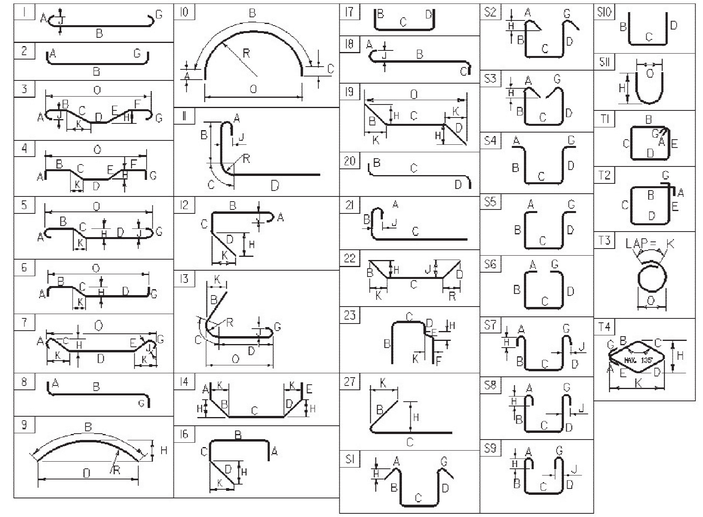
ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
	324	5	30'- 0"	S501.3	STR	30'- 0"											
▲	328	5	15'- 9"	S502.3	STR	15'- 9"											
▲	328	5	31'- 2"	S503.3	STR	31'- 2"											
✳	25	5	5'- 0"	S504.3	STR	5'- 0"											
	256	5	5'- 4"	S505.3	S5	0'- 10"	1'- 1"	1'- 5"	1'- 2"			0'- 10"					
✳	71	8	23'- 7"	S801.3	17		3'- 0"	20'- 7"	---								
	APPROACH SLAB #1																
✳	22	5	13'- 3"	1AS501	STR	13'- 3"											
	21	5	28'- 6"	1AS502	STR	28'- 6"											
	49	9	20'- 9"	1AS901	1	1'- 3"	19'- 6"					---		1'- 0"			
	APPROACH SLAB #2																
	21	5	13'- 6"	2AS501	STR	13'- 6"											
	21	5	29'- 0"	2AS502	STR	29'- 0"											
✳	50	9	20'- 9"	2AS901	1	1'- 3"	19'- 6"					---		1'- 0"			
	ABUTMENT #1																
✳	31	5	22'- 1"	1A501	STR	22'- 1"											
	60	5	5'- 4"	1A502	STR	5'- 4"											
	12	5	20'- 10"	1A501.3	STR	20'- 10"											
	14	7	19'- 10"	1A701.3	STR	19'- 10"											
✳ ▲	17	7	18'- 8"	1A702.3	STR	18'- 8"											
	22	8	19'- 1"	1A802	STR	19'- 1"											
✳ ▲	31	8	18'- 8"	1A803	STR	18'- 8"											
	30	5	14'- 11"	1A503	22		2'- 5"	12'- 6"	---				2'- 4"	---	0'- 8"	---	
✳ ▲	86	5	12'- 7"	1A502.3	17		2'- 7"	10'- 0"	---								
	22	5	14'- 11"	1A503.3	22		2'- 5"	12'- 6"	---				2'- 4"	---	0'- 8"	---	
	112	5	7'- 5"	1A504.3	S10		2'- 5"	2'- 7"	2'- 5"								
▲	2	5	9'- 4"	1A505.3	22		5'- 4"	4'- 0"	---				2'- 6"	---	4'- 9"	---	
▲	17	5	22'- 1"	1A506.3	S10		9'- 9"	2'- 7"	9'- 9"								
	11	5	26'- 9"	1A507.3	S10		12'- 1"	2'- 7"	12'- 1"								
✳	36	6	6'- 1"	1A601.3	1	0'- 8"	4'- 9"					0'- 8"		0'- 6"			
✳	36	6	6'- 6"	1A602.3	22		5'- 0"	1'- 6"	---				3'- 6"	---	3'- 6"	---	
✳ ▲	85	8	12'- 7"	1A801.3	17		2'- 7"	10'- 0"	---								
