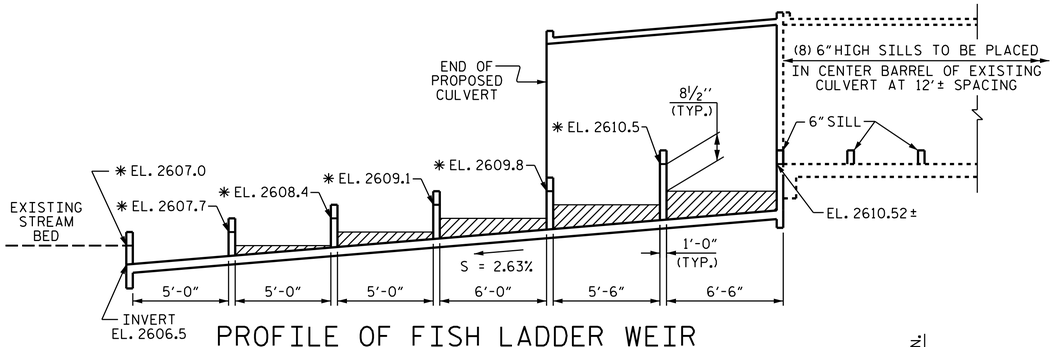
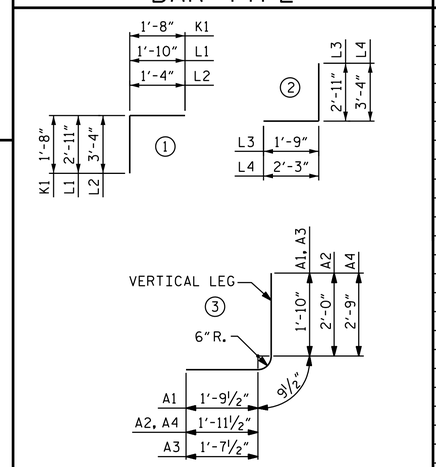


PROFILE OF FISH LADDER WEIR

FILL SHADED AREAS WITH CONCRETE
✱ ELEVATIONS SHOWN ARE LOCATED AT TOP OF CENTER WEIR

SPLICE LENGTH CHART		
BAR	SIZE	LENGTH
A200	#4	1'-9"
A400	#5	2'-2"
B1	#4	1'-9"
B3	#4	1'-9"
'C'	#4	1'-11"
'H'	#4	1'-9"
'S'	#8	4'-11"
'S'	#6	2'-9"

