REVIEWER NOTES:

1. ALIGNMENT: THE PROPOSED BRIDGE IS SHOWN TO BE LOCATED ON THE WEST SIDE OF THE EXISTING MILL STREET FOOTPRINT. THIS ALIGNMENT WAS SHIFTED TO THE WEST TO STAY AWAY FROM OVERHEAD UTILITIES (SEE #4 BELOW) AS MUCH AS POSSIBLE AND TO MAKE THE GUARDRAIL APPROACH (SEE #5 BELOW) ON PLEASANT STREET LESS CHALLENGING.

2. TOWN HAS EXPRESSED DESIRE FOR 8'-0" PEDESTRIAN BRIDGE WIDTH (RAIL TO RAIL)

3. UTILITIES: OVERHEAD WIRES ARE IN CLOSE PROXIMITY TO THE BRIDGE RUNNING ALONG THE EAST SIDE OF MILL STREET AND THE NORTH SIDE OF PLEASANT STREET. IT IS ANTICIPATED THAT THE PROJECT CAN BE CONSTRUCTED WITHOUT THE NEED TO REMOVE/RELOCATE THE WIRES OR POLES, HOWEVER, IT IS EXPECTED THAT THE ELECTRIC WIRES WILL NEED TO BE DE-ENGERIZED DURING CRANE OPERATIONS FOR SELECT DEMOLITION AND ERECTION ACTIVITIES. THIS WILL BE FURTHER INVESTIGATED DURING THE NEXT DESIGN PHASE.

4. GUARDRAIL/ENDPOSTS: THE PROPOSED TRANSITION BETWEEN THE PLEASANT ST. GUARDRAIL AND THE BRIDGE WILL BE A CONCRETE ENDPOST DIRECTLY ABUTTING THE END OF THE BRIDGE. THE GUARDRAIL WILL NOT MEET MASH STANDARDS DUE TO EXISTING CONDITION CONSTRAINTS.

5. TRAFFIC: THE BRIDGE IS VERY CLOSE TO PLEASANT STREET. IT IS ANTICIPATED THAT PLEASANT STREET WILL BE REDUCED TO TWO-WAY, ONE-LANE TRAFFIC TO GIVE THE CONTRACTOR FLEXIBILITY TO PERFORM WORK EFFICIENTLY.

6. HYDRAULIC OPENING: THE STRUCTURAL DEPTH OF THE PROPOSED PEDESTRIAN BRIDGE IS SIGNIFICANTLY LESS THAN THE EXISTING HIGHWAY BRIDGE. THE PROFILE IS A CREST VERTICAL CURVE WHICH WILL ALSO RAISE THE BOTTOM CHORD.

7. ROW IMPACT FOR CRANE SWING: IN ORDER TO DEMOLISH THE EXISTING BRIDGE AND ERECT THE NEW BRIDGE, THE CRANE MAY NEED TO SWING OVER PRIVATE PROPERTY. IN ADDITION, EXISTING VEGETATION ON THE PRIVATE PROPERTY MAY NEED TO BE REMOVED AND/OR TRIMMED. TEMPORARY EASEMENTS MAY BE REQUIRED FOR CRANE OPERATION.

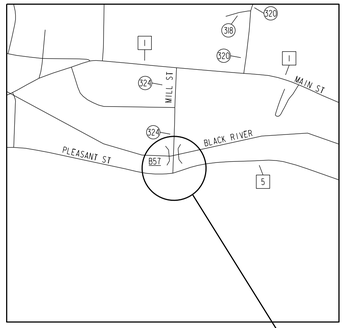
8. BRIDGE DECK MATERIAL, CONCRETE OR WOOD, IS TO BE DETERMINED.

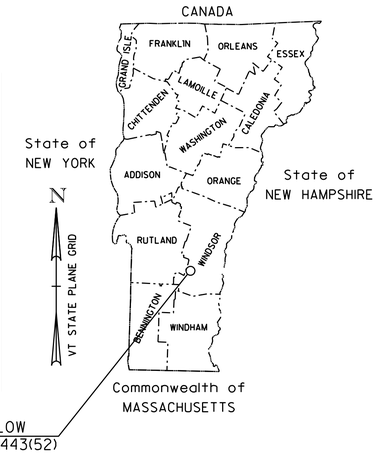
9. FINAL COATING OF STEEL TRUSS IS TO BE DETERMINED.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2
SURVEYED BY : VTRANS SURVEYED DATE : 1/9/2017
DATUM VERTICAL NAVD88 HORIZONTAL NAD83

STATE OF VERMONT
AGENCY OF TRANSPORTATION





PROPOSED IMPROVEMENT
BRIDGE PROJECT

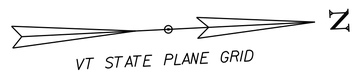
TOWN OF LUDLOW
COUNTY OF WINDSOR

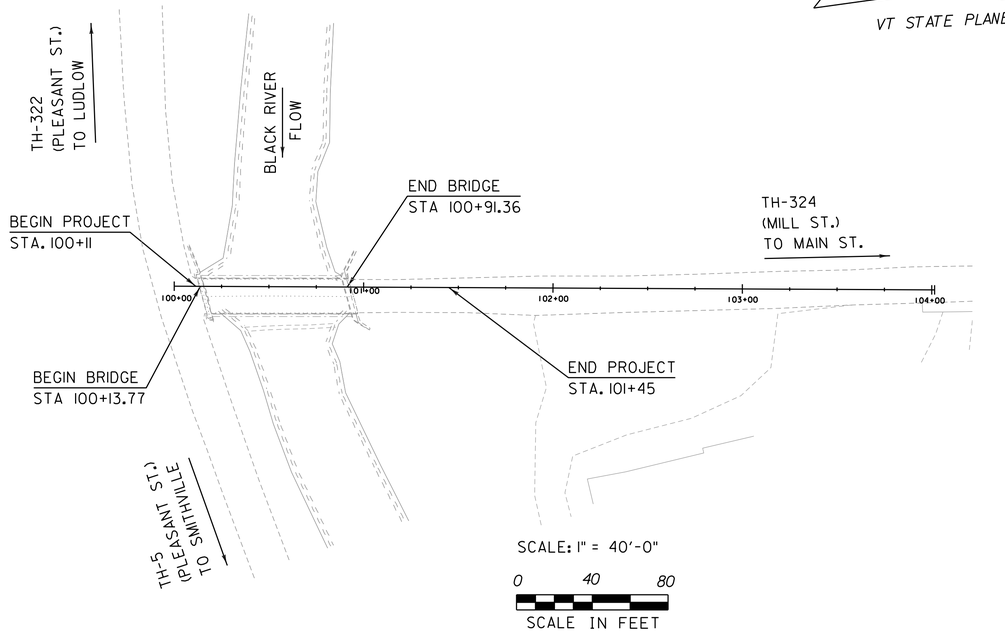
ROUTE NO: TH 324 (MILL STREET), CLASS 3, LOCAL ROAD
BRIDGE NO: 57 OVER BLACK RIVER

PROJECT LOCATION: BRIDGE 57 IS LOCATED ON TH-324, MILL STREET IN LUDLOW VILLAGE OVER BLACK RIVER. THE SOUTH END OF THE BRIDGE IS AT THE INTERSECTION OF MILL STREET AND TH-5, PLEASANT STREET

PROJECT DESCRIPTION: REMOVAL OF EXISTING TRUSS SUPERSTRUCTURE AND CONSTRUCTION OF A PEDESTRIAN BRIDGE ON THE EXISTING ABUTMENTS WITH RELATED SUBSTRUCTURE REPAIR, APPROACH WORK, AND INCIDENTAL ITEMS.