	WINGWALL #1																
	11	5	25'- 3"	1W501.3	S10		12'- 1"	1'- 1"	12'- 1"								
	11	5	6'- 5"	1W502.3	S10		2'- 8"	1'- 1"	2'- 8"								
	ABUTMENT #2																
	30	5	22'- 1"	2A501	STR	22'- 1"											
	60	5	5'- 4"	2A502	STR	5'- 4"											
	12	5	20'- 10"	2A501.3	STR	20'- 10"											
✳	17	7	17'- 6"	2A701.3	STR	17'- 6"											
▲	16	7	18'- 10"	2A702.3	STR	18'- 10"											
✳	23	8	16'- 10"	2A802	STR	16'- 10"											
▲	30	8	18'- 10"	2A803	STR	18'- 10"											
✳	23	5	14'- 11"	2A503	22		2'- 5"	12'- 6"	---				2'- 4"	---	0'- 8"	---	
	30	5	15'- 2"	2A505	27		2'- 5"	12'- 9"					2'- 4"		0'- 8"		
▲	85	5	12'- 8"	2A502.3	17		2'- 7"	10'- 1"	---								
	22	5	14'- 11"	2A503.3	22		2'- 5"	12'- 6"	---				2'- 4"	---	0'- 8"	---	
	107	5	7'- 5"	2A504.3	S10		2'- 5"	2'- 7"	2'- 5"								
	22	5	15'- 2"	2A505.3	27		2'- 5"	12'- 9"					2'- 4"		0'- 8"		
	11	5	26'- 11"	2A506.3	S10		12'- 2"	2'- 7"	12'- 2"								
	12	5	22'- 1"	2A507.3	S10		9'- 9"	2'- 7"	9'- 9"								
✳	36	6	6'- 1"	2A601.3	1	0'- 8"	4'- 9"					0'- 8"		0'- 6"			
✳	36	6	6'- 6"	2A602.3	22		5'- 0"	1'- 6"	---				3'- 6"	---	3'- 6"	---	
✳ ▲	85	8	12'- 8"	2A801.3	17		2'- 7"	10'- 1"	---								
	WINGWALL #3																
	11	5	24'- 11"	3W501.3	S10		11'- 11"	1'- 1"	11'- 11"								
	11	5	6'- 5"	3W502.3	S10		2'- 8"	1'- 1"	2'- 8"								
	WINGWALL #4																
✳	12	5	20'- 3"	4W501.3	S10		9'- 7"	1'- 1"	9'- 7"								
	11	5	6'- 5"	4W502.3	S10		2'- 8"	1'- 1"	2'- 8"								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS *TO BE CUT IN FIELD*.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. .3 IN BAR MARK SUFFIX DENOTES LEVEL III REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES ^{2}	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

