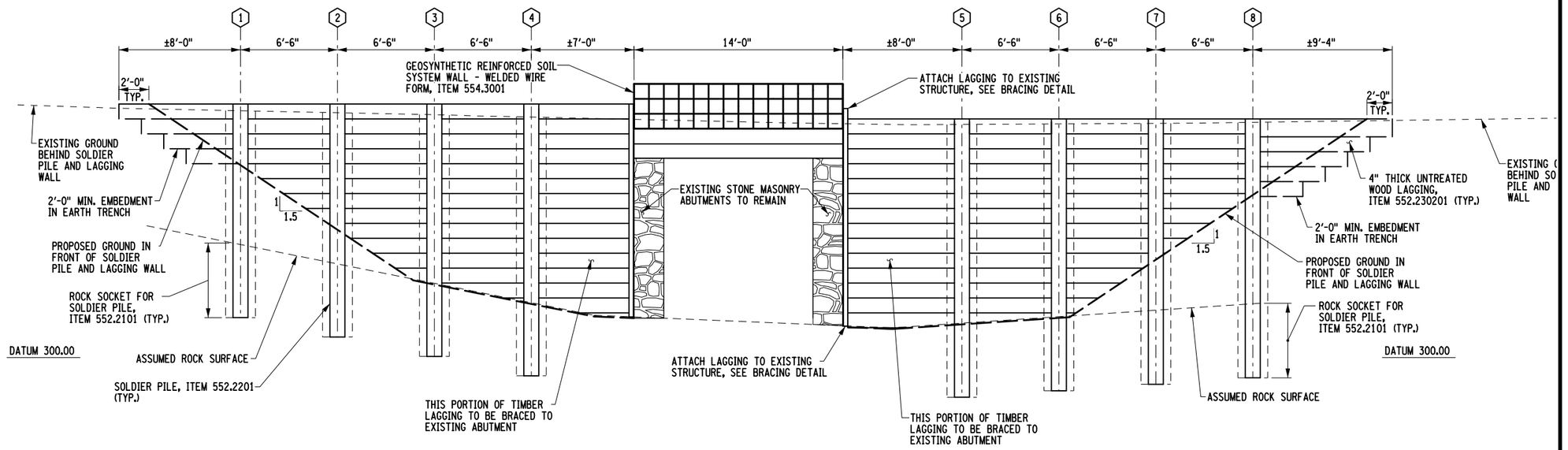
BRACING DETAIL

SCALE: 3/8"=1'-0"



SOLDIER PILE AND LAGGING WALL PLAN

SCALE: 1/8"=1'-0"

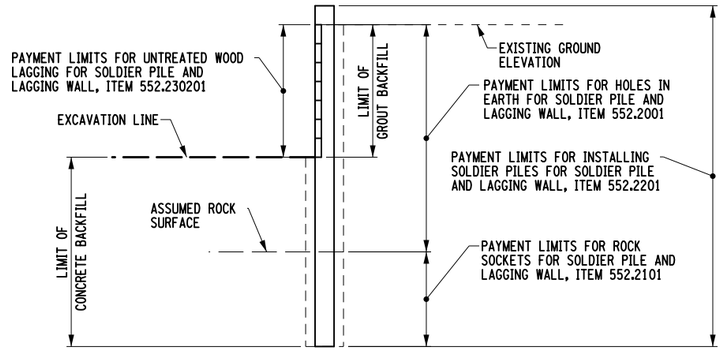


SOLDIER PILE AND LAGGING WALL ELEVATION

SCALE: 1/8"=1'-0"

SOLDIER PILE TABLE

PILE NUMBER	STATION	OFFSET (FT)	OFFSET SIDE	COORDINATES NORTHING	COORDINATES EASTING	PILE TOP ELEV. (FT)	ESTIMATED DEPTH OF EXCAVATION (FT)	ESTIMATED PILE TIP ELEV. (FT)	ESTIMATED PILE LENGTH (FT)	ASSUMED ROCK ELEV. (FT)	MINIMUM ROCK SOCKET (FT)	SUGGESTED SOLDIER PILE SECTION	MINIMUM DIA. OF HOLE (IN)	AS-BUILT PILE LENGTH (FT)
1	3+73.97	1.74	LEFT	1840439.1851	768292.7520	317.00	3.64	302.50	14.50	307.50	5.00	HP 12x53	24	
2	3+80.45	1.53	LEFT	1840440.0185	768299.1983	317.00	7.84	301.00	16.00	306.00	5.00	HP 12x53	24	
3	3+86.94	1.34	LEFT	1840440.8518	768305.6447	317.00	11.31	300.00	17.00	305.00	5.00	HP 12x53	24	
4	3+93.43	1.20	LEFT	1840441.6851	768312.0910	317.00	12.44	298.50	18.50	303.50	5.00	HP 12x53	24	
5	4+22.28	0.95	LEFT	1840445.3864	768340.7238	316.00	13.32	297.00	19.00	302.00	5.00	HP 12x53	24	
6	4+28.78	0.95	LEFT	1840446.2197	768347.1701	316.00	12.92	297.50	18.50	302.50	5.00	HP 12x53	24	
7	4+35.28	0.95	LEFT	1840447.0530	768353.6165	316.00	9.14	298.00	18.00	303.00	5.00	HP 12x53	24	
8	4+41.77	0.98	LEFT	1840447.8863	768360.0629	316.00	4.87	298.50	17.50	303.50	5.00	HP 12x53	24	



TYPICAL SECTION FOR PILES PLACED IN A HOLE

SCALE: 1/8"=1'-0"

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

NOTES

1. WHEN NO LONGER NEEDED FOR EXCAVATION SUPPORT, SOLDIER PILES AND LAGGING WALLS LOCATED INSIDE THE ROAD-BED LIMITS ARE TO BE CUT OFF AND REMOVED TO THE SUBGRADE SURFACE.
2. DO NOT USE WEATHERING STEEL (ASTM A588) FOR SOLDIER PILES.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

SOLDIER PILE & LAGGING WALL DETAILS

CONTRACT NUMBER D036296

DRAWING NO. ST-9

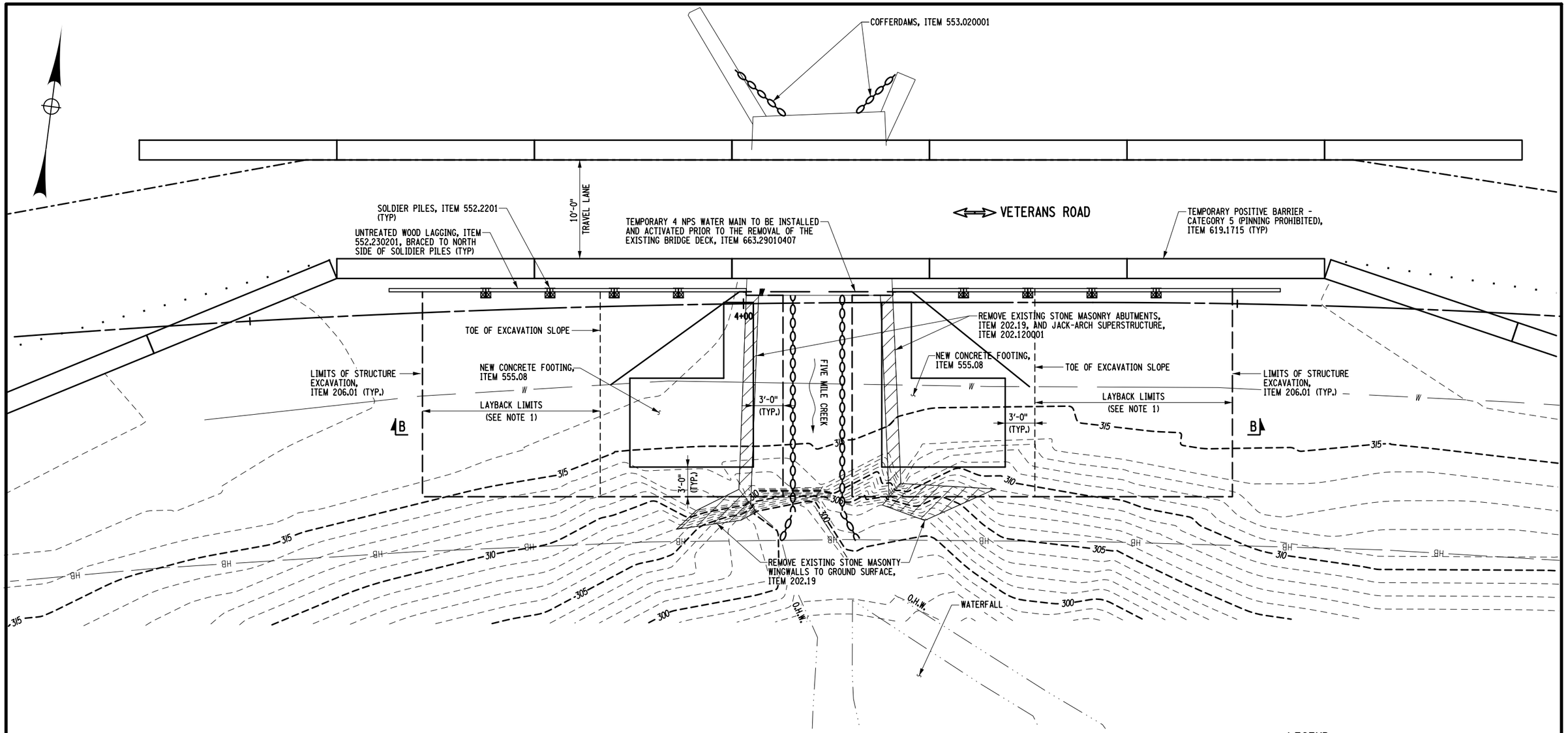
SHEET NO. 21

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET
CHECK

FILE NAME = ...\CADD\176109_CPB_SPL_PLN.dgn
DATE/TIME = 4/15/2021
USER = skern



NOTES:

1. FOR STRUCTURE EXCAVATION OVER 5'-0" DEEP USE A LAYBACK OF 1 VERTICAL ON 1.5 HORIZONTAL FROM THE BOTTOM OF EXCAVATION.

LEGEND

- LIMITS / PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- COFFERDAMS (TYPE 2), ITEM 553.020001

5 0 5 10 15 20'

REFERENCE

FOR SECTION B-B, SEE DWG. ST-14

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

STAGE 1
EXCAVATION PLAN

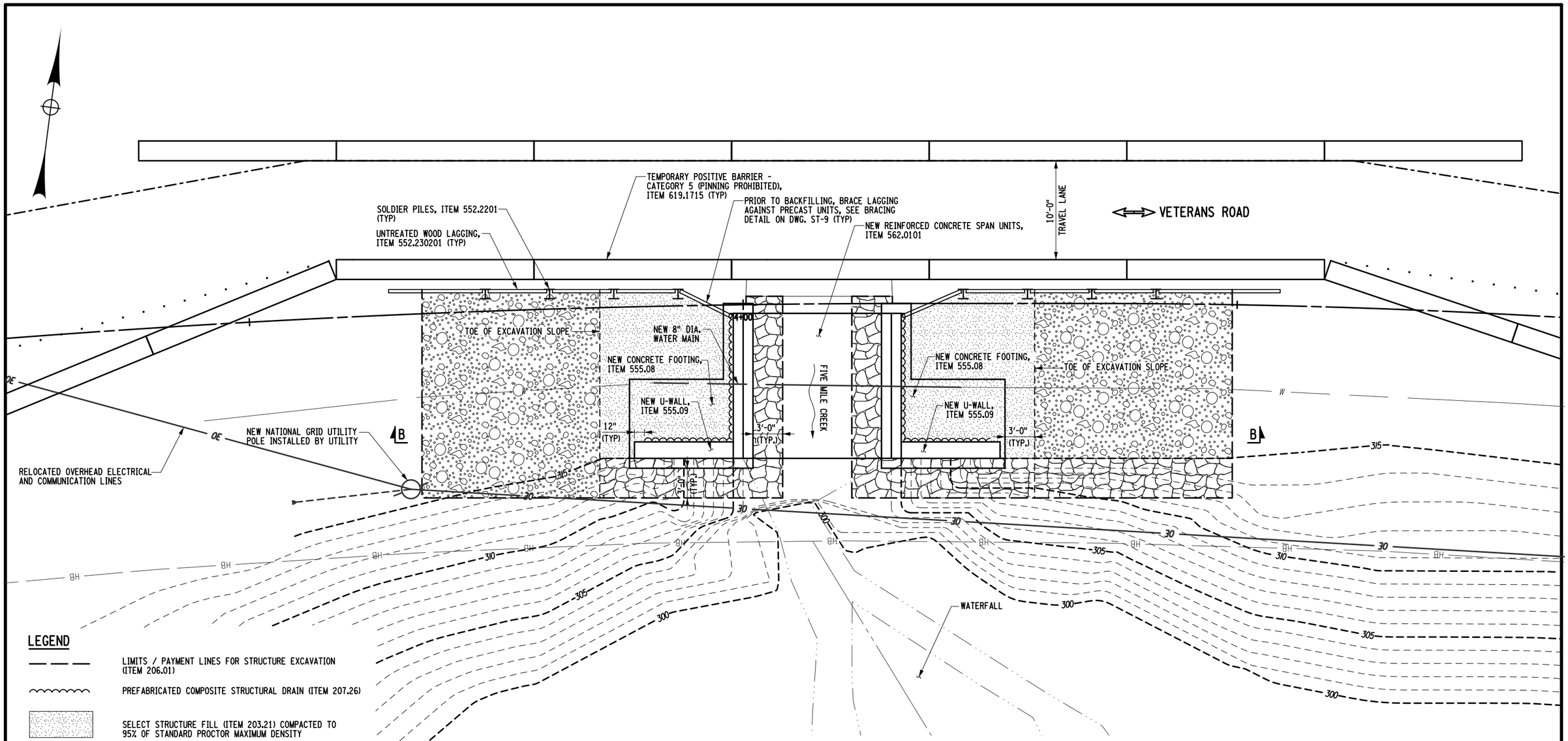
CONTRACT NUMBER D036296

DRAWING NO. ST-10
SHEET NO. 22

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109_CPB_EXC_PLN-1.dgn
DATE/TIME = 4/15/2021
USER = skern



LEGEND

- LIMITS / PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- SELECT STRUCTURE FILL (ITEM 203.21) COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- EMBANKMENT IN PLACE (ITEM 203.03)
- STONE FILLING (MEDIUM) (ITEM 620.04)

5 0 5 10 15 20'

REFERENCE

FOR SECTION B-B, SEE DWG. ST-14

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

STAGE 1
BACKFILL PLAN

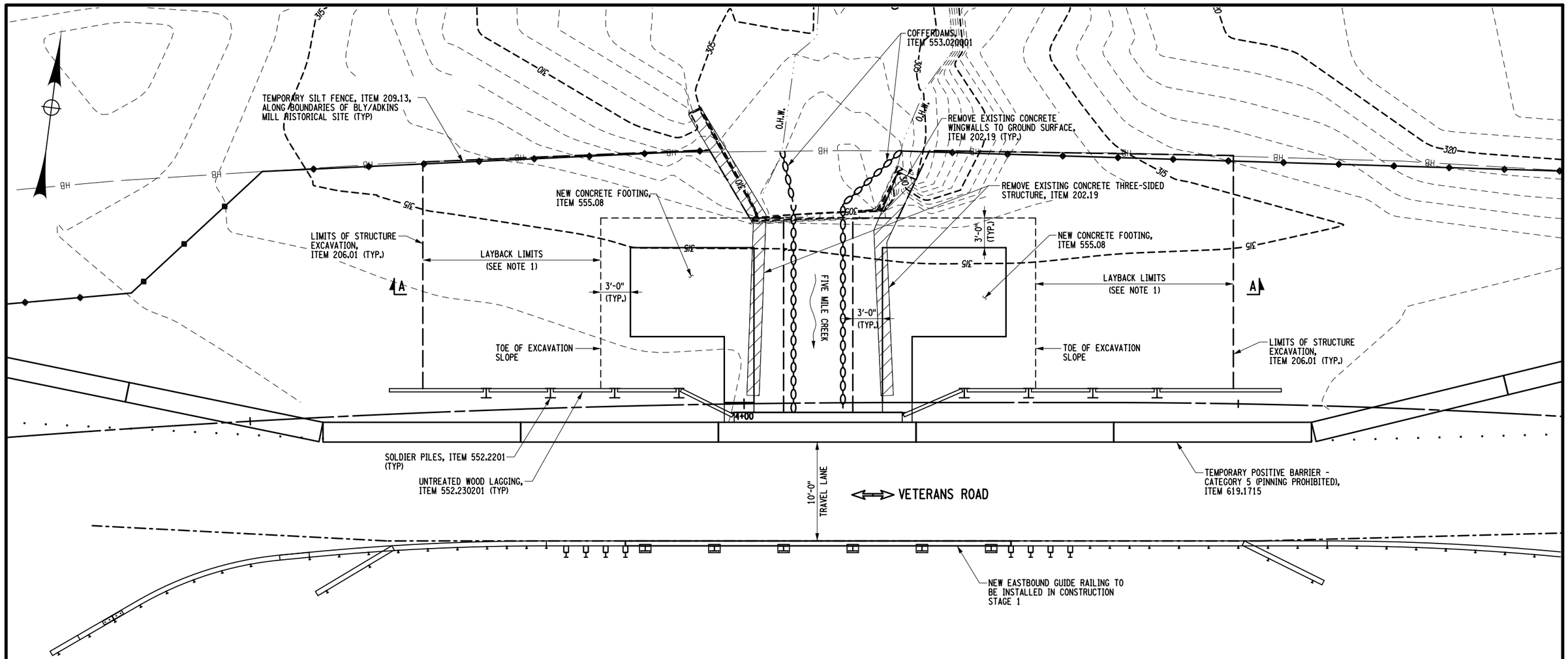
CONTRACT NUMBER
D036296

DRAWING NO. ST-11
SHEET NO. 23

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TICONDEROGA TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\1761\09.CPB.ERW.PLN-1.dgn
DATE/TIME = 4/15/2021
USER = skern



NOTES:

1. FOR STRUCTURE EXCAVATION OVER 5'-0" DEEP USE A LAYBACK OF 1 VERTICAL ON 1.5 HORIZONTAL FROM THE BOTTOM OF EXCAVATION.

LEGEND

- LIMITS / PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- COFFERDAMS (TYPE 2), ITEM 553.020001

5 0 5 10 15 20'

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — LICENSED PROFESSIONAL ENGINEER — No. 131

