

COMPOSITE QUANTITY SHEET 1

TOTAL
FINAL

SUMMARY OF ESTIMATED QUANTITIES									TOTALS			DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES		
STP EH08 (6) - COVERED BRIDGE BASE BID	DECK REPLACEMENT (ADD ALT. A)	CONCRETE REPAIRS (ADD ALT. B)	BRIDGE ST. RET. WALL (ADD ALT. C)	SSMG 72 (ADD ALT. D)	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	TOTAL QUANTITIES	UNIT	ITEMS			
85	-	-	-	800		885		CY	COMMON EXCAVATION	203.15	885	Y	COMMON EXCAVATION			
-	-	-	-	34		34		CY	SOLID ROCK EXCAVATION	203.16	38.47	CY	SOLID ROCK EXCAVATION			
-	-	-	-	140		140		CY	SAND BORROW	203.31	122.94	Y	SAND BORROW			
-	-	-	-	470		470		CY	TRENCH EXCAVATION OF EARTH	204.20	435.05	CY	TRENCH EXCAVATION EARTH			
-	-	-	-	50		50		CY	TRENCH EXCAVATION OF ROCK	204.21	38.39	CY	TRENCH EXCAVATION ROCK			
-	-	-	-	1		1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY	204.22	14.0	CY	TRENCH EXCAVATION EARTH, EXPLORATORY			
90	-	-	100	-		190		CY	STRUCTURE EXCAVATION	204.25	362.95	CY	STRUCTURE EXCAVATION			
105	-	-	85	75		265		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	494.98	Y	GRANULAR BACKFILL STRUCTURES			
40	-	-	-	-		40		LF	DRILLING AND BLASTING OF SOLID ROCK	205.10	28.63	LF	DRILLING/BLASTING SOLID ROCK			
25	-	-	-	-		25		CY	COFFERDAM EXCAVATION, EARTH	208.30	25.01	Y	COFFERDAM EXCAVATION EARTH			
11	-	-	-	-		11		CY	COFFERDAM EXCAVATION, ROCK	208.35	0.74	Y	COFFERDAM EXCAVATION ROCK			
1	-	-	-	-		1		LS	COFFERDAM (NORTH ABUTMENT AND WINGWALL)	208.40	1	LS	COFFERDAM, N.A. ABUTMENT/WINGWALL			
25	-	-	-	-		25		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	14.6	SY	COLD PLANING, BITUMINOUS PAVEMENT			
70	-	-	-	675		745		CY	SUBBASE OF GRAVEL	301.15	745	CY	SUBBASE GRAVEL			
0.5	-	-	-	32		3.7		CWT	EMULSIFIED ASPHALT	404.65	0.5	CWT	EMULSIFIED ASPHALT			
53	-	3	24	-		80		CY	CONCRETE, HIGH PERFORMANCE CLASS B	501.34	117.13	Y	CONCRETE, HPC - B			
-	-	2	-	-		2		EACH	SHORING SUPERSTRUCTURE BEARINGS	502.11	2	EACH	SHORING SUPERSTRUCTURE BEARINGS			
5800	-	85	5500	-		11385		LB	REINFORCING STEEL, LEVEL I	507.11	14,393	LB	REINFORCING STEEL, LEVEL I			
75	-	22	54	-		151		LF	DRILLING AND GROUTING DOWELS	507.16	98.25	LF	DRILLING/GROUTING DOWELS			
6	-	6	3	-		15		GAL	WATER REPELLENT, SILANE	514.10	20	GAL	SILANE			
1.80	5.70	-	-	-		7.50		MFBM	STRUCTURAL LUMBER AND TIMBER - UNTREATED	522.20	8,661.8	MFBM	STRUCTURAL LUMBER/TIMBER, UNTREATED			
1.25	-	-	-	-		1.25		MFBM	STRUCTURAL LUMBER AND TIMBER - TREATED	522.25	1,258	MFBM	STRUCTURAL LUMBER/TIMBER, TREATED			
1.30	-	-	-	-		1.30		MFBM	NON-STRUCTURAL LUMBER-UNTREATED	522.30	1,804.7	MFBM	NON-STRUCTURAL LUMBER, UNTREATED			
1	-	-	-	-		1		EACH	PARTIAL REMOVAL OF STRUCTURE	529.20	1	EACH	PARTIAL REMOVAL STRUCTURE			
-	1	-	-	-		1		EACH	PARTIAL REMOVAL OF STRUCTURE (DECKING)	529.20	1	EACH	PARTIAL REMOVAL STRUCTURE, DECKING			
-	-	1.2	-	-		1.2		CY	REMOVAL OF CONCRETE OR MASONRY	529.25	2.72	CY	REMOVAL CONCRETE/MASONRY			
9	-	-	4	-		13		CY	CONCRETE, CLASS C	541.30	16.14	CY	CONCRETE, CLASS C			
1	-	-	-	-		1		LS	PREFABRICATED MULTI-MODAL BRIDGE (578 SF - EST.)	545.20	1	LS	PREFAB MULTI-MODAL BRIDGE			
-	-	13	-	-		13		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS I	580.13	3.62	SY	REPAIR CONCRETE SUBSTRUCTURE SURFACE, CLASS I			
-	-	6	-	-		6		SY	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II	580.14	7.58	SY	REPAIR CONCRETE SUBSTRUCTURE SURFACE, CLASS II			
-	-	-	-	155		155		LF	18" CPEP (SL)	601.2615	110	LF	18" CPEP (SL)			
-	-	-	-	325		325		LF	24" CPEP (SL)	601.2620	319	LF	24" CPEP (SL)			
-	-	-	-	6		6		EACH	PRECAST REINFORCED CONC. CATCH BASIN WITH CAST IRON GRATE	604.20	5	EACH	PRECAST REINFORCED CONC. CB w/ GRATE			
-	-	-	8	4		12		CY	STONE FILL, TYPE I	613.10	28.64	CY	STONE FILL, TYPE I			
-	-	-	-	35		35		LF	VERTICAL GRANITE CURB	616.21	62.33	LF	VERTICAL GRANITE CURB			
-	-	-	-	345		345		LF	REMOVE AND RESETTING CURB	616.40	354	LF	REMOVE/RESET CURB			
-	-	-	-	35		35		LF	REMOVAL OF EXISTING CURB	616.41	35	LF	REMOVE EXISTING CURB			
13	-	-	-	213		226		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	209.11	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5"			
-	-	-	-	23		23		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	65.89	SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8"			

OK
12/23/15

PROJECT NAME:	WAITSFIELD		
PROJECT NUMBER:	STP EH08(6) AND SSMG 72		
FILE NAME:	620922_FRM.dgn	PROJECT MANAGER:	EPD
DESIGNED BY:	RHB	CHECKED BY:	EPD
COMPOSITE QUANTITY SHEET #1		SHEET	2 OF 30
		PLOT DATE:	12/23/2014
		DRAWN BY:	RHB

COMPOSITE QUANTITY SHEET 2

TOTAL
FINAL

SUMMARY OF ESTIMATED QUANTITIES										TOTALS			DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES		
STP EH08 (6) - COVERED BRIDGE BASE BID	DECK REPLACEMENT (ADD ALT. A)	CONCRETE REPAIRS (ADD ALT. B)	BRIDGE ST. RET. WALL (ADD ALT. C)	SSMG 72 (ADD ALT. D)	ROUND	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	TOTAL FINAL QUANTITIES	UNIT	ITEMS				
12	-	-	-	12		24		SF	DETECTABLE WARNING SURFACE	618.30	12	SF	DETECT. WARNING SURFACE				
47	-	-	-	-		47		LF	STEEL BACKED TIMBER GUARDRAIL	621.18	68.23	LF	STEEL BRACED TIMBER GUARDRAIL				
10	-	-	-	-		10		LF	REMOVING AND RESET GUARD RAIL	621.75	12	LF	REMOVE/RESET GUARDRAIL				
15	-	-	-	25		40		HR	UNIFORMED TRAFFIC OFFICERS	630.10	0	HR	UNIFORMED TRAFFIC OFFICERS				
40	-	-	40	160		240		HR	FLAGGERS	630.15	18	HR	FLAGGERS				
0.5	-	-	-	0.5		1		LS	MOBILIZATION / DEMOBILIZATION	635.11	1	LS	MOB/DEMOB				
1	-	-	-	-		1		LS	TRAFFIC CONTROL	641.10	1	LS	TRAFFIC CONTROL				
2	-	-	-	-		2		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	2	EACH	PORTABLE CHANGEABLE MSG. SIGN				
-	-	-	-	370		370		LF	4" WHITE LINE	646.20	370	LF	4" WHITE LINE				
-	-	-	-	550		550		LF	4" YELLOW LINE	646.21	550	LF	4" YELLOW LINE				
-	-	-	-	25		25		LF	24" STOP BAR	646.26	25	LF	24" STOP BAR				
-	-	-	-	4		4		EACH	LETTER OR SYMBOL	646.30	4	EACH	LETTER/SYMBOL				
-	-	-	-	100		100		SY	GEOTEXTILE FOR SILT FENCE	649.51	21.63	SY	GEOTEXTILE FOR SILT FENCE				
5	-	-	-	5		10		LB	SEED	651.15	10	LB	SEED				
10	-	-	-	5		15		LB	FERTILIZER	651.18	15	LB	FERTILIZER				
0.03	-	-	-	0.02		0.05		TON	AGRICULTURAL LIMESTONE	651.20	2.03	TON	AGRI. LIMESTONE				
0.03	-	-	-	0.02		0.05		TON	HAY MULCH	651.25	0.14	TON	HAY MULCH				
10	-	-	-	15		25		CY	TOPSOIL	651.35	2	CY	TOPSOIL				
-	-	-	-	11		11		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	3	EACH	INLET PROTECTION DEVICES				
60	-	-	-	-		60		SF	TRAFFIC SIGNS, TYPE A	675.20	66.7	SF	TRAFFIC SIGNS, TYPE A				
90	-	-	-	-		90		LF	SQUARE TUBE SIGN POSTS AND ANCHOR	675.341	12.7	LF	SQ. TUBE SIGN POSTS/ANCHORS				
10	-	-	-	-		10		EACH	REMOVING SIGNS	675.50	16	EACH	REMOVING SIGNS				
-	-	-	-	460		460		LF	ELECTRICAL CONDUIT (2") (PVC)	678.21	703	LF	ELEC. CONDUIT, 2" PVC				
37	-	-	-	-		37		LF	WIRED CONDUIT (2") (PVC)	678.23	0	LF	WIRED CONDUIT, 2" PVC				
-	-	-	-	2		2		EACH	JUNCTION BOX	678.26	0	EACH	JUNCTION BOX				
-	-	-	-	135		135		LF	ELECTRICAL CONDUIT SLEEVE	678.30	14.7	LF	ELECTRICAL CONDUIT SLEEVE				
-	-	-	-	1		1		EA	POWER DROP STANCHION, STREET LIGHTING	679.55	0	EA	POWER DROP STANCHION, STREET LIGHTING				
24	-	-	31	-		55		LF	SPECIAL PROVISION (TIMBER RAILING)	900.640	51.1818	LF	SPECIAL PROVISION, TIMBER RAILING				
-	-	-	-	1		1		LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY) (N.A.B.I.)	900.650	-(#1,857.93)	LU	MAT DENSITY PAY ADJUST.				
-	-	-	-	1		1		LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT) (N.A.B.I.)	900.650	0	LU	MAT MIXTURE PAY ADJUST.				
1375	-	-	-	-		1375		SF	SPECIAL PROVISION (CEDAR SHINGLE ROOF)	900.670	0	SF	CEDAR SHINGLE ROOF				
33	-	-	-	300		333		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	289.71	TON	BITUMINOUS CON. PAVEMENT, SMALL QTY.				
											-(#800.00)	LS	LEAVE SISTERED BEAM UNDER WALKWAY				
											61,650.00	LS	COLD WEATHER CONCRETE CURING BLANKETS				
											60	CY	RIP RAP, TYPE III				
											\$550.00	LS	REBAR (DELIVER) REBAR NE WALKWAY EXT.				
											\$450.00	LS	FLOOR BEAM DELIVERY				
											0.481	MFEM	FLOOR BEAM ADDITION				
											0.177	MFEM	ONE DECKING ADDITION (FD #6)				
											0.357	MFEM	ONE DECKING ADDITION (FD #8)				
											41,320.00	LS	TENSAR FABRIC (OVER EXCAVATION NW WALL)				
											-(#527.71)	LS	CREDIT FOR OVER EXCAVATION NW WALL				
											180.13	CY	EXISTING SUBSURFACE PIPE REMOVAL EXCAVATION				
											\$300.00	LS	TREE REMOVAL				
											8	EA	LIGHT BASES				
											1	EA	REPLACE WATER VALVE FISHER				

Cl. 16 12/23/14

PROJECT NAME: **WAITSFIELD**
 PROJECT NUMBER: **STP EH08(6) AND SSMG 72**
 FILE NAME: 620922_FRM.dgn PLOT DATE: 12/23/2014
 PROJECT MANAGER: EPD DRAWN BY: RHB
 DESIGNED BY: RHB CHECKED BY: EPD
 COMPOSITE QUANTITY SHEET #2 SHEET 3 OF 30

NO.	DATE	DESCRIPTION	BY	CHKD
1	9/22/15	NEW WALL	PCB	EPD
2	8/10/15	NORTHEAST WALL UPDATE	PCB	EPD
3	7/31/15	WALL UPDATES	PCB	EPD

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

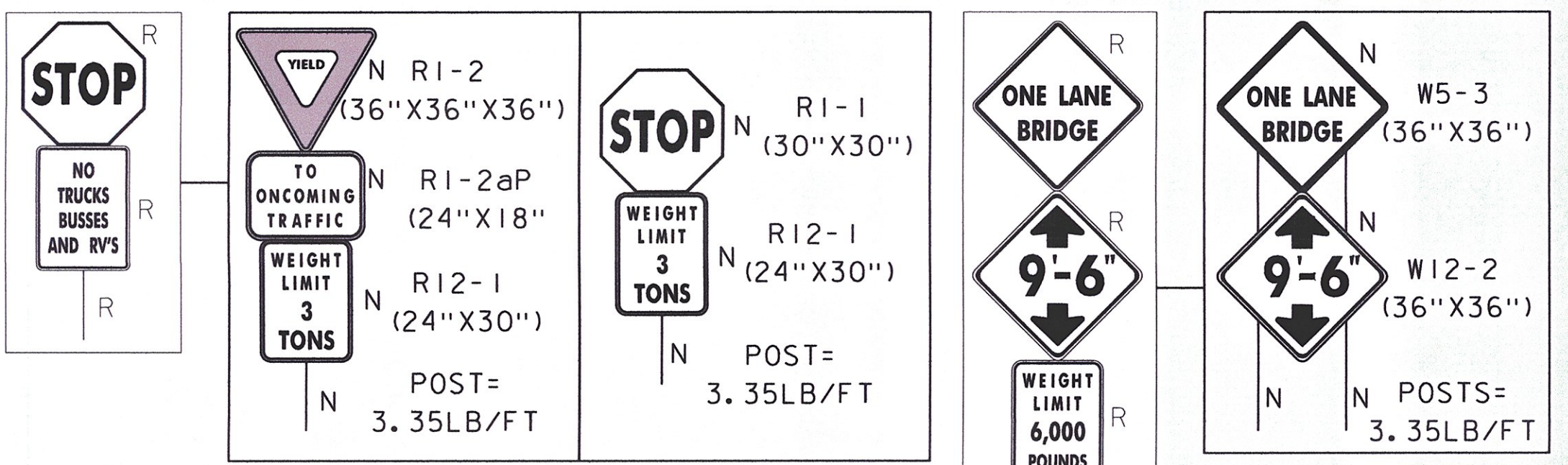
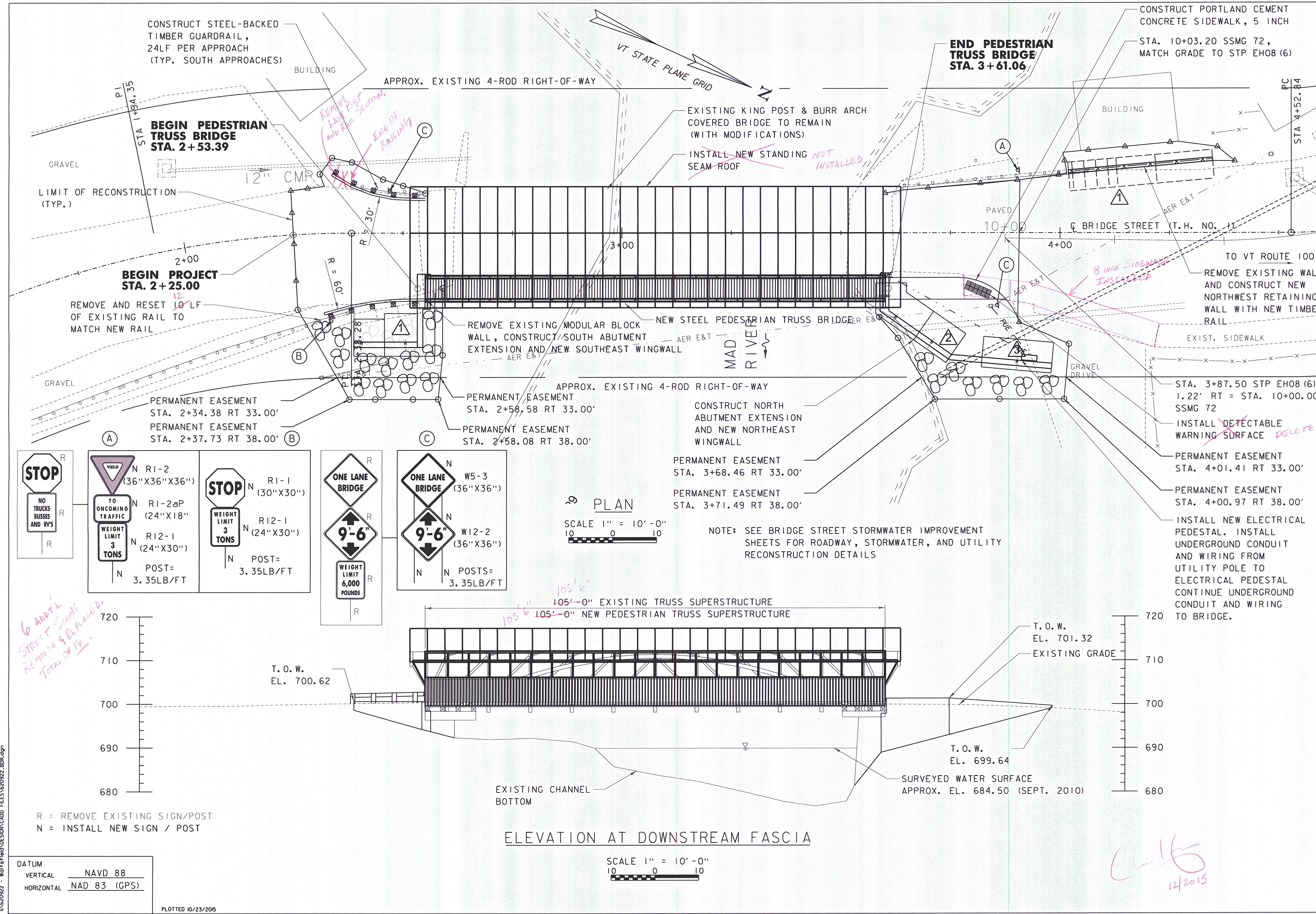
PLAN & ELEVATION

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DKR PROJECT #
EPD	620922
PROJ. ENG.	DKR ARCHIVE #
RHB	620922

SHEET NUMBER

10

SHEET 10 OF 30



*6 ADD'L
STREET SIGNS
REMOVE & REPLACE BY
TOTAL OF 16.*

R = REMOVE EXISTING SIGN/POST
N = INSTALL NEW SIGN / POST

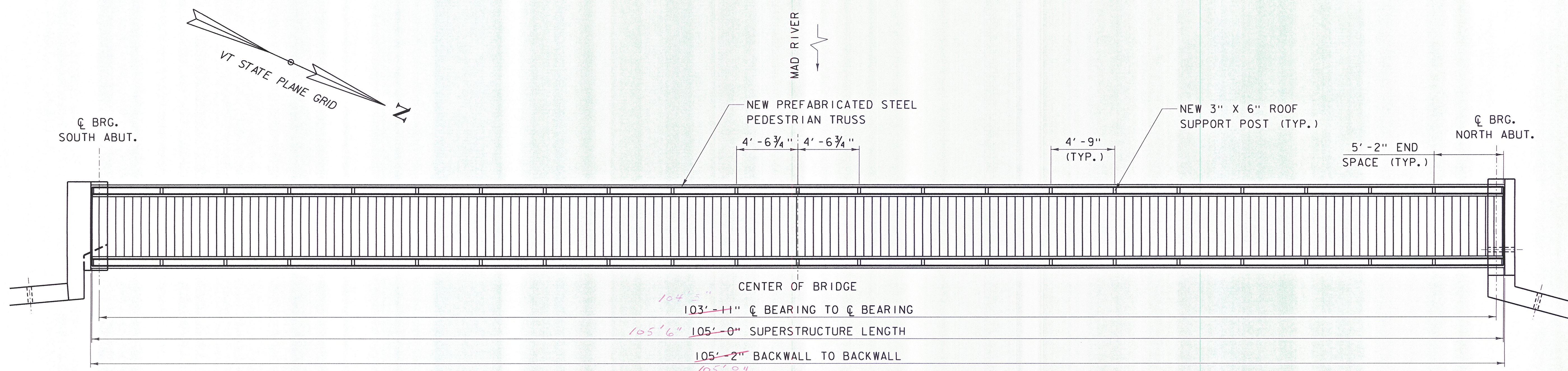
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

PLOTTED 10/23/2015

I:\620922 - Waitsfield\DESIGN\CADD FILES\620922_BDR.dgn

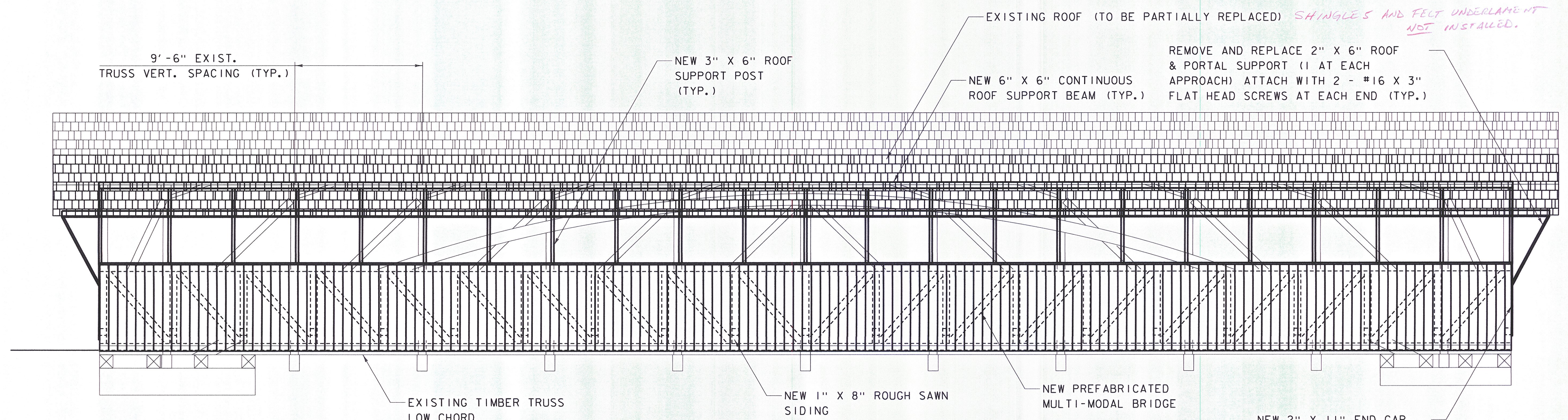
*10/16
12/2015*

FINAL PLANS



PEDESTRIAN TRUSS PLAN

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



PEDESTRIAN TRUSS ELEVATION

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

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
**SUPERSTRUCTURE
DETAILS**

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

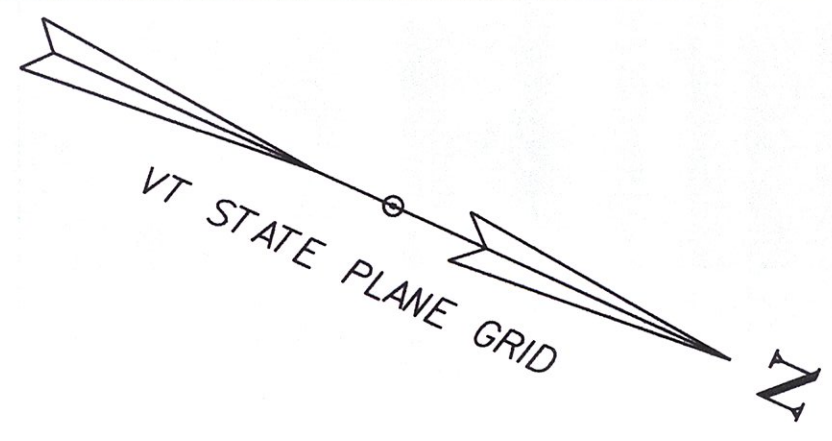
SHEET NUMBER
12
SHEET 12 OF 30

I:\620922 - Waitsfield\DESIGN\CADD FILES\620922_SUP.dgn

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

PLOTTED 12/30/2014

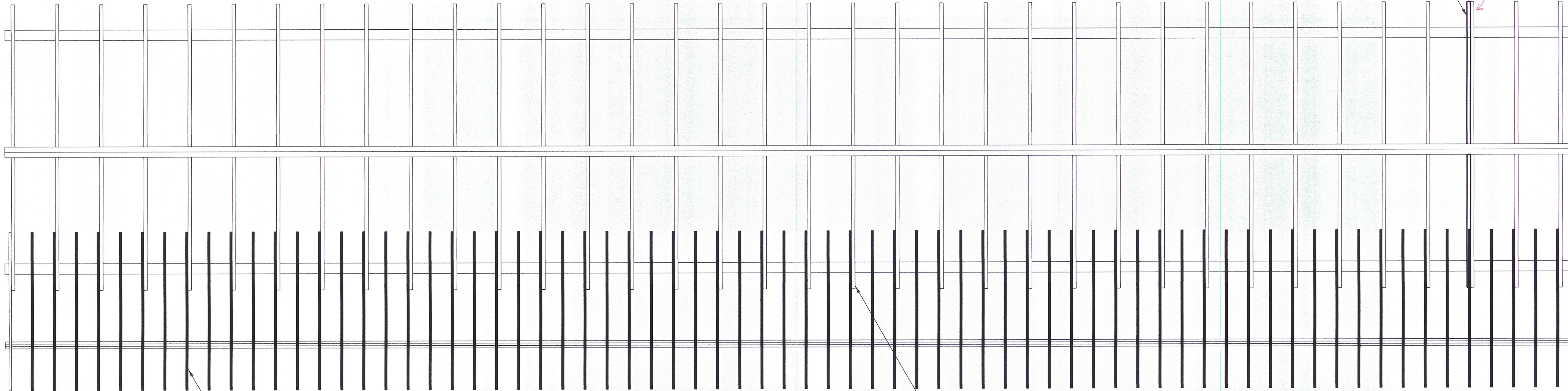
Clarke 12/30/15



MAD RIVER

INSTALL NEW 3" X 5" (TRUE) ROOF RAFTER. SISTER WITH EXISTING 3" X 5" (TRUE). ATTACH WITH 2 - #14 X 4" FLAT HEAD SCREWS AT 1'-6" SPACING.

