

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

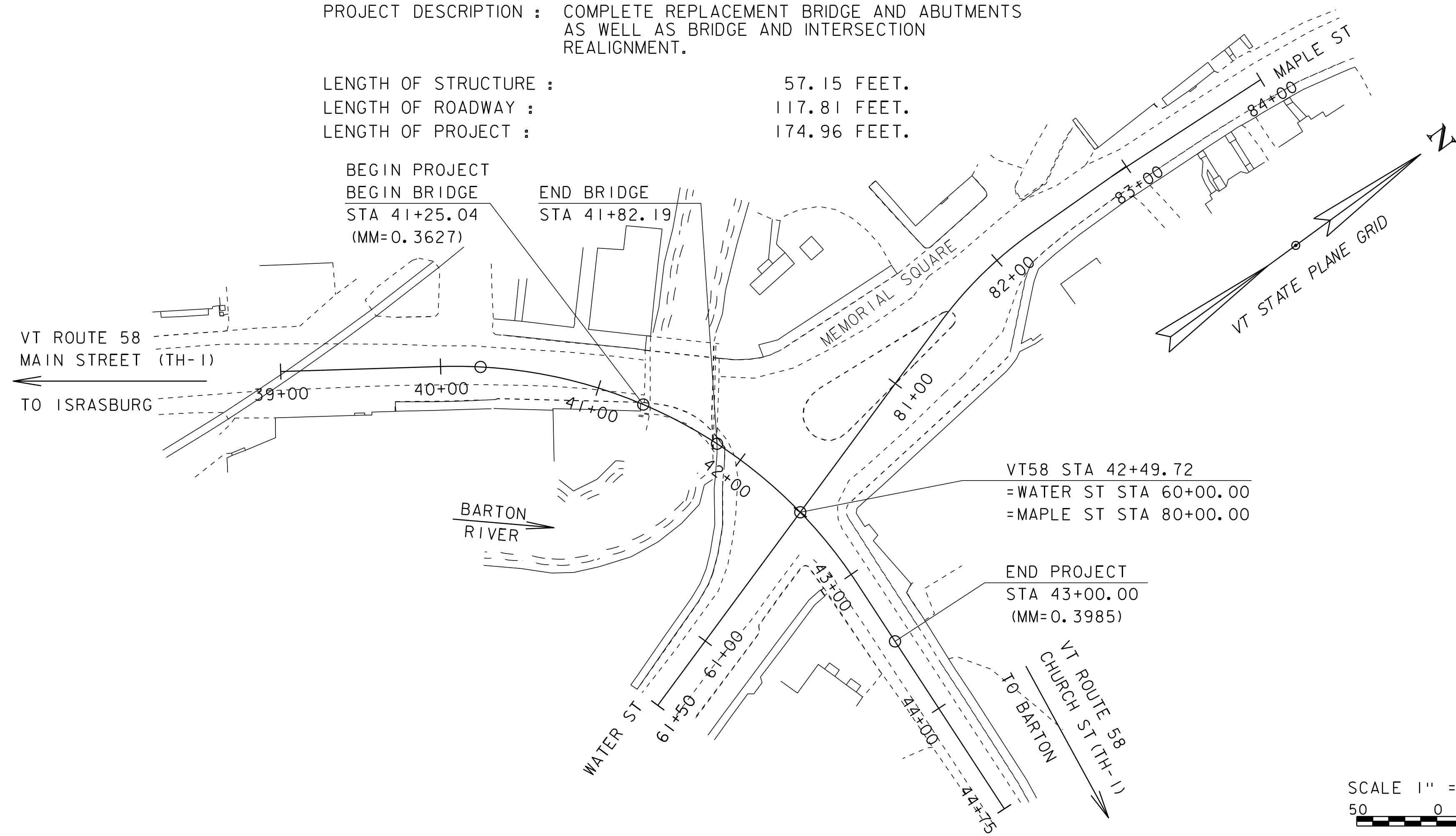
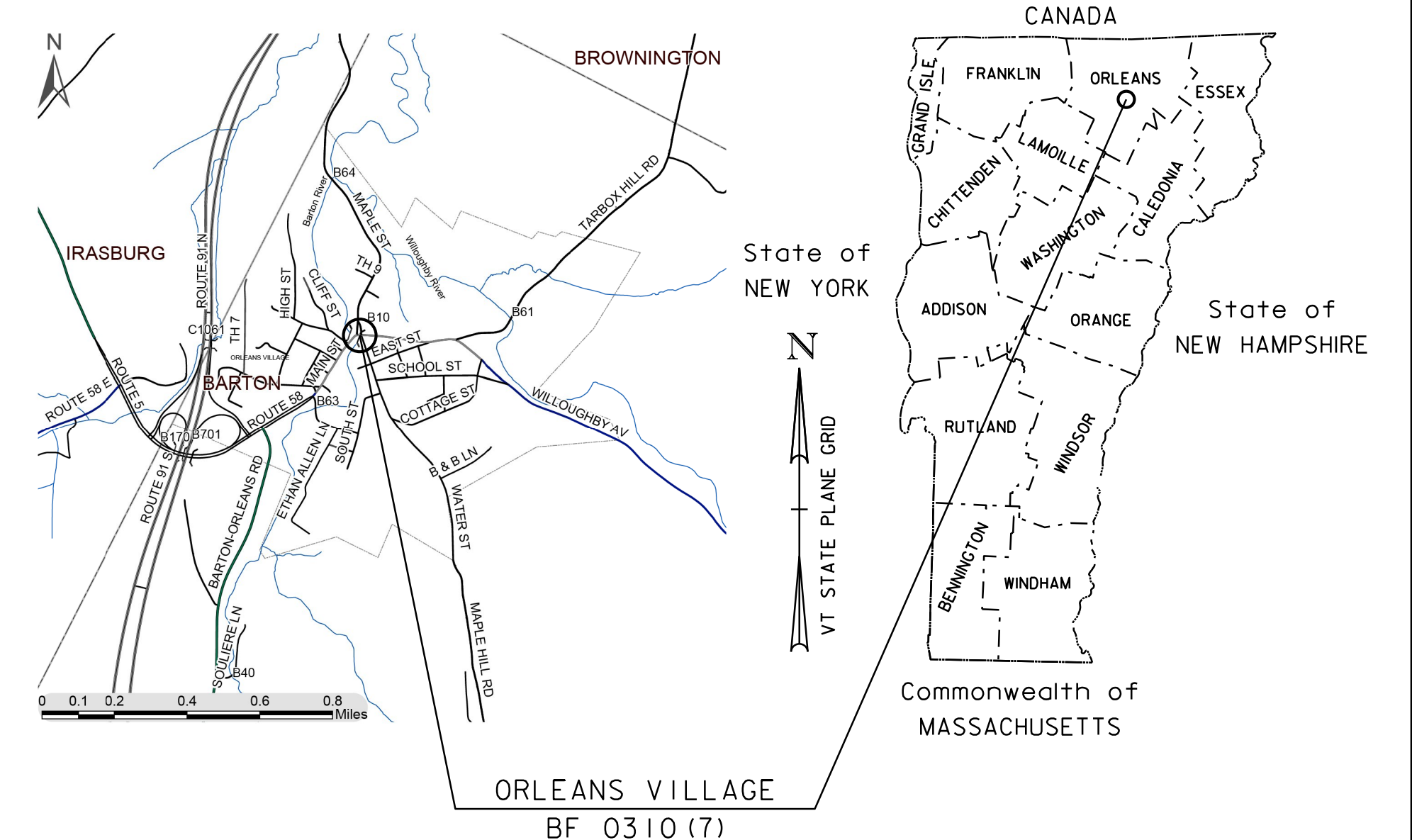
TOWN OF BARTON, ORLEANS VILLAGE  
COUNTY OF ORLEANS

ROUTE NO : VT RT 58, MAJOR COLLECTOR    BRIDGE NO : 10

PROJECT LOCATION :    CENTER OF ORLEANS VILLAGE, AT THE  
INTERSECTION OF VT ROUTE 58 (TH-1), MAPLE ST,  
AND WATER ST. OVER THE BARTON RIVER.

PROJECT DESCRIPTION :    COMPLETE REPLACEMENT BRIDGE AND ABUTMENTS  
AS WELL AS BRIDGE AND INTERSECTION  
REALIGNMENT.

LENGTH OF STRUCTURE :                    57.15 FEET.  
LENGTH OF ROADWAY :                    117.81 FEET.  
LENGTH OF PROJECT :                    174.96 FEET.

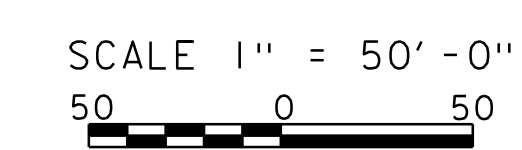


CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VAOT - R. GILMAN
SURVEYED DATE :	01-26-2010
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (2007)

**FINAL PLANS  
05-MAR-2018**

DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN CARLSON, P. E.	
PROJECT NAME :	ORLEANS VILLAGE
PROJECT NUMBER :	BF 0310 (7)
SHEET 1 OF 47 SHEETS	





# PRELIMINARY INFORMATION SHEET (BRIDGE)

### INDEX OF SHEETS

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#### STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-502.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-516.10	BRIDGE JOINT ASPHALTIC PLUG	5/7/2010
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	5/7/2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	5/7/2010

#### STANDARDS LIST

### FINAL HYDRAULIC REPORT

#### HYDROLOGIC DATA

Date: July 2016

DRAINAGE AREA : 77.8 sq. mi.  
 CHARACTER OF TERRAIN : Rural and urban settings, woods and fields  
 STREAM CHARACTERISTICS : Sinuous and alluvial  
 NATURE OF STREAMBED : Gravel and cobbles

#### PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (AEP)

43% =	2,455 cfs	2% =	6,914 cfs
10% =	5,089 cfs	1% =	7,899 cfs
4% =	6,150	0.2% =	10,400 cfs

DATE OF FLOOD OF RECORD : Unknown  
 ESTIMATED DISCHARGE : Unknown  
 WATER SURFACE ELEV. : Unknown  
 NATURAL STREAM VELOCITY : @ 2% AEP Unknown  
 ICE CONDITIONS : Moderate  
 DEBRIS : Light  
 DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? No  
 IS ORDINARY RISE RAPID? No  
 IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No  
 IF YES, DESCRIBE :

WATERSHED STORAGE : 3% HEADWATERS :  
 UNIFORM : X  
 IMMEDIATELY ABOVE SITE :

#### EXISTING STRUCTURE INFORMATION

STRUCTURE TYPE : Concrete T-Beam  
 YEAR BUILT : 1933, Reconstructed in 1948  
 CLEAR SPAN(NORMAL TO STREAM): 41.1'  
 VERTICAL CLEARANCE ABOVE STREAMBED : 13'  
 WATERWAY OF FULL OPENING : 500.0 sq. ft.  
 DISPOSITION OF STRUCTURE : Remove and replace  
 TYPE OF MATERIAL UNDER SUBSTRUCTURE : See borings

#### WATER SURFACE ELEVATIONS AT:

43% AEP =	730.4'	VELOCITY =	10.2 fps
10% AEP =	735.5'	"	15.0 fps
4% AEP =	737.1'	"	16.2 fps
2% AEP =	738.1'	"	16.8 fps
1% AEP =	739.2'	"	17.6 fps

LONG TERM STREAMBED CHANGES : None noted

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No  
 FREQUENCY: N/A  
 RELIEF ELEVATION: 740.2'  
 DISCHARGE OVER ROAD @ 1% AEP: N/A

#### UPSTREAM STRUCTURE

TOWN: Orleans Village DISTANCE: 1450'  
 HIGHWAY #: TH 716 - Railroad Avenue STRUCTURE #: 63  
 CLEAR SPAN: 77' CLEAR HEIGHT:  
 YEAR BUILT: 1958 FULL WATERWAY:  
 STRUCTURE TYPE: Rolled Beam

#### DOWNSTREAM STRUCTURE

TOWN: Orleans Village DISTANCE: 2500'  
 HIGHWAY #: TH 2 - Maple Street STRUCTURE #: 64  
 CLEAR SPAN: 65' CLEAR HEIGHT:  
 YEAR BUILT: 1983 FULL WATERWAY:  
 STRUCTURE TYPE: Rolled Beam

#### LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A STR.	4A STR.	5A SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

#### PROPOSED STRUCTURE

STRUCTURE TYPE: Single span steel beam  
 CLEAR SPAN(NORMAL TO STREAM): 43'  
 VERTICAL CLEARANCE ABOVE STREAMBED: 14.3'  
 WATERWAY OF FULL OPENING: 565 sq. ft.

#### WATER SURFACE ELEVATIONS AT:

43% AEP =	730.2'	VELOCITY=	9.2 fps
10% AEP =	735.0'	"	13.2 fps
4% AEP =	736.6'	"	14.6 fps
2% AEP =	737.6'	"	15.5 fps
1% AEP =	739.0'	"	16.1 fps

IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No  
 FREQUENCY: N/A  
 RELIEF ELEVATION: 739.9'  
 DISCHARGE OVER ROAD @ 1% AEP: N/A

BRIDGE LOW CHORD ELEVATION: 736.72' (downstream)  
 FREEBOARD: @ 2% AEP = -0.88'

SCOUR: Foundations should be 6' below streambed or built to be freestanding to 6' below streambed.  
 REQUIRED CHANNEL PROTECTION: Stone Fill, Type IV

#### PERMIT INFORMATION

AVERAGE DAILY FLOW: - DEPTH OR ELEVATION:  
 ORDINARY LOW WATER: -  
 ORDINARY HIGH WATER: -

#### TEMPORARY BRIDGE REQUIREMENTS

STRUCTURE TYPE: None required  
 CLEAR SPAN (NORMAL TO STREAM):  
 VERTICAL CLEARANCE ABOVE STREAMBED:  
 WATERWAY AREA OF FULL OPENING:

#### ADDITIONAL INFORMATION

#### TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

#### DESIGN VALUES

1. DESIGN LIVE LOAD	HL-93
2. FUTURE PAVEMENT	dp: ---
3. DESIGN SPAN	L: 50.00 FT
4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ: ---
5. PRESTRESSING STRAND	fy: ---
6. PRESTRESSED CONCRETE STRENGTH	f'c: ---
7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'cr: ---
8. CONCRETE, HIGH PERFORMANCE CLASS AA	f'c: ---
9. CONCRETE, HIGH PERFORMANCE CLASS A	f'c: 4.0 KSI
10. CONCRETE, HIGH PERFORMANCE CLASS B	f'c: 3.5 KSI
11. CONCRETE, CLASS C	f'c: ---
12. REINFORCING STEEL	fy: 60 KSI
13. STRUCTURAL STEEL AASHTO M270	fy: ---
14. NOMINAL BEARING RESISTANCE OF SOIL	qn: 4.0 KSF
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ: ---
16. NOMINAL BEARING RESISTANCE OF ROCK	qn: 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	V3s: ---
21. MINIMUM GROUND SNOW LOAD	pg: ---
22. SEISMIC DATA	PGA: 0 Ss: --- Sf: ---
23.	---
24.	---
25.	---
26.	---

PROJECT NAME: ORLEANS VILLAGE

PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084pi.dgn PLOT DATE: 2/20/2018  
 PROJECT LEADER: C. CARLSON DRAWN BY: M. LONGSTREET  
 DESIGNED BY: D. PETERSON CHECKED BY: D. PETERSON  
 PRELIMINARY INFORMATION SHEET 1 SHEET 2 OF 47

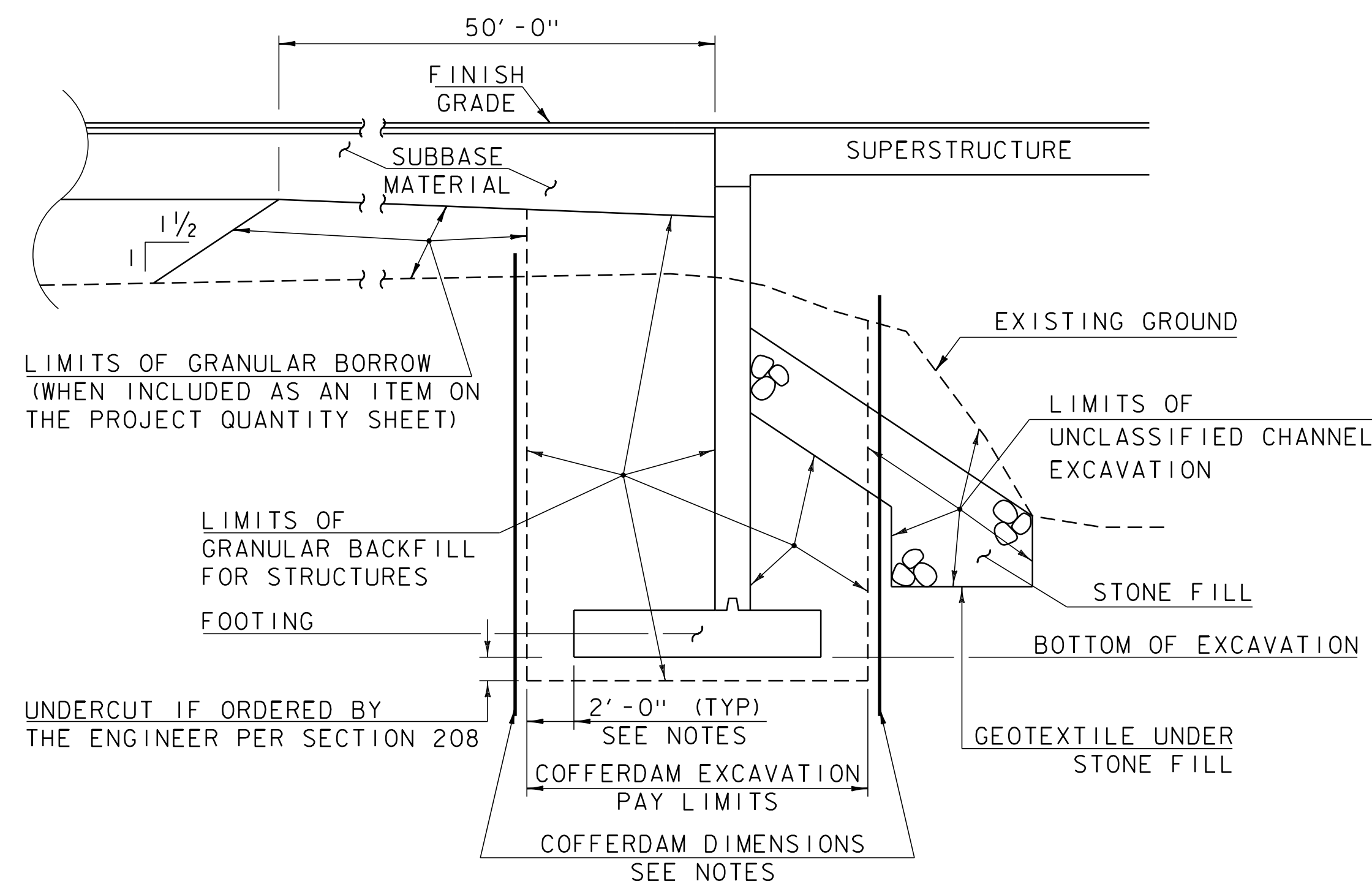
#### TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2016	4600	520	59	2	180
2036	4900	550	59	3	300

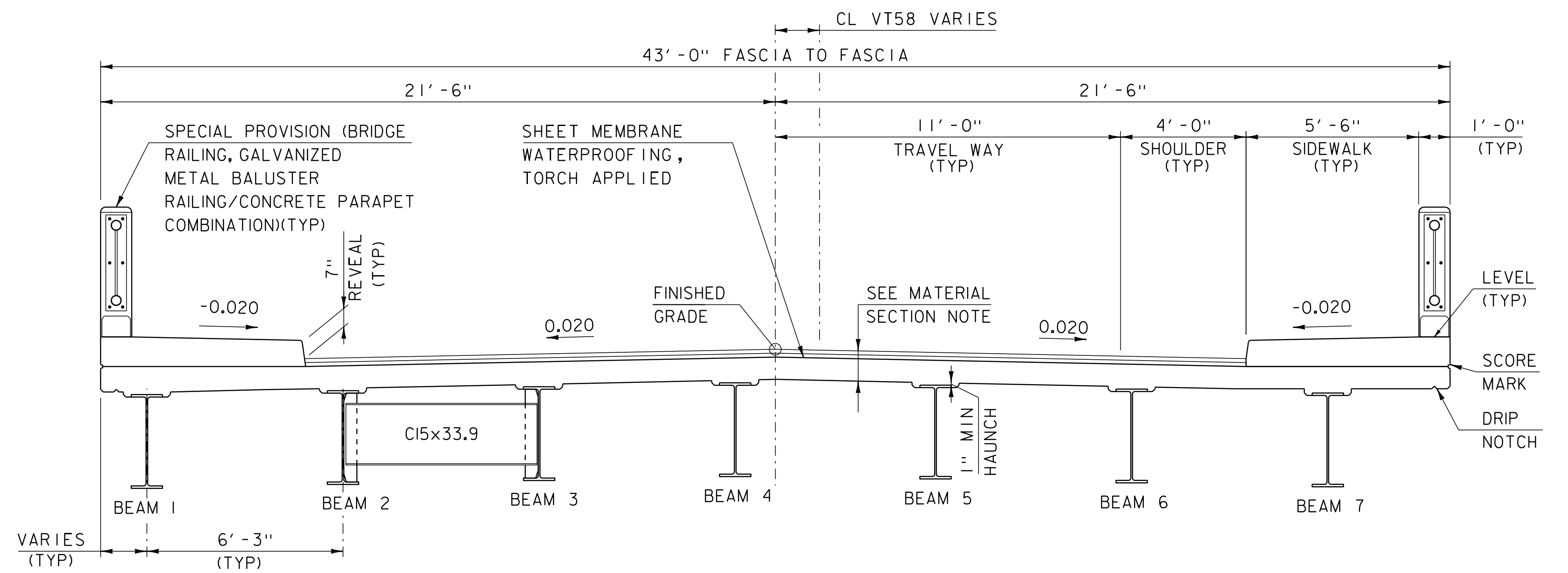
#### AS BUILT "REBAR" DETAIL

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

20 year ESAL for flexible pavement from 2016 to 2036 : 5144490  
 40 year ESAL for flexible pavement from 2016 to 2056 : 10288970  
 Design Speed : 30 mph



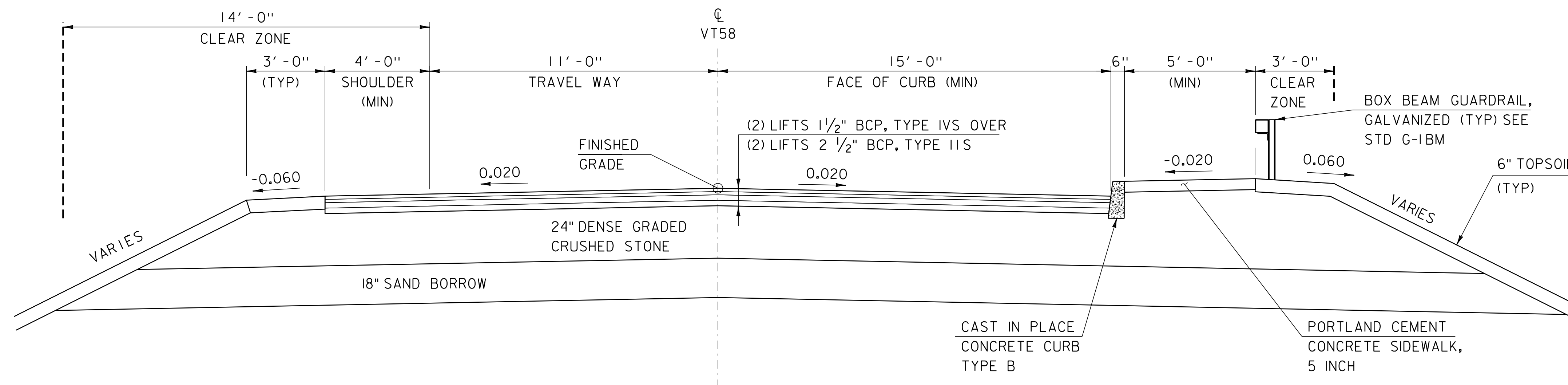
**COFFERDAM AND EARTHWORK SECTION**  
(NOT TO SCALE)



**MATERIAL SECTION**  
1 1/2" BCP, TYPE IVS  
1 1/2" BCP, TYPE IVS  
SHEET MEMBRANE WATERPROOFING, TORCH APPLIED  
8 1/2" HIGH PERFORMANCE CONCRETE, CLASS A

**BRIDGE TYPICAL SECTION**

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



**WITHOUT SIDEWALK**

**VT 58 TYPICAL SECTION**

**WITH SIDEWALK**

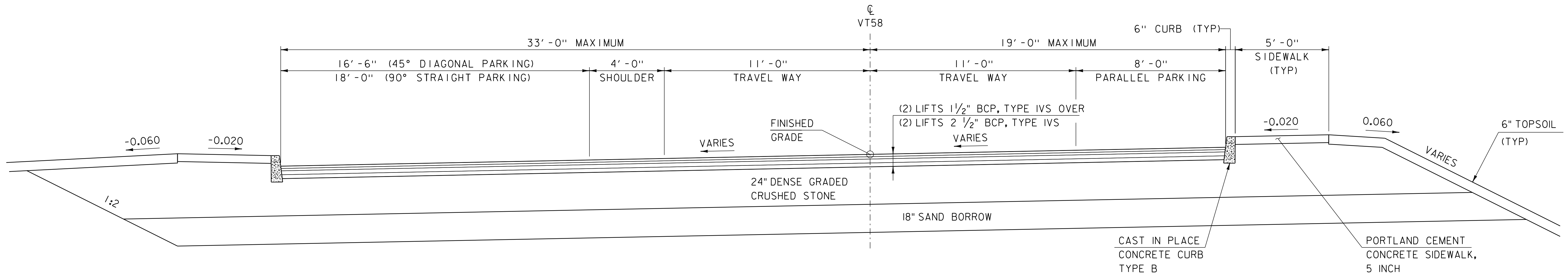
SCALE: 3/8" = 1'-0"

1. SHOULDER SLOPES VARY, SEE BANKING DIAGRAM FOR ROADWAY CROSS SLOPES.

MATERIAL TOLERANCES (IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	
SAND BORROW	+/- 1"

TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT, 0.08 GAL/SY FOR EMULSION ON MILLED SURFACES, OR AS DIRECTED THE ENGINEER.

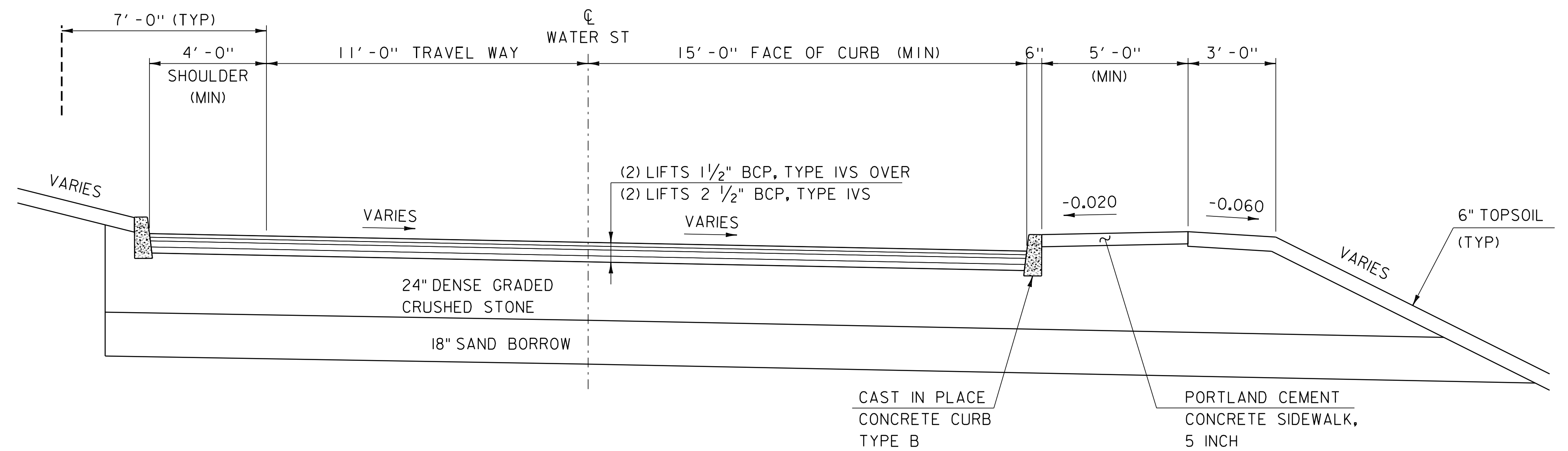
PROJECT NAME: ORLEANS VILLAGE	PLOT DATE: 05-MAR-2018
PROJECT NUMBER: BF 0310(7)	DRAWN BY: M. LONGSTREET
FILE NAME: s13j084+yp.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. CARLSON	SHEET 3 OF 47
DESIGNED BY: D. PETERSON	TYPICAL SECTIONS 1



### MAPLE ST TYPICAL SECTION

SCALE:  $\frac{3}{8}$ " = 1'-0"

1. SEE MAPLE ST BANKING DIAGRAM FOR ROADWAY CROSS SLOPES.
2. SEE THE "SIGNS & PAVEMENT MARKINGS" SHEET FOR PARKING SPACE DIMENSIONS AND LOCATIONS.



### WATER ST TYPICAL SECTION

SCALE:  $\frac{3}{8}$ " = 1'-0"

1. SEE WATER ST BANKING DIAGRAM FOR ROADWAY CROSS SLOPES.

PROJECT NAME:	ORLEANS VILLAGE
PROJECT NUMBER:	BF 0310(7)
FILE NAME:	sl3j084+yp.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	D. PETERSON
TYPICAL SECTIONS 2	
PLOT DATE:	05-MAR-2018
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D. PETERSON
SHEET	4 OF 47



**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

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

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

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
R.T.& I.	RIGHTS, 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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

**UTILITY SYMBOLGY**

**UNDERGROUND UTILITIES**

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

**ABOVE GROUND UTILITIES (AERIAL)**

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

**PROJECT CONSTRUCTION SYMBOLGY**

**PROJECT DESIGN & LAYOUT SYMBOLGY**

— CZ —	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

**PROJECT CONSTRUCTION FEATURES**

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

**CONVENTIONAL BOUNDARY SYMBOLGY**

**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	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**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 SYMBOLGY

**ENVIRONMENTAL RESOURCES**

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

**ARCHEOLOGICAL & HISTORIC**

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

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

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

PROJECT NAME: ORLEANS VILLAGE

PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084forms.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: D. PETERSON  
LEGEND SHEET

PLOT DATE: 05-MAR-2018  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 10 OF 47

GPS CONTROL POINTS

HVCTRL #1

BARTON AZ MK

NORTH = 840479.670  
EAST = 1714921.880  
ELEV. = 842.210

GENERAL LOCATION: BARTON, VERMONT. IN THE 191 MEDIAN, 10.5 M SOUTHEAST OF AND ABOUT 0.7 M LOWER THAN THE EDGE OF PAVEMENT OF THE SB LANE, 18.1 M NORTHWEST OF THE EDGE OF PAVEMENT OF THE NB LANE, 91.9 M SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE SB BRIDGE ABUTMENT OVER ROUTES 5 AND 58, 96.3 M SOUTH-SOUTHWEST OF THE SOUTHWEST CORNER OF THE NB BRIDGE ABUTMENT OVER ROUTES 5 AND 58, 9.9 M SOUTH OF THE CENTER OF A 60 CM METAL DRAIN, 8.3 M WEST OF THE CENTER OF A 60 CM METAL DRAIN, AND 4.5 M NORTHEAST OF A WITNESS POST

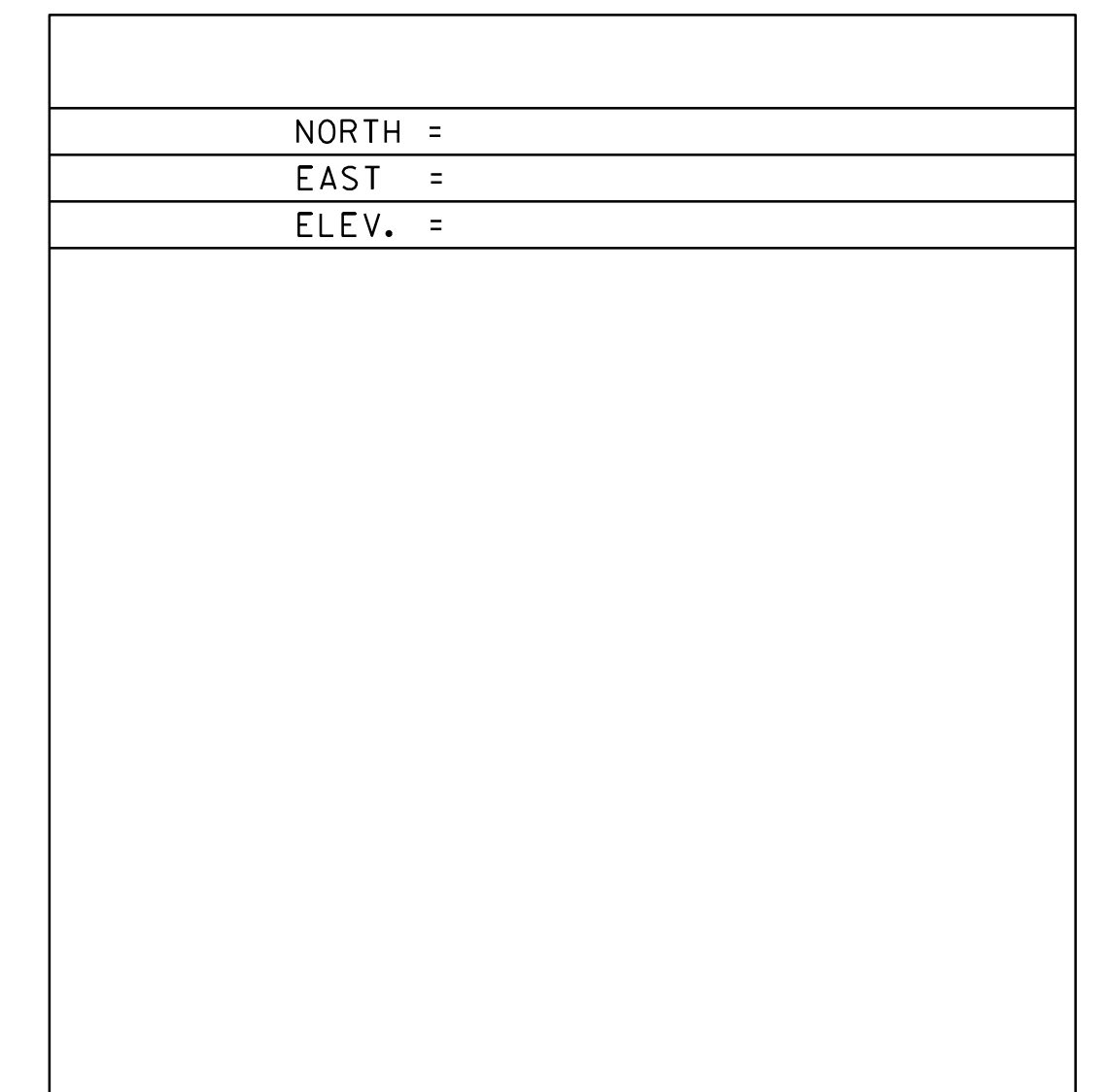
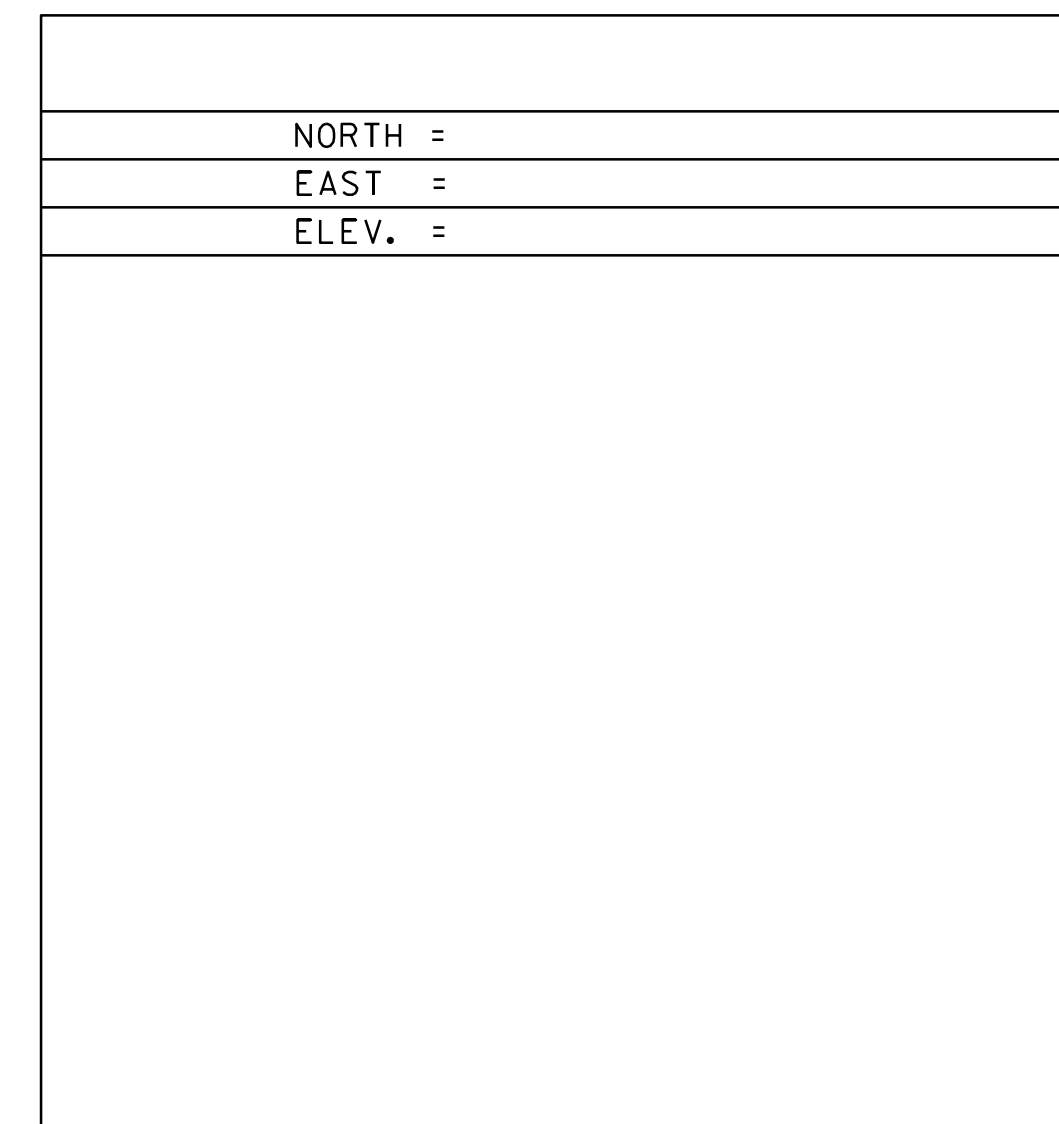
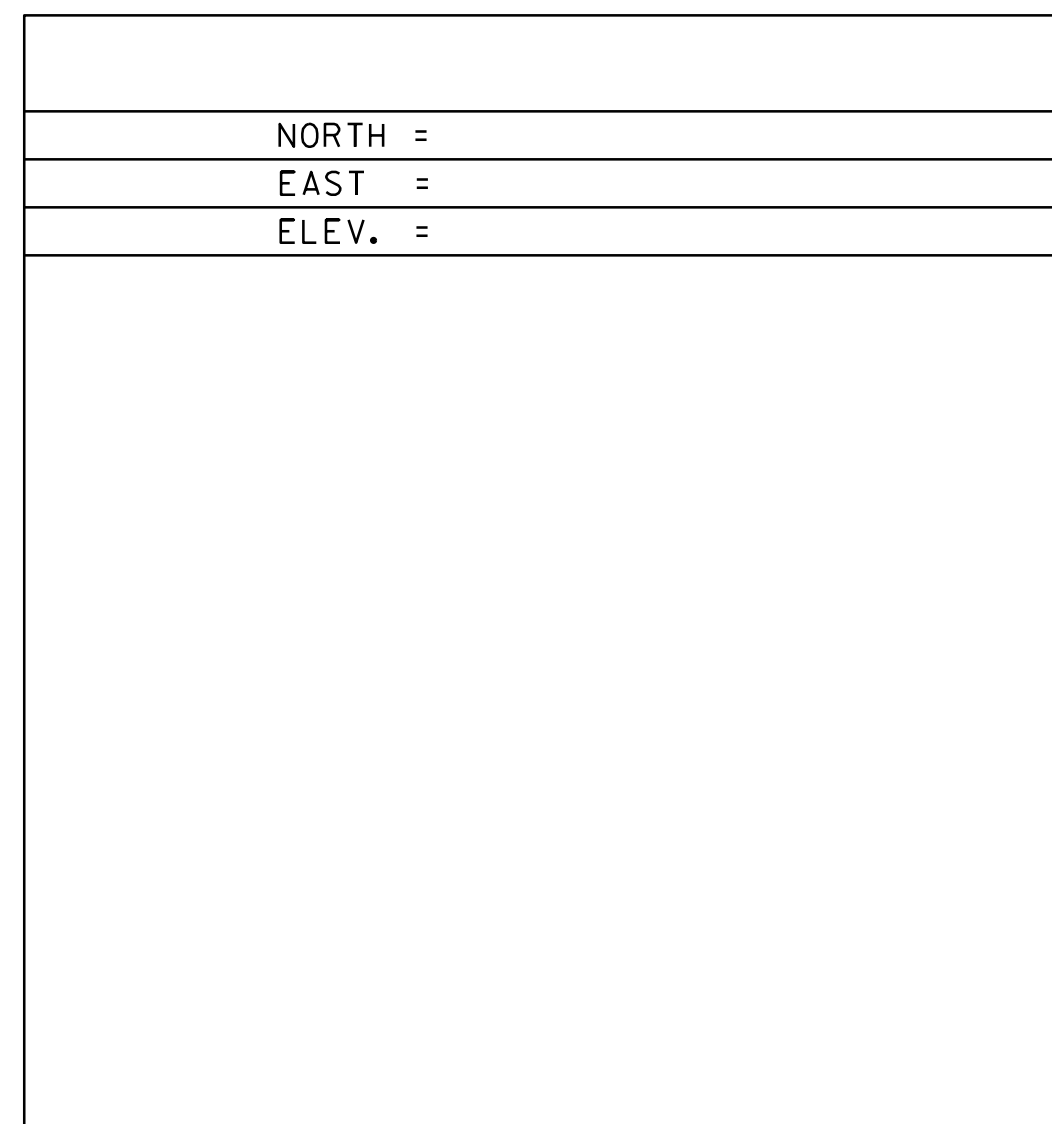
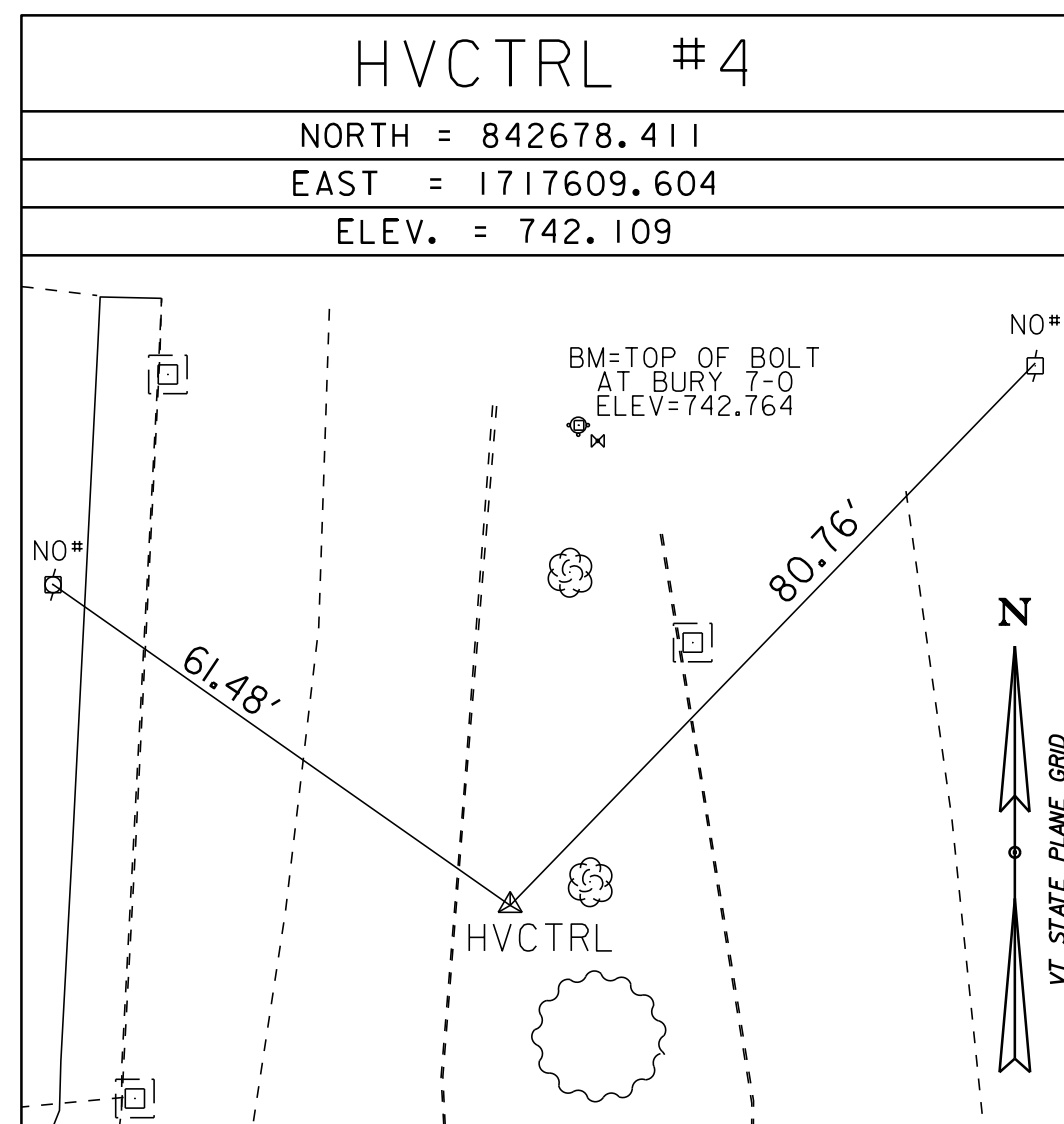
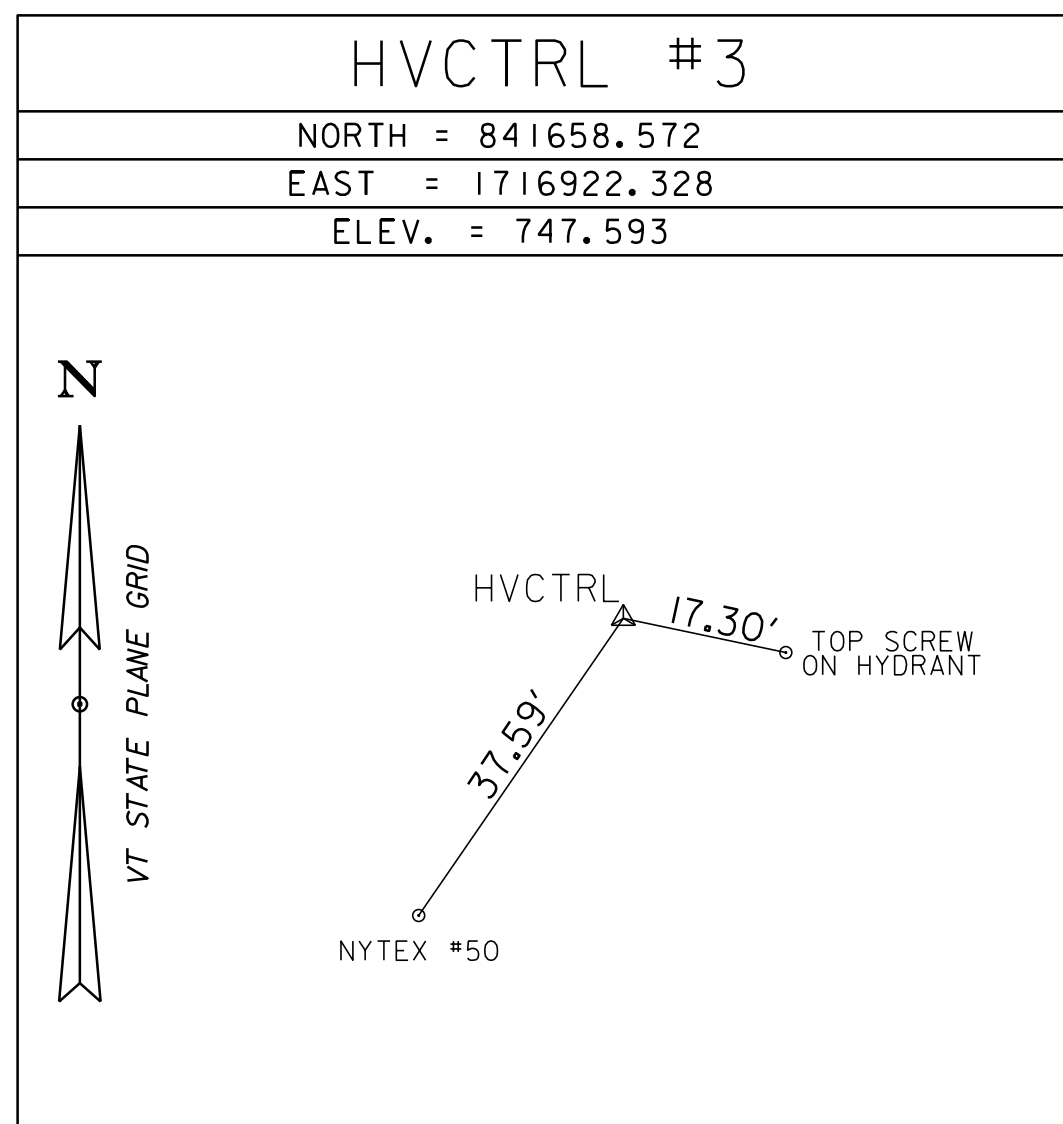
HVCTRL #2

BARTON

NORTH = 841378.900  
EAST = 1716253.640  
ELEV. = 779.870

GENERAL LOCATION: BARTON, VT. SOUTHWEST OF THE VILLAGE OF ORLEANS. ABOUT 30 M NORTHEAST OF THE ROUTE 5 AND ROUTE 58 INTERSECTION. 12.1 M (39.7 FT) NORTH OF AND ABOUT 4.0 M (13.1 FT) HIGHER THAN THE NORTH EDGE OF PAVEMENT OF VT ROUTE 58, 16.2 M (53.1 FT) NORTHEAST OF A WOODEN STRAIN POLE, 5.6 M (18.4 FT) SOUTH-SOUTHWEST OF A 25 CM (10 INCH) PINE, AND 4.9 M (16.1 FT) SOUTH-SOUTHWEST OF A FIBERGLASS WITNESS POST IN THE RIGHT-OF-WAY FENCE.