REFERENCE

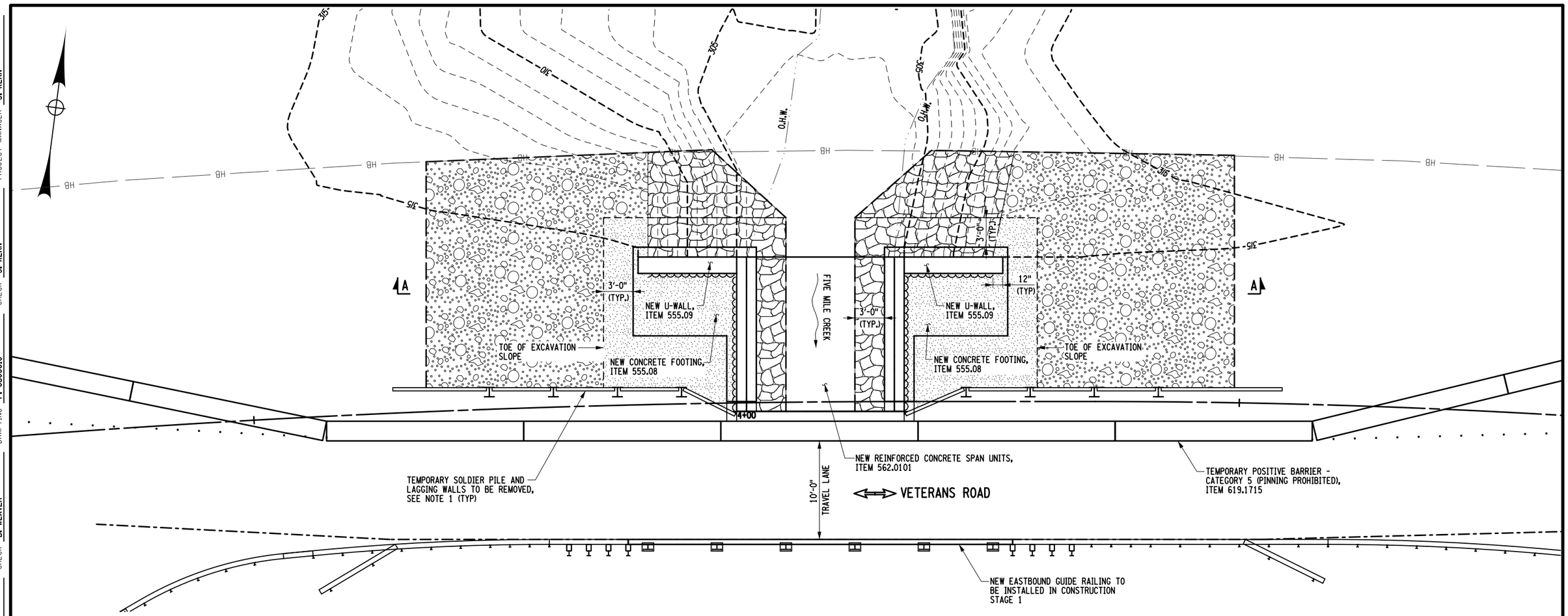
FOR SECTION A-A, SEE DWG. ST-14

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED STAGE 2 EXCAVATION PLAN	CONTRACT NUMBER D036296 DRAWING NO. ST-12 SHEET NO. 24

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TICONDEROGA — TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
DESIGN S. KERN
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109.CPB.EXC.PLN-2.dgn
DATE/TIME = 4/15/2021
USER = skern



LEGEND

- LIMITS / PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- SELECT STRUCTURE FILL (ITEM 203.21) COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- EMBANKMENT IN PLACE (ITEM 203.03)
- STONE FILLING (MEDIUM) (ITEM 620.04)

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — No. 131 — LICENSED PROFESSIONAL ENGINEER

NOTES:

1. SOLDIER PILE AND LAGGING WALLS LOCATED INSIDE THE ROAD-BED LIMITS ARE TO BE CUT OFF AND REMOVED TO THE SUBGRADE SURFACE.

REFERENCE

FOR SECTION A-A, SEE DWG. ST-14

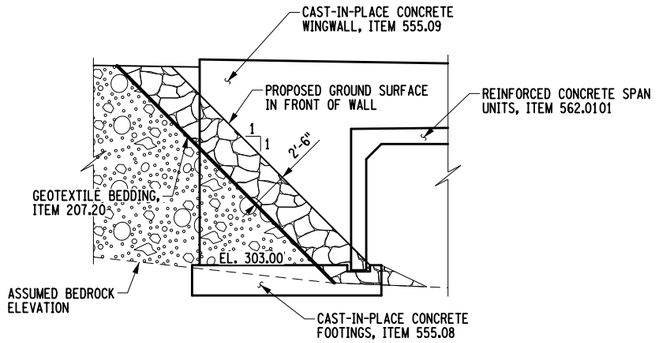
5 0 5 10 15 20'

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED STAGE 2 BACKFILL PLAN	CONTRACT NUMBER D036296 DRAWING NO. ST-13 SHEET NO. 25

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TICONDEROGA — TOWN OF TICONDEROGA

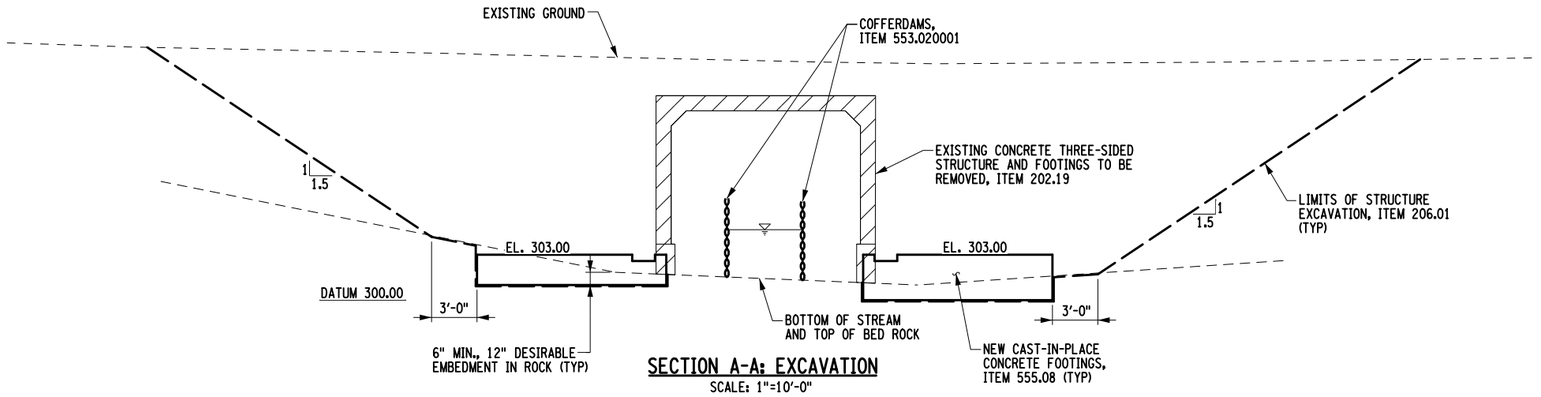
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109.CPB.ERW.PLN-2.dgn
DATE/TIME = 4/15/2021
USER = skern



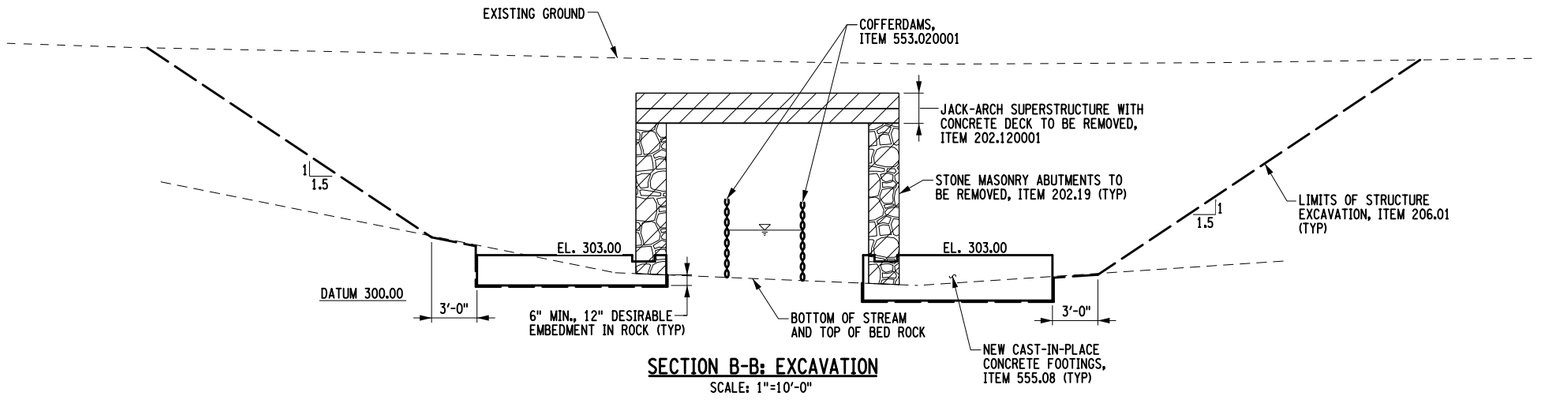
TYPICAL WINGWALL ELEVATION

SCALE: 1"=10'-0"



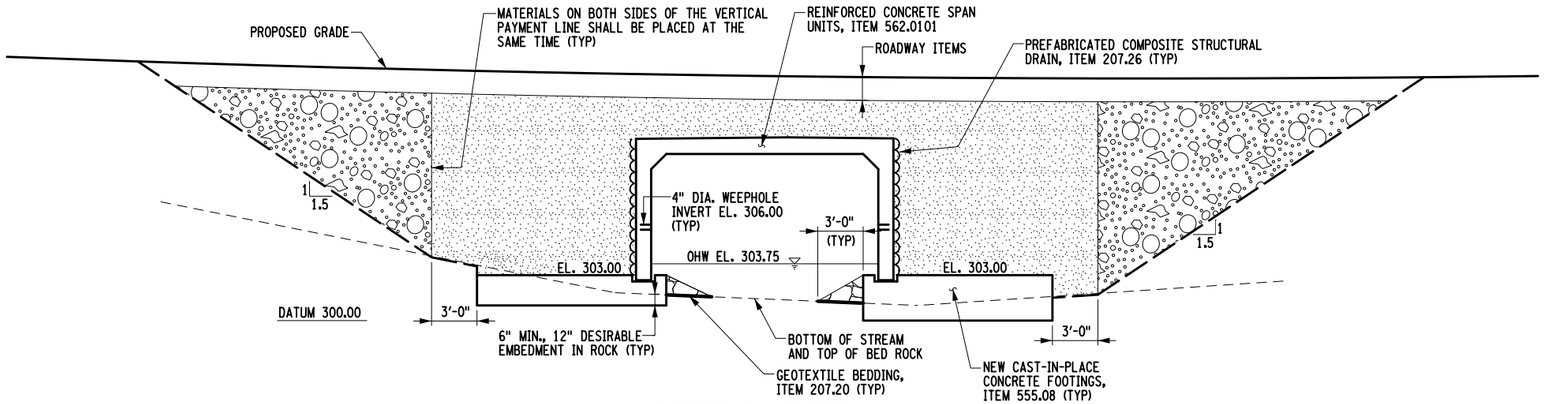
SECTION A-A: EXCAVATION

SCALE: 1"=10'-0"



SECTION B-B: EXCAVATION

SCALE: 1"=10'-0"



SECTION A-A: BACKFILL
SECTION B-B: BACKFILL

SCALE: 1"=10'-0"

LEGEND

- LIMITS / PAYMENT LINES FOR STRUCTURE EXCAVATION (ITEM 206.01)
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN (ITEM 207.26)
- COFFERDAMS (TYPE 2), ITEM 553.020001
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- SELECT STRUCTURE FILL (ITEM 203.21) COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY
- EMBANKMENT IN PLACE (ITEM 203.03)
- STONE FILLING (MEDIUM) (ITEM 620.04)

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

REFERENCE

FOR SECTION A-A, SEE DWG. ST-12 AND ST-13
FOR SECTION B-B, SEE DWG. ST-10 AND ST-11

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

EARTHWORK SECTIONS

CONTRACT NUMBER D036296

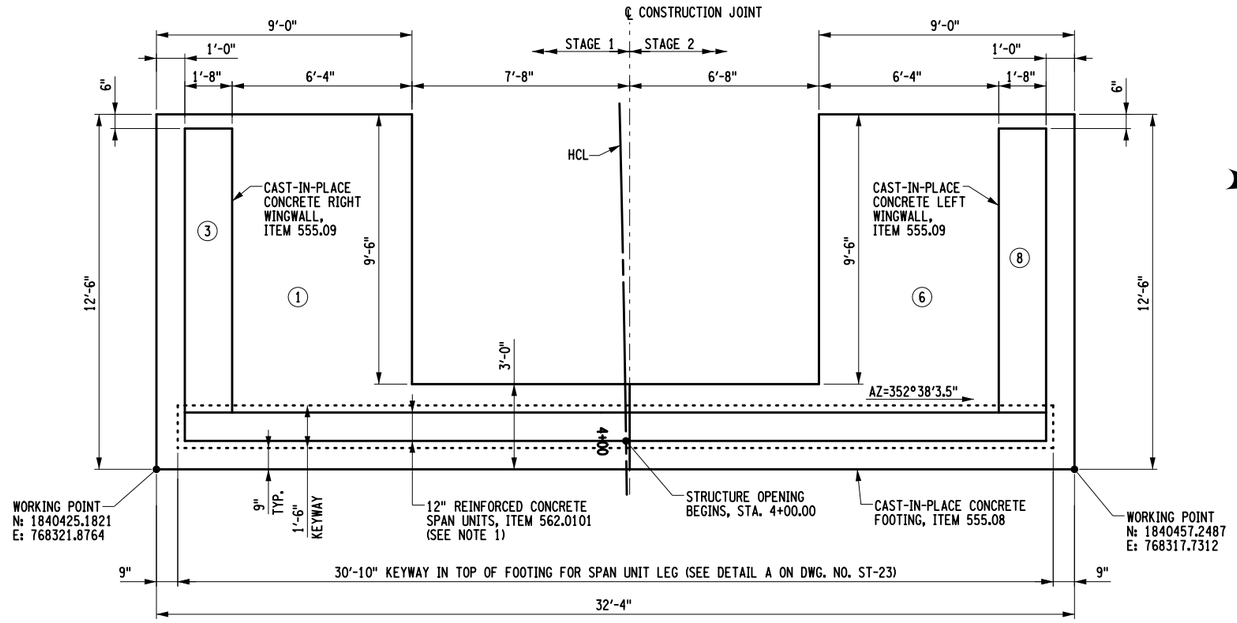
DRAWING NO. ST-14
SHEET NO. 26

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

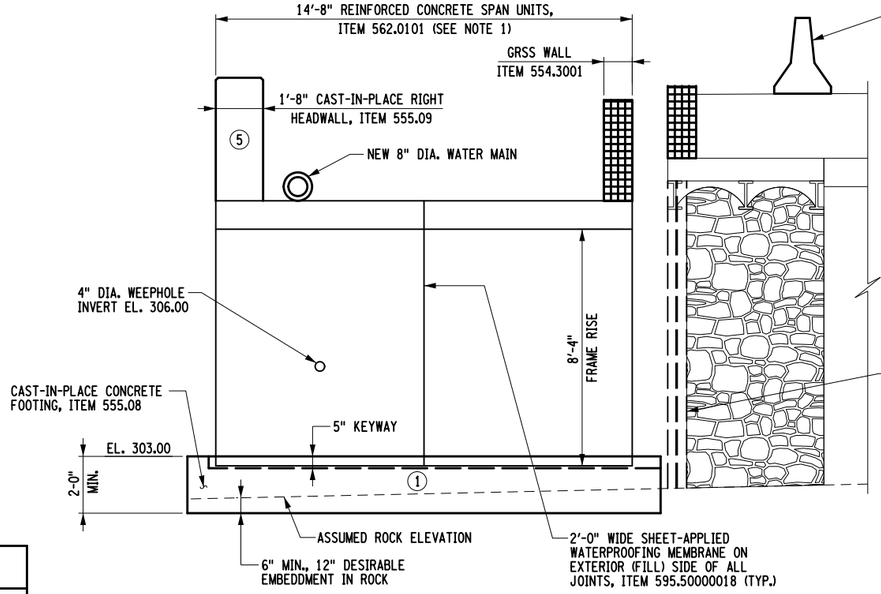
DESIGN SUPERVISOR J. SIMKULET
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109_CPB_ERW_SEC.dgn
DATE/TIME = 4/15/2021
USER = skern



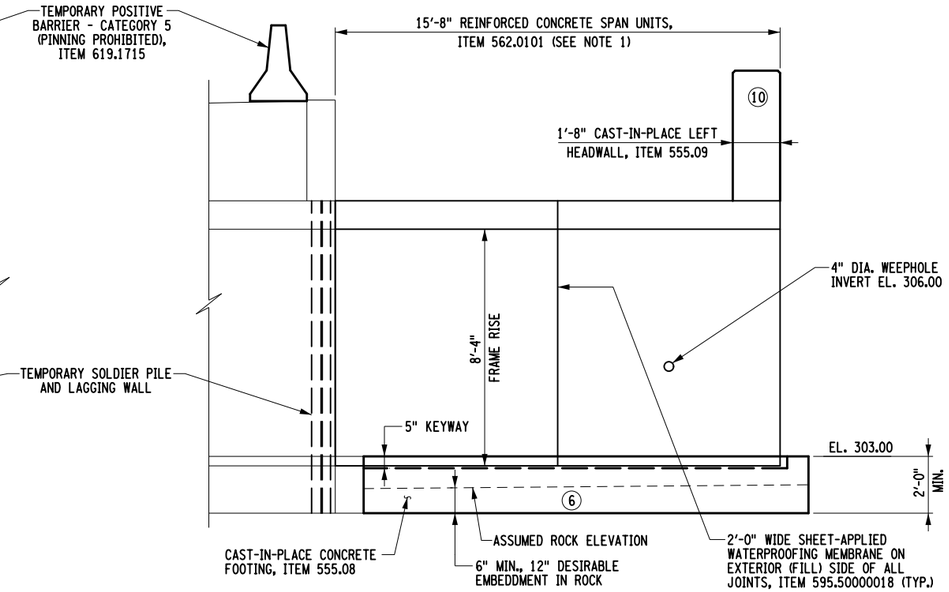
BEGIN ABUTMENT PLAN

SCALE: 3/16"=1'-0"



BEGIN ABUTMENT ELEVATION CONSTRUCTION STAGE 1

SCALE: 3/16"=1'-0"



BEGIN ABUTMENT ELEVATION CONSTRUCTION STAGE 2

SCALE: 3/16"=1'-0"

NOTES:

1. THE NUMBER AND SIZE OF REINFORCED CONCRETE SPAN UNITS ARE ARBITRARILY SHOWN. ACTUAL NUMBER AND DIMENSIONS OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.
2. ADHERE TO THE FOLLOWING PROCEDURES:

   A. IF THE ROCK SURFACE IS WITHIN 2 FEET OF EL. 301.00, ADHERE TO THE FOLLOWING:

   - IF THE ROCK SURFACE IS HIGHER, REMOVE THE ROCK SO THAT THE MINIMUM FOOTING THICKNESS OF 2 FEET CAN BE MAINTAINED.