NEW 3" X 5" RAFTER MOVED TO OPPOSITE SIDE OF EXISTING RAFTER



ROOF FRAMING PLAN

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

SEE ATTACHMENT DETAIL, SHEET 11 (EVERY OTHER RAFTER) (TYP.)

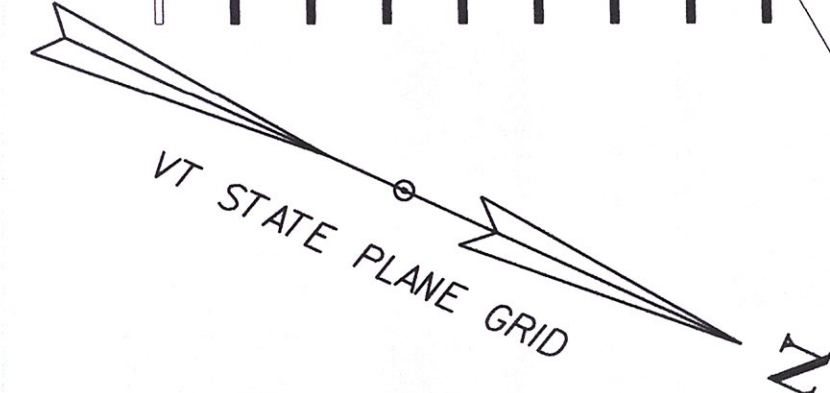
1'-7" SPACING (TYP.)

REPLACE 2" X 4" FULL SAWN (TRUE) SIDEWALK ROOF RAFTER (TYP. ALL SIDEWALK ROOF RAFTERS)

REMOVE AND REPLACE 10" X 12" (TRUE) FLOOR BEAM (TYP.)

INCLUDING #4, 31, and 41. REPLACED W/ DOUGLASS FIR PER D&K MEMO. 6-3-15. WORK DIRECTION #3

INSTALL MISSING 12" X 12" (TRUE) FLOOR BEAM



MAD RIVER

DuBois & King Inc.
 ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
 6 GREEN TREE DRIVE
 SOUTH BURLINGTON, VT 05403
 TEL: (802) 878-7661
 FAX: (866) 783-7101
 www.dubois-king.com
 RANDOLPH, VT
 SPRINGFIELD, VT
 BEDFORD, NH
 LACONIA, NH
 © Copyright 2014 DuBois & King Inc.
 PROFESSIONAL SEAL

FINAL PLANS

TOWN OF WAITSFIELD
 9 BRIDGE STREET
 WAITSFIELD, VT

VILLAGE COVERED BRIDGE REHAB. & BRIDGE STREET STORMWATER IMPROVEMENTS

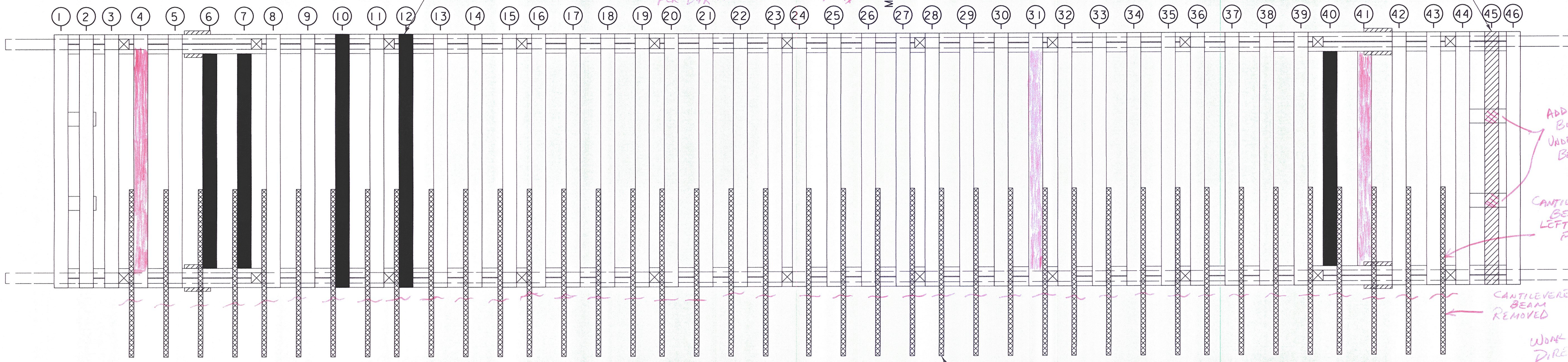
SHEET TITLE
ROOF FRAMING & FLOOR FRAMING PLAN

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

SHEET NUMBER

13

SHEET 13 OF 30



FLOOR FRAMING PLAN

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

REMOVE EXISTING CANTILEVER SIDEWALK BEAM (TYP.)

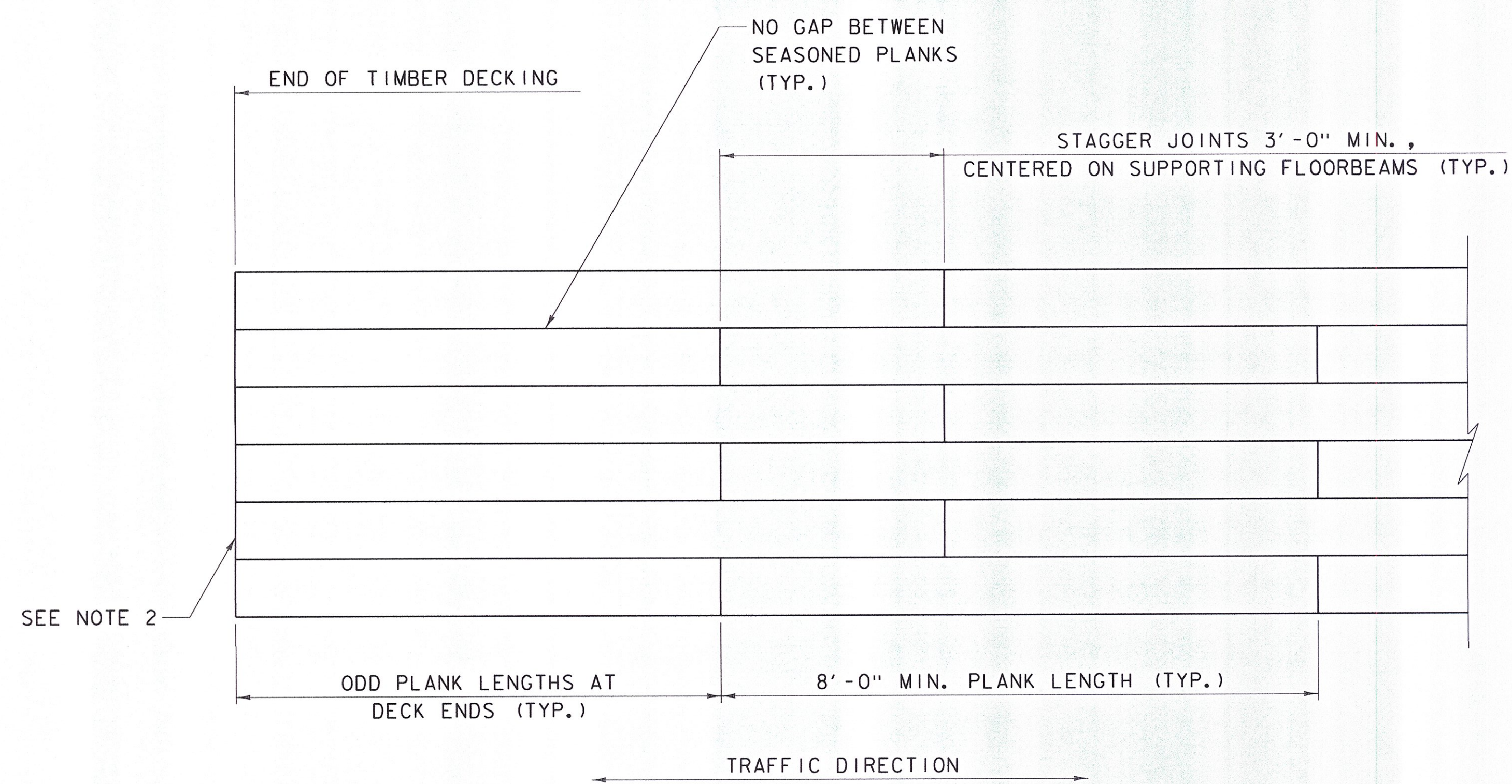
LEGEND

- ① = FLOORBEAM NUMBER
- = MEMBER TO BE REPLACED
- ▨ = MISSING MEMBER TO BE REPLACED
- ▩ = MEMBER TO BE REMOVED

DATUM
 VERTICAL NAVD 88
 HORIZONTAL NAD 83 (GPS)

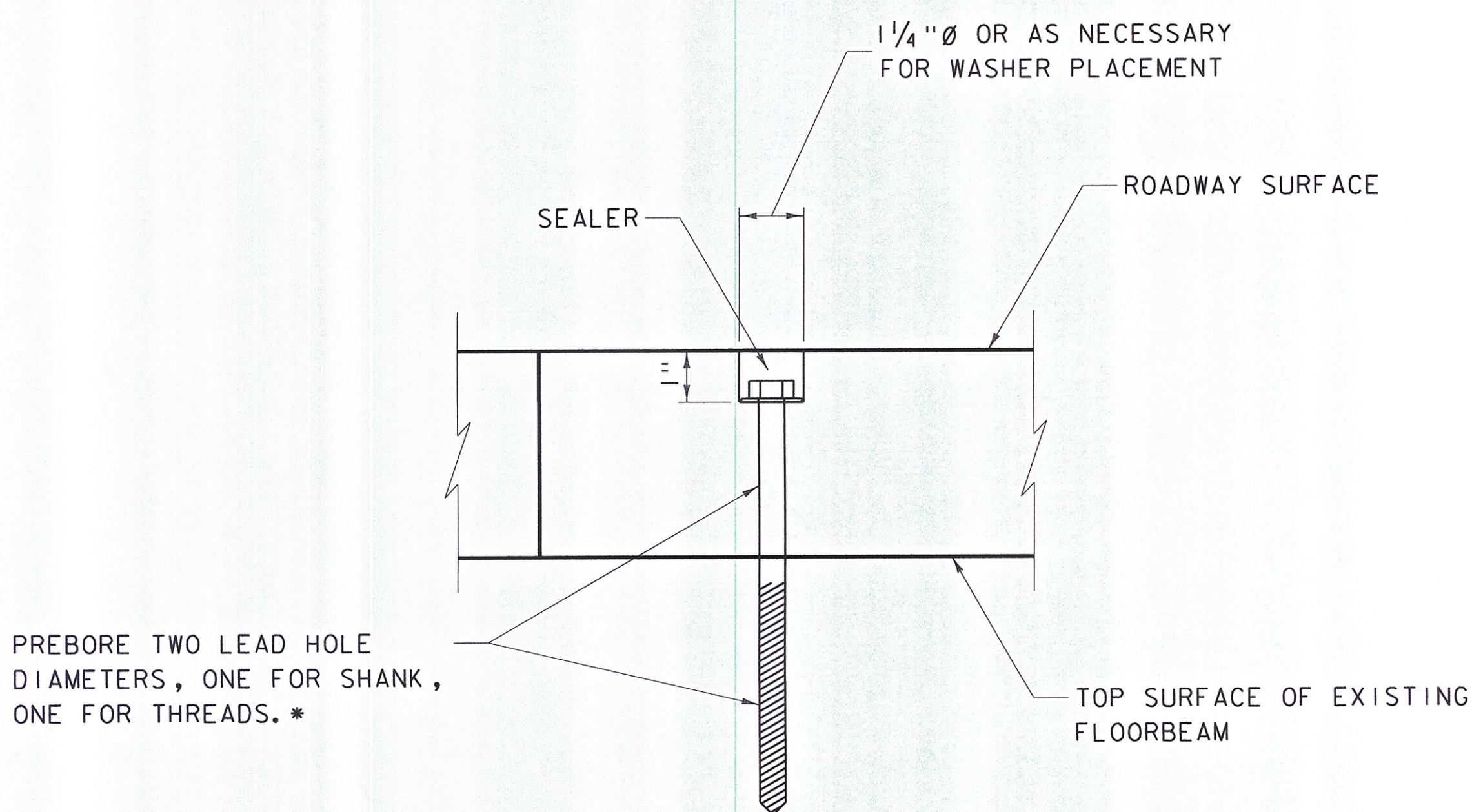
PLOTTED 12/30/2014

i:\620922 - Waitsfield\DESIGN\CADD FILES\620922_SIP.dgn



TIMBER DECK LAYOUT

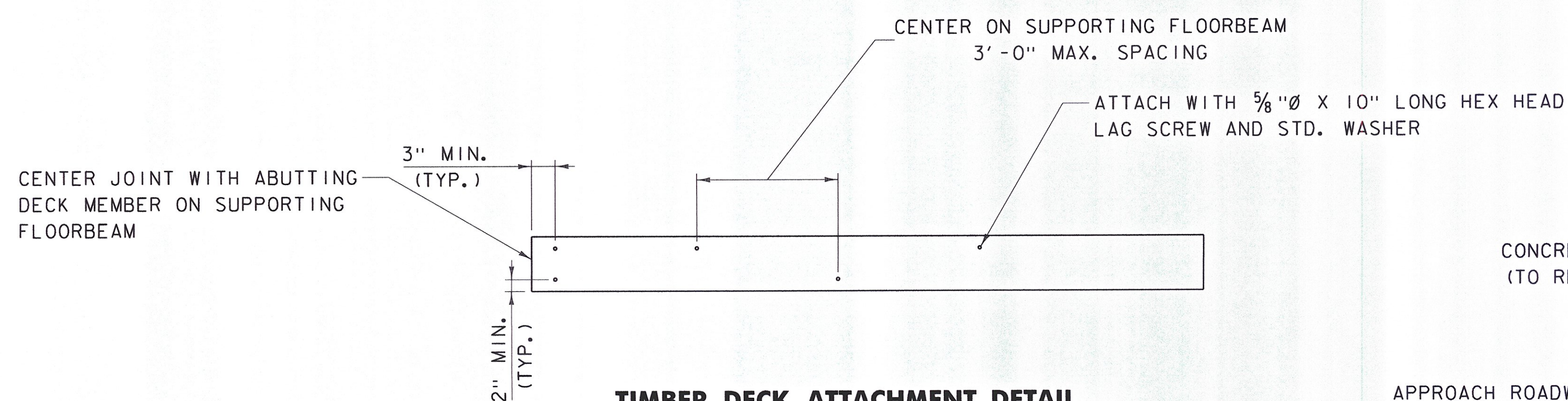
NOT TO SCALE



LAG SCREW ATTACHMENT DETAIL

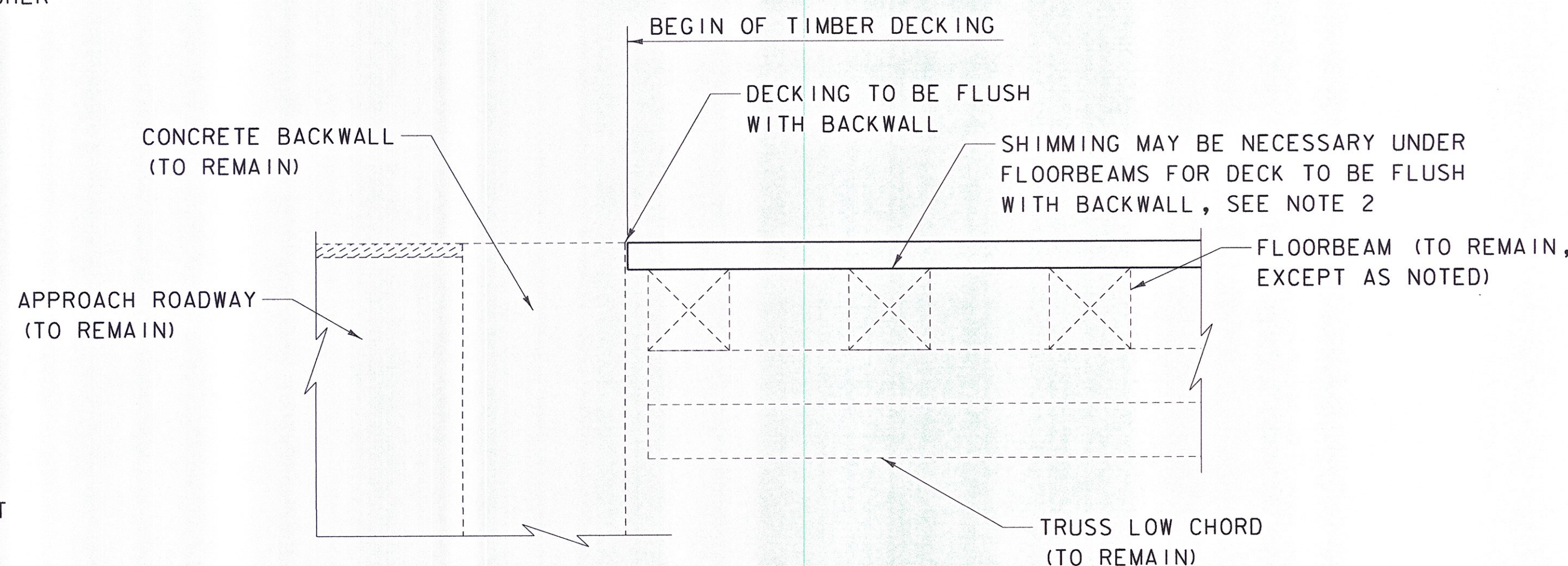
NOT TO SCALE

* SHANK PREBORE DIAMETER = SHANK DIAMETER
THREADED PREBORE DIAMETER = 65% OF SHANK DIAMETER



TIMBER DECK ATTACHMENT DETAIL

NOT TO SCALE



DECK END DETAIL

NOT TO SCALE

NOTES:

- LAG SCREWS SHALL BE PLACED IN A LEAD HOLE, COUNTERSUNK, AND SEALED WITH APPROVED MASTIC COMPOUND OR CAULK OF COLOR TO MATCH WOOD. PAYMENT FOR FASTENERS AND SEALANT SHALL BE CONSIDERED INCIDENTAL TO LUMBER AND TIMBER ITEM. *→ SIKAFLEX 2CSL, LIMESTONE GRAY COLOR*
- END OF TIMBER DECKING SHALL BE FLUSH WITH THE APPROACH ROADWAY GRADE. SHIMMING UNDER END FLOORBEAMS, AS DIRECTED BY THE ENGINEER, MAY BE NECESSARY FOR DECKING TO BE FLUSH. IF USED, SHIMMING TIMBER SHALL BE SAME AS USED FOR DECKING. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO LUMBER AND TIMBER ITEM.
- NEW LAG SCREWS SHALL BE INSTALLED IN NEW HOLES, OFFSET FROM THE EXISTING HOLES IN THE FLOORBEAMS.

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

TIMBER DECK
ATTACHMENT
DETAILS

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DBK PROJECT #
RHD	620922
PROJ. ENG.	DBK ARCHIVE #
RHB	620922

SHEET NUMBER

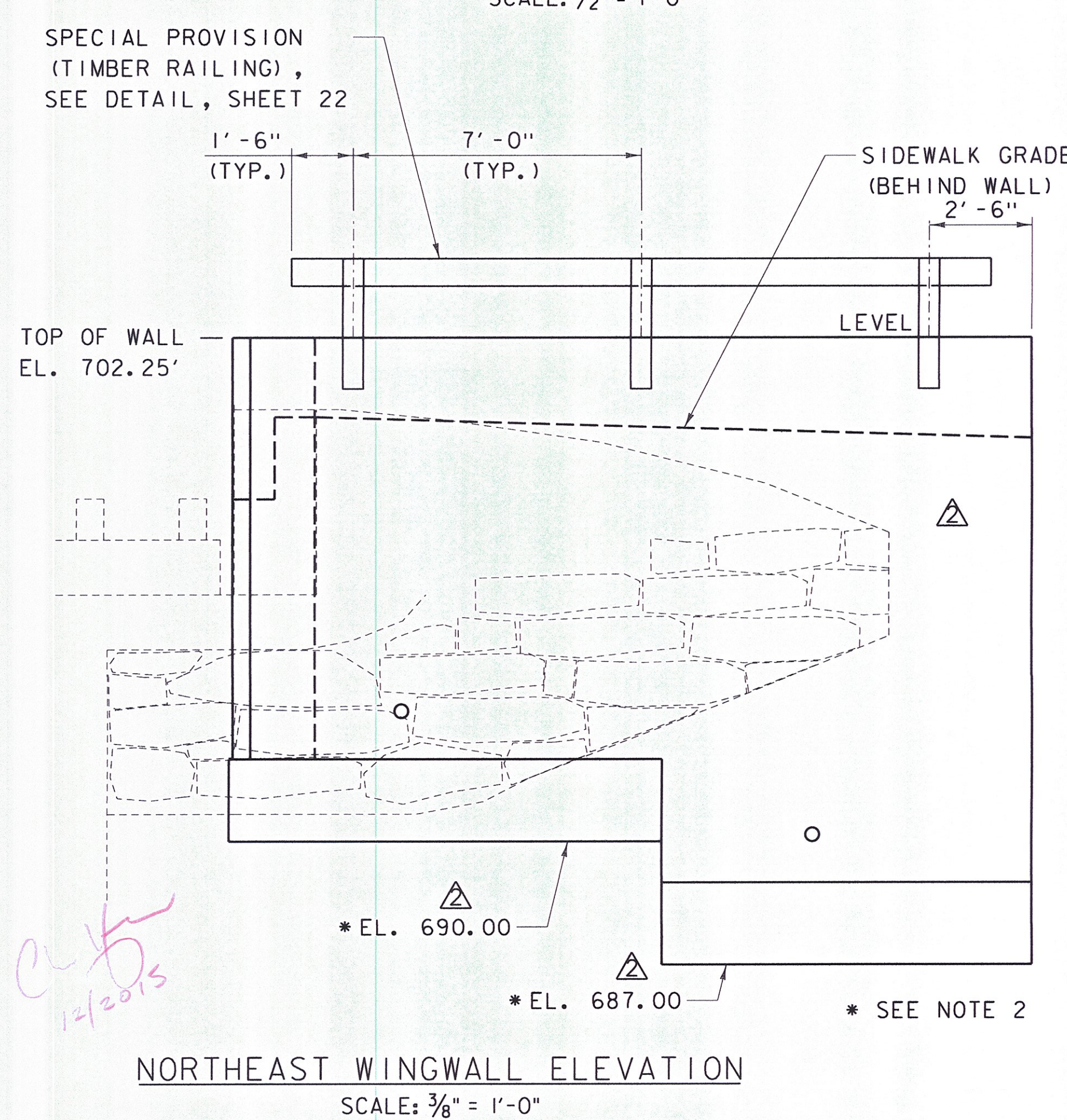
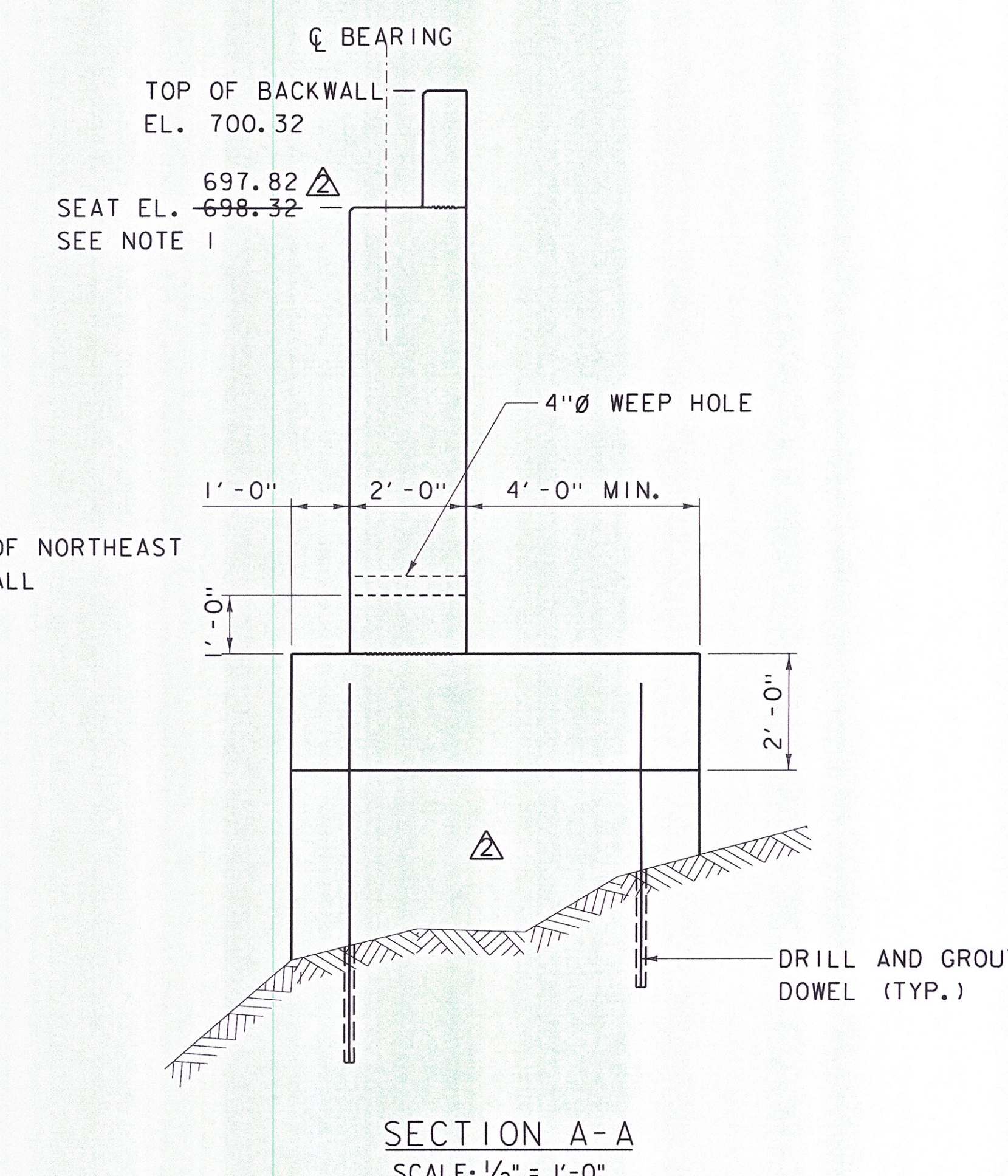
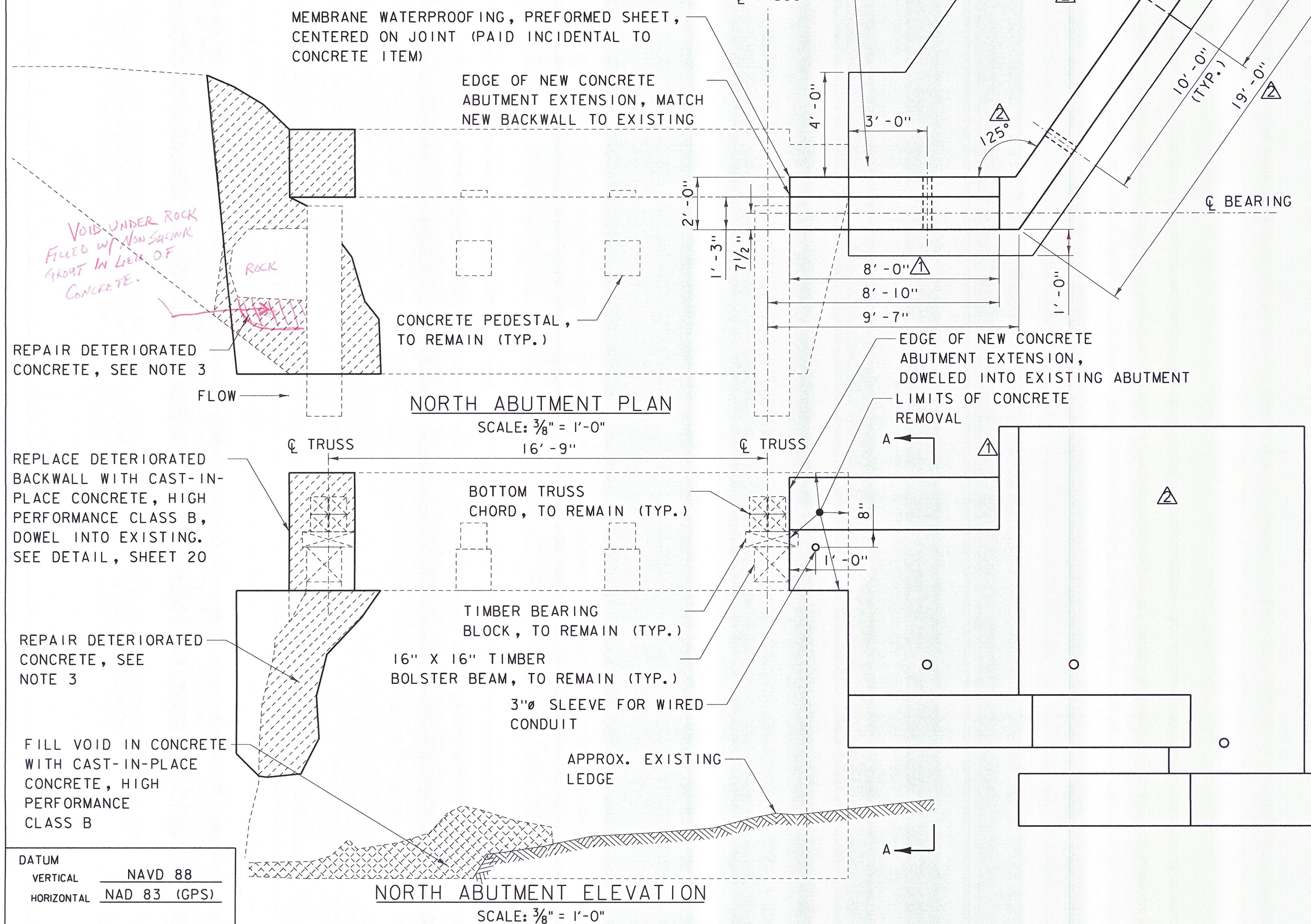
15