Vermont Agency of Transportation

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CK'D BY RK OK'D BY JS

June 23, 2014

RESUBMIT No Approved

BY KH DATE 06/24/2014

REV. NO.	DATE:
1 6	23/14

BRENAUD BROS. INC.

283 FT. BRIDGMAN RD. VERNON VT., 05354
PH. (802) 257-7383 FAX: (802) 257-7308

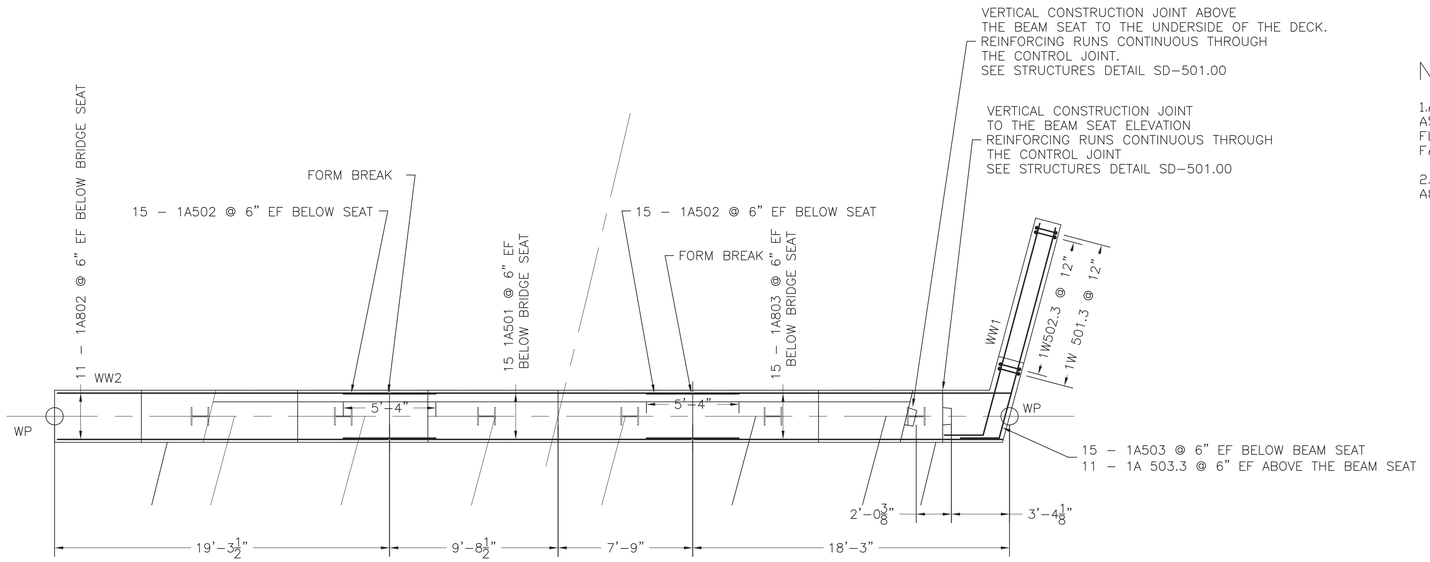
SHEET NAME: REINFORCING STEEL SCHEDULE

PROJECT NAME: MARLBORO BRF

PROJECT NO: 010-1 (43)

SHEET NO. 1 OF 4

DRAWN BY: CDE | CHK'D BY: | DATE: 06/19/2014



ABUTMENT 1 PLAN

SCALE 1/4" = 1'-0"

NOTES:

1.AT EACH GIRDER LOCATION, BUNDLE (2) A502.3 BARS ON EACH SIDE OF THE GIRDER FLANGE AND OMIT THE (2) A502.3 BARS THAT FALL WITHIN THE WIDTH OF THE FLANGE.

2.TURN THE BOTTOM LEG OF A502.3 AND A801.3 BARS TO CLEAR PILES AS NEEDED.