   - IF THE ROCK SURFACE IS LOWER, PLACE ADDITIONAL CONCRETE SO THAT THE TOP OF FOOTING EL. 303.00 CAN BE MAINTAINED.

   B. IF THE ROCK SURFACE IS MORE THAN 2 FEET FROM EL. 301.00, THE RESIDENT ENGINEER WILL NOTIFY THE ENGINEER OF THIS CONDITION. THE ENGINEER WILL DETERMINE IF: THE FOUNDATION FOR THE SUBSTRUCTURE HAS TO BE REDESIGNED, ADDITIONAL FOOTING CONCRETE HAS TO BE PLACED, OR ADDITIONAL ROCK HAS TO BE EXCAVATED.
3. A FOOTING THICKNESS OF 3'-0" IS ASSUMED FOR ESTIMATING PURPOSES.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

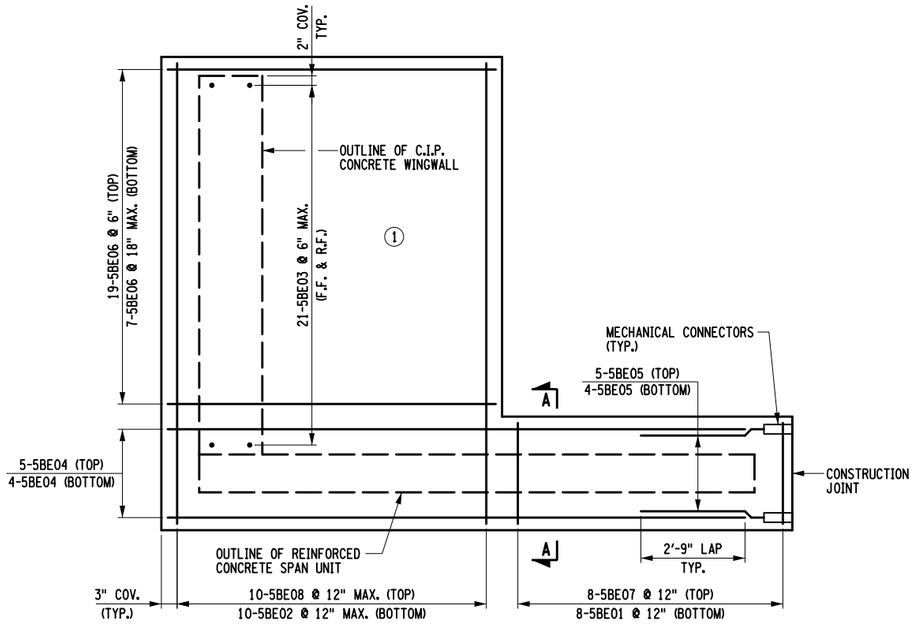
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER D036296
					PROPOSED BEGIN ABUTMENT	DRAWING NO. ST-15 SHEET NO. 27

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

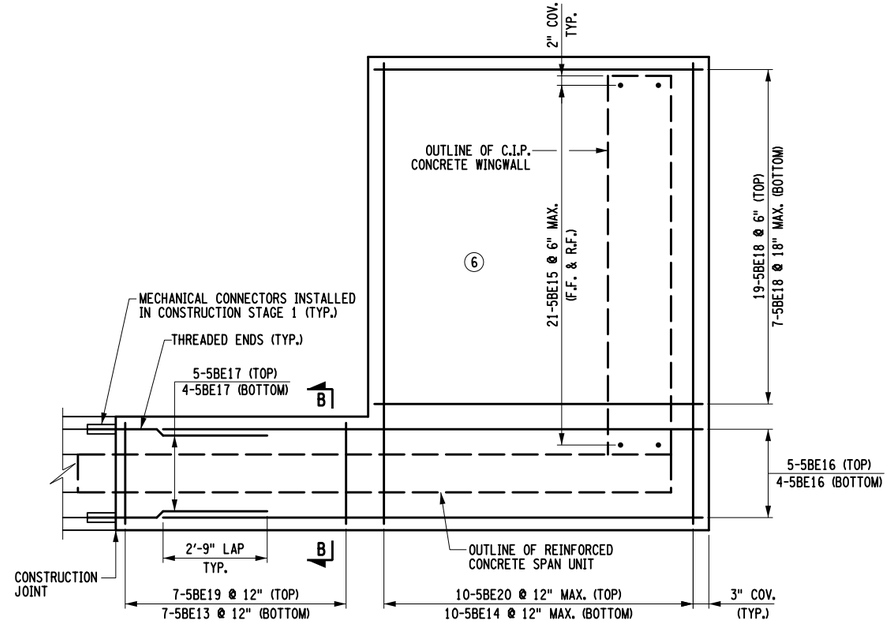
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109_CPB_ABT_BGN.dgn
DATE/TIME = 4/15/2021
USER = skern



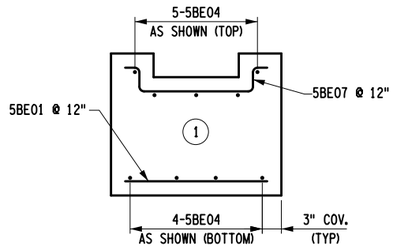
BEGIN ABUTMENT FOOTING REINFORCEMENT PLAN CONSTRUCTION STAGE 1

SCALE: 1/4"=1'-0"



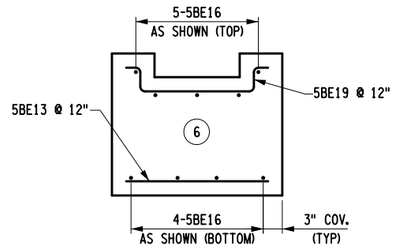
BEGIN ABUTMENT FOOTING REINFORCEMENT PLAN CONSTRUCTION STAGE 2

SCALE: 1/4"=1'-0"



SECTION A-A

SCALE: 3/8"=1'-0"



SECTION B-B

SCALE: 3/8"=1'-0"

NOTES:

1. ALL REBAR SHOWN IS TO BE PAID FOR UNDER ITEM 556.0202 EXCEPT AS NOTED.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
No. 131
LICENSED PROFESSIONAL ENGINEER

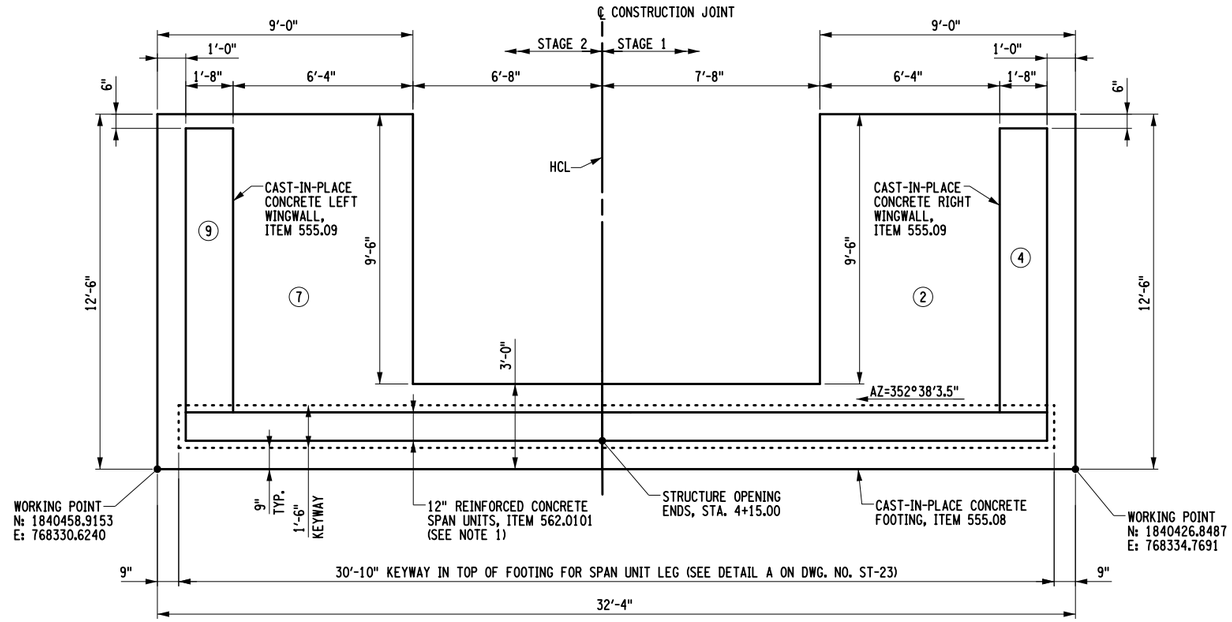
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED BEGIN ABUTMENT FOOTING REINFORCEMENT PLAN	CONTRACT NUMBER D036296 DRAWING NO. ST-16 SHEET NO. 28

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

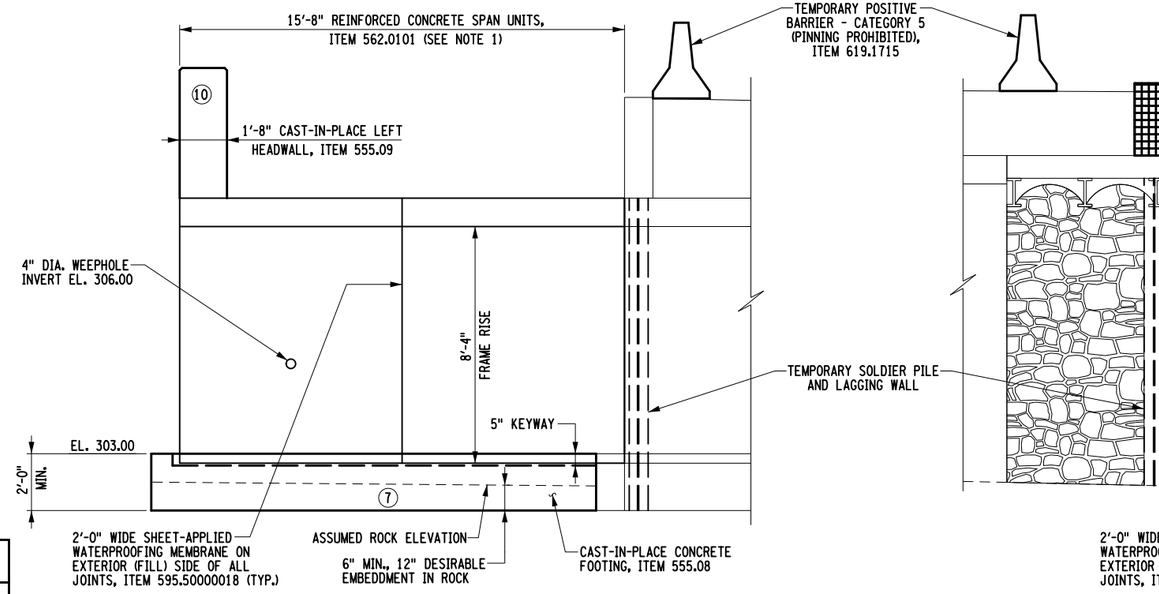
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\176109_CPB_ABT_BGN_RNF_PLN.dgn
DATE/TIME = 4/15/2021
USER = skern



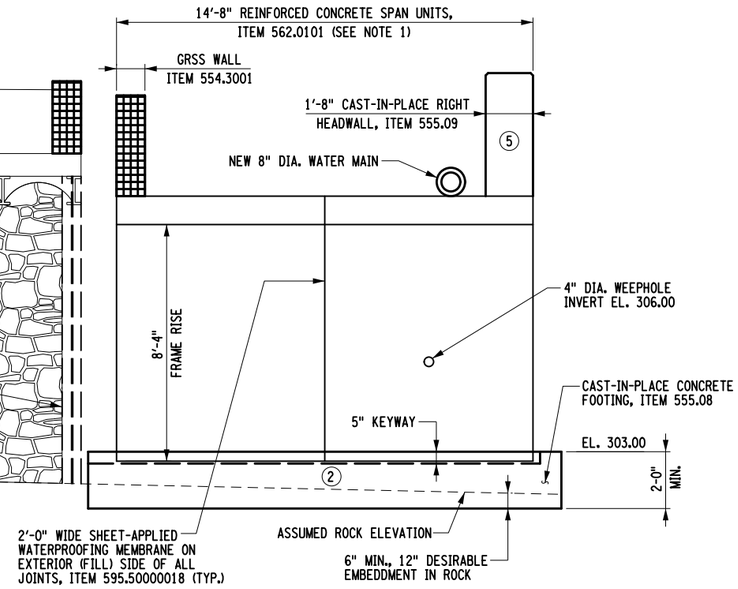
END ABUTMENT PLAN

SCALE: 3/16"=1'-0"



END ABUTMENT ELEVATION CONSTRUCTION STAGE 2

SCALE: 3/16"=1'-0"



END ABUTMENT ELEVATION CONSTRUCTION STAGE 1

SCALE: 3/16"=1'-0"

NOTES:

1. THE NUMBER AND SIZE OF REINFORCED CONCRETE SPAN UNITS ARE ARBITRARILY SHOWN. ACTUAL NUMBER AND DIMENSIONS OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.
2. ADHERE TO THE FOLLOWING PROCEDURES:

   A. IF THE ROCK SURFACE IS WITHIN 2 FEET OF EL. 301.00, ADHERE TO THE FOLLOWING:

   - IF THE ROCK SURFACE IS HIGHER, REMOVE THE ROCK SO THAT THE MINIMUM FOOTING THICKNESS OF 2 FEET CAN BE MAINTAINED.

   - IF THE ROCK SURFACE IS LOWER, PLACE ADDITIONAL CONCRETE SO THAT THE TOP OF FOOTING EL. 303.00 CAN BE MAINTAINED.

   B. IF THE ROCK SURFACE IS MORE THAN 2 FEET FROM EL. 301.00, THE RESIDENT ENGINEER WILL NOTIFY THE ENGINEER OF THIS CONDITION. THE ENGINEER WILL DETERMINE IF: THE FOUNDATION FOR THE SUBSTRUCTURE HAS TO BE REDESIGNED, ADDITIONAL FOOTING CONCRETE HAS TO BE PLACED, OR ADDITIONAL ROCK HAS TO BE EXCAVATED.
3. A FOOTING THICKNESS OF 3'-0" IS ASSUMED FOR ESTIMATING PURPOSES.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

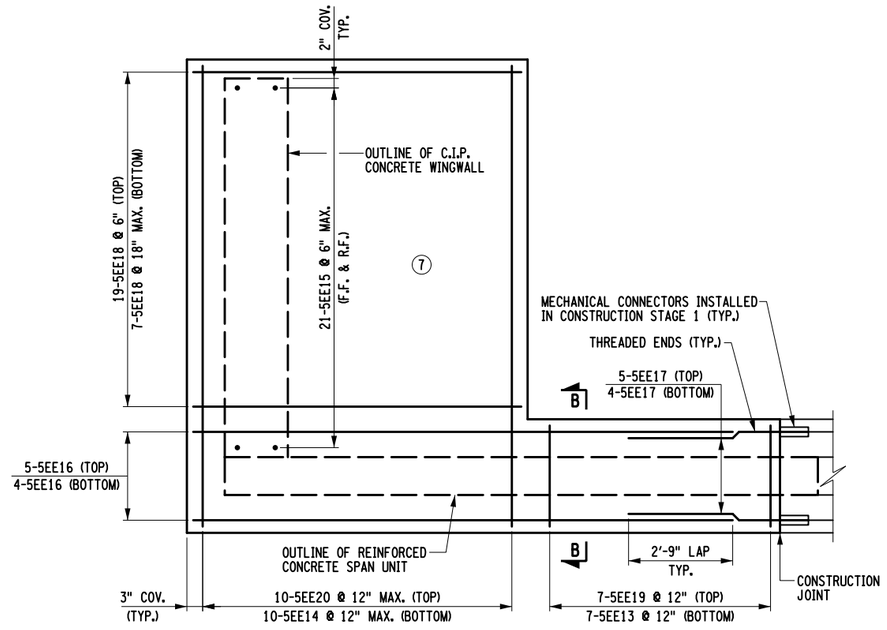
STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED PROPOSED END ABUTMENT	CONTRACT NUMBER D036296 DRAWING NO. ST-17 SHEET NO. 29

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

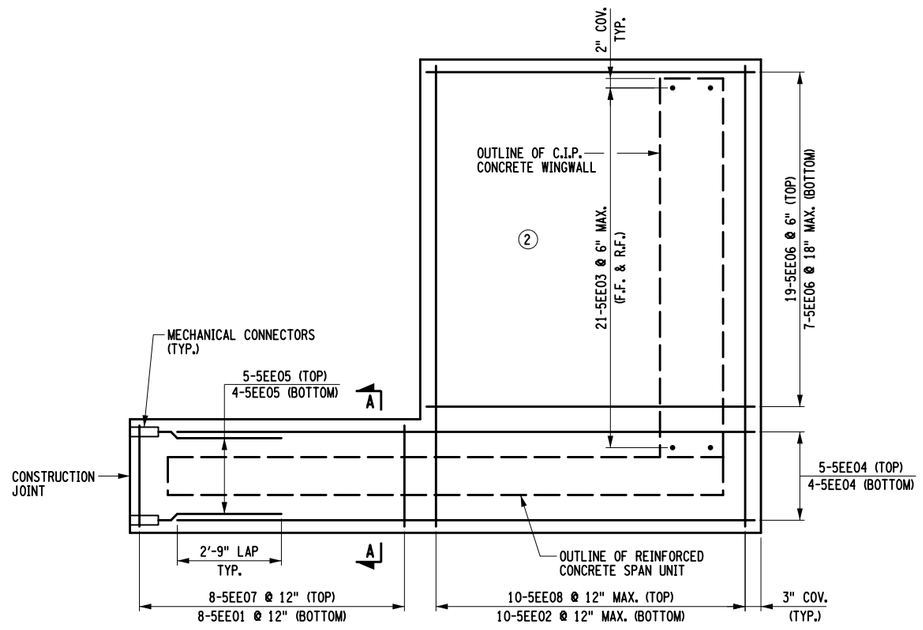
DRAFTING F. CUOCCIO | PROJECT MANAGER S. KERN
CHECK S. KERN | DESIGN S. KERN
JOB MANAGER D. THOMAS | CHECK B. WEAVER
DESIGN SUPERVISOR J. SIMKULET

