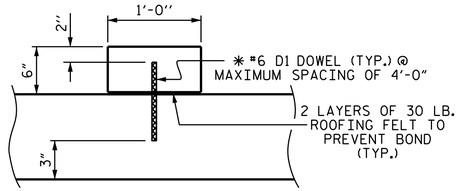
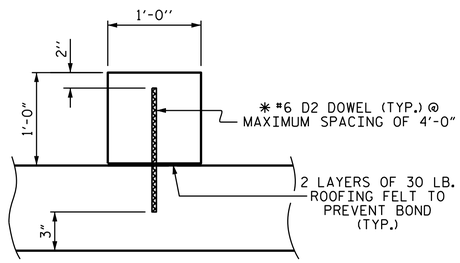


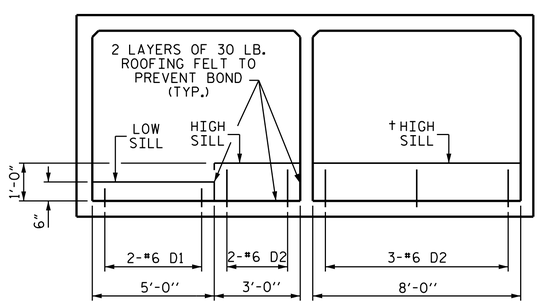
SECTION THRU LOW SILL

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



SECTION THRU HIGH SILL

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



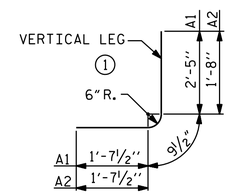
ELEVATION

(LOOKING DOWNSTREAM)

CULVERT SILL DETAILS

† HIGH SILL IN RIGHT BARREL AT INLET ONLY

BAR TYPE



BAR DIMENSIONS ARE OUT TO OUT

SPLICE LENGTH CHART

BAR	SIZE	LENGTH
A200	#4	1'-9"
A400	#4	1'-9"
B1	#4	1'-5"
B3	#4	1'-5"
C1	#4	1'-11"
'S'	#6	2'-9"

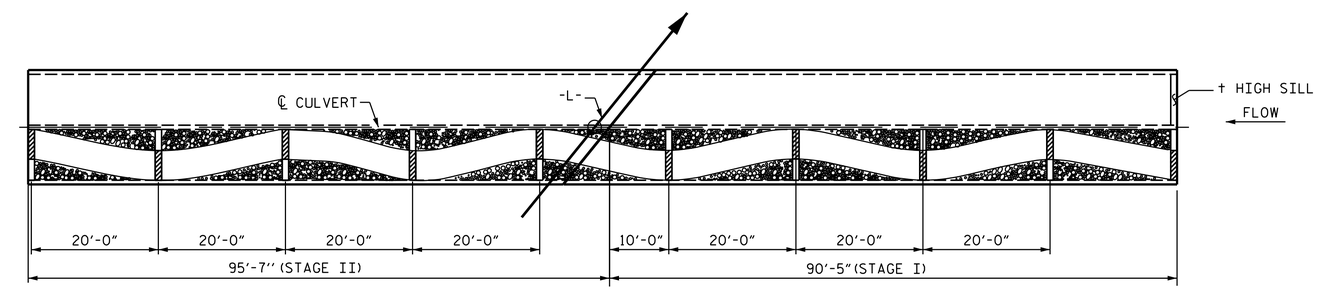
BAR SCHEDULE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	362	#4	1	4'-10"	1169
A2	362	#4	1	4'-1"	987
A100	167	#5	STR	17'-8"	3077
A101	2	#5	STR	16'-5"	34
A102	2	#5	STR	15'-2"	32
A103	2	#5	STR	13'-11"	29
A104	2	#5	STR	12'-8"	26
A105	2	#5	STR	11'-5"	24
A106	2	#5	STR	10'-3"	21
A107	2	#5	STR	9'-0"	19
A108	2	#5	STR	7'-9"	16
A109	2	#5	STR	6'-6"	14
A110	2	#5	STR	5'-3"	11
A111	2	#5	STR	4'-1"	9
A112	5	#5	STR	2'-10"	15
A200	154	#4	STR	17'-8"	1817
A201	2	#4	STR	16'-3"	22
A202	2	#4	STR	14'-11"	20
A203	2	#4	STR	13'-7"	18
A204	2	#4	STR	12'-3"	16
A205	2	#4	STR	10'-11"	15
A206	2	#4	STR	9'-7"	13
A207	2	#4	STR	8'-3"	11
A208	2	#4	STR	6'-11"	9
A209	2	#4	STR	5'-7"	7
A210	2	#4	STR	4'-3"	6
A211	5	#4	STR	2'-11"	10