TRAVERSE TIES



ALIGNMENT TIES

CONTROL LINE DATA - VT 58

POINT ID	STATION	NORTHING	EASTING	RADIUS	DELTA	ARC	L	T	CHORD	MIDDLE ORDINATE	EXTRL.
POB	39+25.00	842415.0500	1717409.4800								
PC	40+00.00	842476.9800	1717451.8000	300	58°39'20" Right	19°05'55"	307.12'	168.54'	293.88'	38.45'	44.10'
PI	41+68.54	842616.1400	1717546.8800								
PCC		842307.7300	1717699.5000								
PT	43+07.12	842607.3200	1717715.2000								
POE	44+25.00	842601.1500	1717832.9100								

CONTROL LINE DATA - WATER ST

POINT ID	STATION	NORTHING	EASTING
POB	60+00.00	842604.8300	1717657.9300
POE	61+50.00	842461.7200	1717702.8700

CONTROL LINE DATA - MAPLE ST

POINT ID	STATION	NORTHING	EASTING	RADIUS	DELTA	ARC	L	T	CHORD	MIDDLE ORDINATE	EXTRL.
POB	80+00.00	842604.8300	1717657.9300								
PC	81+47.81	842745.8500	1717613.6500	400	10°53'30.87" Left	14°19'26.20"	76.04'	38.13'	75.93'	1.81'	1.81'
PI	81+88.33	842784.5200	1717601.5100								
PCC		842820.7500	1717852.1700								
PT	82+28.16	842825.0400	1717602.2100								
POE	83+00.00	8428896.8700	1717603.4400								

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	S. DONOVAN
FILE NAME:	sl3j084+ie.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	TIE SHEET	SHEET II OF 47
DESIGNED BY:	D. PETERSON		

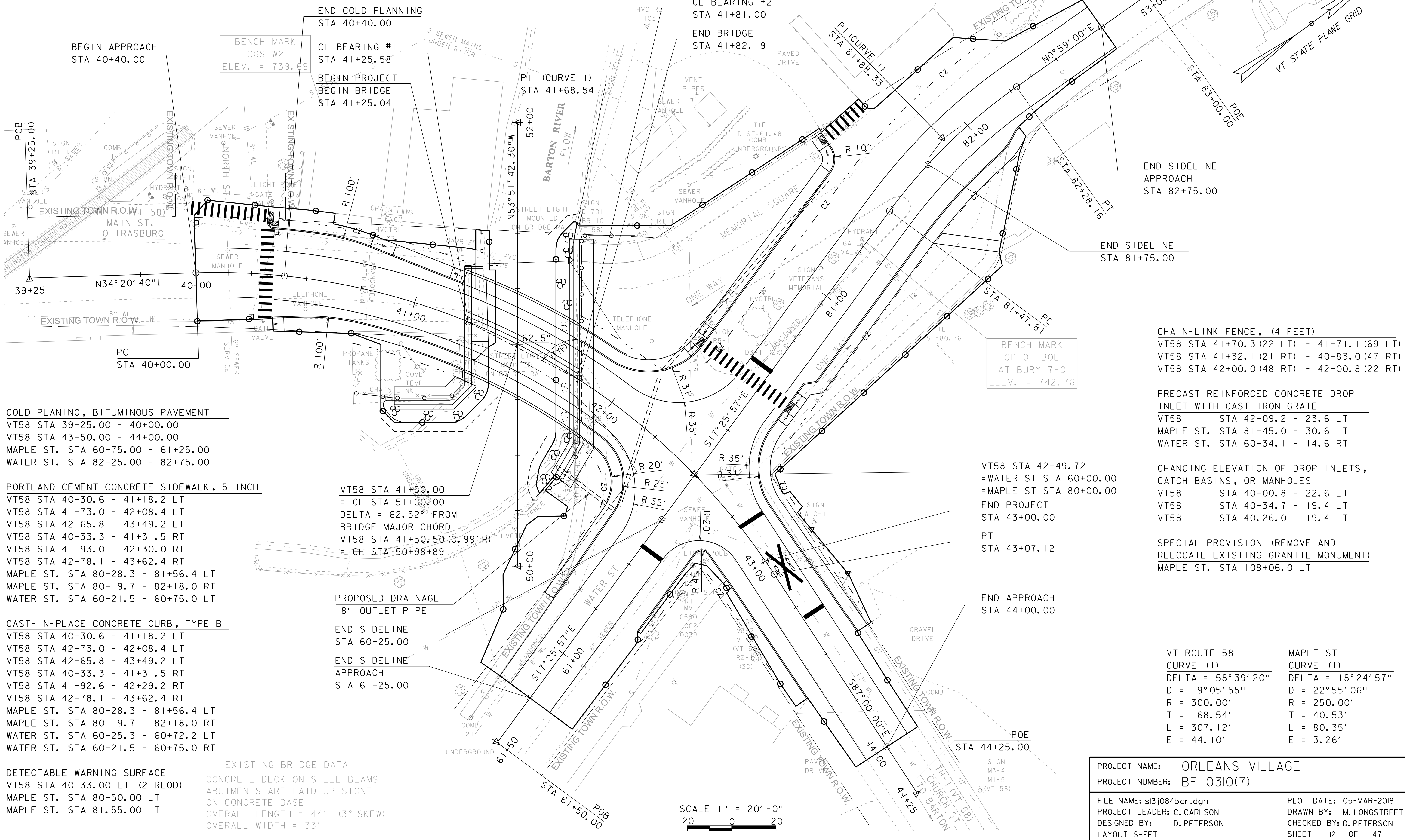


REMOVAL AND DISPOSAL OF GUARDRAIL  
 VT58 STA 41+54.9 - VT58 41+72.2 LT

REMOVAL OF EXISTING FENCE  
 VT58 STA 40+87.6 - 41+32.5 RT  
 VT58 STA 41+85.7 - 42+14.6 RT

BOX BEAM GUARDRAIL  
 VT58 STA 41+69.9 - 41+93.2 LT  
 VT58 STA 41+02.7 - 41+32.8 RT  
 VT58 STA 41+96.7 - 42+29.5 RT

SPECIAL PROVISION (BRIDGE RAILING,  
 GALVANIZED METAL BALUSTER RAILING/  
 CONCRETE PARAPET COMBINATION)  
 VT58 STA 41+15.9 - 41+69.9 LT  
 VT58 STA 41+32.9 - 41+97.7 RT  
 VT58 STA 41+15.9 - 41+17.0 LT (SIM)



COLD PLANING, BITUMINOUS PAVEMENT  
 VT58 STA 39+25.00 - 40+00.00  
 VT58 STA 43+50.00 - 44+00.00  
 MAPLE ST. STA 60+75.00 - 61+25.00  
 WATER ST. STA 82+25.00 - 82+75.00

PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH  
 VT58 STA 40+30.6 - 41+18.2 LT  
 VT58 STA 41+73.0 - 42+08.4 LT  
 VT58 STA 42+65.8 - 43+49.2 LT  
 VT58 STA 40+33.3 - 41+31.5 RT  
 VT58 STA 41+93.0 - 42+30.0 RT  
 VT58 STA 42+78.1 - 43+62.4 RT  
 MAPLE ST. STA 80+28.3 - 81+56.4 LT  
 MAPLE ST. STA 80+19.7 - 82+18.0 RT  
 WATER ST. STA 60+21.5 - 60+75.0 LT

CAST-IN-PLACE CONCRETE CURB, TYPE B  
 VT58 STA 40+30.6 - 41+18.2 LT  
 VT58 STA 42+73.0 - 42+08.4 LT  
 VT58 STA 42+65.8 - 43+49.2 LT  
 VT58 STA 40+33.3 - 41+31.5 RT  
 VT58 STA 41+92.6 - 42+29.2 RT  
 VT58 STA 42+78.1 - 43+62.4 RT  
 MAPLE ST. STA 80+28.3 - 81+56.4 LT  
 MAPLE ST. STA 80+19.7 - 82+18.0 RT  
 WATER ST. STA 60+25.3 - 60+72.2 LT  
 WATER ST. STA 60+21.5 - 60+75.0 RT

DETECTABLE WARNING SURFACE  
 VT58 STA 40+33.00 LT (2 REQD)  
 MAPLE ST. STA 80+50.00 LT  
 MAPLE ST. STA 81.55.00 LT

EXISTING BRIDGE DATA  
 CONCRETE DECK ON STEEL BEAMS  
 ABUTMENTS ARE LAID UP STONE  
 ON CONCRETE BASE  
 OVERALL LENGTH = 44' (3° SKEW)  
 OVERALL WIDTH = 33'

VT58 STA 41+50.00  
 = CH STA 51+00.00  
 DELTA = 62.52° FROM  
 BRIDGE MAJOR CHORD  
 VT58 STA 41+50.50 (0.99' R)  
 = CH STA 50+98+89

PROPOSED DRAINAGE  
 18" OUTLET PIPE

END SIDELINE  
 STA 60+25.00

END SIDELINE  
 APPROACH  
 STA 61+25.00

BENCH MARK  
 TOP OF BOLT  
 AT BURY 7-0  
 ELEV. = 742.76

CHAIN-LINK FENCE, (4 FEET)  
 VT58 STA 41+70.3 (22 LT) - 41+71.1 (69 LT)  
 VT58 STA 41+32.1 (21 RT) - 40+83.0 (47 RT)  
 VT58 STA 42+00.0 (48 RT) - 42+00.8 (22 RT)

PRECAST REINFORCED CONCRETE DROP  
 INLET WITH CAST IRON GRATE  
 VT58 STA 42+09.2 - 23.6 LT  
 MAPLE ST. STA 81+45.0 - 30.6 LT  
 WATER ST. STA 60+34.1 - 14.6 RT

CHANGING ELEVATION OF DROP INLETS,  
 CATCH BASINS, OR MANHOLES  
 VT58 STA 40+00.8 - 22.6 LT  
 VT58 STA 40+34.7 - 19.4 LT  
 VT58 STA 40.26.0 - 19.4 LT

SPECIAL PROVISION (REMOVE AND  
 RELOCATE EXISTING GRANITE MONUMENT)  
 MAPLE ST. STA 108+06.0 LT

VT58 STA 42+49.72  
 = WATER ST STA 60+00.00  
 = MAPLE ST STA 80+00.00

END PROJECT  
 STA 43+00.00

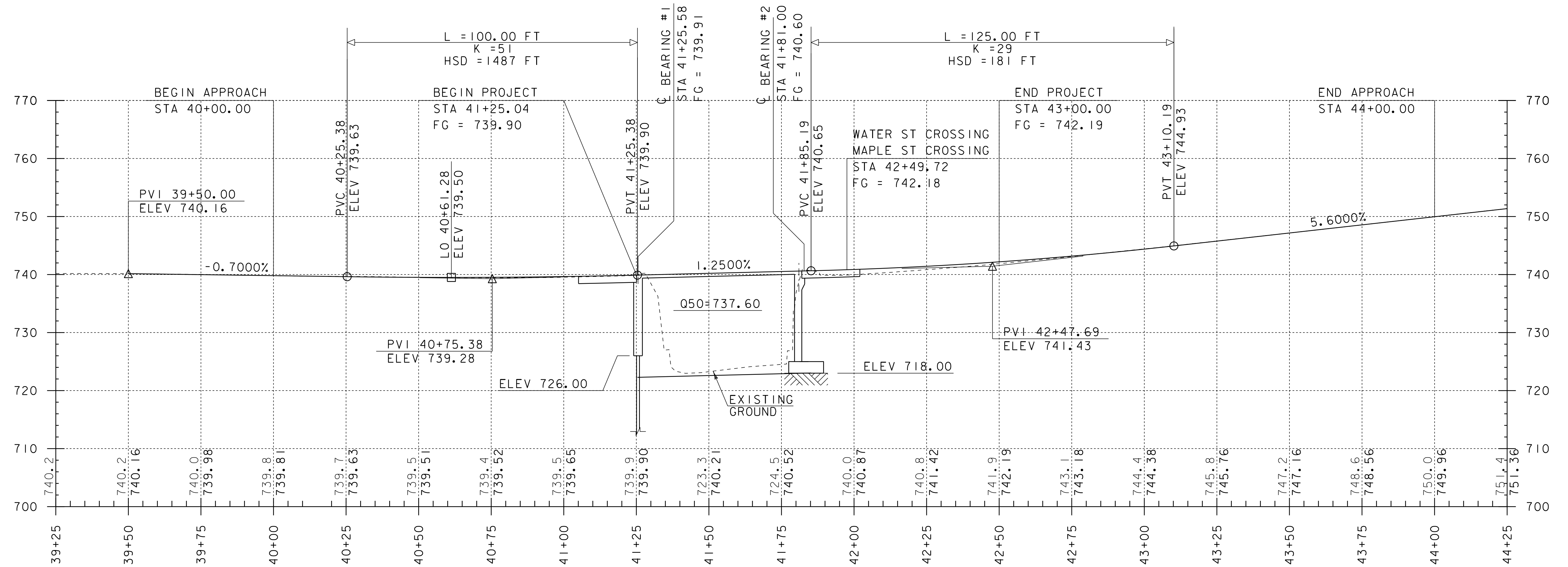
PT  
 STA 43+07.12

END APPROACH  
 STA 44+00.00

VT ROUTE 58	MAPLE ST
CURVE (1)	CURVE (1)
DELTA = 58° 39' 20"	DELTA = 18° 24' 57"
D = 19° 05' 55"	D = 22° 55' 06"
R = 300.00'	R = 250.00'
T = 168.54'	T = 40.53'
L = 307.12'	L = 80.35'
E = 44.10'	E = 3.26'

PROJECT NAME:	ORLEANS VILLAGE	FILE NAME:	s13j084bdr.dgn	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	PROJECT LEADER:	C. CARLSON	DRAWN BY:	M. LONGSTREET
		DESIGNED BY:	D. PETERSON	CHECKED BY:	D. PETERSON
		LAYOUT SHEET		SHEET	12 OF 47

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



**VT58 (TH-1) PROFILE**

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

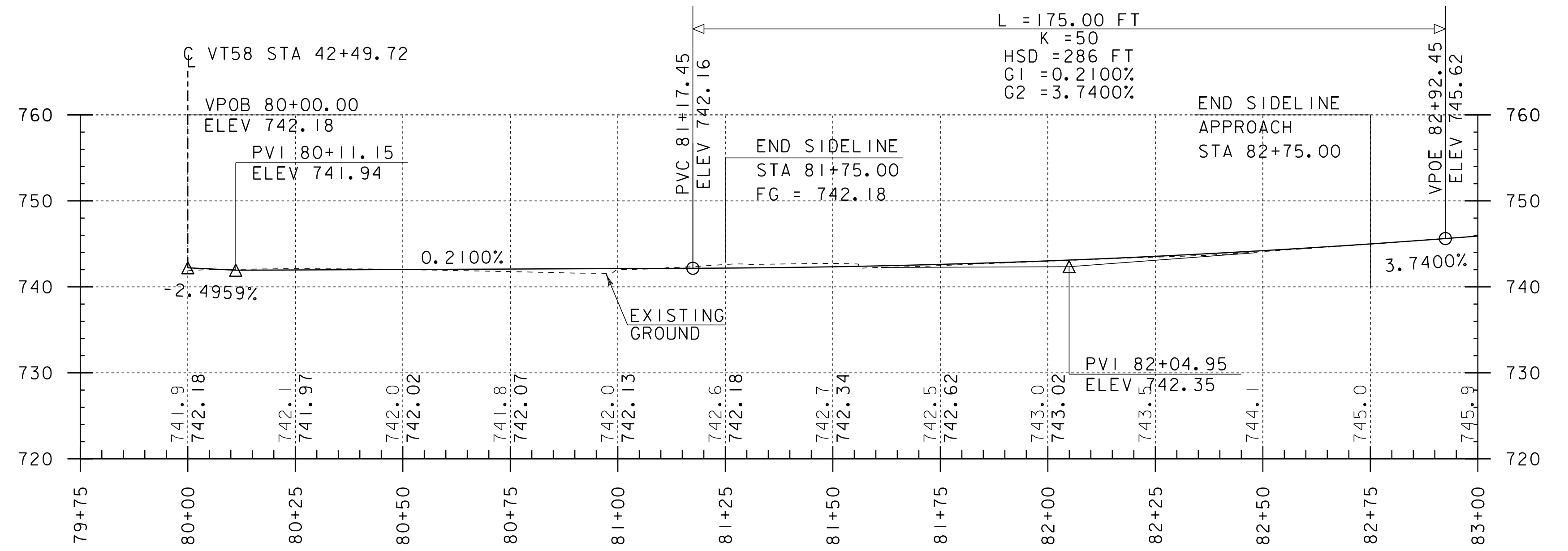
**NOTE:**

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

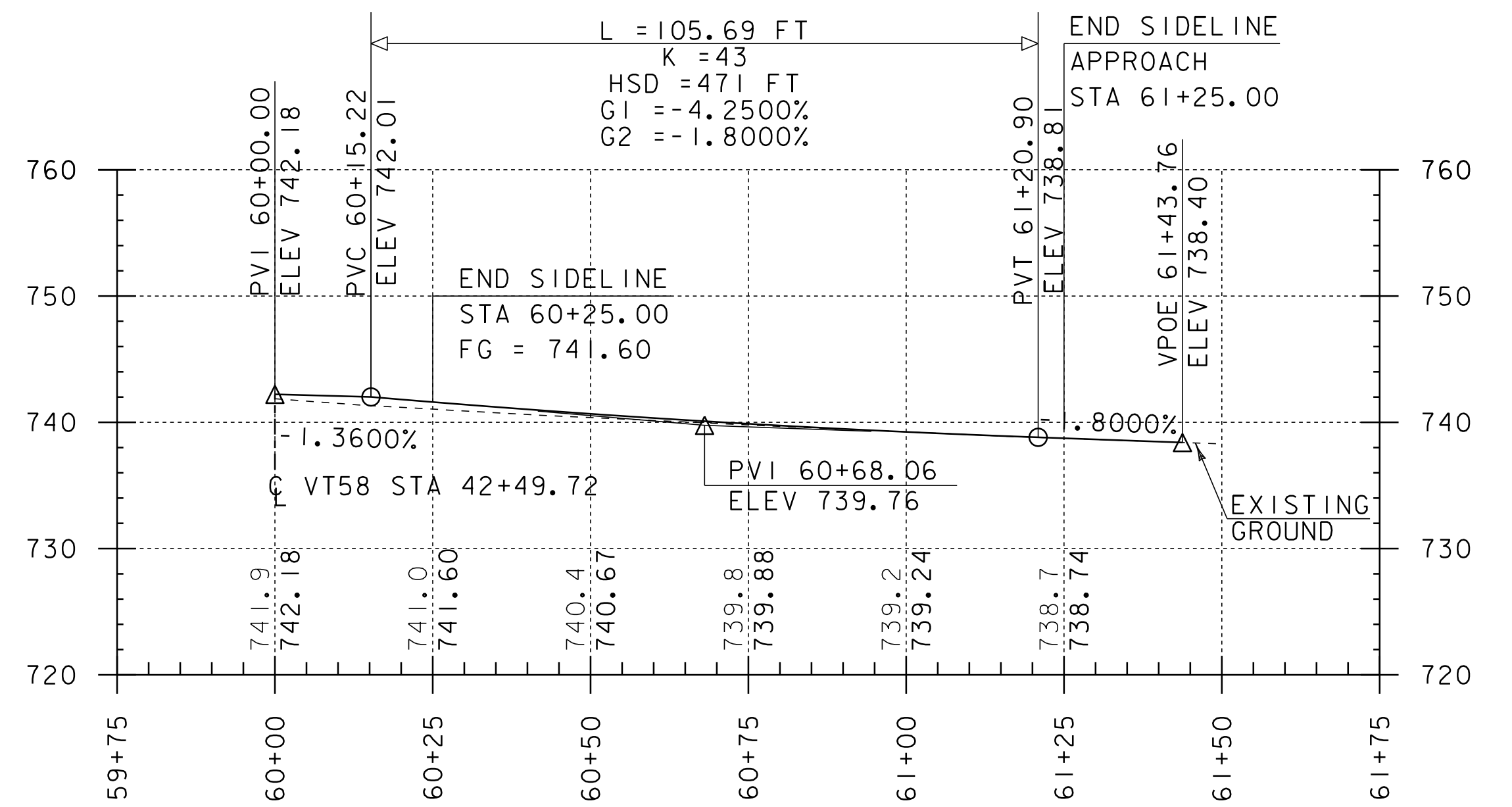
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084pro.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 (TH-1) PROFILE	SHEET 13 OF 47





**MAPLE STREET PROFILE**

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



**WATER STREET PROFILE**

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

**NOTE:**

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

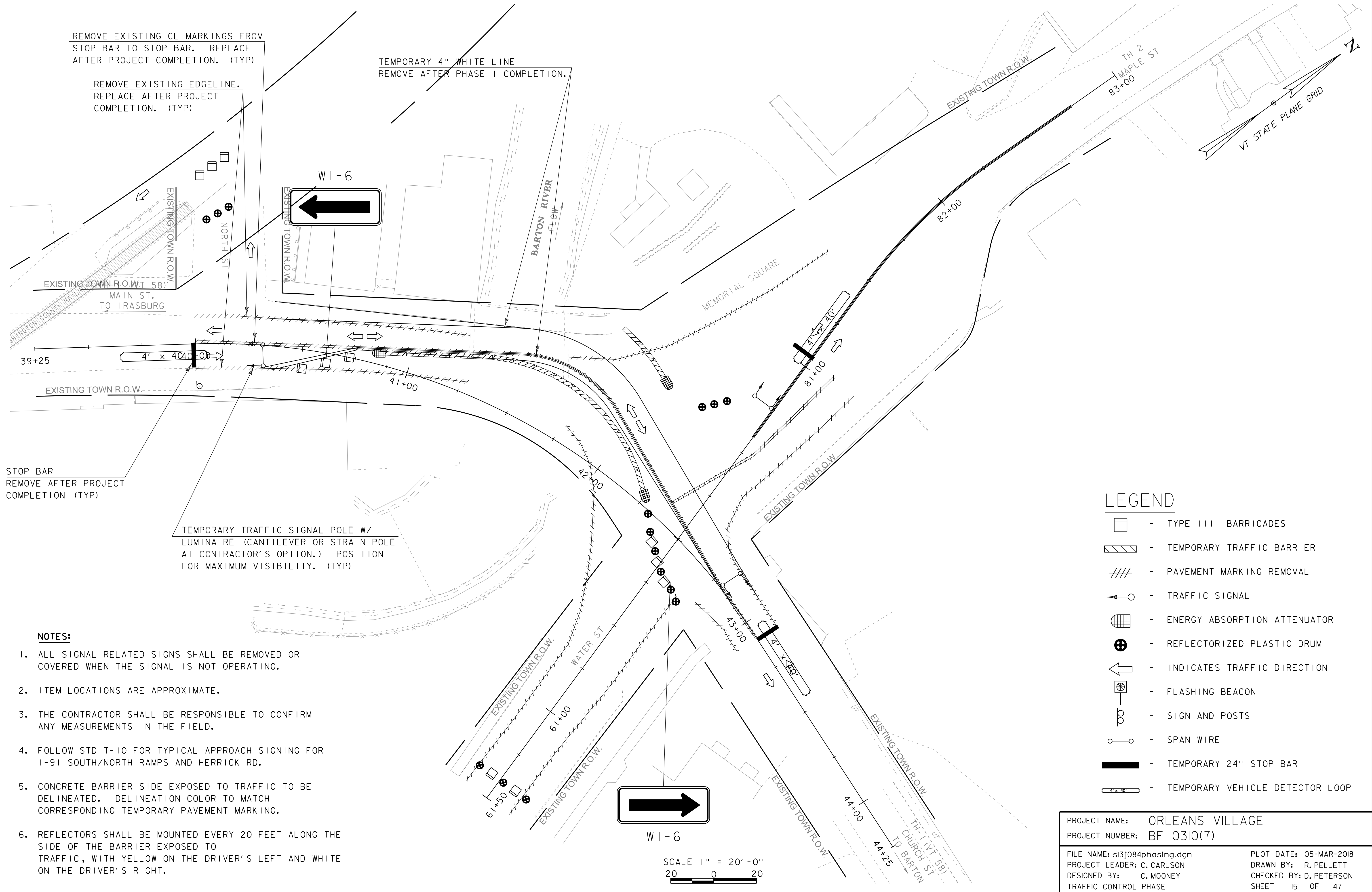
ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

PROJECT NAME:	ORLEANS VILLAGE
PROJECT NUMBER:	BF 0310(7)
FILE NAME:	sl3j084pro.dgn
PROJECT LEADER:	C. CARLSON
DESIGNED BY:	D. PETERSON
RIVER ST & MAPLE ST PROFILES	
PLOT DATE:	05-MAR-2018
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D. PETERSON
SHEET	14 OF 47

REMOVE EXISTING CL MARKINGS FROM STOP BAR TO STOP BAR. REPLACE AFTER PROJECT COMPLETION. (TYP)

REMOVE EXISTING EDGELINE. REPLACE AFTER PROJECT COMPLETION. (TYP)

TEMPORARY 4" WHITE LINE REMOVE AFTER PHASE I COMPLETION.



STOP BAR REMOVE AFTER PROJECT COMPLETION (TYP)

TEMPORARY TRAFFIC SIGNAL POLE W/ LUMINAIRE (CANTILEVER OR STRAIN POLE AT CONTRACTOR'S OPTION.) POSITION FOR MAXIMUM VISIBILITY. (TYP)

**NOTES:**

1. ALL SIGNAL RELATED SIGNS SHALL BE REMOVED OR COVERED WHEN THE SIGNAL IS NOT OPERATING.
2. ITEM LOCATIONS ARE APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ANY MEASUREMENTS IN THE FIELD.
4. FOLLOW STD T-10 FOR TYPICAL APPROACH SIGNING FOR I-91 SOUTH/NORTH RAMPS AND HERRICK RD.
5. CONCRETE BARRIER SIDE EXPOSED TO TRAFFIC TO BE DELINEATED. DELINEATION COLOR TO MATCH CORRESPONDING TEMPORARY PAVEMENT MARKING.
6. REFLECTORS SHALL BE MOUNTED EVERY 20 FEET ALONG THE SIDE OF THE BARRIER EXPOSED TO TRAFFIC, WITH YELLOW ON THE DRIVER'S LEFT AND WHITE ON THE DRIVER'S RIGHT.

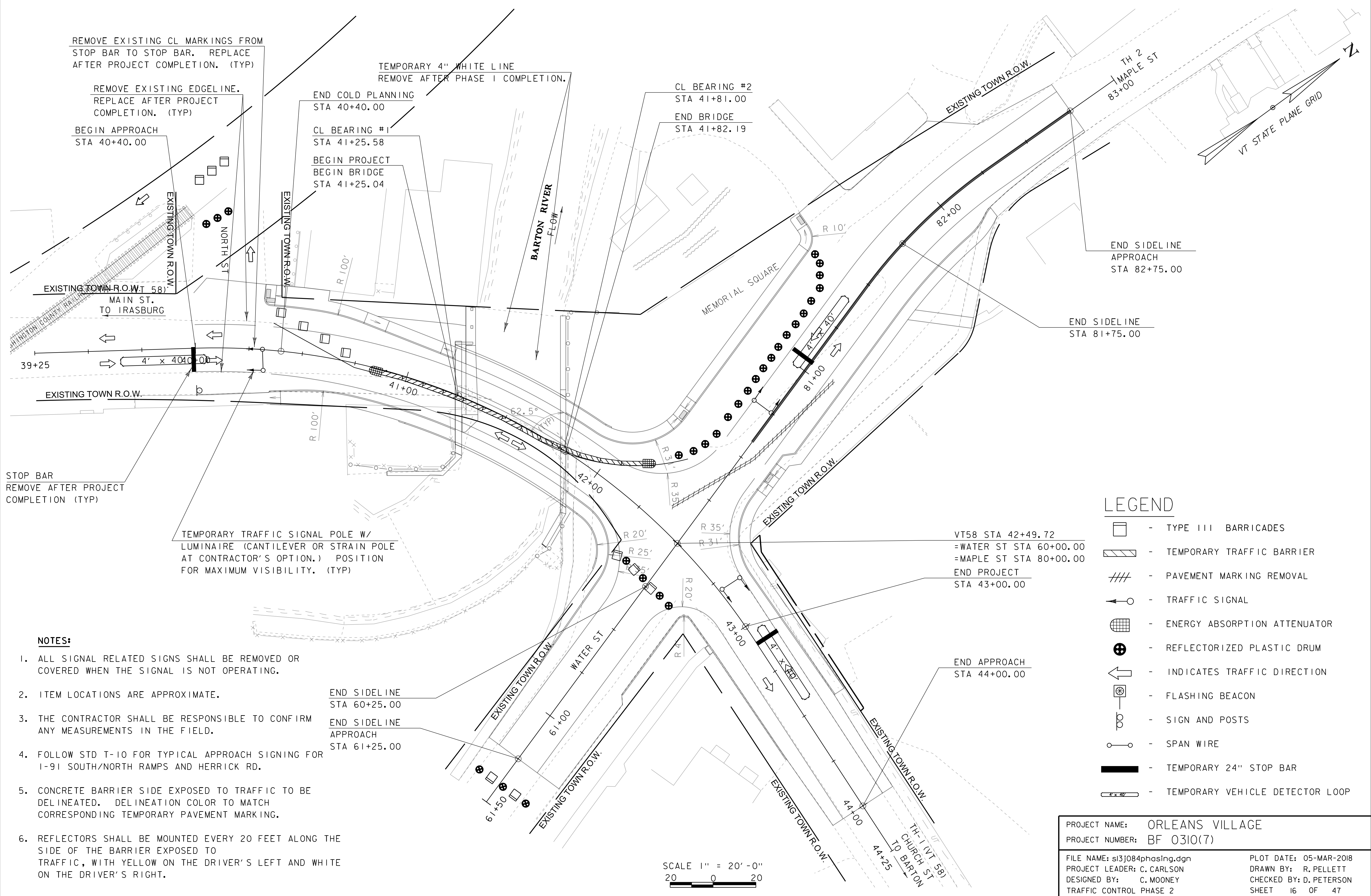
**LEGEND**

- TYPE III BARRICADES
- TEMPORARY TRAFFIC BARRIER
- PAVEMENT MARKING REMOVAL
- TRAFFIC SIGNAL
- ENERGY ABSORPTION ATTENUATOR
- REFLECTORIZED PLASTIC DRUM
- INDICATES TRAFFIC DIRECTION
- FLASHING BEACON
- SIGN AND POSTS
- SPAN WIRE
- TEMPORARY 24" STOP BAR
- TEMPORARY VEHICLE DETECTOR LOOP

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

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: sl3j084phasing.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: R. PELLETT
DESIGNED BY: C. MOONEY	CHECKED BY: D. PETERSON
TRAFFIC CONTROL PHASE I	SHEET 15 OF 47





REMOVE EXISTING CL MARKINGS FROM STOP BAR TO STOP BAR. REPLACE AFTER PROJECT COMPLETION. (TYP)

REMOVE EXISTING EDGELINE. REPLACE AFTER PROJECT COMPLETION. (TYP)

BEGIN APPROACH STA 40+40.00

END COLD PLANNING STA 40+40.00

CL BEARING #1 STA 41+25.58

BEGIN PROJECT  
BEGIN BRIDGE  
STA 41+25.04

TEMPORARY 4" WHITE LINE REMOVE AFTER PHASE I COMPLETION.

CL BEARING #2 STA 41+81.00

END BRIDGE STA 41+82.19

TH 2 MAPLE ST 83+00

END SIDELINE APPROACH STA 82+75.00

END SIDELINE STA 81+75.00

TEMPORARY TRAFFIC SIGNAL POLE W/ LUMINAIRE (CANTILEVER OR STRAIN POLE AT CONTRACTOR'S OPTION.) POSITION FOR MAXIMUM VISIBILITY. (TYP)

VT58 STA 42+49.72  
= WATER ST STA 60+00.00  
= MAPLE ST STA 80+00.00  
END PROJECT STA 43+00.00

END APPROACH STA 44+00.00

END SIDELINE STA 60+25.00

END SIDELINE APPROACH STA 61+25.00

**NOTES:**

1. ALL SIGNAL RELATED SIGNS SHALL BE REMOVED OR COVERED WHEN THE SIGNAL IS NOT OPERATING.
2. ITEM LOCATIONS ARE APPROXIMATE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ANY MEASUREMENTS IN THE FIELD.
4. FOLLOW STD T-10 FOR TYPICAL APPROACH SIGNING FOR I-91 SOUTH/NORTH RAMPS AND HERRICK RD.
5. CONCRETE BARRIER SIDE EXPOSED TO TRAFFIC TO BE DELINEATED. DELINEATION COLOR TO MATCH CORRESPONDING TEMPORARY PAVEMENT MARKING.
6. REFLECTORS SHALL BE MOUNTED EVERY 20 FEET ALONG THE SIDE OF THE BARRIER EXPOSED TO TRAFFIC, WITH YELLOW ON THE DRIVER'S LEFT AND WHITE ON THE DRIVER'S RIGHT.

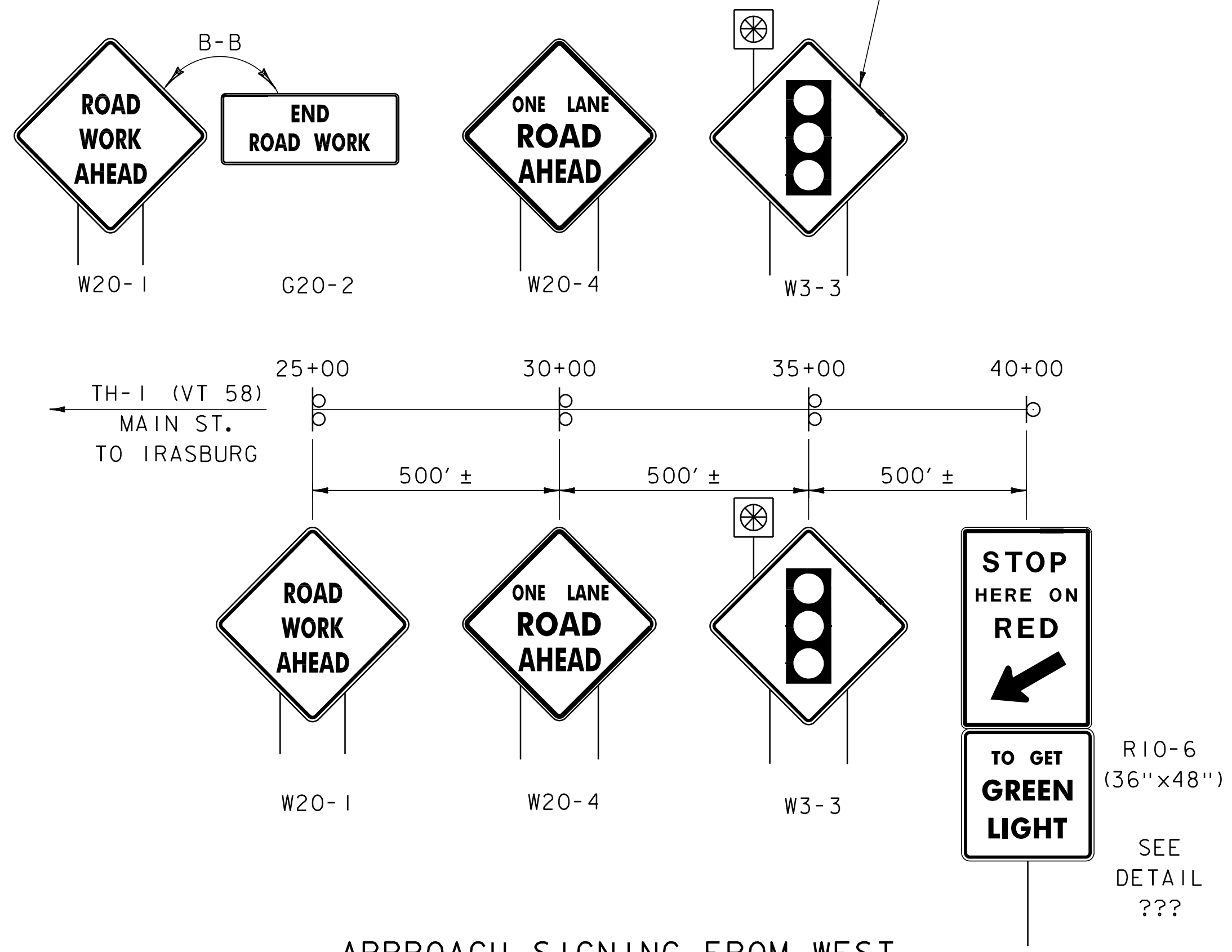
**LEGEND**

- TYPE III BARRICADES
- TEMPORARY TRAFFIC BARRIER
- PAVEMENT MARKING REMOVAL
- TRAFFIC SIGNAL
- ENERGY ABSORPTION ATTENUATOR
- REFLECTORIZED PLASTIC DRUM
- INDICATES TRAFFIC DIRECTION
- FLASHING BEACON
- SIGN AND POSTS
- SPAN WIRE
- TEMPORARY 24" STOP BAR
- TEMPORARY VEHICLE DETECTOR LOOP

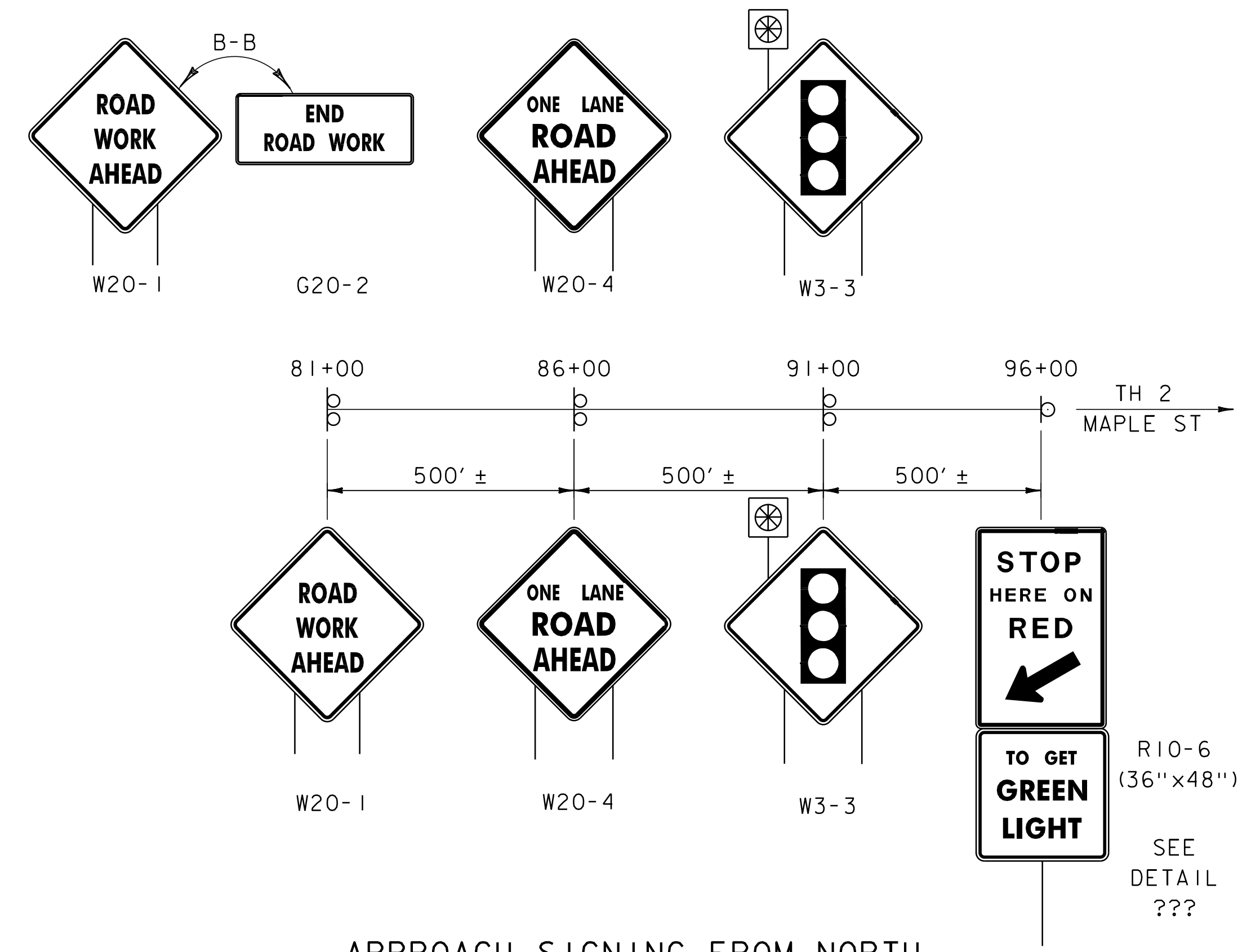
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084phasing.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: R. PELLETT
DESIGNED BY: C. MOONEY	CHECKED BY: D. PETERSON
TRAFFIC CONTROL PHASE 2	SHEET 16 OF 47

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

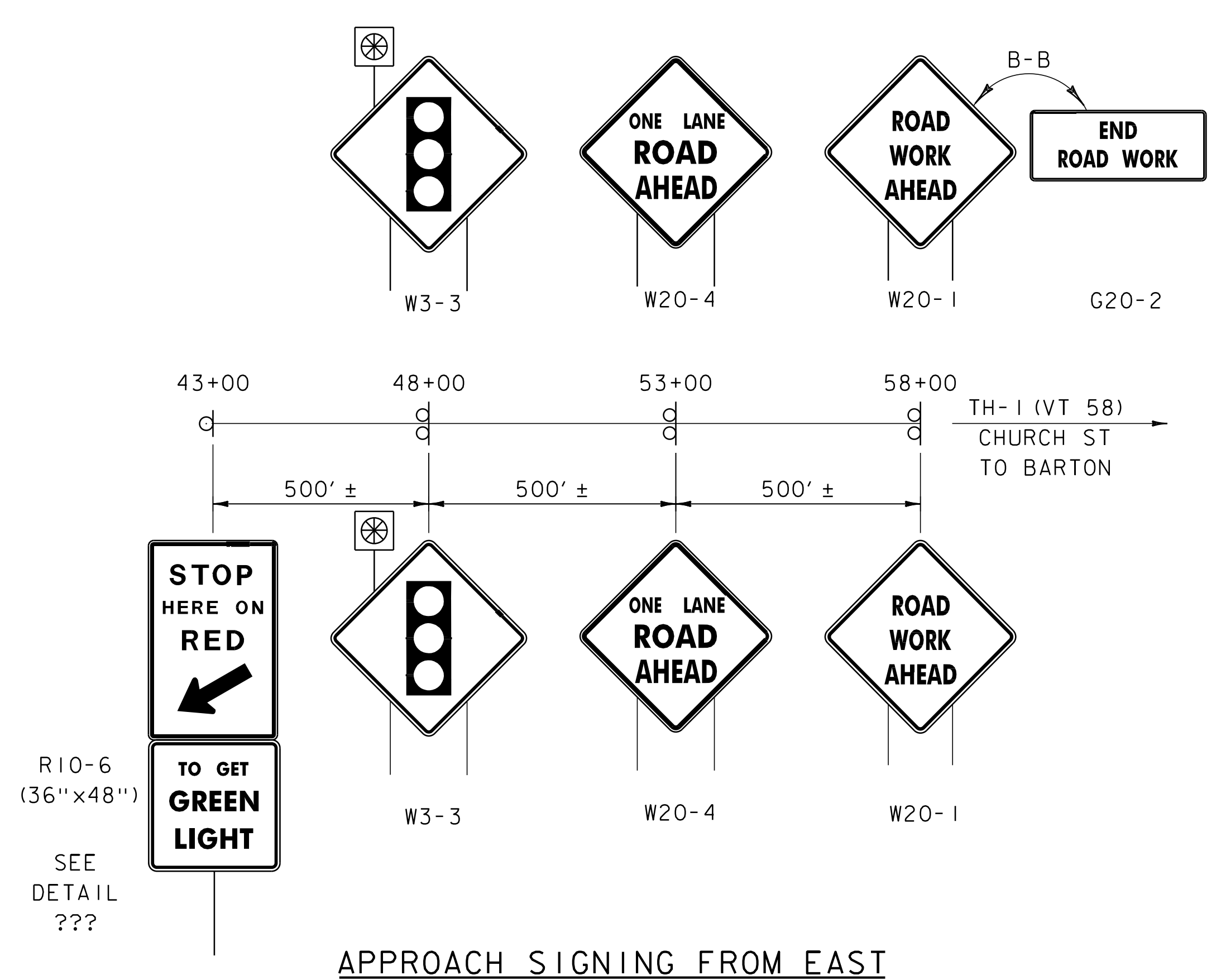
USE 48" x 48" (ORANGE)  
W/ FLASHING BEACON (TYP)