LENGTH OF STRUCTURE: 77.59 FEET
LENGTH OF ROADWAY: 56.41 FEET
TOTAL LENGTH OF PROJECT: 134.00 FEET





CONCEPTUAL PLANS
AUGUST 7, 2020

GILL ENGINEERING

HIGHWAY DIVISION, CHIEF ENGINEER
APPROVED _____ DATE _____

PROJECT MANAGER : TODD SUMNER, PE

PROJECT NAME : LUDLOW VILLAGE
PROJECT NUMBER : BO 1443(52)

SHEET 1 OF 12 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

DETAIL SHEETS

STANDARDS WILL BE LISTED IN FINAL PLANS

STANDARDS LIST

STANDARDS WILL BE LISTED IN FINAL PLANS

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

1. N/A

DESIGN VALUES

1.	DESIGN LIVE LOAD		H-10
2.	FUTURE PAVEMENT	d_p:	3.0 INCH
3.	DESIGN SPAN	L:	77.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	- - -
5.	PRESTRESSING STRAND	f_y:	- - -
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	- - -
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	- - -
8.	HIGH PERFORMANCE CONCRETE, CLASS PCD	f'_c:	4.0 KSI
9.	HIGH PERFORMANCE CONCRETE, CLASS PCS	f'_c:	4.0 KSI
10.	CONCRETE HIGH PERFORMANCE, CLASS PSS	f'_c:	3.5 KSI
11.	CONCRETE, CLASS C	f'_c:	3.0 KSI
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270	f_y:	50 KSI
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	4.0 KSF
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	10.0 KSF
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
18.	PILE RESISTANCE FACTOR	ϕ:	- - -
19.	LATERAL PILE DEFLECTION	Δ:	- - -
20.	BASIC WIND SPEED	V_{3s}:	- - -
21.	MINIMUM GROUND SNOW LOAD	p_g:	- - -
22.	SEISMIC DATA	PGA: - - - / S_s:	- - -
		S_1:	- - -
23.			
24.			- - -
25.			- - -
26.			- - -

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEMI
TONNAGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2018	N/A	N/A	N/A	N/A	N/A
2038	N/A	N/A	N/A	N/A	N/A

20 year ESAL for flexible pavement from 2018 to 2038 : N/A

40 year ESAL for flexible pavement from 2018 to 2058 : N/A

Design Speed : N/A mph

AS BUILT "REBAR" DETAIL

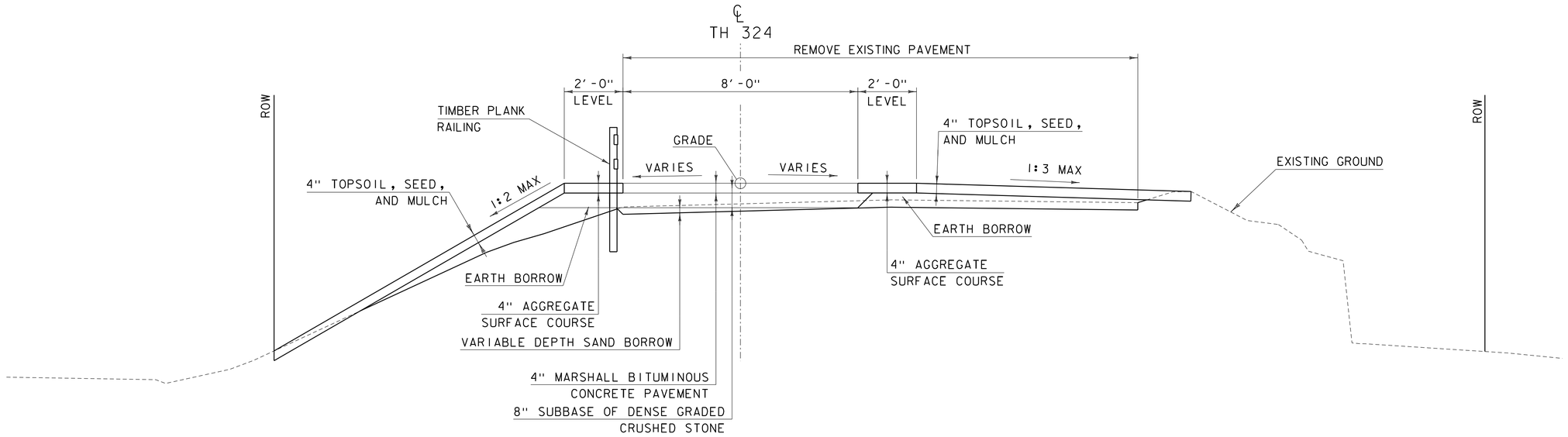
LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

PROJECT NAME: **LUDLOW VILLAGE**

PROJECT NUMBER: **B0 1443(52)**

FILE NAME: **PI Sheet Builder_v008-20c.xls**
PROJECT LEADER: **G.KOBER**
DESIGNED BY: **S.CARPENTER**
PRELIMINARY INFORMATION SHEET

PLOT DATE: 7/17/2020
DRAWN BY: **D.CASALE**
CHECKED BY:



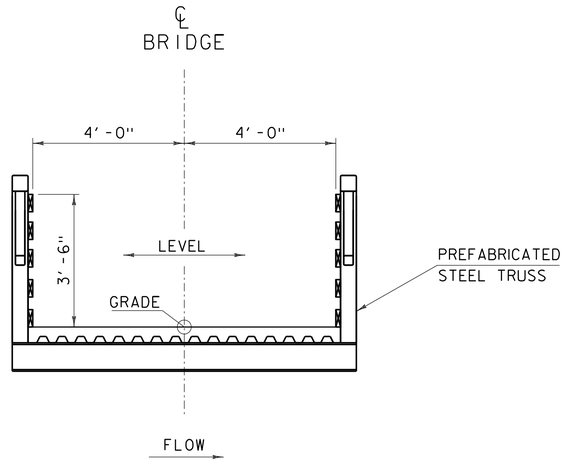
PROPOSED TH 324 SHARED USE PATH TYPICAL SECTION