Vermont Agency of Transportation

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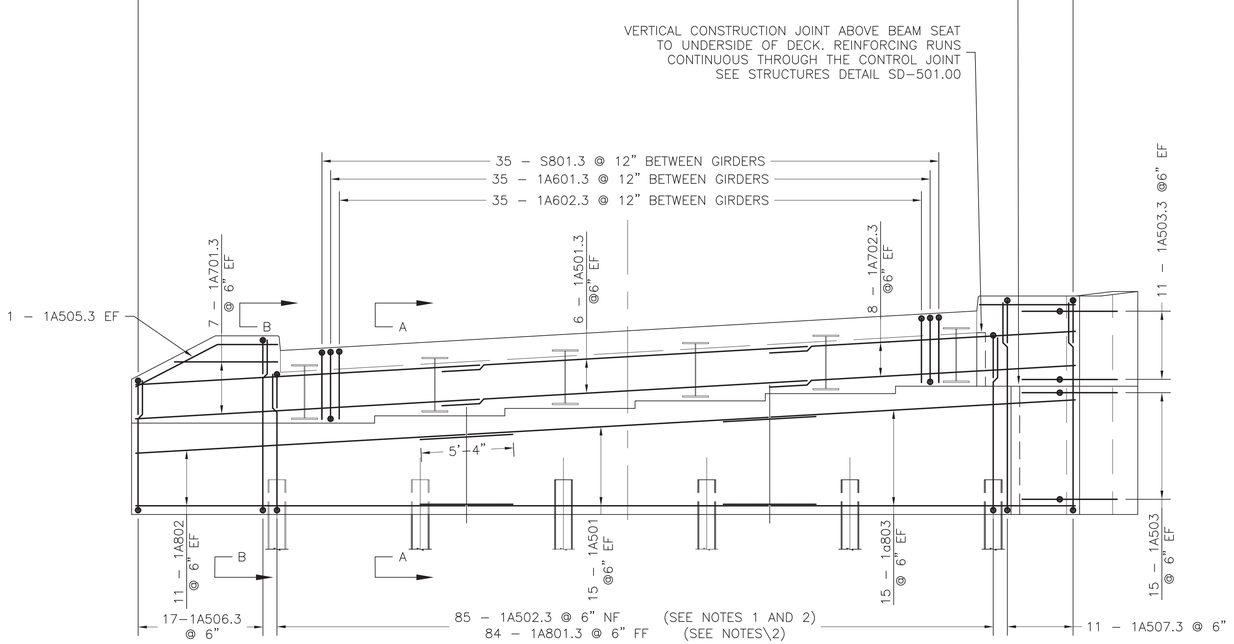
June 23, 2014

RESUBMIT No Approved

BY KH DATE 06/24/2014

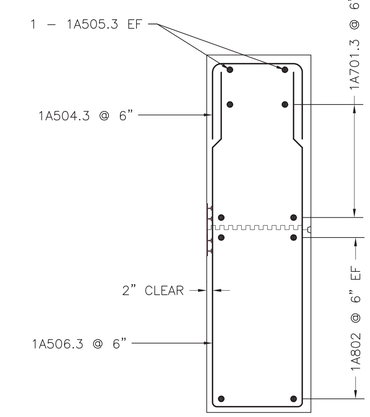
LEGEND:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.



ABUTMENT 1 ELEVATION

SCALE 1/4" = 1'-0"



SECTION B-B
WINGWALL 2 REINFORCING TYPICAL

SCALE 1/2" = 1'-0"