SHEET 15 OF 30

NOTES:

- ELEVATION IS BASED ON A 2'-0" DEPTH OF SUPERSTRUCTURE AND BEARING FROM FINISHED GRADE TO BRIDGE SEAT. IF A DIFFERENT DEPTH OF SUPERSTRUCTURE AND BEARING IS USED, ADJUST THIS ELEVATION ACCORDINGLY, WHILE MAINTAINING A LOW CHORD NO LOWER THAN EL. ~~698.65~~ 697.94 NORTH BOTTOM
- BOTTOM OF FOOTING ELEVATIONS AND FOOTING STEPS SHOWN ARE BASED ON AVAILABLE INFORMATION. FOOTING STEPS ARE INTENDED TO APPROXIMATELY MATCH EXISTING LEDGE PROFILE. REFER TO SHEET 4 FOR ADDITIONAL INFORMATION REGARDING FOUNDATION PREPARATION AND THE NEW CONCRETE FOOTINGS.
- DETERIORATED CONCRETE AT WEST SIDE OF NORTH ABUTMENT TO BE REPAIRED USING ITEM 501.34, "CONCRETE, HIGH PERFORMANCE CLASS B". FORMING TO FOLLOW SMOOTH CONCRETE SURFACES OF ABUTMENT AND WINGWALL. REFER TO SHEET 4, CONCRETE REPAIR NOTES FOR SURFACE PREPARATION INFORMATION. PAYMENT FOR SURFACE PREPARATION SHALL BE MADE ITEM 529.25. PAYMENT FOR CONCRETE SHALL BE MADE UNDER ITEM 501.34.

= APPROX. DETERIORATED OR SPALLED CONCRETE AREA



DuBois & King Inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
6 GREEN TREE DRIVE
SOUTH BURLINGTON, VT 05403
TEL: (802) 878-7661
FAX: (866) 783-7101
www.dubois-king.com
RANDOLPH, VT
SPRINGFIELD, VT
BEDFORD, NH
LACONIA, NH
© Copyright 2014 DuBois & King Inc.
PROFESSIONAL SEAL

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CRD
1	8/10/15	NORTH EAST WALL UPDATE	PCB	
2	7/31/15	WALL UPDATES	PCB	

TOWN OF WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
NORTH ABUTMENT &
NORTHEAST
WINGWALL
MASONRY

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

SHEET NUMBER

16

I:\620922 - Waitsfield\DESIGN\CADD FILES\620922_SIB.dgn

PLOTTED 8/11/2015

NO.	DATE	DESCRIPTION	BY	CHKD
1				
2				
3				
4				
5				
6				
7				
8	8/10/15	NORTHEAST WALL UPDATE	PGB	EPD
9	7/31/15	WALL UPDATES	PGB	EPD
10				
11				

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

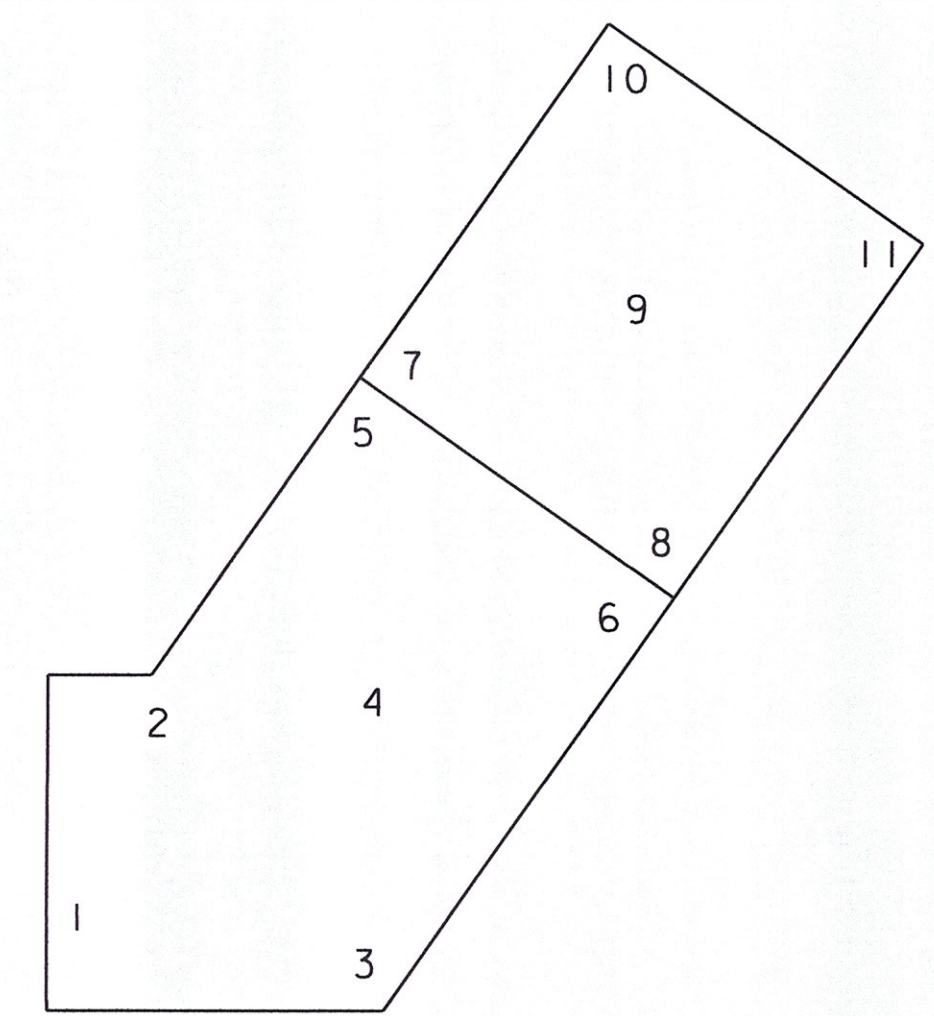
VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

NORTH ABUTMENT &
NORTHEAST
WINGWALL
REINFORCING

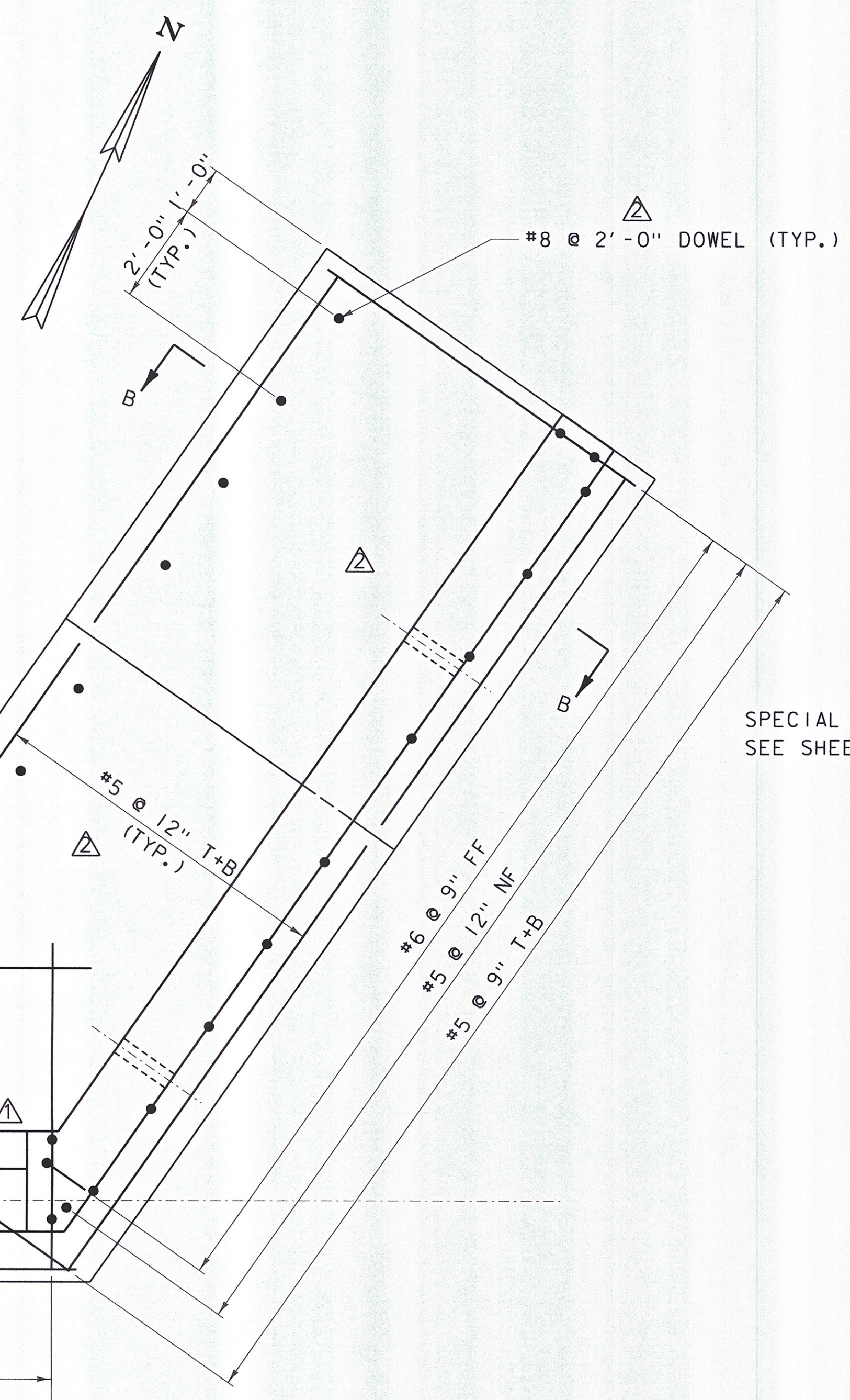
DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

SHEET NUMBER



APPROXIMATE SUBFOOTING
OR LEDGE REMOVAL DEPTHS
NOT TO SCALE

LOCATION	APPROX. LEDGE ELEVATION	APPROX. SUBFOOTING DEPTH	APPROX. LEDGE REMOVAL
1	690.1	-	0.1'
2	690.1	-	0.1'
3	684.2	5.8'	-
4	686.9	3.1'	-
5	687.2	2.8'	-
6	685.8	4.2'	-
7	685.9	1.1'	-
8	685.7	1.3'	-
9	685.9	1.1'	-
10	685.9	1.1'	-
11	685.7	1.3'	-



NORTH ABUTMENT AND NORTHEAST
WINGWALL PLAN
SCALE: 1/2" = 1'-0"

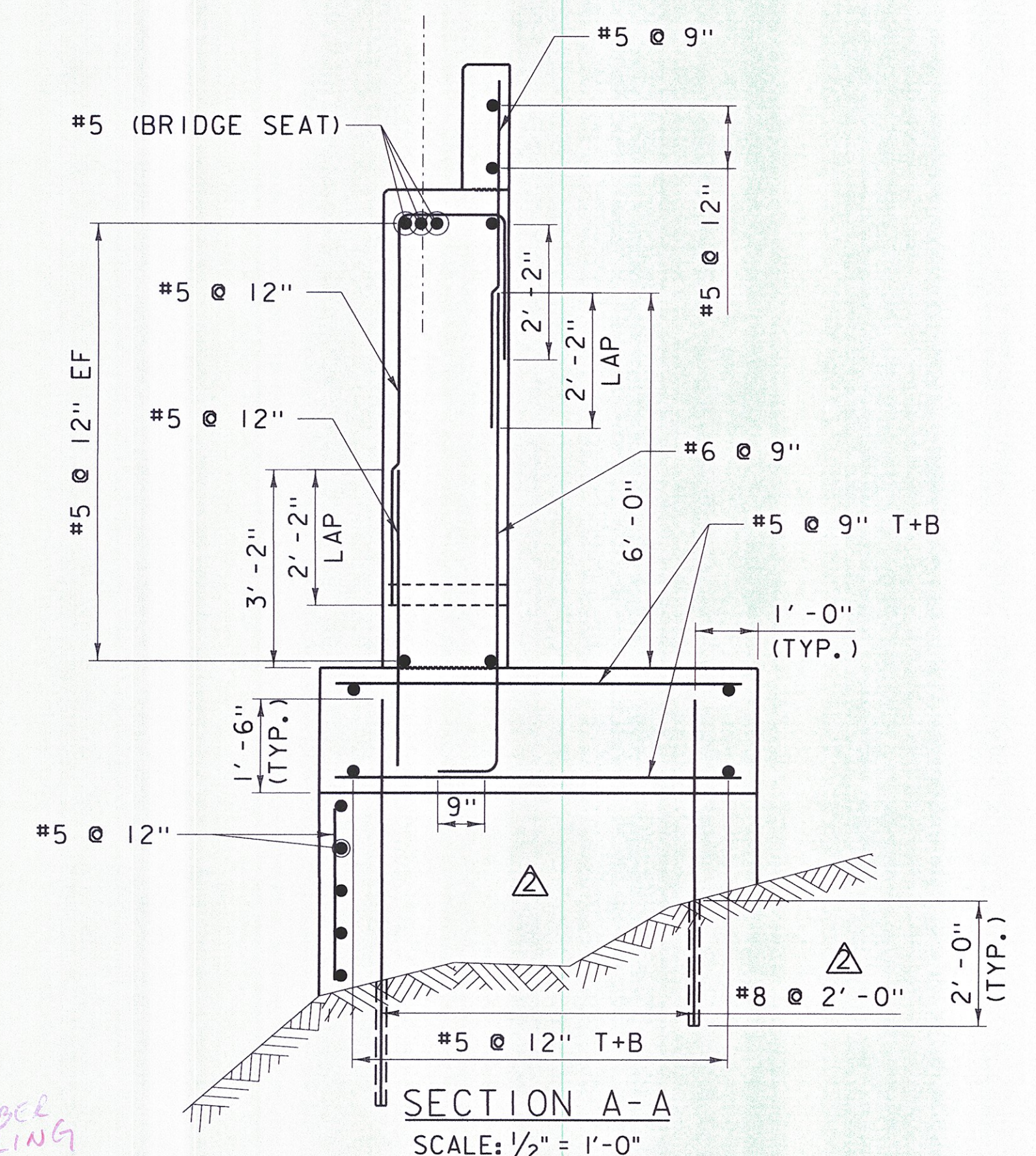
DRILL AND GROUT,
#5 DOWEL @ 12" EF
INTO EXIST. BACKWALL
AND STEM

1'-3"
MIN.

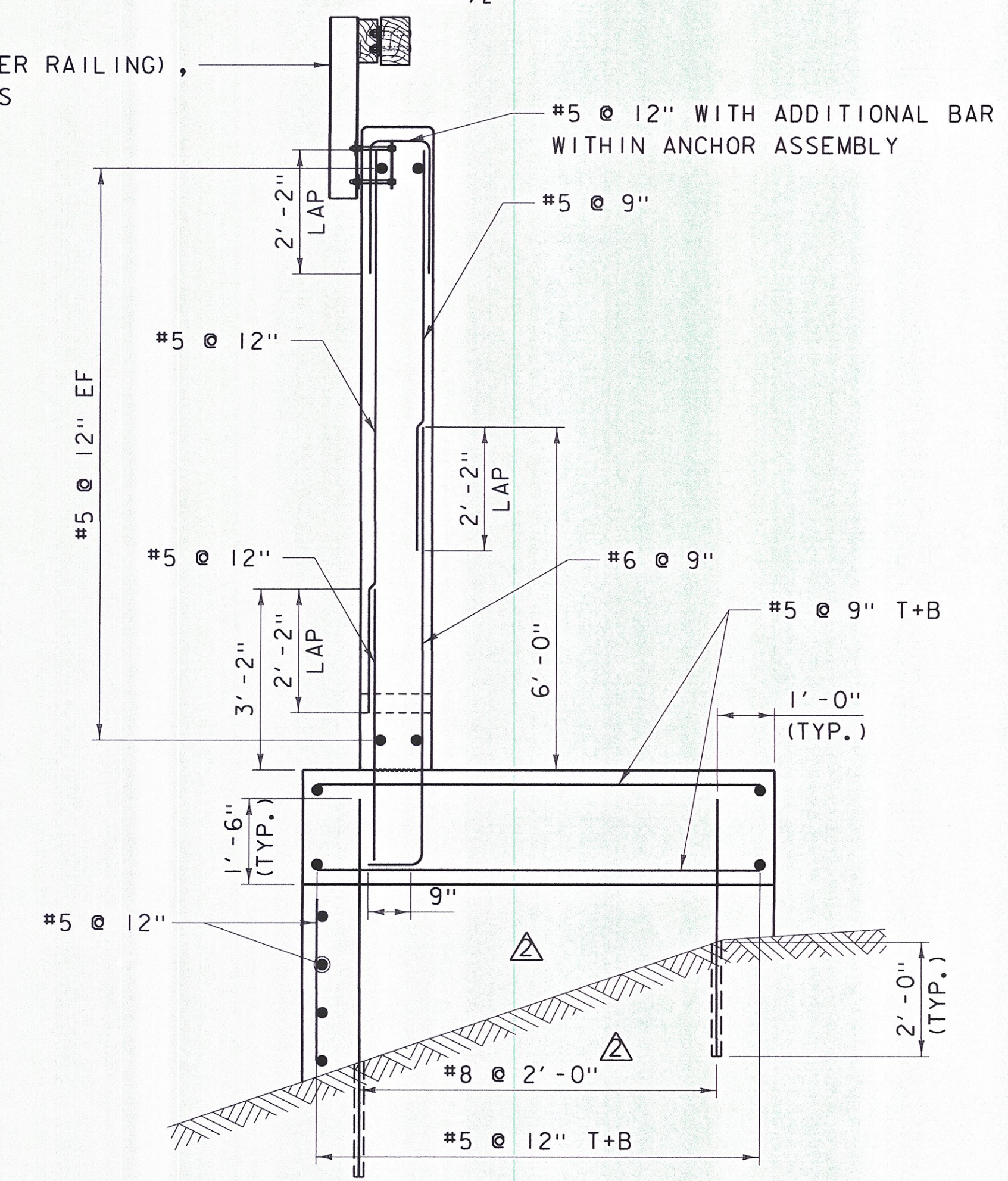
DRILL AND GROUT
#5 DOWEL (15" MIN.)
EF

NOTE:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
T+B = TOP AND BOTTOM
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

~~DELETED TIMBER RAILING~~
SPECIAL PROVISION (TIMBER RAILING),
SEE SHEET 22 FOR DETAILS



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHKD
1	9/22/15	NEW WALL AND SHEET	PCB	EPD