SCALE ½" = 1-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROWS	+/- 1"



PEDESTRIAN BRIDGE REPLACEMENT TYPICAL SECTION

SCALE ½" = 1-0"

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638typ.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
TYPICAL SECTIONS SHEET

PLOT DATE: 8/7/2020
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 3 OF 12

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

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

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

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

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CZ — CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

- TOP OF CUT SLOPE
- TOE OF FILL SLOPE
- STONE FILL
- BOTTOM OF DITCH ℄
- CULVERT PROPOSED
- STRUCTURE SUBSURFACE
- PDF — PROJECT DEMARCATION FENCE
- BF — BARRIER FENCE
- TREE PROTECTION ZONE (TPZ)
- STRIPING LINE REMOVAL
- SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

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

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

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

ARCHEOLOGICAL & HISTORIC

- ARCH — ARCHEOLOGICAL BOUNDARY
- HISTORIC DIST — HISTORIC DISTRICT BOUNDARY
- HISTORIC — HISTORIC AREA
- (H) — HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

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

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(53)

FILE NAME: Z12J638legend.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: VTRANS
LEGEND SHEET

PLOT DATE: 8/7/2020
DRAWN BY: VTRANS
CHECKED BY: VTRANS
SHEET 4 OF 12

NETWORK CONTROL

HVCTRL #1
BRIGADE AZ MK
NORTH = 326083.6000
EAST = 1591965.7300
ELEV. = 971.8700

THE STATION IS LOCATED ABOUT 6.4 MI (10.3 KM) WEST-NORTHWEST OF BALTIMORE, 3.8 MI (6.1 KM) WEST-NORTHWEST OF CAVENDISH AND 1.0 MI (1.6KM) EAST OF LUDLOW. TO REACH FROM THE INTERSECTION OF VT ROUTE 100 SOUTH (ANDOVER STREET) AND VT ROUTE 103 EAST (MAIN STREET), GO EAST ALONG MAIN STREET FOR 1.0 MI (1.6 KM) TO THE SITE OF THE MARK ON THE RIGHT, OPPOSITE THE LAWN ON THE NORTHWEST SIDE OF SAM'S STEAKHOUSE.
THE MARK IS SET 3 CM (1 INCH) BELOW GROUND SURFACE IN THE TOP OF A 30 CM (12 INCHES) DIAMETER CONCRETE MONUMENT ON THE NORTH EDGE OF A SMALL FIELD BETWEEN THE TIMBER INN MOTEL AND THE BROOKHAVEN RESORT CONDOMINIUMS.
IT IS 7.1 M (23.3 FT) SOUTHWEST OF AND ABOUT 0.3 M (1.0 FT) LOWER THAN THE CENTERLINE OF MAIN STREET, 21.5 M (70.5 FT) SOUTHEAST OF POLE NO 7/24/1 WITH GUY, 14.9 M (48.9 FT) NORTHWEST OF POLE NO 7/25/2, 14.1 M (46.3 FT) EAST OF A 4 CM (2 INCHES) DIAMETER IRON PIPE WHICH PROJECTS 0.5 M (1.6 FT) ABOVE GROUND SURFACE AND 0.3 M (1.0 FT) NORTHEAST OF A FIBERGLASS WITNESS POST.

HVCTRL #2
BRIGADE
NORTH = 326830.1000
EAST = 1590300.1300
ELEV. = 990.0200

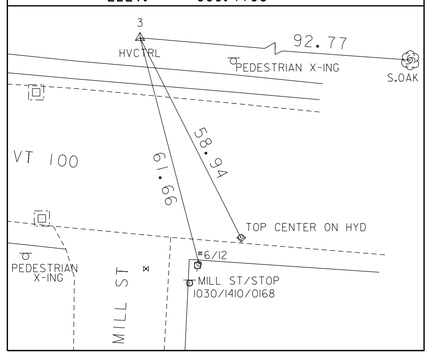
BRIGADE
GENERAL LOCATION, LUDLOW, VT.
TO REACH FROM THE INTERSECTION OF VT ROUTE 100 SOUTH (ANDOVER STREET) AND VT ROUTE 103 EAST (MAIN STREET), GO EAST ALONG MAIN STREET FOR 0.7 MI (1.13 KM) TO THE SITE OF THE MARK ON THE LEFT.

THE MARK IS A CHISELED CROSS CUT IN THE TOP OF THE WEST SIDE OF THE RIM FOR A 60 CM (24 INCH) DIAMETER MANHOLE, IN THE CONCRETE SIDEWALK SOUTHWEST OF BLACK RIVER HIGH SCHOOL.

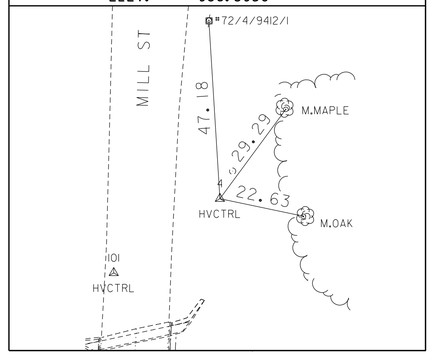
IT IS 5.7 M (18.7 FT) NORTHEAST OF AND ABOUT 0.2 M (0.7 FT) HIGHER THAN THE CENTERLINE OF MAIN STREET, 0.7 M (2.3 FT) NORTHEAST OF THE SOUTHWEST EDGE OF THE SIDEWALK CURB, 9.1 M (29.9 FT) SOUTHEAST OF POLE NO 9S/2300/185 WITH GUY, 15.9 M (52.2 FT) SOUTH OF THE SOUTHEAST CORNER OF A BRICK PLANTER WITH MARBLE BLACK RIVER HIGH SCHOOL SIGN, 36.8 M (120.7 FT) WEST NORTHWEST OF THE CENTERLINE OF THE SCHOOL EXIT DRIVE, 49.6 M (162.7 FT) EAST OF THE CENTERLINE OF THE SCHOOL ENTRANCE DRIVE, AND 30.4 M (99.7 FT) WEST OF A 60 CM (24 INCH) MAPLE.