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A300	167	#4	STR	17'-8"	1971
A301	2	#4	STR	16'-5"	22
A302	2	#4	STR	15'-2"	20
A303	2	#4	STR	13'-11"	19
A304	2	#4	STR	12'-8"	17
A305	2	#4	STR	11'-5"	15
A306	2	#4	STR	10'-3"	14
A307	2	#4	STR	9'-0"	12
A308	2	#4	STR	7'-9"	10
A309	2	#4	STR	6'-6"	9
A310	2	#4	STR	5'-3"	7
A311	2	#4	STR	4'-1"	5
A312	5	#4	STR	2'-10"	9
A400	167	#4	STR	17'-8"	1971
A401	2	#4	STR	16'-5"	22
A402	2	#4	STR	15'-2"	20
A403	2	#4	STR	13'-11"	19
A404	2	#4	STR	12'-8"	17
A405	2	#4	STR	11'-5"	15
A406	2	#4	STR	10'-3"	14
A407	2	#4	STR	9'-0"	12
A408	2	#4	STR	7'-9"	10
A409	2	#4	STR	6'-6"	9
A410	2	#4	STR	5'-3"	7
A411	2	#4	STR	4'-1"	5
A412	5	#4	STR	2'-10"	9

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	182	#4	STR	9'-3"	1125
B2	362	#4	STR	7'-4"	1773
B3	182	#4	STR	9'-3"	1125
C1	288	#4	STR	26'-5"	5082
D1	10	#6	STR	0'-10"	13
D2	13	#6	STR	1'-4"	26
G1	4	#5	STR	17'-8"	74
S2	12	#6	STR	22'-8"	409

REINFORCING STEEL = 21,334 LBS.



PLAN OF SILL LOCATION

DENOTES LOW FLOW SILL

NOTES

MATERIAL EXCAVATED FROM THE EXISTING BED SHALL BE STOCKPILED FOR USE IN THE PROPOSED CULVERT AS SHOWN IN THE "PLAN OF SILL LOCATION". BED MATERIAL SHALL BE SUPPLEMENTED WITH CLASS 'B' RIP RAP AS NECESSARY. STONE LARGER THAN 6" SHALL NOT BE PLACED WITHIN THE LOW FLOW CHANNEL. BED MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.

THE ENTIRE COST OF WORK REQUIRED TO PLACE THE EXCAVATED MATERIAL OR SUPPLEMENTAL MATERIAL AS SHOWN ON THE PLANS SHALL BE INCLUDED IN THE CONTACT LUMP SUM PRICE BID FOR CULVERT EXCAVATION.

THE ENTIRE COST OF WORK REQUIRED TO CONSTRUCT THE SILLS SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.

THE STOCKPILED MATERIAL SHALL BE PLACED AS SHOWN IN THE "PLAN OF SILL LOCATION" SKETCH TO PROVIDE A 6" DEPTH LOW FLOW CHANNEL BETWEEN THE LOW FLOW SILLS, AND SHALL BE PLACED TO THE LEVEL OF 1'-0" BETWEEN THE HIGH FLOW SILLS.

PROJECT NO. R-2519B

MITCHELL COUNTY

STATION: 323+58.66 -L-

SHEET 5 OF 11

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

DOUBLE 8 FT. X 8 FT. CONCRETE BOX CULVERT STAGE I

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

9/2/2014 Marshall G. Cheek, Jr.
DocuSigned by: 6549D6EBAA3B405...

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		C-58
1			3				TOTAL SHEETS
2			4				87

STR. #11

DRAWN BY : M. POOLE DATE : 10/13
CHECKED BY : D. HODGE DATE : 10/13
DESIGN ENGINEER OF RECORD: J. R. MCROY DATE : 10/13

$$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$