APPROACH SIGNING FROM WEST



APPROACH SIGNING FROM NORTH



APPROACH SIGNING FROM EAST



COLORS: BLACK TEXT & BORDER  
WHITE REFL. BACKGROUND

MATERIALS: PER STD T-2

TITLE

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084phasing.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
TRAFFIC CONTROL SIGNS	SHEET 17 OF 47

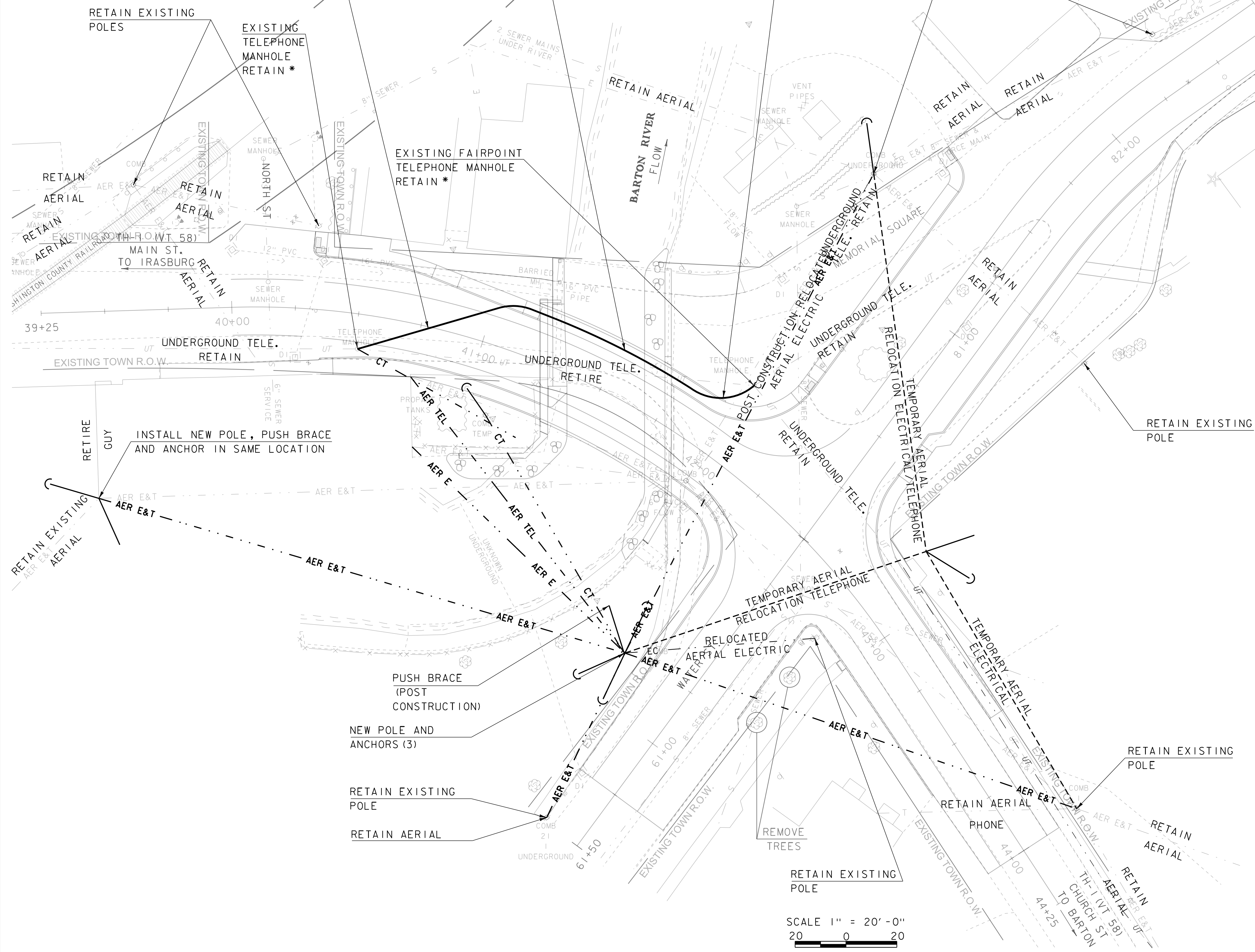
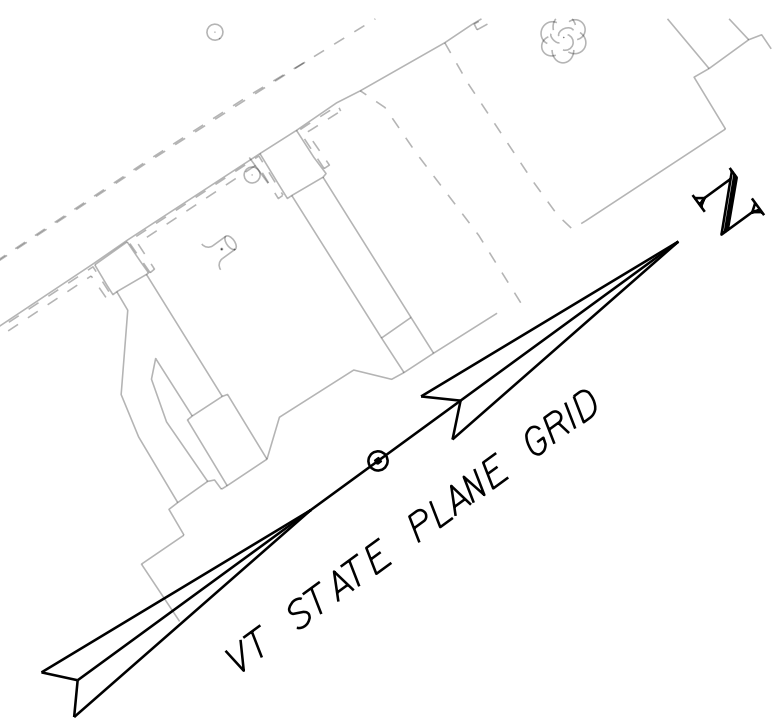


SEE DETAIL A ON  
UTILITY DETAILS SHEET  
79' CONCRETE ENCASED DUCTS  
(4 DUCTS) (4" PVC)  
SPECIAL PROVISION (UTILITY  
DUCT BANK) (4 CONDUIT)

SEE DETAIL B ON  
UTILITY DETAILS SHEET  
4 DUCTS (4" X 52')  
ENCASED IN CONCRETE  
SIDEWALK

SEE DETAIL A ON  
UTILITY DETAILS SHEET  
35' CONCRETE ENCASED DUCTS  
(4 DUCTS) (4" PVC)  
SPECIAL PROVISION (UTILITY  
DUCT BANK) (4 CONDUIT)

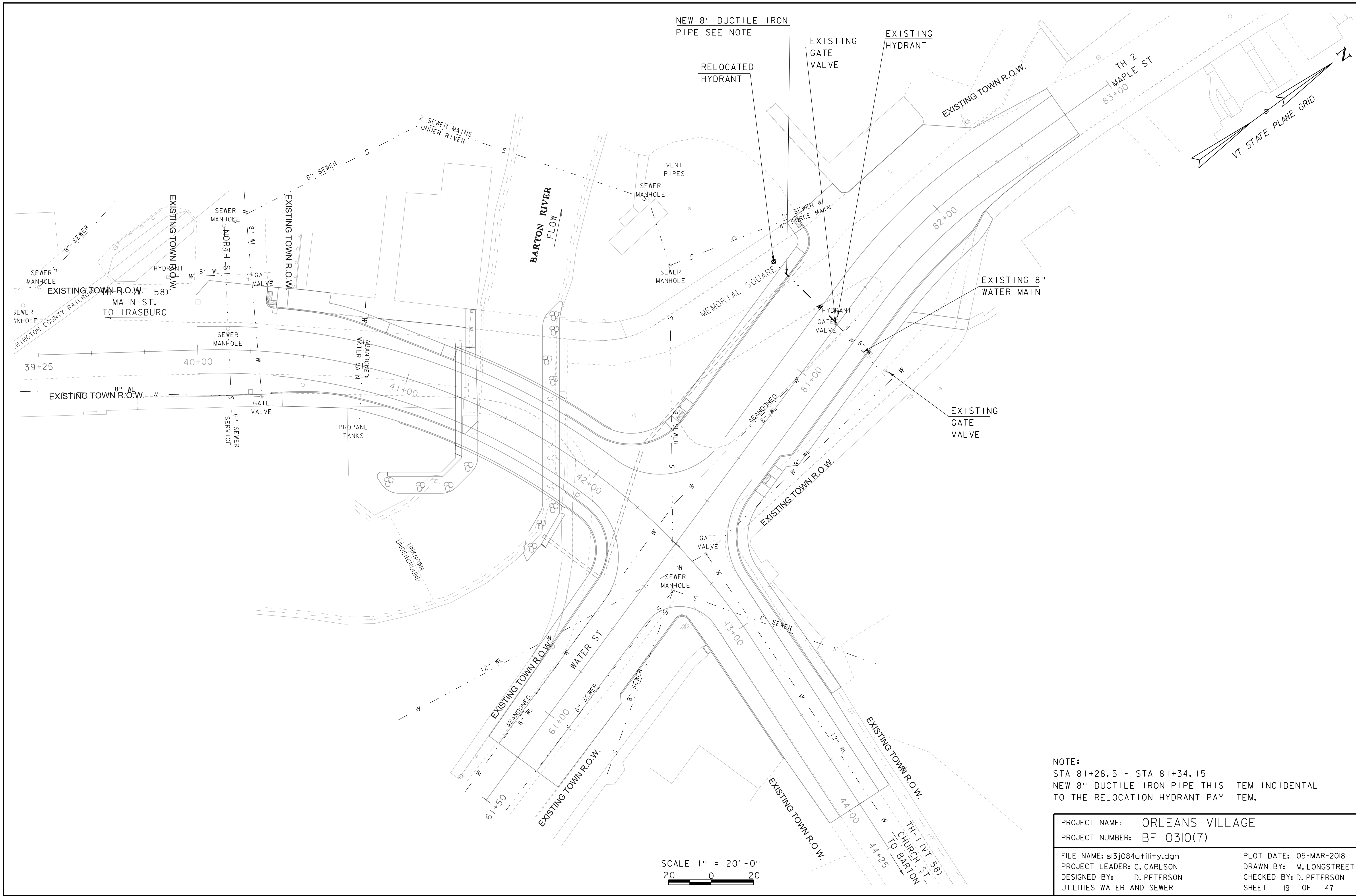
RETAIN EXISTING  
POLES



\* ELEVATION ADJUSTED BY OTHERS  
ADJUST ELEVATION OF TELEPHONE MANHOLES  
STA 40+50 RT  
STA 41+97 LT

PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s13j084utility.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	UTILITIES RELOCATION	SHEET 18 OF 47

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



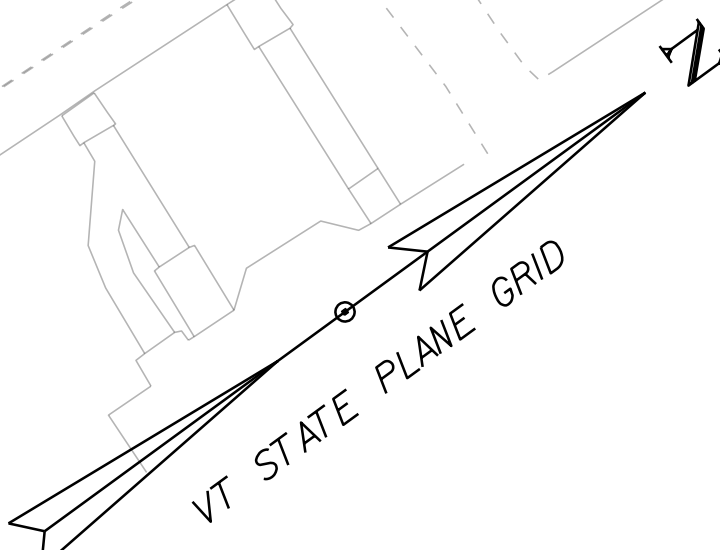
NEW 8" DUCTILE IRON PIPE SEE NOTE

RELOCATED HYDRANT

EXISTING GATE VALVE

EXISTING HYDRANT

TH 2 MAPLE ST  
83+00



BARTON RIVER  
FLOW

MEMORIAL SQUARE

EXISTING 8" WATER MAIN

EXISTING GATE VALVE

GATE VALVE

SEWER MANHOLE

6" SEWER

43+00

EXISTING TOWN R.O.W.

EXISTING TOWN R.O.W.

TH 1 (VT 58)  
TO CHURCH ST  
TO BARTON

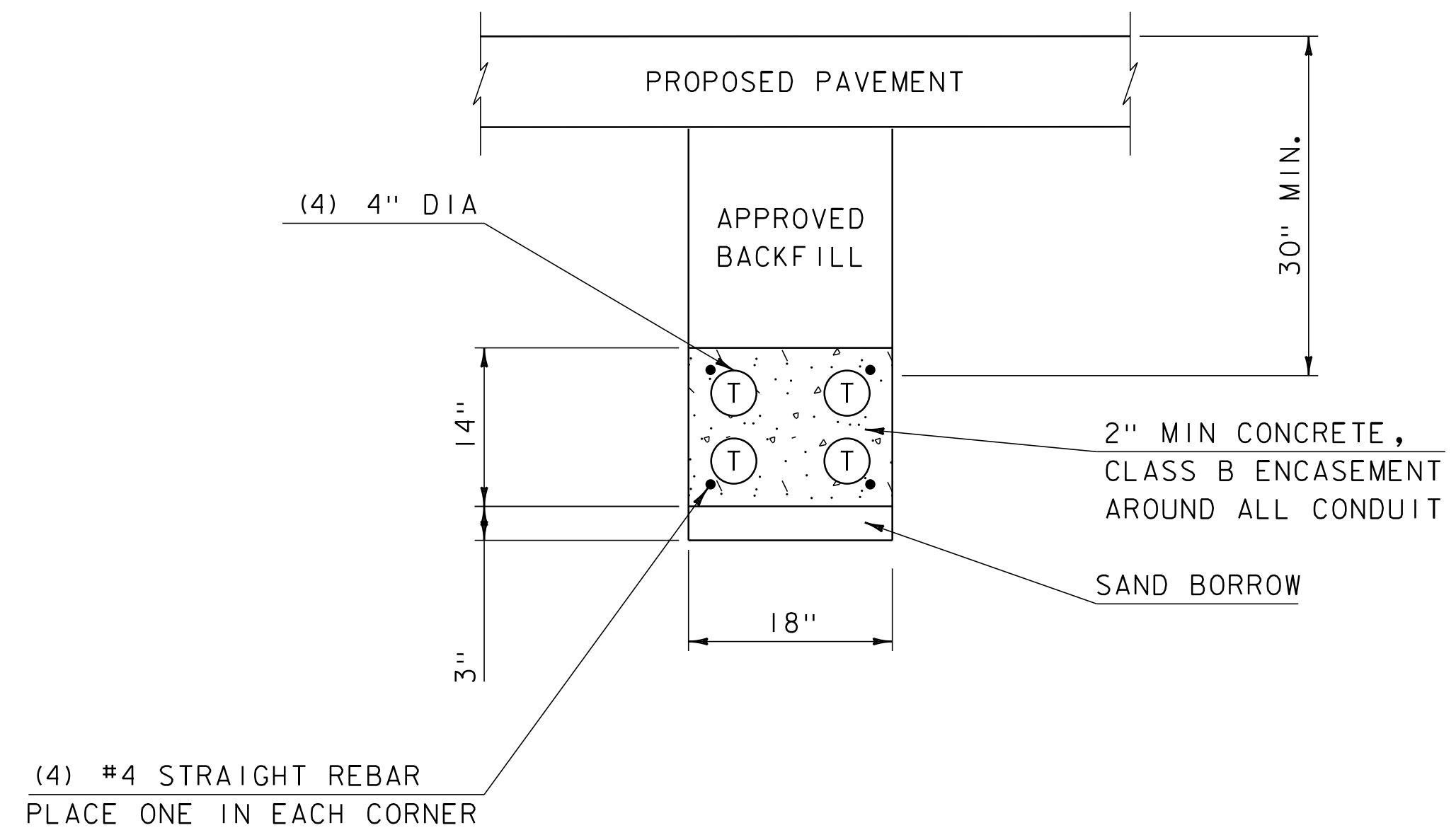
NOTE:  
STA 81+28.5 - STA 81+34.15  
NEW 8" DUCTILE IRON PIPE THIS ITEM INCIDENTAL TO THE RELOCATION HYDRANT PAY ITEM.

PROJECT NAME: ORLEANS VILLAGE  
PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084utility.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: D. PETERSON  
UTILITIES WATER AND SEWER

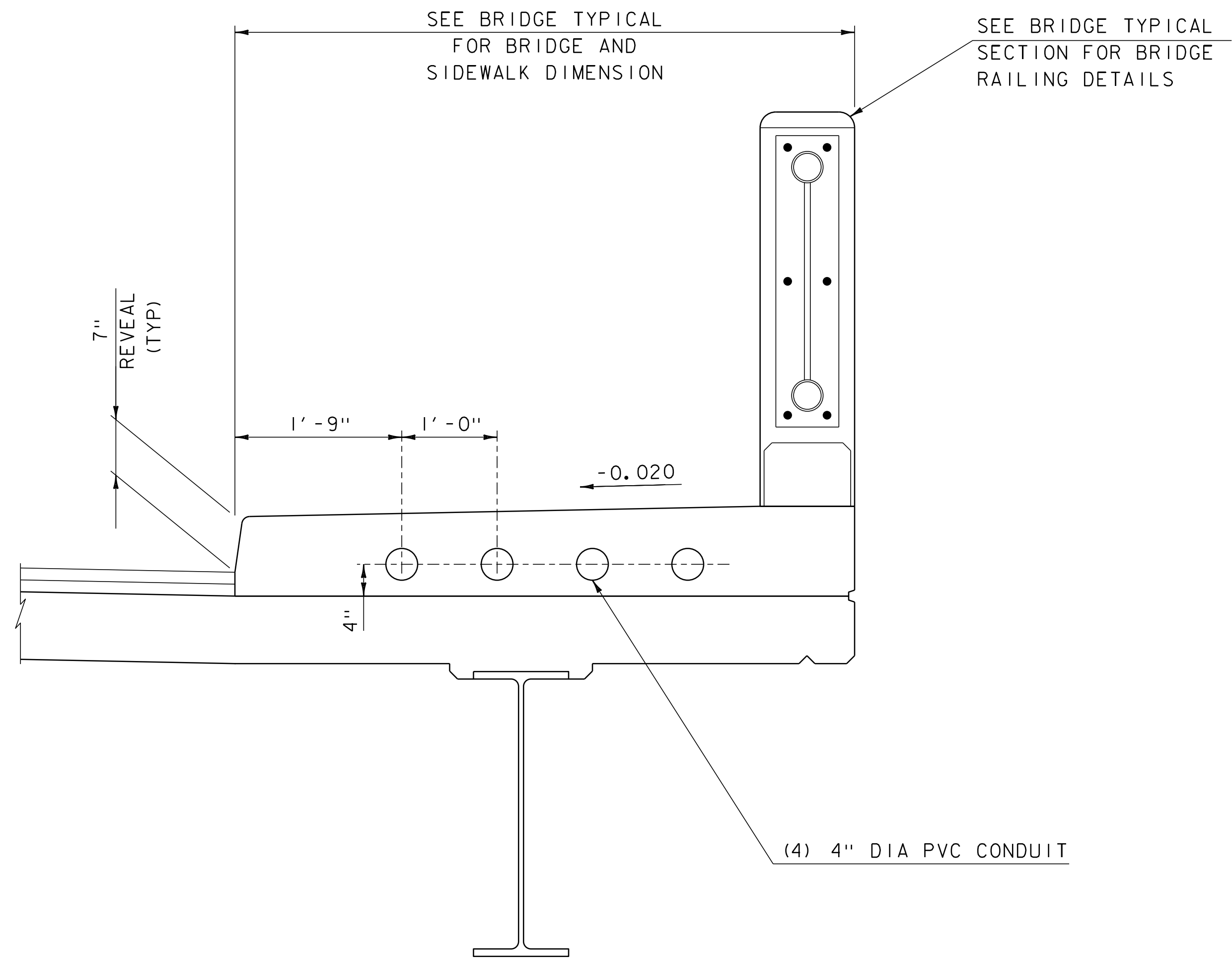
PLOT DATE: 05-MAR-2018  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 19 OF 47

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



DETAIL A

PAYMENT MADE UNDER ITEM 900.640,  
SPECIAL PROVISION (UTILITY BANK DUCT) (4 CONDUIT)



DETAIL B

PAYMENT MADE UNDER ITEM 900.640,  
SPECIAL PROVISION (4 DUCTS (4" X 52')  
ENCASED IN CONCRETE SIDEWALK)

CONDUIT LEGEND

Ⓣ FAIRPOINT TELECOMMUNICATIONS CONDUIT

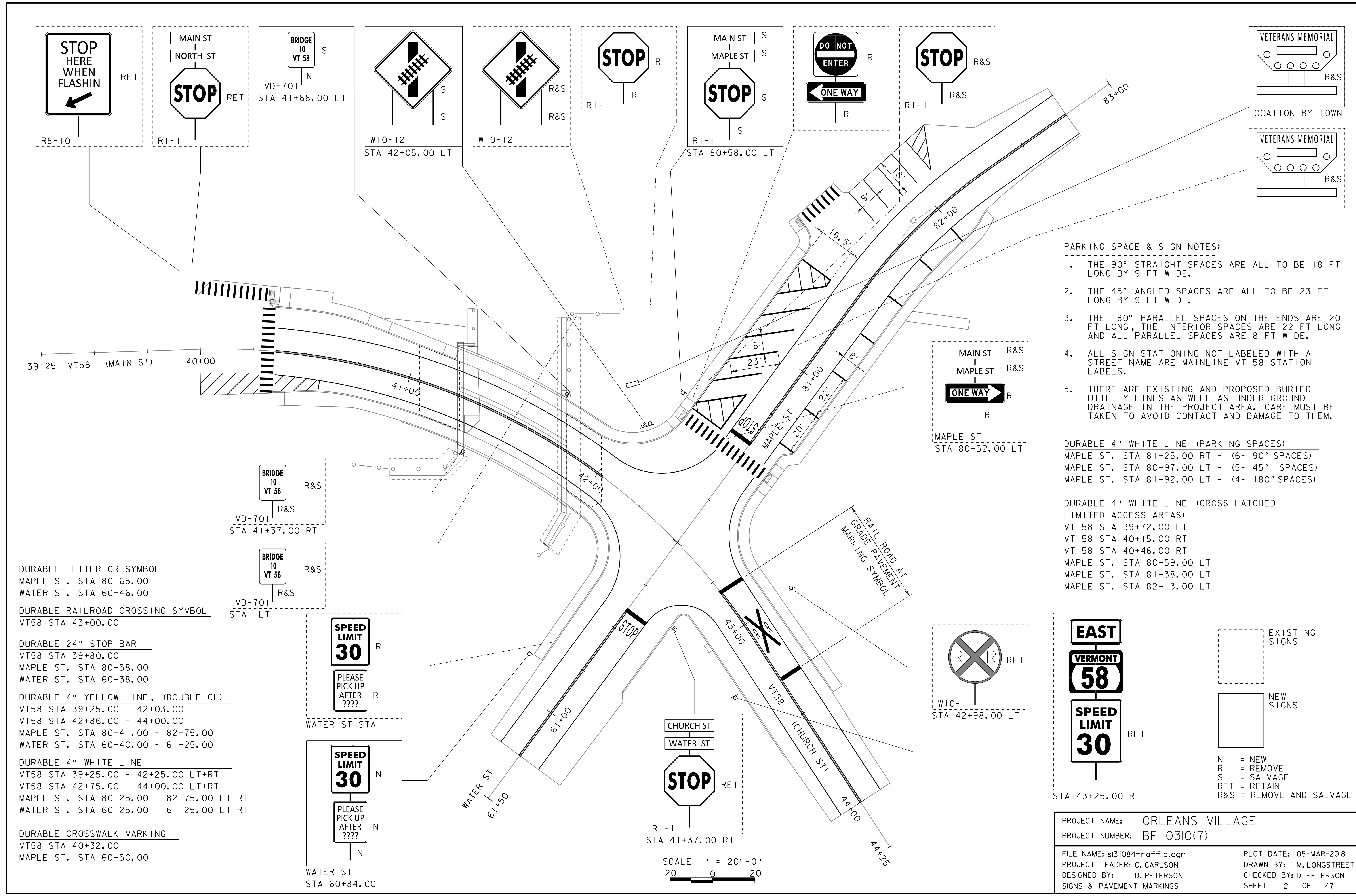
PROJECT NAME: ORLEAMS VILLAGE  
PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084utility.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: D. PETERSON  
UTILITY DETAILS

PLOT DATE: 05-MAR-2018  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 20 OF 47

SCALE 1" = 1'-0"





- PARKING SPACE & SIGN NOTES:**
1. THE 90° STRAIGHT SPACES ARE ALL TO BE 18 FT LONG BY 9 FT WIDE.
  2. THE 45° ANGLED SPACES ARE ALL TO BE 23 FT LONG BY 9 FT WIDE.
  3. THE 180° PARALLEL SPACES ON THE ENDS ARE 20 FT LONG, THE INTERIOR SPACES ARE 22 FT LONG AND ALL PARALLEL SPACES ARE 8 FT WIDE.
  4. ALL SIGN STATIONING NOT LABELED WITH A STREET NAME ARE MAINLINE VT 58 STATION LABELS.
  5. THERE ARE EXISTING AND PROPOSED BURIED UTILITY LINES AS WELL AS UNDER GROUND DRAINAGE IN THE PROJECT AREA. CARE MUST BE TAKEN TO AVOID CONTACT AND DAMAGE TO THEM.

**DURABLE 4" WHITE LINE (PARKING SPACES)**  
 MAPLE ST. STA 81+25.00 RT - (6- 90° SPACES)  
 MAPLE ST. STA 80+97.00 LT - (5- 45° SPACES)  
 MAPLE ST. STA 81+92.00 LT - (4- 180° SPACES)

**DURABLE 4" WHITE LINE (CROSS HATCHED LIMITED ACCESS AREAS)**  
 VT 58 STA 39+72.00 LT  
 VT 58 STA 40+15.00 RT  
 VT 58 STA 40+46.00 RT  
 MAPLE ST. STA 80+59.00 LT  
 MAPLE ST. STA 81+38.00 LT  
 MAPLE ST. STA 82+13.00 LT

**DURABLE LETTER OR SYMBOL**  
 MAPLE ST. STA 80+65.00  
 WATER ST. STA 60+46.00

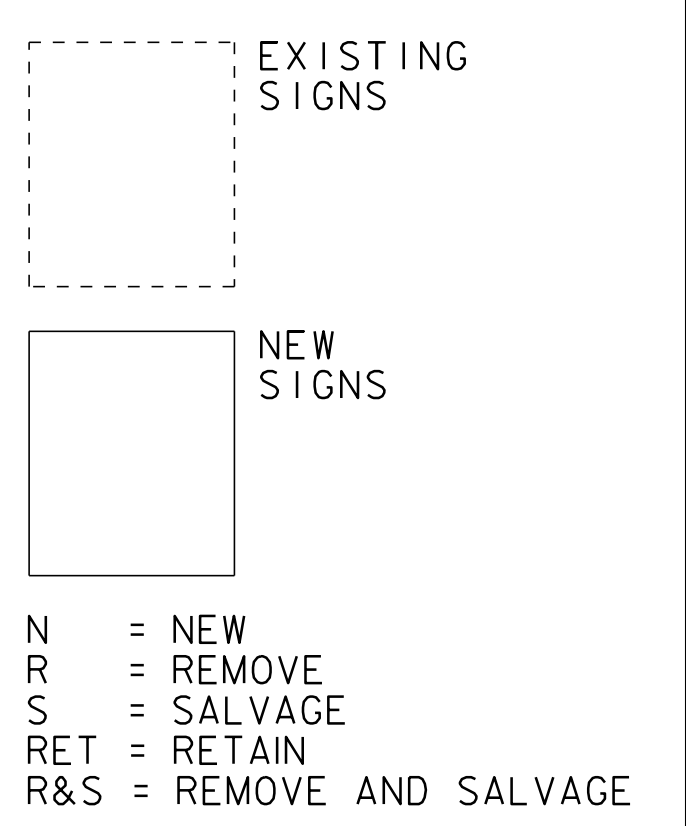
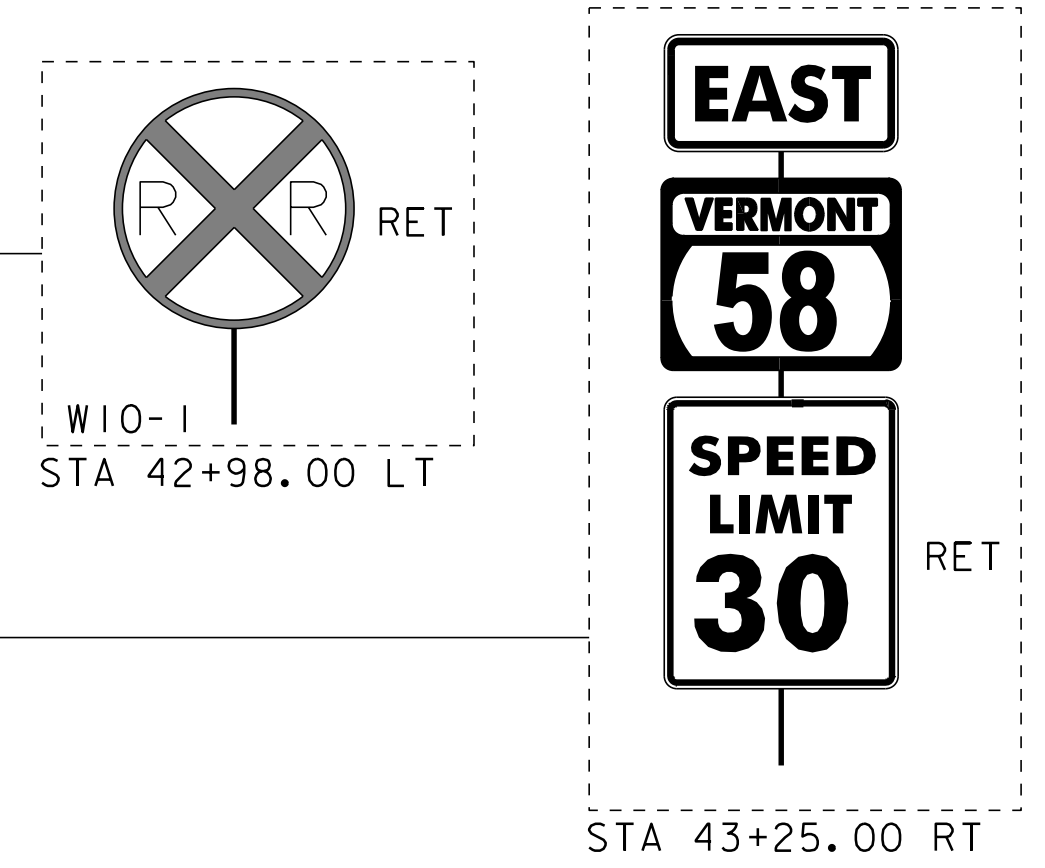
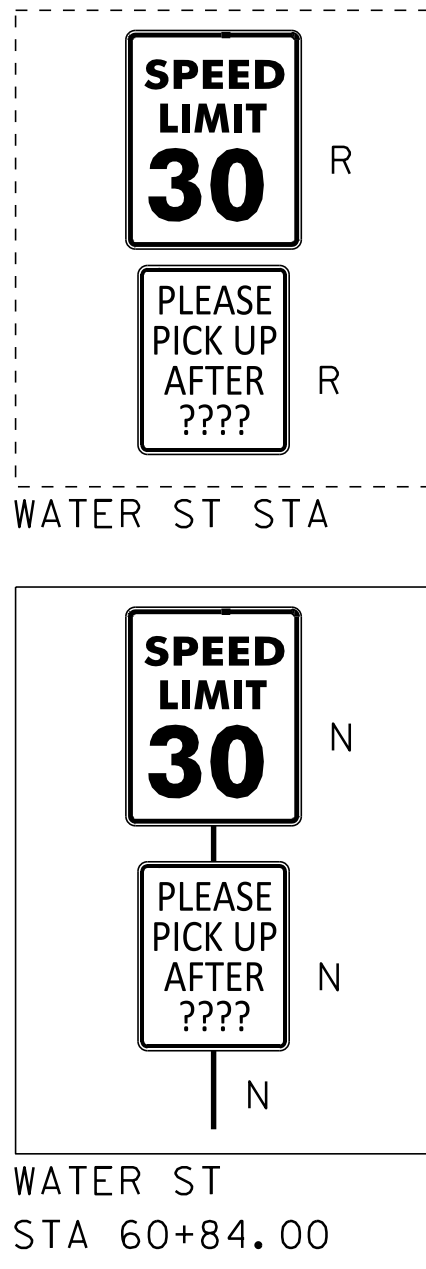
**DURABLE RAILROAD CROSSING SYMBOL**  
 VT58 STA 43+00.00

**DURABLE 24" STOP BAR**  
 VT58 STA 39+80.00  
 MAPLE ST. STA 80+58.00  
 WATER ST. STA 60+38.00

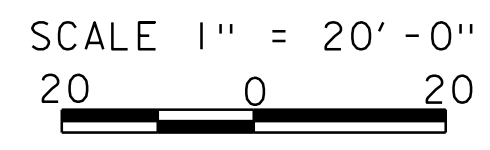
**DURABLE 4" YELLOW LINE, (DOUBLE CL)**  
 VT58 STA 39+25.00 - 42+03.00  
 VT58 STA 42+86.00 - 44+00.00  
 MAPLE ST. STA 80+41.00 - 82+75.00  
 WATER ST. STA 60+40.00 - 61+25.00

**DURABLE 4" WHITE LINE**  
 VT58 STA 39+25.00 - 42+25.00 LT+RT  
 VT58 STA 42+75.00 - 44+00.00 LT+RT  
 MAPLE ST. STA 80+25.00 - 82+75.00 LT+RT  
 WATER ST. STA 60+25.00 - 61+25.00 LT+RT

**DURABLE CROSSWALK MARKING**  
 VT58 STA 40+32.00  
 MAPLE ST. STA 60+50.00



PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084traffic.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
SIGNS & PAVEMENT MARKINGS	SHEET 21 OF 47



**SOIL CLASSIFICATION**

**AASHTO**

A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

**COMMONLY USED SYMBOLS**

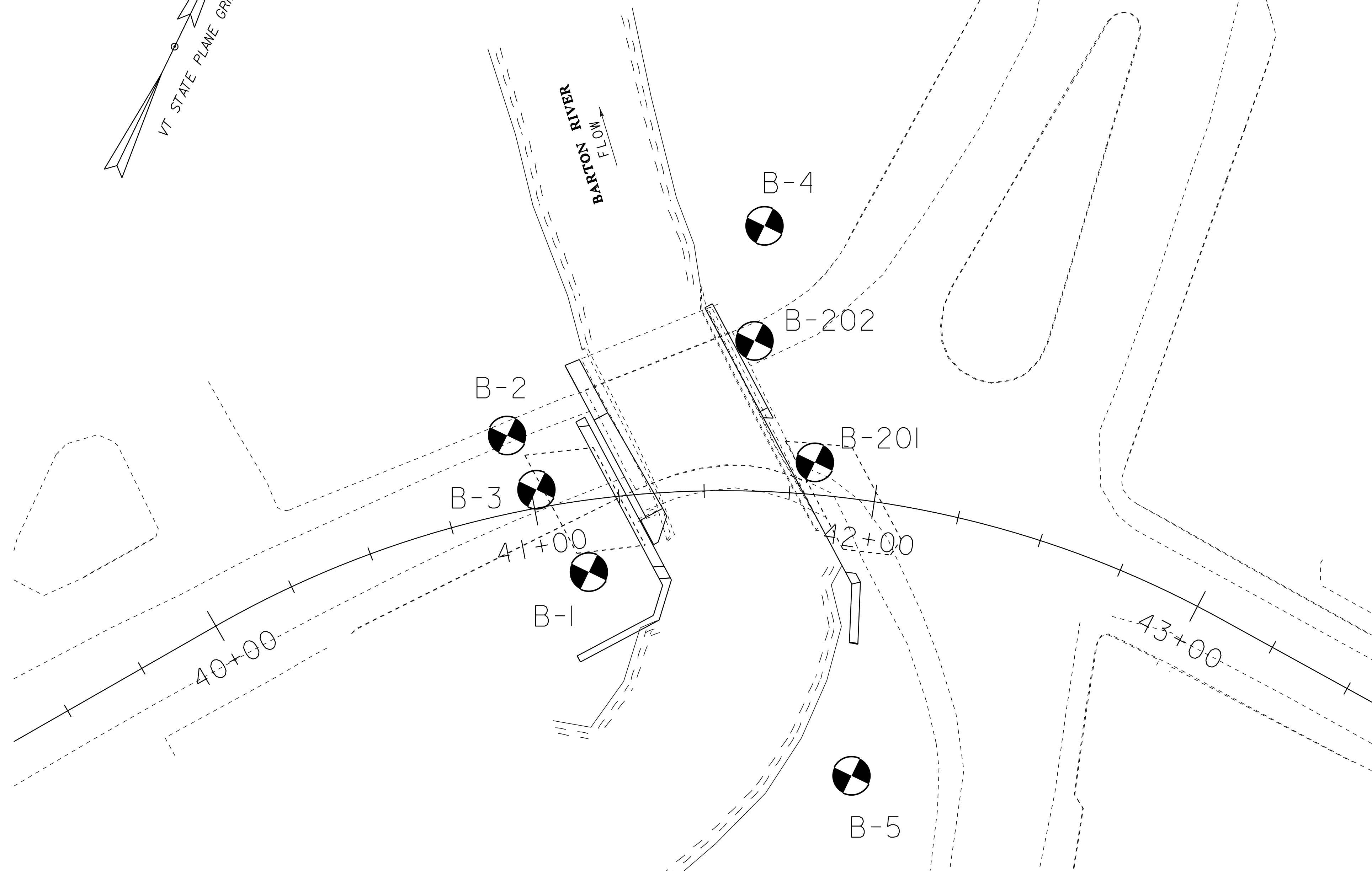
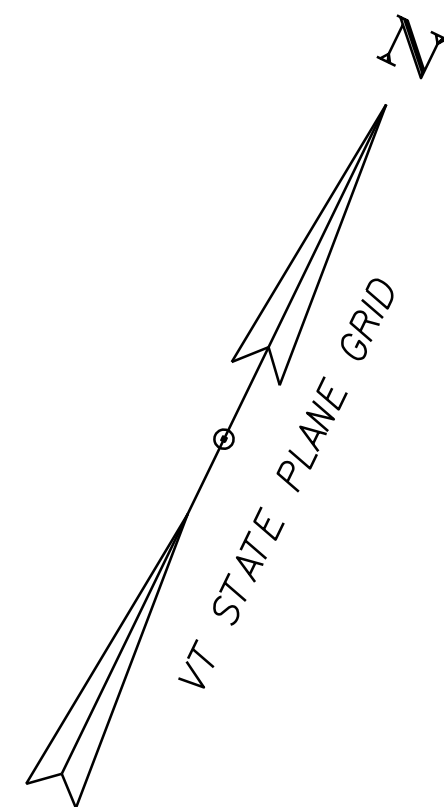
- ▼ Water Elevation
- ⊙ Standard Penetration Boring
- ⊕ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger
- AX Core Size 1 1/8"
- BX Core Size 1 3/8"
- NX Core Size 2 1/8"
- M Double Tube Core Barrel Used
- LL Liquid Limit
- PL Plastic Limit
- PI Plasticity Index
- NP Non Plastic
- w Moisture Content (Dry Wgt. Basis)
- D Dry
- M Moist
- MTW Moist To Wet
- W Wet
- Sat Saturated
- Bo Boulder
- Gr Gravel
- Sa Sand
- Si Silt
- Cl Clay
- HP Hardpan
- Le Ledge
- NLTD No Ledge To Depth
- CNPF Can Not Penetrate Further
- TLOB Top of Ledge Or Boulder
- NR No Recovery
- Rec. Recovery
- %Rec. Percent Recovery
- ROD Rock Quality Designation
- CBR California Bearing Ratio
- < Less Than
- > Greater Than
- R Refusal (N > 100)
- VTSPG NAD83 - See Note 7

**COLOR**

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gr	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		

**DEFINITIONS (AASHTO)**

- BEDROCK (LEDGE)** - Rock in its native location of indefinite thickness.
- BOULDER** - A rock fragment with an average dimension > 12 inches.
- COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.
- GRAVEL** - Rounded particles of rock < 3" and > 0.075" (#10 sieve).
- SAND** - Particles of rock < 0.075" (#10 sieve) and > 0.0025" (#200 sieve).
- SLT** - Soil < 0.0025" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.
- CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.
- VARVED** - Alternate layers of silt and clay.
- HARDPAN** - Extremely dense soil, cemented layer, not softened when wet.
- MUCK** - Soft organic soil (containing > 10% organic material).
- MOISTURE CONTENT** - Weight of water divided by dry weight of soil.
- FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
- STRIKE** - Angle from magnetic north to line of intersection of bed with a horizontal plane.
- DIP** - Inclination of bed with a horizontal plane.