LOCAL CONTROL

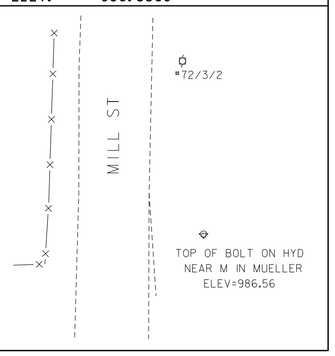
HVCTRL #3
NORTH = 326933.0112
EAST = 1589441.7205
ELEV. = 999.1790



HVCTRL #4
NORTH = 326166.9121
EAST = 1589438.8911
ELEV. = 986.3950



BENCH MARK
NORTH = 326384.2087
EAST = 1589448.8002
ELEV. = 986.5569



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

LOCAL CONTROL

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

DATUM
VERTICAL NAVD88
HORIZONTAL NAD83(96)
ADJUSTMENT COMPASS

PROJECT NAME: LUDLOW
PROJECT NUMBER: BO 1443 (52)

FILE NAME: X12J638TI.DGN
PROJECT LEADER: J. FITCH
DESIGNED BY: VTRANS
TIE SHEET

PLOT DATE: 8/7/2020
DRAWN BY: H. MCGOWAN
CHECKED BY: G. HITCHCOCK
SHEET 5 OF 12

SOIL CLASSIFICATION:
URBAN
LAND-COLTON-CROGHAN
COMPLEX,
0-8% SLOPES

SOIL
CLASSIFICATION:
WATER

SOIL CLASSIFICATION:
URBAN
LAND-COLTON-CROGHAN
COMPLEX,
0-8% SLOPES

SOIL CLASSIFICATION:
MARLOW FINE SANDY
LOAM,
35-60% SLOPES, VERY
STONY

VT STATE PLANE GRID

N

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

KELLY, STEVEN J.
& DIANE M.

CRES MANAGEMENT LLC

N/F
REILLY, LYNN D.

N/F
COUCH, ALAN
& KATHERINE

BLACK RIVER
FLOW

TH-324 (MILL ST.)
TO MAIN ST.

100+00

101+00

102+00

103+00

104+00

STATE OF
VERMONT

FRANKE,
RICHARD A.

CRES MANAGEMENT LLC

DOLAN, WILLIAM C.
& FISH, BRETT E.

TH-322
(PLEASANT ST.)

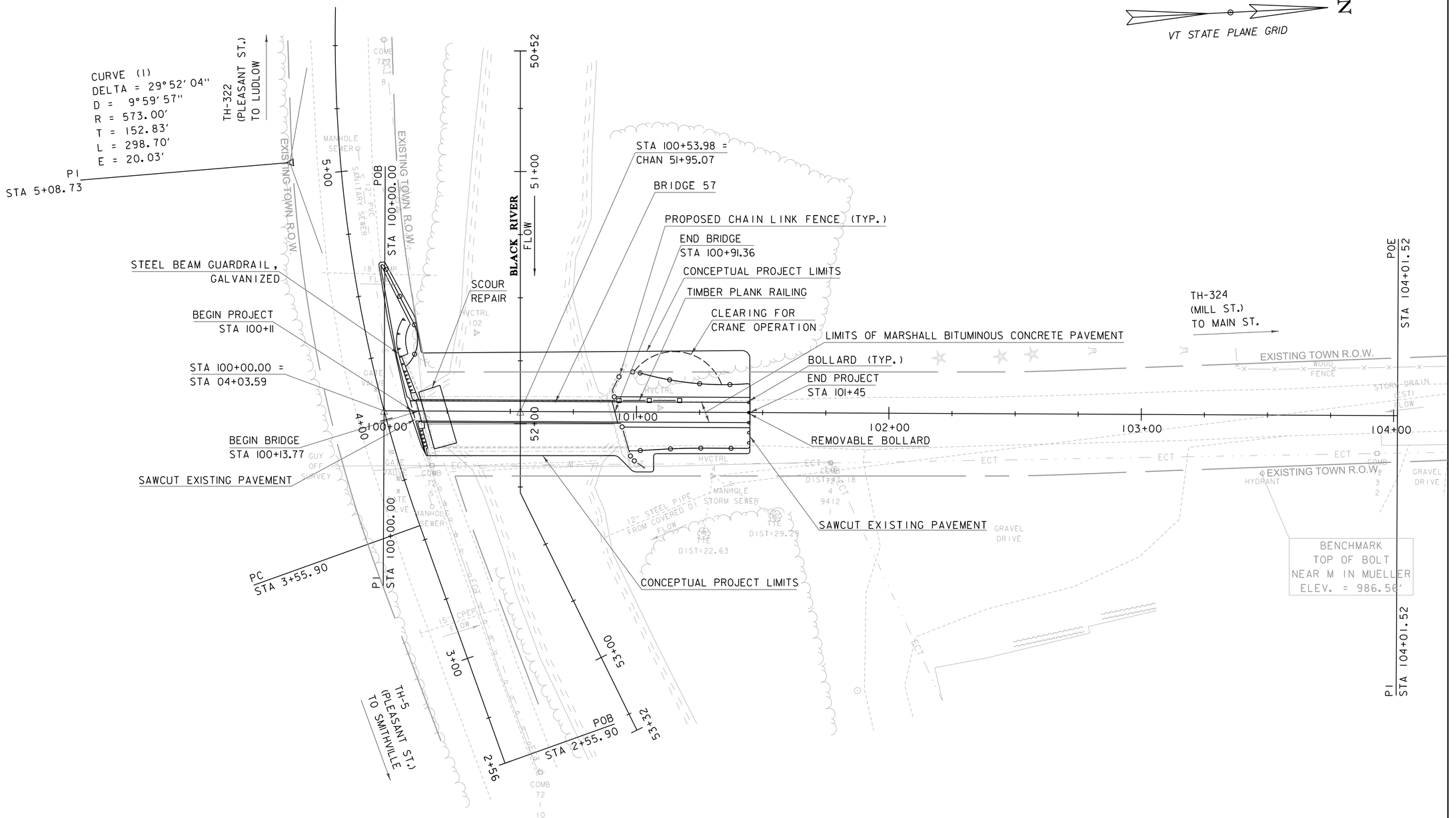
EXISTING BRIDGE INFO
78' SINGLE SPAN
STEEL PONY TRUSS
BUILT 1929, CLOSED 2007

RESOURCE SITE PLAN

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

GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12J638bdr_ero.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: S.CARPENTER	CHECKED BY: ------
RESOURCE SITE PLAN	SHEET 6 OF 12