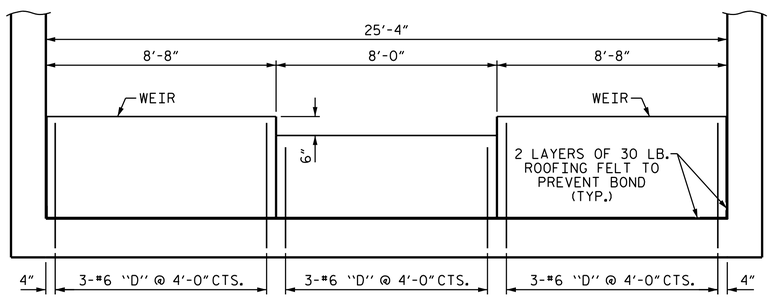
BAR TYPE



BAR DIMENSIONS ARE OUT TO OUT

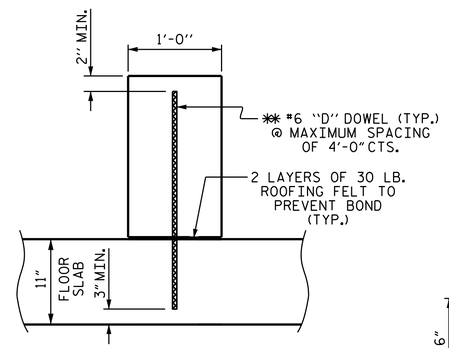
BAR SCHEDULE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	56	#4	3	4'-5"	165	A450	76	#5	STR	16'-3"	1288
A2	56	#5	3	4'-9"	277	A451	1	#5	STR	14'-9"	15
A3	56	#4	3	4'-3"	159	A452	1	#5	STR	12'-10"	13
A4	94	#4	3	5'-6"	345	A453	1	#5	STR	11'-0"	11
						A454	1	#5	STR	9'-2"	10
A100	18	#4	STR	26'-8"	321	A455	1	#5	STR	7'-3"	8
A101	1	#4	STR	25'-11"	17	A456	1	#5	STR	5'-5"	6
A102	1	#4	STR	23'-9"	16	A457	1	#5	STR	3'-7"	4
A103	1	#4	STR	21'-7"	14						
A104	1	#4	STR	19'-5"	13	B1	40	#4	STR	12'-3"	327
A105	1	#4	STR	17'-3"	12	B2	28	#5	STR	10'-4"	302
A106	1	#4	STR	15'-1"	10	B3	56	#4	STR	12'-3"	458
A107	1	#4	STR	12'-10"	9						
A108	1	#4	STR	10'-8"	7	C1	24	#4	STR	22'-1"	354
A109	1	#4	STR	8'-6"	6	C2	18	#4	STR	20'-9"	249
A110	1	#4	STR	6'-4"	4	C3	26	#4	STR	19'-9"	343
A111	1	#4	STR	4'-2"	3	C4	70	#4	STR	9'-8"	452
A112	1	#4	STR	2'-0"	1	C5	20	#4	STR	8'-4"	111
						C6	70	#4	STR	7'-4"	343
A200	56	#4	STR	12'-1"	452						
A201	1	#4	STR	11'-1"	7	D1	30	#6	STR	2'-6"	113
A202	1	#4	STR	8'-9"	6	D2	6	#6	STR	2'-0"	18
A203	1	#4	STR	6'-5"	4	D3	22	#6	STR	3'-0"	99
A204	1	#4	STR	4'-1"	3	D4	6	#6	STR	1'-4"	12
						D5	6	#6	STR	1'-11"	17
A250	61	#4	STR	16'-3"	662	D6	6	#6	STR	2'-5"	22
A251	1	#4	STR	14'-0"	9	D7	6	#6	STR	3'-0"	27
A252	1	#4	STR	11'-8"	8	D8	6	#6	STR	3'-6"	32
A253	1	#4	STR	9'-5"	6	D9	6	#6	STR	4'-1"	37
A254	1	#4	STR	7'-1"	5	D10	24	#6	STR	9"	27
A255	1	#4	STR	4'-9"	3	D11	3	#6	STR	10"	4
A256	1	#4	STR	2'-5"	2	D12	3	#6	STR	1'-5"	6
						D13	3	#6	STR	2'-0"	9
A300	21	#4	STR	26'-8"	374	D14	3	#6	STR	2'-6"	11
A301	1	#4	STR	25'-11"	17	D15	3	#6	STR	3'-1"	14
A302	1	#4	STR	24'-1"	16	D16	3	#6	STR	3'-7"	16
A303	1	#4	STR	22'-2"	15						
A304	1	#4	STR	20'-4"	14	K1	14	#4	1	3'-4"	31
A305	1	#4	STR	18'-6"	12						
A306	1	#4	STR	16'-7"	11	G1	4	#5	STR	26'-8"	111
A307	1	#4	STR	14'-9"	10						
A308	1	#4	STR	12'-10"	9	H1	4	#4	STR	12'-6"	33
A309	1	#4	STR	11'-0"	7	H2	4	#4	STR	16'-11"	45
A310	1	#4	STR	9'-2"	6						
A311	1	#4	STR	7'-3"	5	L1	18	#6	1	4'-9"	128
A312	1	#4	STR	5'-5"	4	L2	15	#6	1	4'-8"	105
A313	1	#4	STR	3'-7"	2	L3	18	#6	2	4'-8"	126
						L4	15	#6	2	5'-7"	126
A400	70	#5	STR	12'-6"	913						
A401	1	#5	STR	11'-6"	12	S1	6	#6	STR	13'-6"	122
A402	1	#5	STR	9'-8"	10	S2	6	#6	STR	16'-10"	152
A403	1	#5	STR	7'-9"	8	S3	5	#8	STR	15'-3"	204
A404	1	#5	STR	5'-11"	6	S4	5	#8	STR	16'-4"	218
A405	1	#5	STR	4'-0"	4	S5	3	#8	STR	26'-8"	214
						S6	6	#6	STR	27'-7"	249
						REINFORCING STEEL = 10,623 LBS.					