FILE NAME = ...\CADD\176109_CPB_ABT_END.dgn
DATE/TIME = 4/15/2021
USER = skern



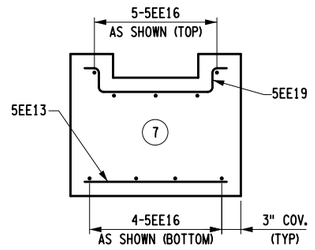
END ABUTMENT FOOTING REINFORCEMENT PLAN CONSTRUCTION STAGE 2

SCALE: 1/4"=1'-0"



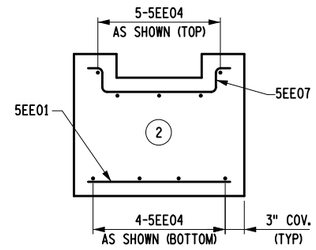
END ABUTMENT FOOTING REINFORCEMENT PLAN CONSTRUCTION STAGE 1

SCALE: 1/4"=1'-0"



SECTION B-B

SCALE: 3/8"=1'-0"



SECTION A-A

SCALE: 3/8"=1'-0"

NOTES:

1. ALL REBAR SHOWN IS TO BE PAID FOR UNDER ITEM 556.0202 EXCEPT AS NOTED.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

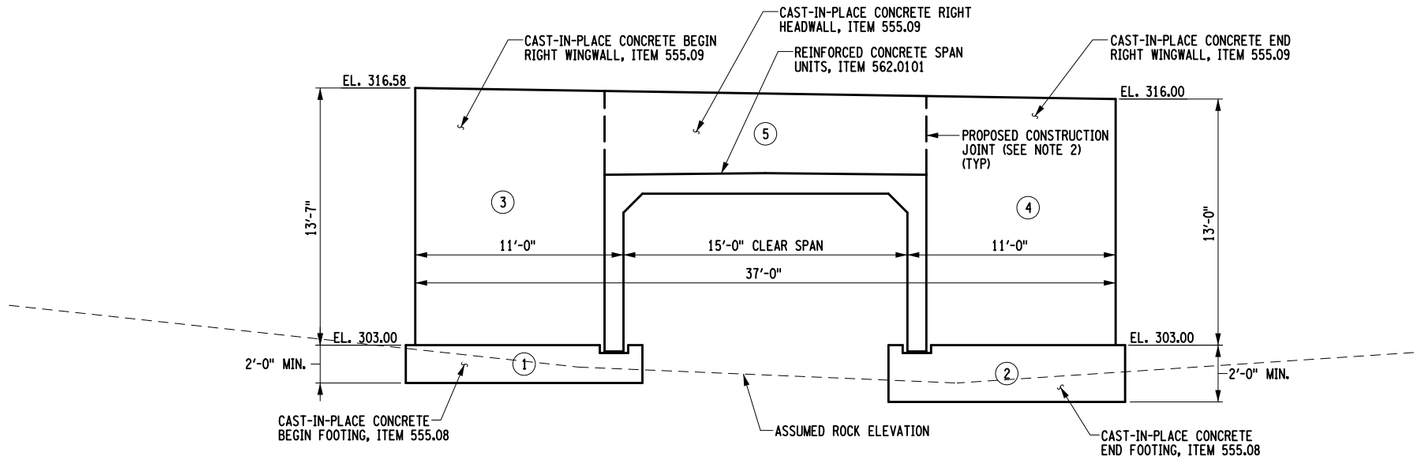
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED END ABUTMENT FOOTING REINFORCEMENT PLAN	CONTRACT NUMBER D036296 DRAWING NO. ST-18 SHEET NO. 30

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

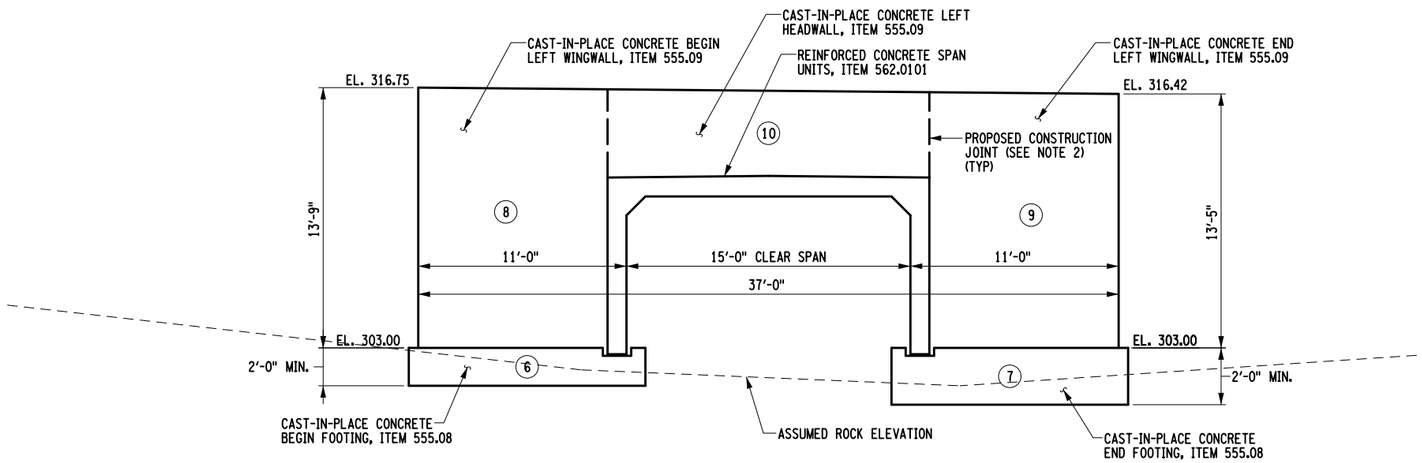
FILE NAME = ...\176109_CPB_ABT_END_RNF_PLN.dgn
DATE/TIME = 4/15/2021
USER = skern

CONCRETE TABLE		
PLACEMENT	QUANTITY	ITEM NO.
CONSTRUCTION STAGE 1		
1	15.1 CY	555.08
2	15.1 CY	555.08
3	8.3 CY	555.09
4	8.1 CY	555.09
5	4.5 CY	555.09
CONSTRUCTION STAGE 2		
6	14.7 CY	555.08
7	14.7 CY	555.08
8	8.5 CY	555.09
9	8.3 CY	555.09
10	4.8 CY	555.09



RIGHT WINGWALL ELEVATION

SCALE: 1/8"=1'-0"



LEFT WINGWALL ELEVATION

SCALE: 1/8"=1'-0"

NOTES:

1. ADHERE TO THE FOLLOWING PROCEDURES:

   A. IF THE ROCK SURFACE IS WITHIN 2 FEET OF EL. 301.00, ADHERE TO THE FOLLOWING:

   - IF THE ROCK SURFACE IS HIGHER, REMOVE THE ROCK SO THAT THE MINIMUM FOOTING THICKNESS OF 2 FEET CAN BE MAINTAINED.

   - IF THE ROCK SURFACE IS LOWER, PLACE ADDITIONAL CONCRETE SO THAT THE TOP OF FOOTING EL. 303.00 CAN BE MAINTAINED.

   B. IF THE ROCK SURFACE IS MORE THAN 2 FEET FROM EL. 301.00, THE RESIDENT ENGINEER WILL NOTIFY THE ENGINEER OF THIS CONDITION. THE ENGINEER WILL DETERMINE IF: THE FOUNDATION FOR THE SUBSTRUCTURE HAS TO BE REDESIGNED, ADDITIONAL FOOTING CONCRETE HAS TO BE PLACED, OR ADDITIONAL ROCK HAS TO BE EXCAVATED.

2. THE CONSTRUCTION JOINT BETWEEN THE WINGWALLS AND HEADWALLS MAY BE ELIMINATED IF THEY ARE POURED SIMULTANEOUSLY.

3. A FOOTING THICKNESS OF 3'-0" IS ASSUMED FOR ESTIMATING PURPOSES.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

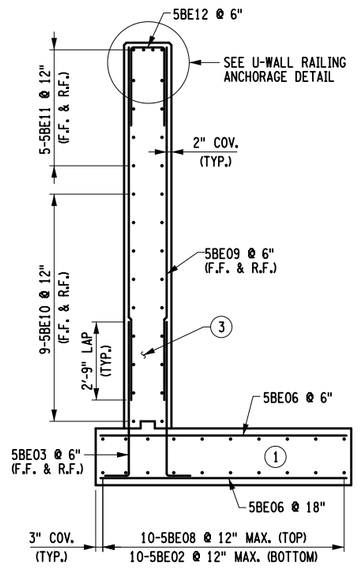
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED PROPOSED WINGWALL ELEVATIONS	CONTRACT NUMBER D036296 DRAWING NO. ST-19 SHEET NO. 31

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

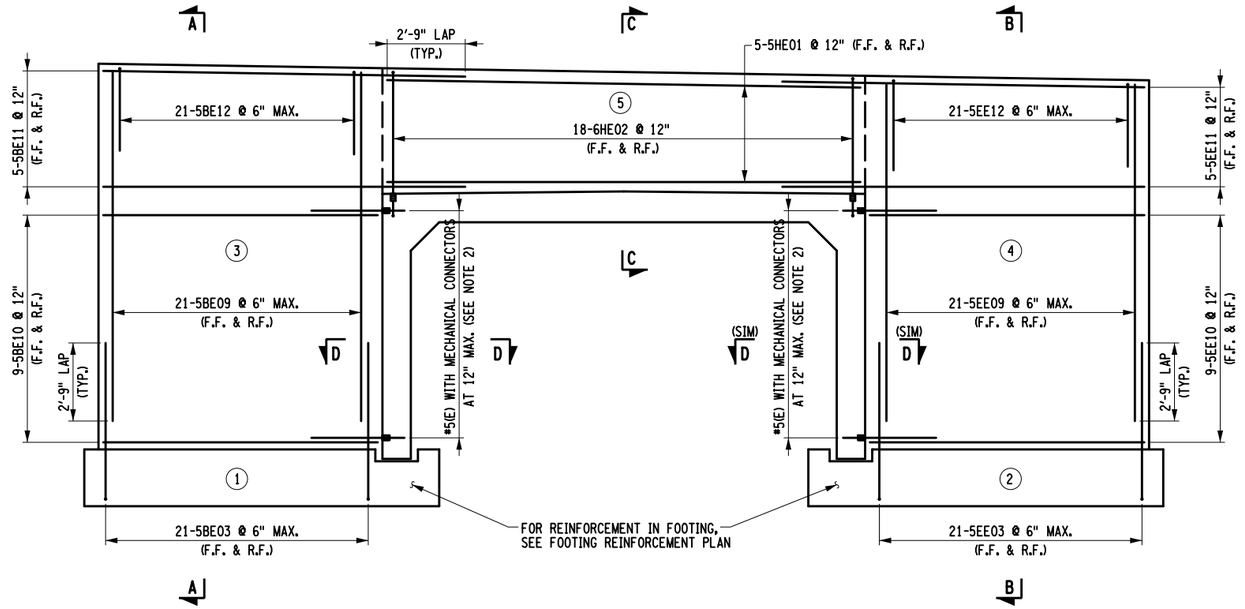
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | CHECK B. WEAVER | DESIGN S. KERN | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109.CPB.WW.ELV.dgn
DATE/TIME = 4/15/2021
USER = skern



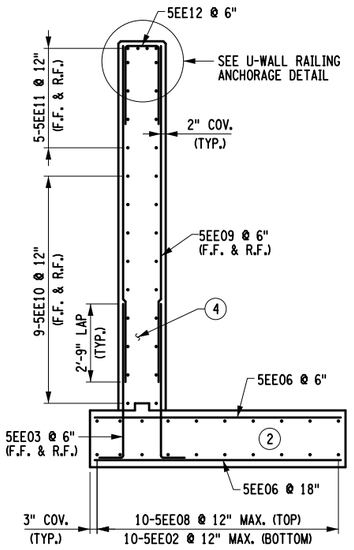
SECTION A-A

SCALE: 3/16"=1'-0"



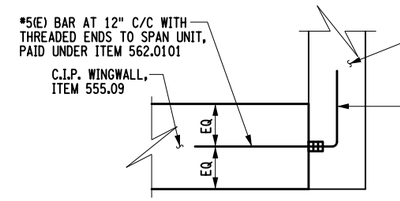
RIGHT WINGWALL REINFORCEMENT ELEVATION

SCALE: 3/16"=1'-0"



SECTION B-B

SCALE: 3/16"=1'-0"

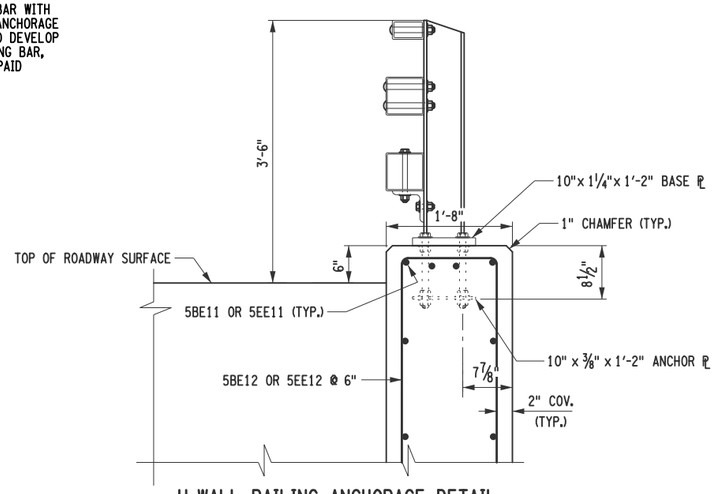


SECTION D-D

SCALE: 3/8"=1'-0"

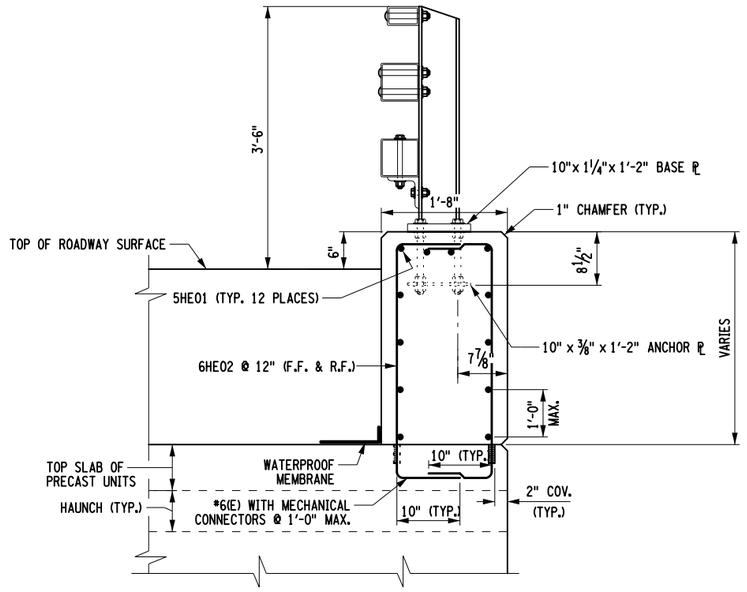
NOTES:

1. ALL REBAR SHOWN IS TO BE PAID UNDER ITEM 556.0202 EXCEPT AS NOTED.
2. PRECASTER TO INSTALL *5(E) BAR WITH MECHANICAL CONNECTOR WITH ANCHORAGE AND EMBEDMENT SUFFICIENT TO DEVELOP STRENGTH OF NO. 5 REINFORCING BAR. POSITION AT 12" CENTER-ON-CENTER. MECHANICAL CONNECTOR WITH THREADED INSERT TO BE PAID UNDER ITEM 562.0101.
3. HEADWALL REINFORCEMENT IS TO BE PAID UNDER ITEM 556.0202 EXCEPT THE *6(E) BAR WITH MECHANICAL CONNECTOR EMBEDED IN THE PRECAST CONCRETE SPAN UNITS TO BE PAID UNDER ITEM 562.0101.