LAYOUT

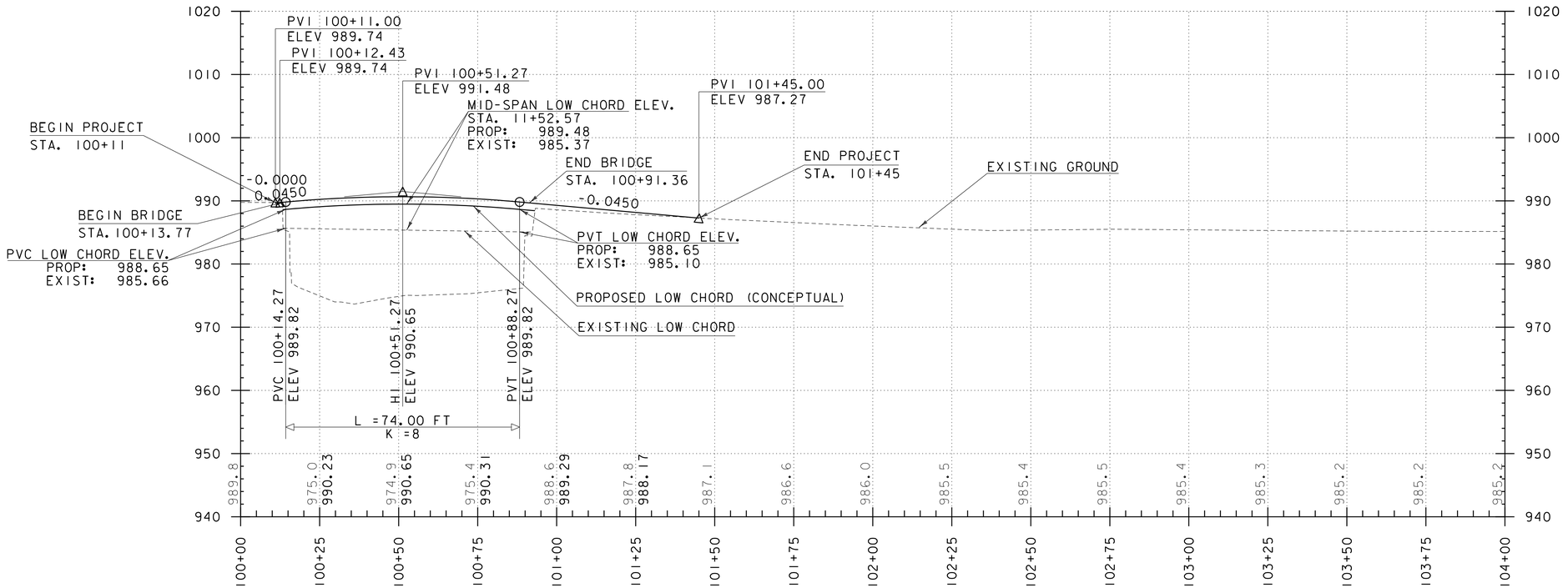
SCALE 1" = 20'-0"

20 0 20

EXISTING BRIDGE INFO
78' SINGLE SPAN
STEEL PONY TRUSS
BUILT 1929, CLOSED 2007

GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12J638border.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
LAYOUT SHEET	SHEET 7 OF 12

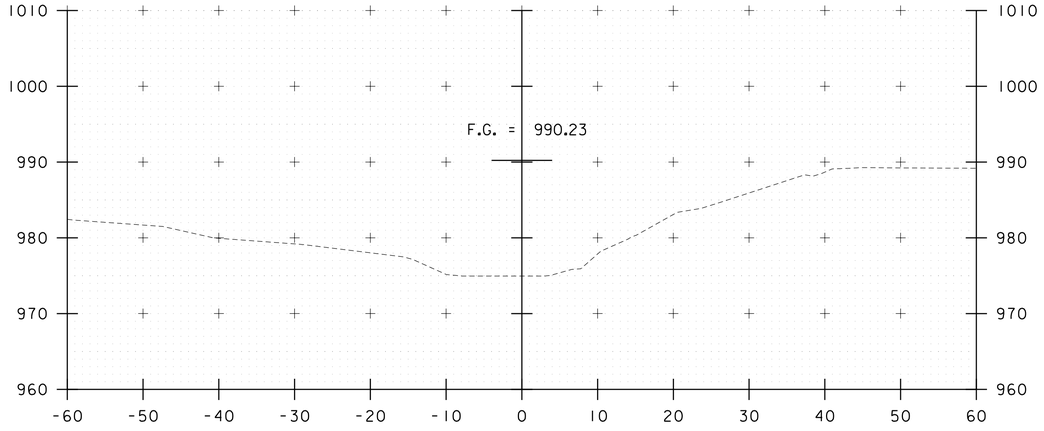


TOWN HIGHWAY 324 PROFILE

SCALE: HORIZONTAL 1"=20'-0"
VERTICAL 1"=10'-0"

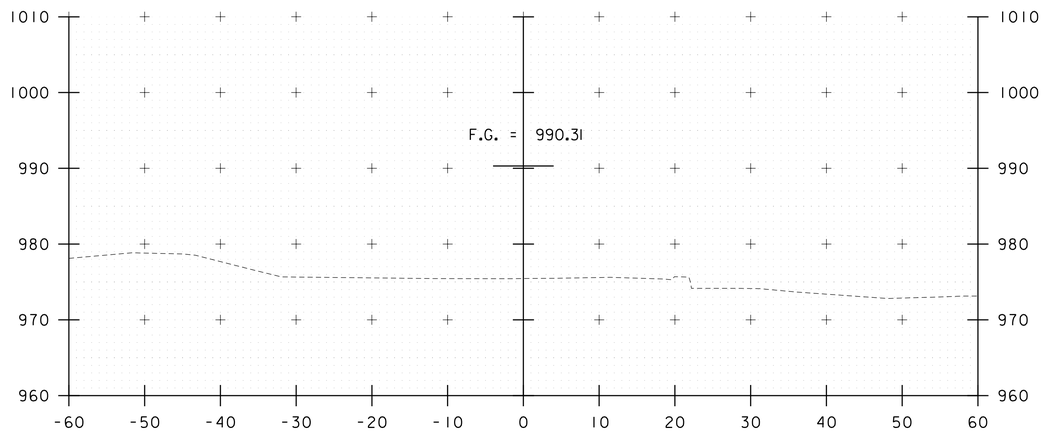
GILL ENGINEERING

PROJECT NAME:	LUDLOW VILLAGE
PROJECT NUMBER:	BO 1443(52)
FILE NAME: z12j638profile.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
PROFILE SHEET	SHEET 8 OF 12