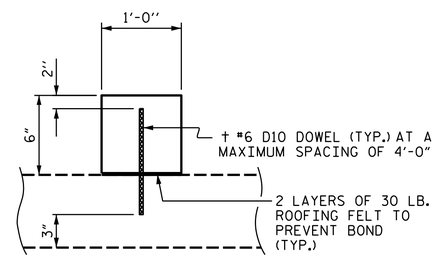
ELEVATION

(LOOKING UPSTREAM)



SECTION THRU WEIR

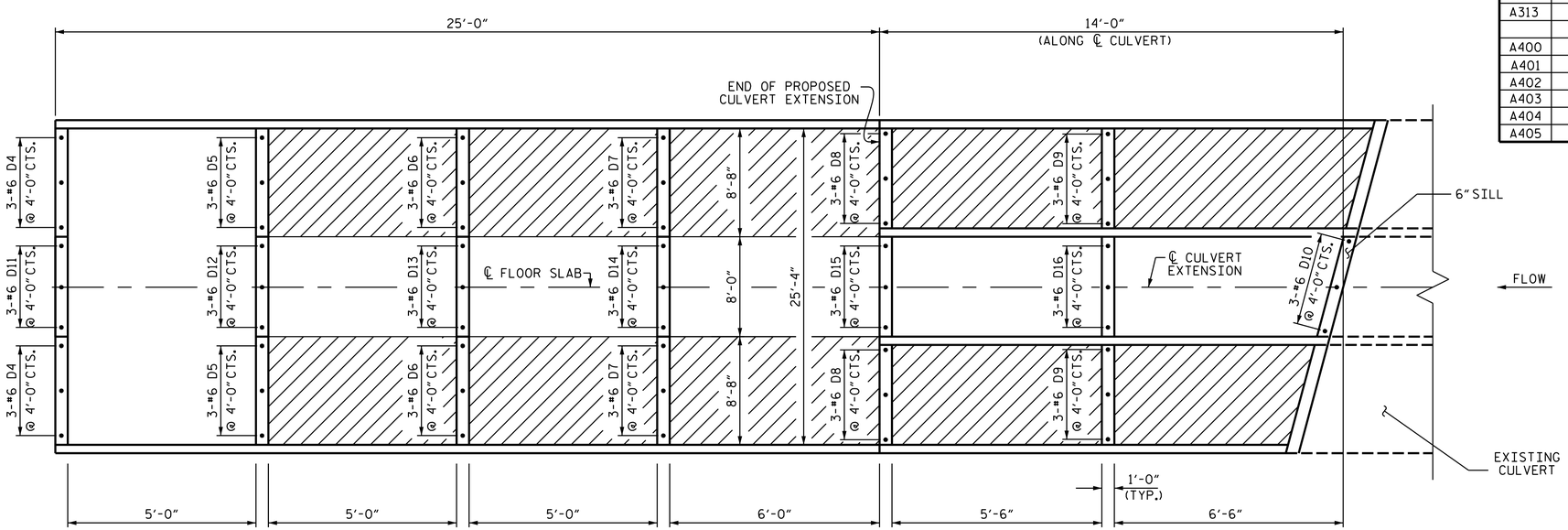
✱✱ DOWELS MAY BE PUSHED INTO GREEN CONCRETE AFTER SLAB HAS BEEN FLOAT FINISHED.



SECTION THROUGH 6" SILL

† ADHESIVELY ANCHORED DOWELS SHALL BE USED TO CONNECT THE SILLS TO THE EXISTING CULVERT. NO FIELD TESTING IS REQUIRED. FOR ADHESIVELY ANCHORED BOLTS AND DOWELS, SEE SPECIAL PROVISIONS.

FISH LADDER WEIR DETAILS



PLAN OF FISH LADDER WEIR

FILL SHADED AREAS WITH CONCRETE

PROJECT NO. R-2519B
MITCHELL COUNTY
STATION: 319+76.16 -L-

SHEET 5 OF 13

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

TRIPLE 8 FT. X 11 FT. CONCRETE BOX CULVERT LEFT EXTENSION

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL C. CHEEK, JR.

8/27/2014 Marshall C. Cheek, Jr.

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			C-45
1			3					TOTAL SHEETS
2			4					87

DRAWN BY : M.A. LEBLANC DATE : 10/13
CHECKED BY : M.G. CHEEK DATE : 10/13
DESIGN ENGINEER OF RECORD: J.R. MCROY DATE : 10/13

STR#10