REV. NO.	DATE:
1 6	23/14

RENAUD BROS. INC.
285 FT. BRIDGMAN RD. VERNON VT., 05354
PH. (802) 257-7583 FAX:(802) 257-7508

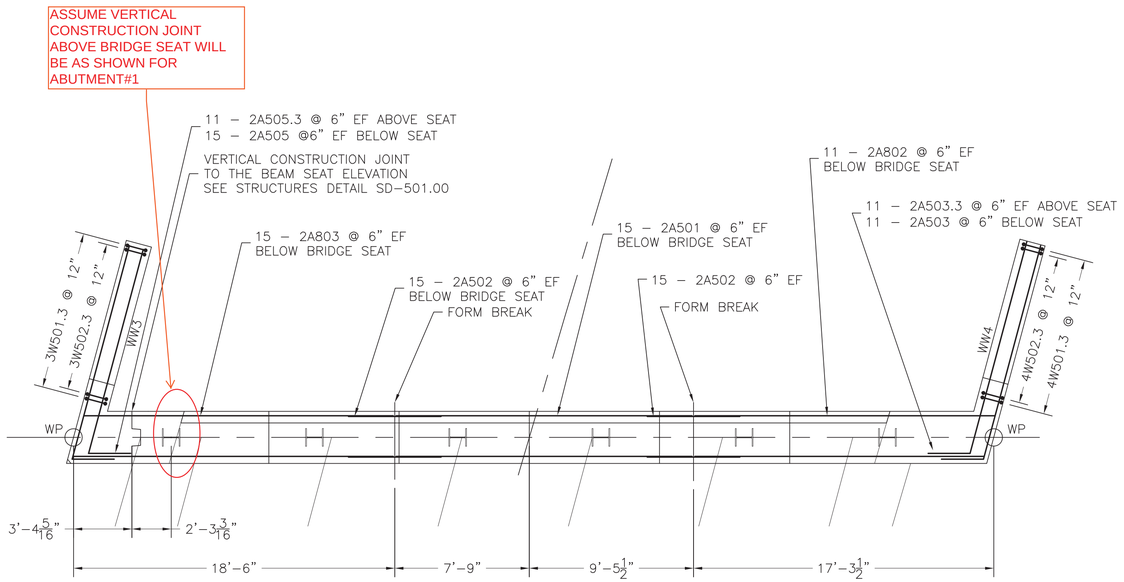
SHEET NAME: ABUTMENT 1

PROJECT NAME: MARLBORO BRF

PROJECT NO: 010-1 (43)

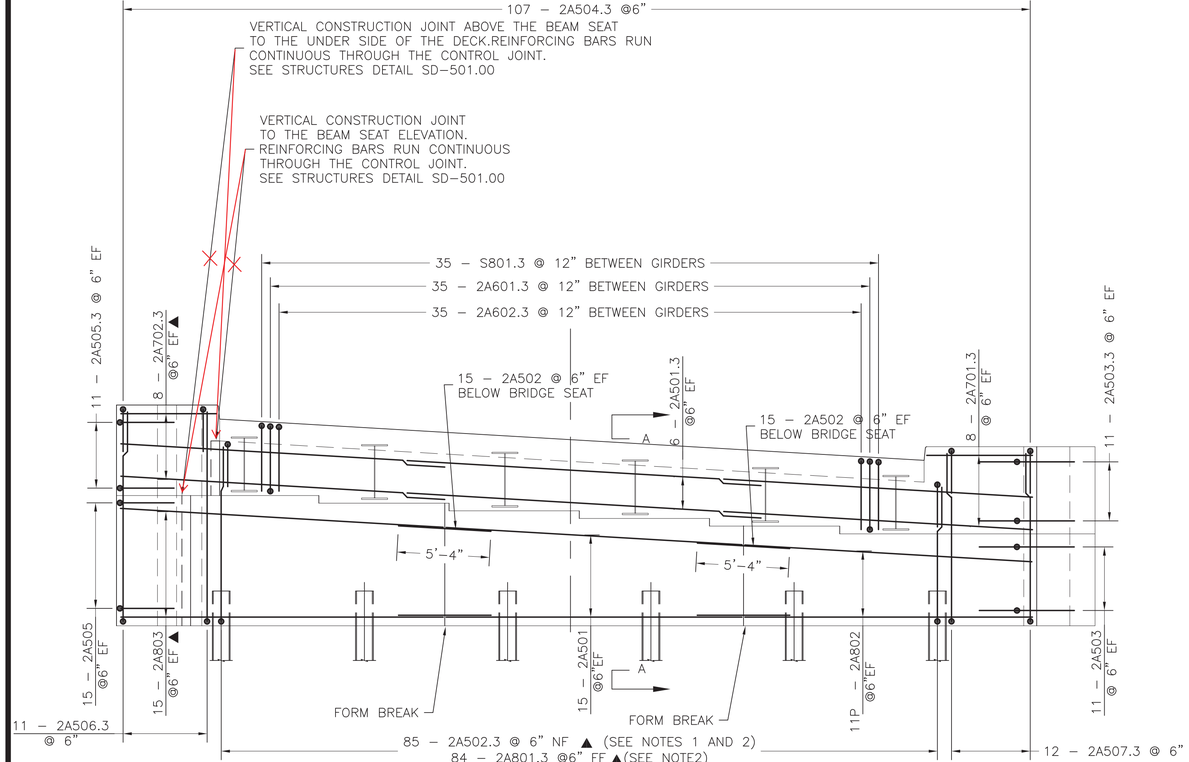
SHEET NO. 2 OF 4

DRAWN BY:	CHK'D BY:	DATE:
CDE		06/19/2014



ABUTMENT 2 PLAN

SCALE 1/4" = 1'-0"