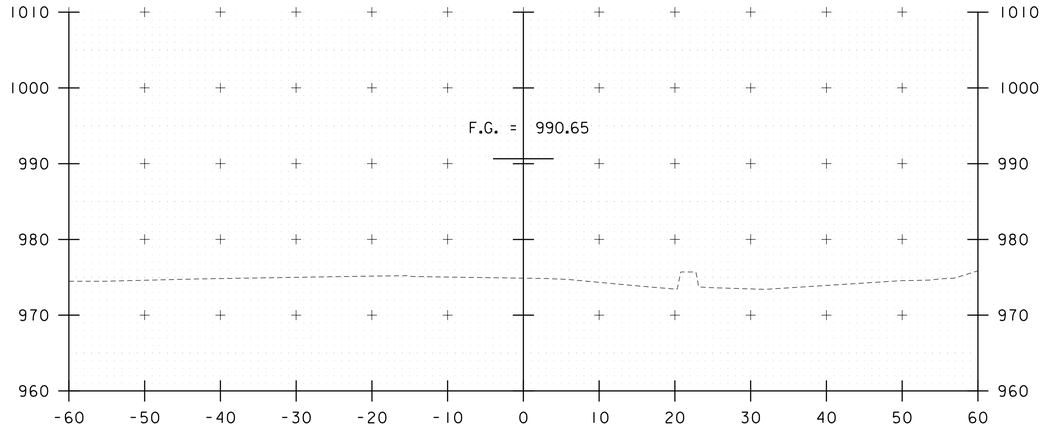


100+00

100+25



100+75

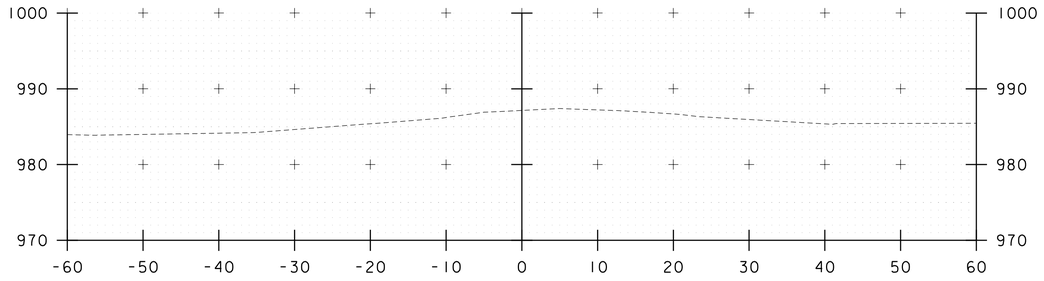


100+50

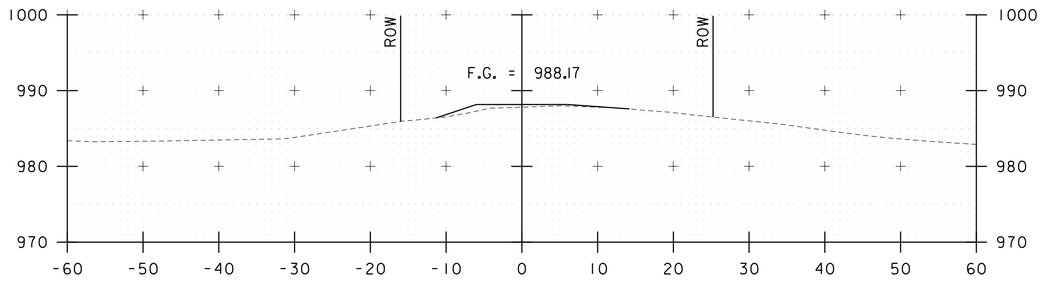
STA. 100+00 TO STA. 100+75

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE	
PROJECT NUMBER: BO 1443(52)	
FILE NAME: z12j638xs.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
ROADWAY CROSS SECTIONS SHEET 1	SHEET 9 OF 12



101+50



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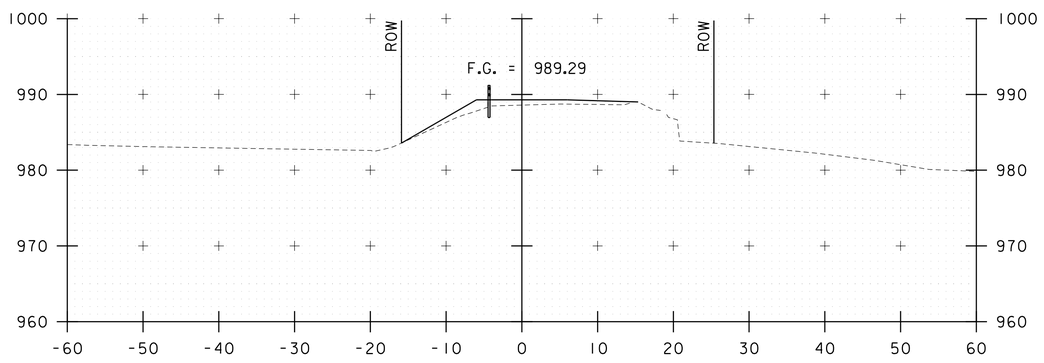


101+00

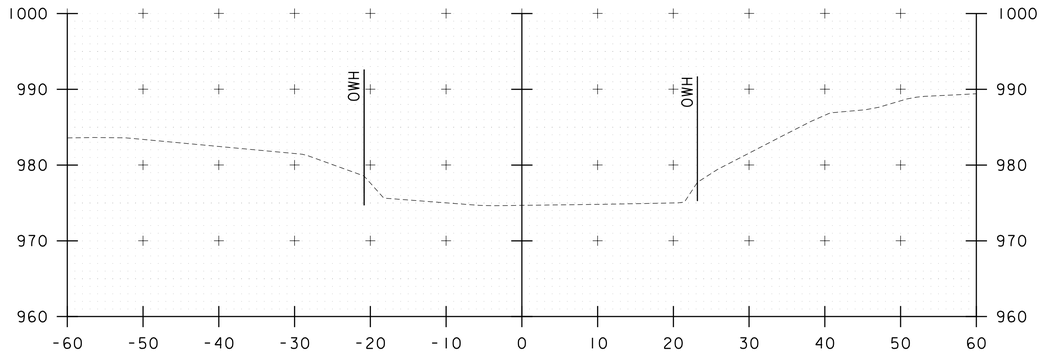
STA. 101+00 TO STA. 101+50

GILL ENGINEERING

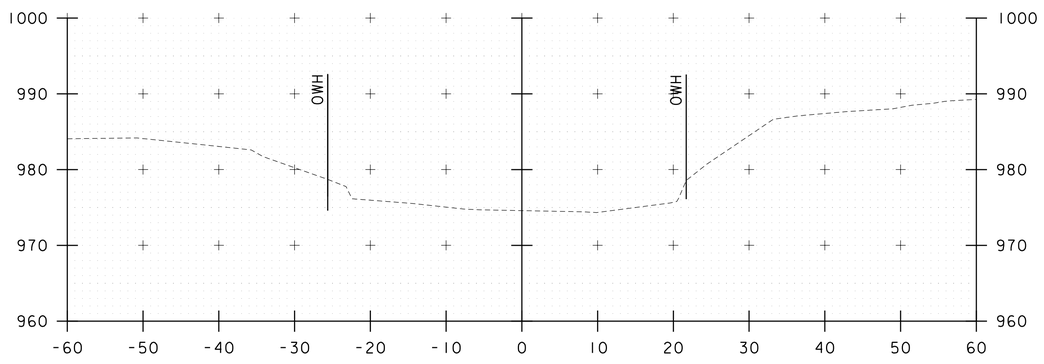
PROJECT NAME: LUDLOW VILLAGE
PROJECT NUMBER: BO 1443(52)