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
**NORTHEAST
WINGWALL
MASONRY AND
REINFORCING**

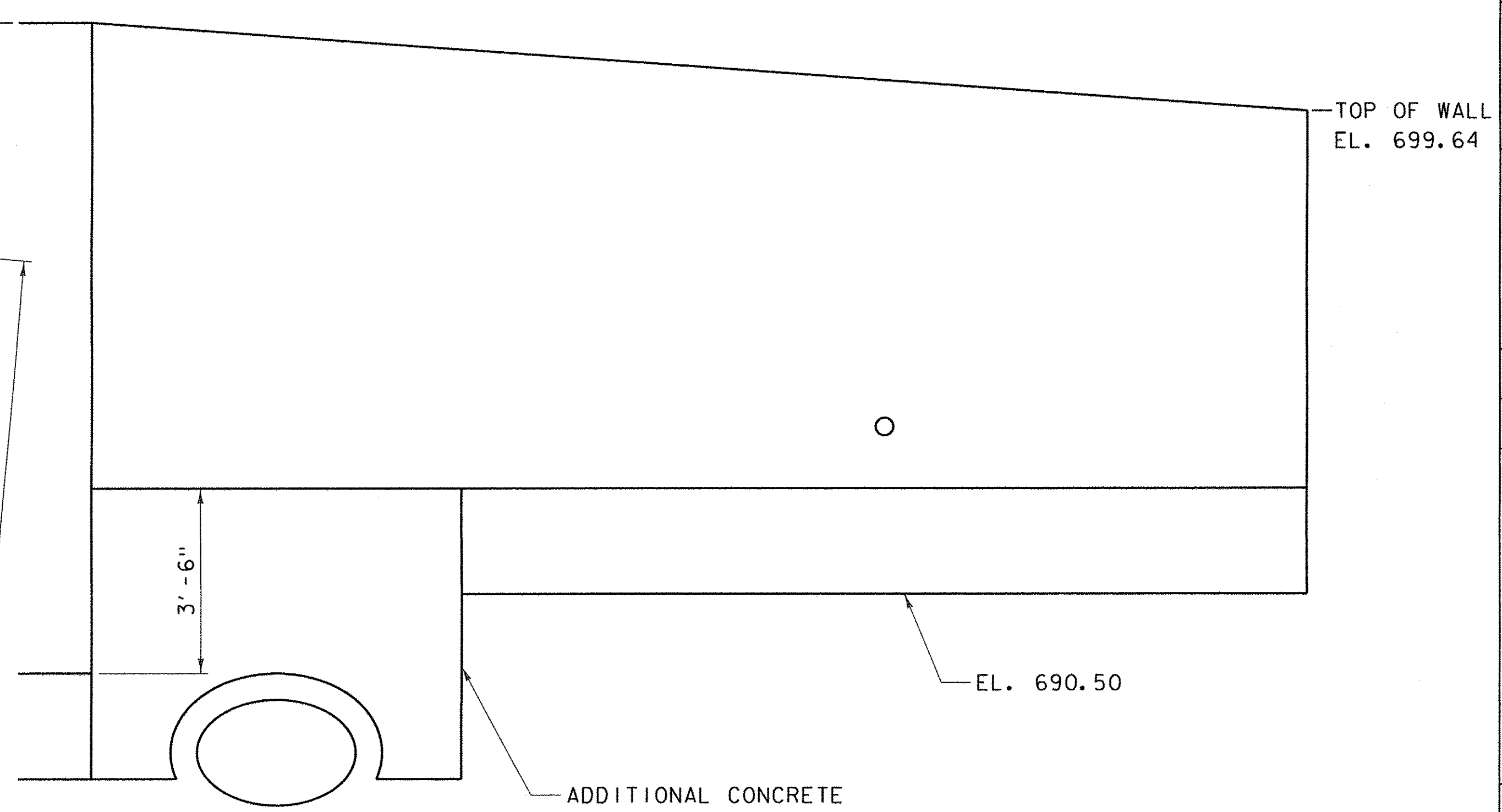
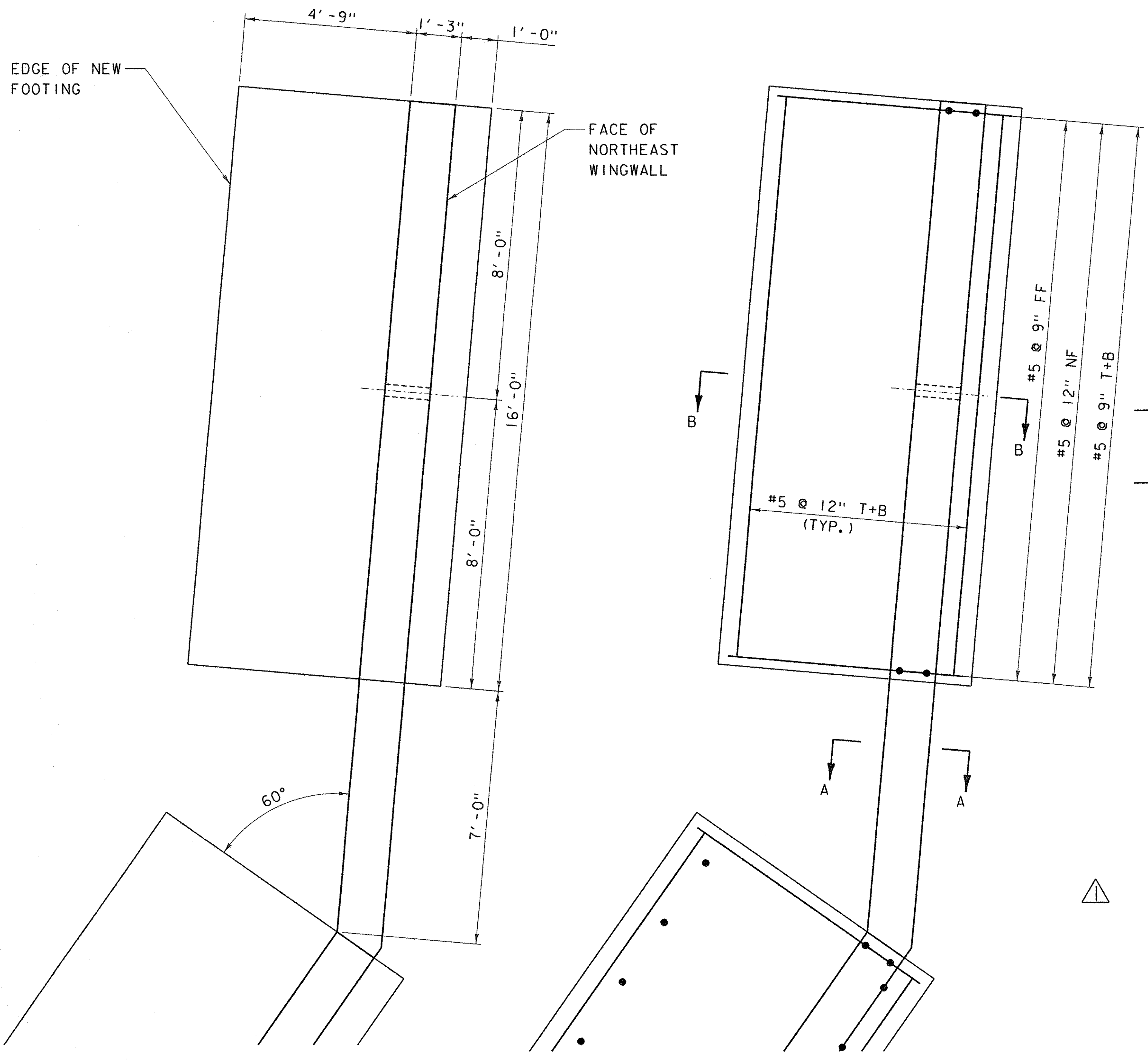
DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

SHEET NUMBER

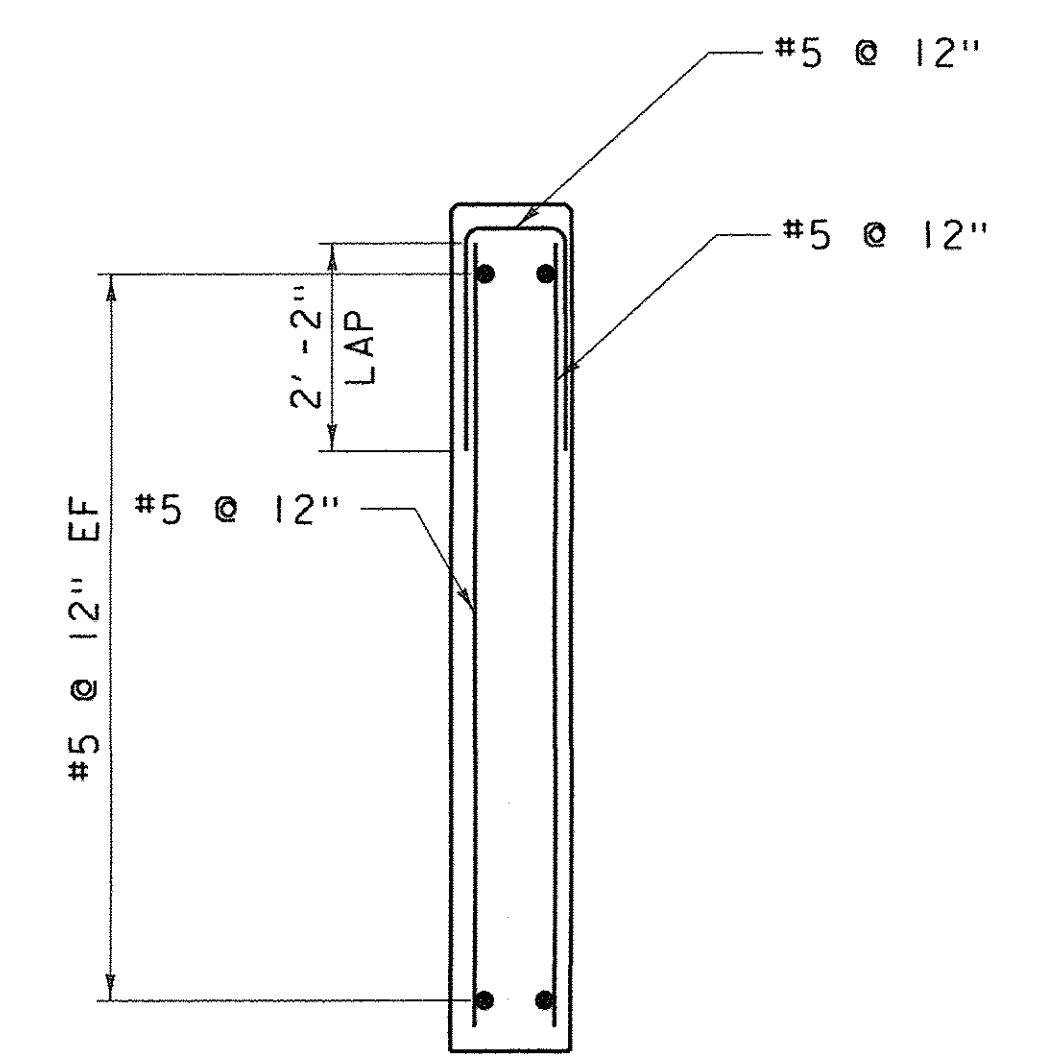
17A

TOP OF WALL
EL. 701.32

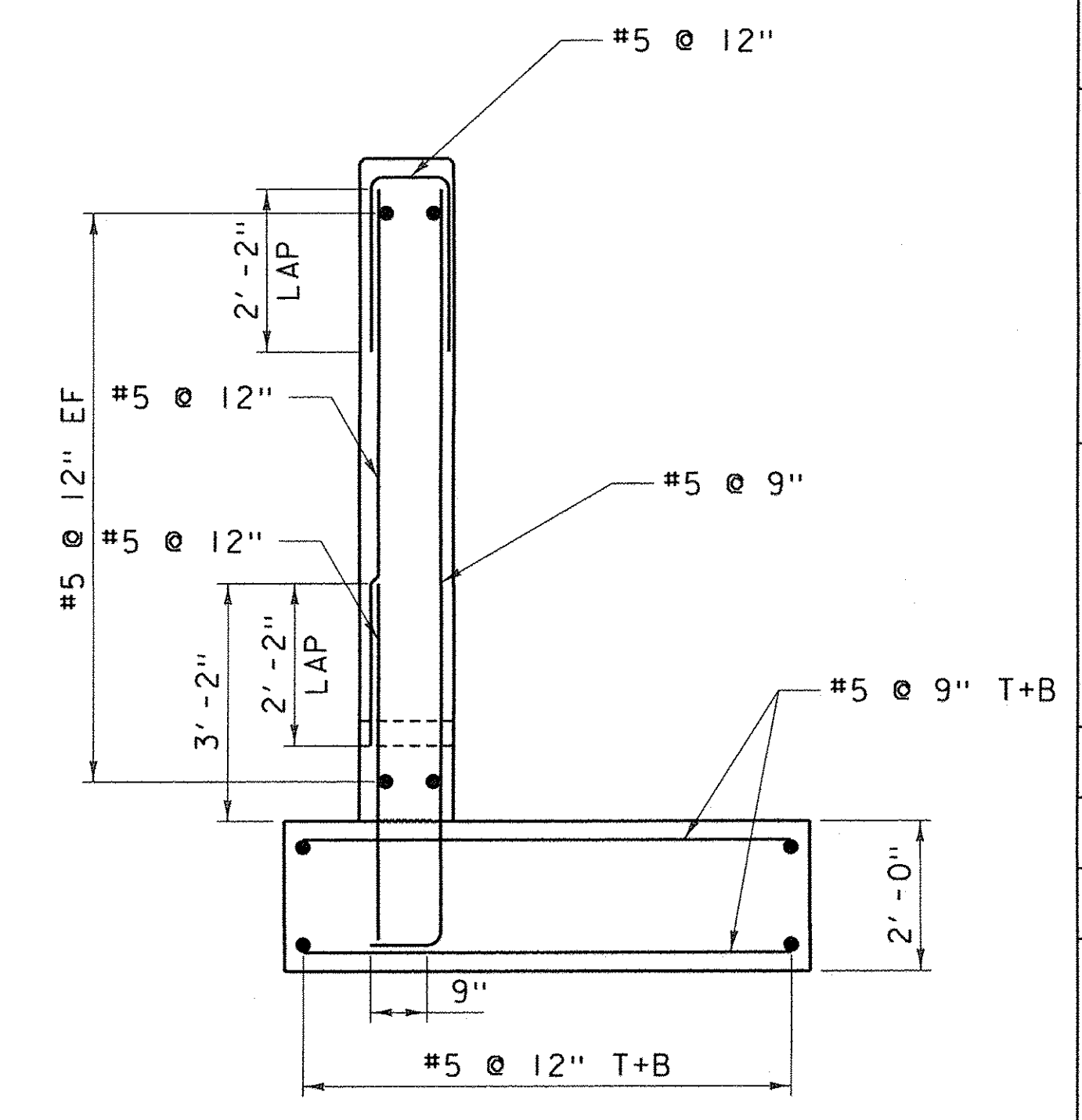
TOP OF WALL
EL. 699.64



NORTHEAST WINGWALL ELEVATION
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTE:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
T+B = TOP AND BOTTOM
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

NOTE:
ADDITIONAL CONCRETE
POUR TO INFILL AREA
BETWEEN BOTTOM OF
WALL AND TOP OF PIPE
NOT SHOWN FOR CLARITY

NORTHEAST WINGWALL MASONRY PLAN
SCALE: 1/2" = 1'-0"

**NORTHEAST WINGWALL FOOTING
REINFORCING PLAN**
SCALE: 1/2" = 1'-0"

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

FINAL PLANS

NO.	DATE	DESCRIPTION
1	7/31/15	WALL UPDATES

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

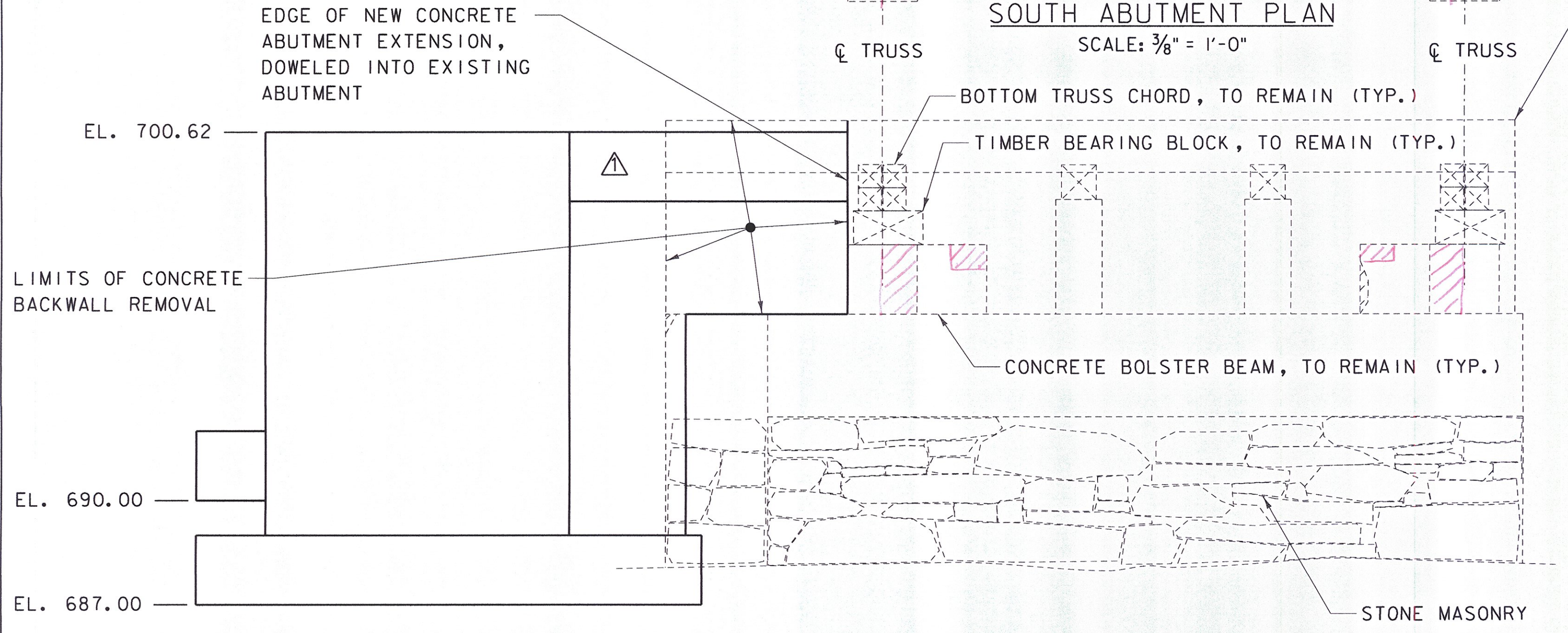
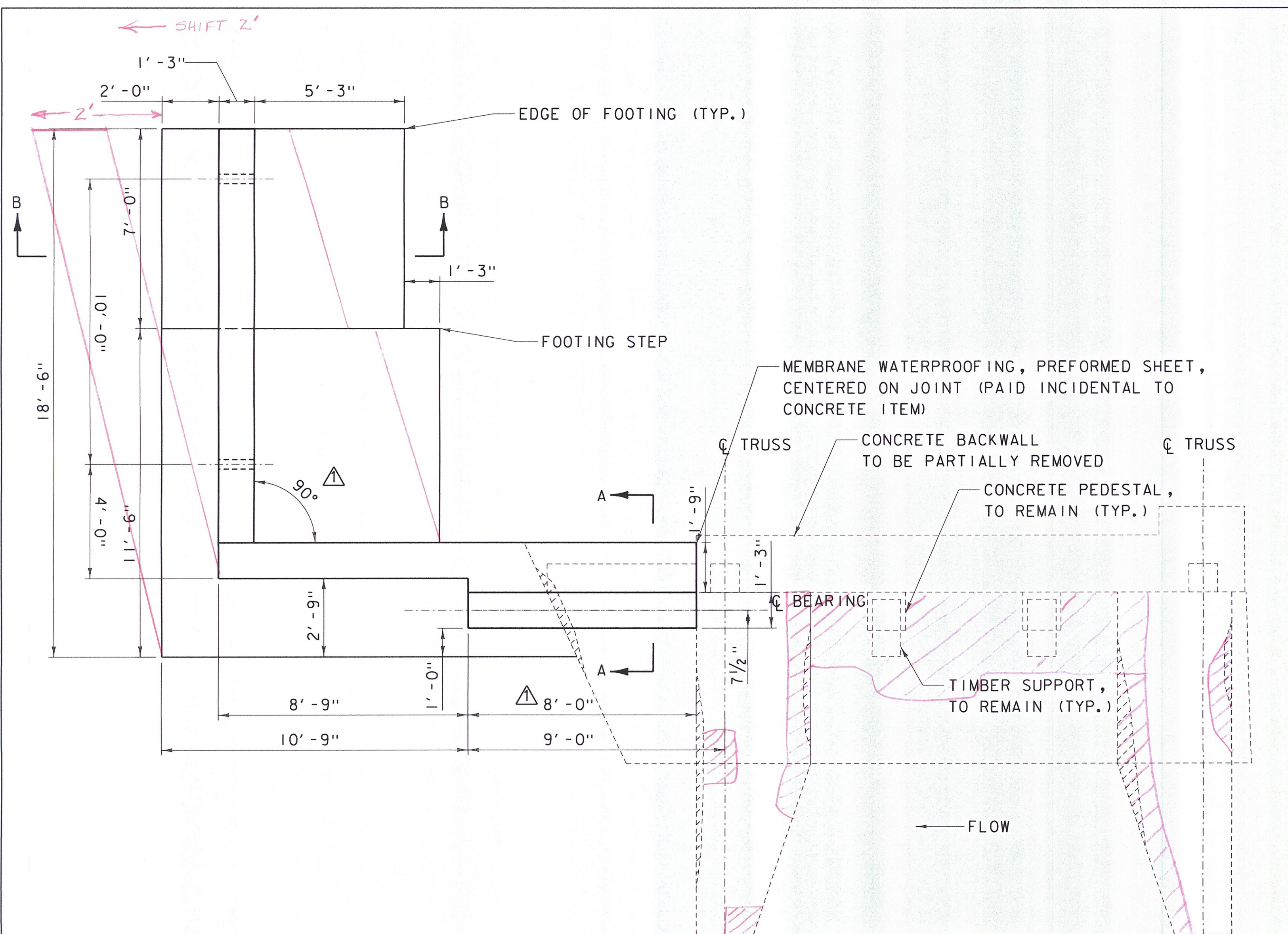
VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
SOUTH ABUTMENT &
SOUTHEAST
WINGWALL
MASONRY

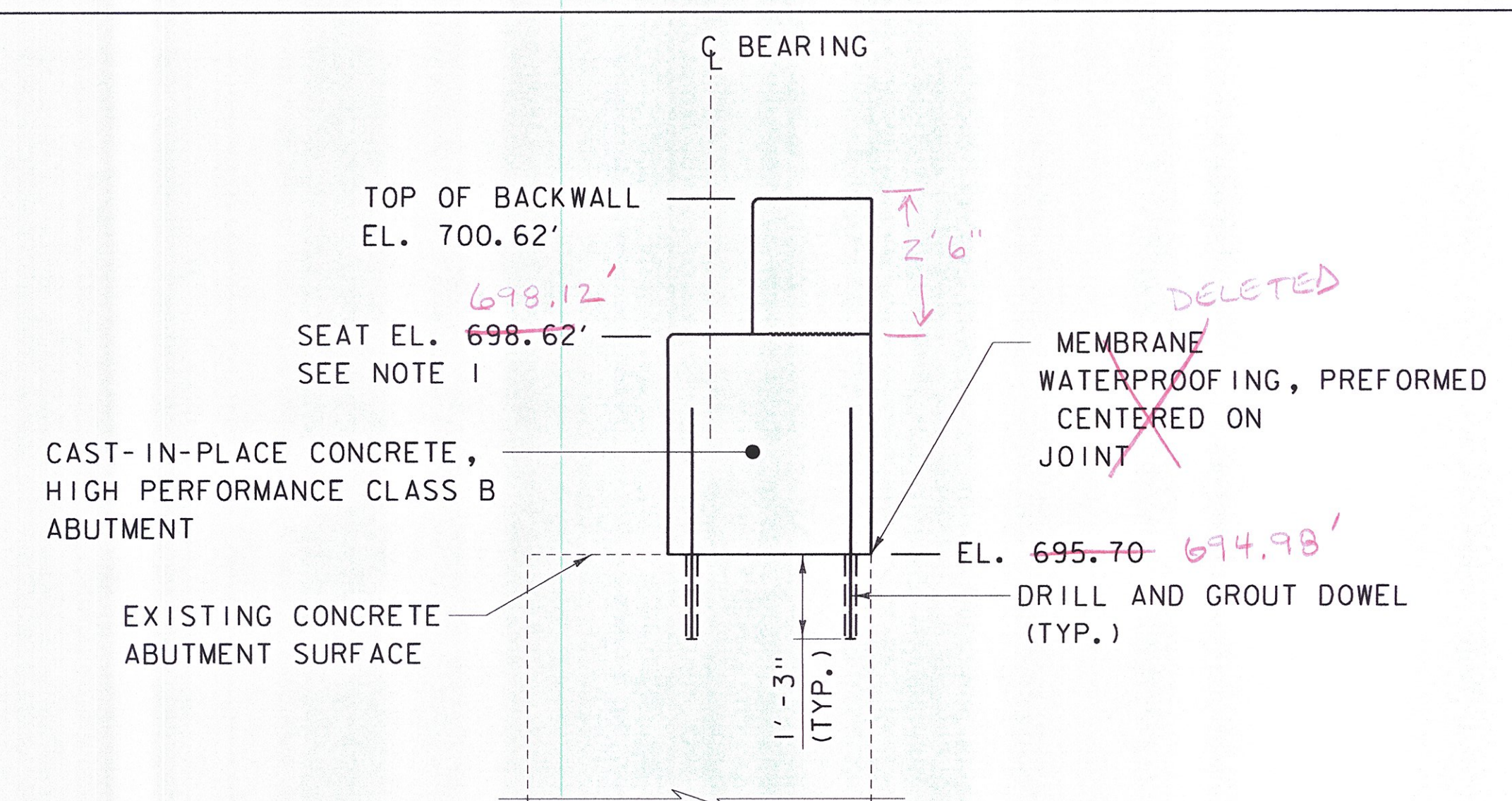
DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DRK PROJECT #
RHD	620922
PROJ. ENG.	DRK ARCHIVE #
RHB	620922

SHEET NUMBER

18



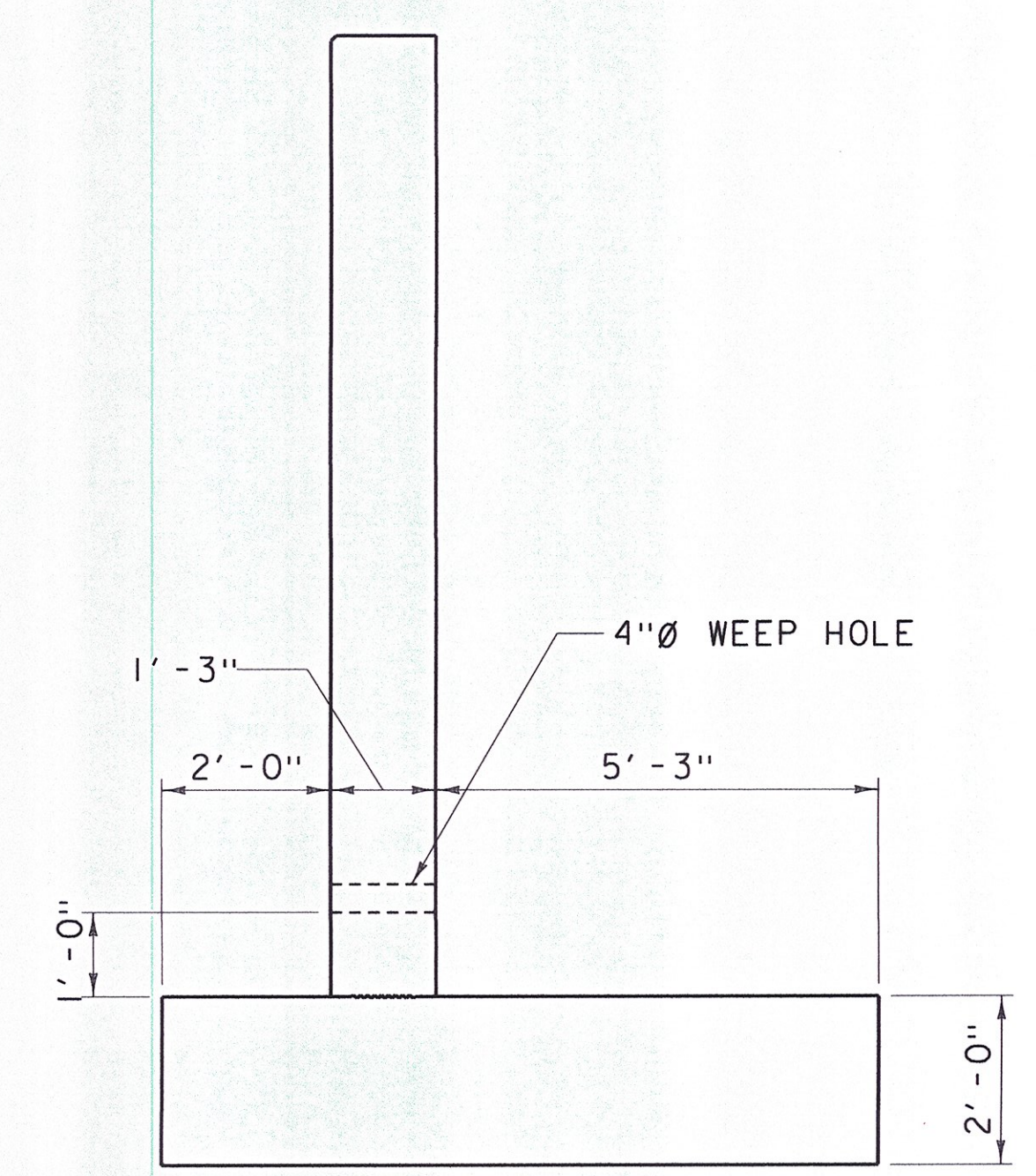
SOUTH ABUTMENT ELEVATION
SCALE: 3/8" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"

- NOTES**
- ELEVATION IS BASED ON A 2'-0" DEPTH OF SUPERSTRUCTURE AND BEARING FROM SIDEWALK GRADE TO BRIDGE SEAT. IF A DIFFERENT DEPTH OF SUPERSTRUCTURE AND BEARING IS USED, ADJUST THIS ELEVATION ACCORDINGLY, WHILE MAINTAINING A LOW CHORD NO LOWER THAN EL. 698.95. *697.94'*
 - REFER TO SHEET 4, CONCRETE REPAIR NOTES FOR CONCRETE REPAIR INFORMATION.