U-WALL RAILING ANCHORAGE DETAIL

NOT TO SCALE



SECTION C-C

NOT TO SCALE

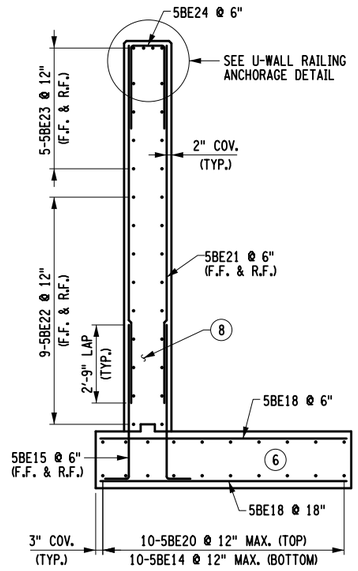
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED RIGHT WINGWALL REINFORCEMENT DETAILS	CONTRACT NUMBER D036296 DRAWING NO. ST-20 SHEET NO. 32

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

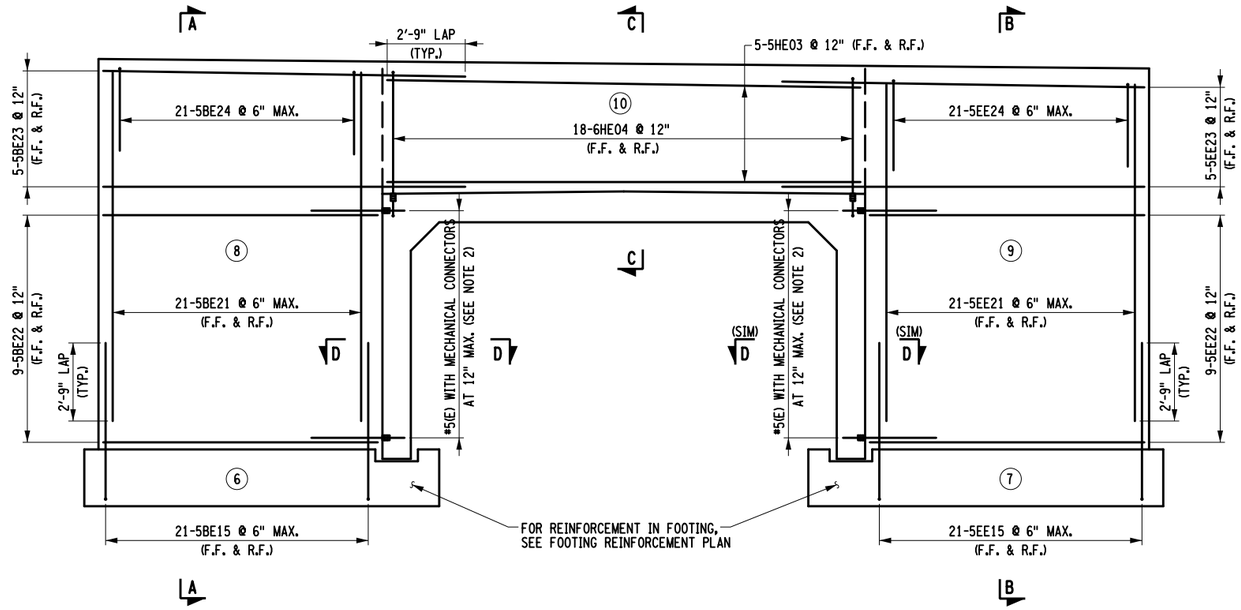
DESIGN SUPERVISOR J. SIMKULET | DRAFTING F. CUOCCIO | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\176109_CPB_WW_RT_RNF_DTL.dgn
DATE/TIME = 4/15/2021
USER = skern



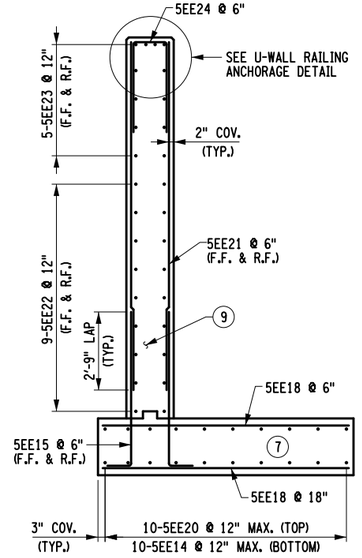
SECTION A-A

SCALE: 3/16"=1'-0"



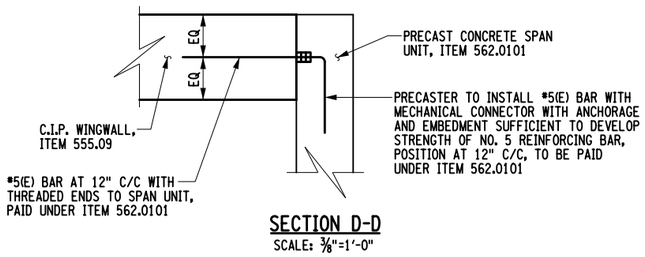
LEFT WINGWALL REINFORCEMENT ELEVATION

SCALE: 3/16"=1'-0"



SECTION B-B

SCALE: 3/16"=1'-0"

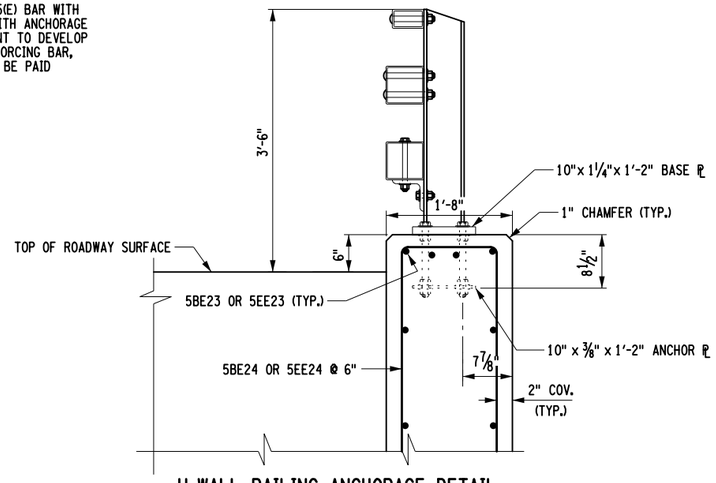


SECTION D-D

SCALE: 3/8"=1'-0"

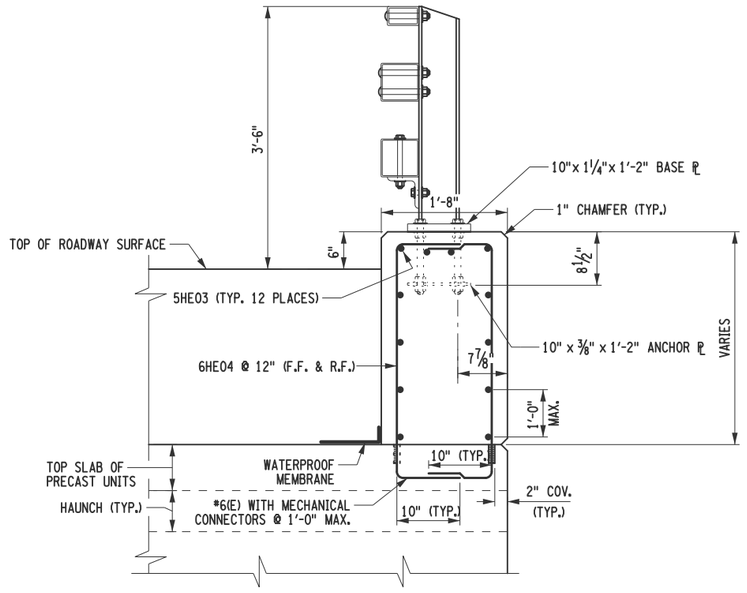
NOTES:

1. ALL REBAR SHOWN IS TO BE PAID UNDER ITEM 556.0202 EXCEPT AS NOTED.
2. PRECASTER TO INSTALL *5(E) BAR WITH MECHANICAL CONNECTOR WITH ANCHORAGE AND EMBEDMENT SUFFICIENT TO DEVELOP STRENGTH OF NO. 5 REINFORCING BAR. POSITION AT 12" CENTER-ON-CENTER. MECHANICAL CONNECTOR WITH THREADED INSERT TO BE PAID UNDER ITEM 562.0101.
3. HEADWALL REINFORCEMENT IS TO BE PAID UNDER ITEM 556.0202 EXCEPT THE *6(E) BAR WITH MECHANICAL CONNECTOR EMBEDED IN THE PRECAST CONCRETE SPAN UNITS TO BE PAID UNDER ITEM 562.0101.



U-WALL RAILING ANCHORAGE DETAIL

NOT TO SCALE



SECTION C-C

NOT TO SCALE

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

LEFT WINGWALL REINFORCEMENT DETAILS

CONTRACT NUMBER D036296

DRAWING NO. ST-21

SHEET NO. 33

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\176109_CPB_WW_LT_RNF_DTL.dgn
DATE/TIME = 4/15/2021
USER = skern

LOAD RATING (LFD)		
INVENTORY	HS	TONS
OPERATING	HS	TONS
LOAD RATING (LRFD)		
INVENTORY	HL-93	
OPERATING	HL-93	

(TABLE TO BE FILLED OUT BY E.I.C.)

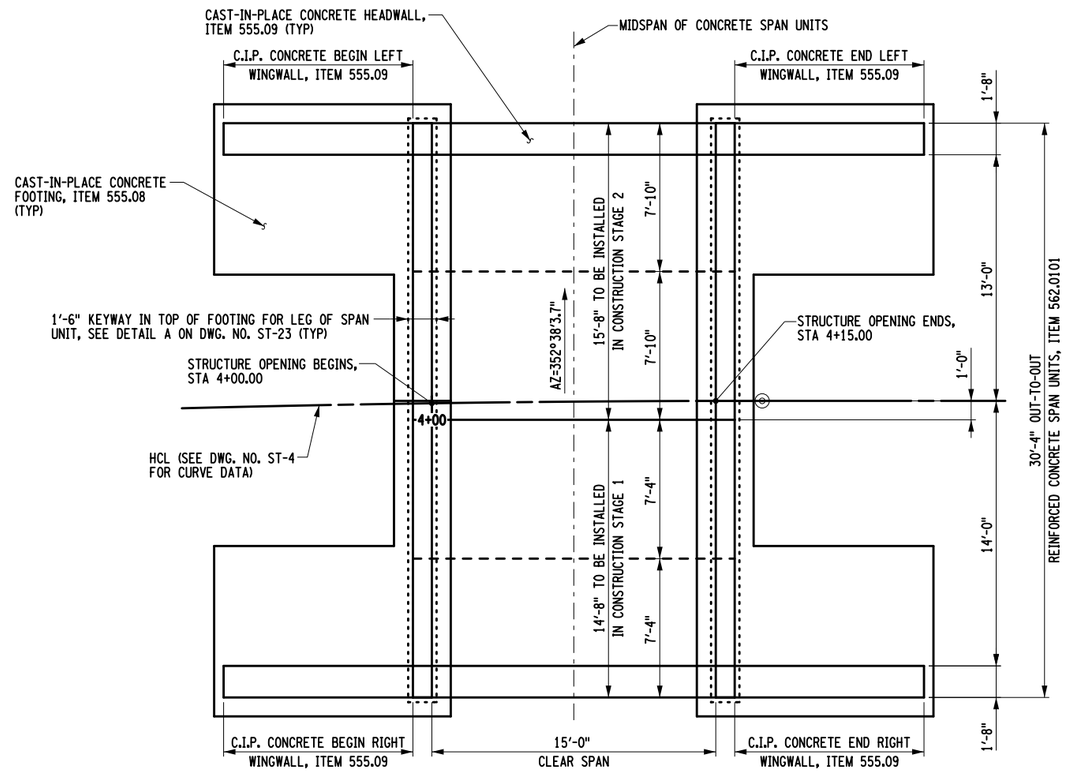
ASSUMED UNFACTORED SPAN UNIT REACTIONS		
VERTICAL kip/ft.	DC	2.53
	DW	0.16
	LL	7.69
HORIZONTAL kip/ft.	DC	0.22
	DW	0.03
	LL	0.92
	EH	2.29

DOES NOT INCLUDE SELF WEIGHT OF FOOTING

THREE SIDED STRUCTURE DESIGN DATA	
CLEAR SPAN, ft.	15
CLEAR RISE, ft.	8
* MIN. FILL HEIGHT, ft.	3.54
* MAX. FILL HEIGHT, ft.	4.28
SKEW TO ROADWAY, DEG	0
LIVE LOAD	HL-93
RAILING/BARRIER TEST LOAD	TL-4

* BASED ON ASSUMED SLAB THICKNESS OF 1'-0". FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS

GEOTECHNICAL DESIGN DATA						
FRICTION ANGLE OF SOIL RETAINED BY THE WALL (DEGREES)	FRICTION ANGLE OF FOUNDATION SOIL (DEGREES)	TOTAL SOIL UNIT WEIGHT (lb/ft^3)	MAXIMUM SERVICE LIMIT STATE BEARING RESISTANCE (lb/ft^2)	NORMAL COEFFICIENT OF FRICTION FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR SLIDING	STRENGTH LIMIT STATE RESISTANCE FACTOR FOR BEARING
35	35	125	160	0.65	0.8	0.45



PROPOSED FRAMING PLAN

SCALE: 1/8"=1'-0"

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

NOTES:

1. THE REINFORCED CONCRETE UNIT LAYOUT SHOWN IS PROPOSED. ACTUAL NUMBER AND WIDTH OF CONCRETE UNITS SHALL BE IN ACCORDANCE WITH CONTRACTOR'S APPROVED DESIGN CALCULATIONS AND SHOP DRAWINGS.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

THREE SIDED STRUCTURE FRAMING PLAN

CONTRACT NUMBER D036296

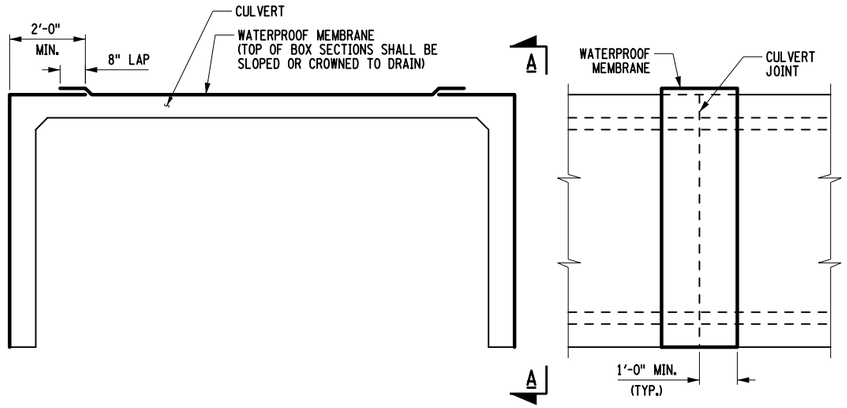
DRAWING NO. ST-22
SHEET NO. 34

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK S. KERN | DRAFTING F. CUOCCIO | PROJECT MANAGER S. KERN | CHECK B. WEAVER

FILE NAME = ...\CADD\1761@9_CPB_FRM_PLN.dgn
DATE/TIME = 4/15/2021
USER = skern



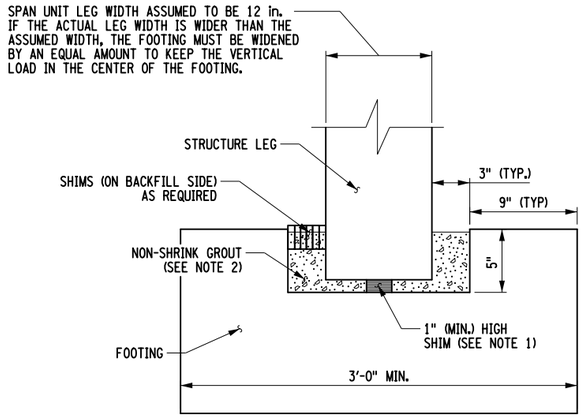
CULVERT SECTION

SECTION A-A

NOTE:
WHEN SPLICES ARE REQUIRED IN THE WATERPROOF MEMBRANE, LOCATE AS SHOWN.

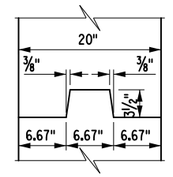
WATERPROOF MEMBRANE SPLICE DETAIL

NOT TO SCALE



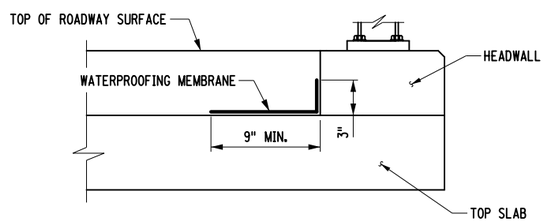
DETAIL A

NOT TO SCALE



KEYWAY BETWEEN WINGWALL AND FOOTING

NOT TO SCALE



WATERPROOFING MEMBRANE AT HEADWALL

NOT TO SCALE

NOTES:

1. ADDITIONAL SHIMS ARE ALLOWED AT THE CONTRACTORS OPTION.
2. GROUT SHALL MEET THE REQUIREMENTS OF §701-05 OR §701-06.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

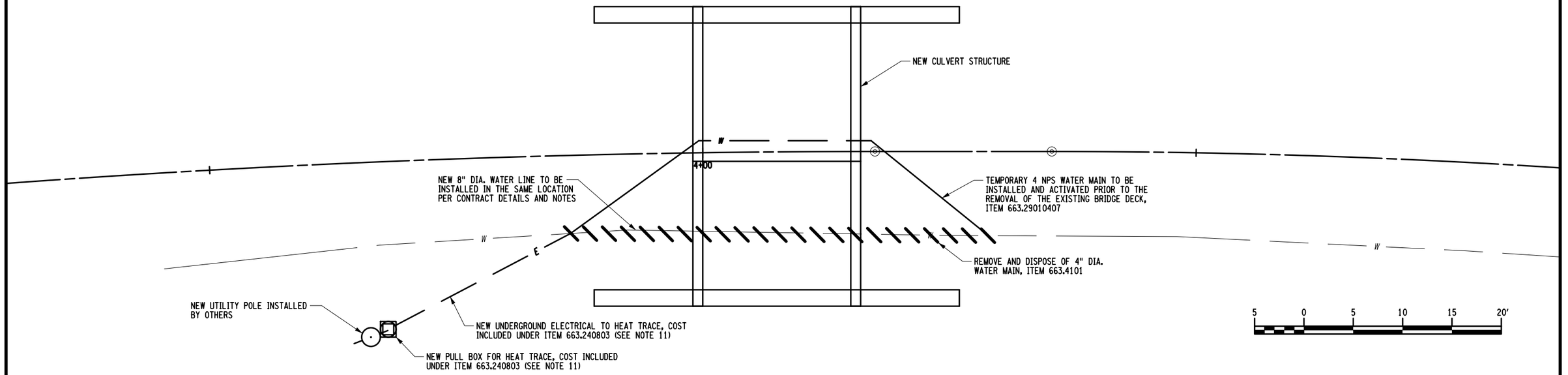
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED MISCELLANEOUS DETAILS	CONTRACT NUMBER D036296 DRAWING NO. ST-23 SHEET NO. 35

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761.09_CPB_MIS_DTL.dgn
DATE/TIME = 4/15/2021
USER = skern



NOTES:

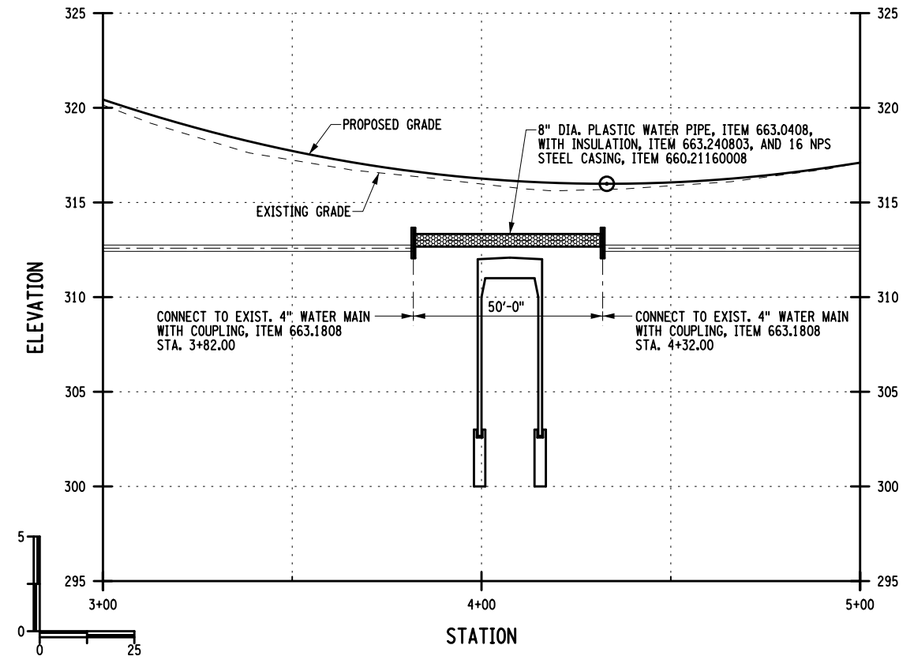
1. THE EXISTING WATER MAIN CONSISTS OF A 4" DIA. PIPE. ALL MATERIALS AND PROCEDURES EMPLOYED BY THE CONTRACTOR TO TAP, REMOVE AND/OR DISPOSE OF SECTIONS OF THIS PIPE SHALL COMPLY WITH CURRENT NYSDOT STANDARD SPECIFICATIONS AND ALL APPLICABLE ENVIRONMENTAL STANDARDS AND REGULATIONS.
2. ALL PORTIONS OF THE EXISTING WATER DISTRIBUTION SYSTEM THAT ARE NOT IMPACTED BY THIS PROJECT SHALL REMAIN IN SERVICE AT ALL TIMES.
3. THE CONTRACTOR SHALL LOCATE ALL EXISTING WATER MAINS WITHIN THE PROJECT LIMITS IN ORDER TO VERIFY THEIR LOCATIONS, SIZES, GRADES AND CONFIGURATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS WATER ITEMS.
4. THE PROPOSED WATER MAIN SHALL BE PRESSURE TESTED AND DISINFECTED PRIOR TO THEIR CONNECTION TO THE EXISTING WATER DISTRIBUTION SYSTEM. HYDROSTATIC PRESSURE AND LEAKAGE TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION (AWWA). DISINFECTION AND TESTING SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C651 (STANDARD FOR DISINFECTING WATER MAINS).
5. AFTER THE WATER MAIN HAS BEEN INSTALLED, TESTED AND DISINFECTED TO THE SATISFACTION OF THE ENGINEER AND THE TOWN OF TICONDEROGA, THE CONTRACTOR MAY CONNECT TO THE EXISTING WATER DISTRIBUTION SYSTEM PER THE FOLLOWING CRITERIA:

A. ALL CONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM THAT REQUIRE A SHUT-DOWN OF SERVICE SHALL BE SCHEDULED WITH THE TOWN AT LEAST 1 WEEK IN ADVANCE. NO INTERRUPTION OF WATER SERVICE SHALL EXTEND BEYOND THE SCHEDULED ALLOTTED TIME FRAME.