FILE NAME: z12j638xs.dgn
PROJECT LEADER: G.KOBER
DESIGNED BY: A.LEENHOUTS
ROADWAY CROSS SECTIONS SHEET 2

PLOT DATE: 8/7/2020
DRAWN BY: D.CASALE
CHECKED BY: ------
SHEET 10 OF 12



51+50



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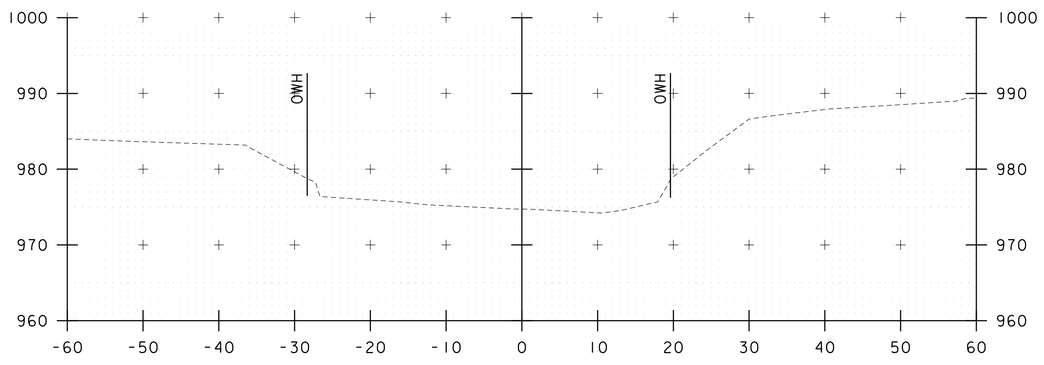
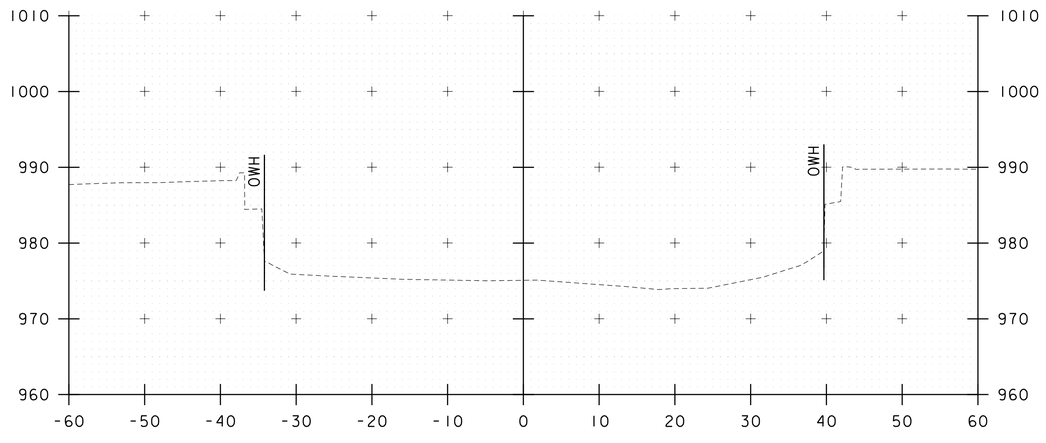
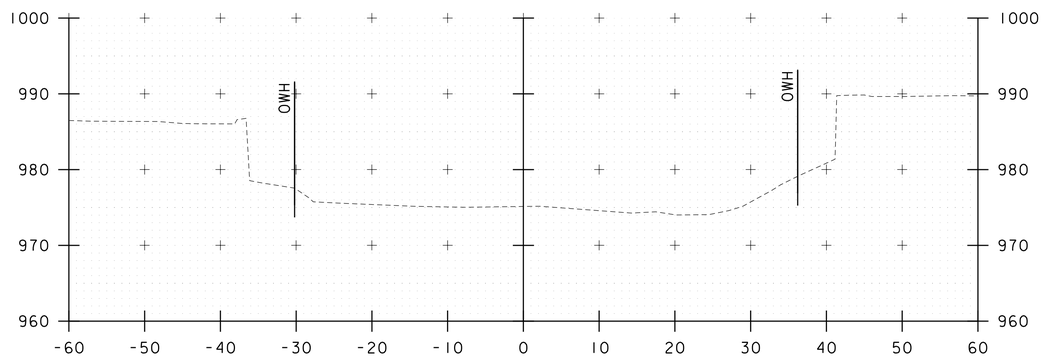