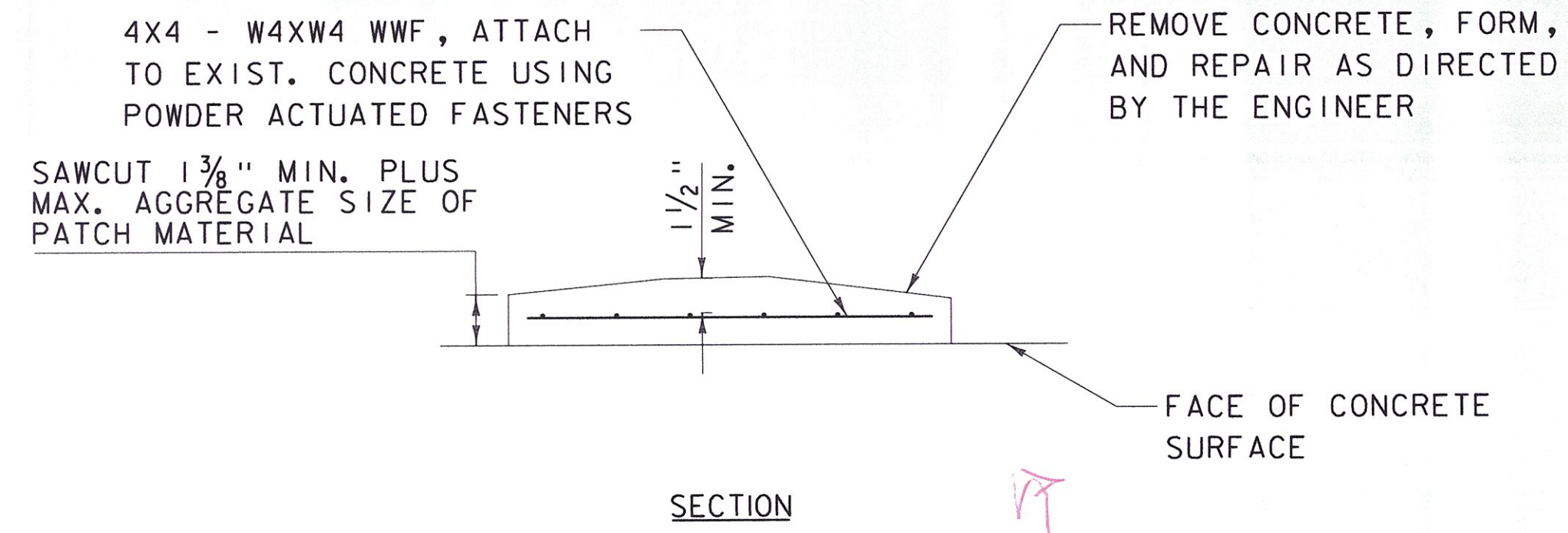
= APPROX. DETERIORATED OR SPALLED CONCRETE AREA



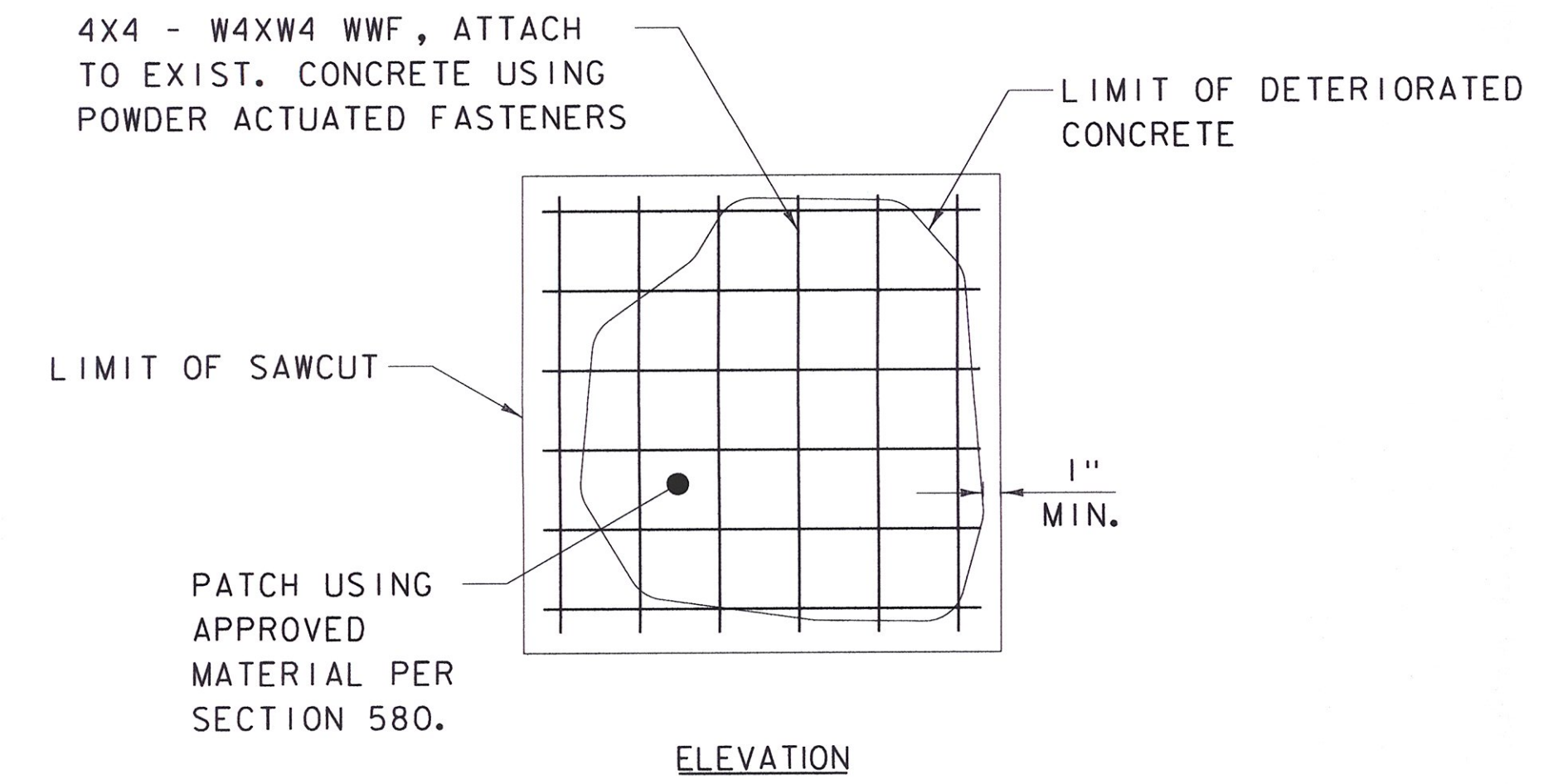
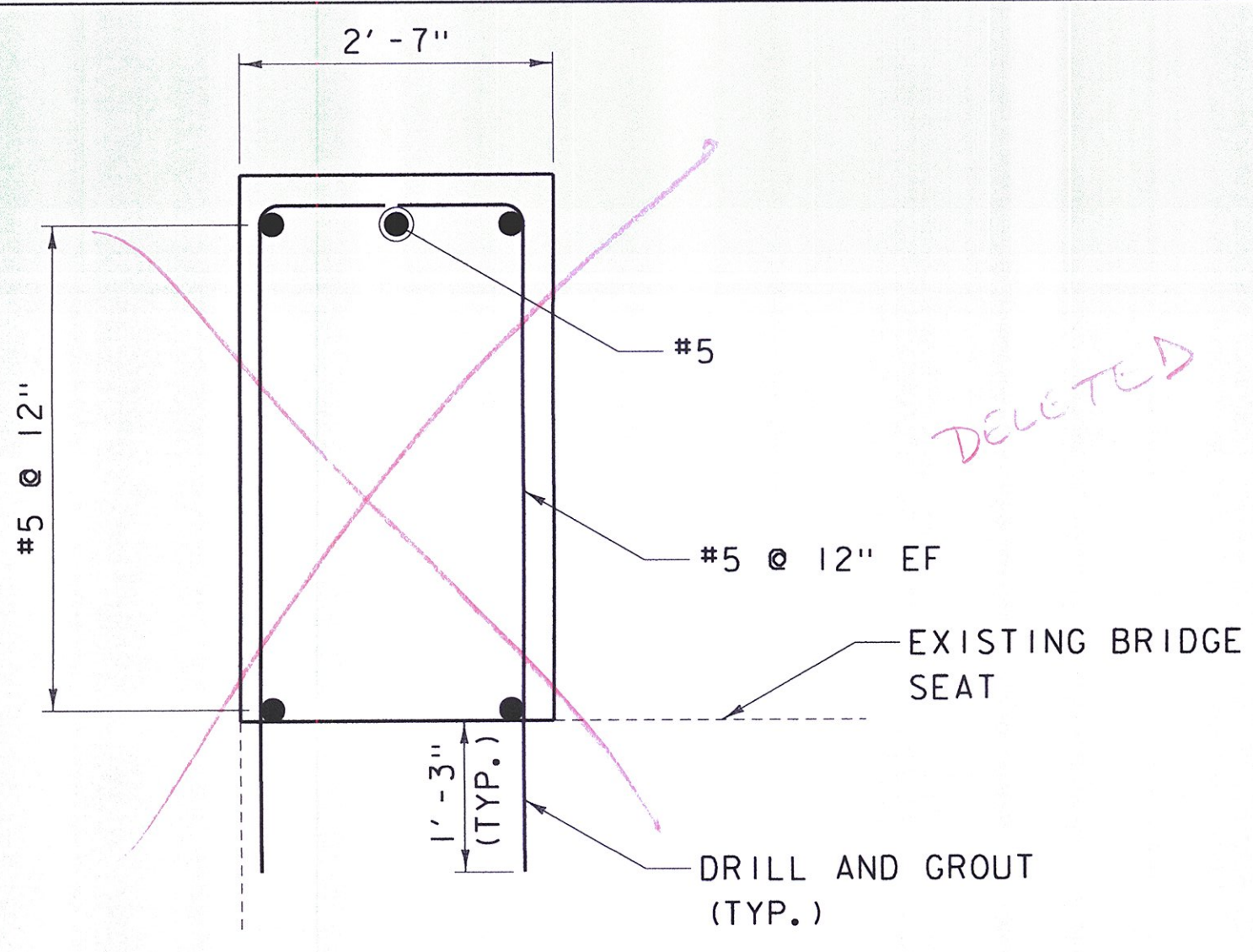
SECTION B-B
SCALE: 1/2" = 1'-0"

CL 1/12/2015

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

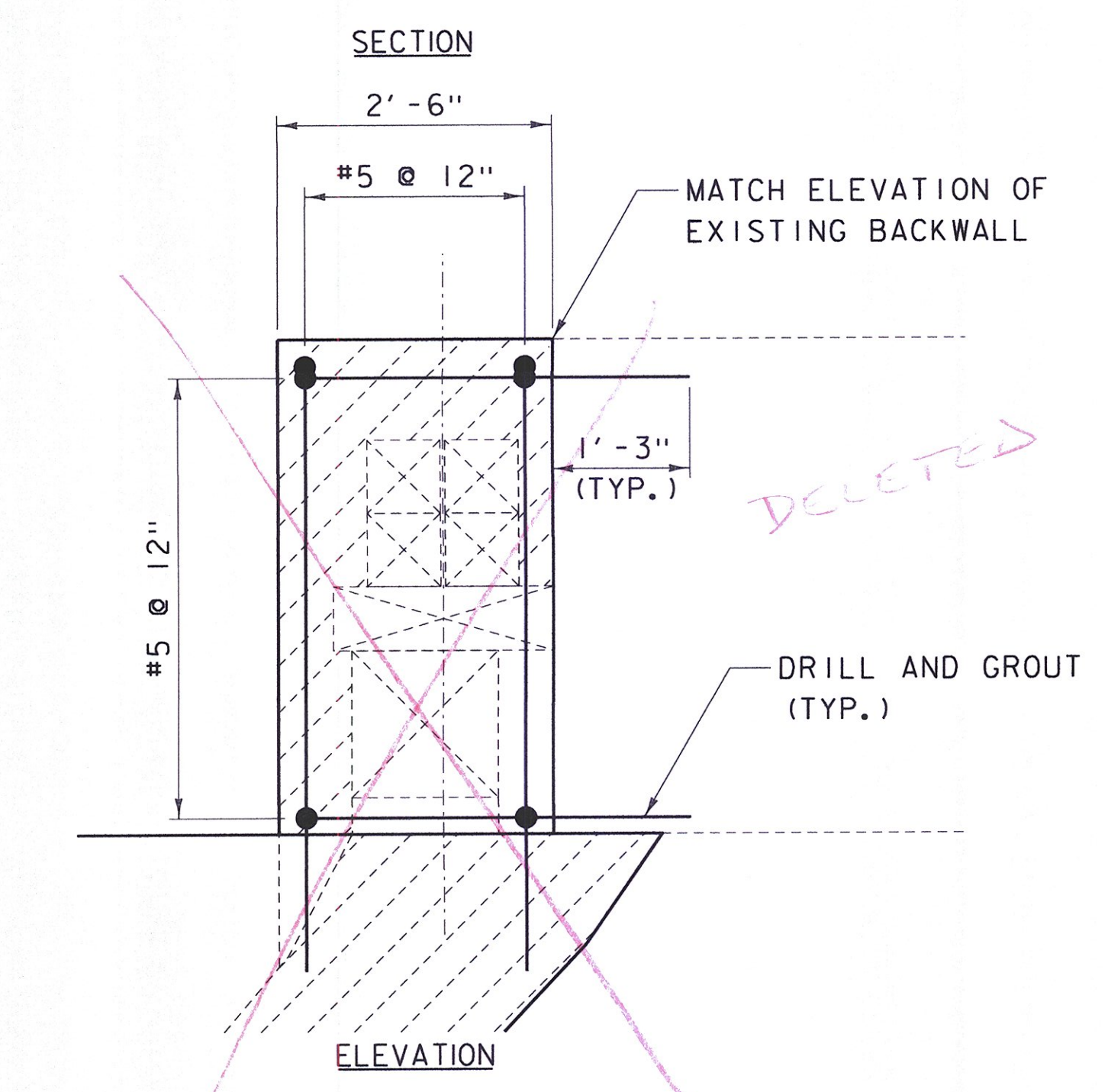


REPAIR w/ CLASS AA CONCRETE



CONCRETE REPAIR DETAIL
NOT TO SCALE

NOTE: COST FOR WWF SHALL BE INCLUDED UNDER CONCRETE REPAIR ITEM



BACKWALL REPLACEMENT DETAIL
NOT TO SCALE

CLK
12-1-15

DuBois & King Inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
6 GREEN TREE DRIVE
SOUTH BURLINGTON, VT 05403
TEL: (802) 878-7661
FAX: (866) 783-7101
www.dubois-king.com
RANDOLPH, VT
SPRINGFIELD, VT
BEDFORD, NH
LACONIA, NH
© Copyright 2014 Dubois & King Inc.
PROFESSIONAL SEAL

FINAL PLANS

TOWN OF WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED BRIDGE REHAB. & BRIDGE STREET STORMWATER IMPROVEMENTS

SHEET TITLE
SUBSTRUCTURE DETAILS

DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	D&K PROJECT #
RHD	620922
PROJ. ENG.	D&K ARCHIVE #
RHB	620922

SHEET NUMBER

20

SHEET 20 OF 30

i:\620922 - Waitsfield\DESIGN\CADD FILES\620922-50.dgn

DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

PLOTTED 12/30/2014

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHKD

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

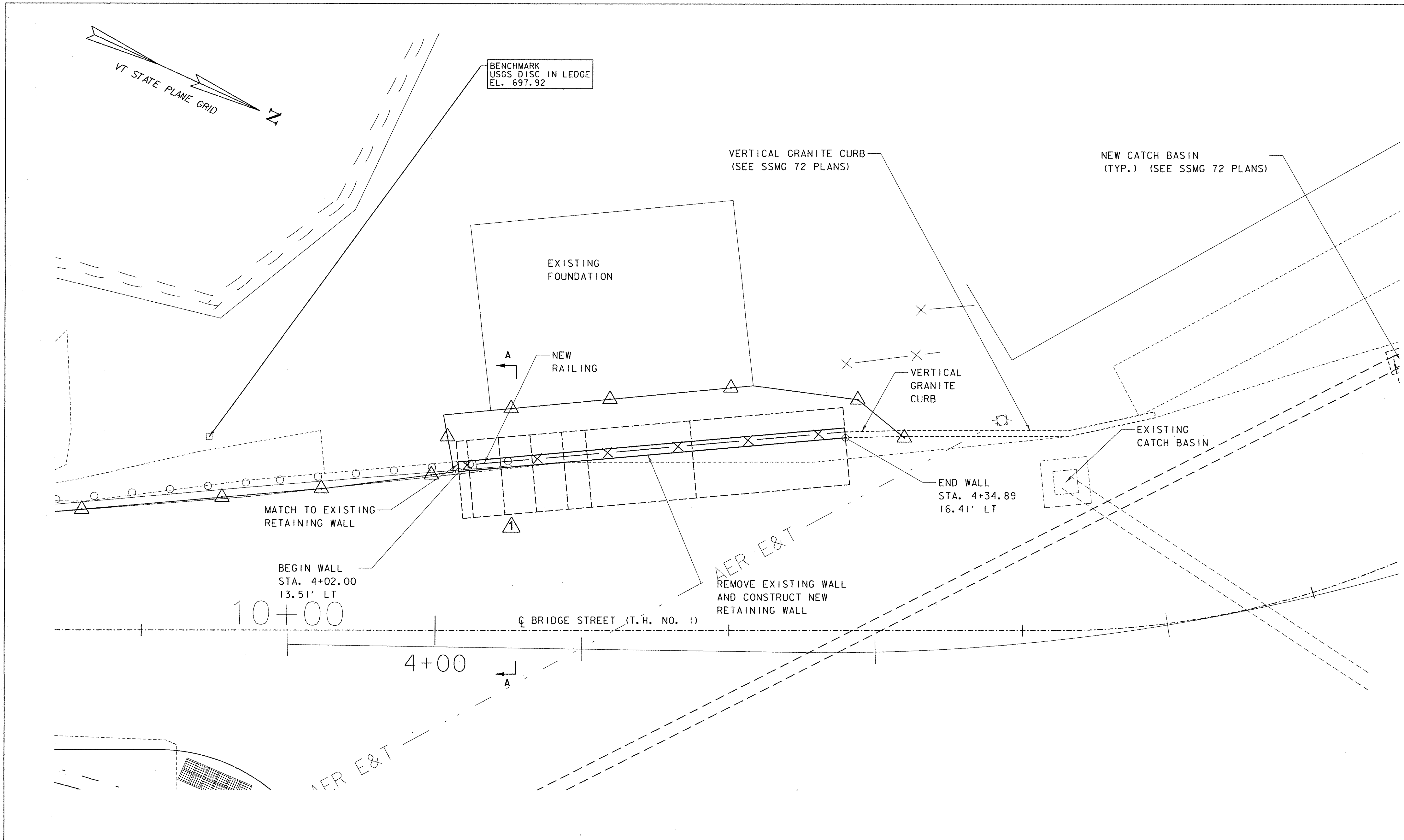
VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
**BRIDGE STREET
NORTHWEST
RETAINING WALL -
LAYOUT SHEET**

DRAWN BY RHB/JDG	DATE DEC. 2014
CHECKED BY EPD	D&K PROJECT # 620922
PROJ. ENG. RHB	D&K ARCHIVE # 620922

SHEET NUMBER

21



LAYOUT
SCALE 1/4" = 1'-0"
1 0 2 4 6

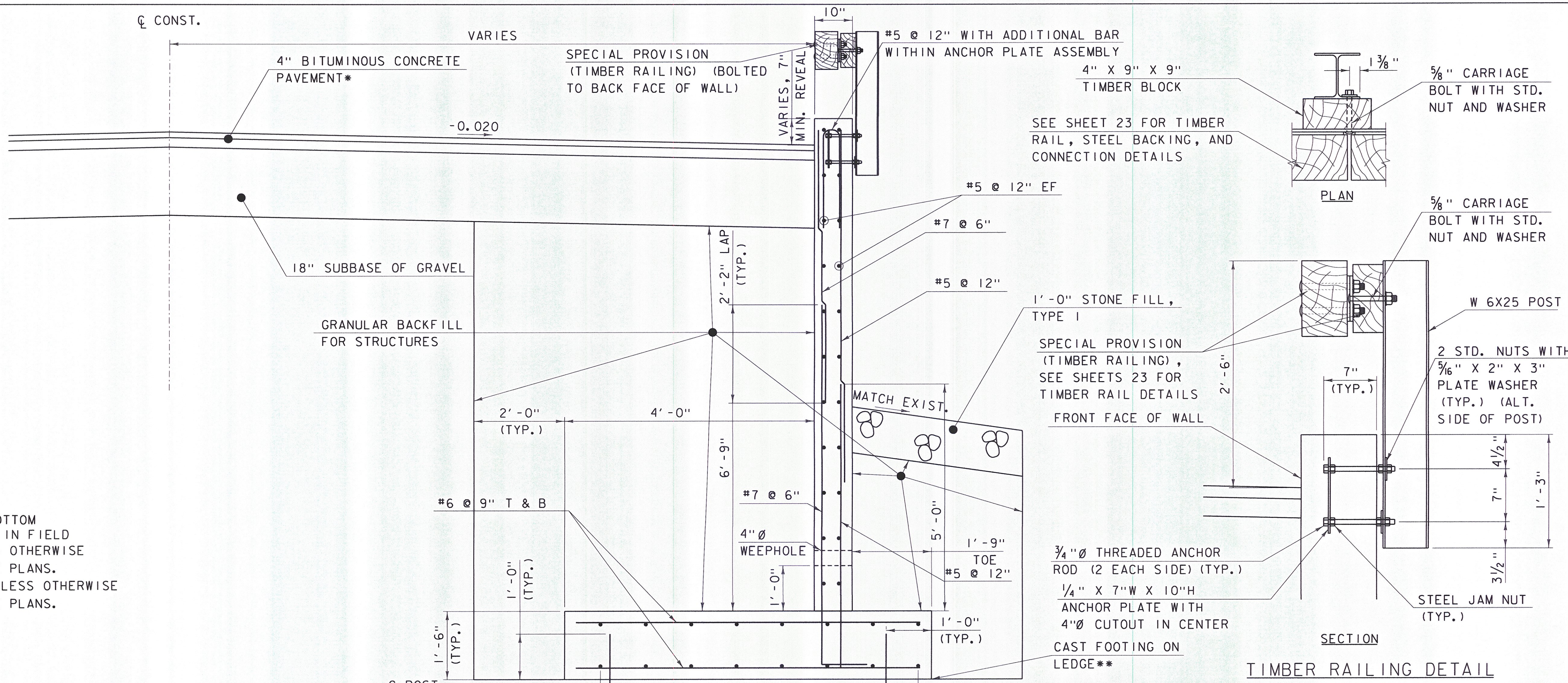
DATUM
VERTICAL NAVD 88
HORIZONTAL NAD 83 (GPS)

I:\620922 - Waitsfield\DESIGN\CADD FILES\620922 - WALL\BRIDGE NEW.dgn

* 1 1/2" TYPE IV
OVER 2 1/2" TYPE II

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
T & B = TOP & BOTTOM
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.



TIMBER RAILING DETAIL
NOT TO SCALE

NOTES: GALVANIZED POSTS & PRESSURE TREATED RAILS.
1. TIMBER RAILING AND POSTS SHALL BE PAINTED TO MATCH ADJOINING EXISTING TIMBER RAIL. PAYMENT SHALL BE MADE INCIDENTAL TO ITEM 900.640, "SPECIAL PROVISION (TIMBER RAILING)".
2. POSTS SHALL BE VERTICAL.