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

**GENERAL NOTES**

1. The subsurface explorations shown herein were made between 05/02/2016 and 06/09/2017 Terracon and VTrans.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
5. Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
6. Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

**BING CHART**

BORING	STATION	OFFSET	Northing	Easting
B-1	41+13.09	20.98	842538.89	1717543.24
B-2	40+96.34	-22.53	842564.44	1717504.24
B-3	41+01.52	-5.31	842553.90	1717518.89
B-4	41+65.28	-77.80	842652.63	1717545.29
B-5	42+07.02	80.37	842518.72	1717638.52
B-201	41+63.65	9.18	842596.69	1717588.81
B-202	41+81.67	-44.23	842621.01	1717557.38

PROJECT NAME: ORLEANS VILLAGE

PROJECT NUMBER: BF 0310(7)

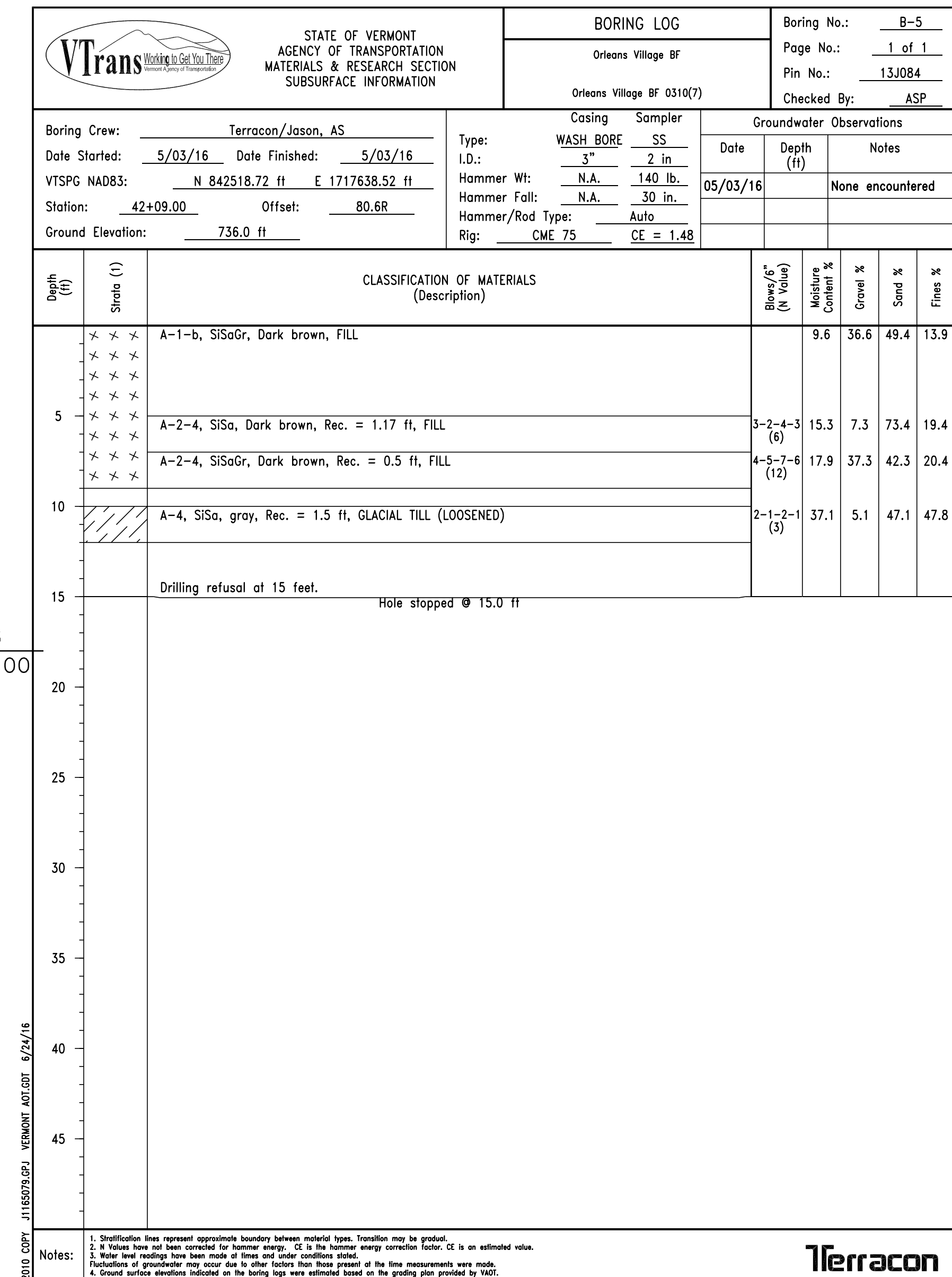
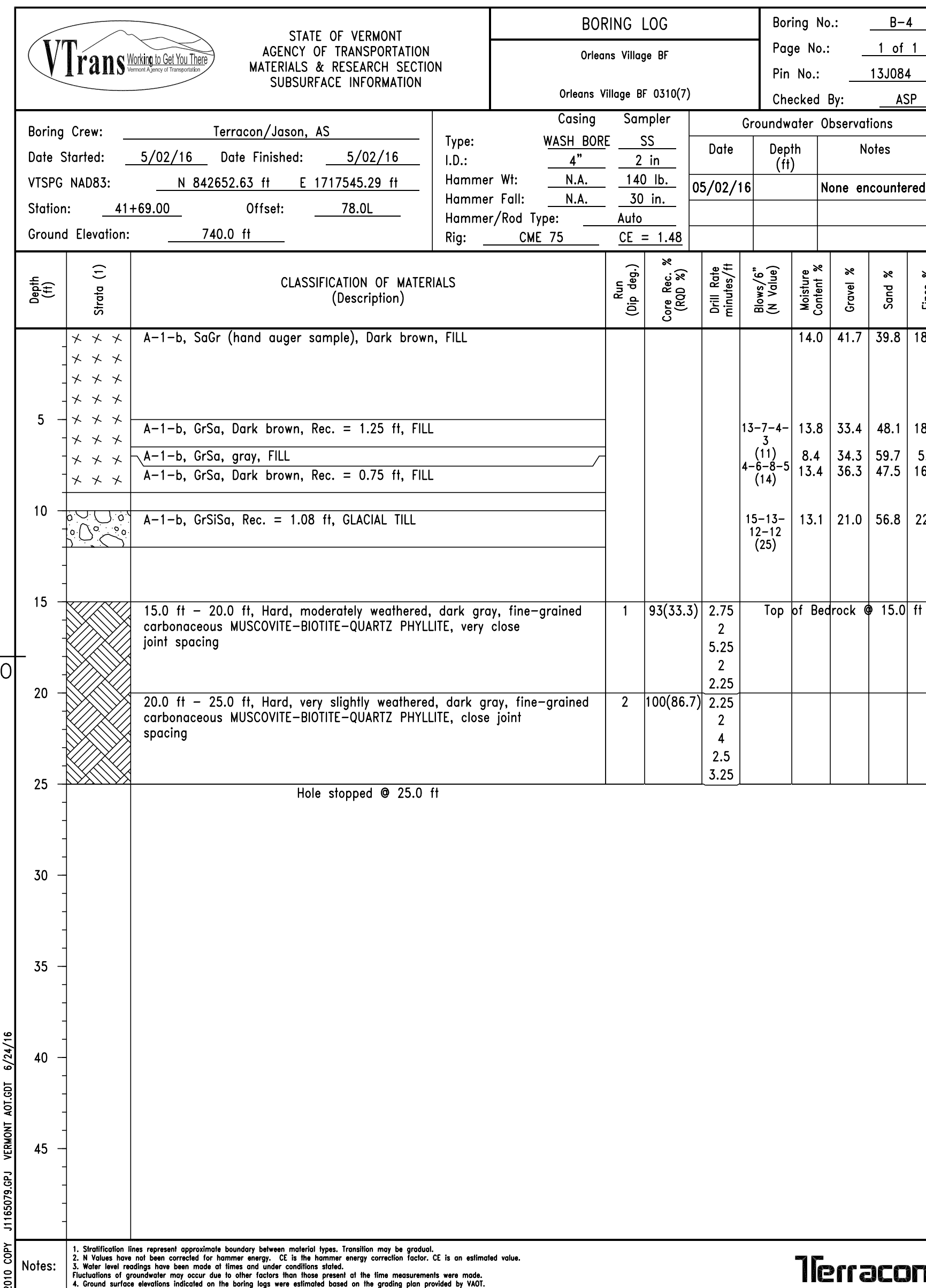
FILE NAME: s13j084bor.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: D. PETERSON  
BORING INFORMATION SHEET

PLOT DATE: 05-MAR-2018  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 22 OF 47







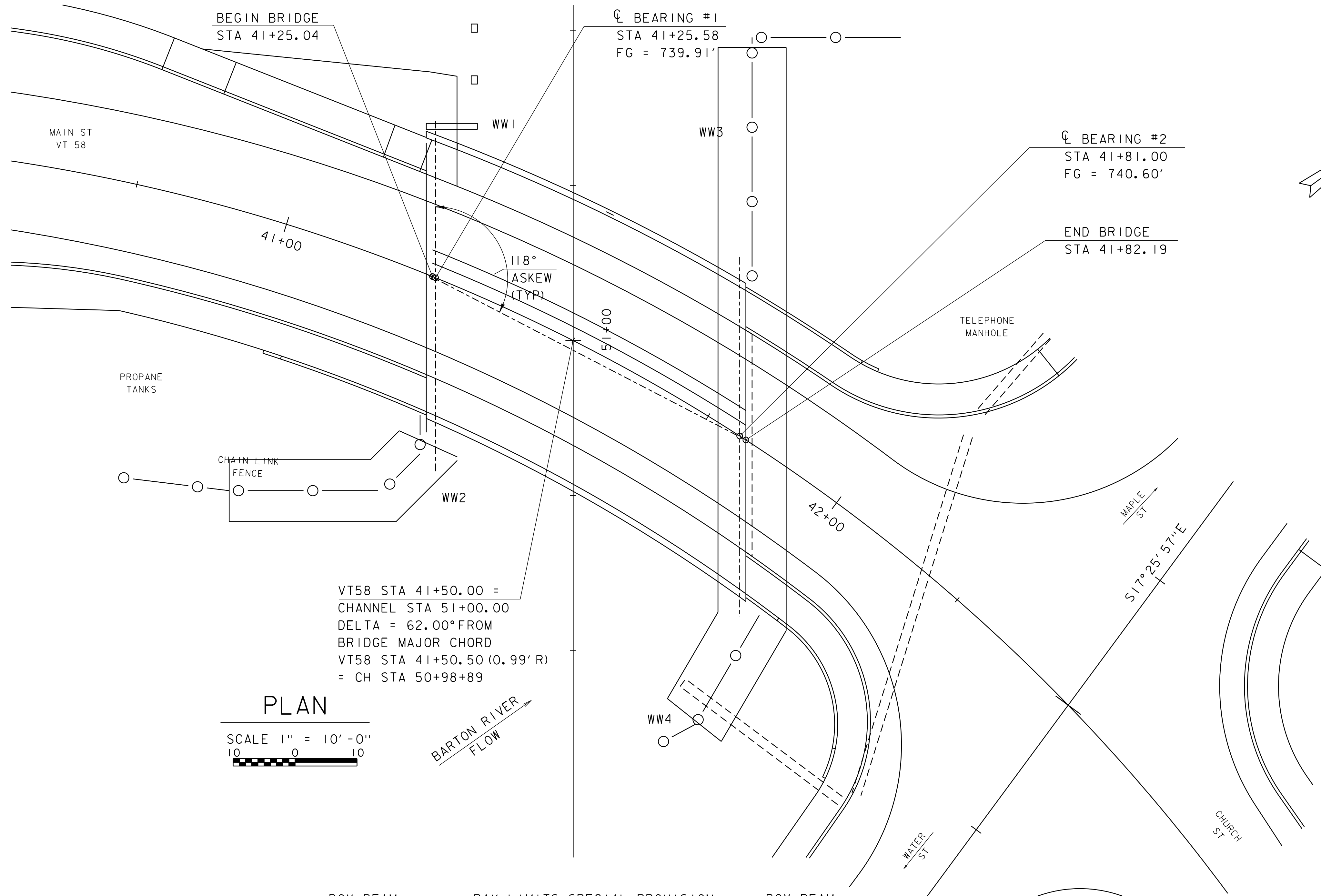


PROJECT NAME: ORLEANS VILLAGE  
 PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084bor.dgn  
 PROJECT LEADER: C. CARLSON  
 DESIGNED BY: D. PETERSON  
 BORING LOG SHEET 2

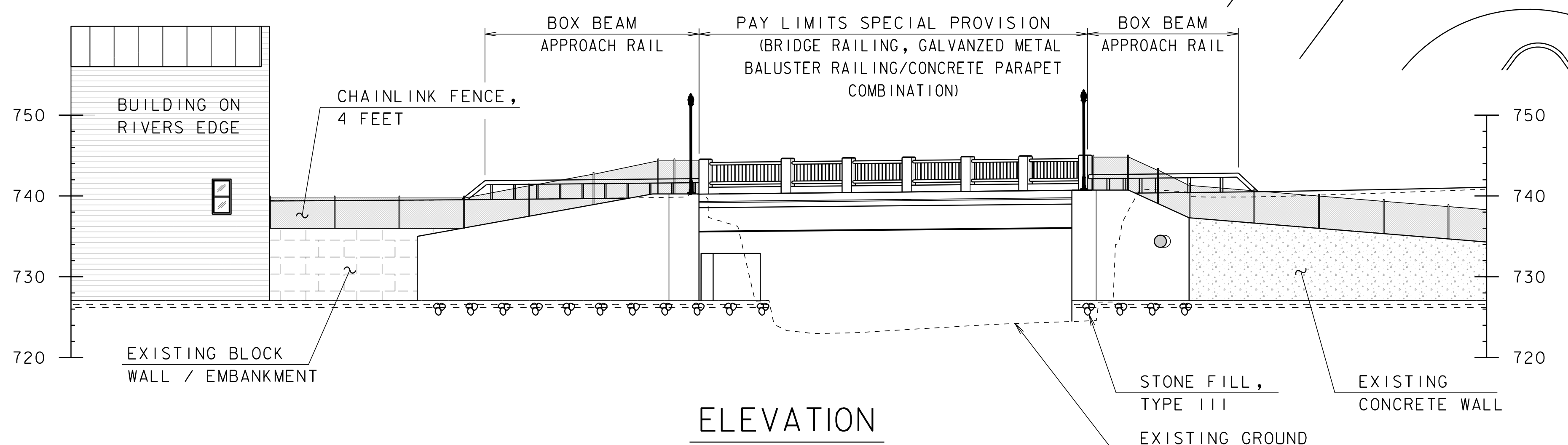
PLOT DATE: 05-MAR-2018  
 DRAWN BY: M. LONGSTREET  
 CHECKED BY: D. PETERSON  
 SHEET 24 OF 47





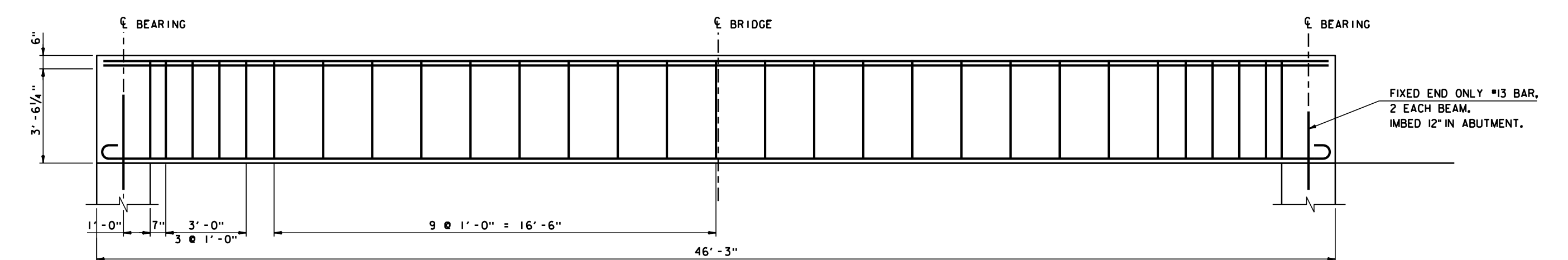
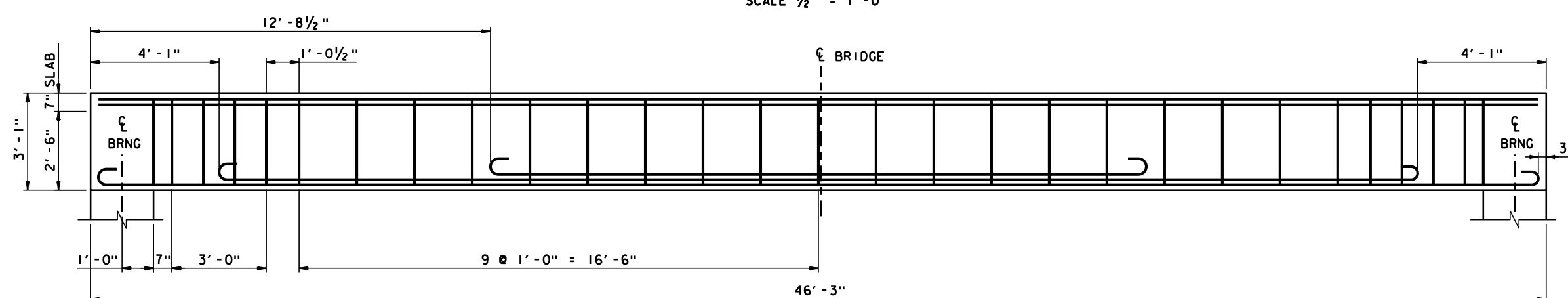
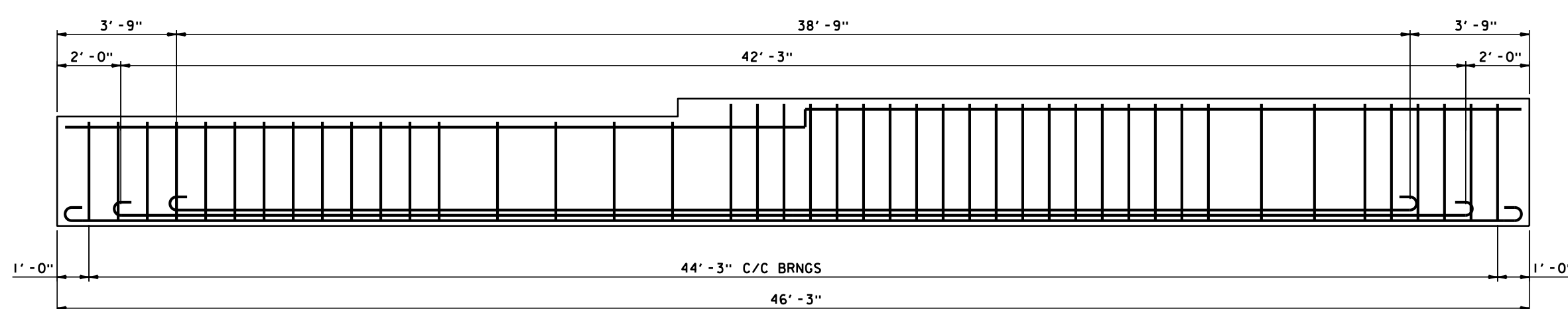
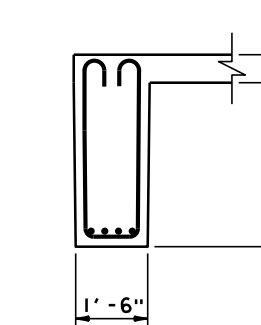
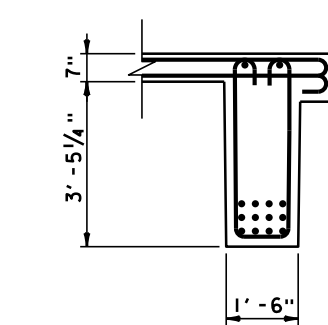
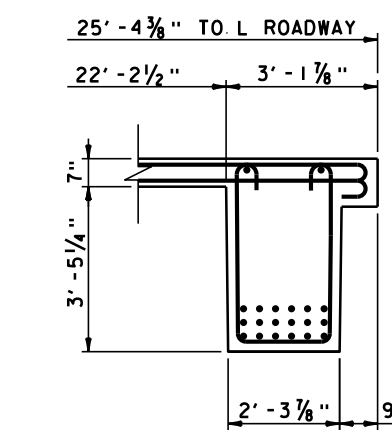
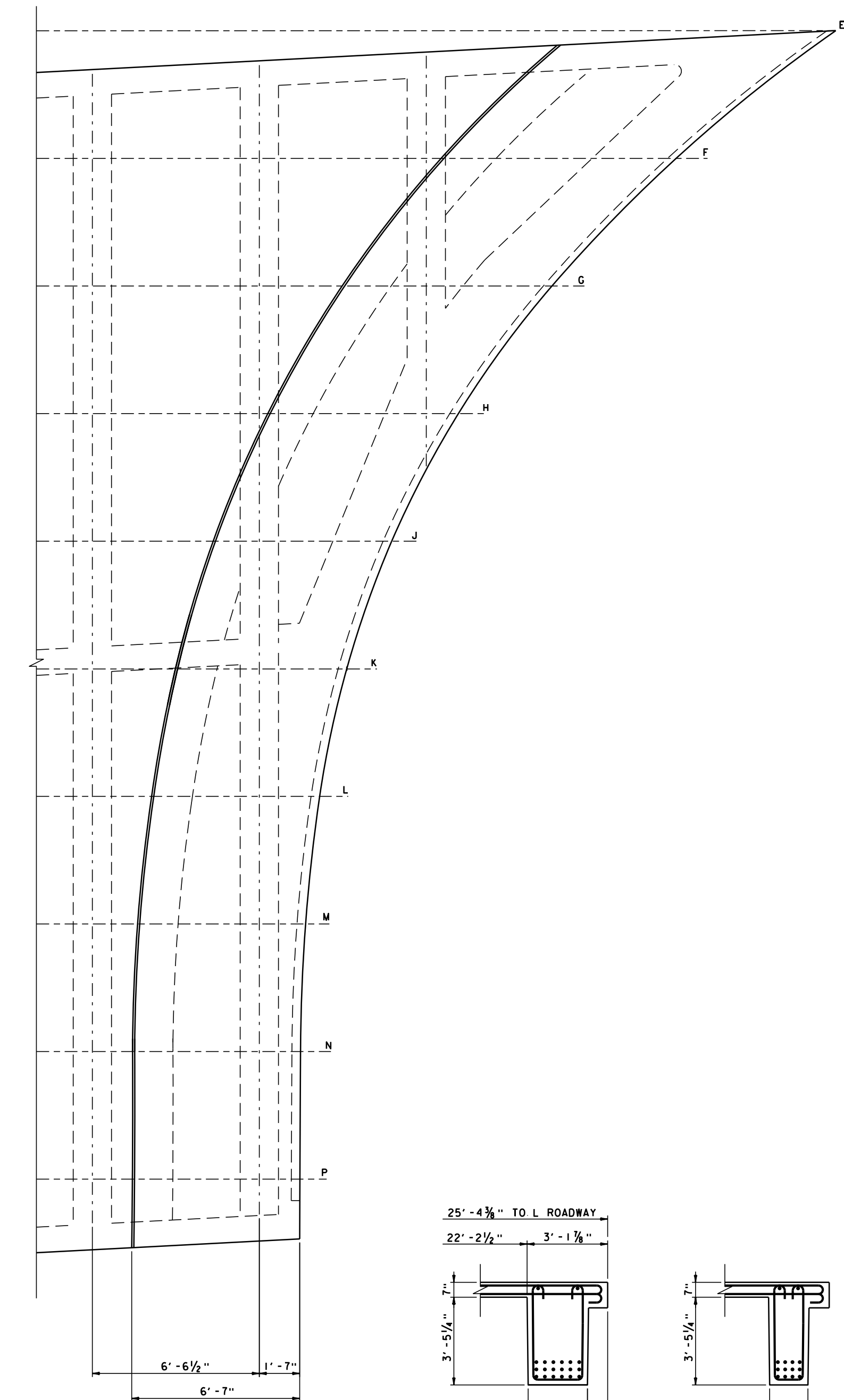
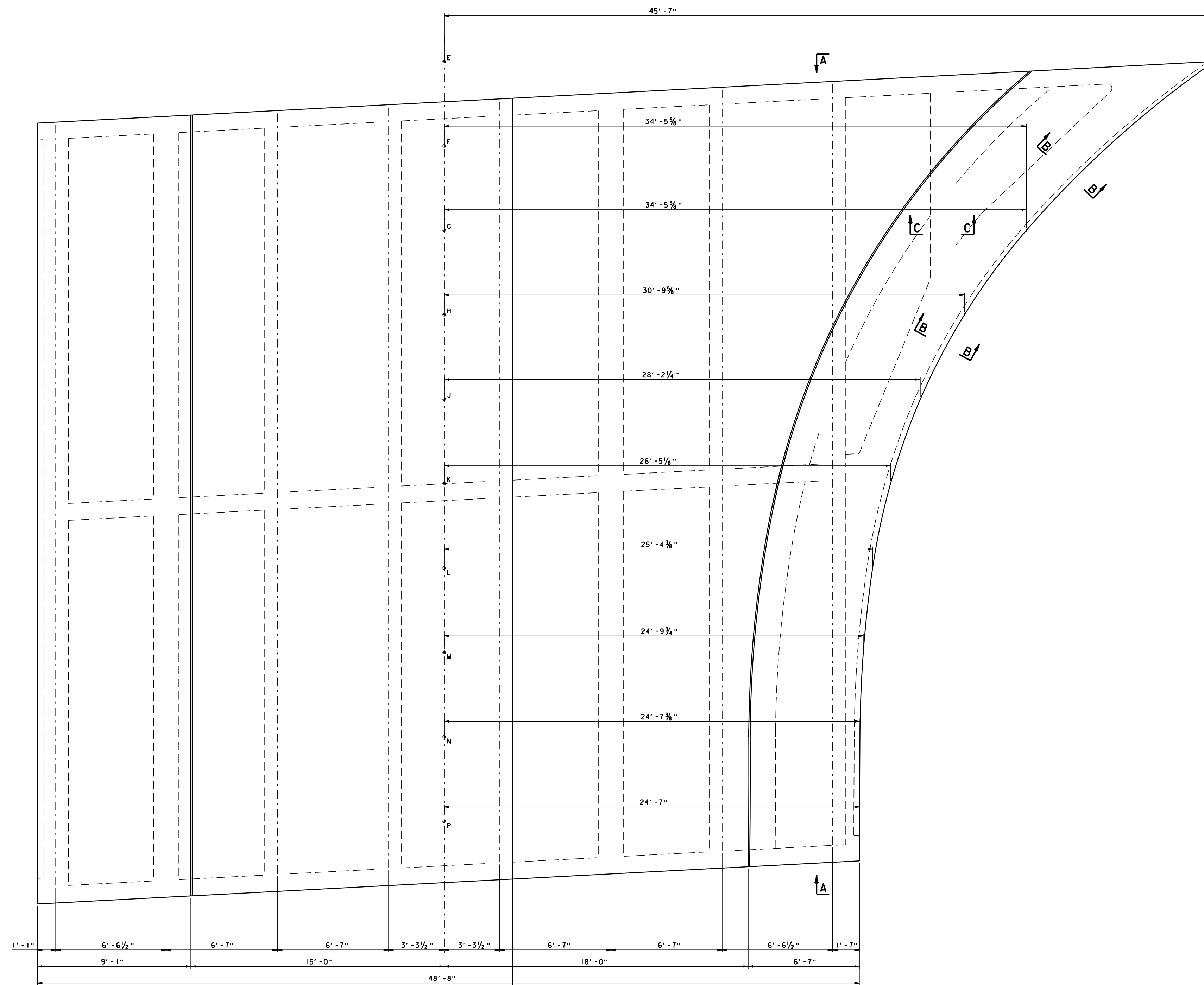
VT58 STA 41+50.00 =  
CHANNEL STA 51+00.00  
DELTA = 62.00° FROM  
BRIDGE MAJOR CHORD  
VT58 STA 41+50.50 (0.99' R)  
= CH STA 50+98+89

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

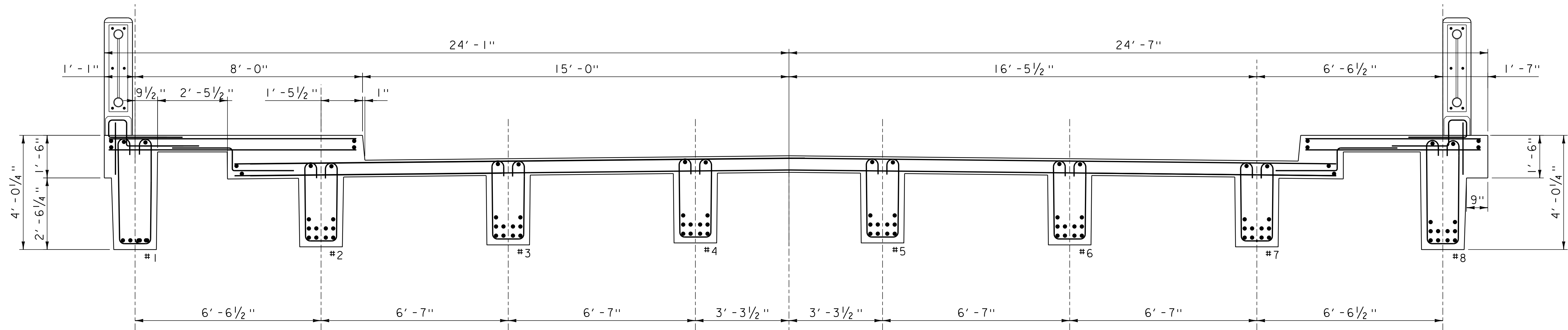


PROJECT NAME: ORLEANS VILLAGE	PLOT DATE: 05-MAR-2018
PROJECT NUMBER: BF 0310(7)	DRAWN BY: M. LONGSTREET
FILE NAME: s13j084pe.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. CARLSON	SHEET 26 OF 47
DESIGNED BY: D. PETERSON	
PLAN & ELEVATION	





PROJECT NAME: ORLEANS VILLAGE  
 PROJECT NUMBER: BF 0310(7)  
 FILE NAME: s13j084deckdetails.dgn  
 PROJECT LEADER: C. CARLSON  
 DESIGNED BY: D. PETERSON  
 BRIDGE DECK  
 PLOT DATE: 05-MAR-2018  
 DRAWN BY: D. KARABEGOVIC  
 CHECKED BY: D. PETERSON  
 SHEET 27 OF 47

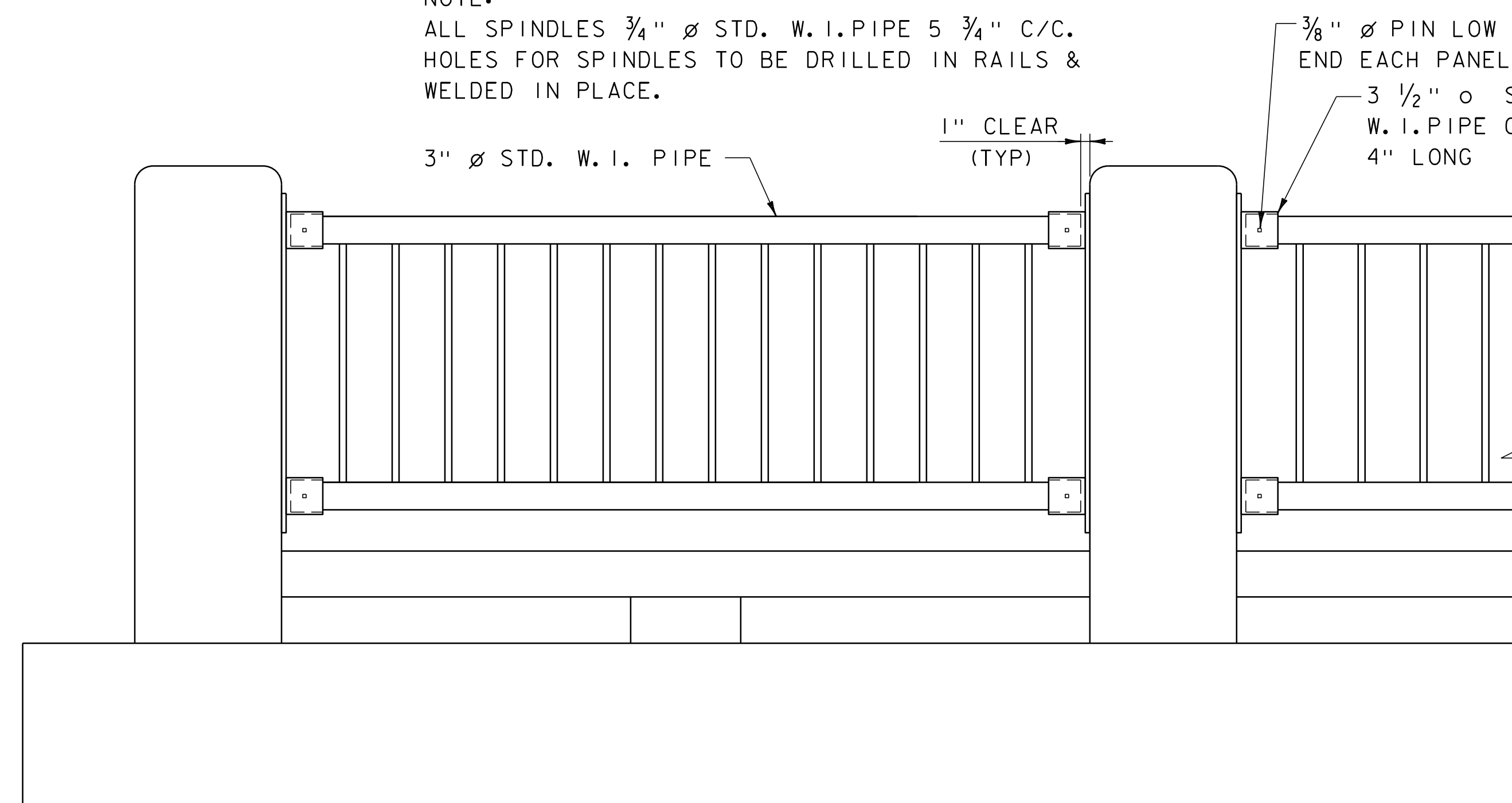


**BRIDGE TYPICAL SECTION**

SCALE 1/2" = 1'-0"

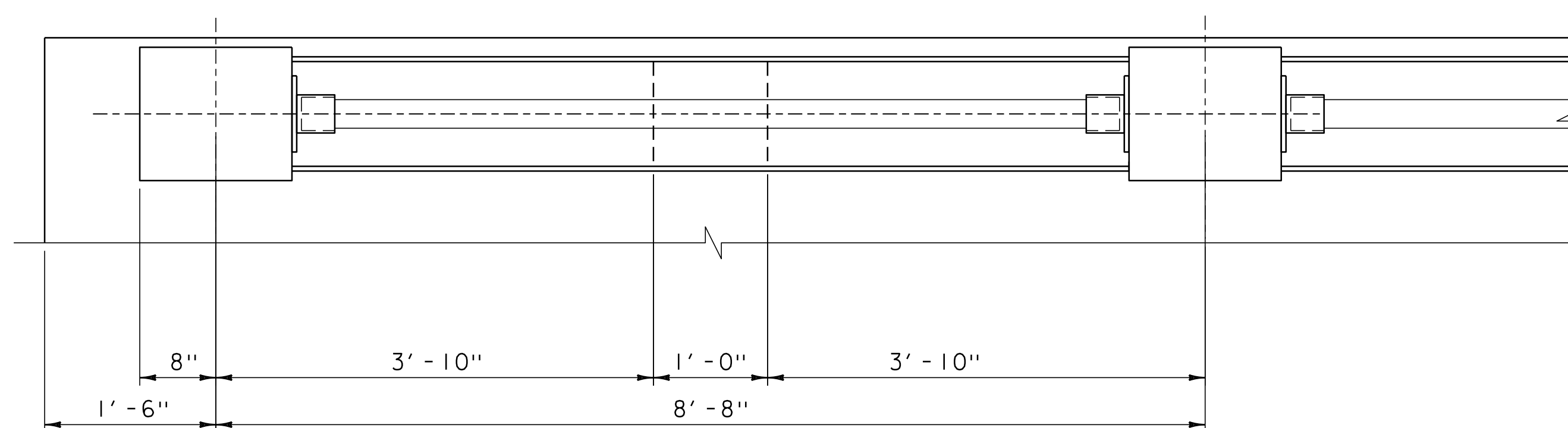
**NOTE:**

ALL SPINDLES 3/4" Ø STD. W. I. PIPE 5 3/4" C/C.  
HOLES FOR SPINDLES TO BE DRILLED IN RAILS & WELDED IN PLACE.



**DETAIL OF RAIL LT & RT**

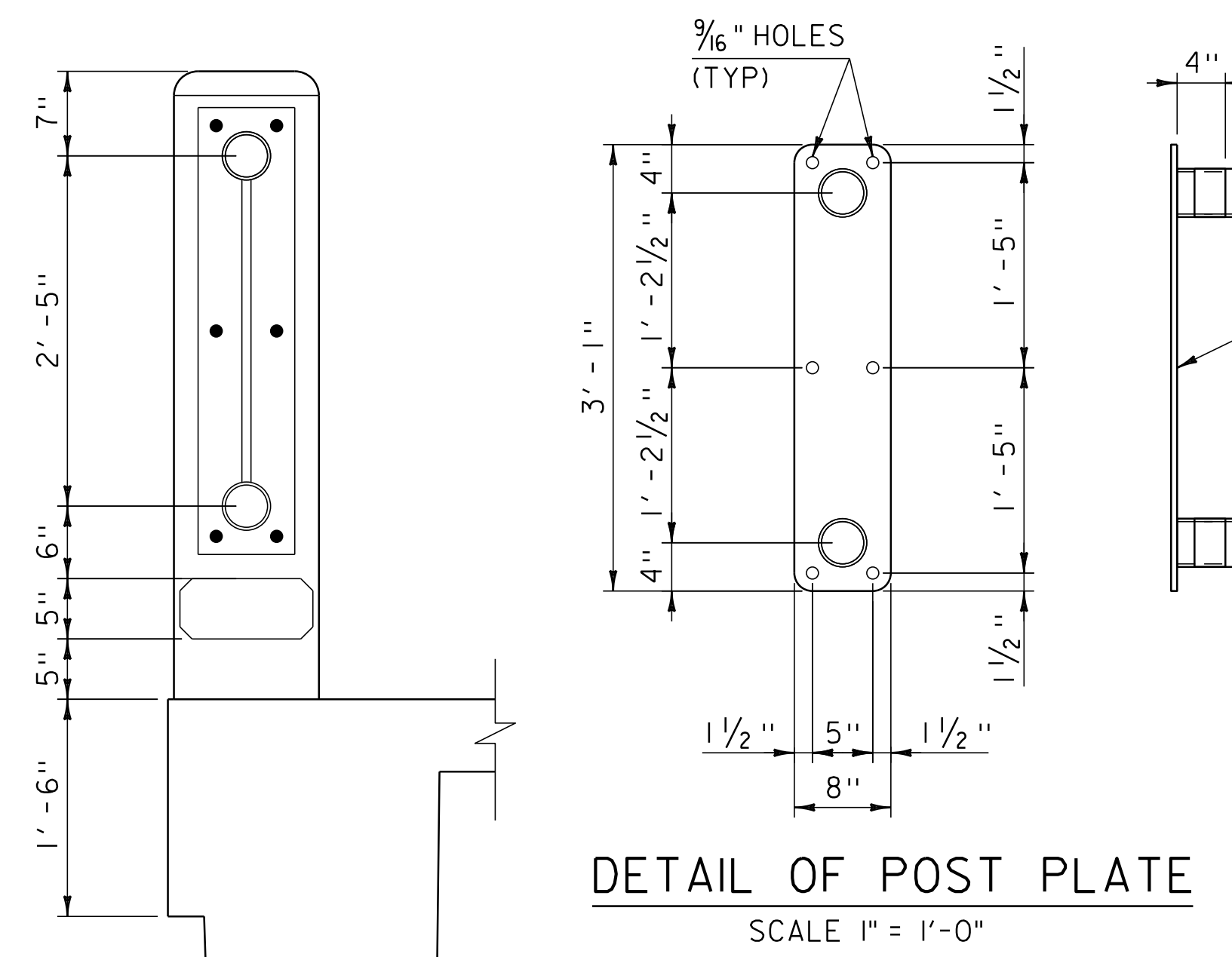
SCALE 1" = 1'-0"



**NOTE:**

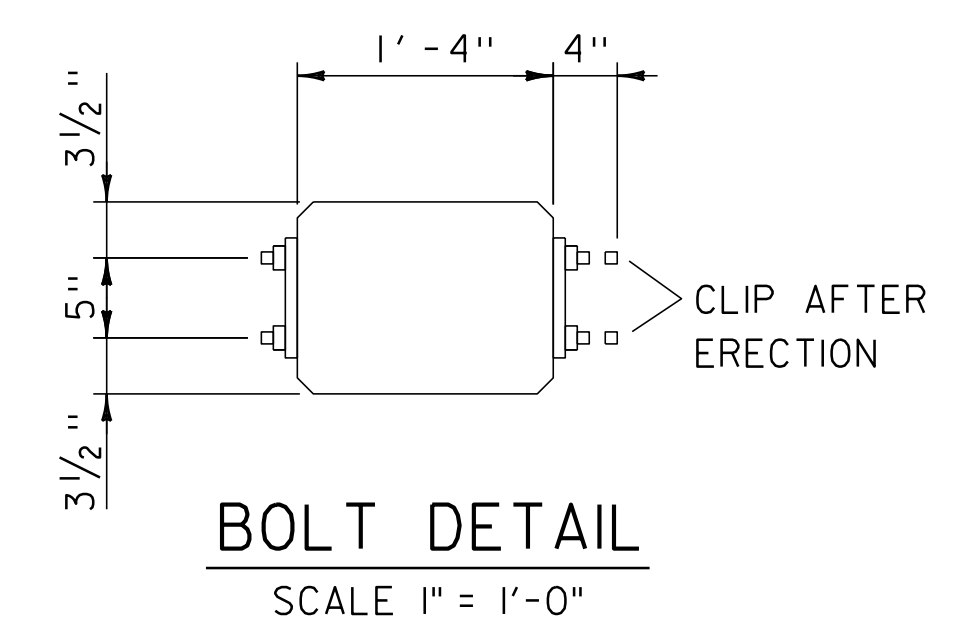
COLLAR Ø 3 1/2" STANDARD PIPE X 4" LONG, WELD TO PLATE WITH 1/4" CONTINUOUS FILLET WELD INSIDE & OUTSIDE. COLLAR BE SPLIT & SPREAD TO FORM AN INSIDE DIA OF 3/8". PLATE & COLLARS SHALL BE GALVANIZED AFTER ASSEMBLY IN ACCORDANCE WITH ITEM #51, STANDARD ROAD & BRIDGE SPECS, VT DEPT. OF HIGHWAYS.

WROUGHT IRON R.  
DIM 8" x 1/2" x 3'-1"



**DETAIL OF POST PLATE**

SCALE 1" = 1'-0"



**BOLT DETAIL**

SCALE 1" = 1'-0"

**NOTE:**

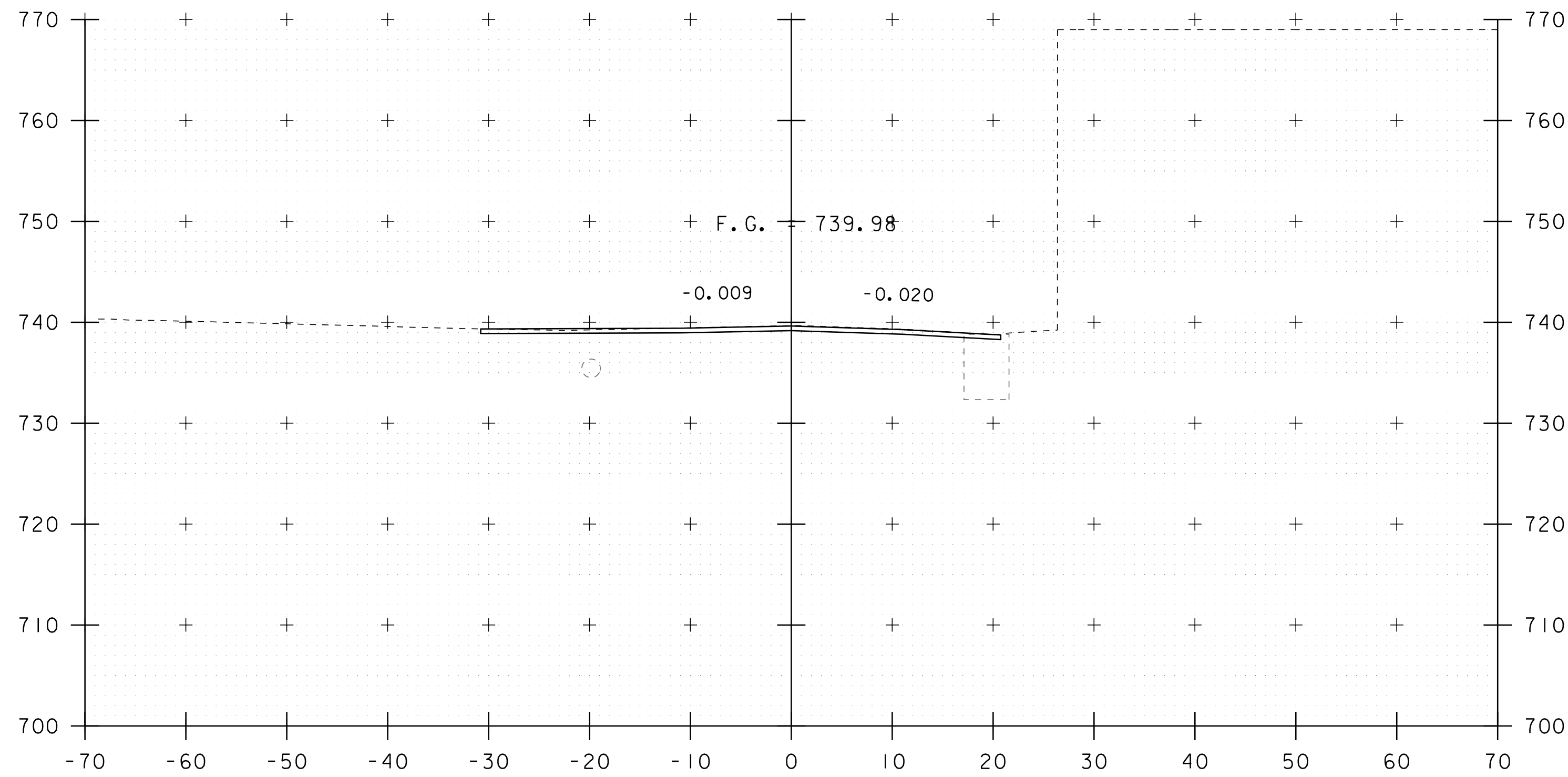
6-1/2" Ø THRU BOLTS IN 1/2" Ø PIPE SLEEVES. BOLTS TO BE LONG ENOUGH TO ERECT PLATES ON FORMS & THAN CLIPPED AFTER RAILING IS ERECTED. BOLTS & NUTS SHALL BE GALVANIZED AFTER THREADING. PIPE SLEEVES SHALL BE 1/4" SHORTER THAN POST WIDTH & GALVANIZED AFTER CUTTING.