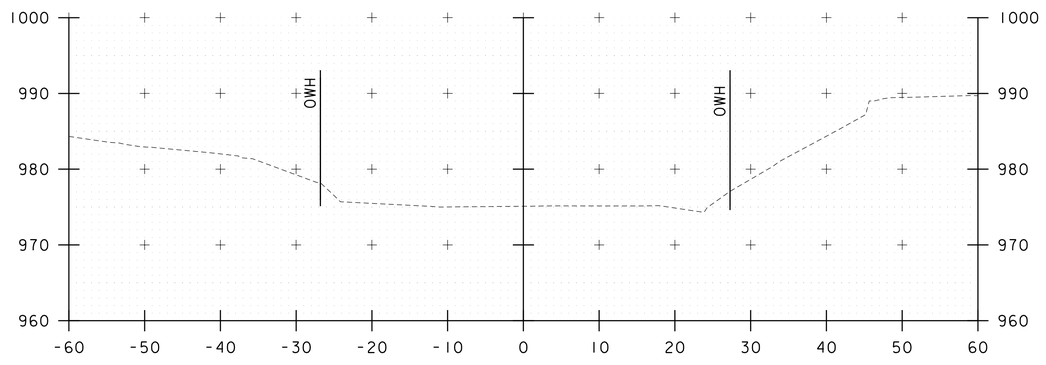
51+00



51+90



51+85

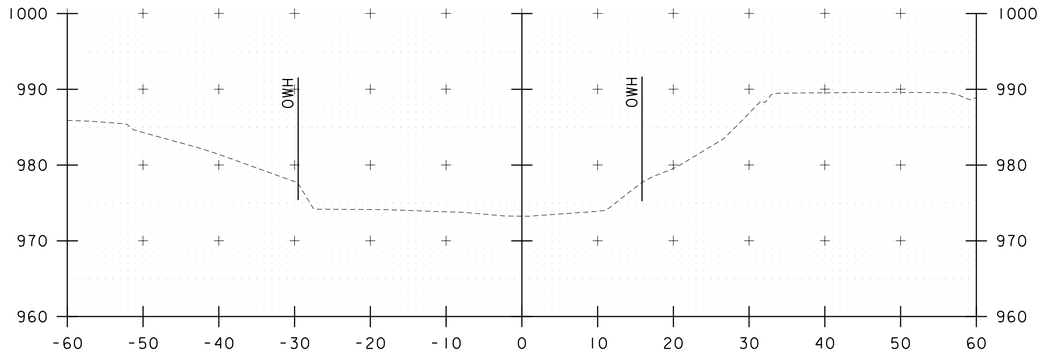


51+75

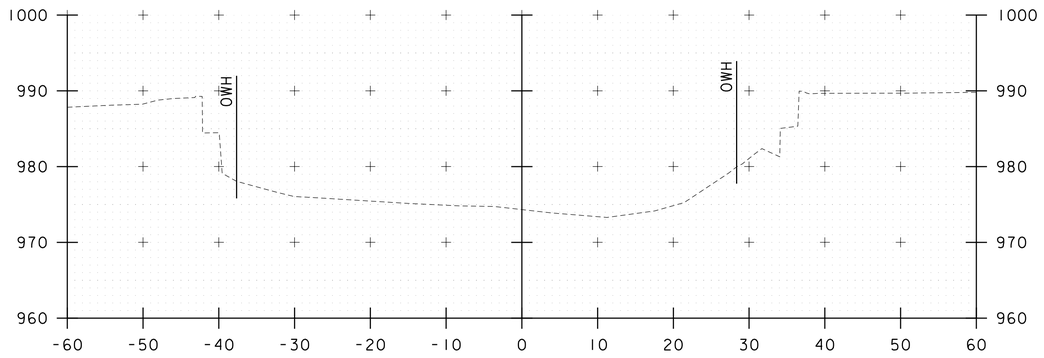
STA. 51+00 TO STA. 51+90

GILL ENGINEERING

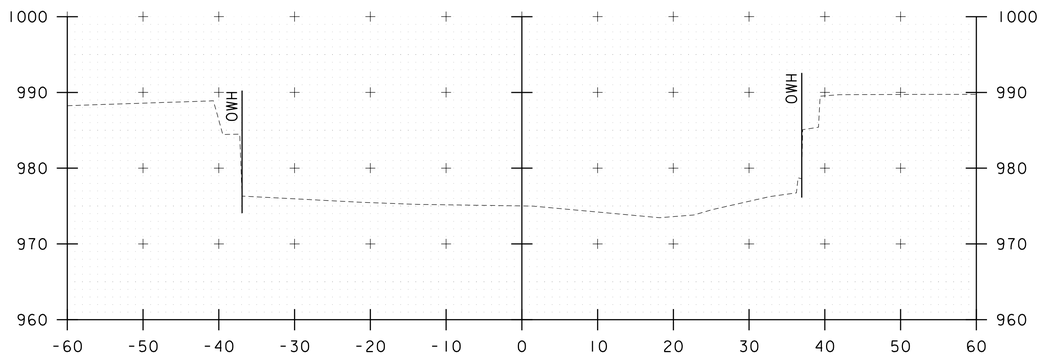
PROJECT NAME: LUDLOW VILLAGE	
PROJECT NUMBER: BO 1443(52)	
FILE NAME: z12j638xs.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
CHANNEL CROSS SECTIONS SHEET 1	SHEET 11 OF 12



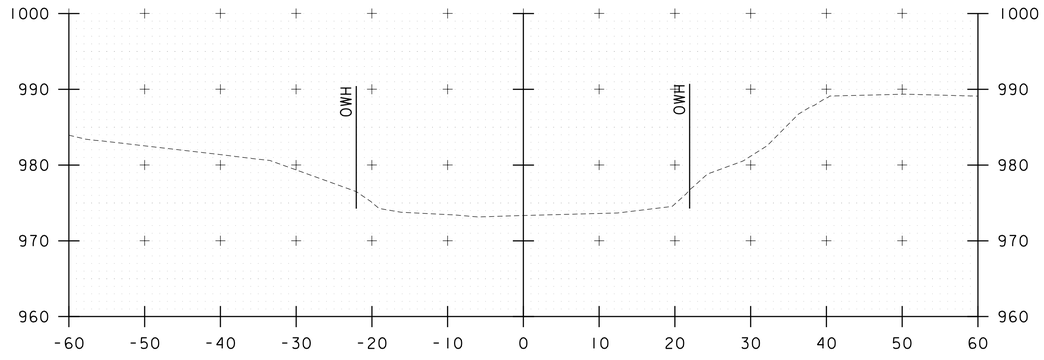
52+25



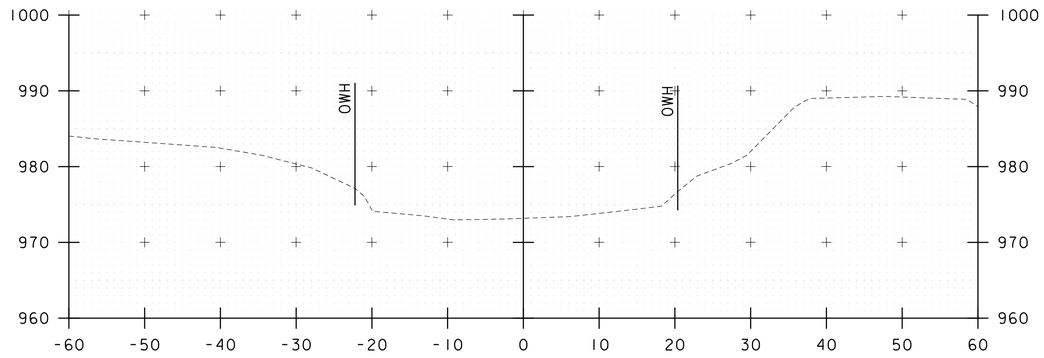
52+10



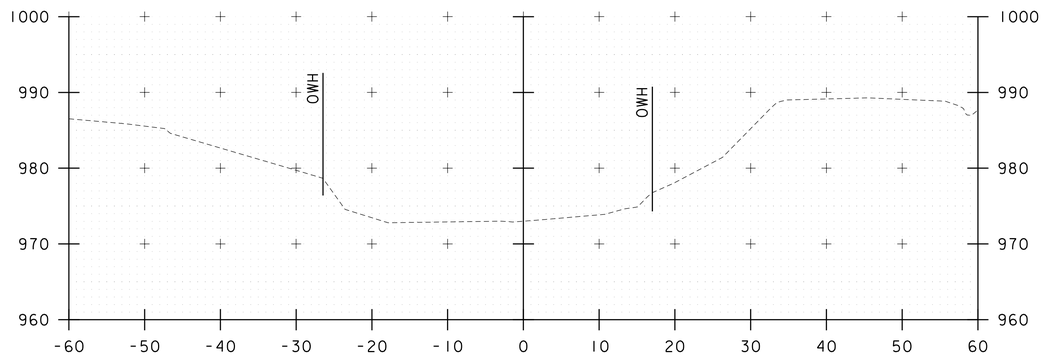
52+00



53+00



52+75



52+50

STA. 52+00 TO STA. 53+00

GILL ENGINEERING

PROJECT NAME: LUDLOW VILLAGE	
PROJECT NUMBER: BO 1443(52)	
FILE NAME: z12j638xs.dgn	PLOT DATE: 8/7/2020
PROJECT LEADER: G.KOBER	DRAWN BY: D.CASALE
DESIGNED BY: A.LEENHOUTS	CHECKED BY: ------
CHANNEL CROSS SECTIONS SHEET 2	SHEET 12 OF 12