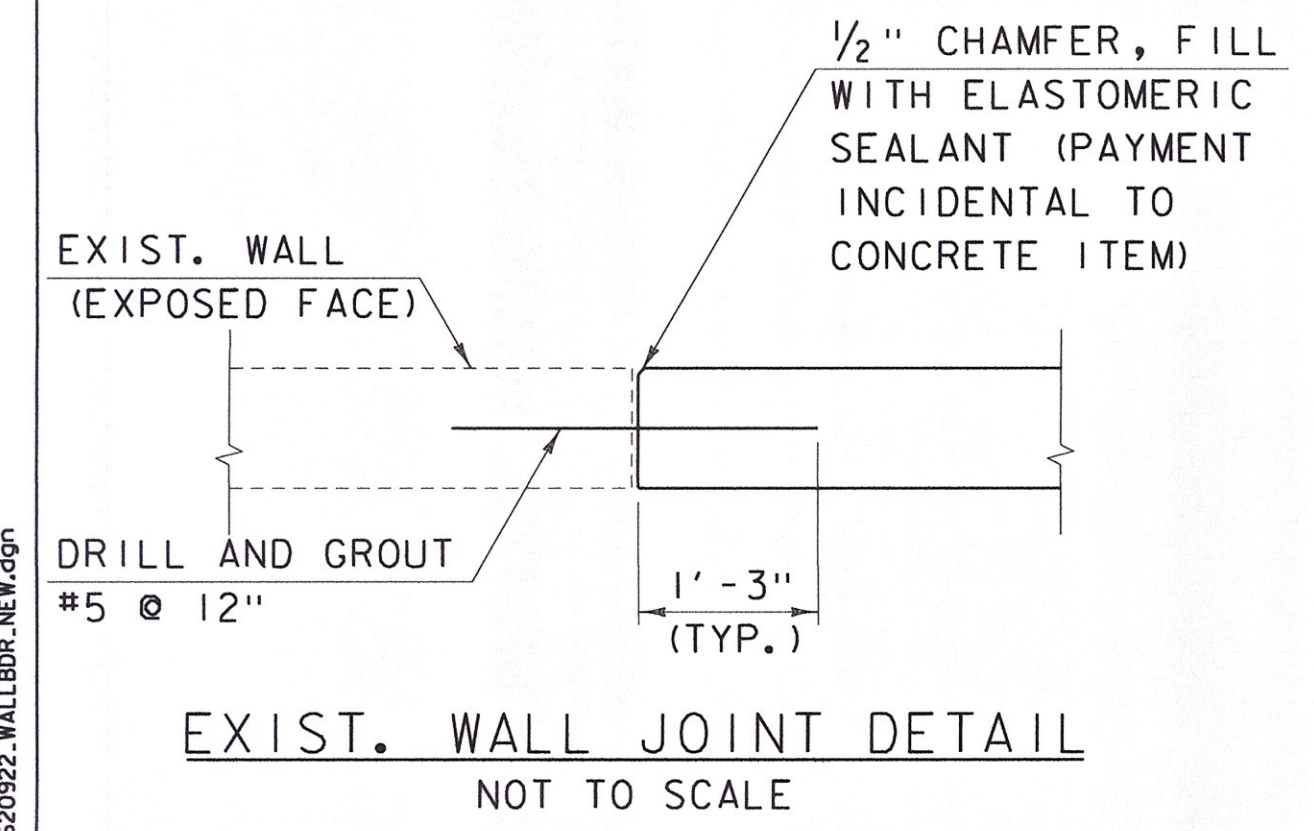
STA. 4+02.00, 13.51' LT
EL. 699.98

MATCH TO EXISTING WALL,
SEE EXIST. WALL JOINT
DETAIL, THIS SHEET

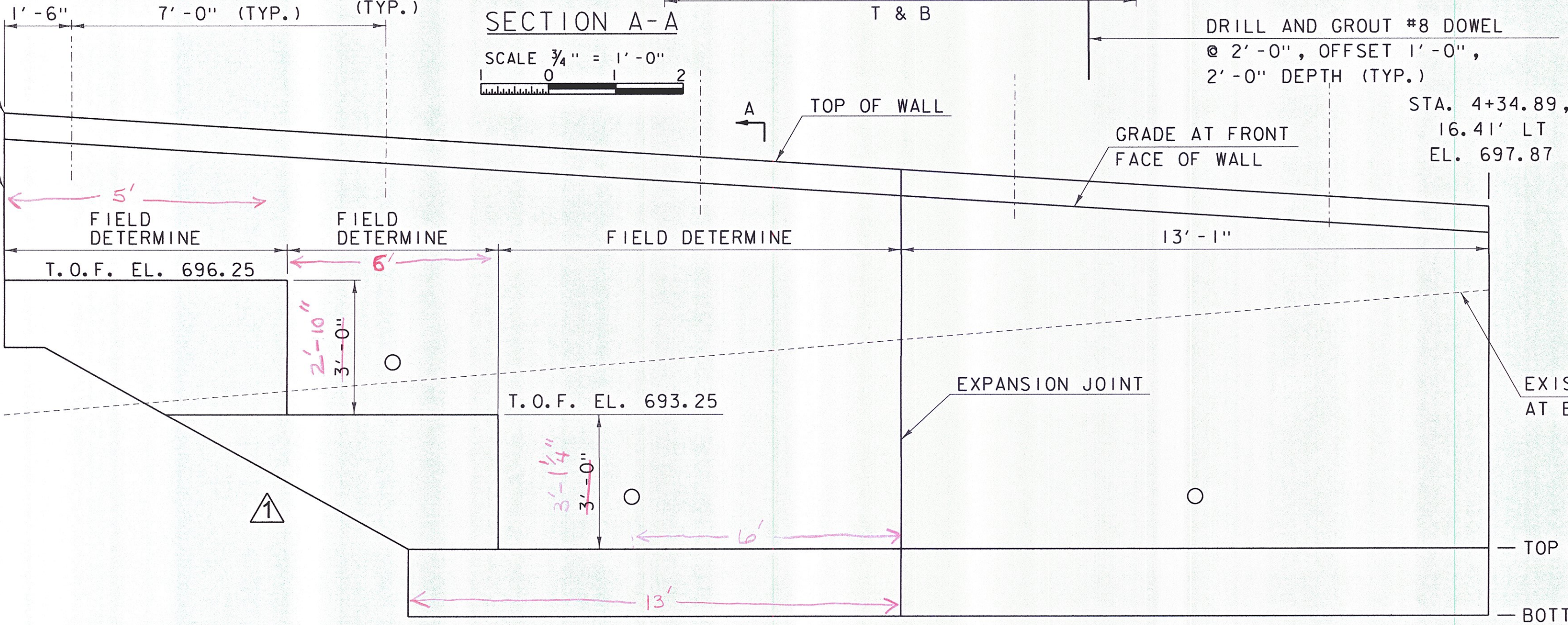
SECTION A-A
SCALE 3/4" = 1'-0"

DRILL AND GROUT #8 DOWEL
@ 2'-0", OFFSET 1'-0",
2'-0" DEPTH (TYP.)

STA. 4+34.89,
16.41' LT
EL. 697.87



EXIST. WALL JOINT DETAIL
NOT TO SCALE



WALL ELEVATION
SCALE 1/2" = 1'-0"

** FOOTING TO BE FOUNDED ON COMPETENT BEDROCK OR 6'-0" BELOW GRADE. THE TOP AND BOTTOM OF FOOTING ELEVATIONS PROVIDED ARE BASED ON 6'-0" BELOW GRADE. SEE SHEET 4, FOUNDATION NOTES IF LEDGE IS ENCOUNTERED PRIOR TO 6'-0" BELOW GRADE AND AS TO WHETHER A SUBFOOTING IS REQUIRED. IF LEDGE IS NOT ENCOUNTERED, THE BOTTOM OF FOOTING ELEVATIONS PROVIDED SHALL BE USED AND THE FOOTING SHALL BE CONSTRUCTED ON 1'-0" DEPTH OF GRANULAR BACKFILL FOR STRUCTURES AND DOWELS OMITTED. ALL EXCAVATION FOR THE BRIDGE ST. RETAINING WALL SHALL BE PAID FOR UNDER ITEM 204.25, "STRUCTURE EXCAVATION".

NOTE: REINFORCING STEEL AND RAILING NOT SHOWN IN ELEVATION VIEW FOR CLARITY.

DuBois & King Inc.
ENGINEERING • PLANNING •
MANAGEMENT • DEVELOPMENT
6 GREEN TREE DRIVE
SOUTH BURLINGTON, VT 05403
TEL: (802) 878-7661
FAX: (866) 763-7101
www.dubois-king.com
RANDOLPH, VT
SPRINGFIELD, VT
BEDFORD, NH
LACONIA, NH
© Copyright 2014 DuBois & King Inc.
PROFESSIONAL SEAL

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHKD
1	7/31/15	WALL UPDATES	PCB	EPD

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
BRIDGE STREET
NORTHWEST
RETAINING WALL -
TYPICAL SECTION &
ELEVATION

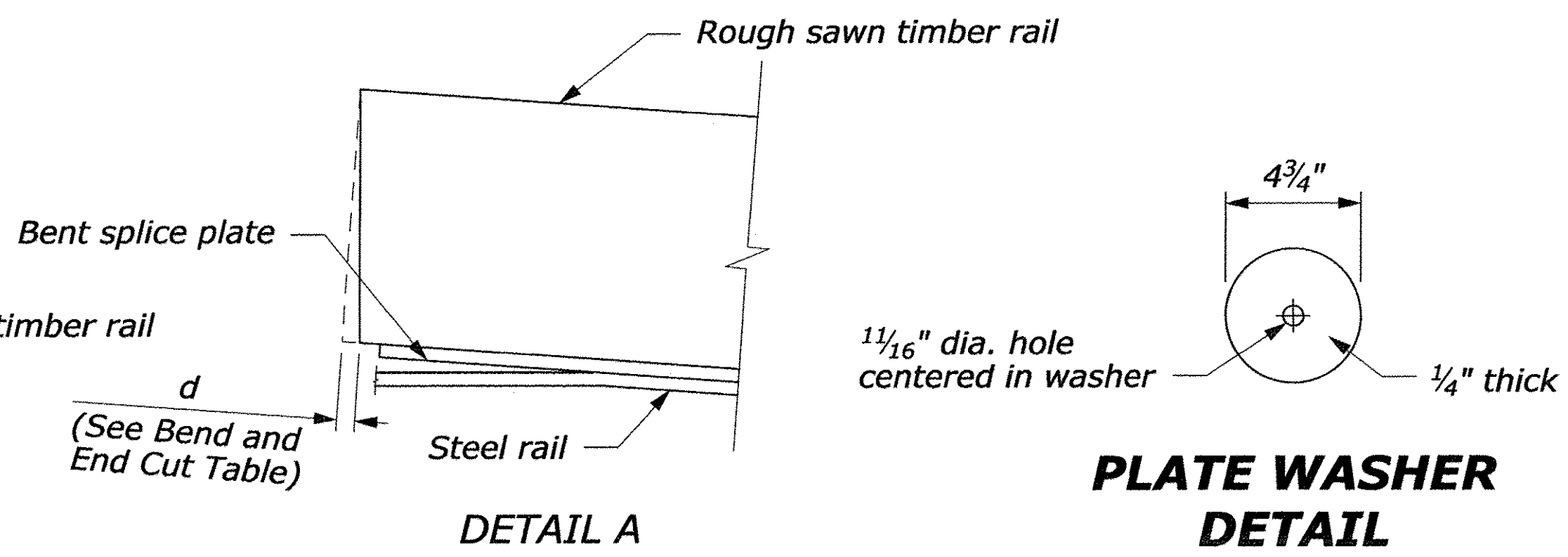
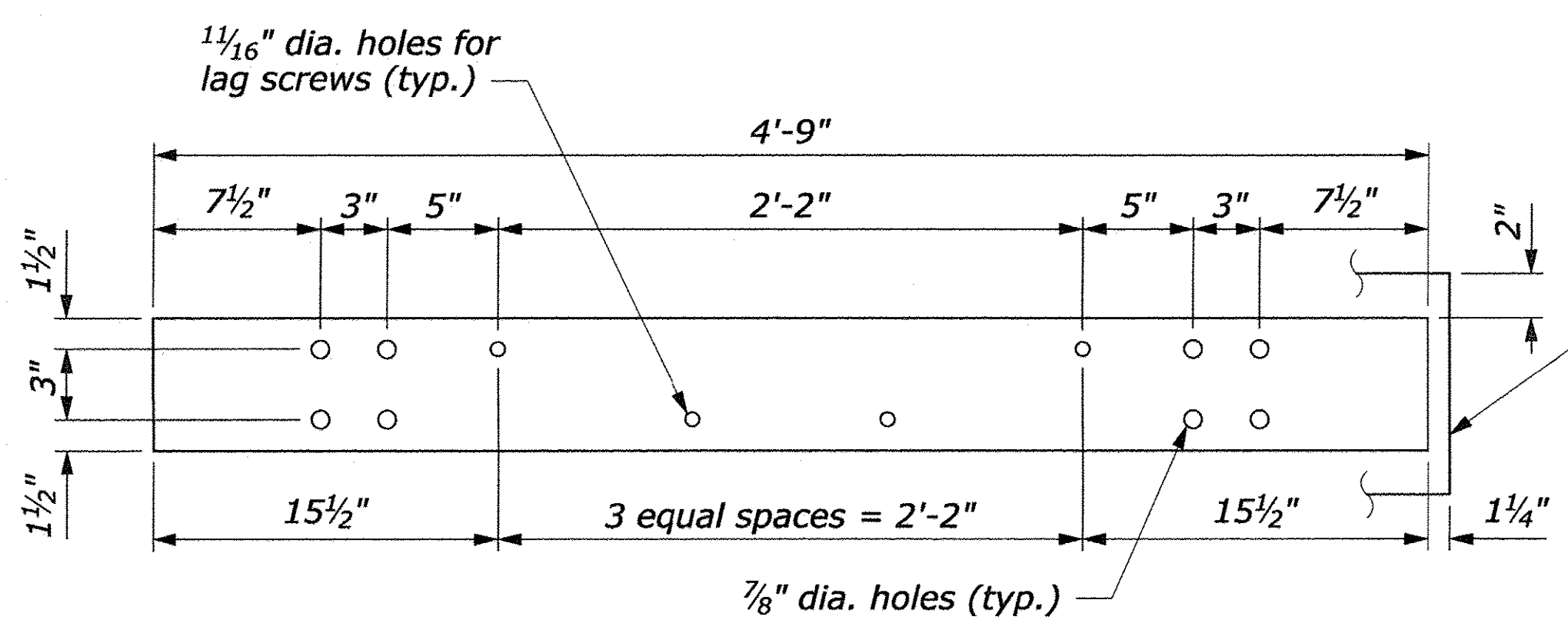
DRAWN BY	DATE
RHB/JDG	DEC. 2014
CHECKED BY	DKK PROJECT #
EPD	620922
PROJ. ENG.	DKK ARCHIVE #
RHB	620922

SHEET NUMBER

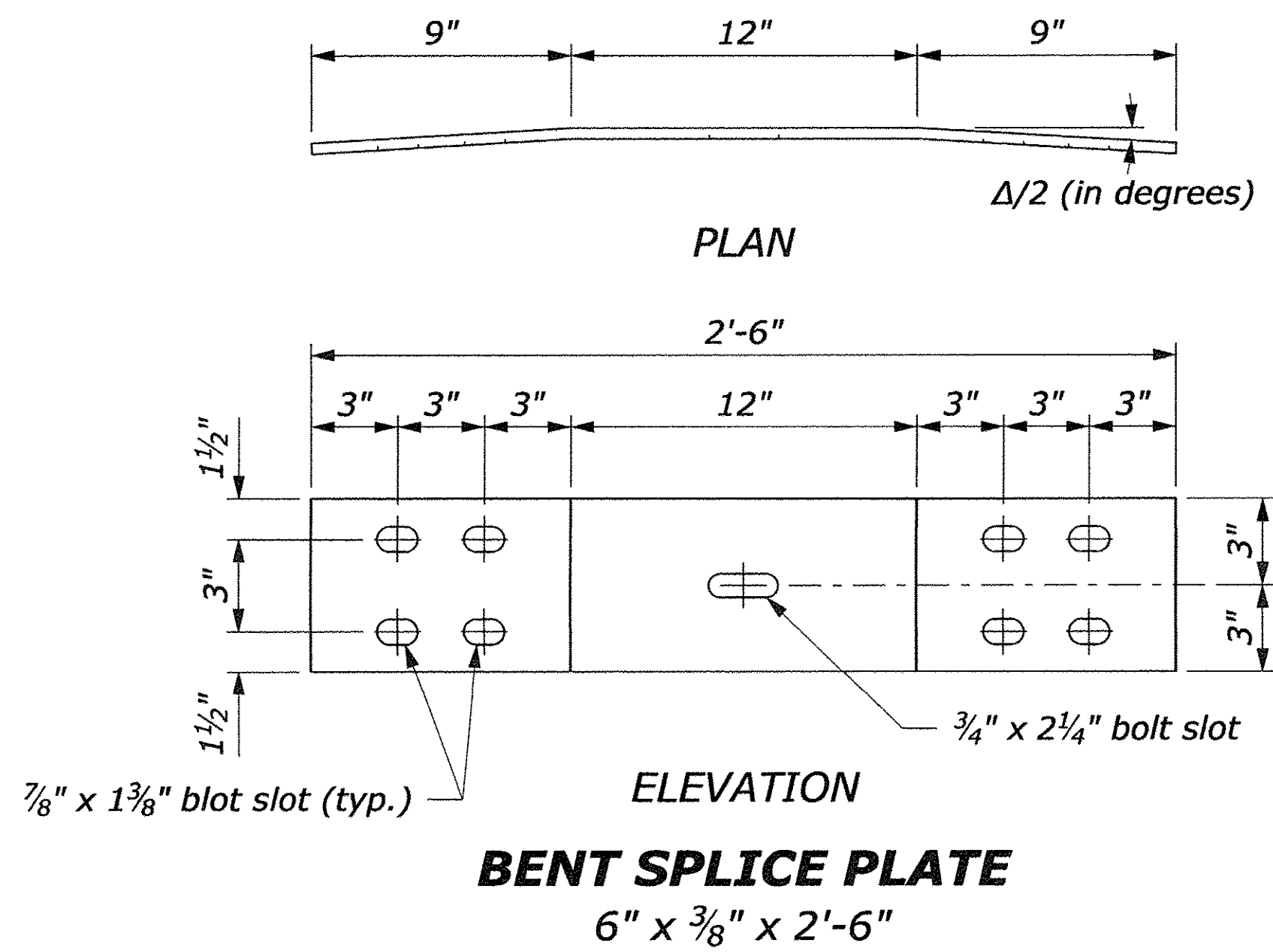
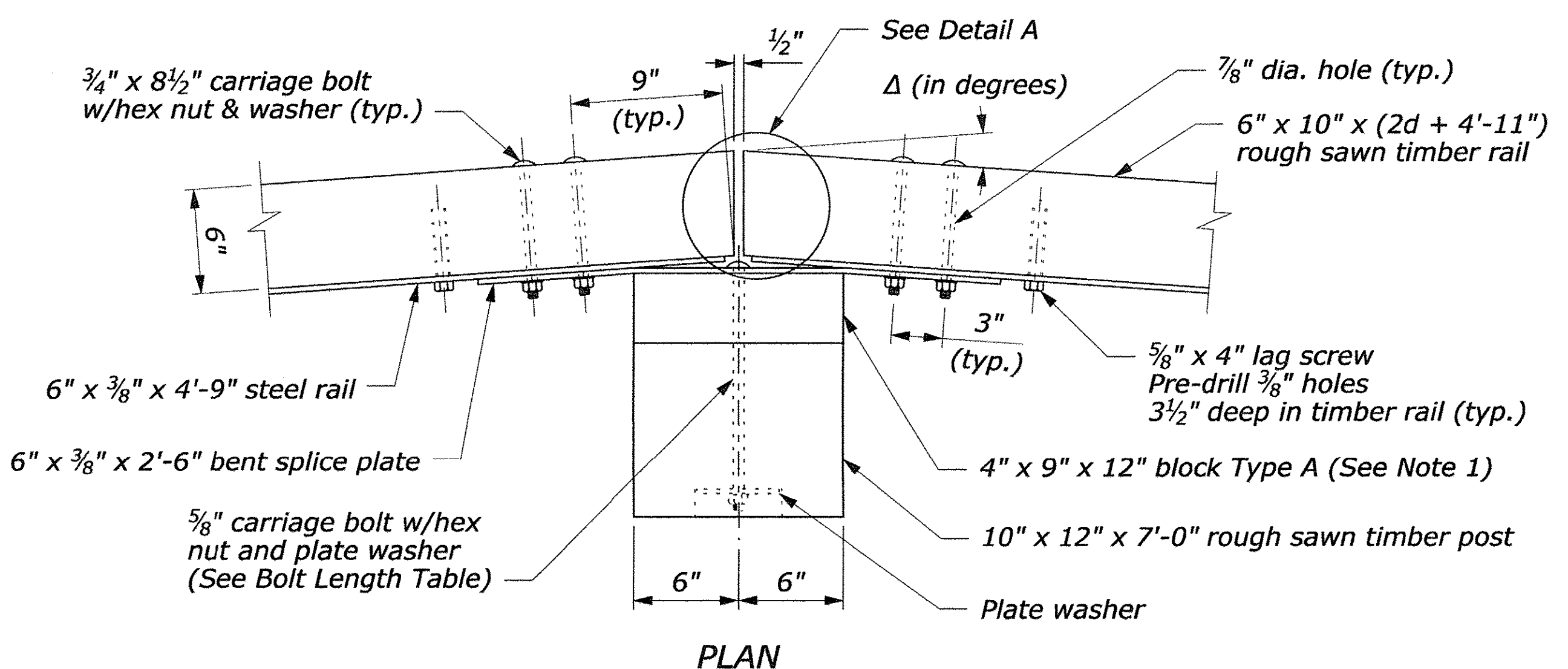
22

I:\620922 - WOLFSTOWN\DESIGN\CADD FILES\620922 - WALL ELEVATION.dgn

STATE	PROJECT	SHEET NUMBER



- NOTE:**
1. Use the Type A, blocked-out, system or the Type B, non-blocked-out, system as specified.
 2. Use the weathering steel for all structural steel and fastener hardware.
 3. Furnish shop bent splice plates. Use the minimum bend angle shown in the table below.
 4. See Sheet 2 of 2 for Plan View Layout.

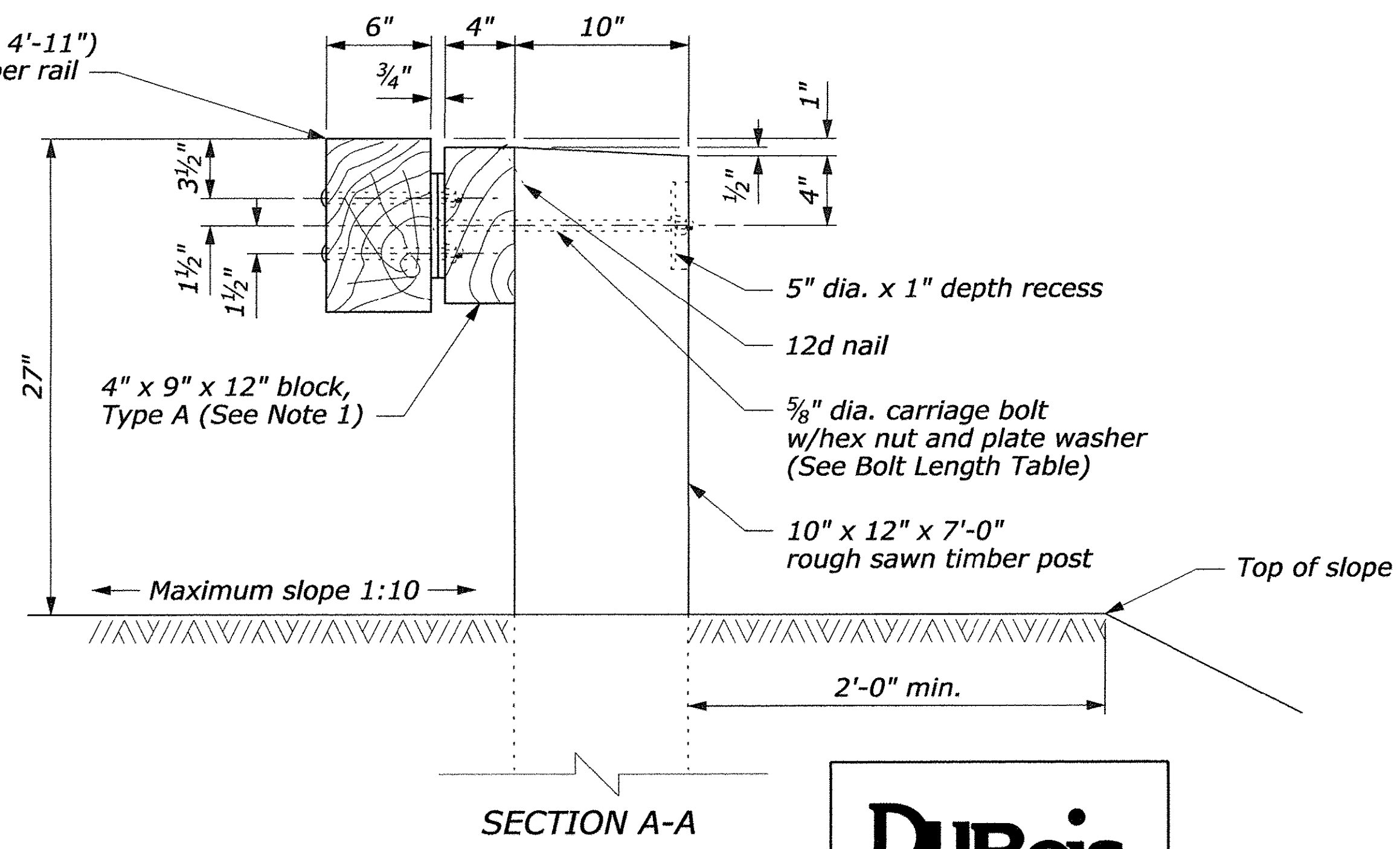
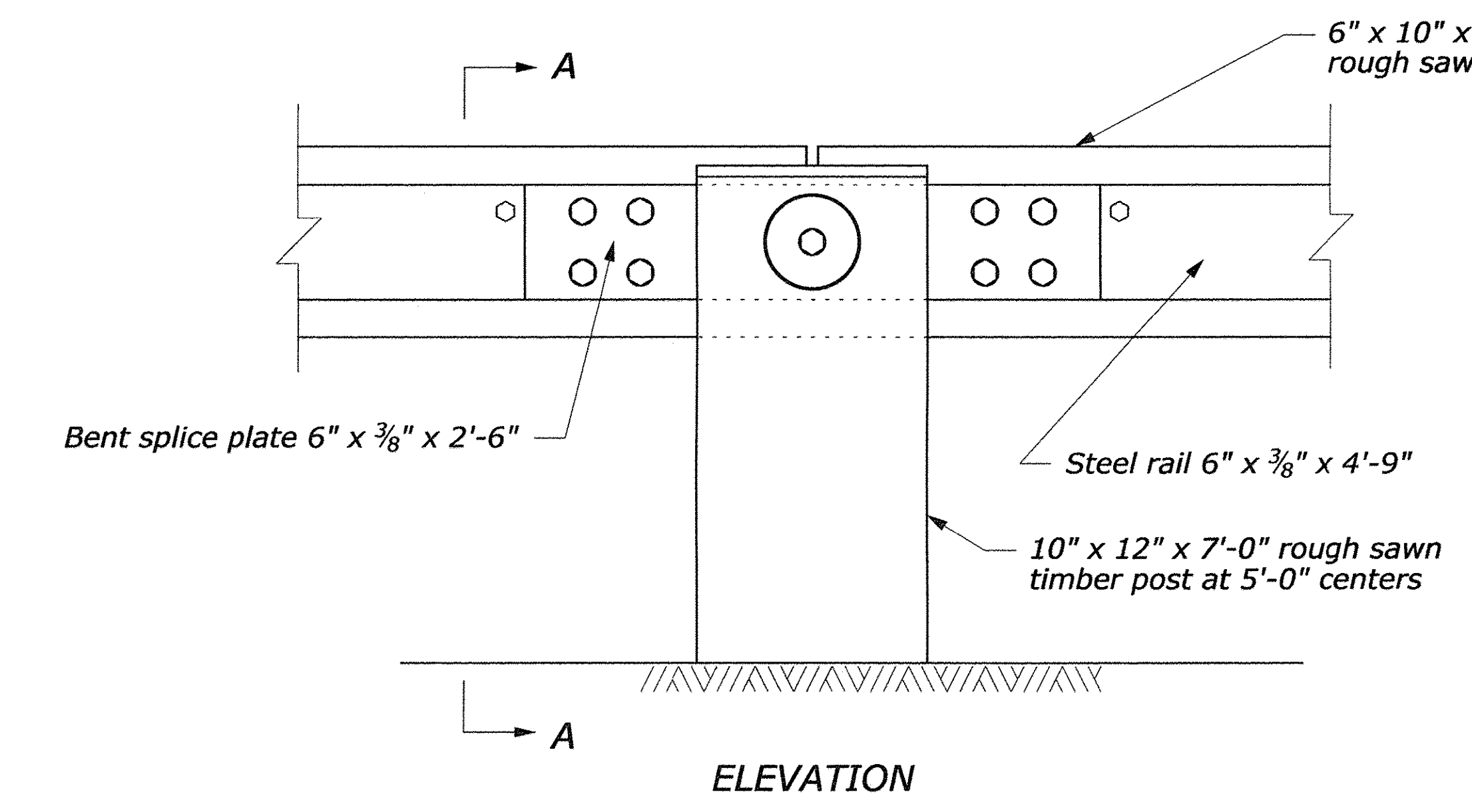


BEND AND END CUT TABLE

Radius R ft	Δ/2 degrees	d in
20	7.18	3/4
25	5.74	5/8
30	4.78	1/2
35	4.10	7/16
40	3.58	3/8
45	3.18	1/3
50	2.87	5/16
55	2.61	1/4
60	2.39	1/4
65	2.20	1/4
70	2.05	1/4
over 70	flat	0

BOLT LENGTH TABLE

Type A (Block-out)	Type B (No Block-out)
15"	11"



DuBois & King
INC.