PROJECT NAME: ORLEANS VILLAGE

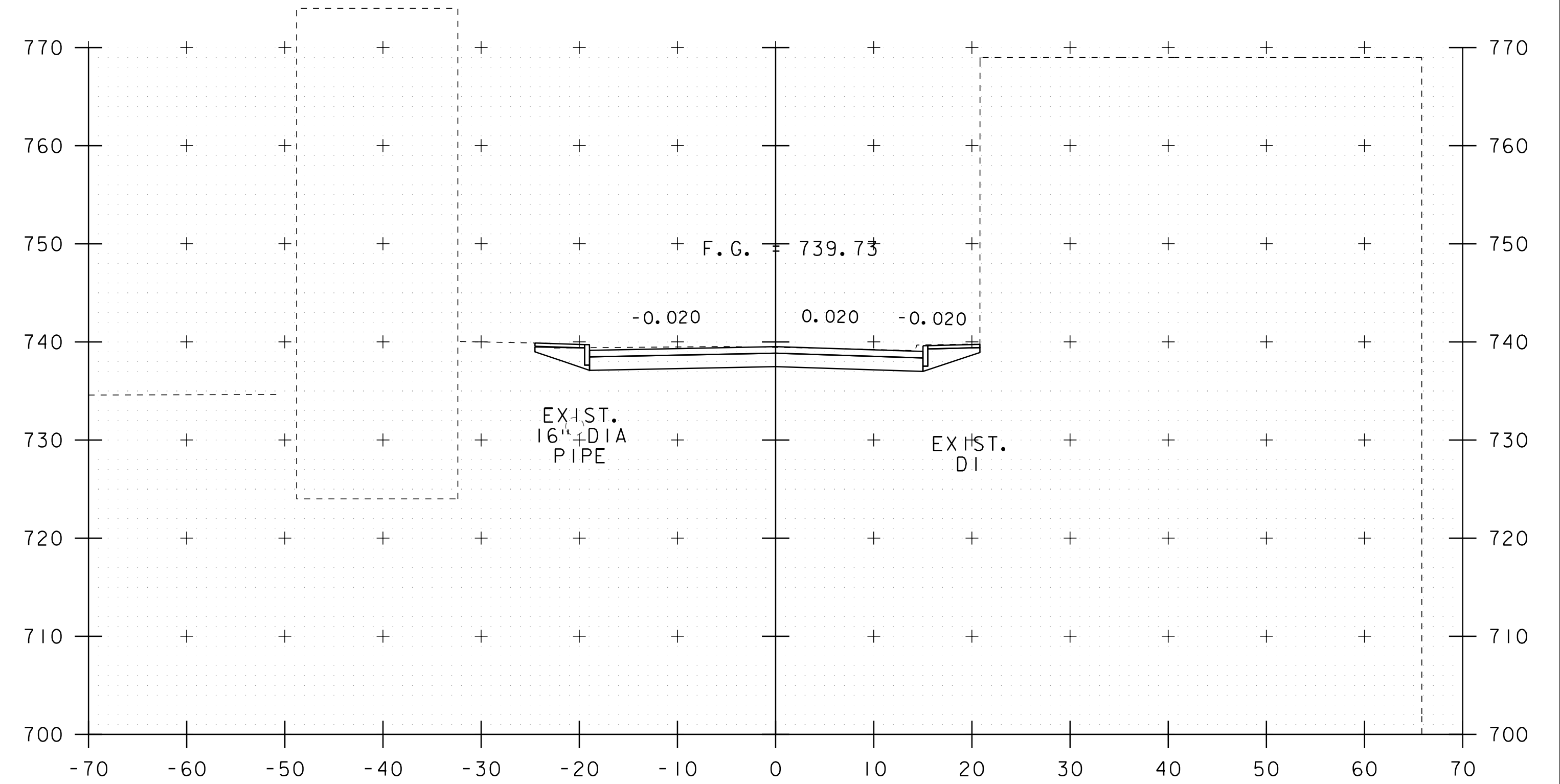
PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084deckdetails.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: D. PETERSON  
BRIDGE DECK DETAILS

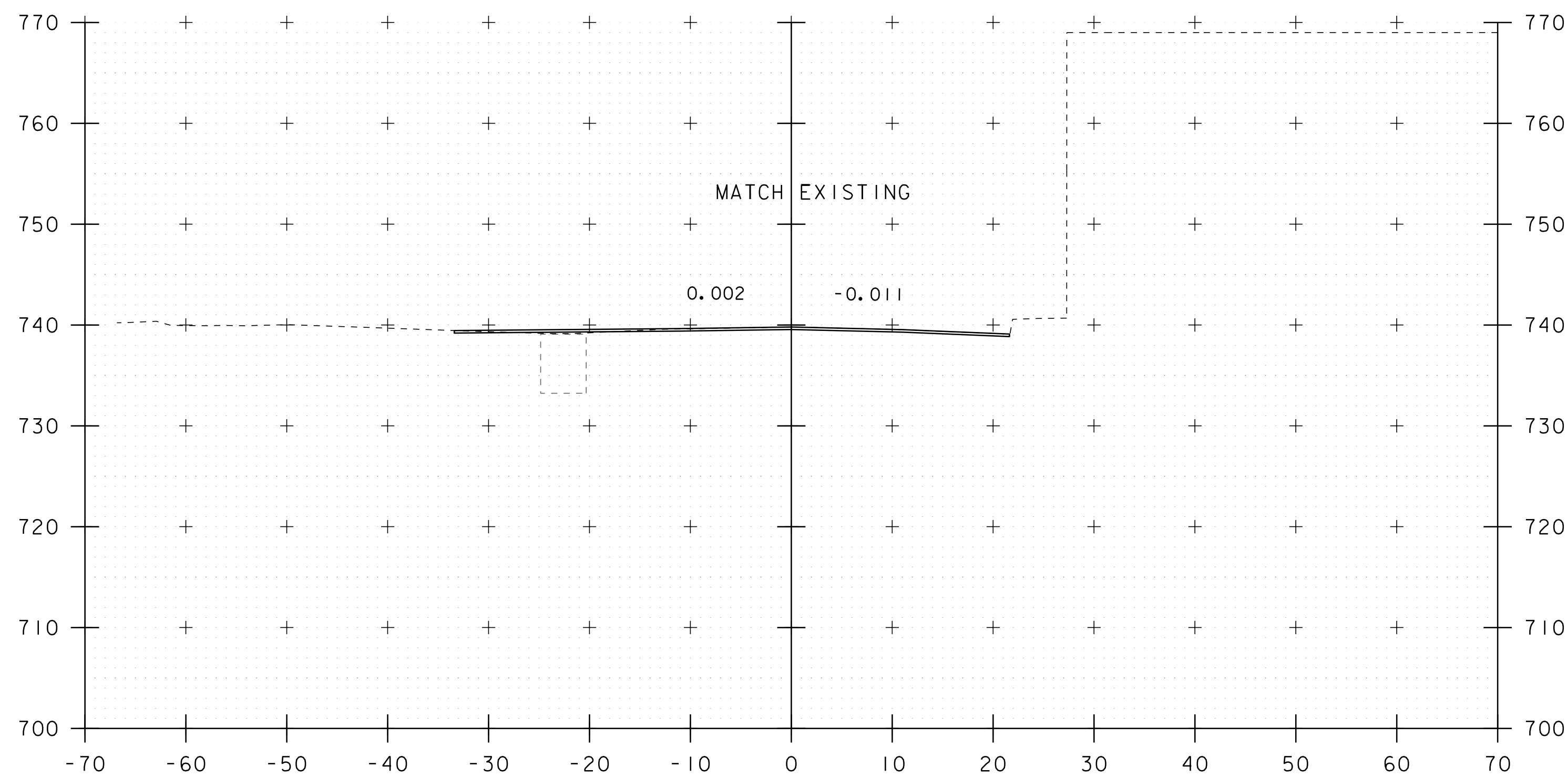
PLOT DATE: 05-MAR-2018  
DRAWN BY: D. KARABEGOVIC  
CHECKED BY: D. PETERSON  
SHEET 28 OF 47



40+25

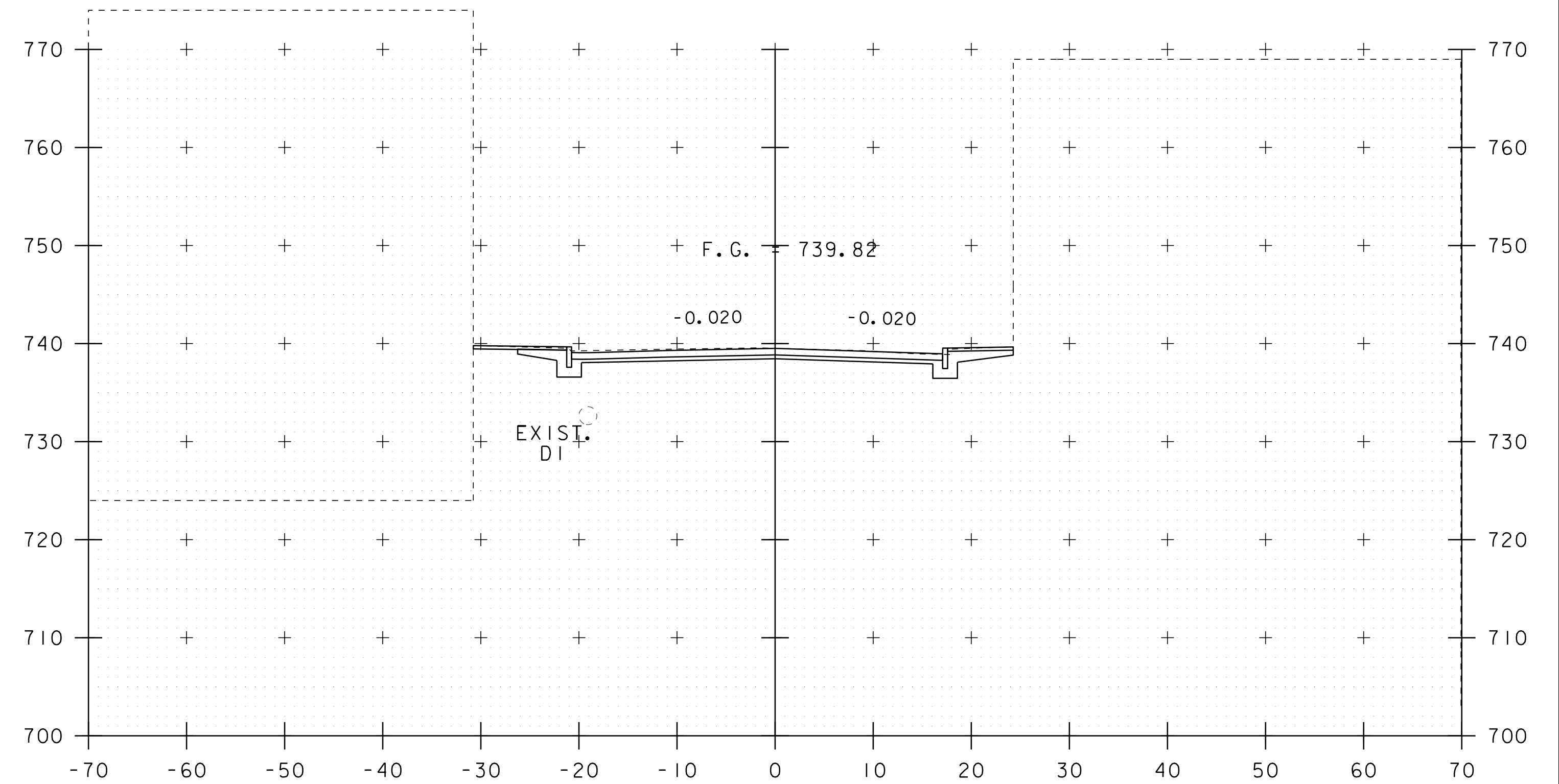


40+75



40+00

BEGIN APPROACH STA 39+25.00

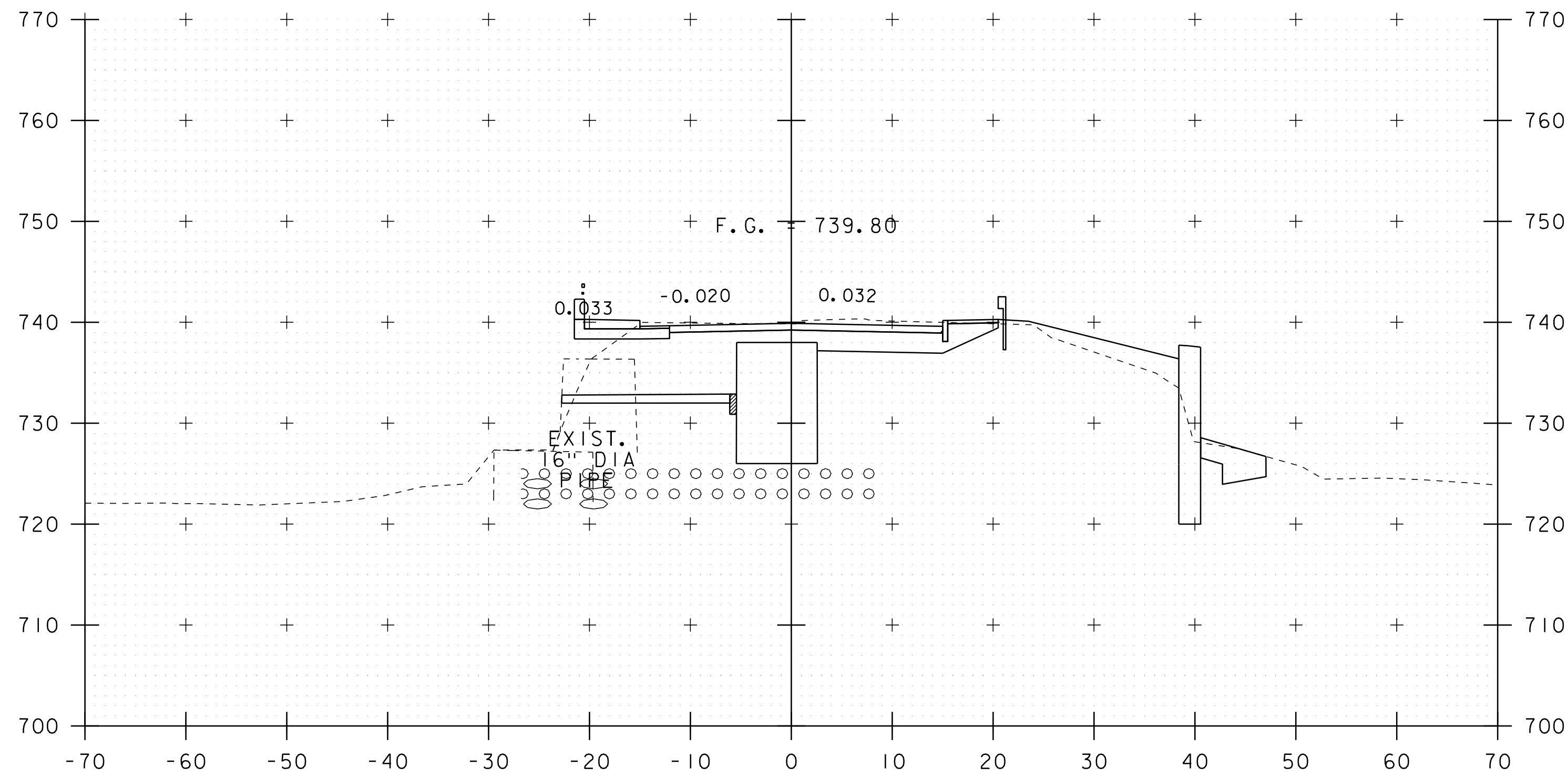


40+50

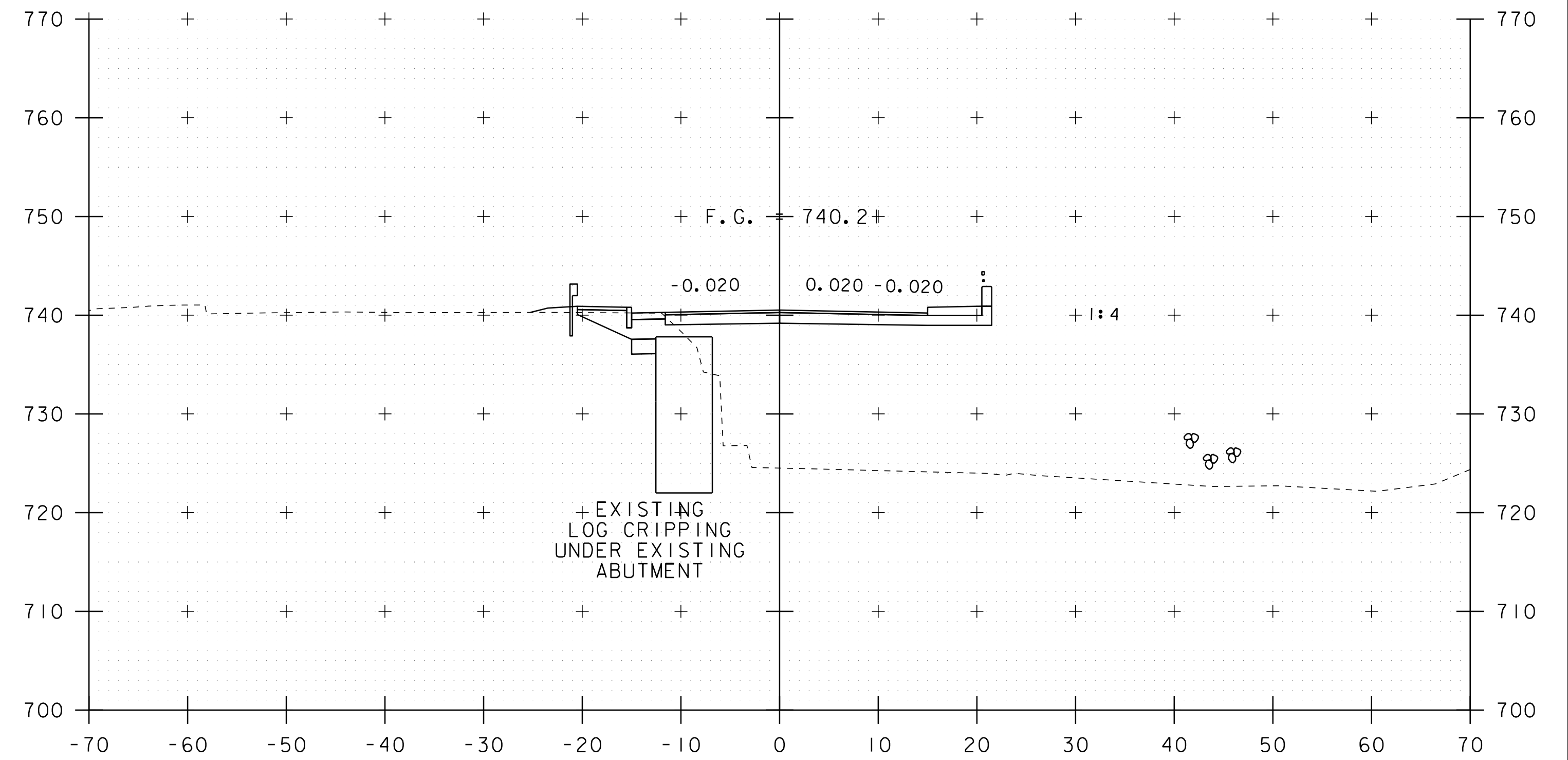
STA. 40+00 TO STA. 40+75

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 CROSS SECTIONS I	SHEET 29 OF 47

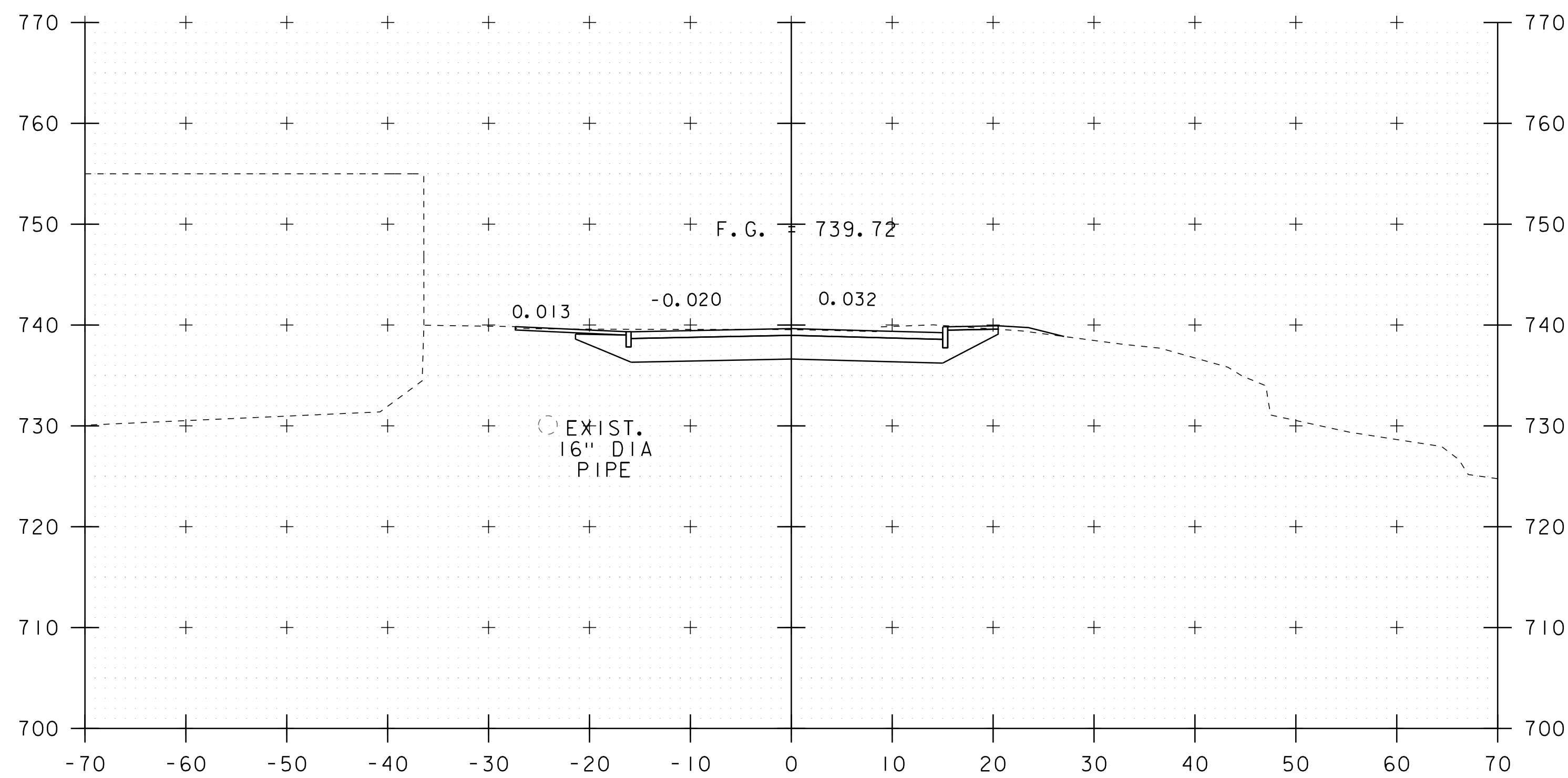




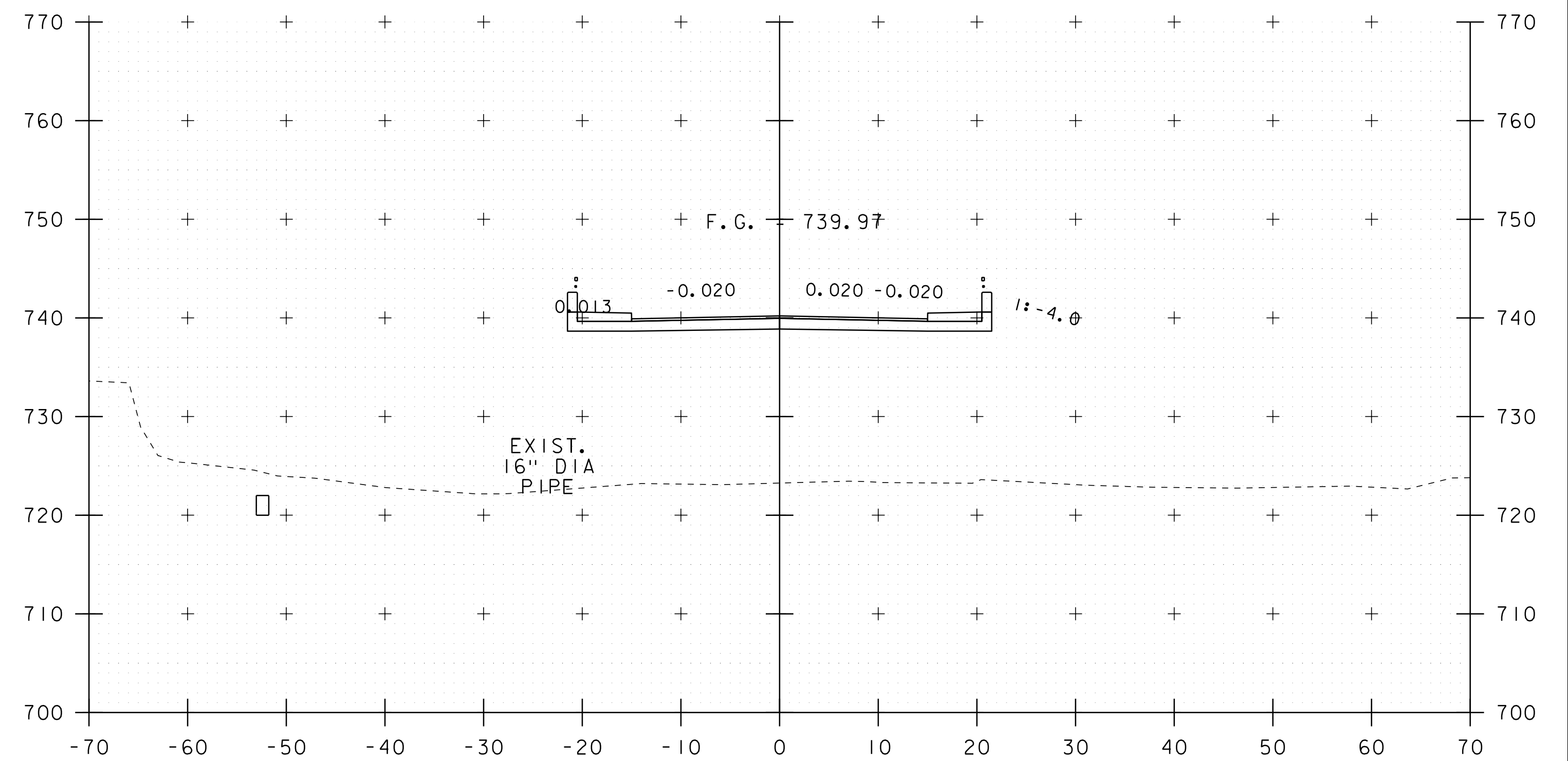
41+25



41+75



41+00



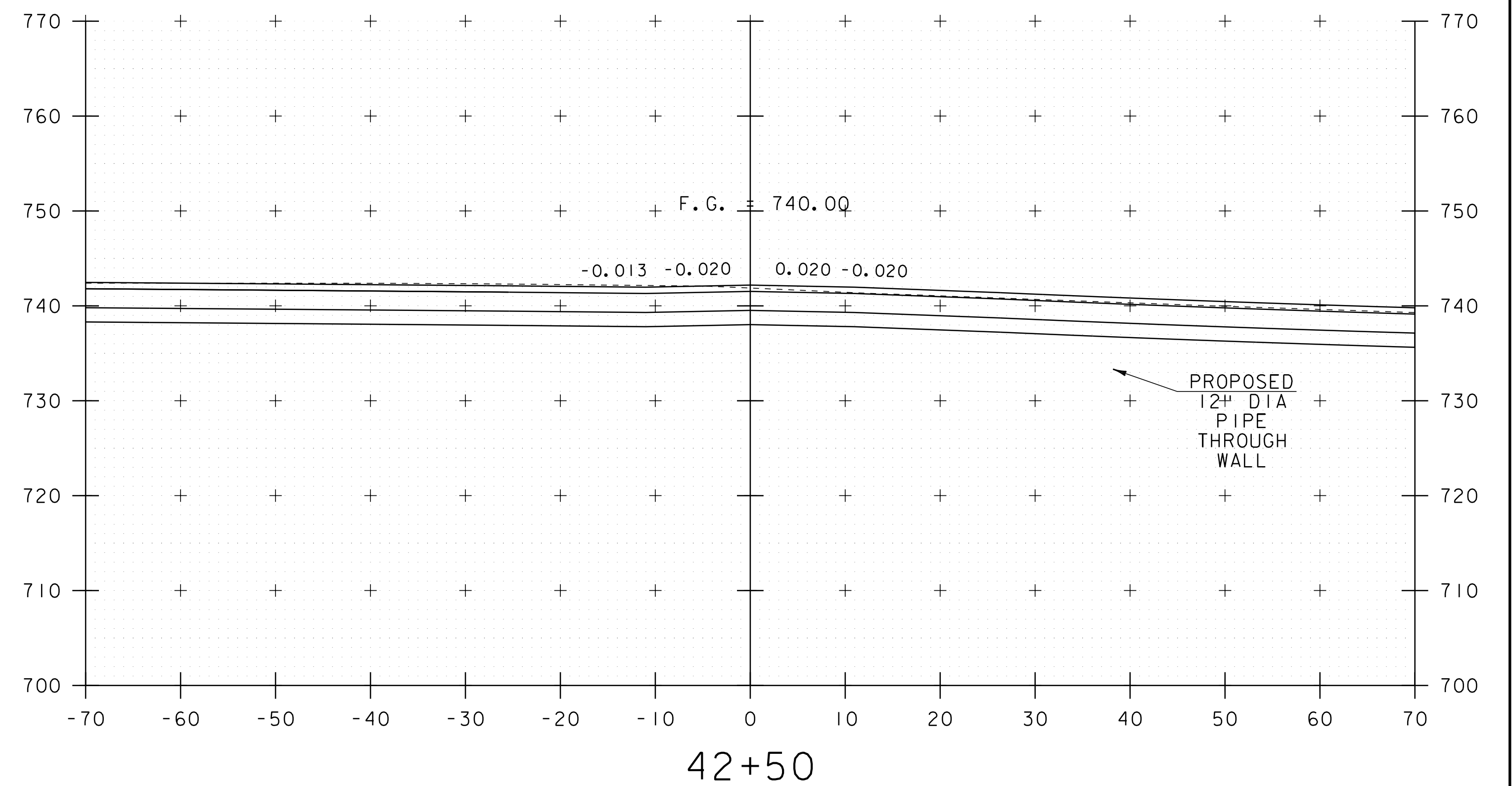
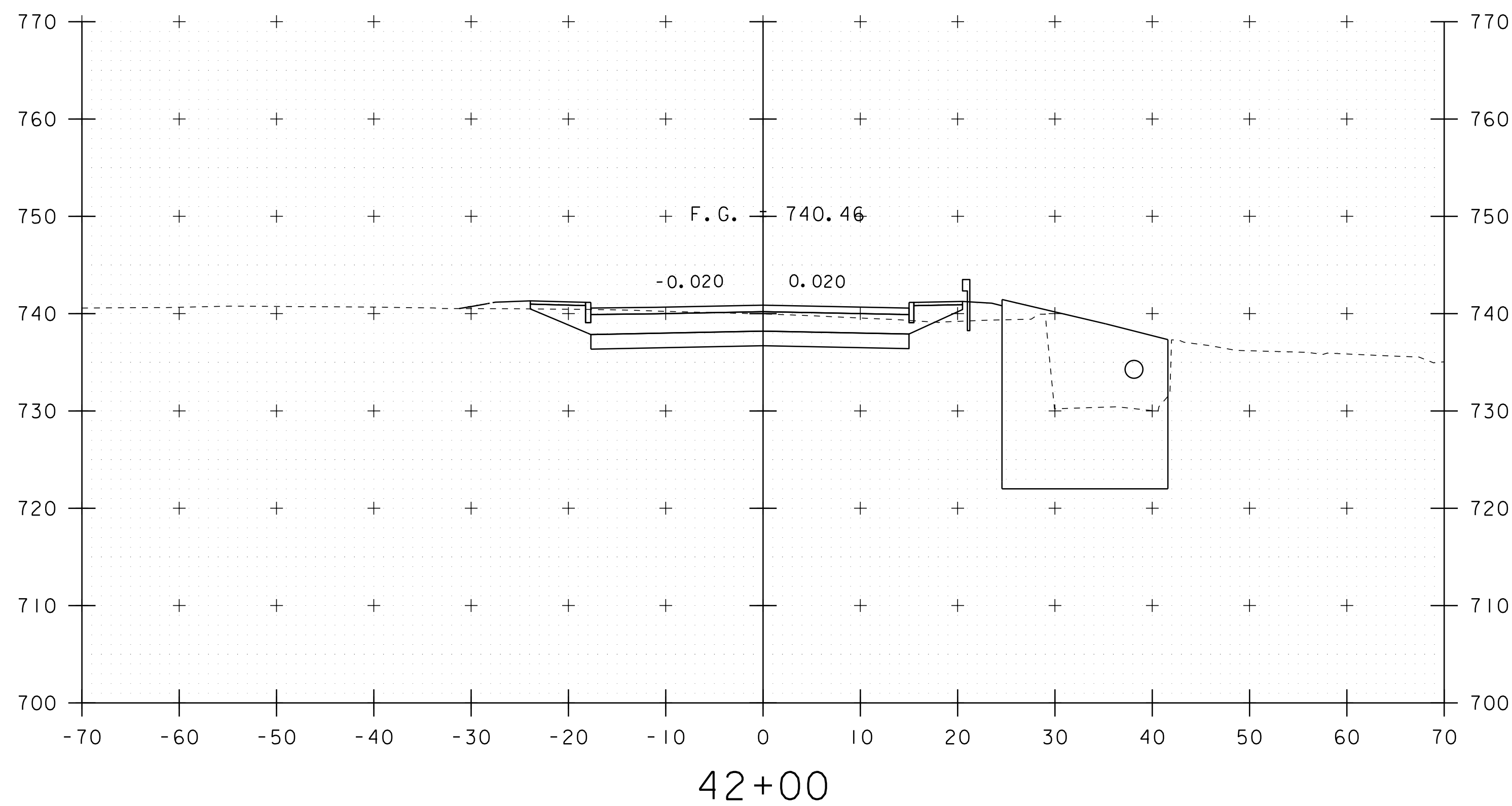
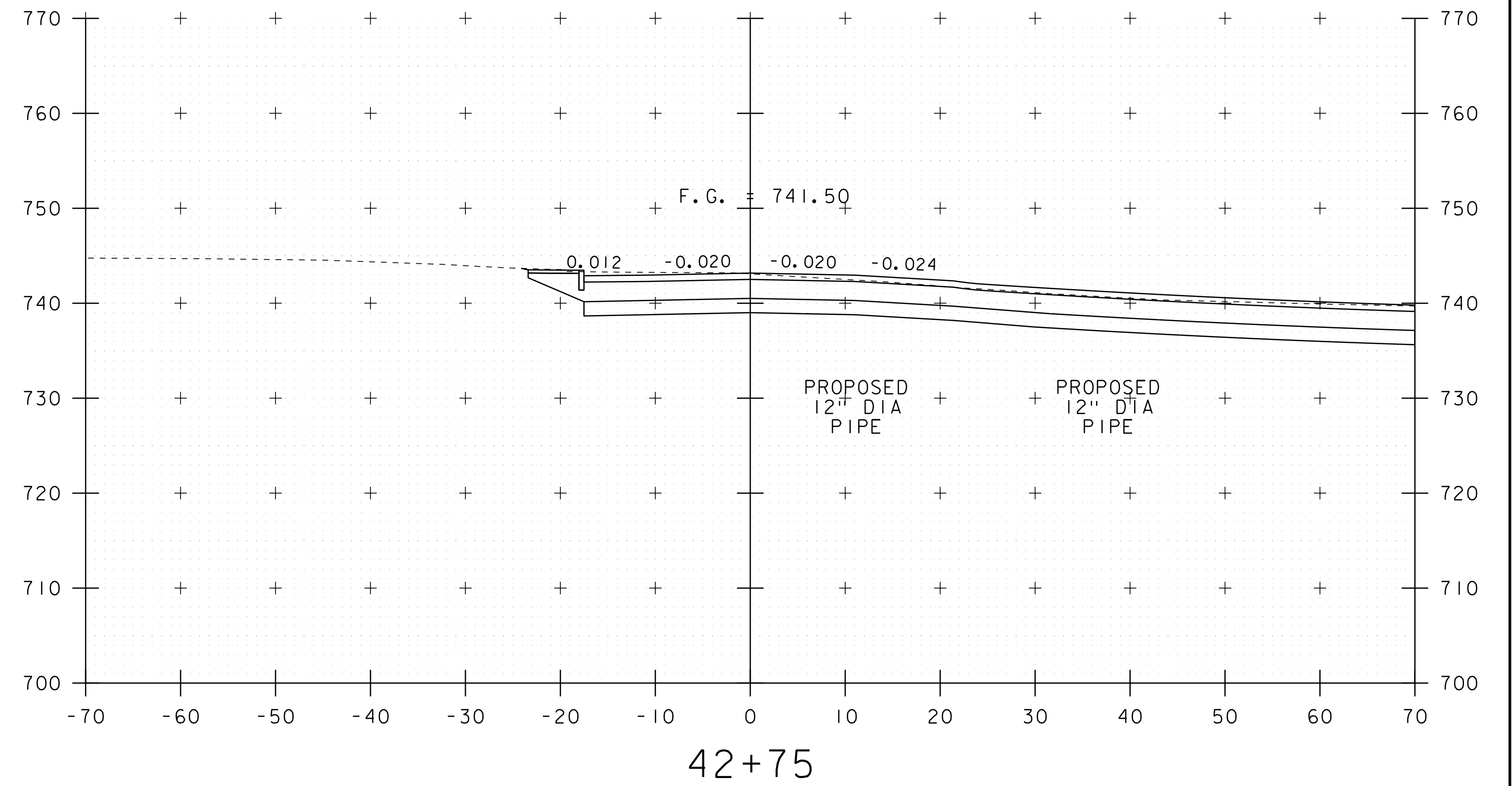
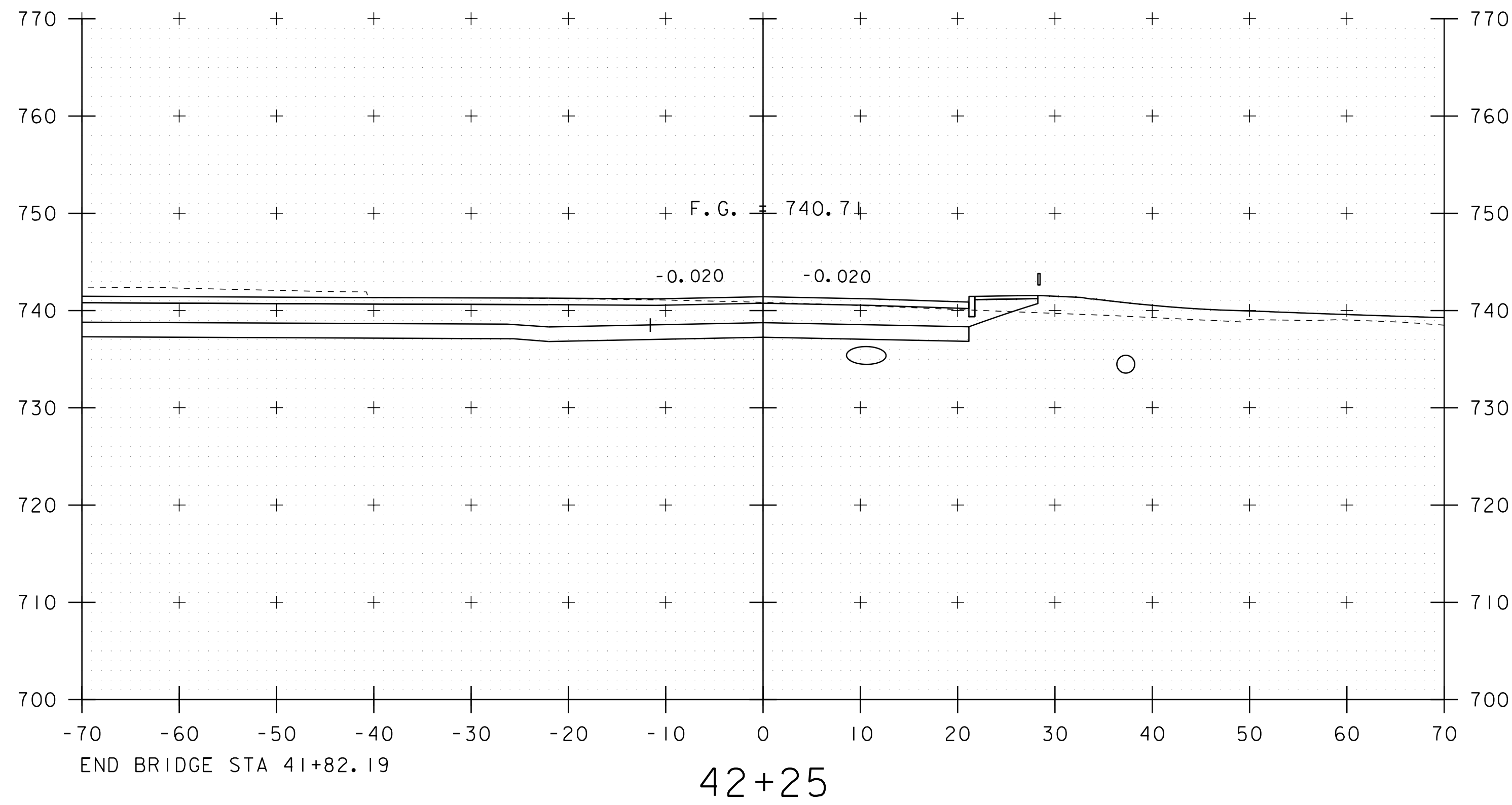
41+50

BEGIN PROJECT STA 40+50.00

BEGIN BRIDGE STA 41+25.04

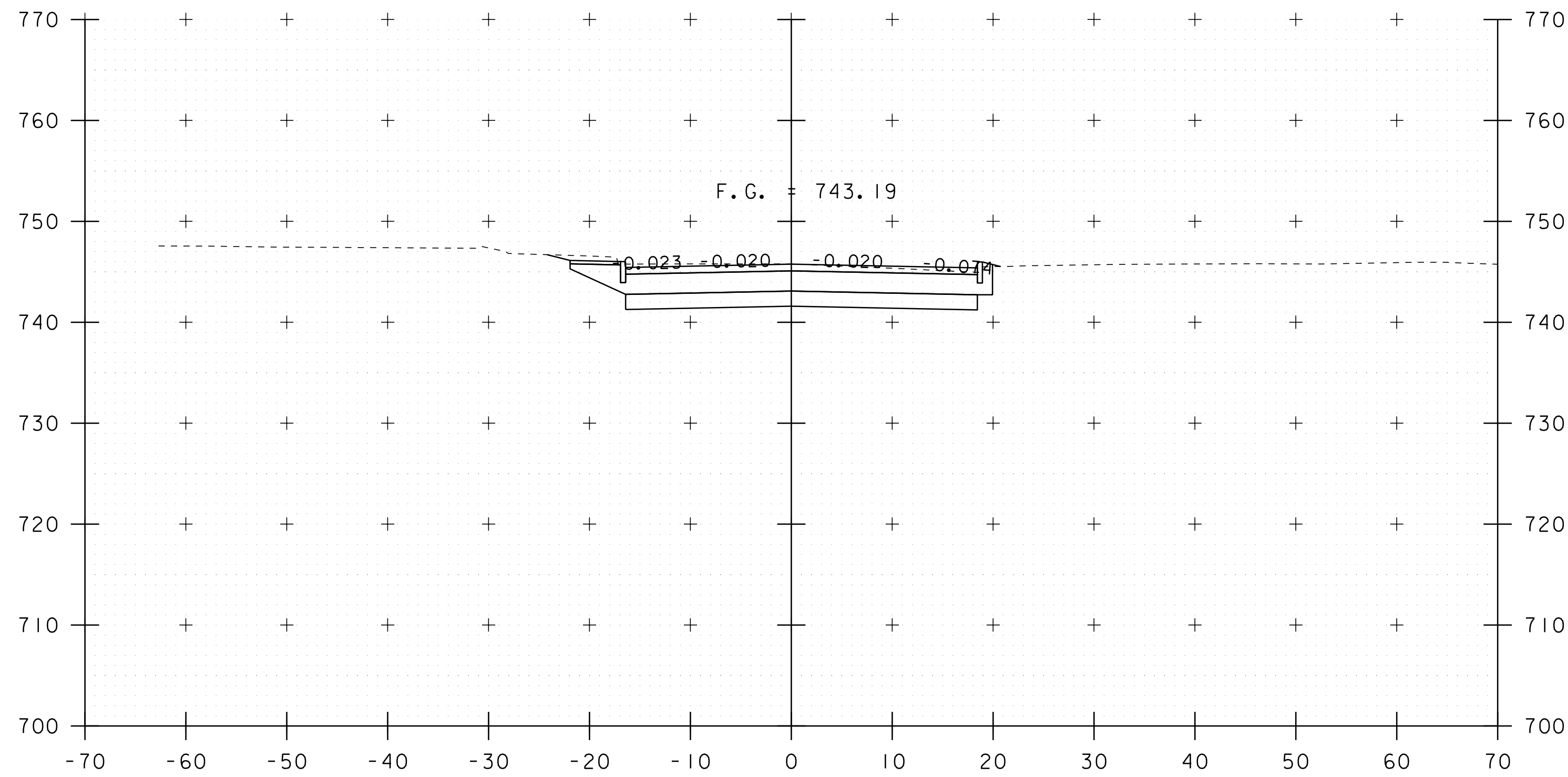
STA. 41+00 TO STA. 41+75

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 CROSS SECTIONS 2	SHEET 30 OF 47

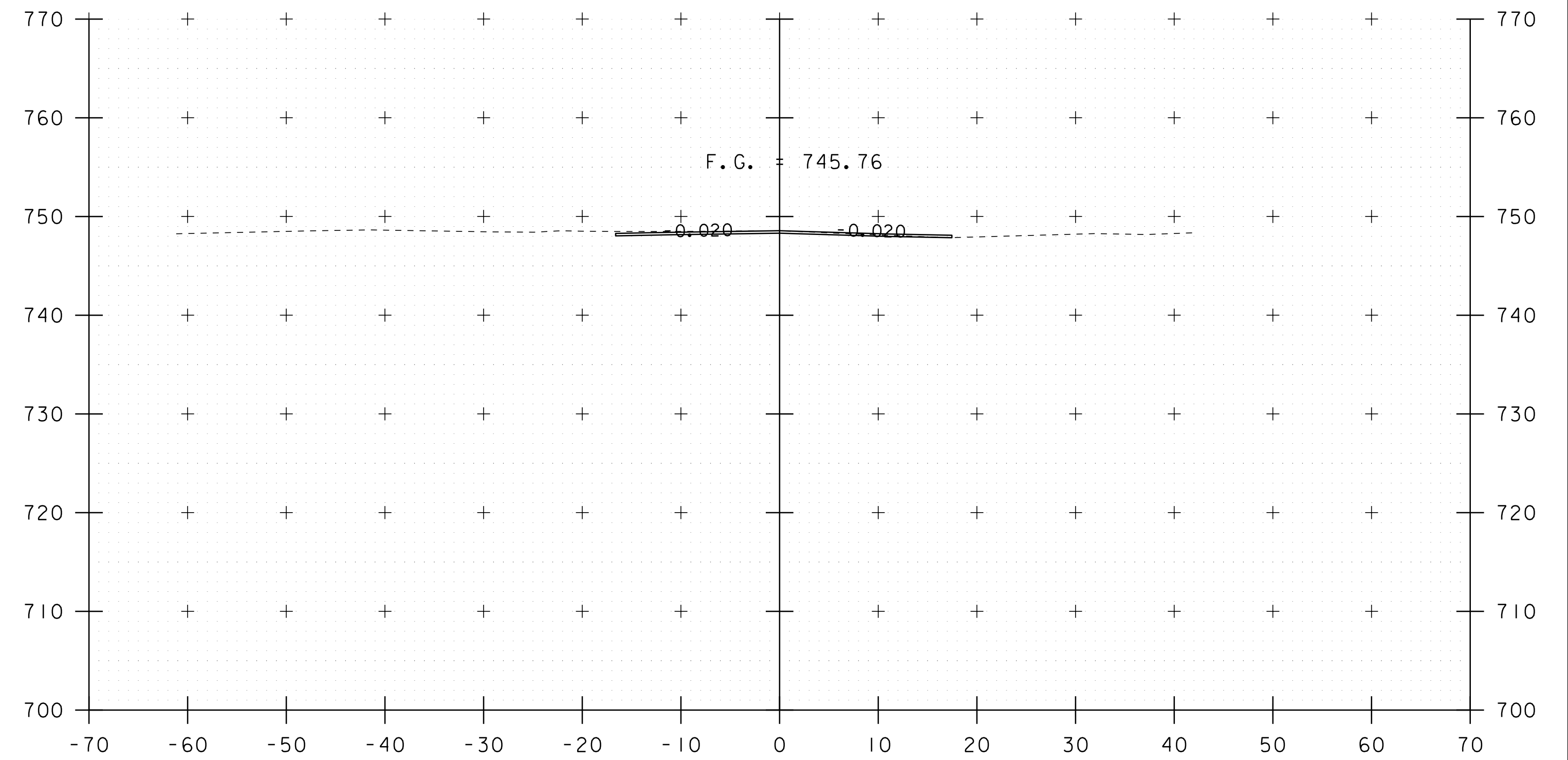


STA. 42+00 TO STA. 42+75

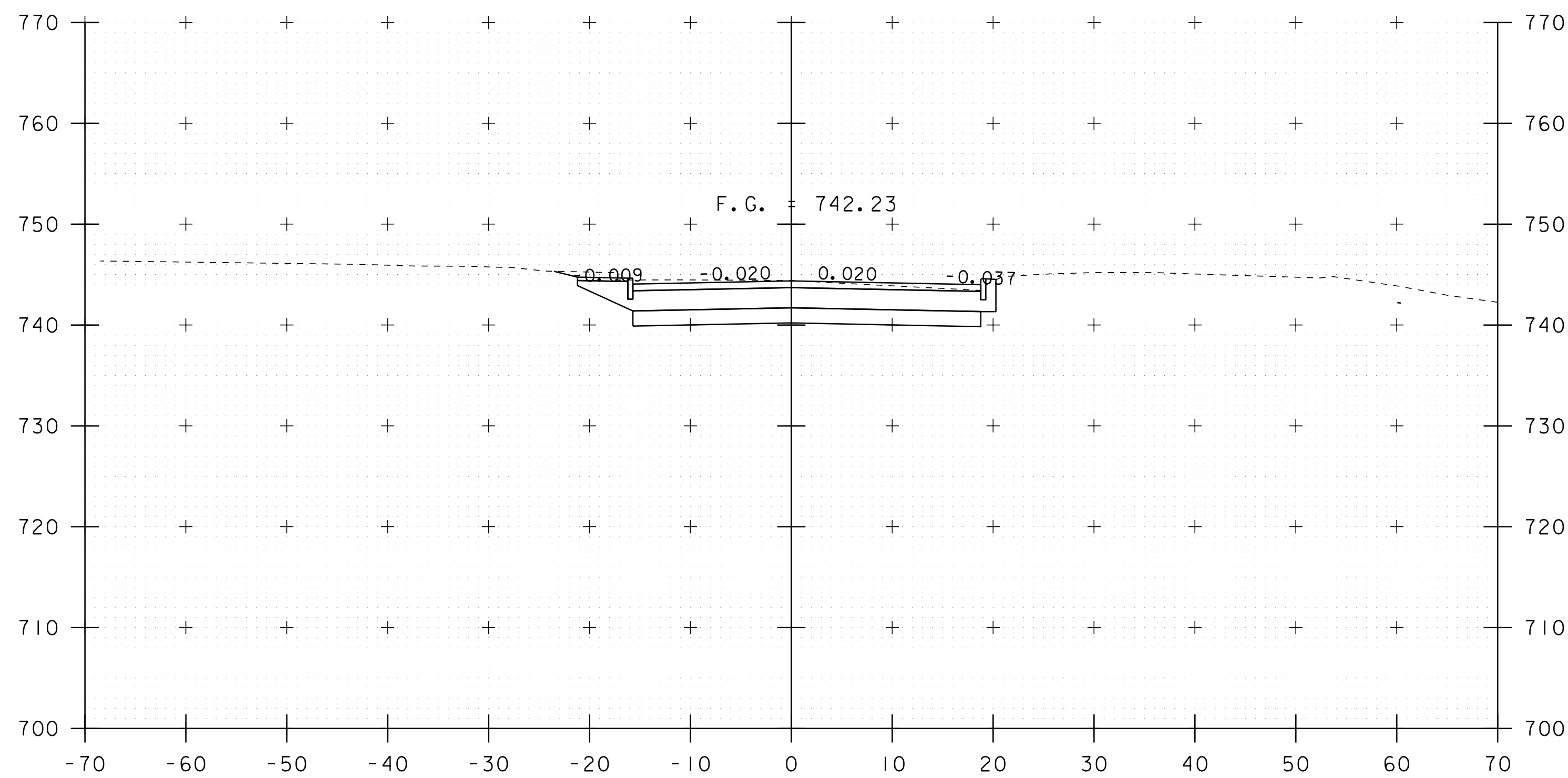
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 CROSS SECTIONS 3	SHEET 31 OF 47