ABUTMENT 2 ELEVATION

SCALE 1/4" = 1'-0"

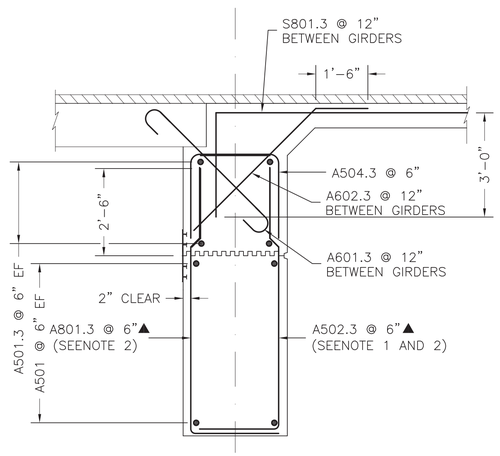
NOTES:

1.AT EACH GIRDER LOCATION, BUNDLE (2) A502.3 BARS ON EACH SIDE OF THE GIRDER FLANGE AND OMIT THE (2) A502.3 BARS THAT FALL WITHIN THE WIDTH OF THE FLANGE.

2.TURN THE BOTTOM LEG OF A502.3 AND A801.3 BARS TO CLEAR PILES AS NEEDED.

LEGEND:

NF = NEAR FACE
FF = FAR FACE
▲ = EACH FACE
= CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.



SECTION A-A
ABUTMENT REINFORCING TYPICAL

SCALE 1/2" = 1'-0"

REV. NO.	DATE:
1 6	23/14

BRENAUD BROS. INC.
283 FT. BRIDGMAN RD. VERNON VT., 05354
PH. (802) 257-7583 FAX: (802) 257-7508

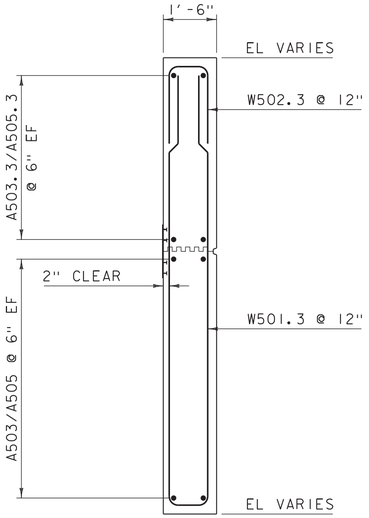
SHEET NAME: ABUTMENT 2

PROJECT NAME: MARLBORO BRF

PROJECT NO: 010-1 (43)