SHEET 23 OF 30

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

U.S. CUSTOMARY STANDARD
**STEEL-BACKED TIMBER GUARDRAIL
AROUND CIRCULAR AND BELOW
70 FOOT RADIUS AND BELOW**
Sheet 1 of 2

STANDARD APPROVED FOR USE 6/2005
REVISED:

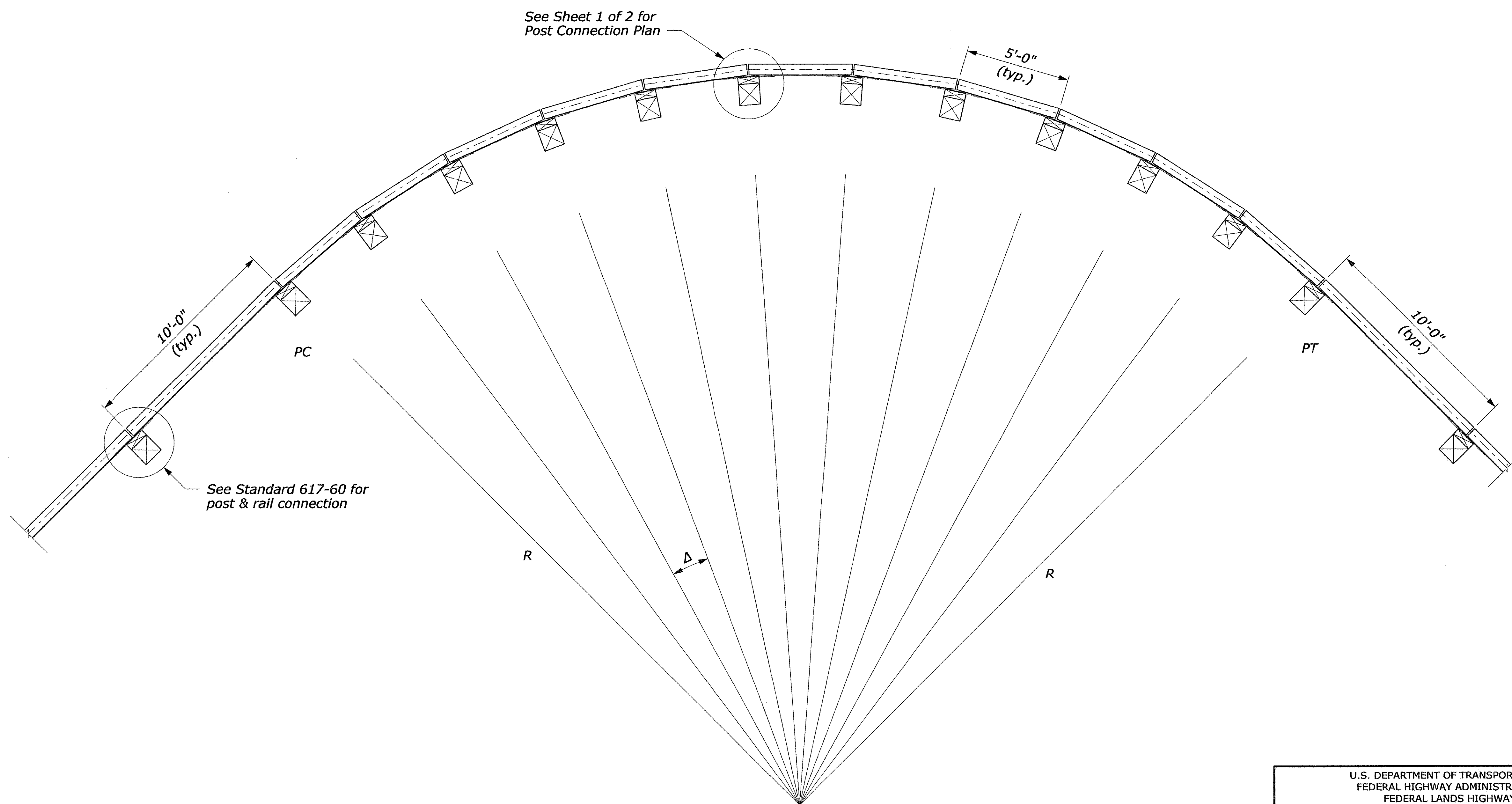
STANDARD
617-63

2 September 2009 1:39 PM H:\StanDraw\st61763.dgn [USC]

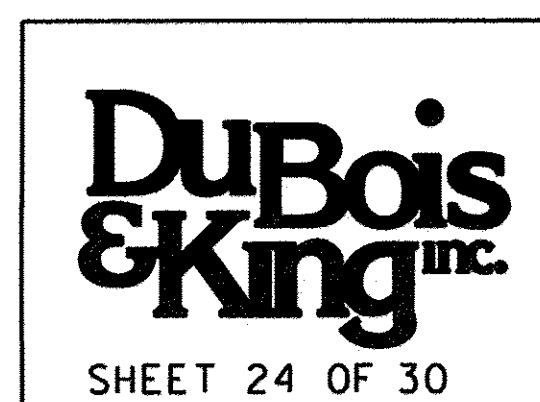
NO SCALE

NOTE:

1. Δ is the central angle which subtends a 5'-0" chord.
2. R is measured from the center of the circle to the back surface of the rough sawn timber rail.



PLAN VIEW LAYOUT



NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION FEDERAL LANDS HIGHWAY	
U.S. CUSTOMARY STANDARD STEEL-BACKED TIMBER GUARDRAIL AROUND CIRCULAR CURVES 70 FOOT RADIUS AND BELOW Sheet 2 of 2	
STANDARD APPROVED FOR USE 6/2005	STANDARD 617-63
REVISED:	

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHK'D

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

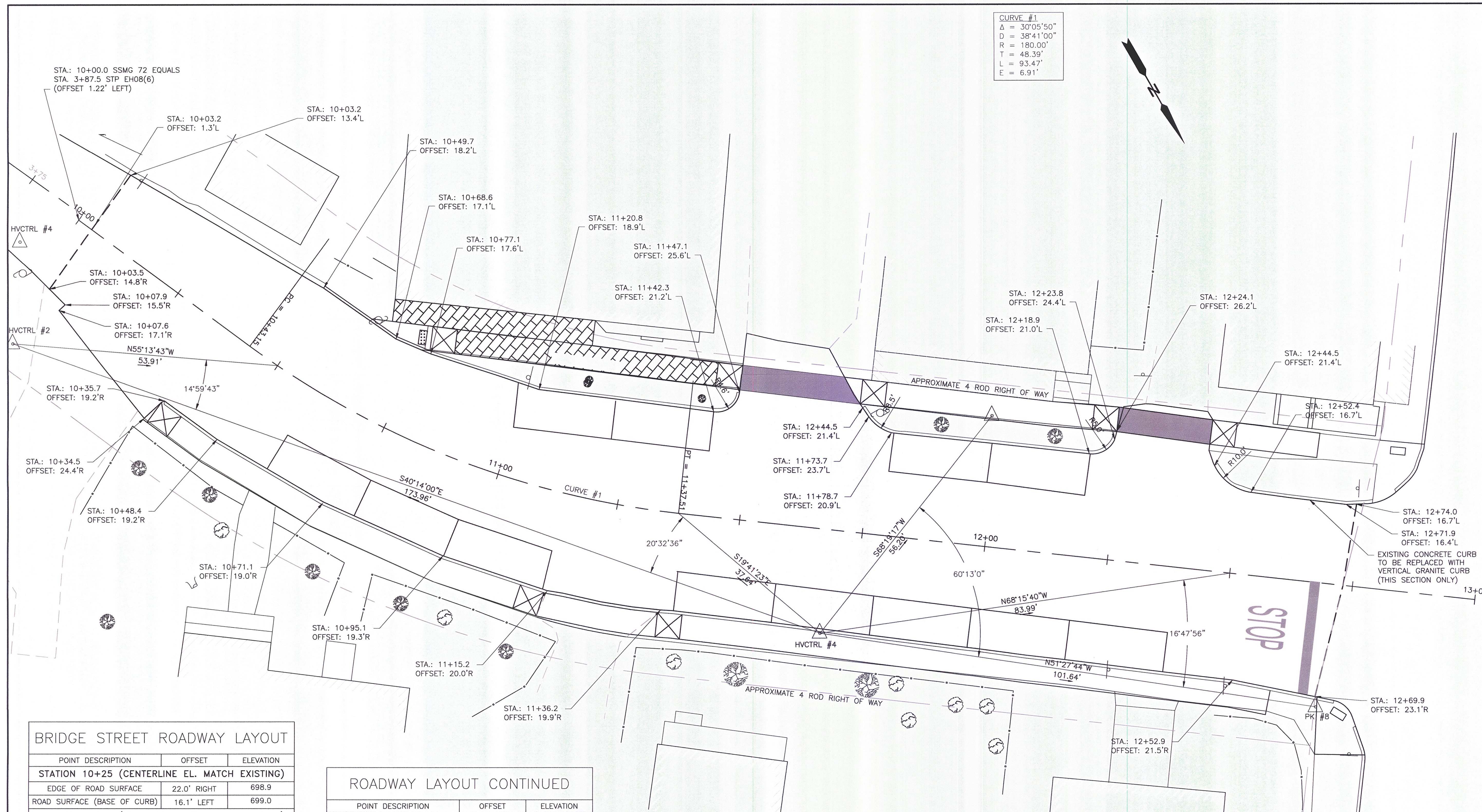
ROADWAY AND
BASELINE LAYOUT
PLAN

DRAWN BY	DATE
ZDC	MAY 2014
CHECKED BY	D&K PROJECT #
HLV	121447
PROJ. ENG.	D&K ARCHIVE #
HLV	

SHEET NUMBER

26

SHEET 26 OF 30



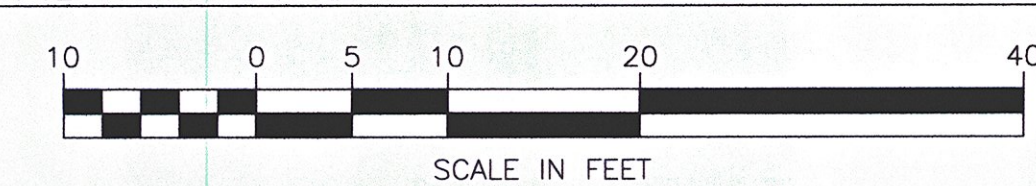
BRIDGE STREET ROADWAY LAYOUT

POINT DESCRIPTION	OFFSET	ELEVATION
STATION 10+25 (CENTERLINE EL. MATCH EXISTING)		
EDGE OF ROAD SURFACE	22.0' RIGHT	698.9
ROAD SURFACE (BASE OF CURB)	16.1' LEFT	699.0
STATION 10+50 (CENTERLINE EL. MATCH EXISTING)		
ROAD SURFACE (BASE OF CURB)	19.1' RIGHT	697.2
ROAD SURFACE (BASE OF CURB)	18.2' LEFT	697.3
STATION 10+75 (CENTERLINE EL. 696.84) Δ		
ROAD SURFACE (END OF CURB)	17.5' LEFT	696.5
ROAD SURFACE (BASE OF CURB)	18.8' RIGHT	696.4
STATION 11+00 (CENTERLINE EL. 696.71) Δ		
ROAD SURFACE (BASE OF CURB)	19.0' LEFT	696.2
ROAD SURFACE (BASE OF CURB)	19.2' RIGHT	696.2
STATION 11+25 (CENTERLINE EL. 696.96) Δ		
ROAD SURFACE (BASE OF CURB)	21.2' LEFT	696.3
EDGE OF ROAD SURFACE	20.0' RIGHT	696.3
STATION 11+50 (CENTERLINE EL. 697.21) Δ		
EDGE OF ROAD SURFACE	37.4' LEFT	697.5
ROAD SURFACE (BASE OF CURB)	19.9' RIGHT	696.6

ROADWAY LAYOUT CONTINUED

POINT DESCRIPTION	OFFSET	ELEVATION
STATION 11+75 (CENTERLINE EL. 697.46) Δ		
ROAD SURFACE (BASE OF CURB)	22.5' LEFT	697.3
ROAD SURFACE (BASE OF CURB)	20.3' RIGHT	696.7
STATION 12+00 (CENTERLINE EL. 697.75) Δ		
ROAD SURFACE (BASE OF CURB)	21.0' LEFT	697.5
ROAD SURFACE (BASE OF CURB)	20.7' RIGHT	696.8
STATION 12+25 (CENTERLINE EL. 698.24) Δ		
EDGE OF ROAD SURFACE	31.3' LEFT	698.1
ROAD SURFACE (BASE OF CURB)	21.1' RIGHT	697.3
STATION 12+50 (CENTERLINE EL. 698.94) Δ		
ROAD SURFACE (BASE OF CURB)	17.2' LEFT	698.8
ROAD SURFACE (BASE OF CURB)	21.5' RIGHT	698.2
STATION 12+74 (CENTERLINE EL. 699.81) Δ		
ROAD SURFACE (BASE OF CURB)	16.7' LEFT	700.1
EDGE OF ROAD SURFACE	23.4' RIGHT	698.1

ROADWAY AND BASELINE LAYOUT PLAN



K:\121447 Waitsfield\dwg\121447_Layout.dwg 5/29/2015 2:25 PM

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	05/29/2015	PROFILE REVISIONS		

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

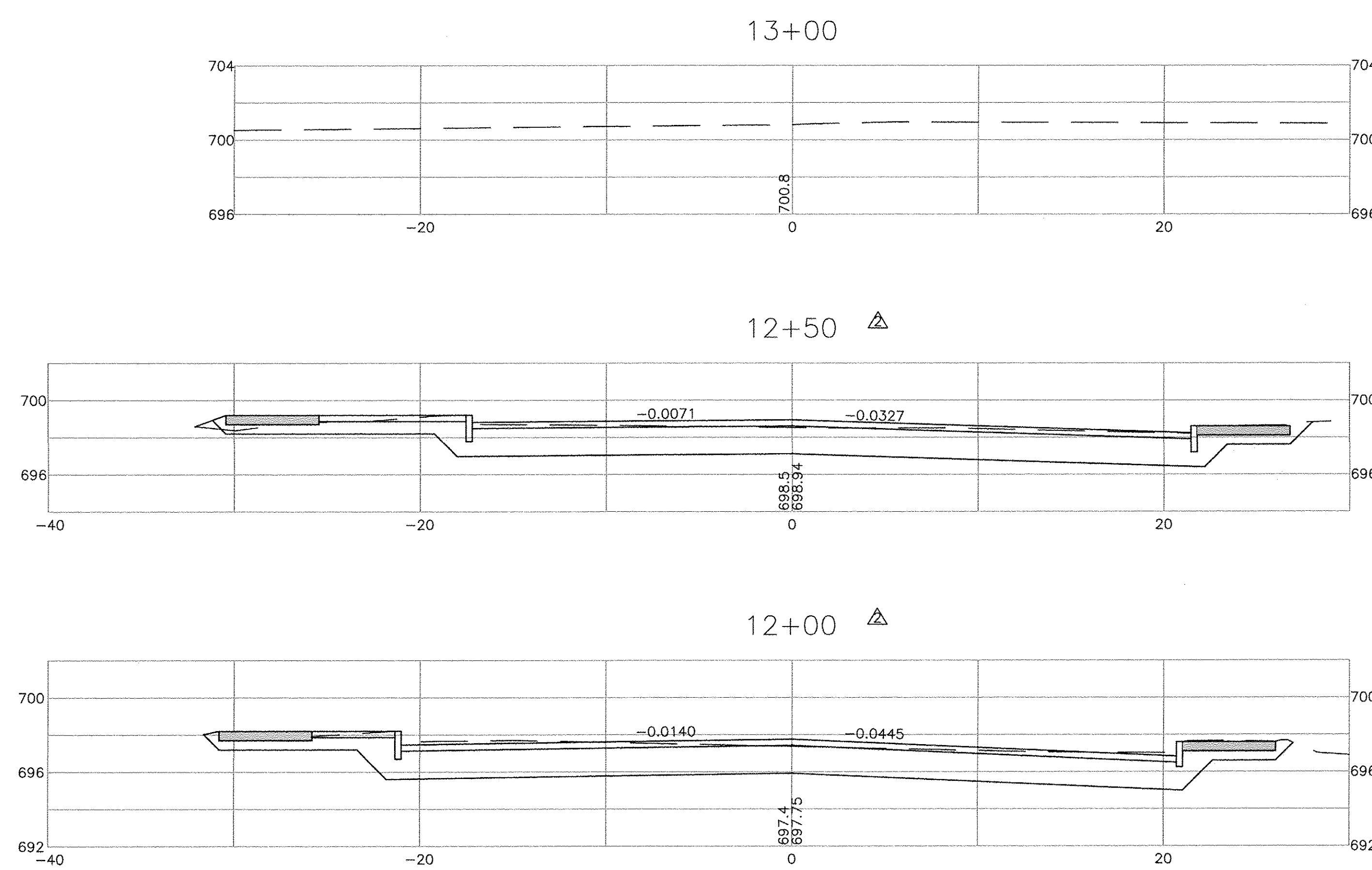
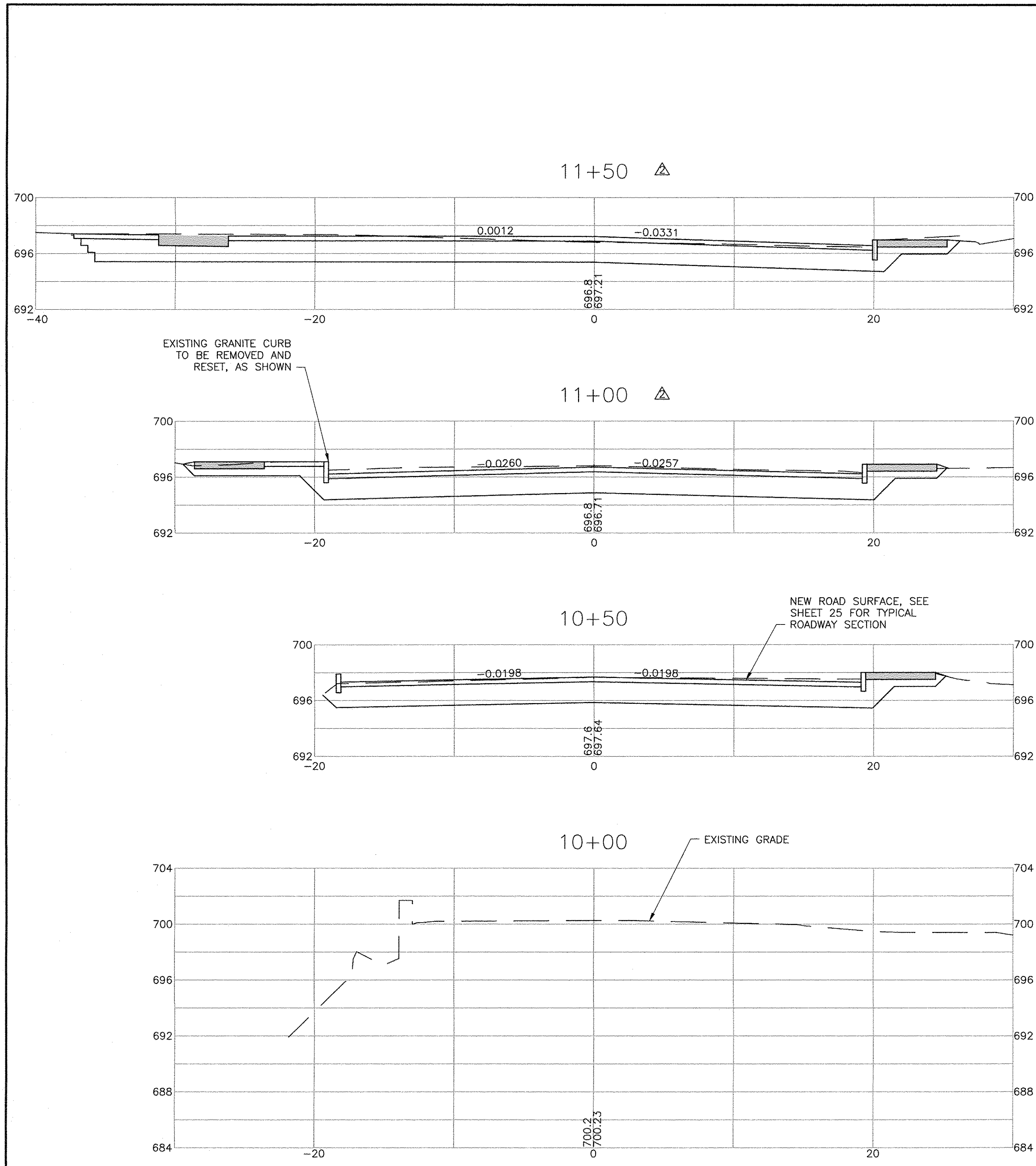
VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
ROADWAY CROSS
SECTIONS

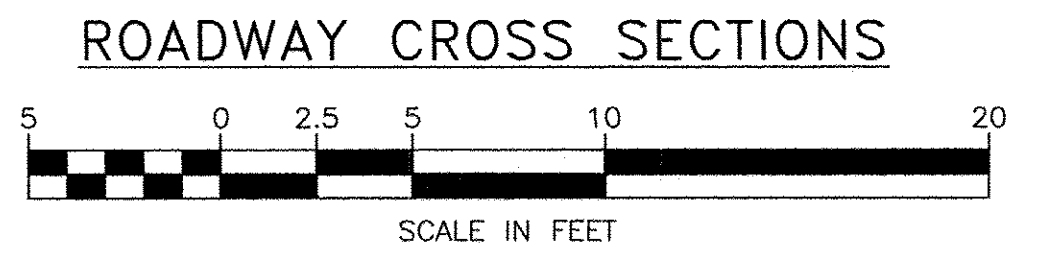
DRAWN BY	DATE
ZDC	MAY 2014
CHECKED BY	D&K PROJECT #
HLV	121447
PROJ. ENG.	D&K ARCHIVE #
HLV	