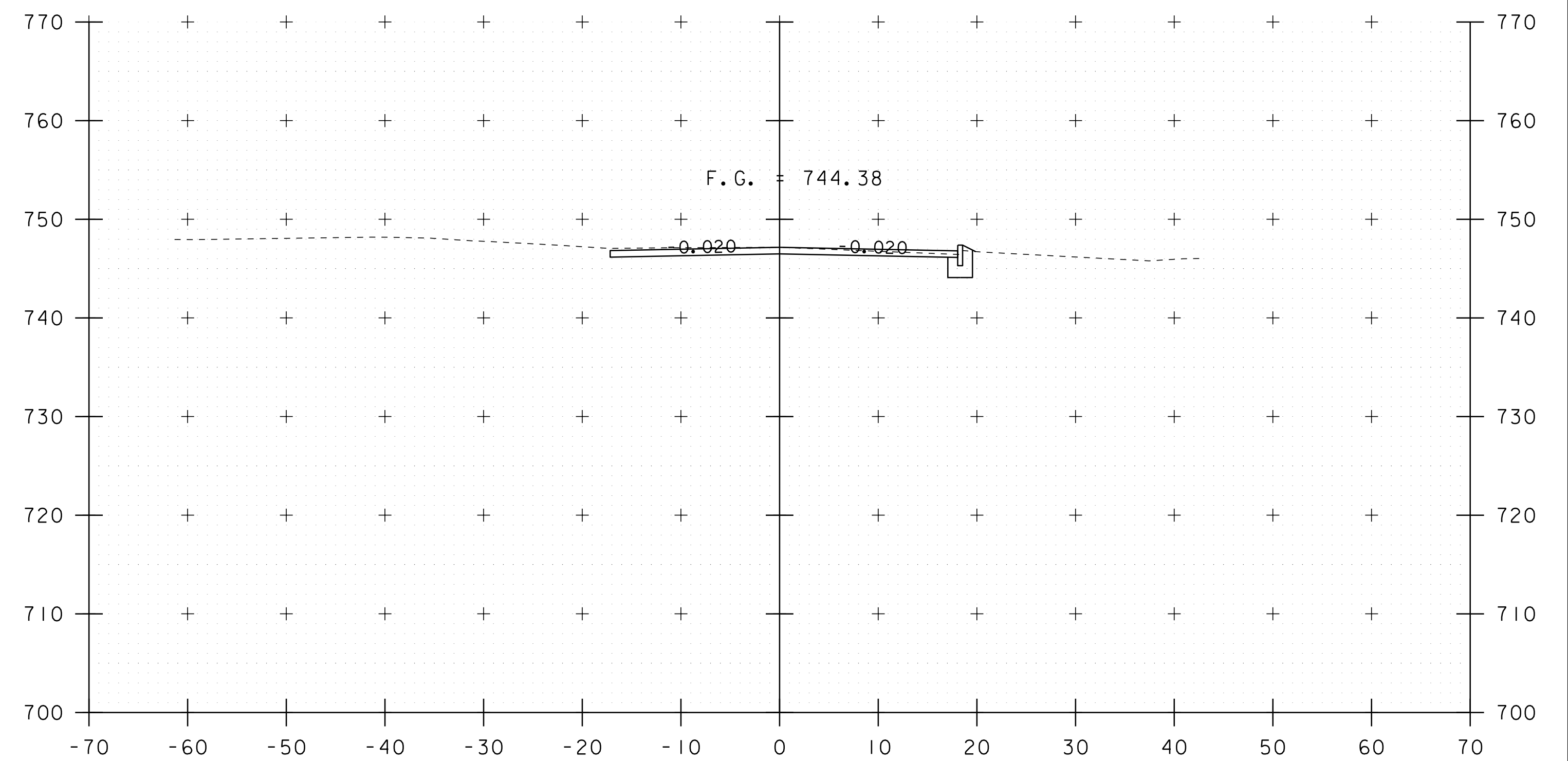
43+25



43+75



43+00



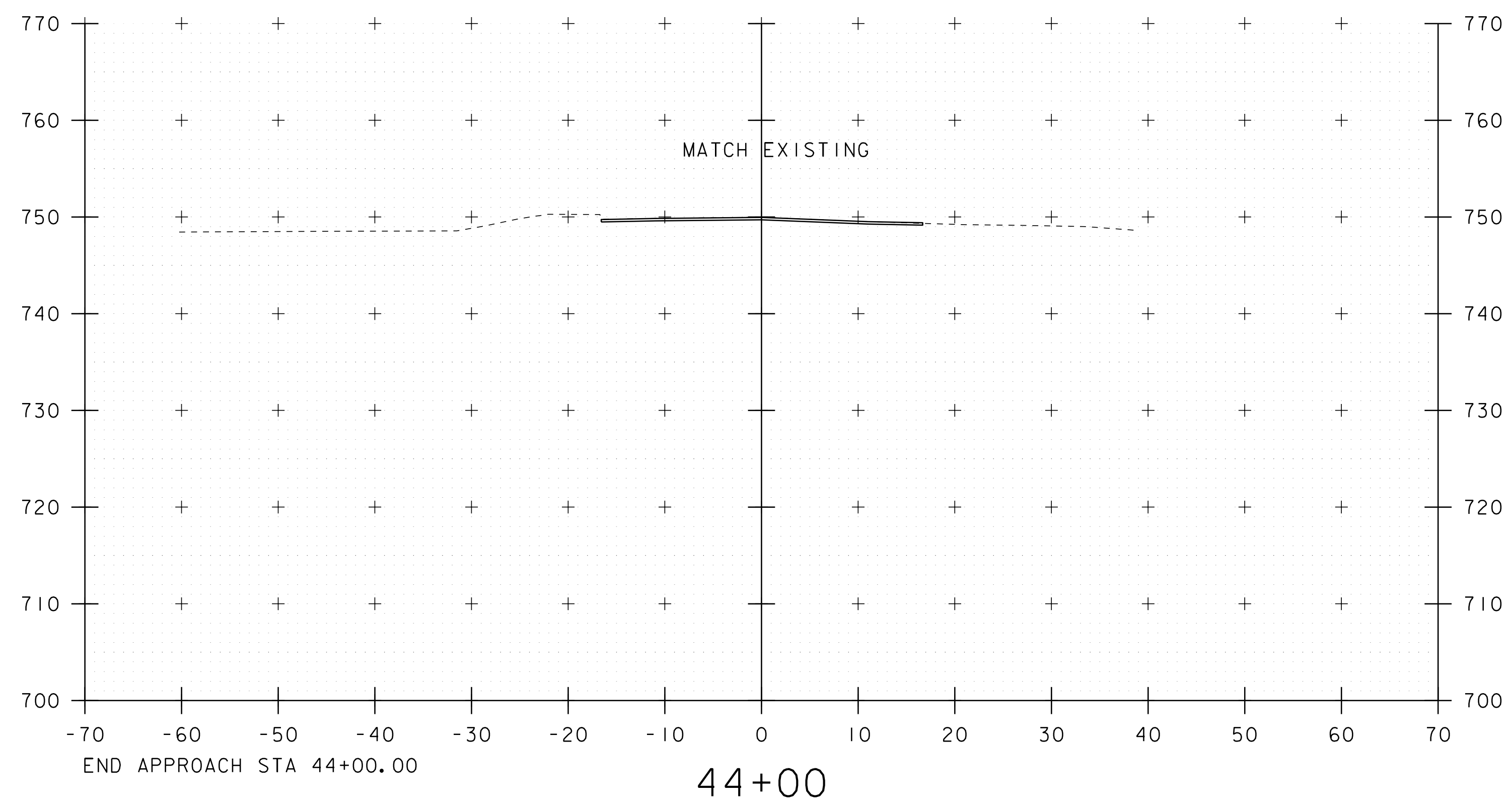
END PROJECT STA 43+00.00

43+50

STA. 43+00 TO STA. 43+75

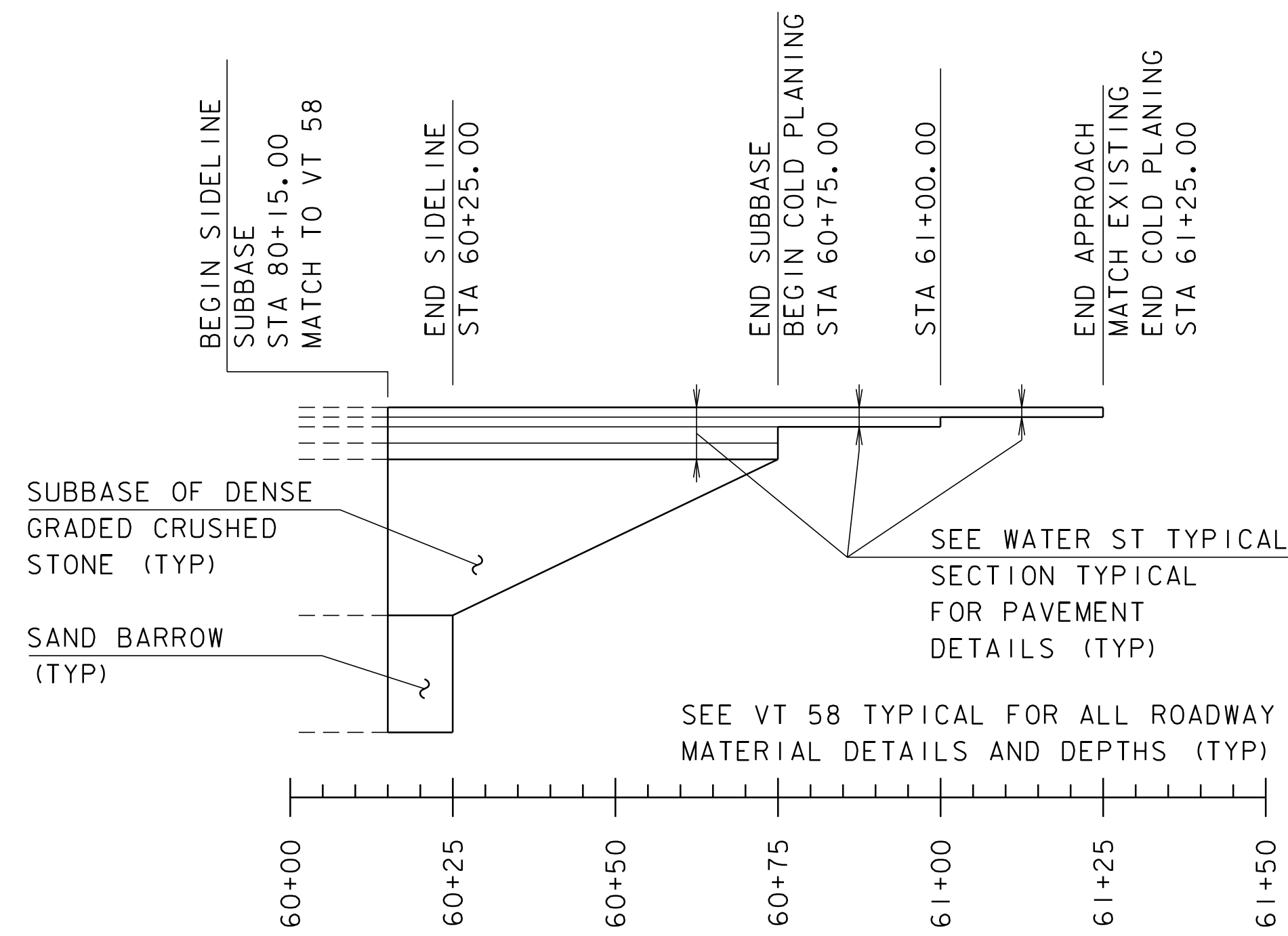
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 CROSS SECTIONS 4	SHEET 32 OF 47





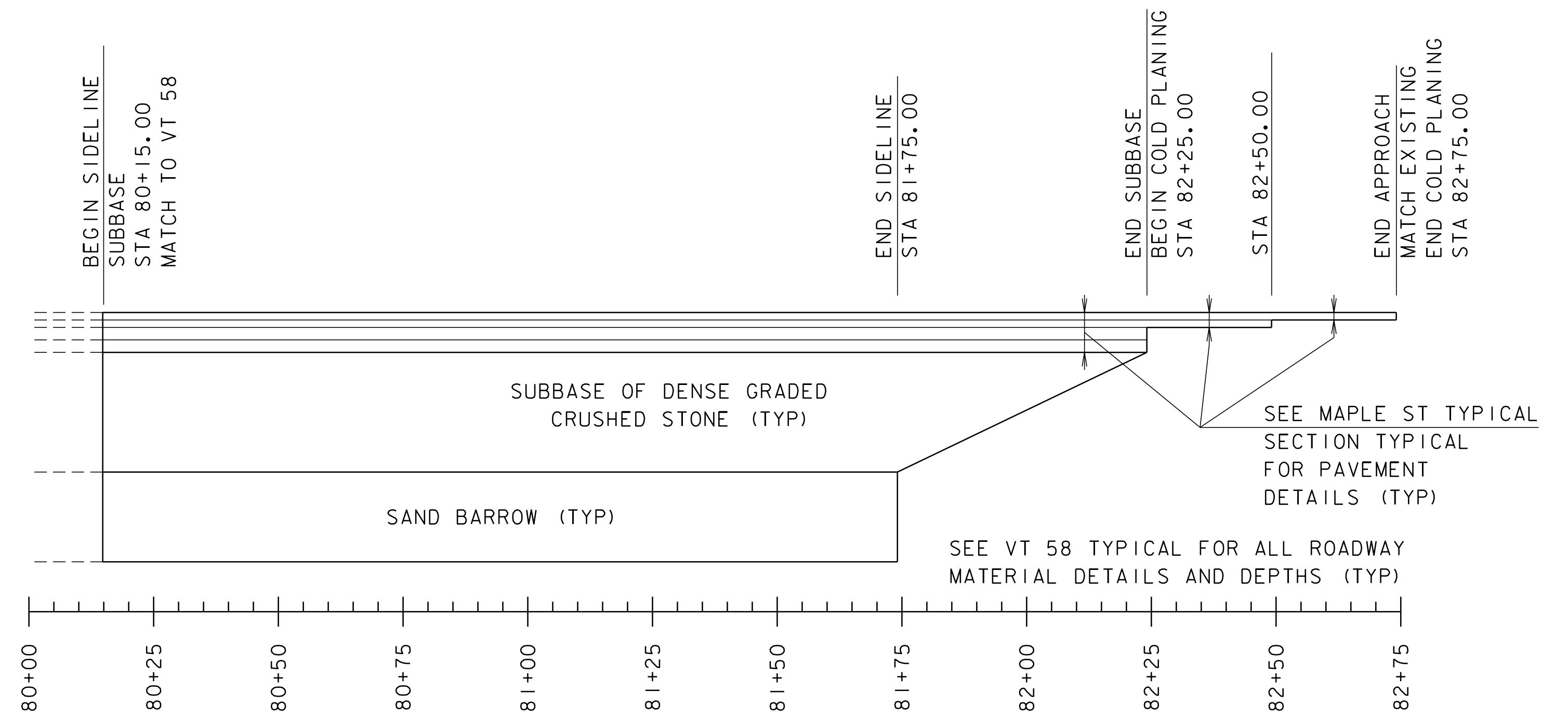
STA. 44+00 TO STA. 44+00

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT58 CROSS SECTIONS 5	SHEET 33 OF 47



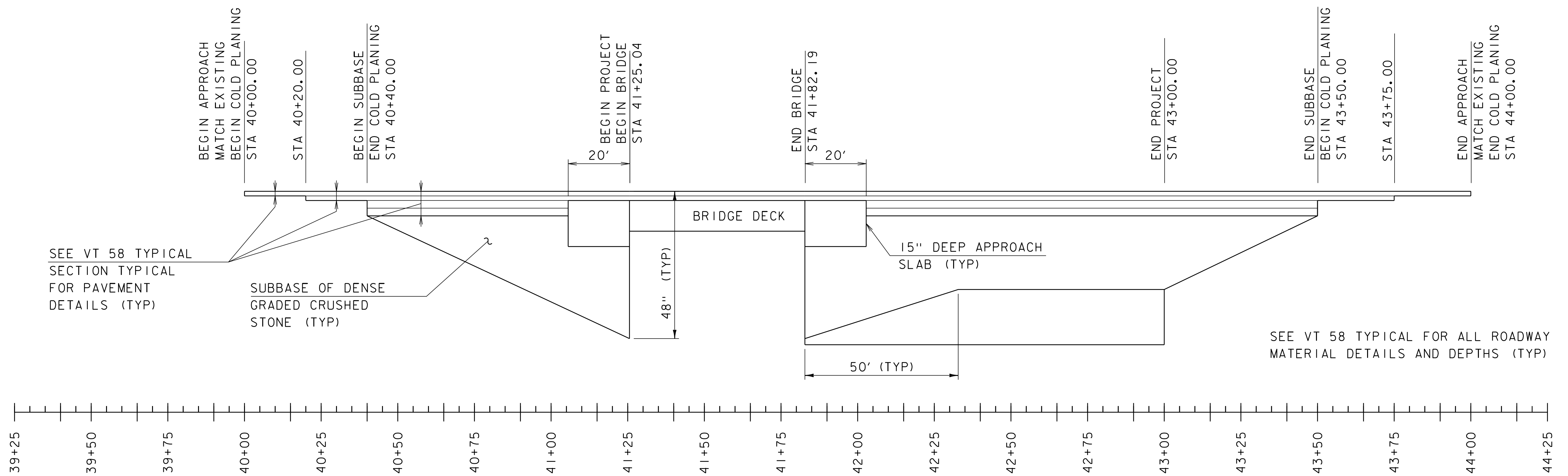
**WATER ST TRANSITION DETAIL**

SCALE: HORIZONTAL 1" = 20' -0"  
VERTICAL 12 (TIMES EXAGGERATED)



**MAPLE ST TRANSITION DETAIL**

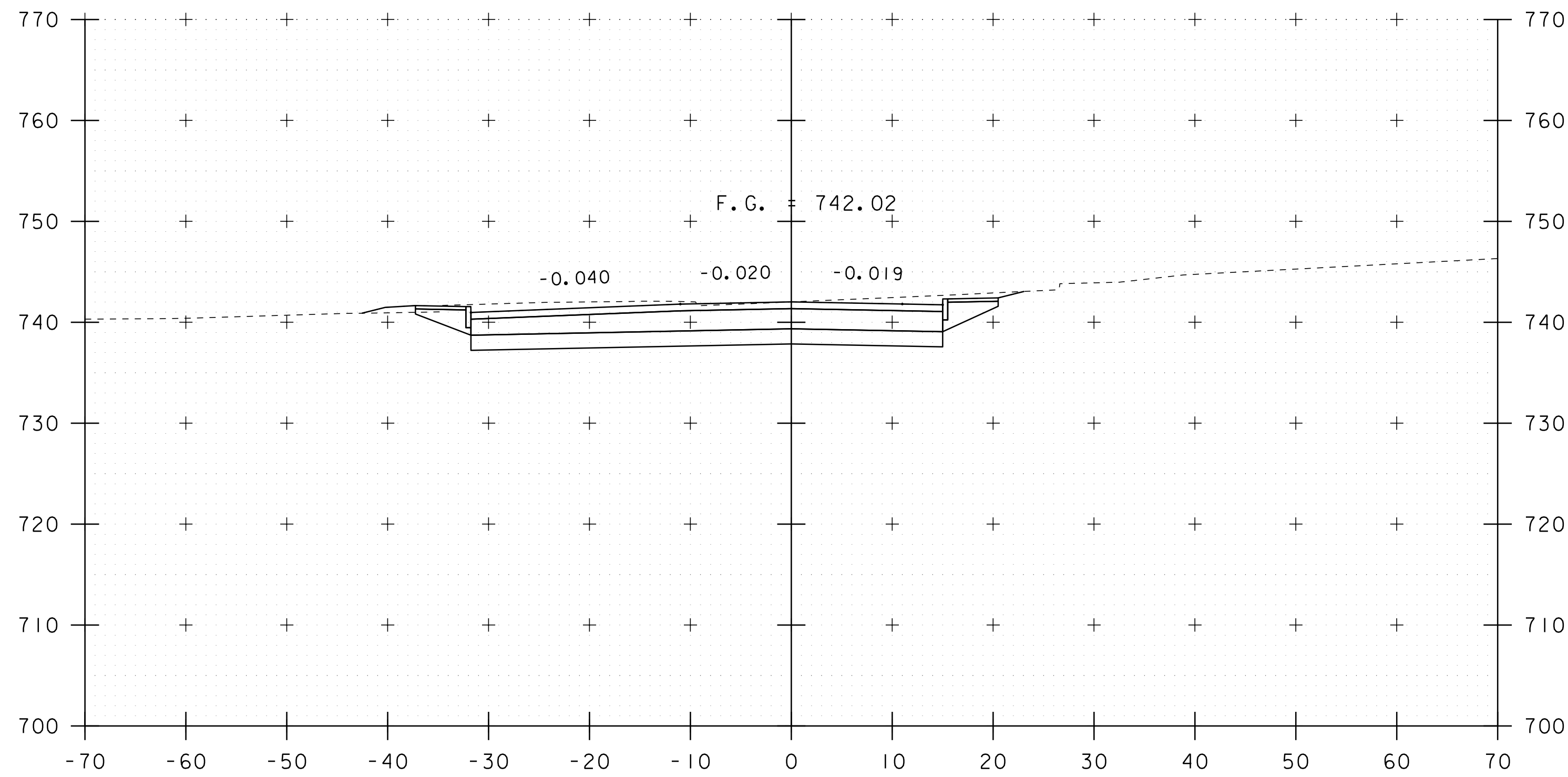
SCALE: HORIZONTAL 1" = 20' -0"  
VERTICAL 12 (TIMES EXAGGERATED)



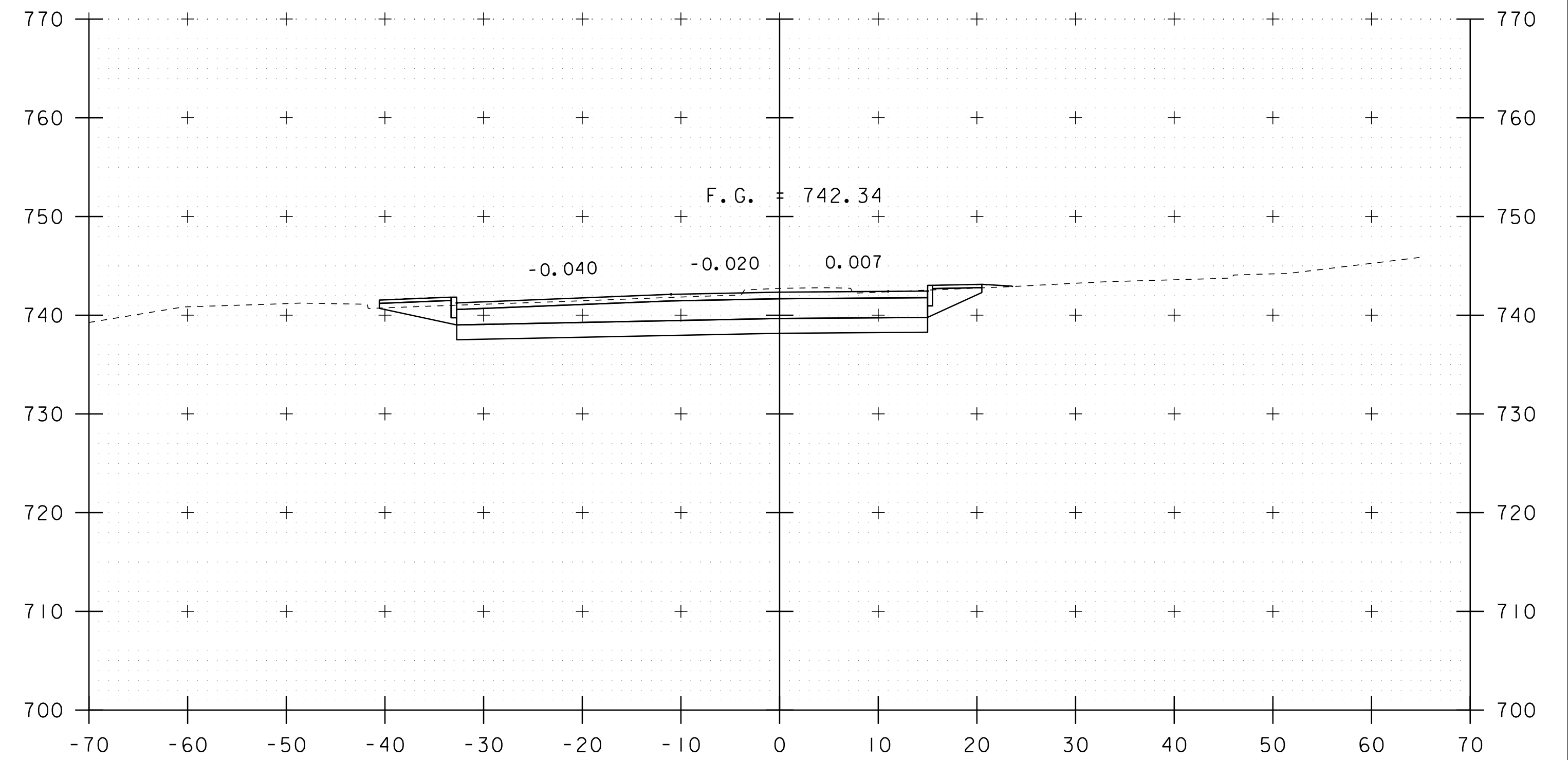
**VT 58 MATERIAL TRANSITION DETAIL**

SCALE: HORIZONTAL 1" = 20' -0"  
VERTICAL 12 (TIMES EXAGGERATED)

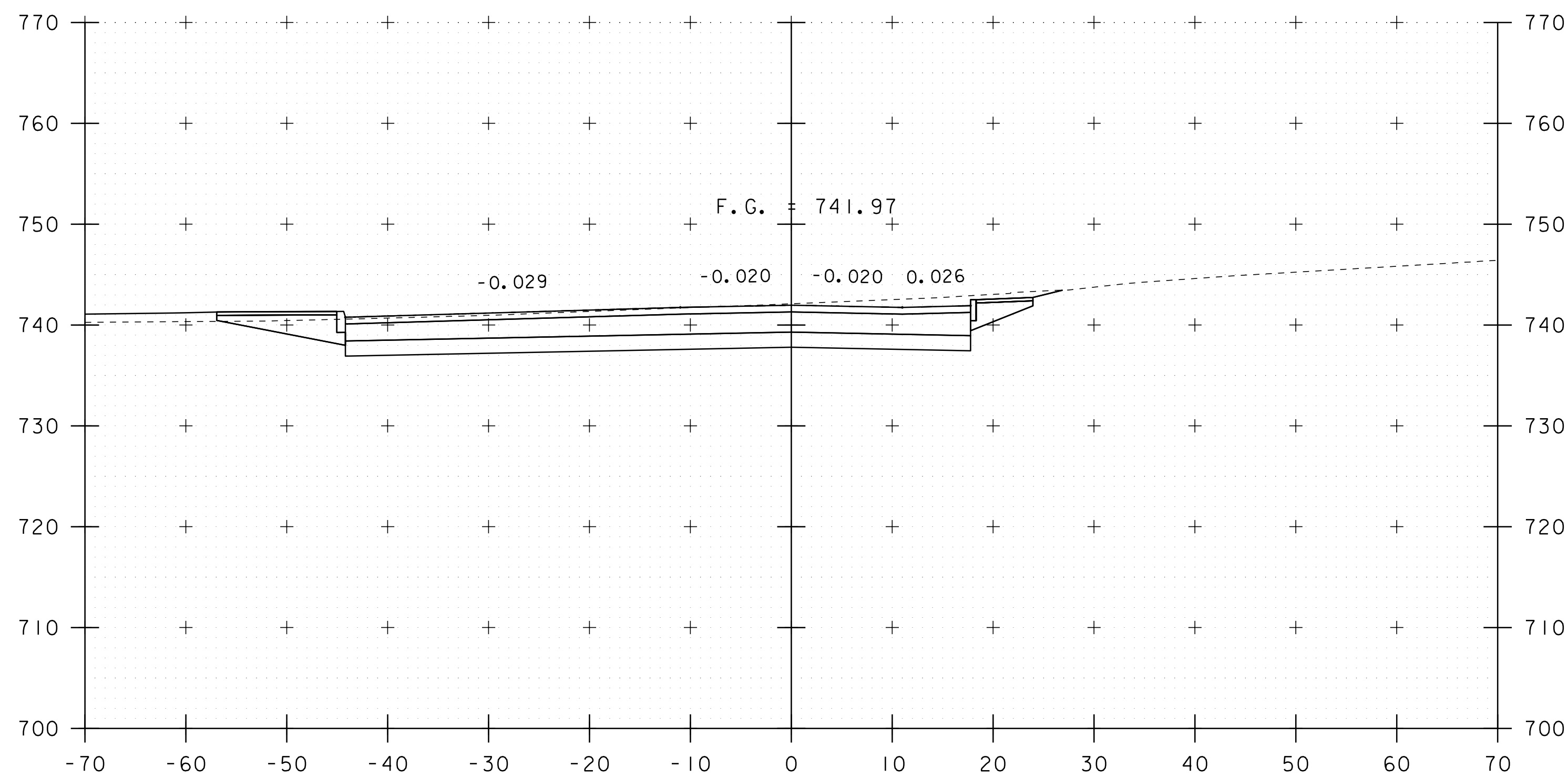
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084pro.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MATERIAL TRANSITIONS	SHEET 34 OF 47



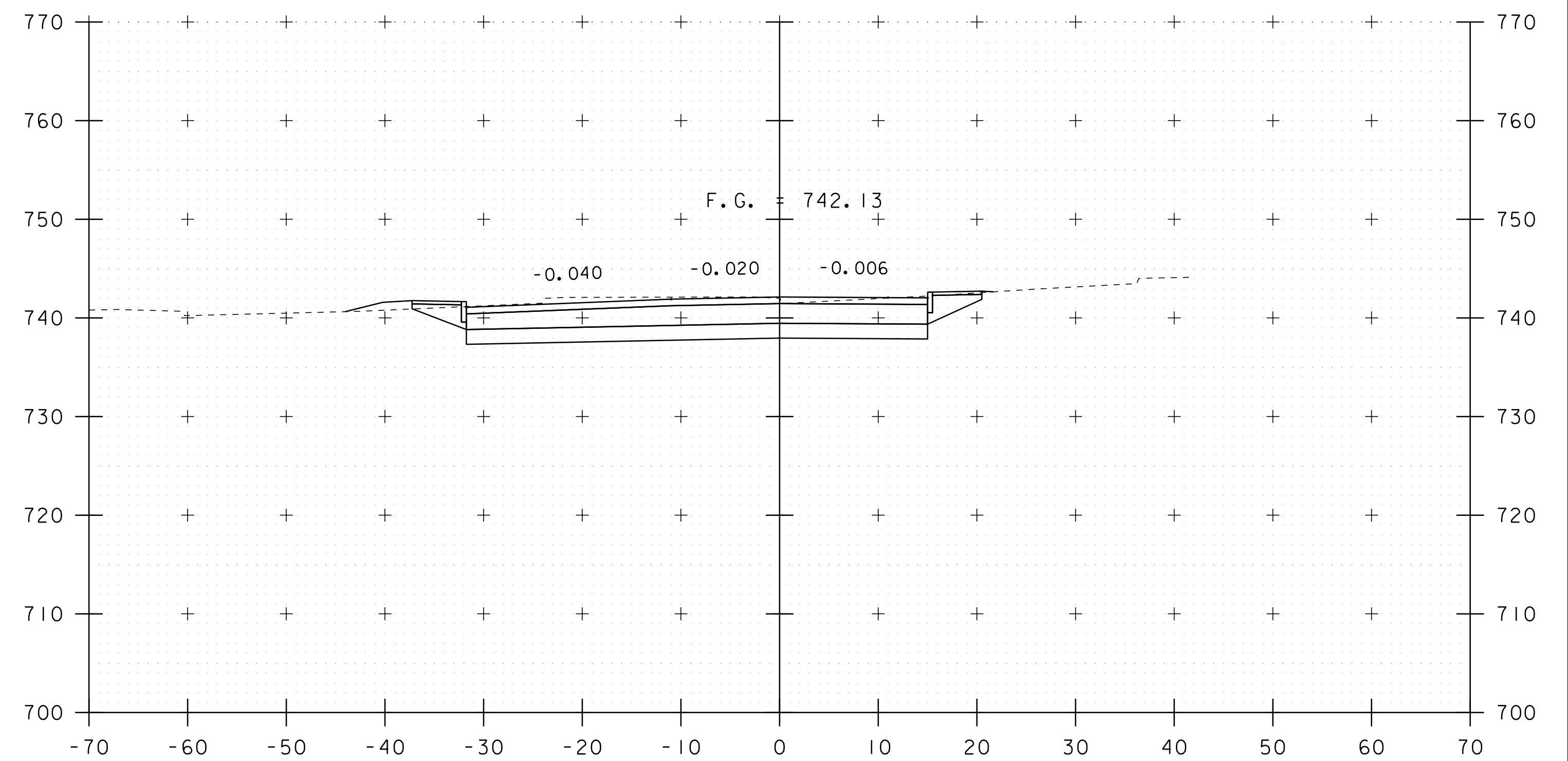
80+50



81+50



80+25

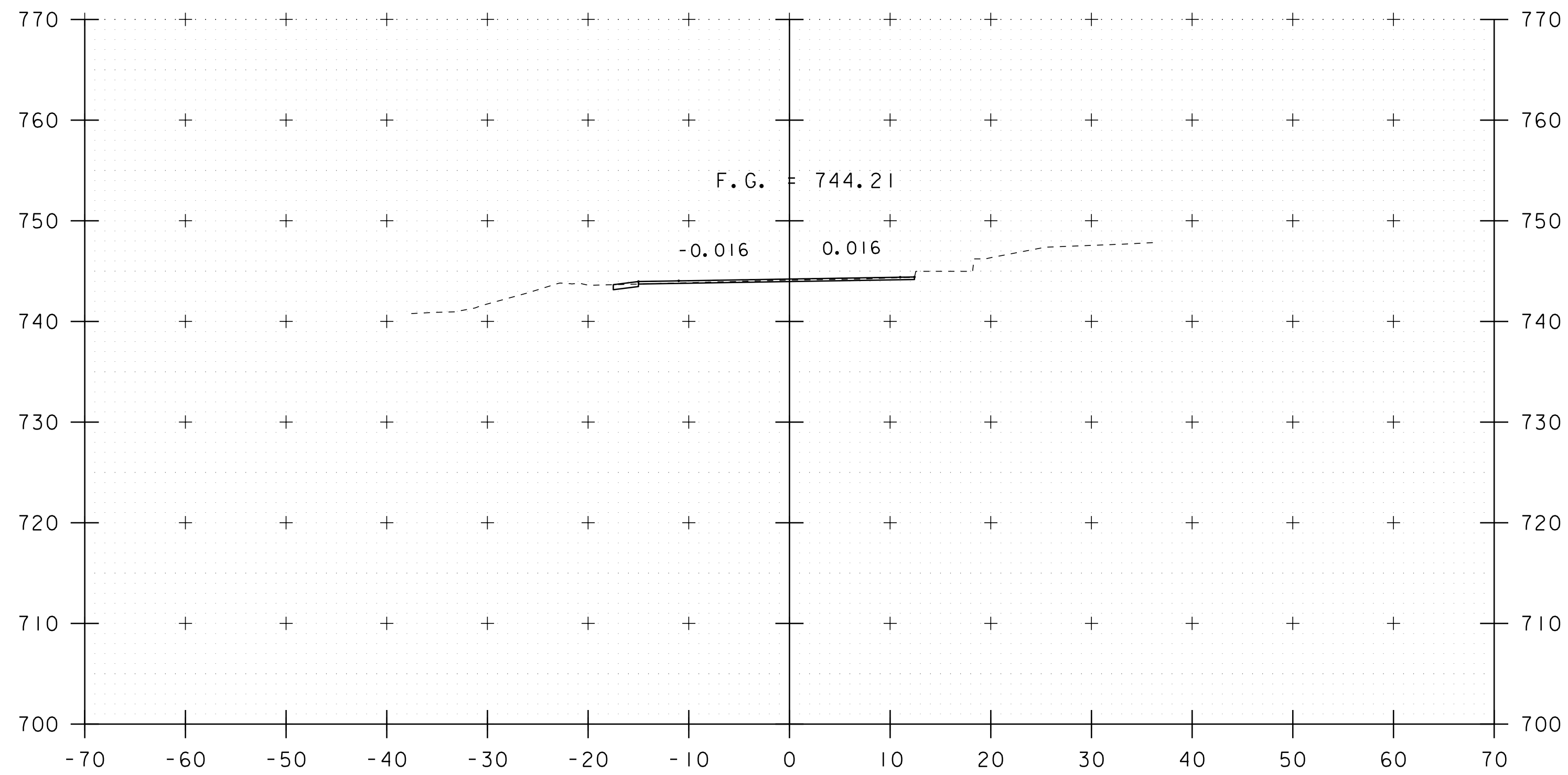


81+00

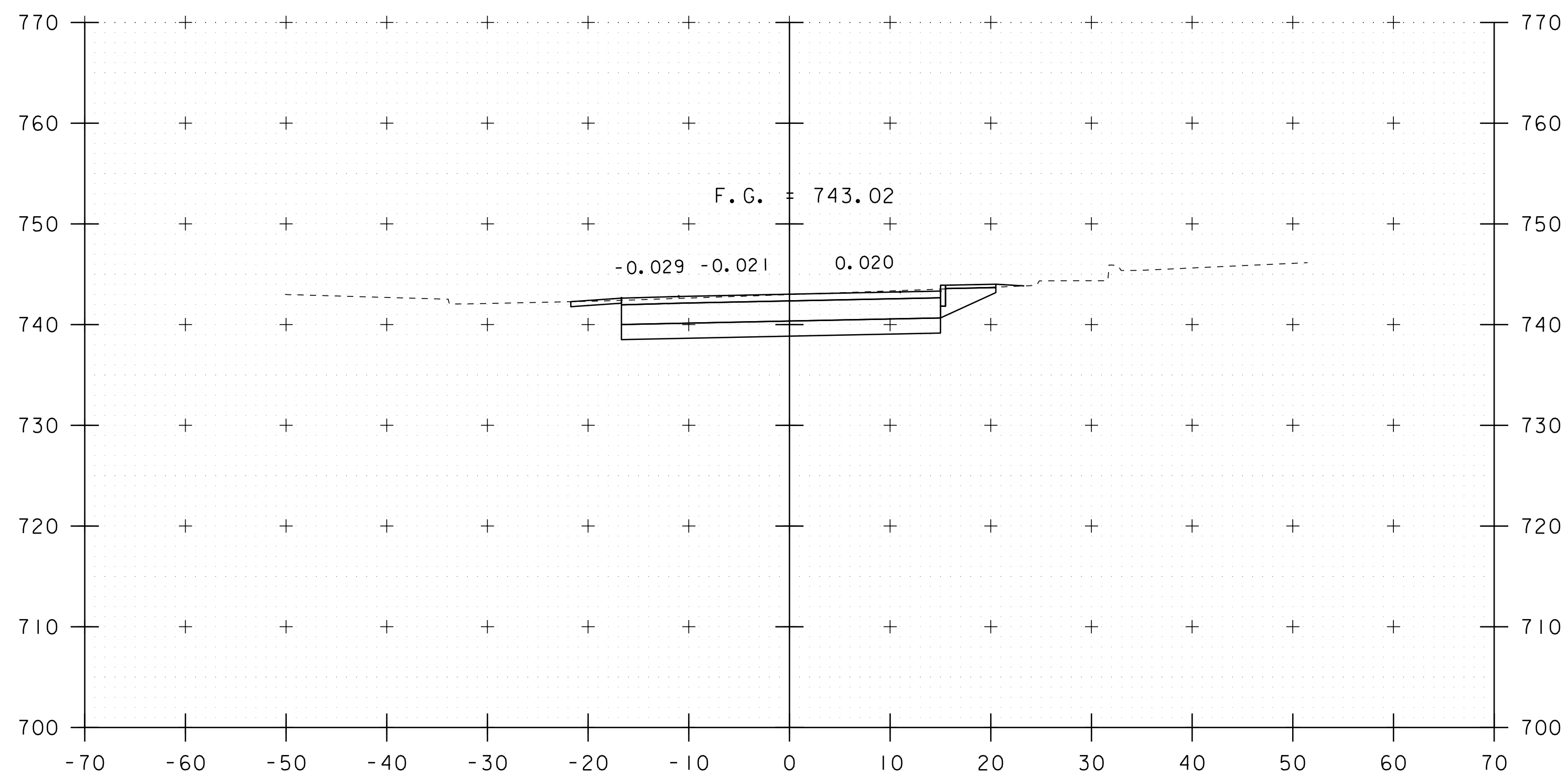
STA. 80+25 TO STA. 81+50

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAPLE ST CROSS SECTIONS I	SHEET 35 OF 47