B. THE CONTRACTOR SHALL HAVE A CONTINGENCY PLAN IN PLACE, PRIOR TO THE INITIAL CONNECTIONS TO THE EXISTING WATER DISTRIBUTION SYSTEM, IN THE EVENT THAT A SHUT-DOWN OF WATER SERVICE EXTENDS BEYOND THE ALLOTTED TIME FRAME. THIS CONTINGENCY PLAN SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND CLEARLY INDICATE THE MEANS, METHODS AND SEQUENCE OF OPERATIONS THAT WOULD BE NECESSARY IN THIS EVENT. THE ENGINEER AND THE TOWN OF TICONDEROGA SHALL APPROVE THIS PLAN PRIOR TO THE START OF CONNECTION OPERATIONS. THE COST OF THE CONFINGENCY PLAN AND ITS IMPLEMENTATION, IF NECESSARY, SHALL BE INCLUDED UNDER THE VARIOUS PROPOSED WATER MAIN ITEMS.

C. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) WEEKS NOTICE TO THE ENGINEER AND THE TOWN OF TICONDEROGA WATER DEPARTMENT PRIOR TO ANY WORK ON WATER MAINS.

6. THE COST FOR REMOVAL AND DISPOSAL OF THE EXISTING WATER MAIN, INSULATION AND ANY APPURTANCES, LOCATED WITHIN THE PROJECT LIMITS, SHALL BE INCLUDED UNDER ITEM 663.4104. THESE COSTS SHALL INCLUDE, BUT ARE NOT LIMITED TO, ALL LABOR, MATERIALS, EQUIPMENT, AND INSURANCES DEEMED NECESSARY TO SATISFACTORILY COMPLETE THE WORK.
7. REFER TO NYSDOT STANDARD SHEETS 663-01 THROUGH 663-07 FOR ADDITIONAL NOTES AND DETAILS.
8. THE LOCATIONS AND ELEVATIONS OF THE EXISTING WATER MAIN SHOWN IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INSTALLATION OF THE PROPOSED WATER MAIN.
9. DUE TO UNEXPECTED FIELD CONDITIONS, THE CONTRACTOR MAY PROPOSE ALTERNATE ROUTE(S) FOR THE NEW WATER MAIN. ANY PROPOSAL FOR CHANGES MUST BE MADE IN WRITING AND APPROVED BY THE E.I.C. PRIOR TO CONSTRUCTION.
10. THE PROPOSED UNDERGROUND WATER MAIN SHALL BE INSULATED AT ALL LOCATIONS WHERE COVER IS LESS THAN 5'-0", AS MEASURED FROM THE TOP OF THE PIPE AND A.O.B.E. (ITEM 663.240803).
11. A HEAT TRACE SYSTEM SHALL BE INSTALLED WITH THE NEW WATER LINE WITHIN THE LIMITS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER THE HEAT TRACE SUPPLIER AND SPECIFICATIONS FOR APPROVAL PRIOR TO PURCHASING. ALL COST ASSOCIATED WITH THE HEAT TRACE, ELECTRICAL LINE, AND PULL BOXES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PIPE INSULATION, ITEM 663.240803.



PROPOSED WATER MIAN PROFILE

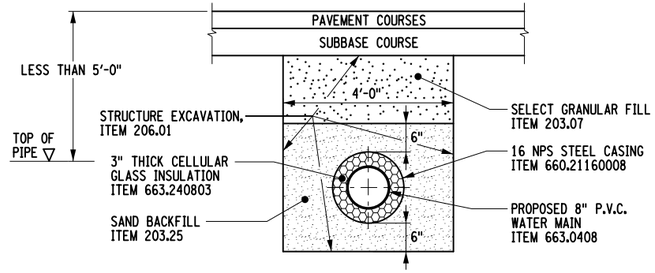
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED WATER MAIN PLAN AND PROFILE	CONTRACT NUMBER D036296 DRAWING NO. ST-24 SHEET NO. 36

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

PROJECT MANAGER S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
DESIGN S. KERN
CHECK B. WEAVER
JOB MANAGER D. THOMAS
DESIGN SUPERVISOR J. SIMKULET

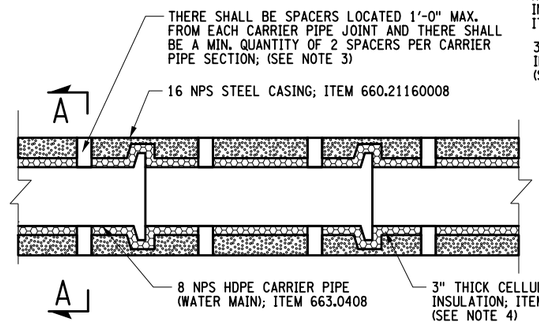
FILE NAME = ...\CADD\76109_CPB_WTR_PLN.dgn
DATE/TIME = 4/15/2021
USER = skern



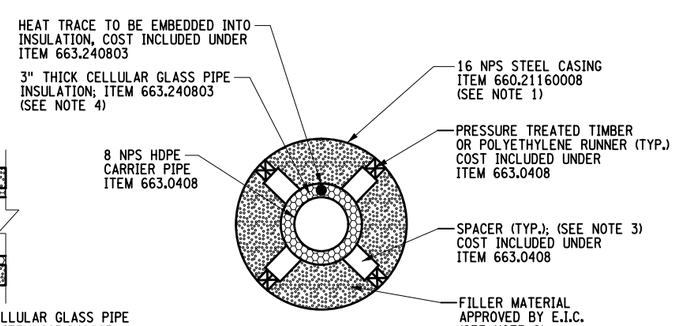
WATER MAIN INSULATION DETAIL

WATER MAIN INSULATION NOTES:

1. THE PROPOSED WATER MAIN SHALL BE INSULATED AT ALL LOCATIONS WHERE COVER IS LESS THAN 5'-0", AS MEASURED FROM THE TOP OP THE PIPE, AND A.O.B.E.
2. INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. ALL COSTS FOR THE INSULATION OF THE PROPOSED WATER MAIN SHALL BE COVERED UNDER ITEM 663.240803. THIS INCLUDES, BUT IS NOT LIMITED TO, LABOR, EQUIPMENT, INSULATION, COVERING, TAPE, ETC., EXCEPT EXCAVATION AND BACKFILL SHALL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.



LONGITUDINAL SECTION



SECTION A-A

WATER MAIN CASING DETAIL

STEEL CASING NOTES:

1. CASING SHALL BE A SCHEDULE 40 STEEL PIPE; CASING PIPE SECTIONS SHALL BE BUTT WELDED TOGETHER; MIN. INSIDE DIAMETER OF CASING PIPE SHALL BE 6" TO 8" GREATER THAN THE OUTSIDE DIAMETER OF THE CARRIER PIPE'S BELLS.
2. ANNULAR SPACE SHALL BE FILLED WITH GROUT, SAND OR APPROVED MATERIAL A.O.B.E.; COST INCLUDED UNDER ITEM 663.0408.
3. EACH SECTION OF HDPE CARRIER PIPE WITHIN THE CASING SHALL CONTAIN A MINIMUM OF TWO (2) SPACERS; ALL CARRIER PIPE SECTIONS WITHIN THE CASING SHALL HAVE RESTRAINED JOINTS. COST INCLUDED UNDER ITEM 663.0408.
4. PIPE INSULATION SHALL BE TRIMMED AND REMOVED AS NECESSARY TO ACCOMMODATE SPACERS. COST INCLUDED UNDER ITEM 663.240803.

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

WATER MAIN DETAILS

CONTRACT NUMBER D036296

DRAWING NO. ST-25

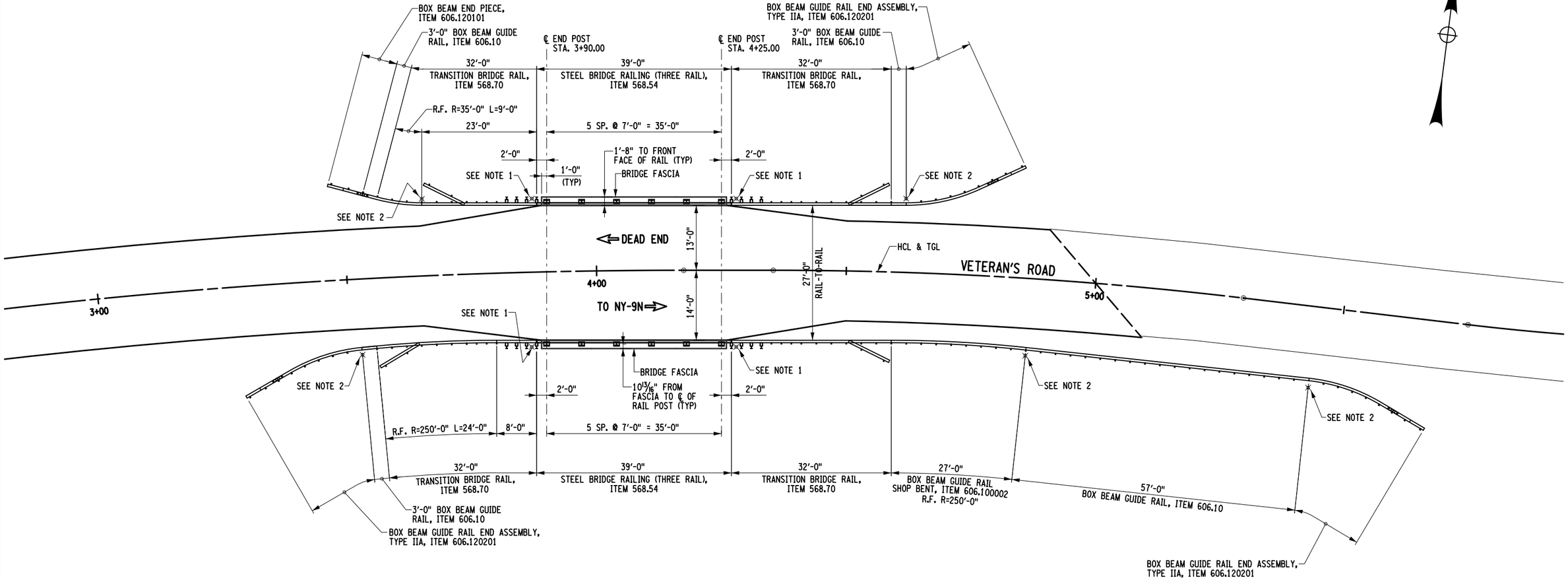
SHEET NO. 37

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\76109_CPB_WTR_DTL.dgn
DATE/TIME = 4/15/2021
USER = skern



PROPOSED RAILING PLAN

SCALE: 1"=20'

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
LICENSED PROFESSIONAL ENGINEER
No. 131

NOTES:

1. COMMON 2.0 LB/FT STEEL POST, ITEM 646.32, WITH ONE LARGE SUPPLEMENTARY SNOWPLOWING MARKER SINGLE UNIT PANEL ON BOTH SIDES OF POST (PAID AS TWO PANELS FOR EACH POST LOCATION, ITEM 646.23). TYPICAL FOR BEHIND ALL FOUR TRANSITION RAILINGS BETWEEN FIRST AND SECOND POST AND WHERE SHOWN ON PLANS.

2. COMMON 2.0 LB/FT STEEL POST, ITEM 646.32, WITH ONE LARGE SNOWPLOWING MARKER SINGLE UNIT PANEL ON THE POST SIDE FACING ONCOMING TRAFFIC, ITEM 646.23. TYPICAL AT POINT OF TANGENCY AS SHOWN ON PLANS.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

PROPOSED RAILING PLAN

CONTRACT NUMBER D036296

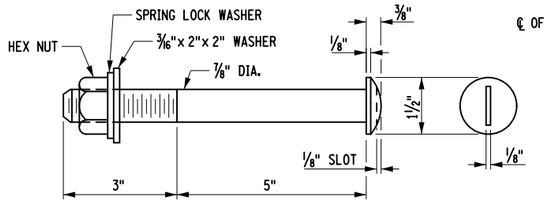
DRAWING NO. ST-26
SHEET NO. 38

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

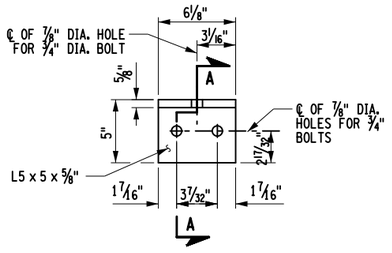
TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET
JOB MANAGER D. THOMAS
DESIGN S. KERN
CHECK S. KERN
DRAFTING F. CUOCCIO
CHECK B. WEAVER
PROJECT MANAGER S. KERN

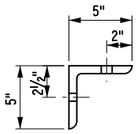
FILE NAME = ...\CADD\1761.09.CPB.RLG.PLN.P.dgn
DATE/TIME = 4/15/2021
USER = skern



SLOTTED ROUND HEAD BOLT
NOT TO SCALE

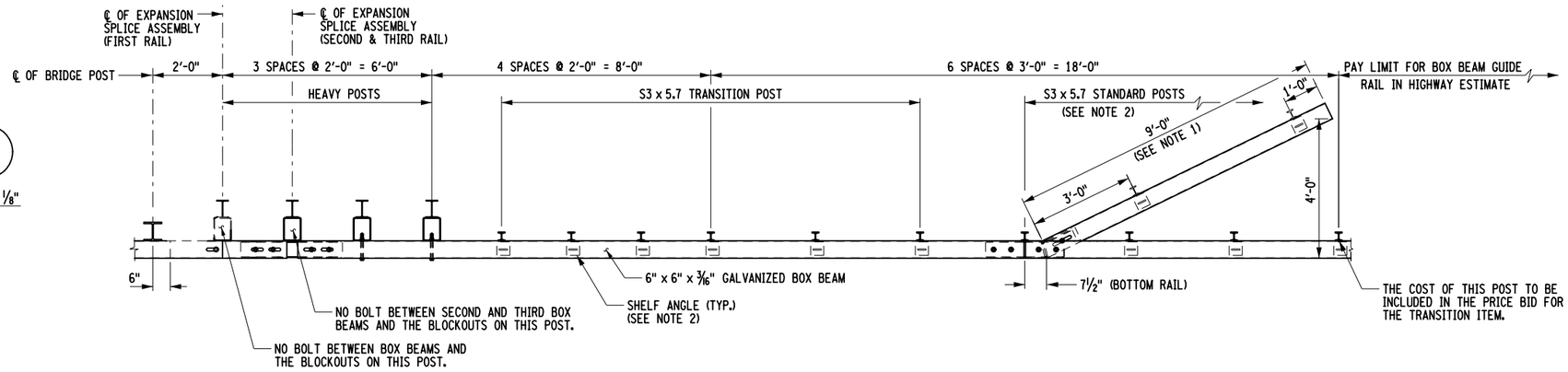


PLAN

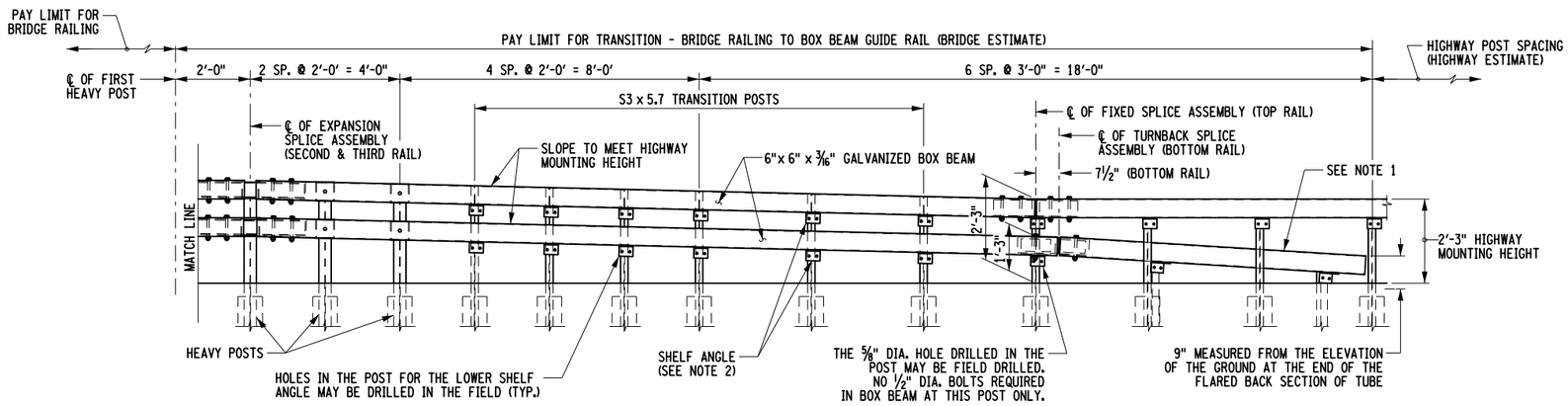


SECTION A-A

RAILING ANGLE DETAILS
NOT TO SCALE

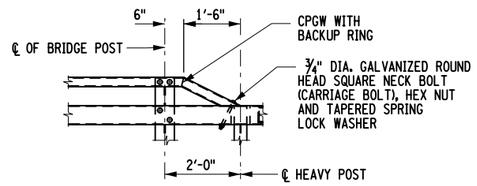


PLAN

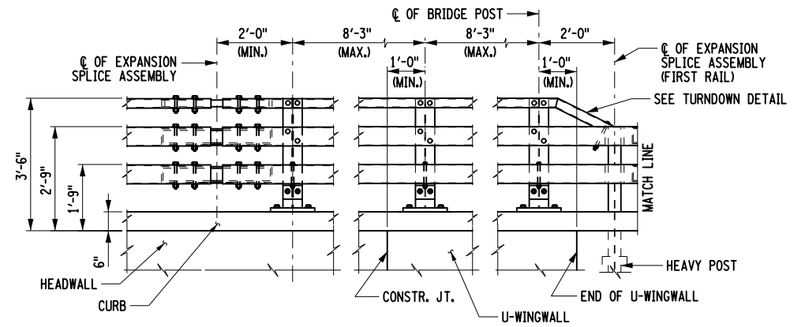


ELEVATION

STANDARD TRANSITION BRIDGE RAILING
NOT TO SCALE



TURNDOWN DETAIL
NOT TO SCALE



ELEVATION MATCH THREE-RAIL WITH CURB
NOT TO SCALE

NOTES:

1. THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.
2. SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

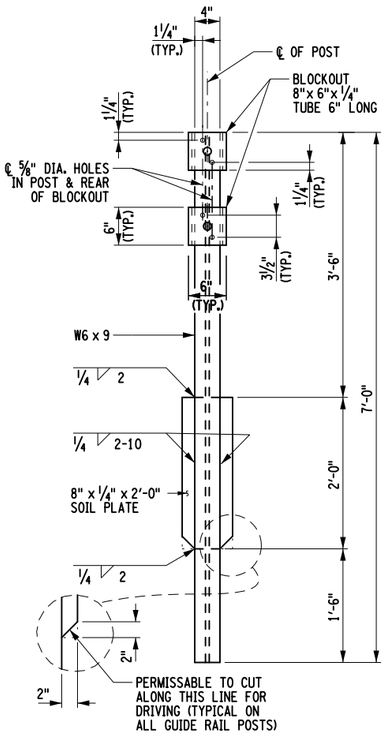
STATE OF NEW YORK — GREENMAN PEDERSEN INC — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED RAILING DETAILS (1 OF 3)	CONTRACT NUMBER D036296 DRAWING NO. ST-27 SHEET NO. 39

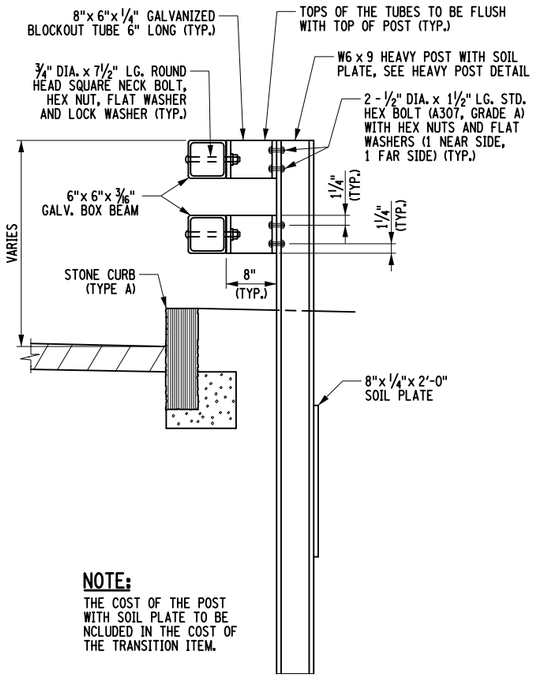
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109_CPB_RLG_DTL-1.dgn
DATE/TIME = 4/15/2021
USER = skern

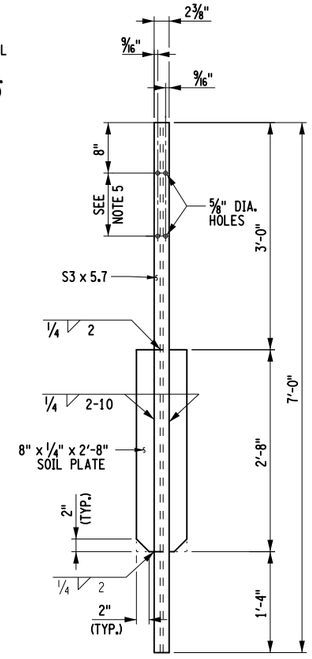


HEAVY POST DETAIL
NOT TO SCALE

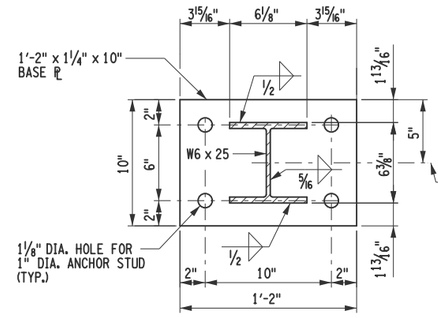


NOTE:
THE COST OF THE POST WITH SOIL PLATE TO BE NCLUDED IN THE COST OF THE TRANSITION ITEM.

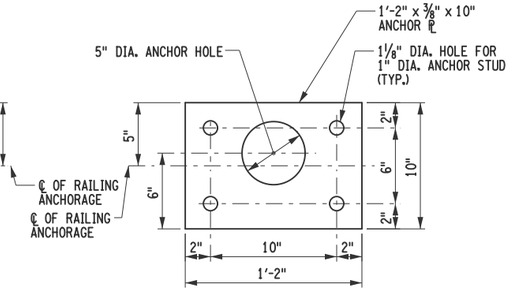
HEAVY POST ELEVATION
NOT TO SCALE



TRANSITION POST DETAIL
NOT TO SCALE



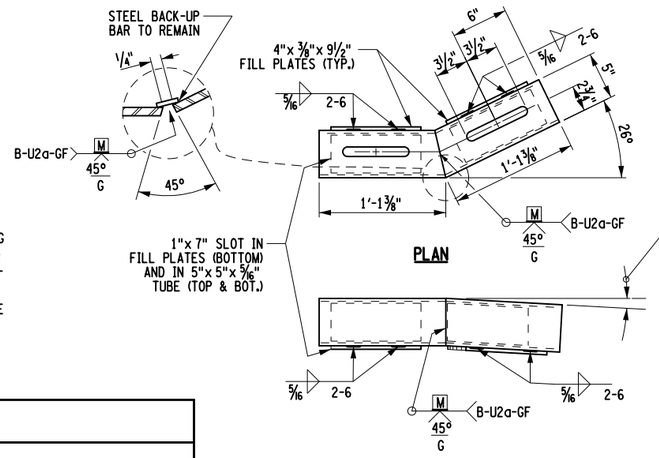
SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

NOTES:

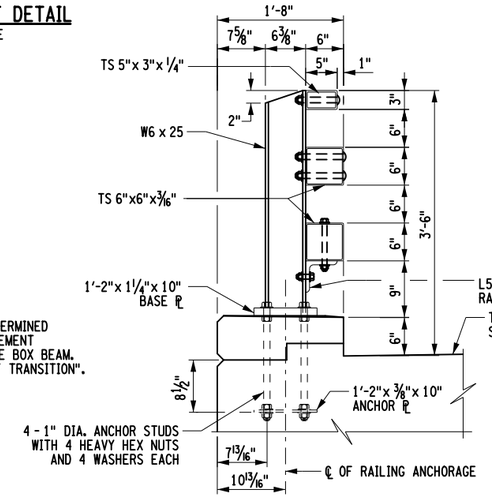
1. ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
2. PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
3. BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB).
4. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
5. HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD. IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.



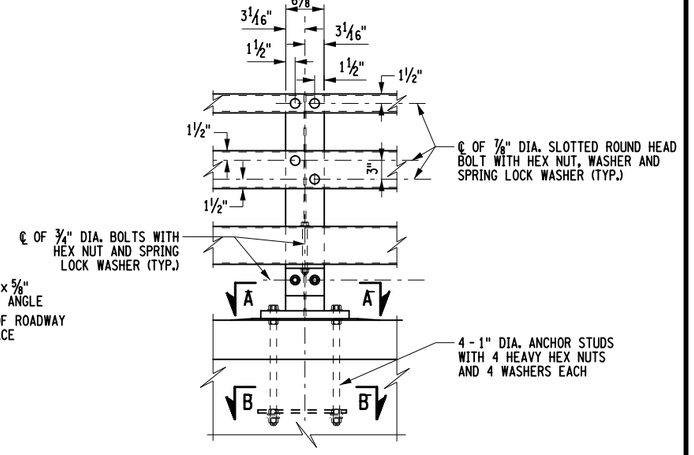
PLAN

ELEVATION

SPLICE TUBE DETAILS FOR TURN BACK
NOT TO SCALE



SECTION



ELEVATION

STEEL BRIDGE RAILING (THREE-RAIL) WITH CURB
NOT TO SCALE

AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

STATE OF NEW YORK — GREENMAN PEDERSEN INC. — LICENSED PROFESSIONAL ENGINEER — No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

RAILING DETAILS (2 OF 3)

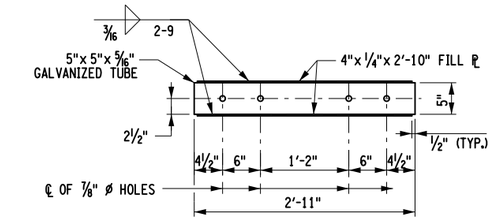
CONTRACT NUMBER D036296

DRAWING NO. ST-28
SHEET NO. 40

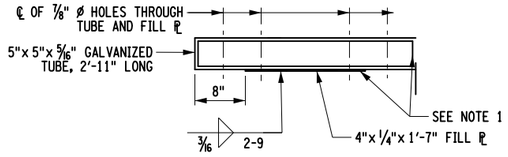
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\176109.CPB.RLG.DTL-2.dgn
DATE/TIME = 4/15/2021
USER = skern

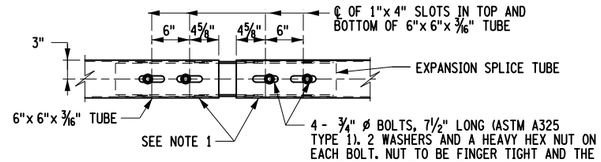


PLAN

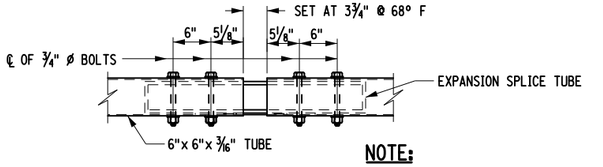


ELEVATION

EXPANSION SPLICE TUBE
SCALE: NONE



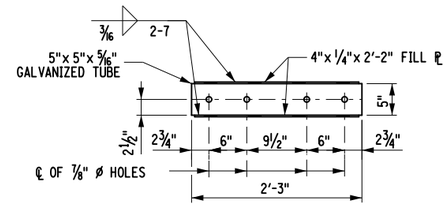
PLAN



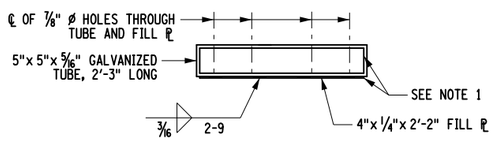
ELEVATION

NOTE:
THE 5 1/8" DIMENSION IS SET AT 68°F.

EXPANSION SPLICE TUBE ASSEMBLY
SCALE: NONE

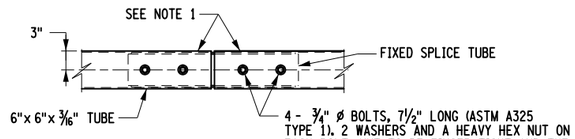


PLAN

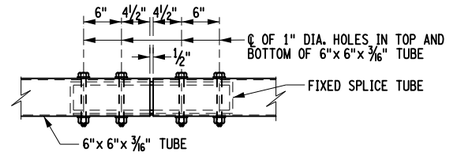


ELEVATION

FIXED SPLICE TUBE
SCALE: NONE

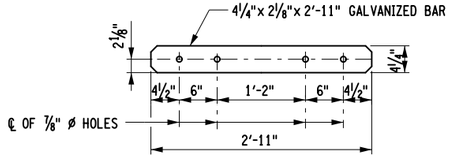


PLAN

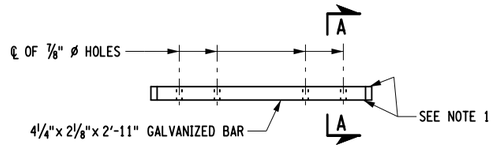


ELEVATION

FIXED SPLICE TUBE ASSEMBLY
SCALE: NONE

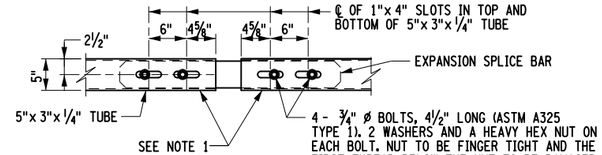


PLAN

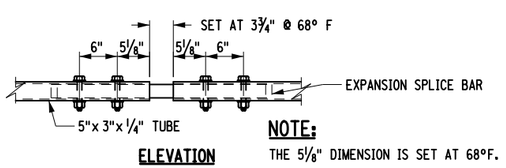


ELEVATION

EXPANSION SPLICE BAR
SCALE: NONE



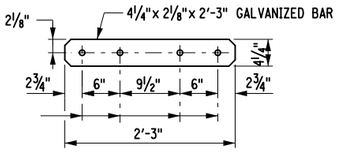
PLAN



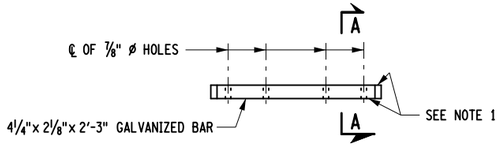
ELEVATION

NOTE:
THE 5 1/8" DIMENSION IS SET AT 68°F.

EXPANSION SPLICE BAR ASSEMBLY
SCALE: NONE

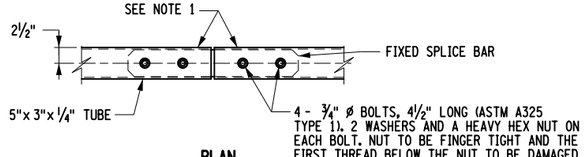


PLAN

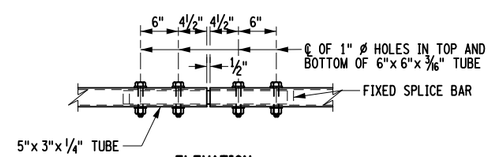


ELEVATION

FIXED SPLICE BAR
SCALE: NONE

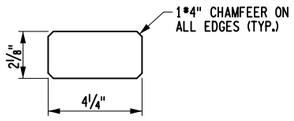


PLAN



ELEVATION

FIXED SPLICE BAR ASSEMBLY
SCALE: NONE



SECTION A-A
SCALE: NONE

NOTES:

1. PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

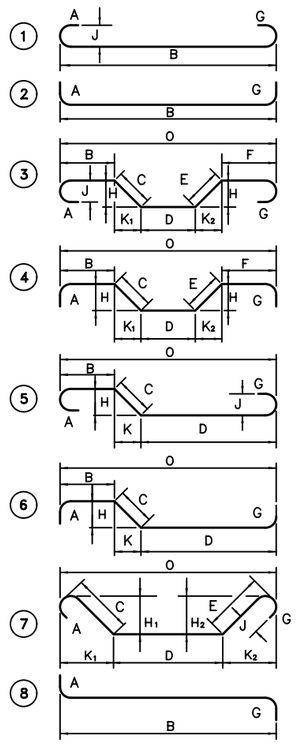
AFFIX SEAL: GREENMAN - PEDERSEN, INC ON: APRIL 15, 2021	ALTERED BY: ON:

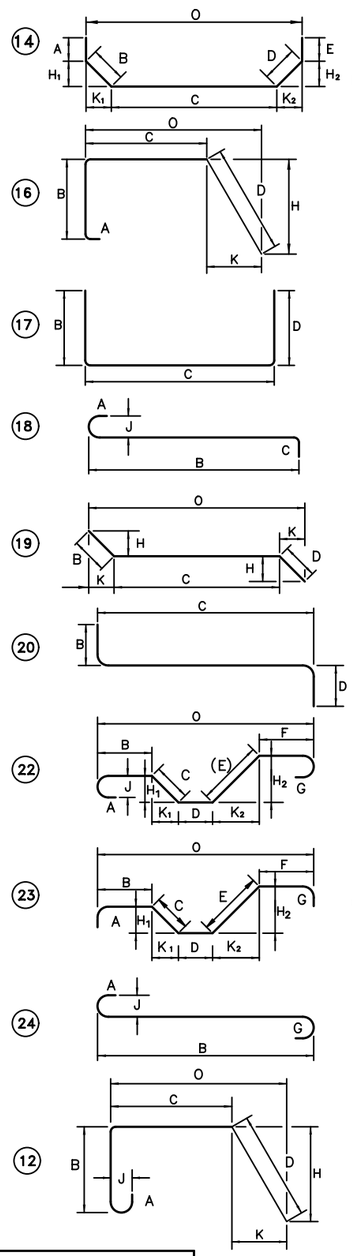
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	VETERAN'S ROAD CULVERT REPLACEMENT OVER FIVE MILE CREEK TOWN OF TICONDEROGA COUNTY: ESSEX REGION: 1	PIN 1761.09	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED RAILING DETAILS (3 OF 3)	CONTRACT NUMBER D036296 DRAWING NO. ST-29 SHEET NO. 41