SHEET NUMBER

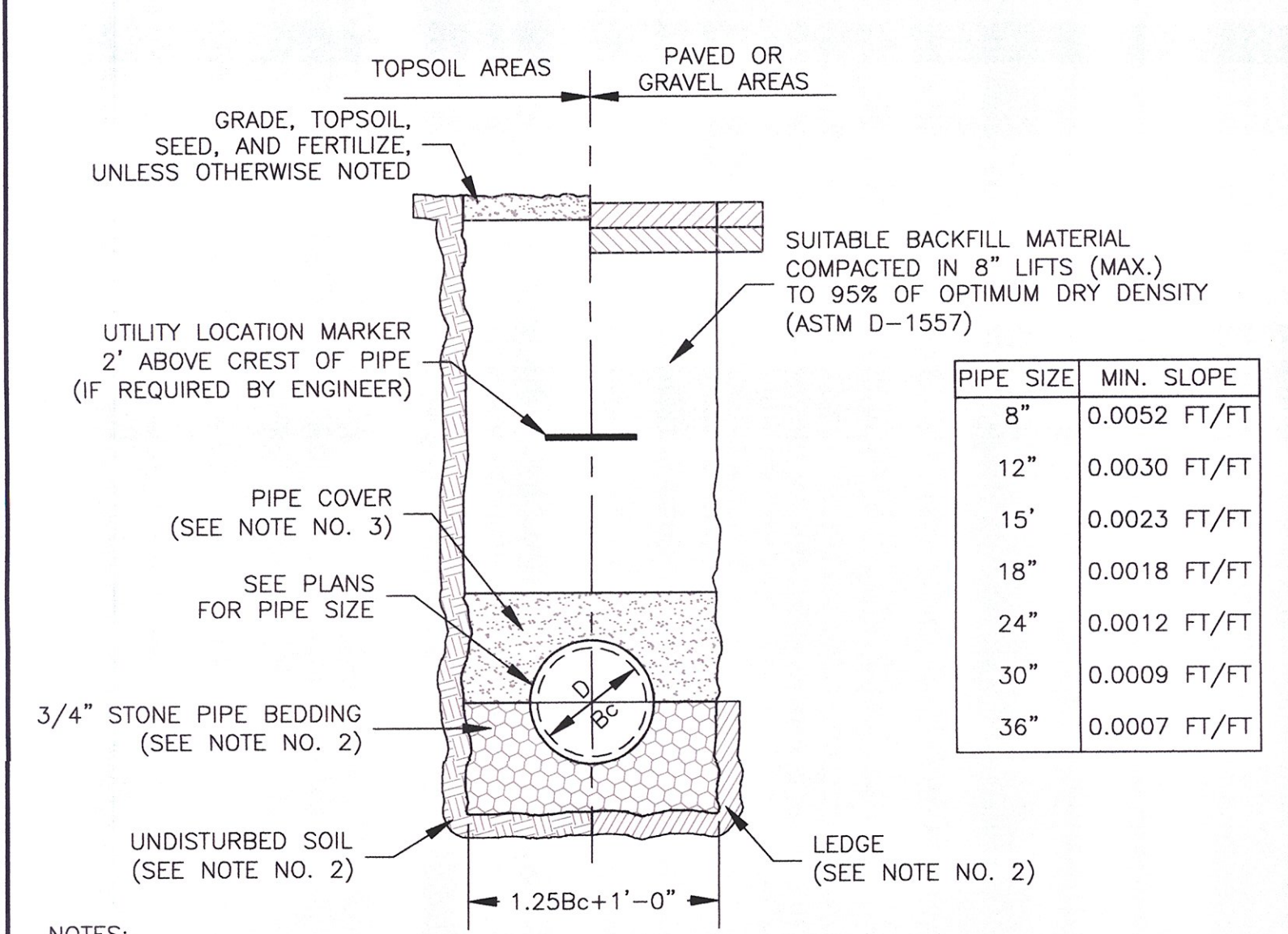
28



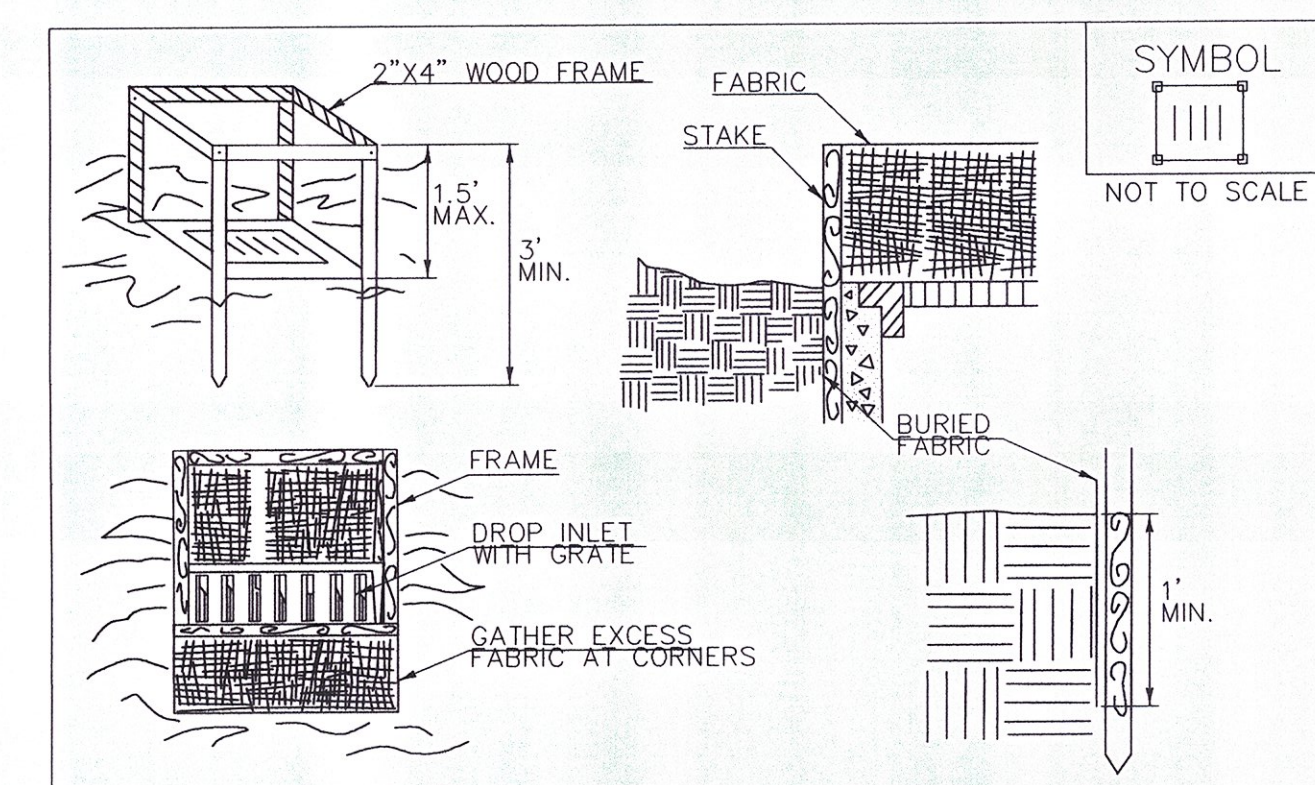
NOTE: FUTURE LIGHTING CONDUIT AND TRENCH NOT SHOWN ON CROSS SECTIONS.



I:\21447 Waitsfield\dwg\21447_DTL.dwg 5/12/2014 2:46 PM



PIPE SIZE	MIN. SLOPE
8"	0.0052 FT/FT
12"	0.0030 FT/FT
15"	0.0023 FT/FT
18"	0.0018 FT/FT
24"	0.0012 FT/FT
30"	0.0009 FT/FT
36"	0.0007 FT/FT



CONSTRUCTION SPECIFICATIONS

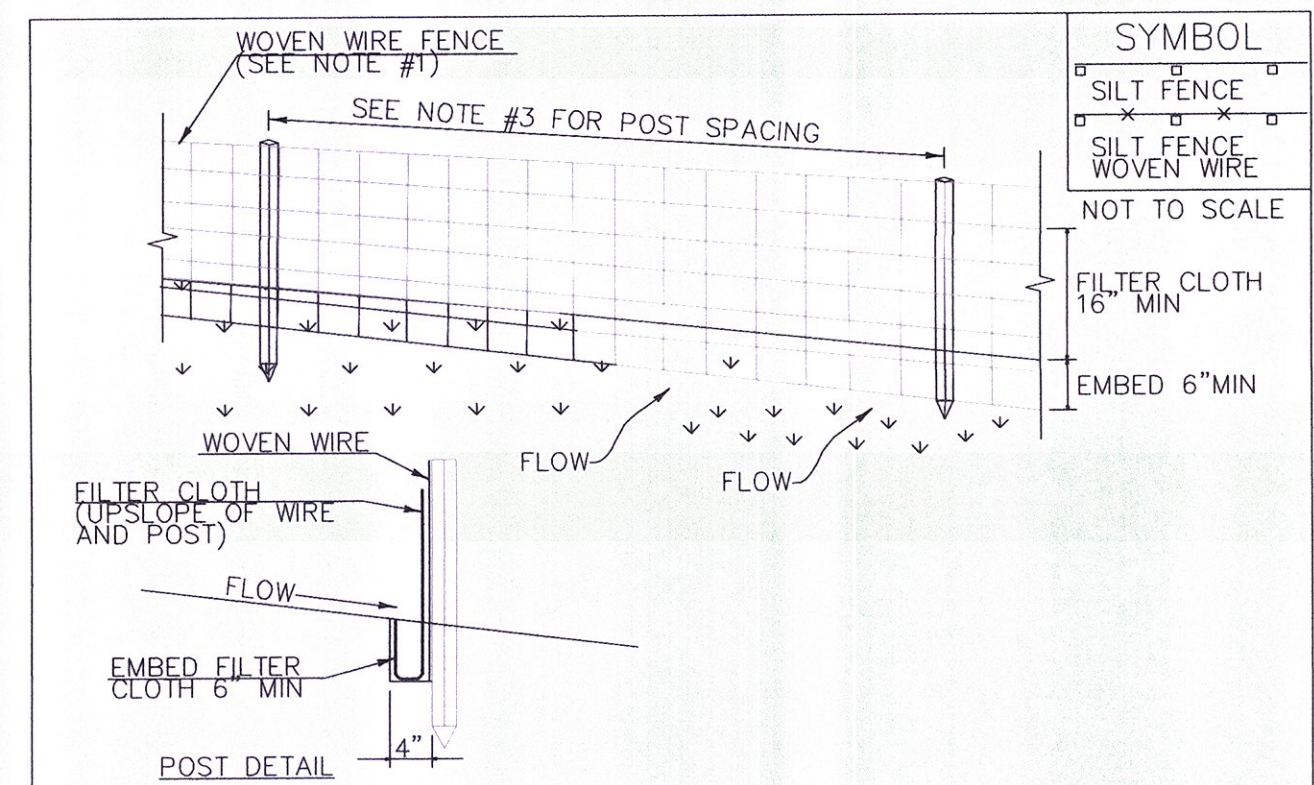
- FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
- CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
- STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
- SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
- FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
- A 2' x 4' WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
- MAXIMUM DRAINAGE AREA 1 ACRE

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

REVISIONS

MARCH 7, 2008	WHF
JANUARY 13, 2009	WHF

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 FOR INLET PROTECTION DEVICE, TYPE 1 (PAY ITEM 653.40).



CONSTRUCTION SPECIFICATIONS

- 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.
- FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
- POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER CLOTH FENCE WHEN ELONGATION IS <30% POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <30% POST SPACING SHALL NOT EXCEED 6'.
- 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.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
- 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

REVISIONS

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

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).

VAOT RURAL AREA MIX

% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREeping RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX

% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREeping RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE

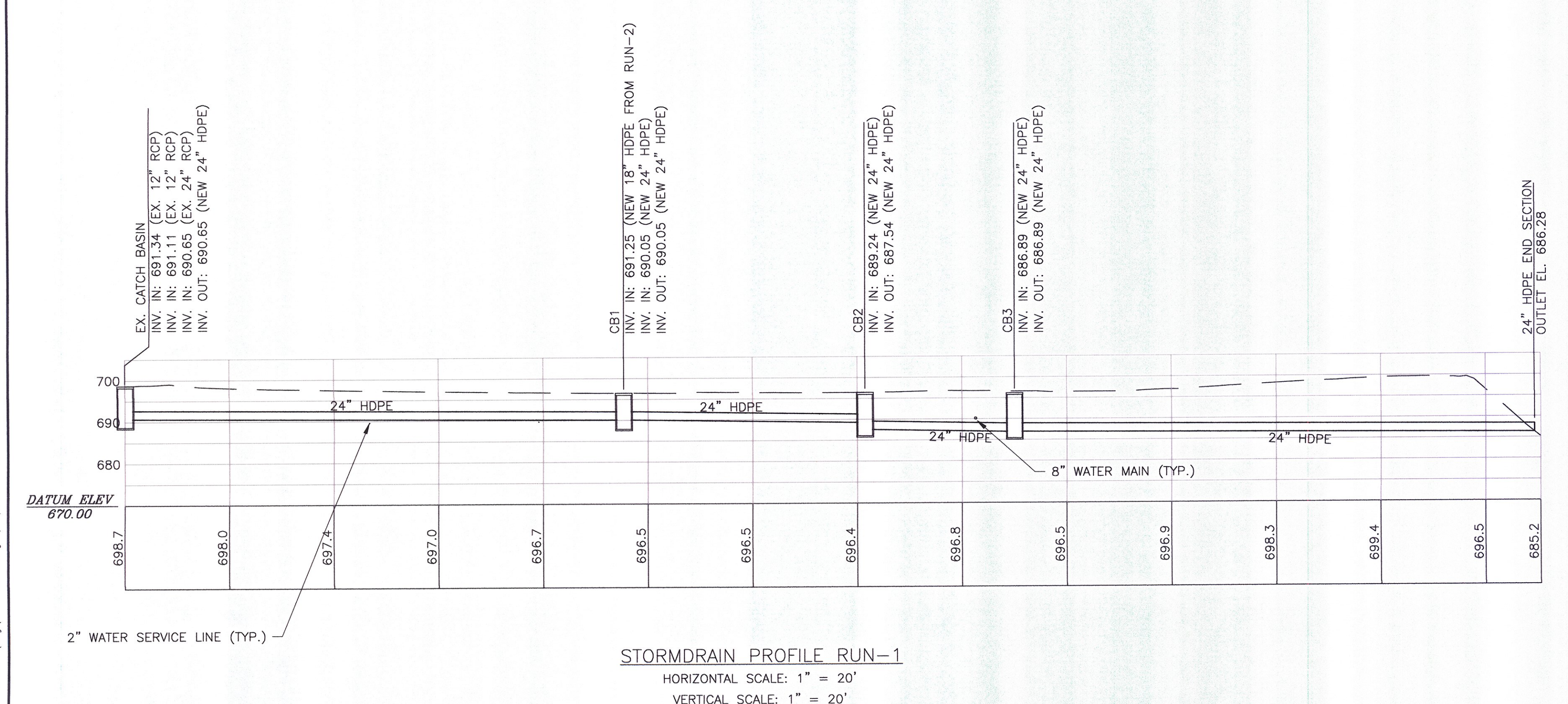
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

- CONSTRUCTION GUIDANCE**
- RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
 - URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
 - ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
 - FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
 - 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.
 - TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 - HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
 - TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

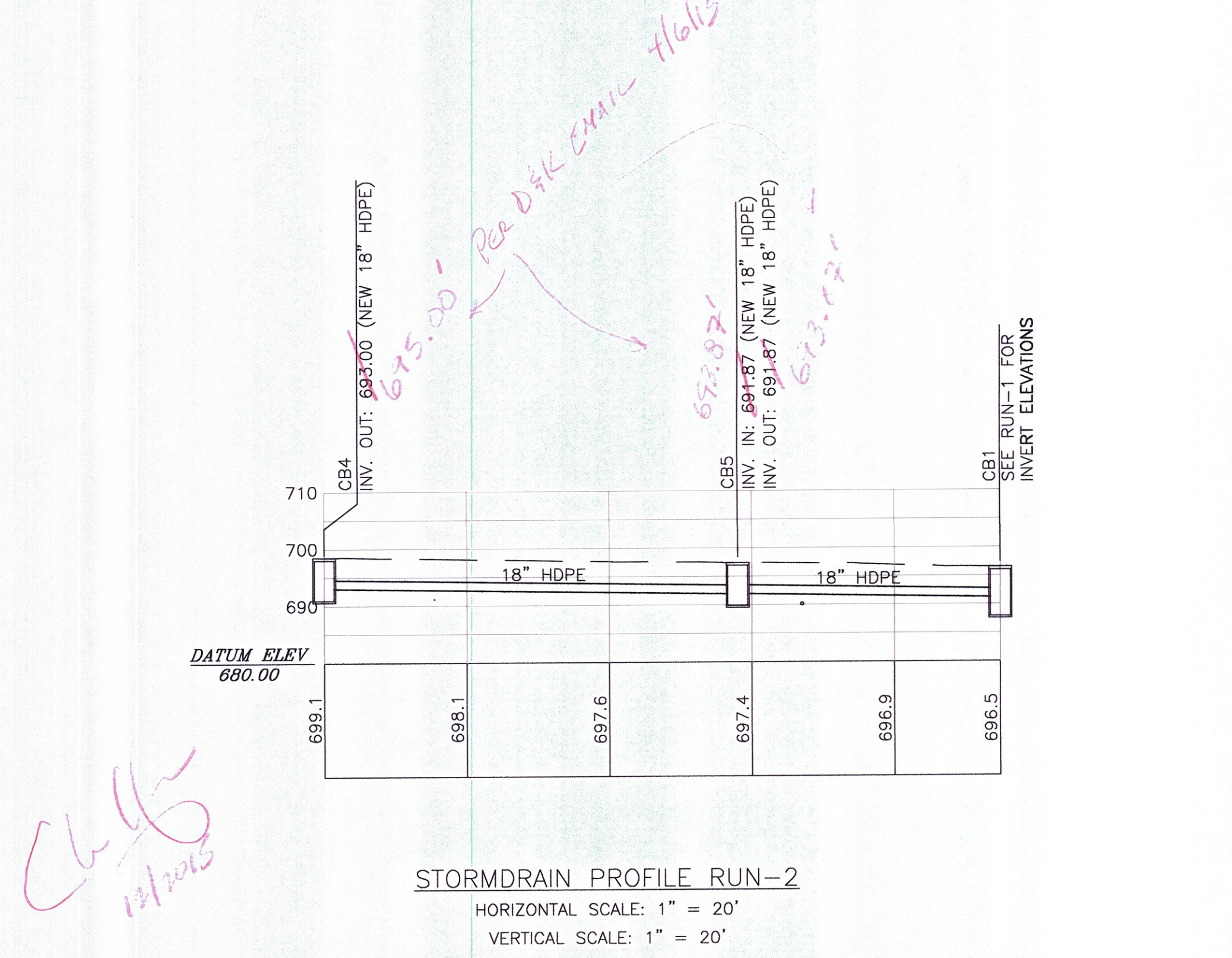
ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

REVISIONS

JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF
FEBRUARY 16, 2011	WHF



STORMDRAIN PROFILE RUN-1
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'



STORMDRAIN PROFILE RUN-2
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 20'

DuBois & King Inc.
ENGINEERING • PLANNING • MANAGEMENT • DEVELOPMENT
28 NORTH MAIN ST.
RANDOLPH, VT 05060
TEL: (802) 728-3376
FAX: (802) 728-4930
www.dubois-king.com
WILLISTON, VT
SPRINGFIELD, VT
BEDFORD, NH
© Copyright 2012 Dubois & King Inc.

PROFESSIONAL SEAL

FINAL PLANS

NO.	DATE	DESCRIPTION	BY	CHK'D
1	10/09/2013	REMOVED PROPOSED CB#1 FROM SCOPE OF WORK & RENUMBER CBS ACCORDINGLY	ZDC	

TOWN OF WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE
STORMDRAIN PROFILE AND MISCELLANEOUS DETAILS

DRAWN BY ZDC	DATE MAY 2014
CHECKED BY HLV	D&K PROJECT # 121447
PROJ. ENG. HLV	D&K ARCHIVE #

SHEET NUMBER
29
SHEET 29 OF 30

NO.	DATE	DESCRIPTION	ZDC	BY	CK'D
1	10/09/2013	ELECTRICAL SITE PLAN			

TOWN OF
WAITSFIELD
9 BRIDGE STREET
WAITSFIELD, VT

VILLAGE COVERED
BRIDGE REHAB. &
BRIDGE STREET
STORMWATER
IMPROVEMENTS

SHEET TITLE

PROPOSED
ELECTRICAL SITE
PLAN

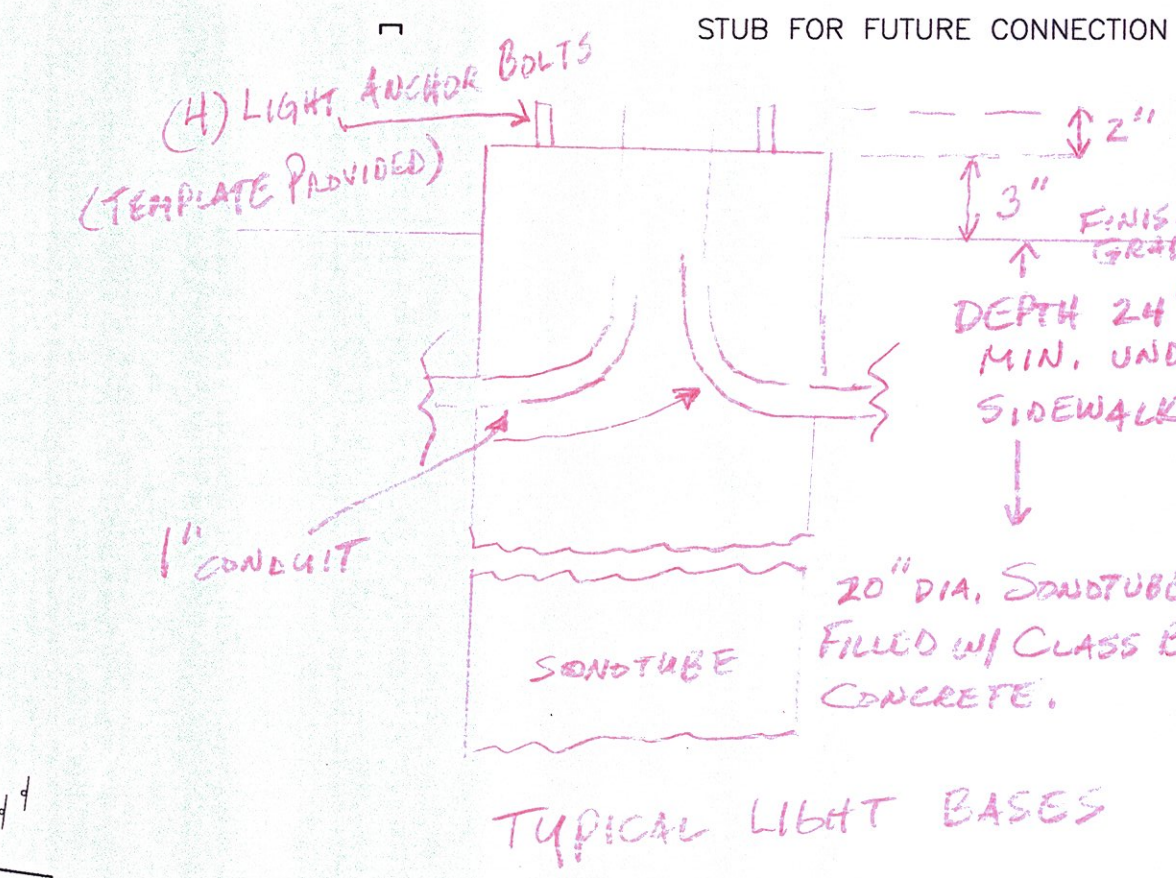
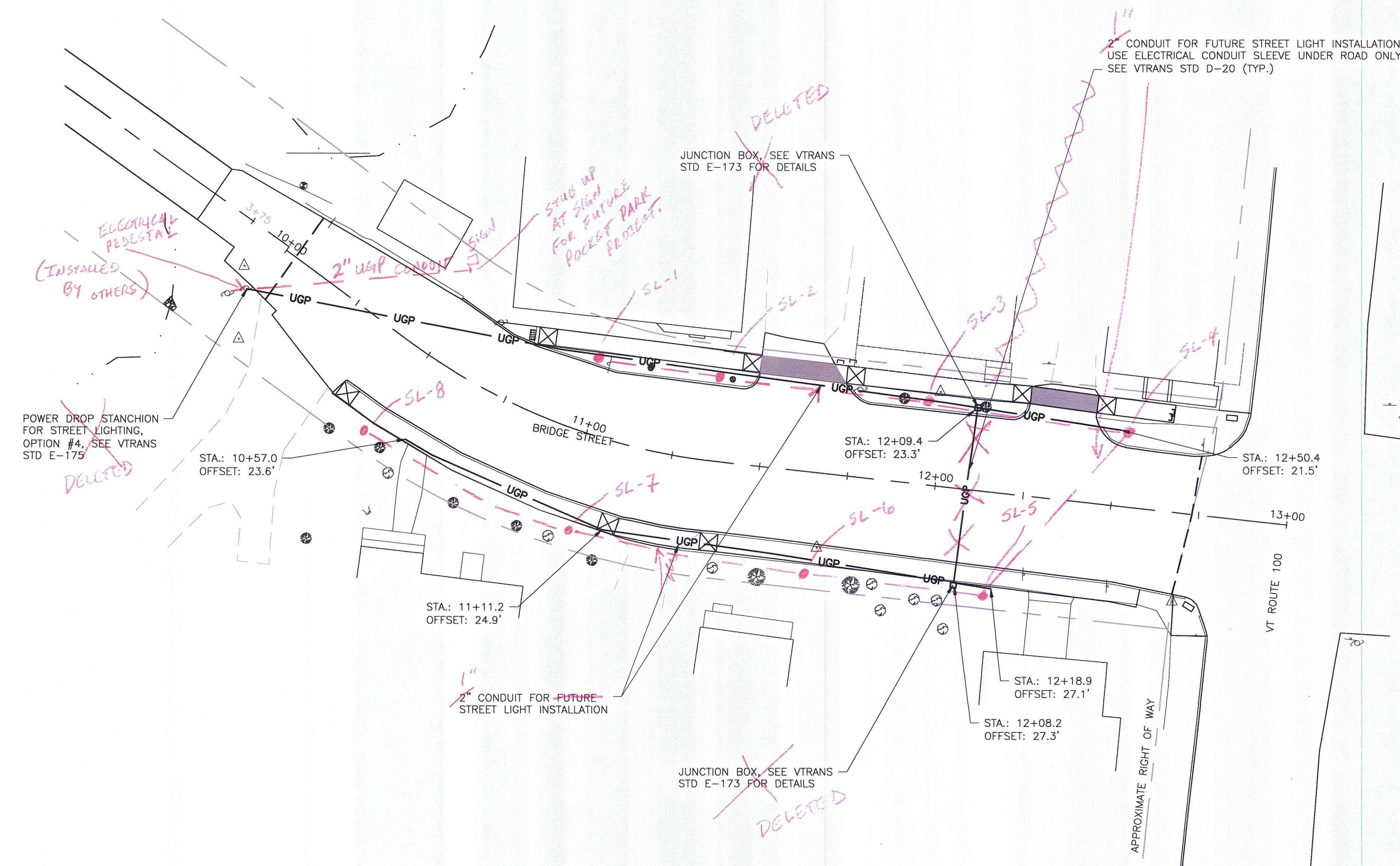
DRAWN BY	DATE
ZDC	MAY 2014
CHECKED BY	D&K PROJECT #
HLV	121447
PROJ. ENG.	D&K ARCHIVE #
HLV	

SHEET NUMBER

30

LEGEND

690	CONTOUR
SD	STORMDRAIN
W	WATER MAIN
---	FENCELINE
---	OVERHEAD POWER
---	EDGE OF WATER
---	APPROXIMATE RIGHT OF WAY
---	STRUCTURE
△	SURVEY CONTROL POINT
⊕	BENCHMARK
⊕	HYDRANT
⊕	WATER SHUTOFF
■	CATCHBASIN
+	SIGN
⊕	WELL
⊕	UTILITY POLE
---	UNDERGROUND POWER
---	UNDERGROUND TELECOMMUNICATION
---	STUB FOR FUTURE CONNECTION



• STREET LAMP BASES w/
REBAR REINFORCED CONCRETE
BASES INSTALLED.
- LAMPS AND WIRING
INSTALLED BY OTHERS.

Ch...
12/2015

NOTE:
1. UNDERGROUND CONDUIT TO BE INSTALLED IN ACCORDANCE WITH VTRANS
STANDARD DETAILS E-175 AND D-20.

PROPOSED ELECTRICAL SITE PLAN