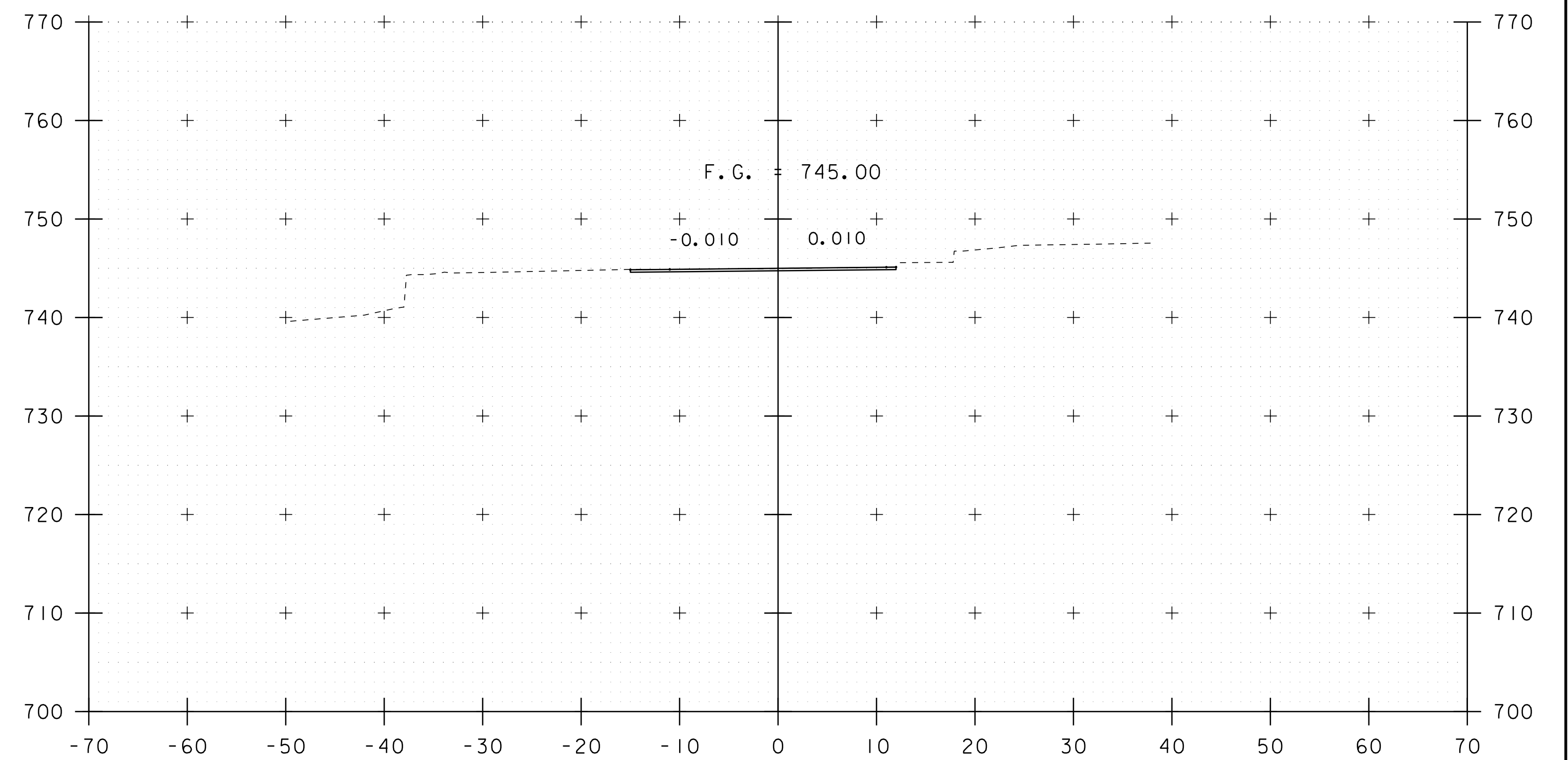




82+50



82+00

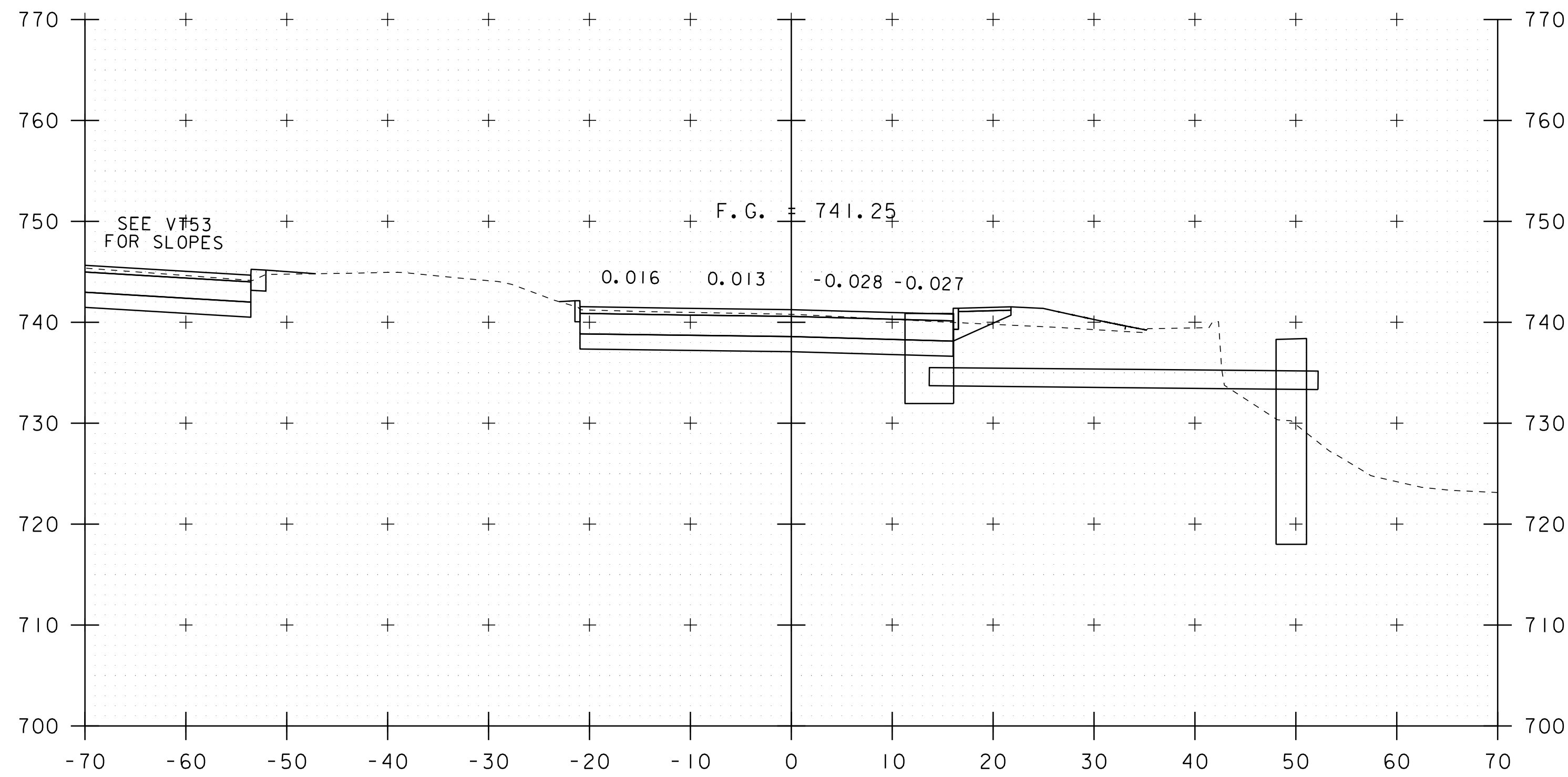


END SIDELINE APPROACH STA 82+75.00

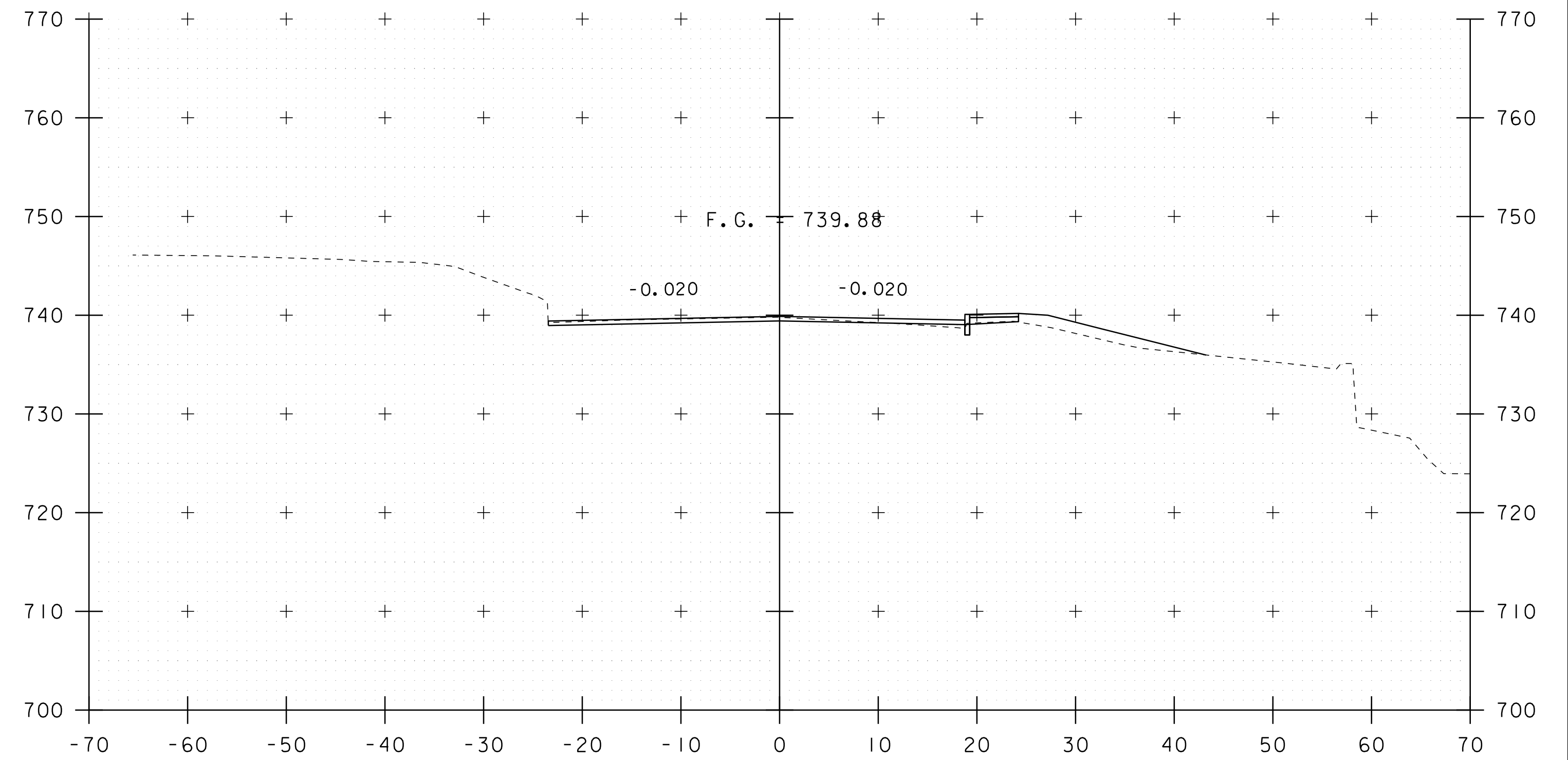
82+75

STA. 82+00 TO STA. 82+75

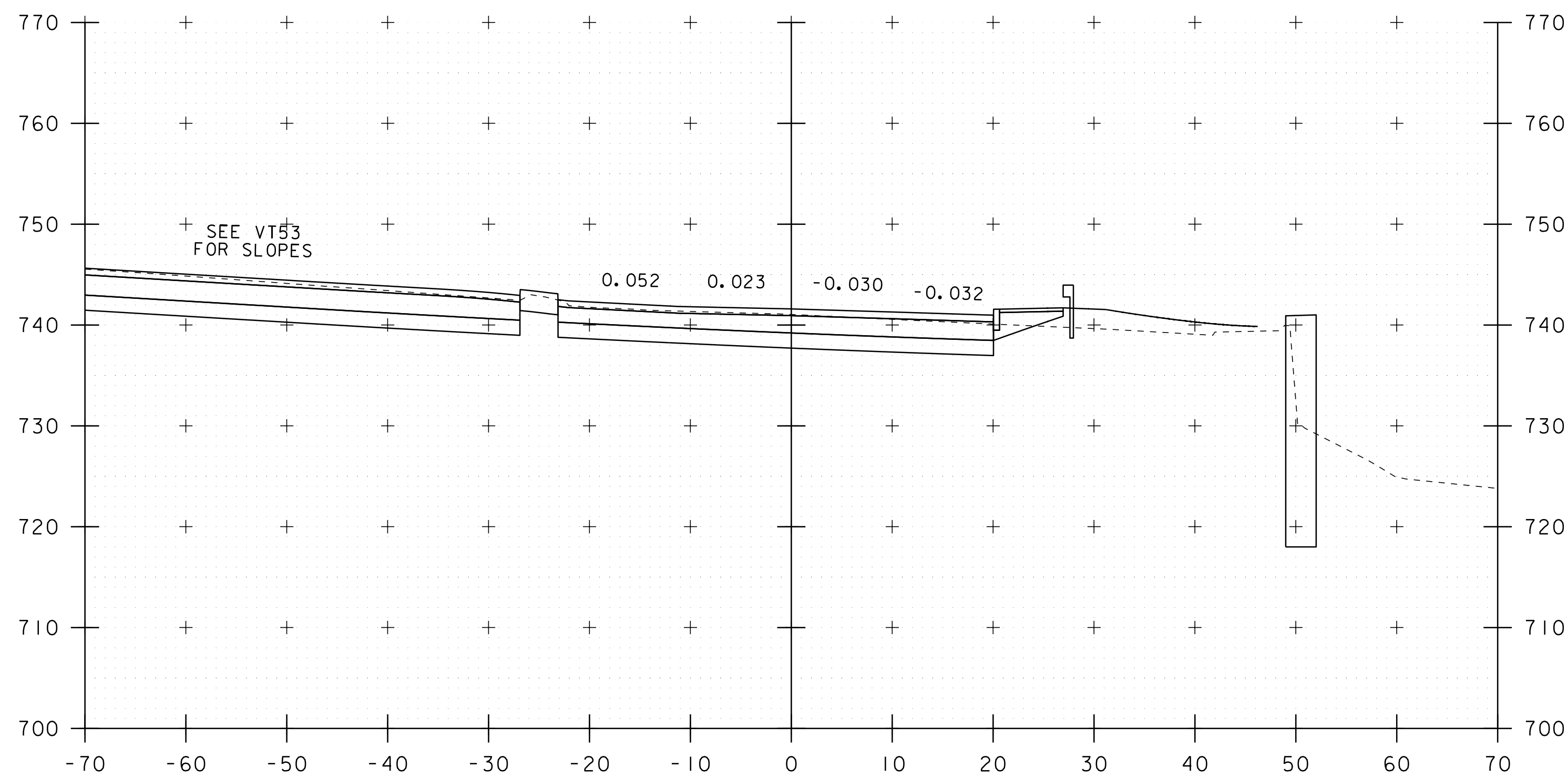
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MAPLE ST CROSS SECTIONS 2	SHEET 36 OF 47



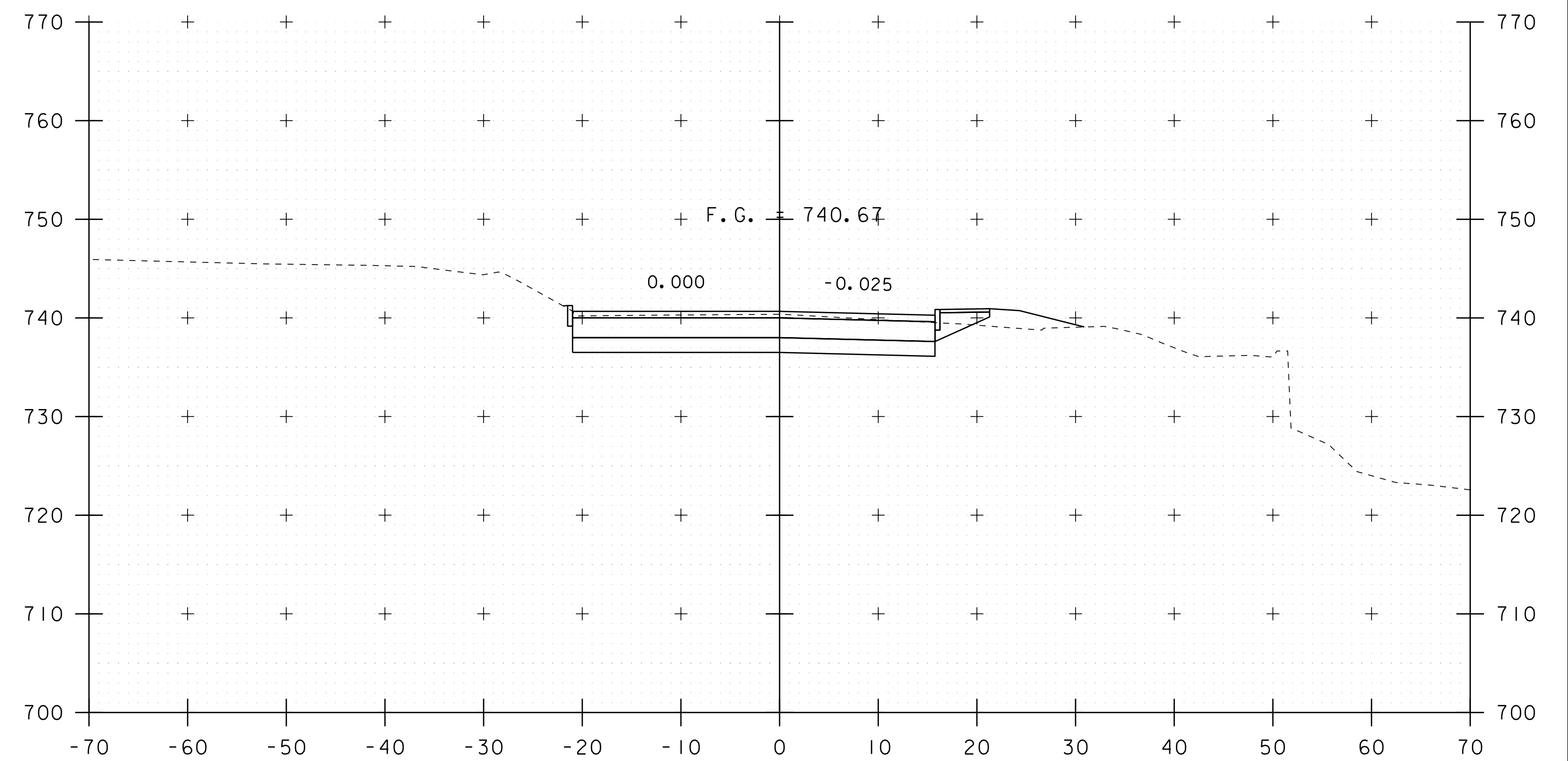
60+34



60+75



60+25

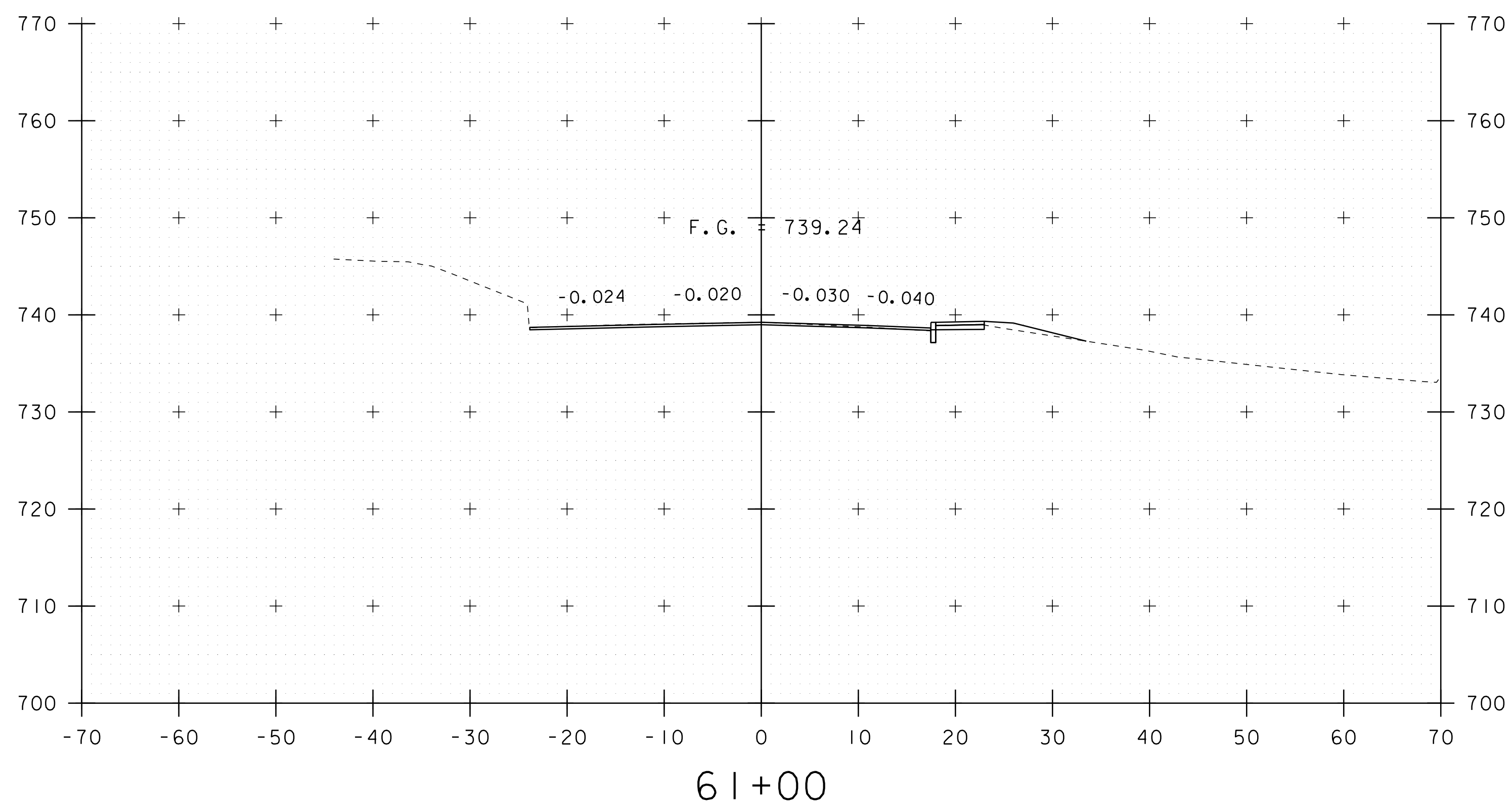
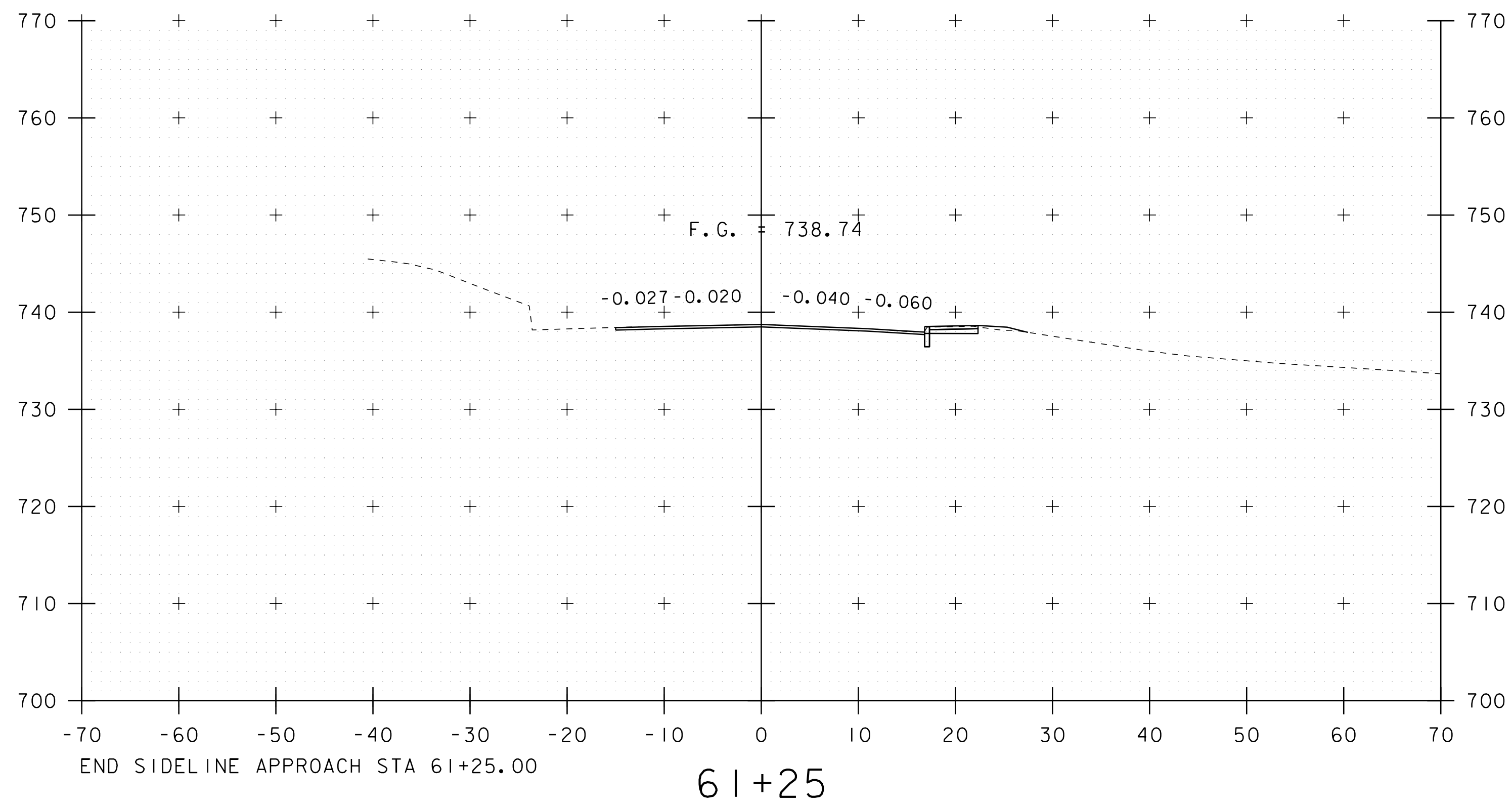


60+50

END SIDELINE STA 60+25.00

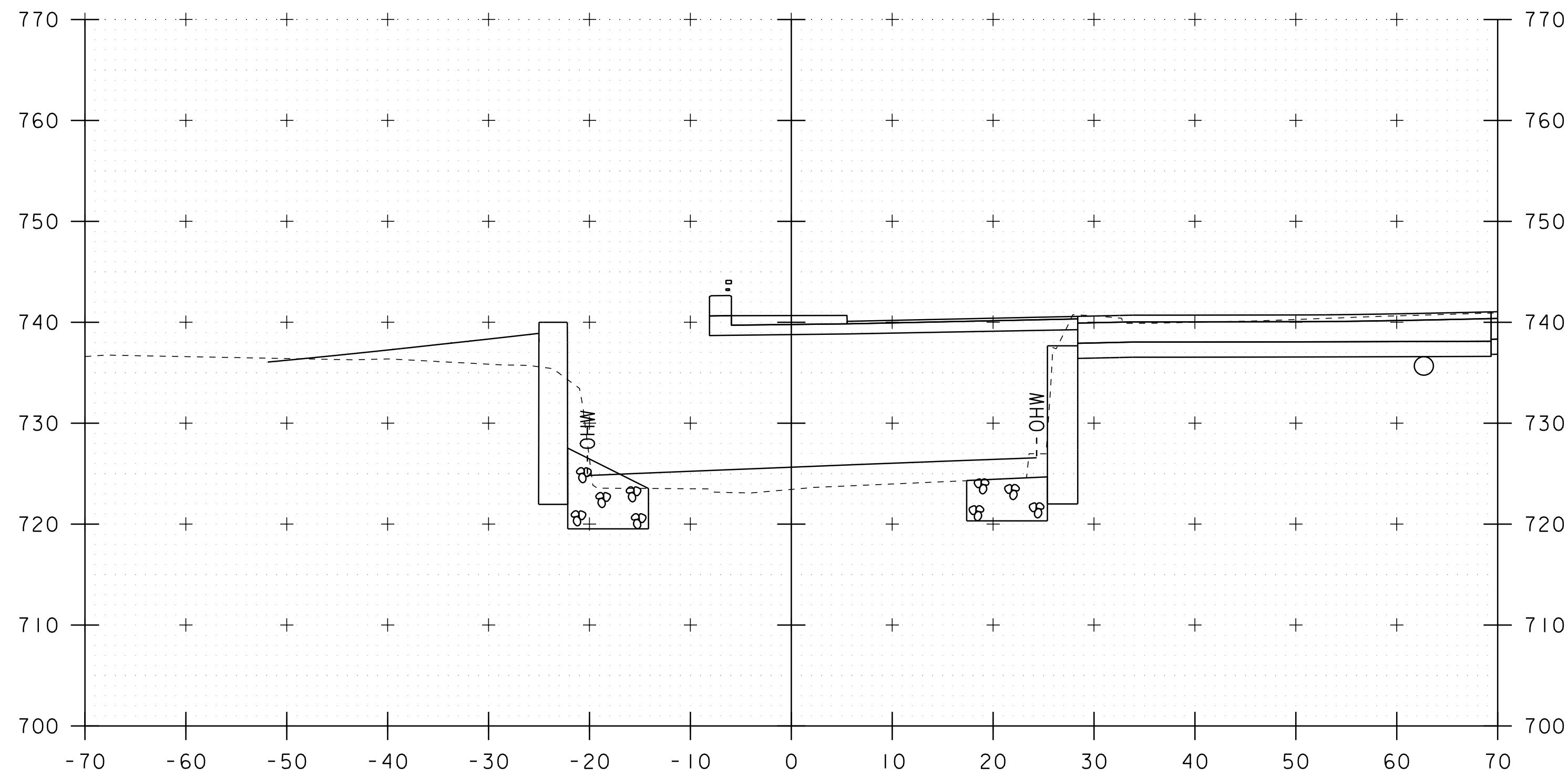
STA. 60+25 TO STA. 60+75

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
WATER ST CROSS SECTIONS I	SHEET 37 OF 47

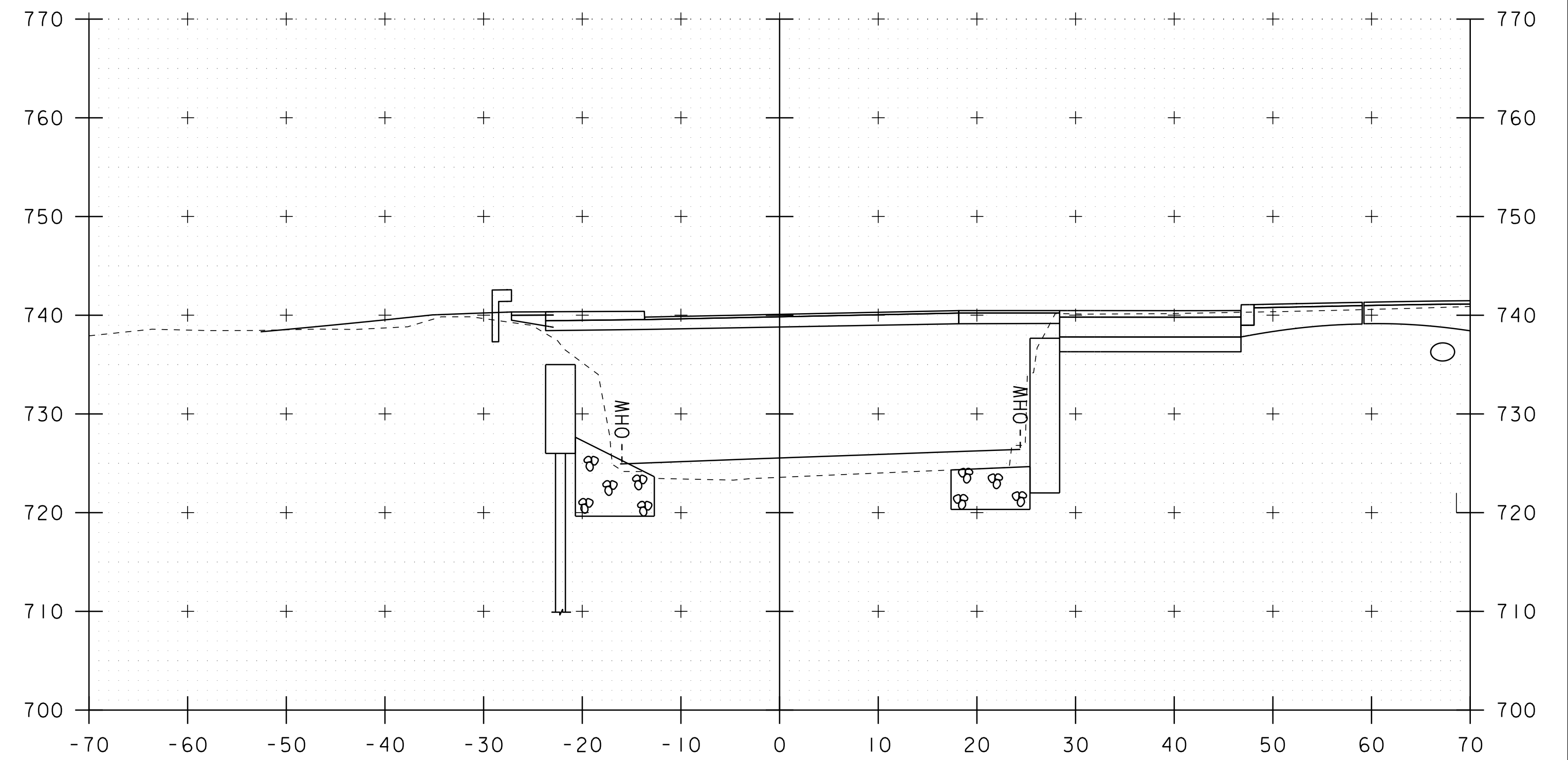


STA. 61+00 TO STA. 61+25

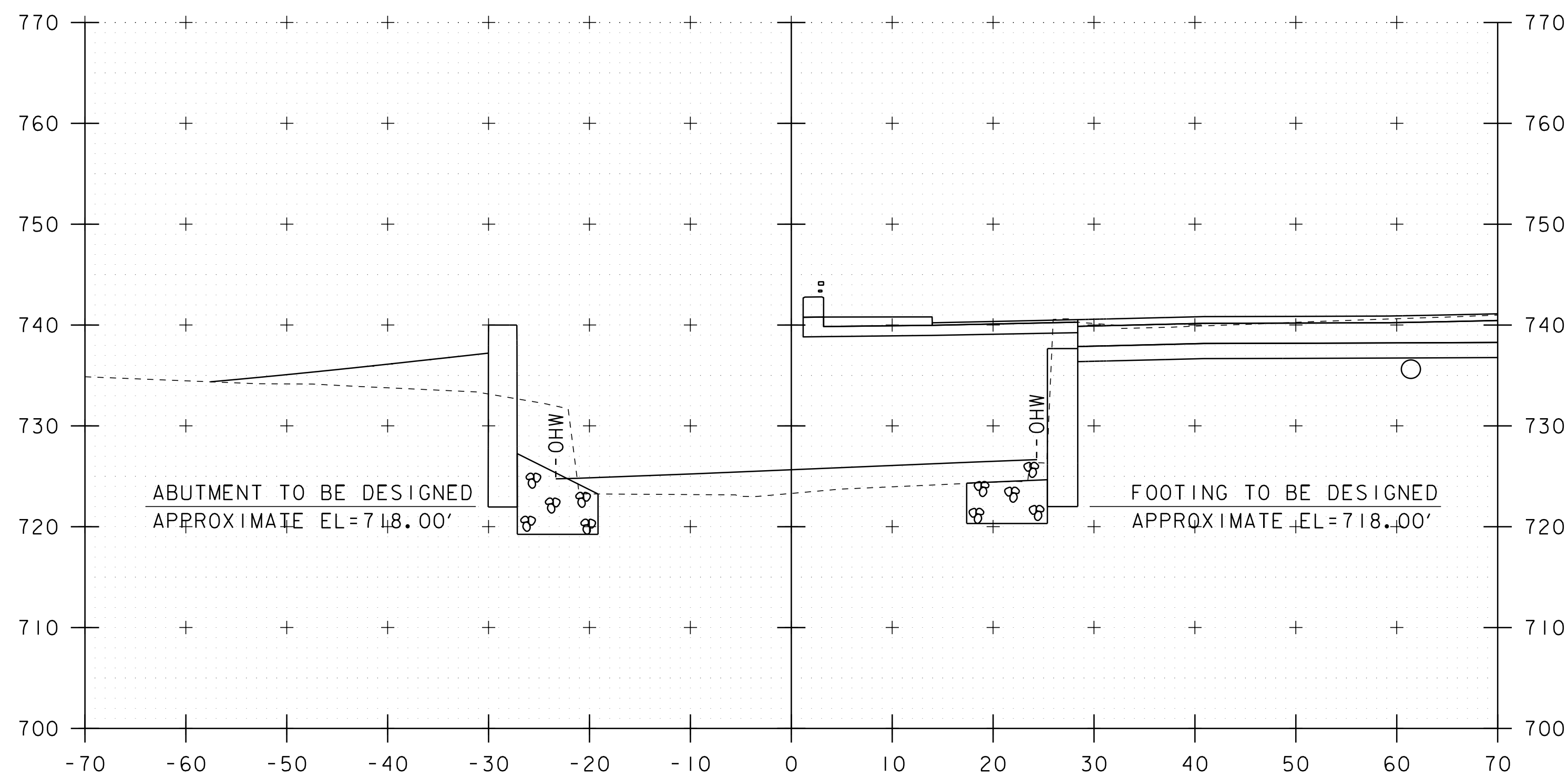
PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
WATER ST CROSS SECTIONS I	SHEET 38 OF 47



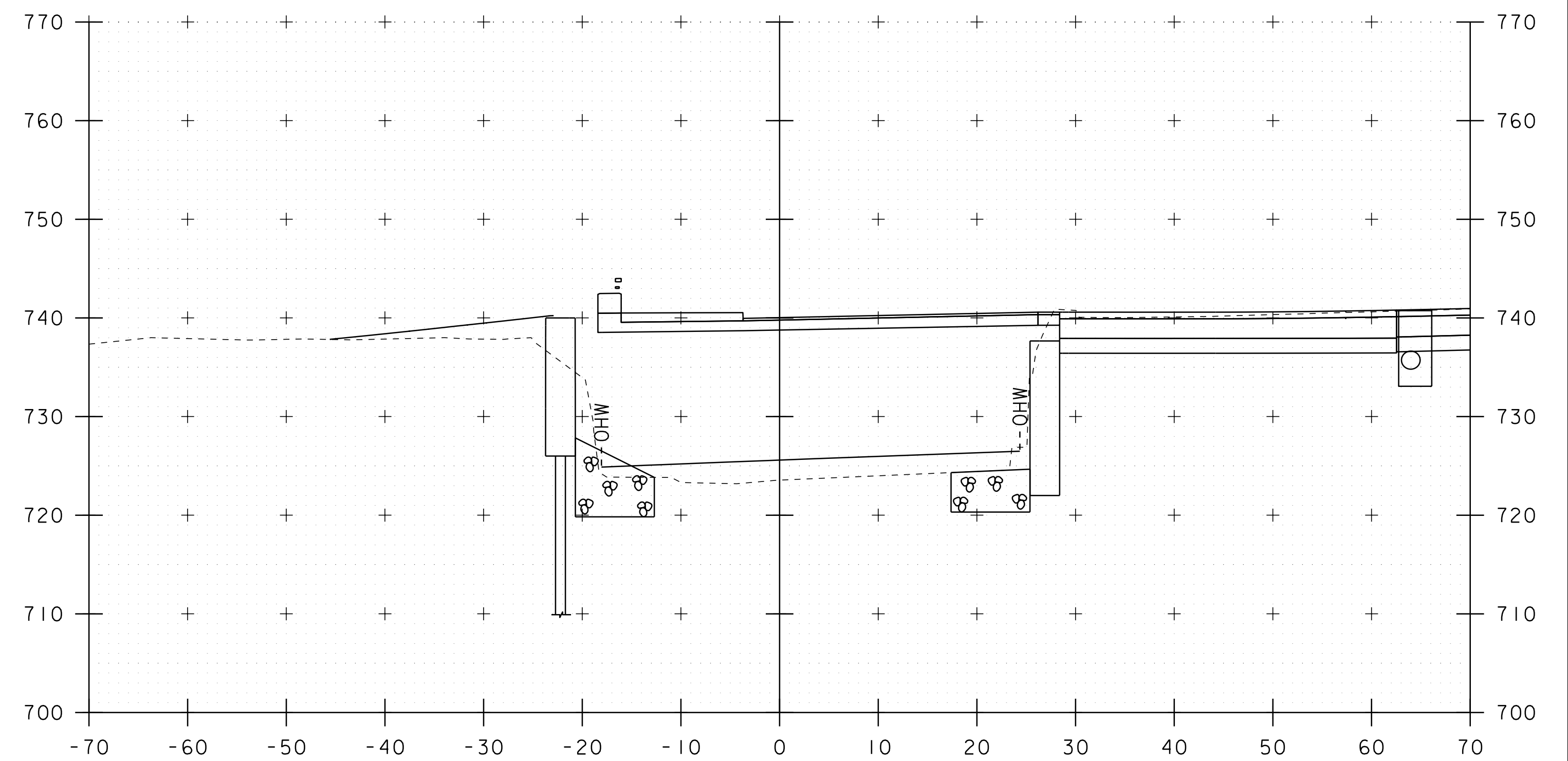
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50+90



50+75

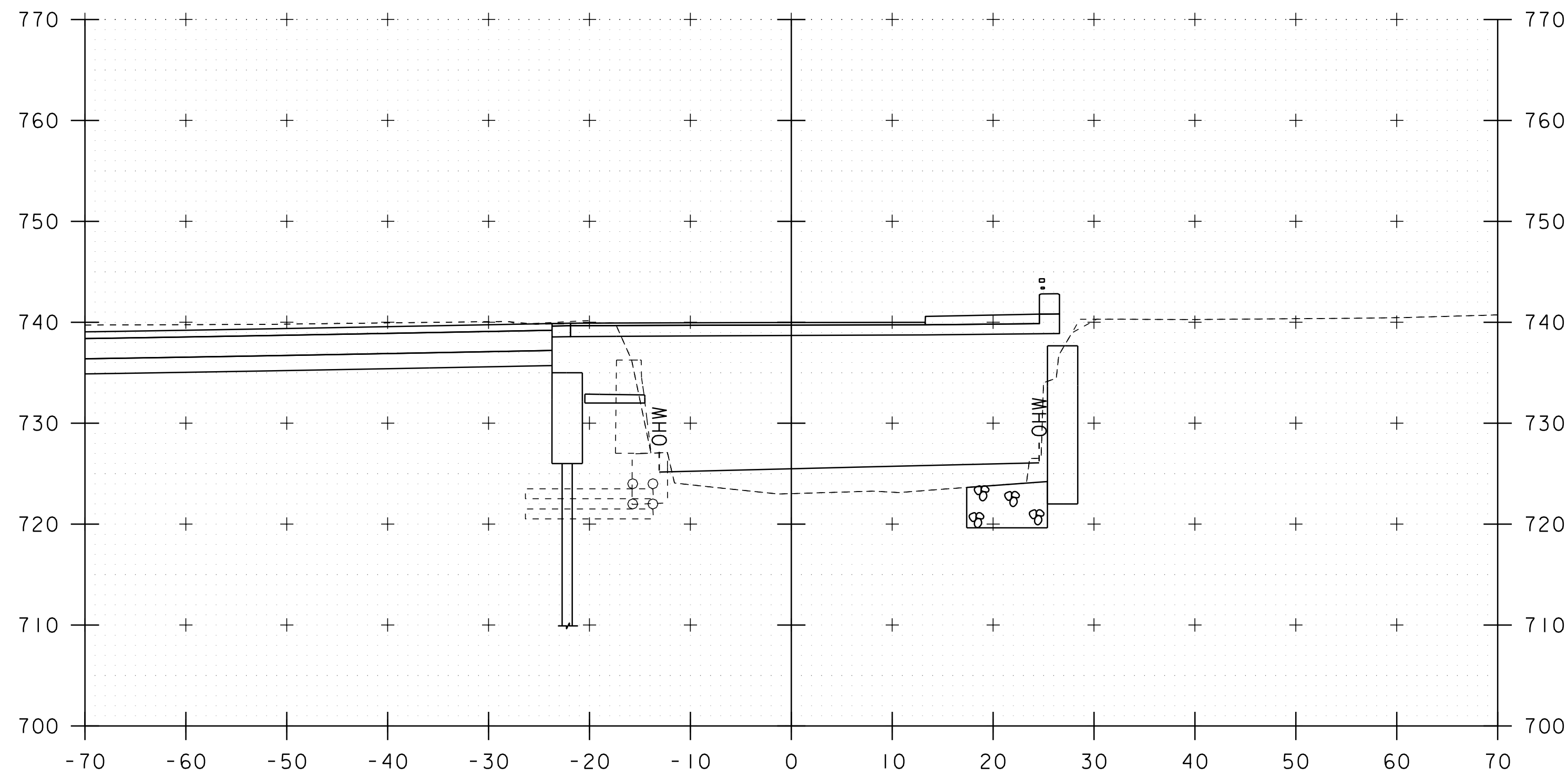


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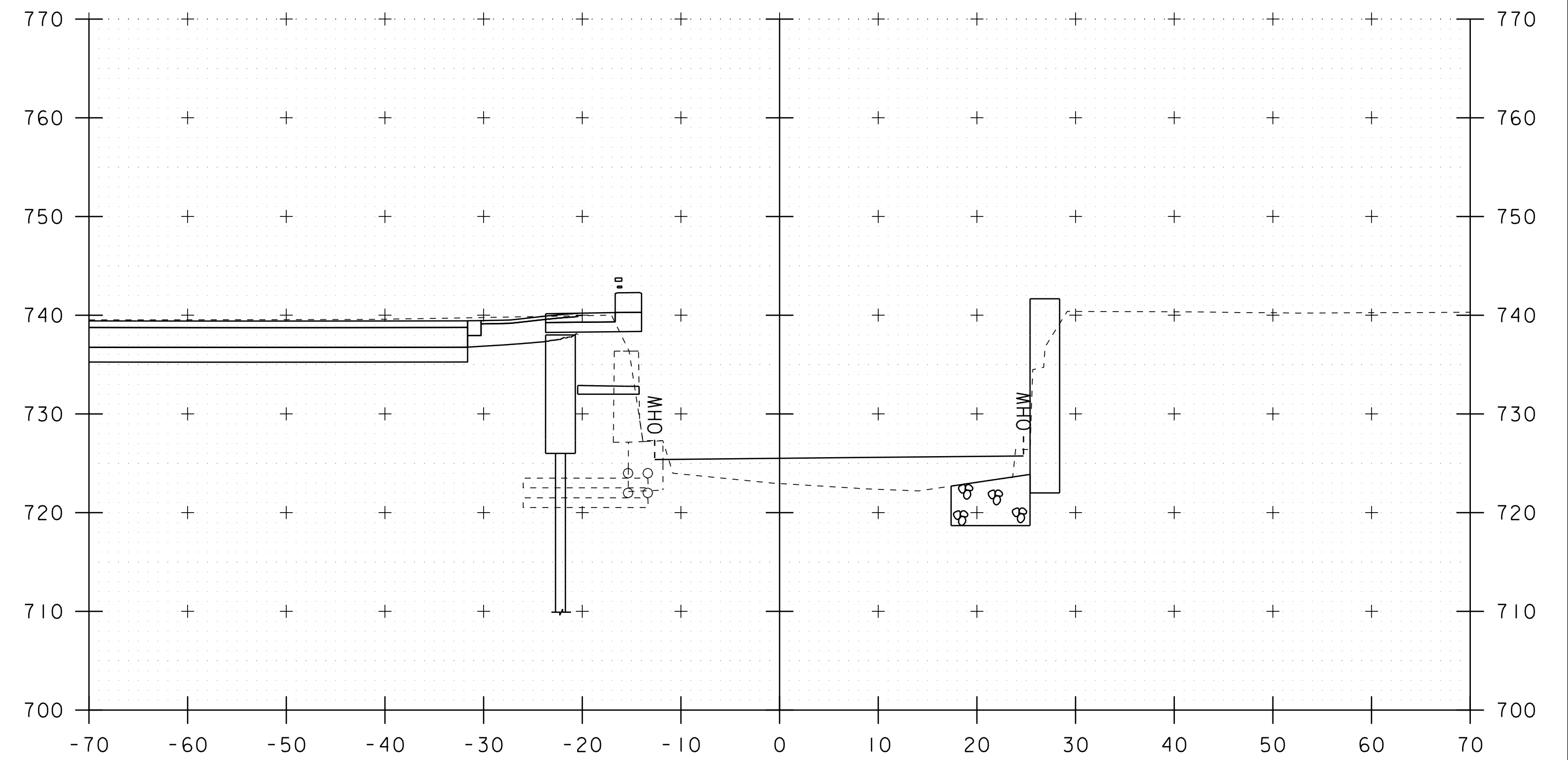
STA. 50+75 TO STA. 50+90

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084xs.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 1	SHEET 39 OF 47