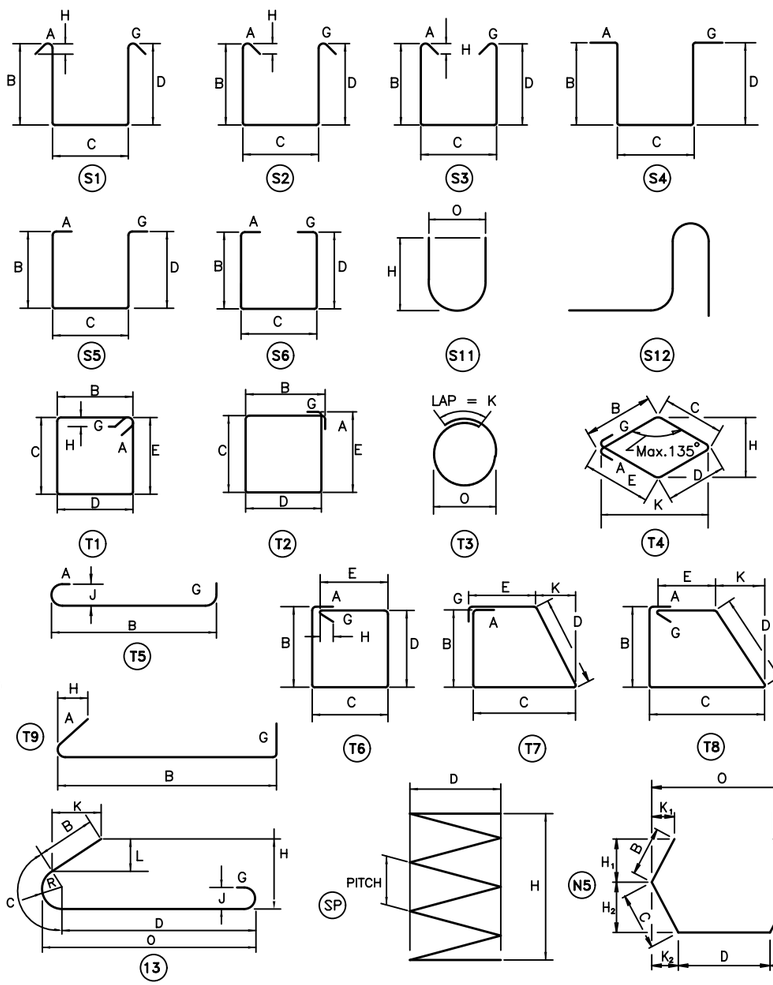
GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS — TICONDEROGA — TOWN OF TICONDEROGA

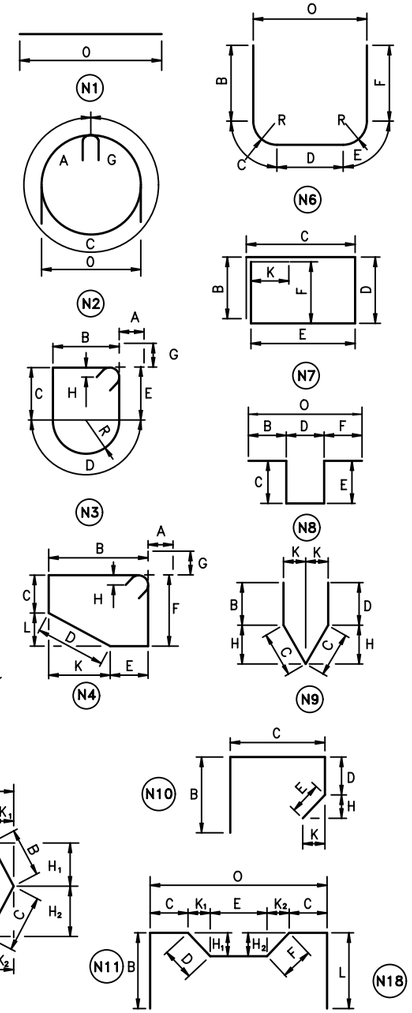
DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

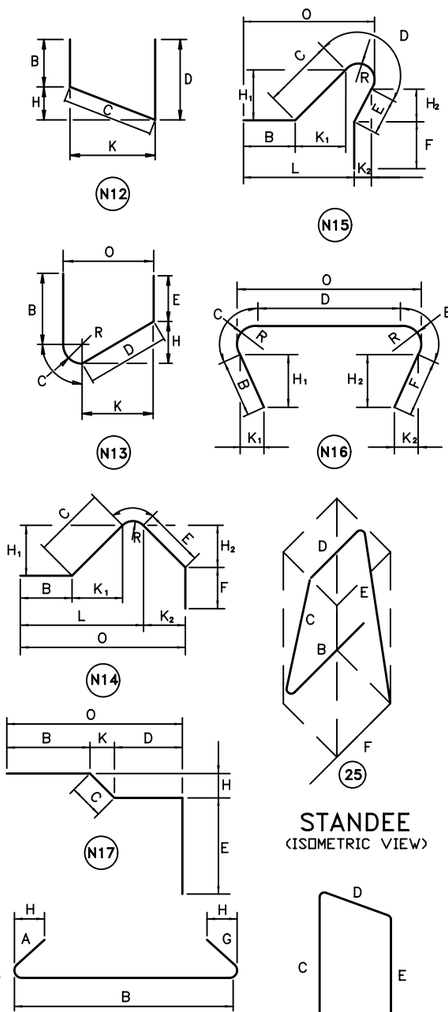
FILE NAME = ...\CADD\1761.09_CPB_RLG_DTL-3.dgn
DATE/TIME = 4/15/2021
USER = skern











STEEL REINFORCEMENT NOTES:

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET–STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A615–06a. ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED P.I.N. DIAMETER "D" OF BENDS HOOKS AND OTHER STANDARD PRACTICES SEE ACI–318–05 & THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICES" (MSP).
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED ON THE BARLIST.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. DIMENSIONS "A","G" AND "J" ARE STANDARD BENDING DIMENSIONS PER EACH SIZE OF BAR. REFER TO C.R.S.I. – M.S.P. FOR DETAILS.
6. WHERE SLOPE DIFFERS FROM 45°, DIMENSIONS "H" AND "K" MUST BE SHOWN ON BARLIST.
7. ▲ - INDICATES BARS TO CUT TO FIT IN THE FIELD.

STEEL REINFORCEMENT NOTES CONT.:

8. FIELD CUT ENDS OF REINFORCING STEEL SHALL BE REPAIRED AS PER SUBSECTION 556–3 OF THE N.Y.S. STANDARD SPECIFICATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 556.0202.
9. ITEM FOR REINFORCING STEEL IS AS FOLLOWS:
   556.0202 – EPOXY–COATED BAR REINFORCEMENT FOR STRUCTURES.
10. BAR MARK PROCEDURE IS AS FOLLOWS:

    5BE03
    - SEQUENTIAL BAR NUMBER.
    - INDICATES BAR COATING (E=EPOXY–COATED)
    - INDICATES STRUCTURE TYPE AND/OR LOCATION (B=BEGIN ABT, E=END ABT, H=HEADWALL)
    - INDICATES BAR SIZE (IE. 5,6,7,ETC.)
11. BAR MARKS SHOULD NORMALLY INCREASE IN SEQUENTIAL NUMBER AND SIZE FROM SMALLEST TO LARGEST AT EACH LOCATION.
12. "*" – INDICATES BAR MARK IS OUT OF SEQUENCE.

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK · GREENMAN PEDERSEN INC. · LICENSED PROFESSIONAL ENGINEER · No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09 | BRIDGES | CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR BENDS

CONTRACT NUMBER D036296

DRAWING NO. ST-30
SHEET NO. 42

GPI GREENMAN–PEDERSEN, INC. CONSULTING ENGINEERS

TICONDEROGA TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SINKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761@9_CPB_BAR.dgn
DATE/TIME = 4/15/2021
USER = skern

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN ABUTMENT FOOTING (STAGE 1) - PLACEMENT 1																					
5BE01	8	5	2'-6"	STR	20.9																
5BE02	10	5	12'-0"	STR	125.2																
5BE03	42	5	8'-4"	2	365.1	10"	7'-6"					0"									
5BE04	9	5	15'-2"	STR	142.4																
5BE05	9	5	4'-0"	STR	37.5																WITH MECHANICAL CONNECTOR
5BE06	26	5	8'-6"	STR	230.5																
5BE07	8	5	3'-4"	N8	27.8		3"	5"	2'-0"	5"	3"								2'-6"		
5BE08	10	5	12'-10"	N8	133.9		3"	5"	2'-0"	5"	9'-9"								12'-0"		
TOTAL FOR PLACEMENT 1: 1,084 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END ABUTMENT FOOTING (STAGE 1) - PLACEMENT 2																					
5EE01	8	5	2'-6"	STR	20.9																
5EE02	10	5	12'-0"	STR	125.2																
5EE03	42	5	8'-4"	2	365.1	10"	7'-6"					0"									
5EE04	9	5	15'-2"	STR	142.4																
5EE05	9	5	4'-0"	STR	37.5																WITH MECHANICAL CONNECTOR
5EE06	26	5	8'-6"	STR	230.5																
5EE07	8	5	3'-4"	N8	27.8		3"	5"	2'-0"	5"	3"								2'-6"		
5EE08	10	5	12'-10"	N8	133.9		3"	5"	2'-0"	5"	9'-9"								12'-0"		
TOTAL FOR PLACEMENT 2: 1,084 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN RIGHT WINGWALL - PLACEMENT 3																					
5BE09	42	5	12'-3"	STR	536.6																
5BE10	18	5	9'-8"	STR	181.5																
5BE11	12	5	12'-9"	STR	159.6																
5BE12	21	5	7'-4"	17	160.6		3'-0"	1'-4"	3'-0"												
TOTAL FOR PLACEMENT 3: 1,039 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END RIGHT WINGWALL - PLACEMENT 4																					
5EF09	42	5	11'-10"	STR	518.4																
5EE10	18	5	9'-8"	STR	181.5																
5EE11	12	5	12'-9"	STR	159.6																
5EE12	21	5	7'-4"	17	160.6		3'-0"	1'-4"	3'-0"												
TOTAL FOR PLACEMENT 4: 1,021 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
RIGHT HEADWALL - PLACEMENT 5																					
5HE01	12	5	16'-8"	STR	208.6																
6HE02	36	6	VARIES	17	281.6		10"	VARIES	0"												THREADED INSERT INTO MECHANICAL CONNECTOR MAX. "C" LENGTH = 4'-6", MIN. "C" LENGTH = 4'-3" (SEE NOTE 2)
TOTAL FOR PLACEMENT 5: 491 LBS.																					

NOTES:

1. ALL REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE EPOXY-COATED AND PAID UNDER ITEM 556.0202.
2. THE THREADED INSERTS (6HE02) ARE SIZED ASSUMING A 12" TOP SLAB ON THE PRECAST UNITS. THE REBAR LENGTH IS TO BE MODIFIED TO ACCOUNT FOR THE ACTUAL TOP SLAB DEPTH IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED SHOP DRAWINGS.

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC.
LICENSED PROFESSIONAL ENGINEER
No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR LIST
(1 OF 2)

CONTRACT NUMBER
D036296

DRAWING NO. ST-31
SHEET NO. 43

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761.09_CPB_BAR-1.dgn
DATE/TIME = 4/15/2021
USER = skern

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN ABUTMENT FOOTING (STAGE 2) - PLACEMENT 6																					
5BE13	7	5	2'-6"	STR	18.3																
5BE14	10	5	12'-0"	STR	125.2																
5BE15	42	5	8'-4"	2	365.1	10"	7'-6"					0"									
5BE16	9	5	14'-2"	STR	133.0																
5BE17	9	5	4'-0"	STR	37.5																THREADED INSERT INTO MECHANICAL CONNECTOR
5BE18	26	5	8'-6"	STR	230.5																
5BE19	7	5	3'-4"	N8	24.3		3"	5"	2'-0"	5"	3"								2'-6"		
5BE20	10	5	12'-10"	N8	133.9		3"	5"	2'-0"	5"	9'-9"								12'-0"		
TOTAL FOR PLACEMENT 6: 1,068 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END ABUTMENT FOOTING (STAGE 2) - PLACEMENT 7																					
5EE13	7	5	2'-6"	STR	18.3																
5EE14	10	5	12'-0"	STR	125.2																
5EE15	42	5	8'-4"	2	365.1	10"	7'-6"					0"									
5EE16	9	5	14'-2"	STR	133.0																
5EE17	9	5	4'-0"	STR	37.5																THREADED INSERT INTO MECHANICAL CONNECTOR
5EE18	26	5	8'-6"	STR	230.5																
5EE19	7	5	3'-4"	N8	24.3		3"	5"	2'-0"	5"	3"								2'-6"		
5EE20	10	5	12'-10"	N8	133.9		3"	5"	2'-0"	5"	9'-9"								12'-0"		
TOTAL FOR PLACEMENT 7: 1,068 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
BEGIN LEFT WINGWALL - PLACEMENT 8																					
5BE21	42	5	12'-5"	STR	543.9																
5BE22	18	5	9'-8"	STR	181.5																
5BE23	12	5	12'-9"	STR	159.6																
5BE24	21	5	7'-4"	17	160.6		3'-0"	1'-4"	3'-0"												
TOTAL FOR PLACEMENT 8: 1,046 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
END LEFT WINGWALL - PLACEMENT 9																					
5EF21	42	5	12'-3"	STR	536.6																
5EE22	18	5	9'-8"	STR	181.5																
5EE23	12	5	12'-9"	STR	159.6																
5EE24	21	5	7'-4"	17	160.6		3'-0"	1'-4"	3'-0"												
TOTAL FOR PLACEMENT 9: 1,039 LBS.																					

MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H/H1	H2	J	K/K1	K2	L	O	R	REMARKS
LEFT HEADWALL - PLACEMENT 10																					
5HE03	12	5	16'-8"	STR	208.6																
6HE04	36	6	VARIES	17	295.1		10"	VARIES	0"												THREADED INSERT INTO MECHANICAL CONNECTOR MAX. "C" LENGTH = 4'-8", MIN. "C" LENGTH = 4'-7" (SEE NOTE 2)
TOTAL FOR PLACEMENT 10: 504 LBS.																					

NOTES:

1. ALL REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL BE EPOXY-COATED AND PAID UNDER ITEM 556.0202.
2. THE THREADED INSERTS (6HE04) ARE SIZED ASSUMING A 12" TOP SLAB ON THE PRECAST UNITS. THE REBAR LENGTH IS TO BE MODIFIED TO ACCOUNT FOR THE ACTUAL TOP SLAB DEPTH IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED SHOP DRAWINGS.

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK
TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

BAR LIST
(2 OF 2)

CONTRACT NUMBER
D036296

DRAWING NO. ST-32
SHEET NO. 44

GPI GREENMAN-PEDERSEN, INC. CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ...\CADD\1761.09_CPB_BAR-2.dgn
DATE/TIME = 4/15/2021
USER = skern

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1	
202.19	REMOVAL OF SUBSTRUCTURES	CY	110	
203.03	EMBANKMENT IN PLACE	CY	420	
203.07	SELECT GRANULAR FILL	CY	25	
203.21	SELECT STRUCTURAL FILL	CY	410	
203.25	SAND BACKFILL	CY	15	
206.01	STRUCTURE EXCAVATION	CY	870	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	10	
207.20	GEOTEXTILE BEDDING	SY	90	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	90	
209.13	SILT FENCE - TEMPORARY	LF	300	
304.12	SUBBASE COURSE, TYPE 2	CY	120	
402.128304	12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	54	
402.198904	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	30	
402.378904	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	44	
407.0103	STRAIGHT TACK COAT	GAL	37	
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	385	
552.2001	HOLES IN EARTH FOR SOLDIER PILE AND LAGGING WALL	LF	105	
552.2101	ROCK SOCKETS FOR SOLDIER PILE AND LAGGING WALL	LF	40	
552.2201	SOLDIER PILES FOR SOLDIER PILE AND LAGGING WALL	LF	140	
552.230201	UNTREATED WOOD LAGGING FOR SOLDIER PILE AND LAGGING WALL	SF	1,040	
553.020001	COFFERDAM (TYPE 2)	EA	2	
554.3001	GEOSYNTHETIC REINFORCED SOIL SYSTEM WALL - WELDED WIRE FORM	SF	140	
555.08	FOOTING CONCRETE, CLASS HP	CY	63	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	45	
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	9,500	
562.0101	REINFORCED CONCRETE SPAN UNITS	SY	60	
568.54	STEEL BRIDGE RAILING (THREE RAIL)	LF	78	
568.70	TRANSITION BRIDGE RAILING	LF	128	
586.0201	DRILLING AND GROUTING BOLTS OR REINFORCEMENT BARS	EA	48	
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	244	
606.10	BOX BEAM GUIDE RAILING	LF	66	
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT)	LF	27	
606.120101	BOX BEAM END PIECE	EA	1	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EA	3	
606.73	REMOVING AND DISPOSING BOX BEAM GUIDE RAILING	LF	355	
610.1402	TOPSOIL -ROADSIDE	CY	10	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	65	
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.1715	TEMPORRY POSITIVE BARRIER - CATEGORY 5 (PINNING PROHIBITED)	LF	500	
620.04	STONE FILLING (MEDIUM)	CY	80	
625.01	SURVEY OPERATIONS	LS	1	
627.50140008	CUTTING PAVEMENT	LF	60	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	4	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1,000	
646.23	LARGE SNOWPLOWING DELINEATOR	EA	13	
646.32	STEEL POST, 2.0 LB/FT	EA	9	
660.21160008	FURNISH AND INSTALL STEEL CASING 16 NPS (OUTSIDE DIAMETER)	LF	50	
663.0408	PLASTIC WATER PIPE, 8"	LF	50	
663.1808	BOLTED SLEEVE TYPE COUPLING, 8"	EA	2	
663.240803	INSULATION FOR BURIED WATER PIPE (8" WITH 3 IN THICK INSULATION)	LF	50	
663.29010407	TEMPORARY WATER MAIN - 04 NPS	LF	50	
663.4104	REMOVE AND DISPOSE OF EXISTING WATER MAIN, 4"	LF	50	
697.03	FIELD CHANGE PAYMENT	DC	24,000	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION	LS	1	

AFFIX SEAL: GREENMAN - PEDERSEN, INC
ON: APRIL 15, 2021

ALTERED BY:
ON:

STATE OF NEW YORK
GREENMAN PEDERSEN INC
LICENSED PROFESSIONAL ENGINEER
No. 131

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

VETERAN'S ROAD CULVERT REPLACEMENT
OVER FIVE MILE CREEK

TOWN OF TICONDEROGA
COUNTY: ESSEX REGION: 1

PIN 1761.09

BRIDGES

CULVERTS

ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED

ESTIMATE OF QUANTITIES

CONTRACT NUMBER
D036296

DRAWING NO. EQQ-1
SHEET NO. 45

GPI GREENMAN-PEDERSEN, INC.
CONSULTING ENGINEERS

TOWN OF TICONDEROGA

DESIGN SUPERVISOR J. SIMKULET | JOB MANAGER D. THOMAS | DESIGN S. KERN | CHECK B. WEAVER | DRAFTING F. CUOCCIO | CHECK S. KERN | PROJECT MANAGER S. KERN

FILE NAME = ..\CADD\176109.CPB.EQQ.dgn
DATE/TIME = 4/15/2021
USER = skern