SHEET NO. 3 OF 4

DRAWN BY: CDE | CHK'D BY: | DATE: 06/19/2014

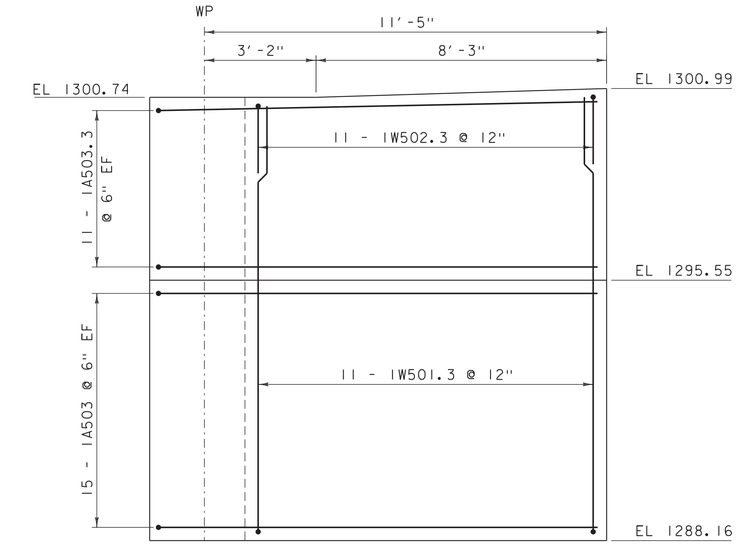


WINGWALL TYPICAL

SCALE 1/2" = 1'-0"

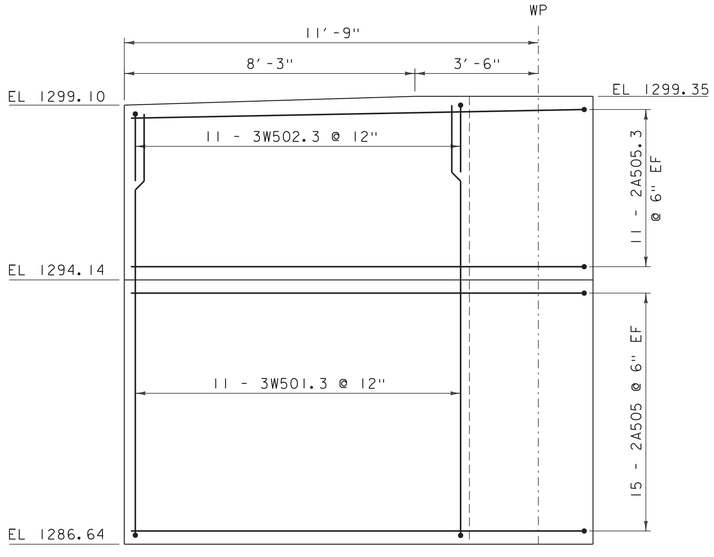
NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.



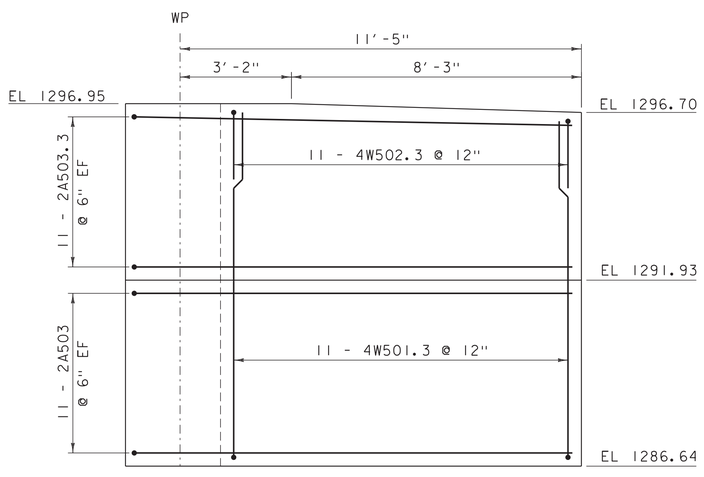
WINGWALL 1 ELEVATION

SCALE 1/2" = 1'-0"



WINGWALL 3 ELEVATION

SCALE 1/2" = 1'-0"



WINGWALL 4 ELEVATION

SCALE 1/2" = 1'-0"

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June 23, 2014

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BY KH DATE 06/24/2014

REV. NO.	DATE:

BRENAUD BROS. INC.
283 FT. BRIDGMAN RD. VERNON VT., 05354
PH. (802) 257-7585 FAX: (802) 257-7508

SHEET NAME: WINGWALL DETAILS

PROJECT NAME: MARLBORO BRF

PROJECT NO: 010-1 (43)

SHEET NO. 4 OF 4

DRAWN BY:	CHK'D BY:	DATE:
CDE		06/19/2014