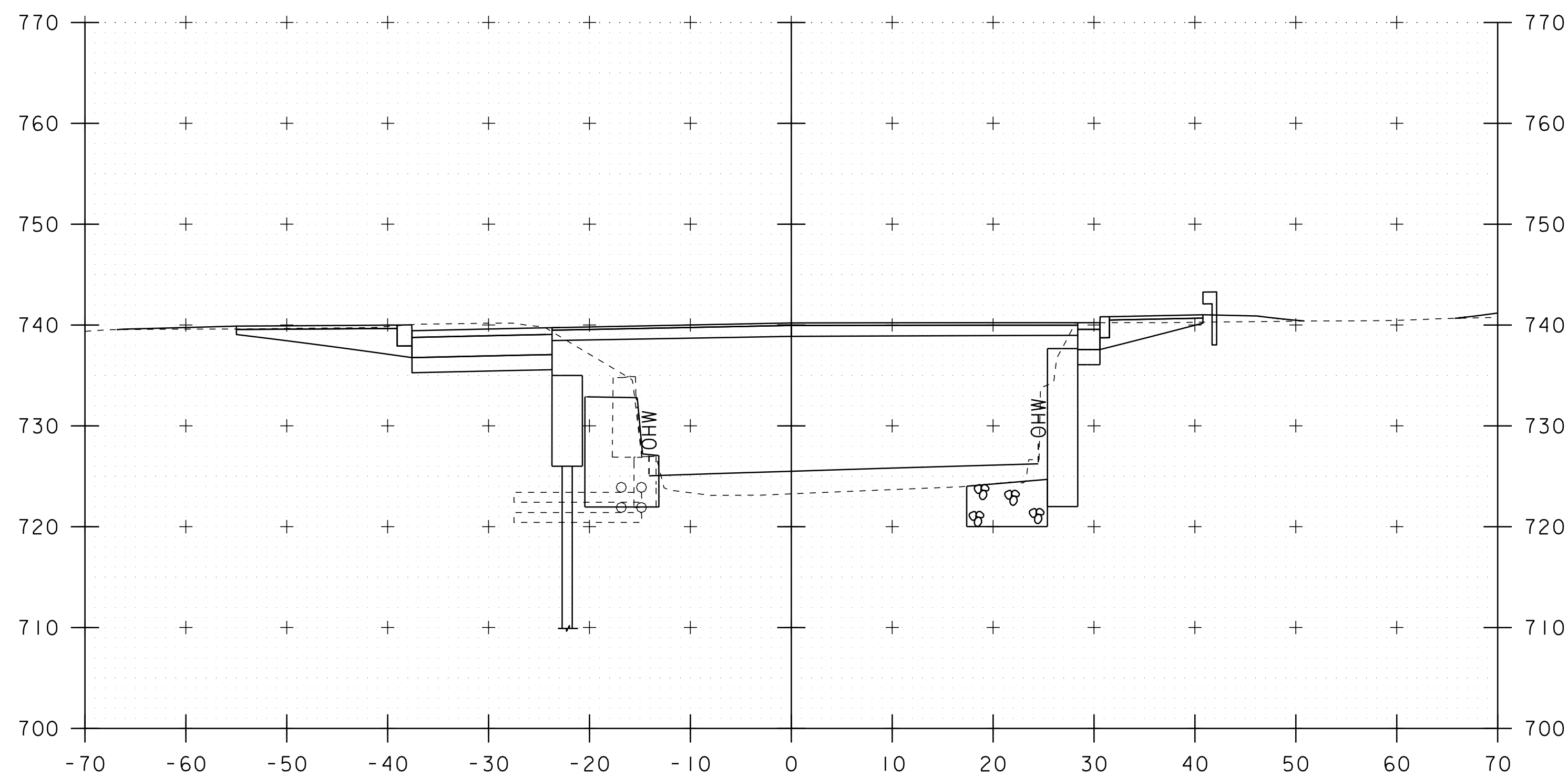




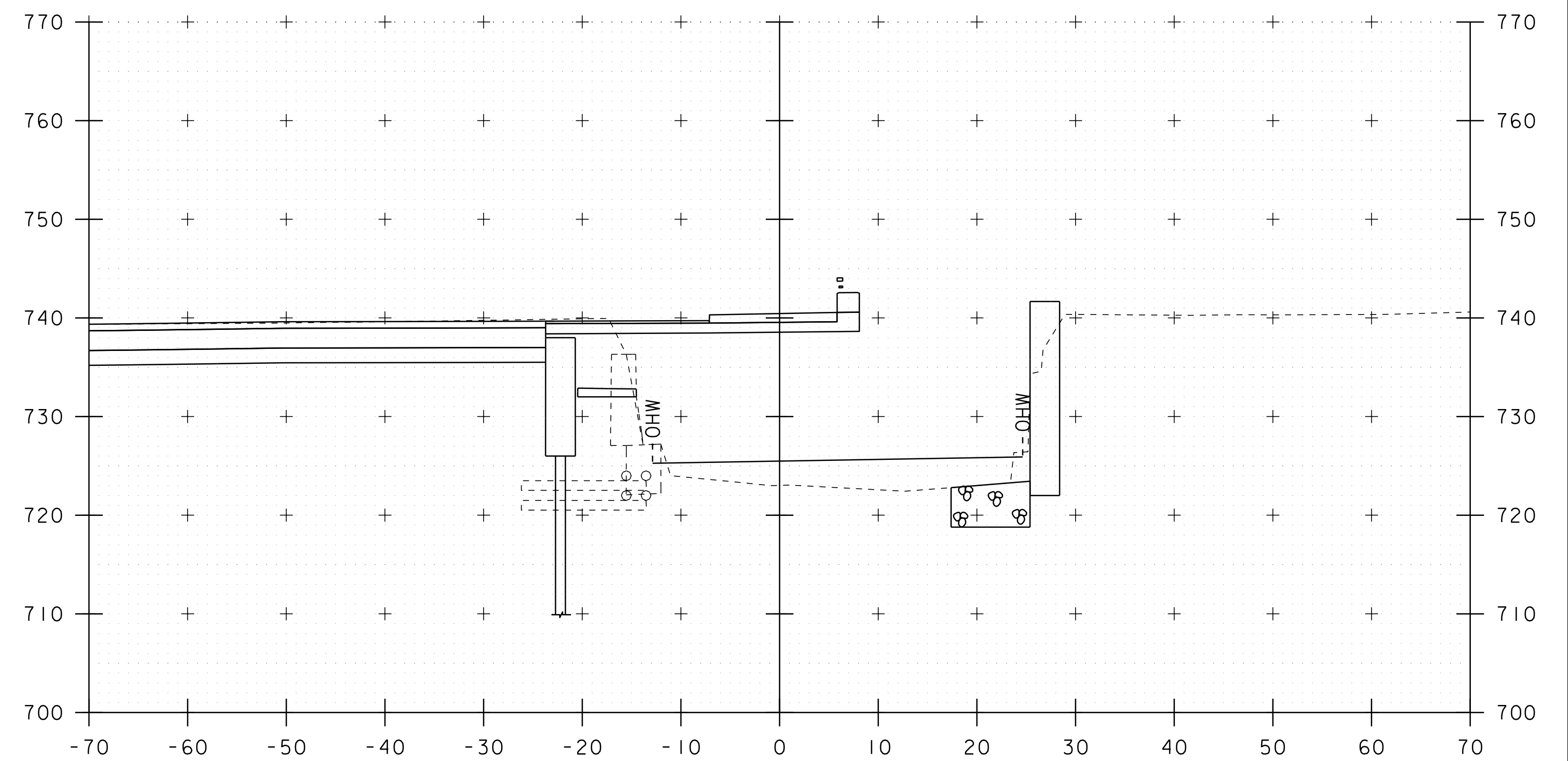
51+10



51+30



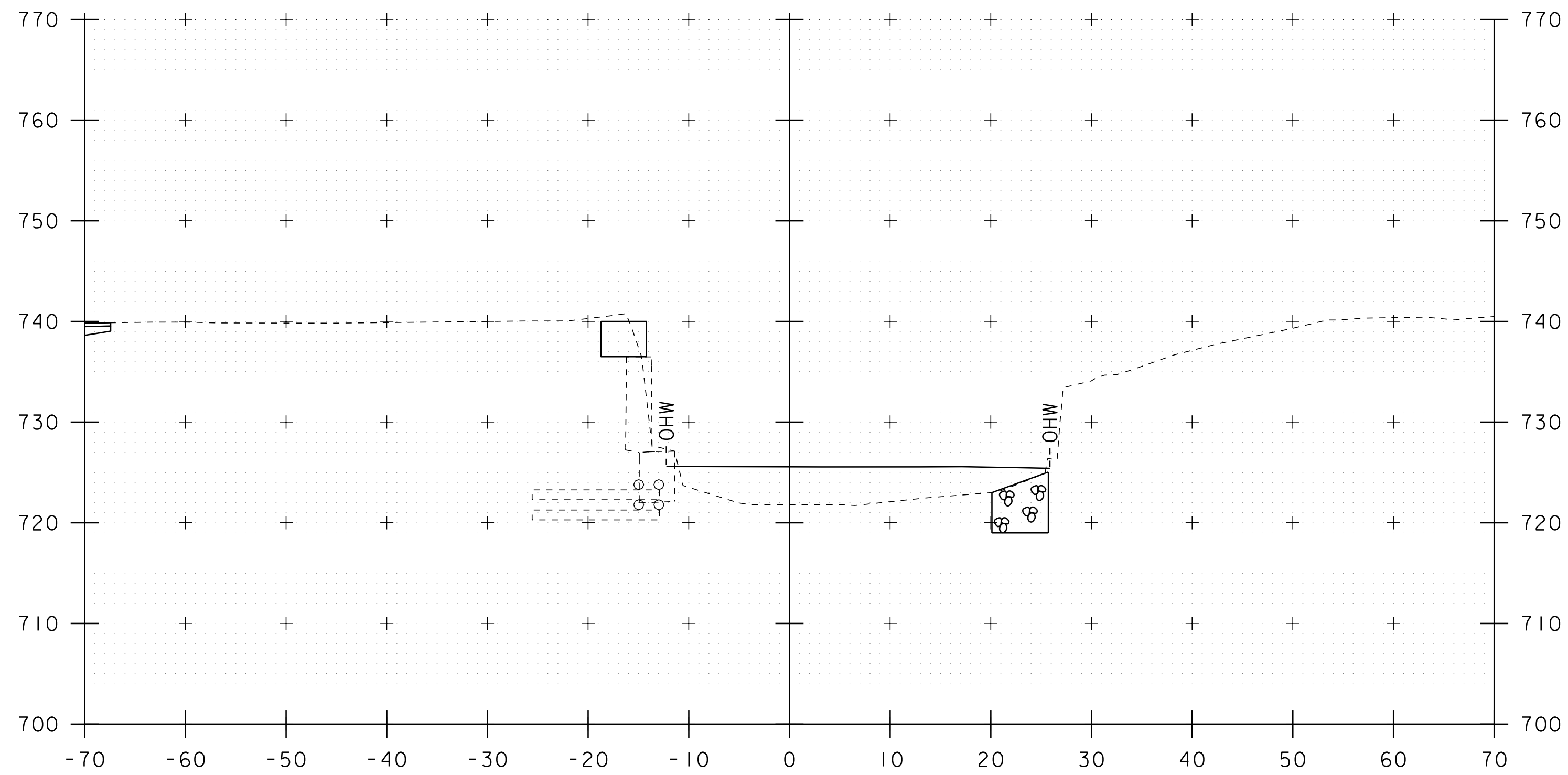
51+00



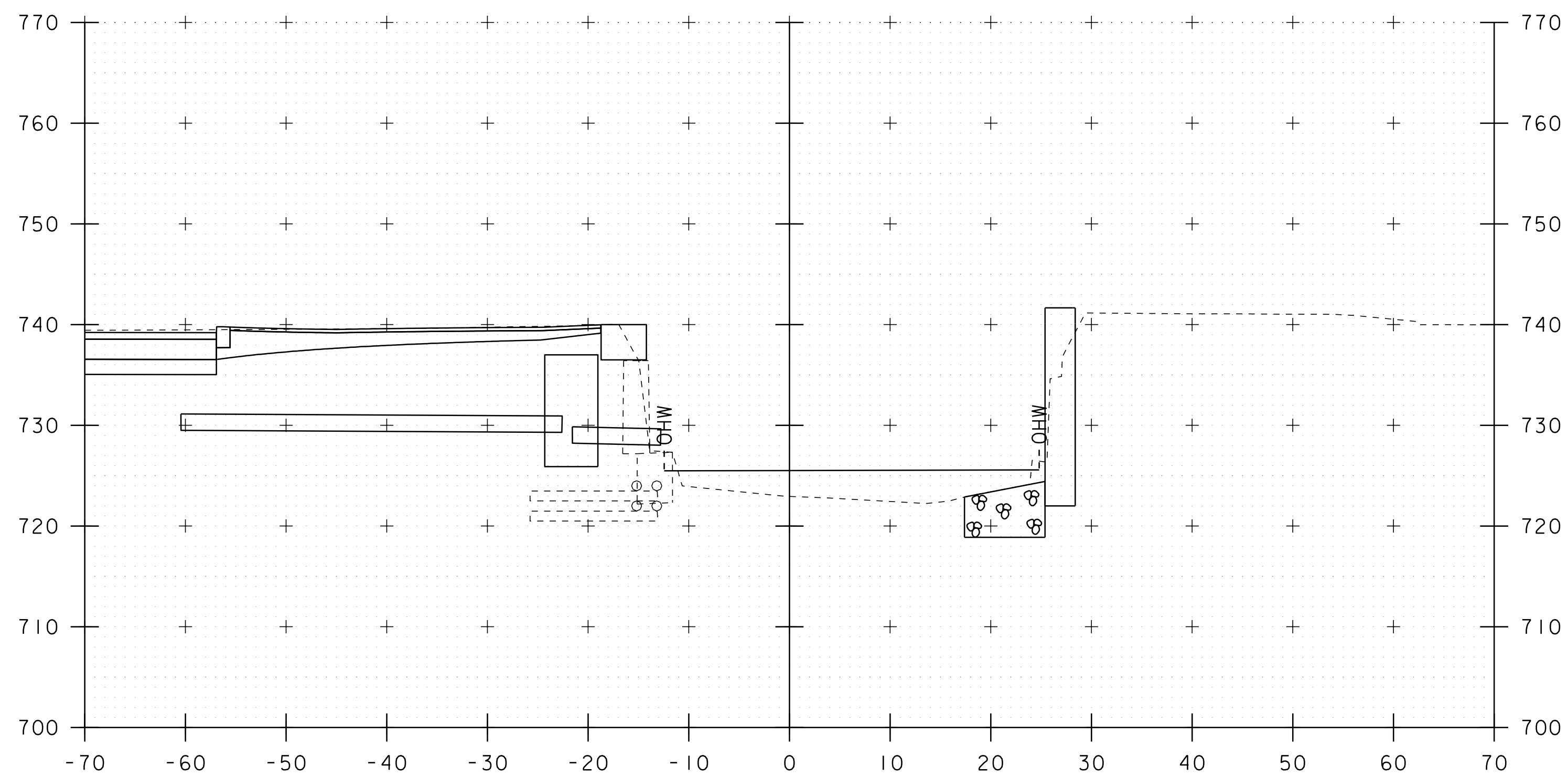
51+20

STA. 51+00 TO STA. 51+30

PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	M. LONGSTREET
FILE NAME:	sl3j084xs.dgn	DESIGNED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS 2		SHEET	40 OF 47



51+50



51+40

STA. 51+40 TO STA. 51+50

PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	M. LONGSTREET
FILE NAME:	sl3j084xs.dgn	DESIGNED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	CHECKED BY:	D. PETERSON
CHANNEL CROSS SECTIONS 3		SHEET	41 OF 47



# EPSC PLAN NARRATIVE

## 1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE COMPLETE REPLACEMENT BRIDGE AND ABUTMENTS AS WELL AS BRIDGE AND INTERSECTION REALIGNMENT. THE BRIDGE SPANS 53 FEET OVER THE BARTON RIVER. THE BRIDGE WILL SIT PARTIALLY ON THE EXISTING STONE ABUTMENT. THE PROJECT ALSO INCLUDES REDESIGN OF THE MEMORIAL SQUARE INTERSECTION AND PARKING SPACES. BRIDGE NUMBER 10 IS LOCATED ON VERMONT ROUTE 58, IN THE TOWN OF BARTON, ORLEANS VILLAGE.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA,

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.19 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

## 1.2 SITE INVENTORY

### 1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS RELATIVELY FLAT URBAN VILLAGE. VT ROUT 58, WATER STREET, MAPLE STREET, INTERSECTION AS WELL AS MEMORIAL SQUARE GREEN STRIP WITH A MONUMENT. THERE ARE GREEN LAWNS AND SIDEWALK ON THE NORTH SIDE OF THE BRIDGE WITH THE TOWN HALL AND LIBRARY NEAR BY. THE SOUTH SIDE OF THE BRIDGE IS NEAR EXISTING STORE FRONT CITY BUILDINGS. THERE ARE MISCELLANEOUS BUSHES, BRUSH AND TREES IN THE PROJECT AREA.

### 1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE BARTON RIVER IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE RIVER IS CLASSIFIED AS GRADUAL, RELATIVELY STRAIGHT SINUOSITY, NARROW, WITH A CONFINED AND ARMORED CHANNEL AT THE SITE. THE STREAM BED CONSIST OF GRAVEL, COBBLES, AND BOULDERS. THERE ARE SEVERAL DROP INLETS ON THE SITE DRAINING FROM THE ROADWAY TO THE RIVER.

### 1.2.3 VEGETATION

VEGETATION IN THE PROJECT AREA CONSIST OF MOSTLY LOW GROWTH BRUCH AND WEEDS IN THE RIVER BANK AREAS, AS WELL A MAINTAINED GRASSED LAWN AREAS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY REPLACEMENT OF THE EXISTING BRIDGE. UPON PROJECT COMPLETION, DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

### 1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDSOR, VERMONT. SOILS ON THE PROJECT SITE ARE LAND-ADAMS-NICHOLVILLE COMPLEX AND VERSHIRE-LOMBARD COMPLEX, ROCKY. THE SOIL K-FACTORS ARE LABELED ON THE EXISTING CONDITIONS EPSC SHEETS. THE SOIL IS CONSIDERED NOT HIGHLY ERODIBLE.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.0-0.23 = LOW EROSION POTENTIAL

0.24-0.36 = MODERATE EROSION POTENTIAL

0.37 AND HIGHER = HIGH EROSION POTENTIAL

### 1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO

HISTORICAL OR ARCHEOLOGICAL AREAS: YES

PRIME AGRICULTURAL LAND: NO

THREATENED AND ENDANGERED SPECIES: YES, NORTHERN LONG-EARED BAT

WATER RESOURCE: BARTON RIVER

WETLANDS: NO

BRIDGE 10 IS CONSIDERED OF HISTORIC SIGNIFICANT FOR ITS RAILING AS WELL AS GRANITE BLOCK ABUTMENTS. THE BRIDGE IS IN THE ORLEANS VILLAGE HISTORIC DISTRICT. THE PARK AREA BETWEEN WATER STREET AND MAPLE STREET CONTAINS A MONUMENT WHICH CONTRIBUTES TO THE HISTORIC DISTRICT.

## 1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

## 1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

### 1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED. THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

### 1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS, WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

### 1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

ROADWAY WILL BE SWEEPED IN THE EVENT THAT TRACKING IS EVIDENT.

USE NOT EXPECTED ON THIS PROJECT.

### 1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP-SLOPE WORK.

BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

FILTER CURTAIN WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

### 1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

### 1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

### 1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

PERMANENT STORMWATER TREATMENT IS NOT ANTICIPATED ON THIS PROJECT.

### 1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

USE NOT EXPECTED ON THIS PROJECT.

### 1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE. (NOT EXPECTED TO BE USED ON THIS PROJECT)

### 1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH. USE ITEM 653.20, TEMPORARY EROSION MATTING.

THERE ARE NO ANTICIPATED LOCATIONS OF TEMPORARY EROSION MATTING BUT A SMALL QUANTITY HAS BEEN INCLUDED IN THE PLANS.

### 1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

TREATMENT OF DEWATERING COFFERDAM IS ANTICIPATED. A LOCATION FOR TREATMENT HAS BEEN PROPOSED AND IS SHOWN ON THE PLANS. HOWEVER THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR.

### 1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

## 1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

### 1.5.1 CONSTRUCTION SEQUENCE

### 1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

### 1.5.3 UPDATES

PROJECT NAME: ORLEANS VILLAGE

PROJECT NUMBER: BF 0310(7)

FILE NAME: s13j084eroDetails.dgn

PLOT DATE: 05-MAR-2018

PROJECT LEADER: C. CARLSON

DRAWN BY: M. LONGSTREET

DESIGNED BY: D. PETERSON

CHECKED BY: D. PETERSON

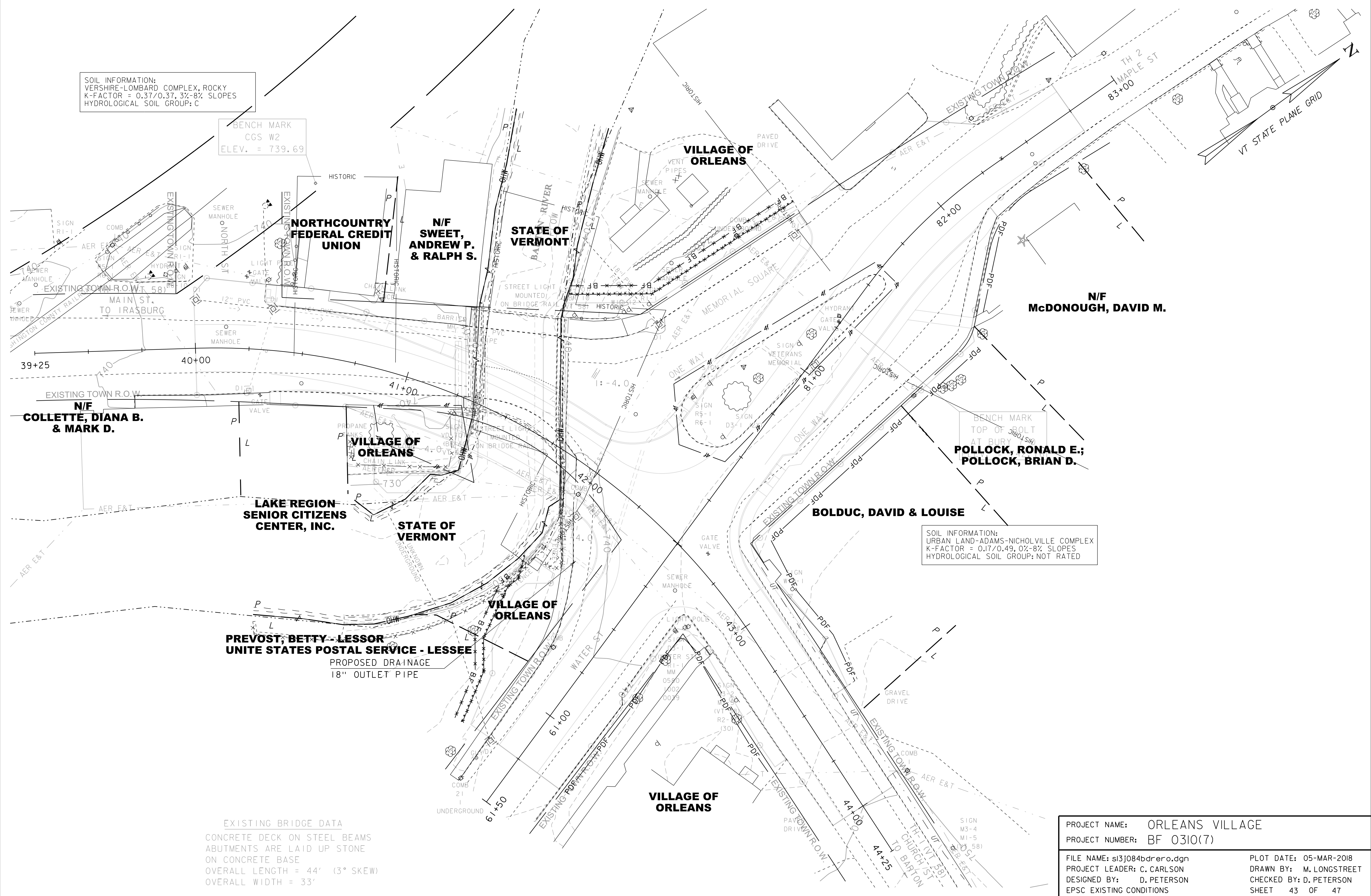
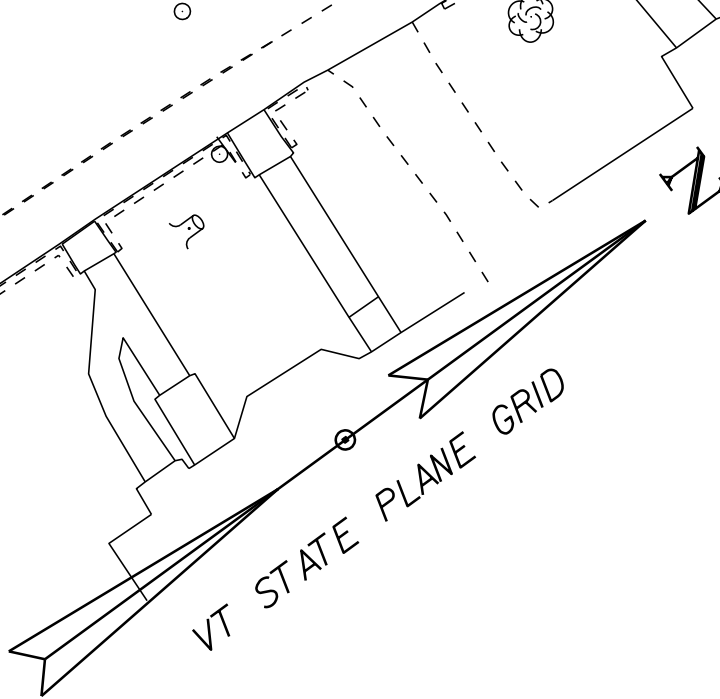
EPSC NARRATIVE

SHEET 42 OF 47



SOIL INFORMATION:  
 VERSHIRE-LOMBARD COMPLEX, ROCKY  
 K-FACTOR = 0.37/0.37, 3%-8% SLOPES  
 HYDROLOGICAL SOIL GROUP: C

BENCH MARK  
 CGS W2  
 ELEV. = 739.69



**NORTHCOUNTRY  
 FEDERAL CREDIT  
 UNION**

**N/F  
 SWEET,  
 ANDREW P.  
 & RALPH S.**

**STATE OF  
 VERMONT**

**VILLAGE OF  
 ORLEANS**

**N/F  
 McDONOUGH, DAVID M.**

**N/F  
 COLLETTE, DIANA B.  
 & MARK D.**

**VILLAGE OF  
 ORLEANS**

**POLLOCK, RONALD E.;  
 POLLOCK, BRIAN D.**

**LAKE REGION  
 SENIOR CITIZENS  
 CENTER, INC.**

**STATE OF  
 VERMONT**

**BOLDUC, DAVID & LOUISE**

SOIL INFORMATION:  
 URBAN LAND-ADAMS-NICHOLVILLE COMPLEX  
 K-FACTOR = 0.17/0.49, 0%-8% SLOPES  
 HYDROLOGICAL SOIL GROUP: NOT RATED

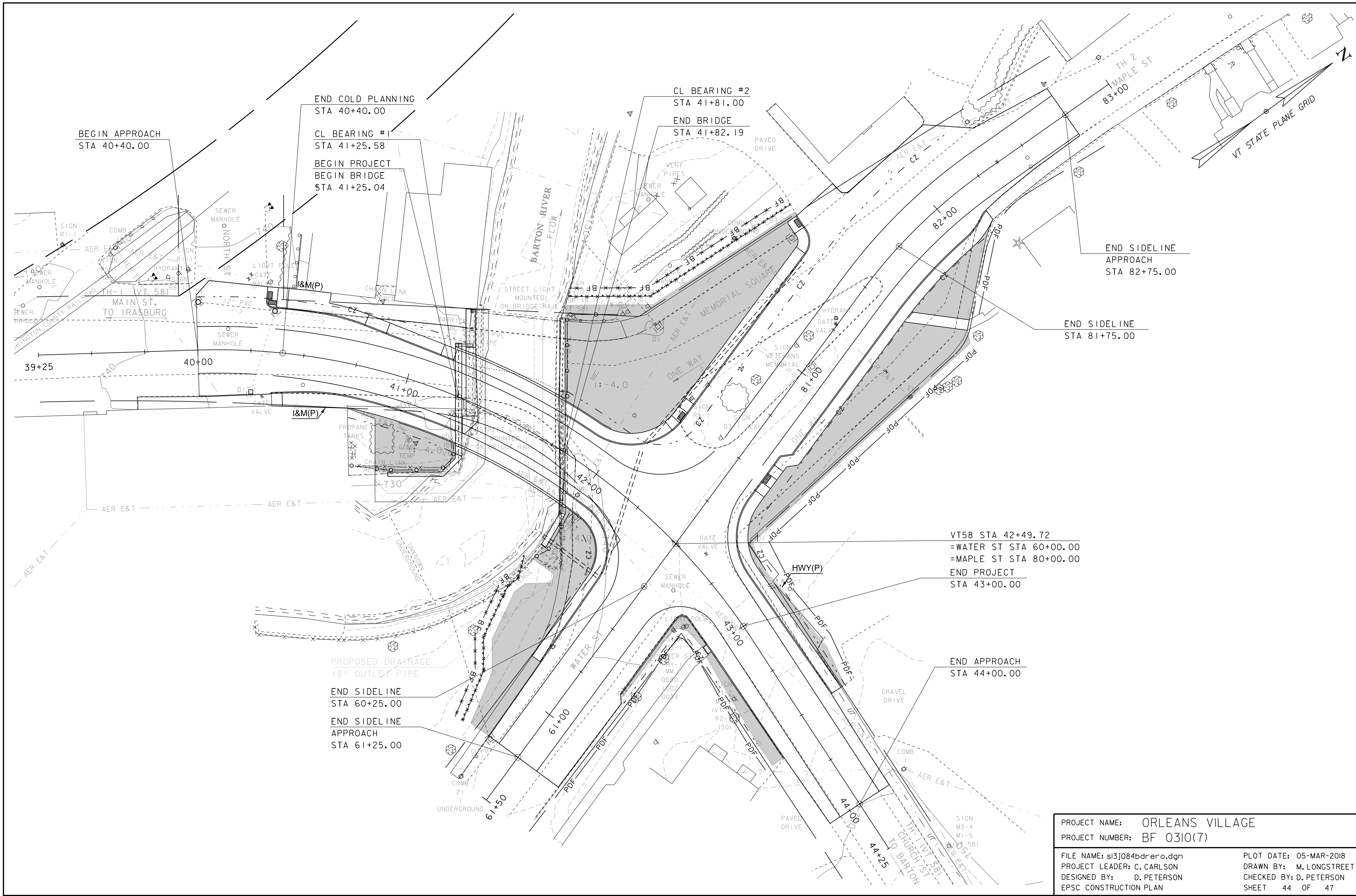
**PREVOST, BETTY - LESSOR  
 UNITE STATES POSTAL SERVICE - LESSEE**  
 PROPOSED DRAINAGE  
 18" OUTLET PIPE

**VILLAGE OF  
 ORLEANS**

**VILLAGE OF  
 ORLEANS**

EXISTING BRIDGE DATA  
 CONCRETE DECK ON STEEL BEAMS  
 ABUTMENTS ARE LAID UP STONE  
 ON CONCRETE BASE  
 OVERALL LENGTH = 44' (3° SKEW)  
 OVERALL WIDTH = 33'

PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s13j084bdrer.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	SHEET	43 OF 47
DESIGNED BY:	D. PETERSON		
EPSC EXISTING CONDITIONS			



BEGIN APPROACH  
STA 40+40.00

END COLD PLANNING  
STA 40+40.00

CL BEARING #1  
STA 41+25.58

BEGIN PROJECT  
BEGIN BRIDGE  
STA 41+25.04

CL BEARING #2  
STA 41+81.00

END BRIDGE  
STA 41+82.19

TH 2  
MAPLE ST  
83+00

END SIDELINE  
APPROACH  
STA 82+75.00

END SIDELINE  
STA 81+75.00

VT58 STA 42+49.72  
= WATER ST STA 60+00.00  
= MAPLE ST STA 80+00.00  
END PROJECT  
STA 43+00.00

PROPOSED DRAINAGE  
18" OUTLET PIPE

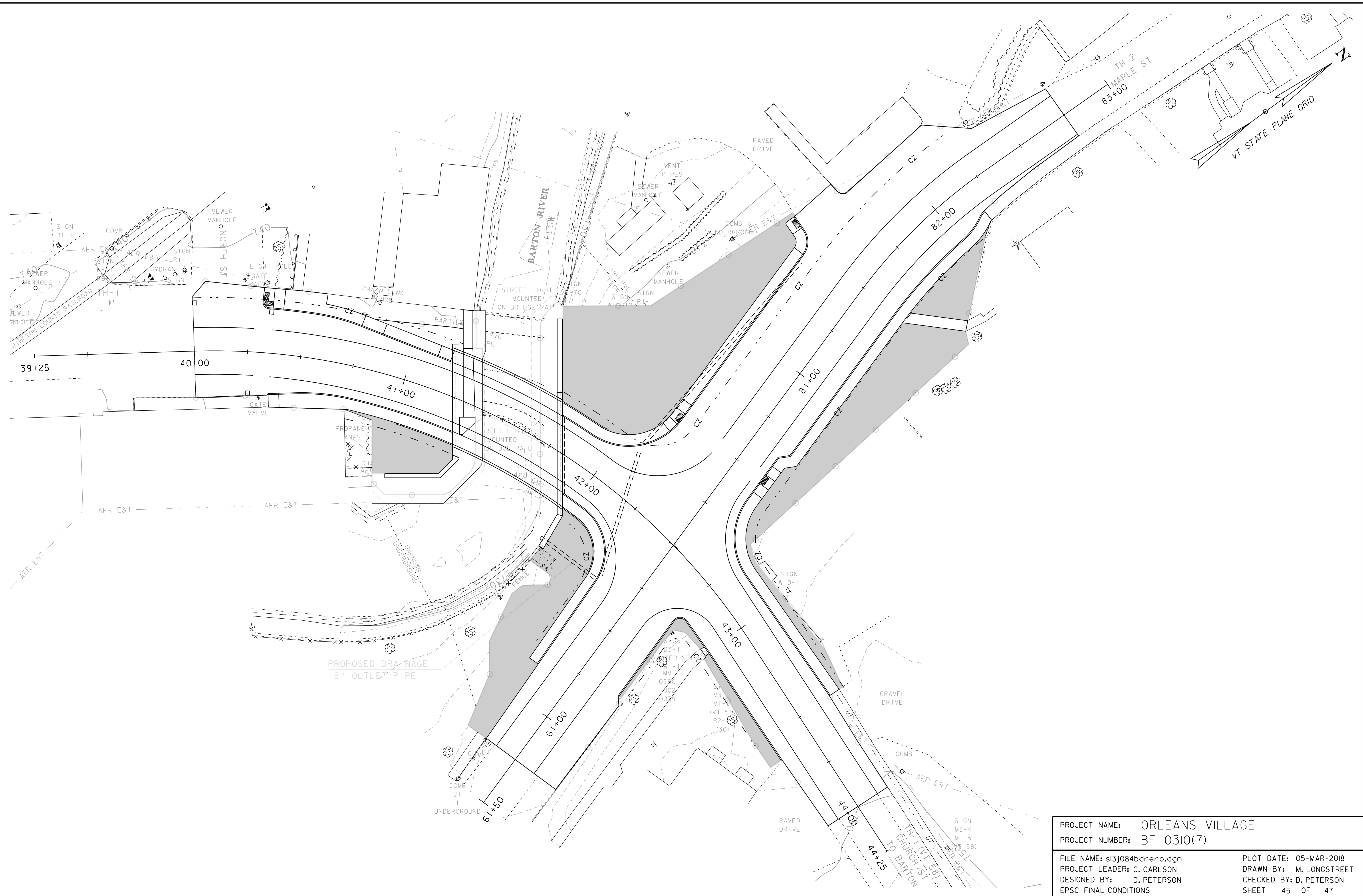
END SIDELINE  
STA 60+25.00

END SIDELINE  
APPROACH  
STA 61+25.00

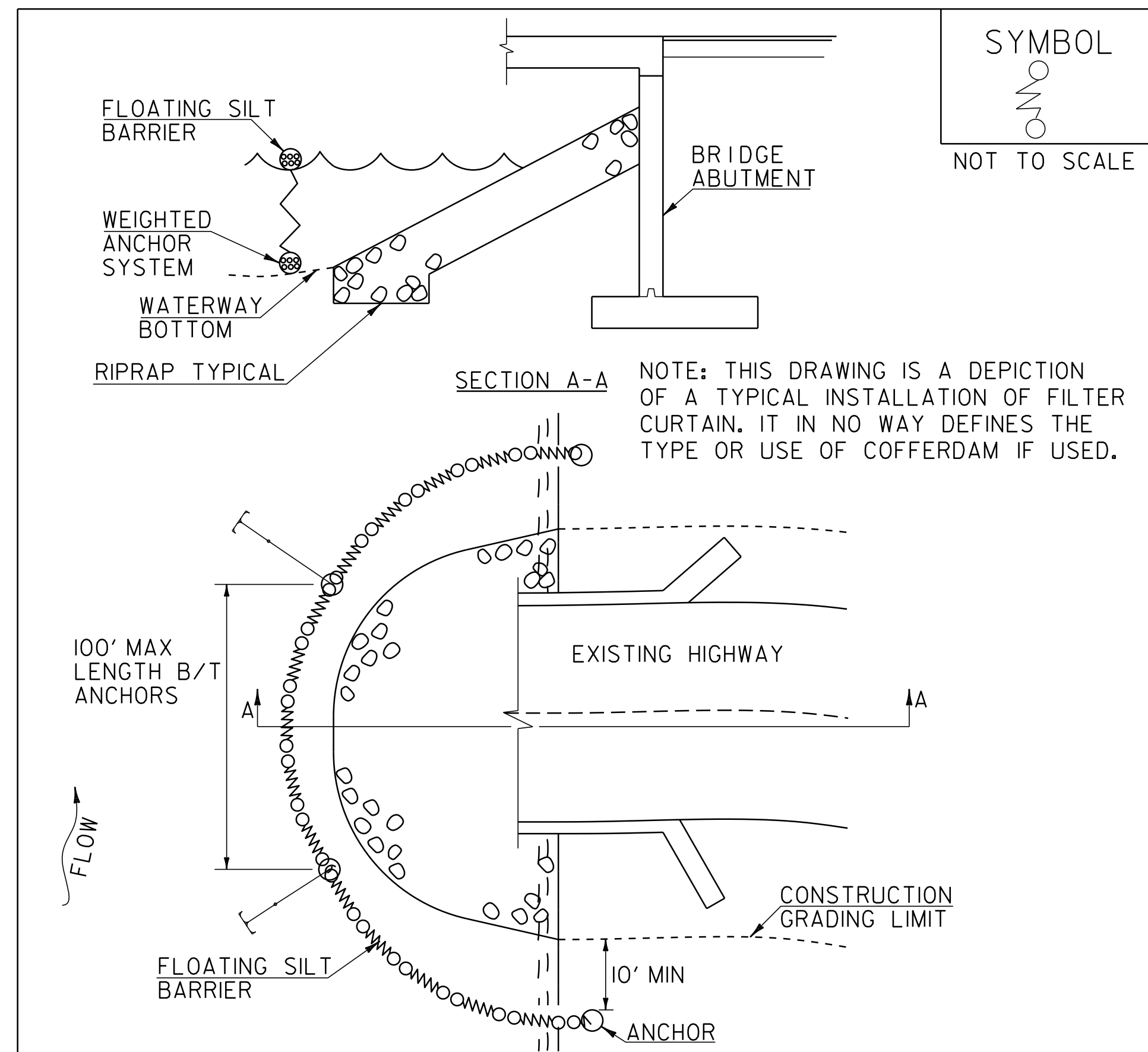
END APPROACH  
STA 44+00.00

PROJECT NAME: ORLEANS VILLAGE	
PROJECT NUMBER: BF 0310(7)	
FILE NAME: s13j084bdrer.dgn	PLOT DATE: 05-MAR-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
EPSC CONSTRUCTION PLAN	SHEET 44 OF 47





PROJECT NAME:	ORLEANS VILLAGE	PLOT DATE:	05-MAR-2018
PROJECT NUMBER:	BF 0310(7)	DRAWN BY:	M. LONGSTREET
FILE NAME:	s13j084bdrer.dgn	DESIGNED BY:	D. PETERSON
PROJECT LEADER:	C. CARLSON	EPSC FINAL CONDITIONS	CHECKED BY: D. PETERSON
			SHEET 45 OF 47



NOTE: THIS DRAWING IS A DEPICTION OF A TYPICAL INSTALLATION OF FILTER CURTAIN. IT IN NO WAY DEFINES THE TYPE OR USE OF COFFERDAM IF USED.

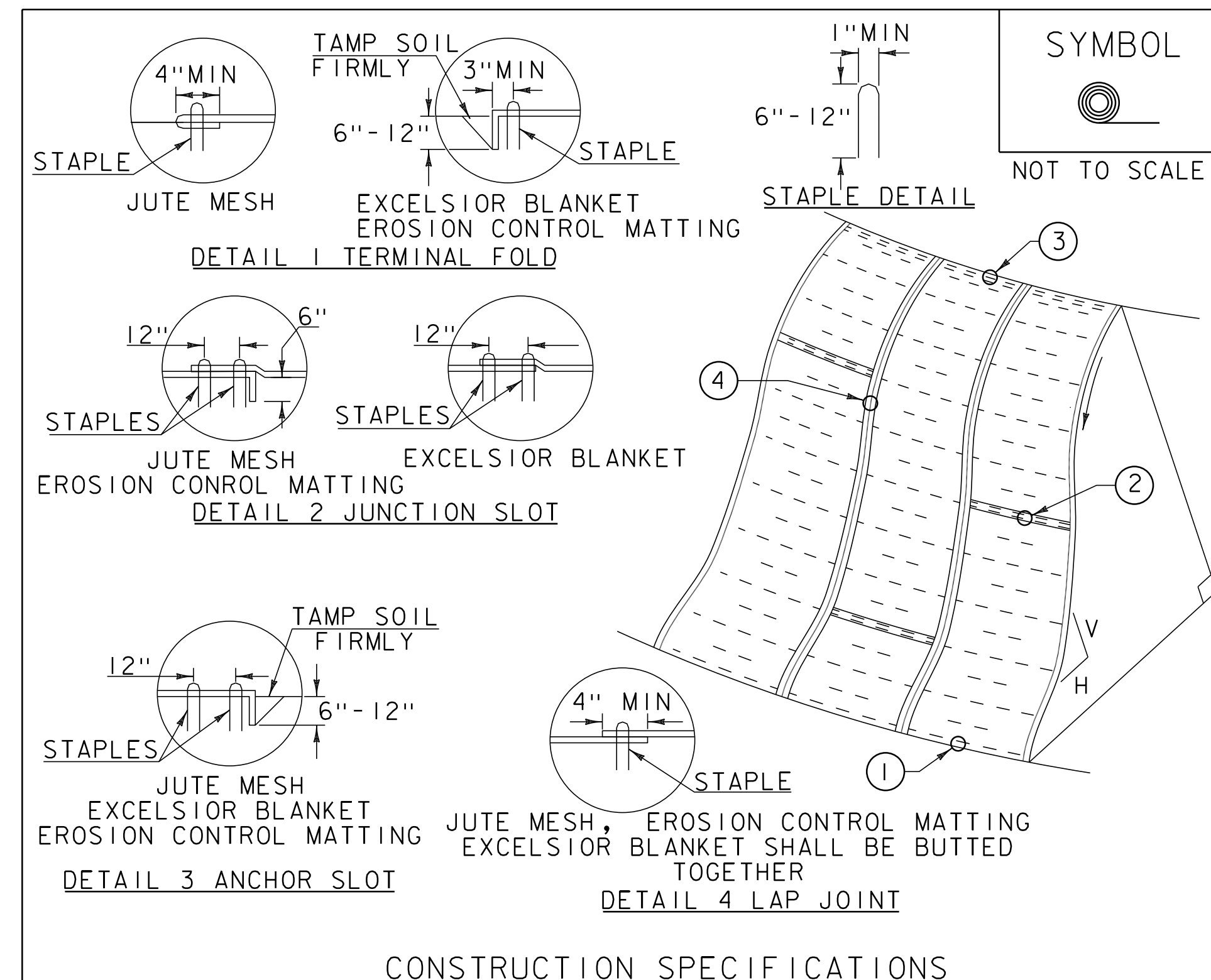
**CONSTRUCTION SPECIFICATIONS**

1. FILTER CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FEET/SECOND.
2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

**FILTER CURTAIN**

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
SEPTEMBER 4, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 FOR GEOTEXTILE FOR FILTER CURTAIN (PAY ITEM 649.6I).



**CONSTRUCTION SPECIFICATIONS**

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE**

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006-" FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.  
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

VAOT LOW GROW / FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

**CONSTRUCTION GUIDANCE**

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

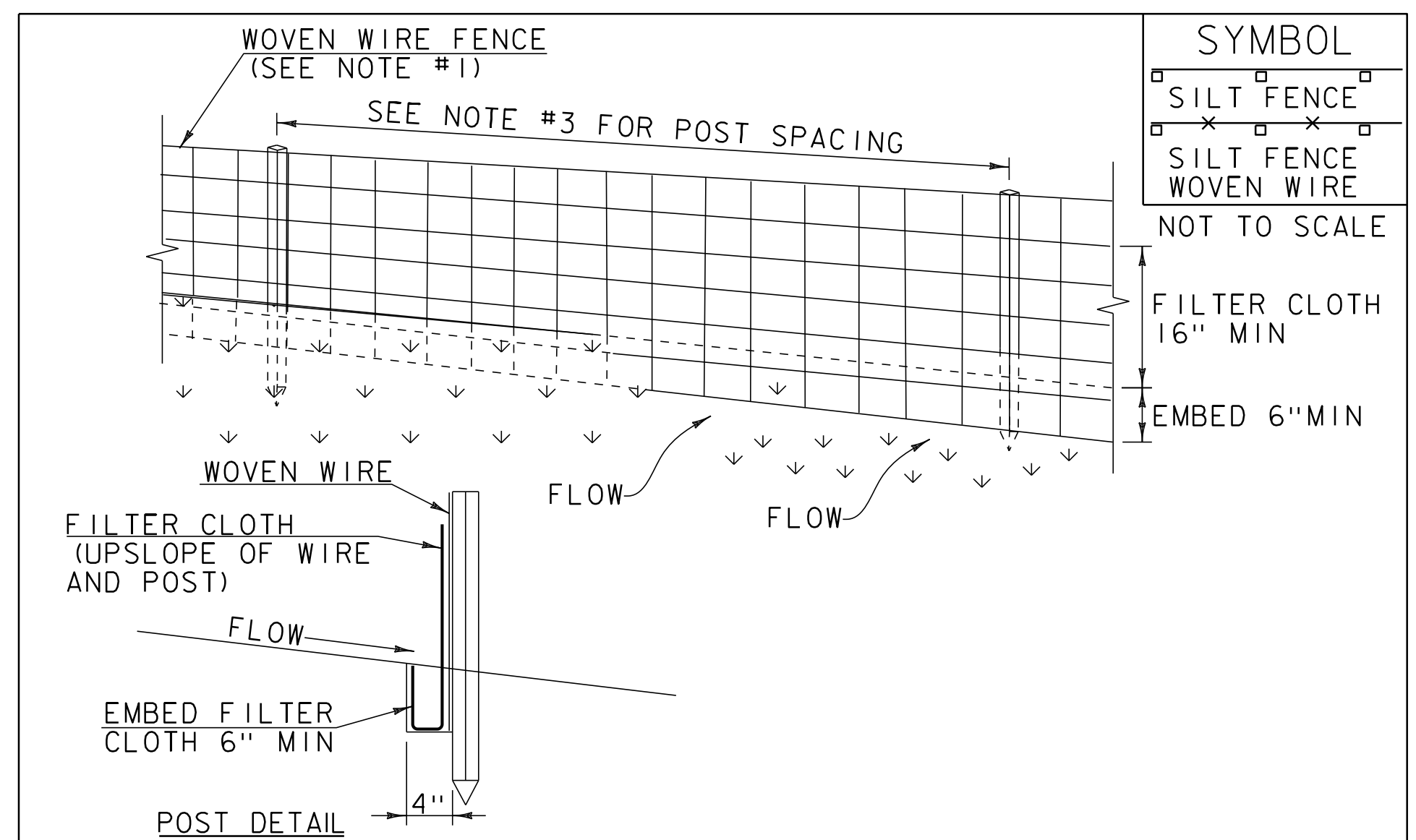
**TURF ESTABLISHMENT**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.5)

REVISIONS	
JANUARY 12, 2015	WHF

PROJECT NAME: ORLEANS VILLAGE	PLOT DATE: 05-MAR-2018
PROJECT NUMBER: BF 0310(7)	DRAWN BY: M. LONGSTREET
FILE NAME: s13j084eroDetails.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C. CARLSON	SHEET 46 OF 47
DESIGNED BY: D. PETERSON	
EPSC DETAILS I	





CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
 ORIGINALLY DEVELOPED BY USDA-NRCS  
 VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SILT FENCE

NOTES:  
 REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

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EPSC DETAILS 2	