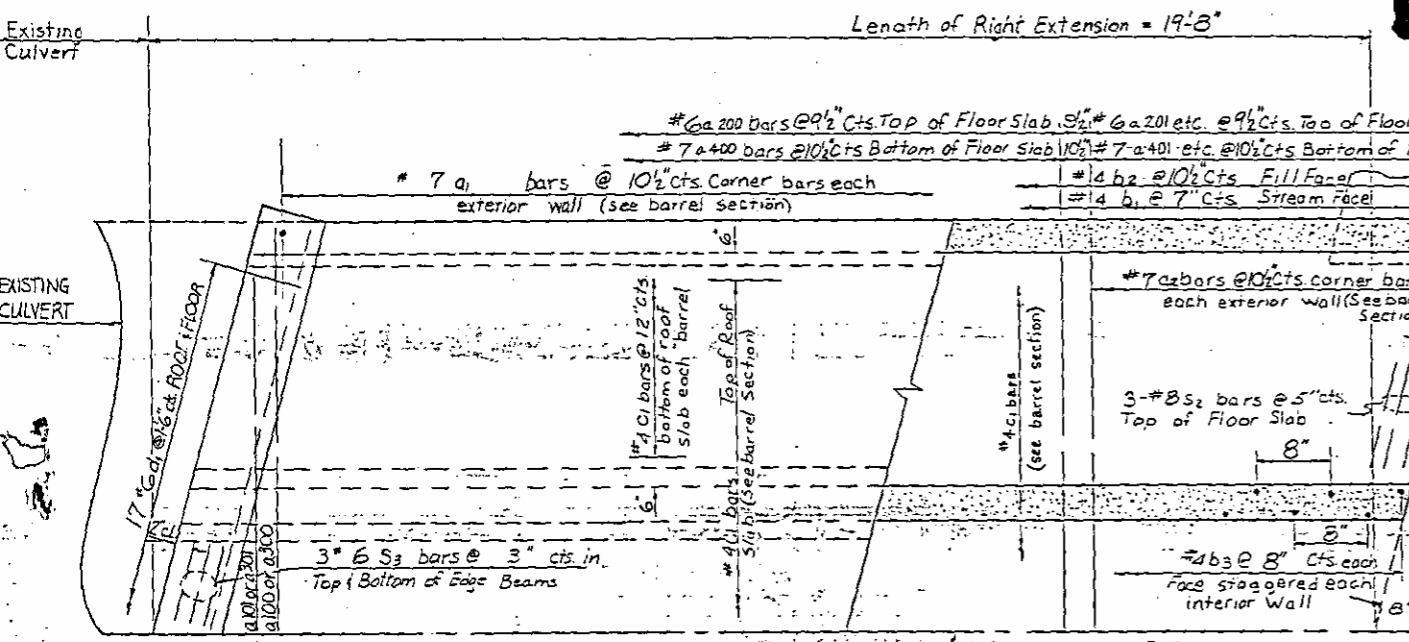
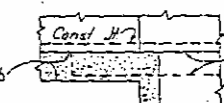
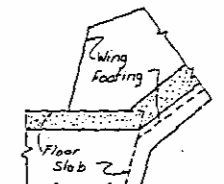
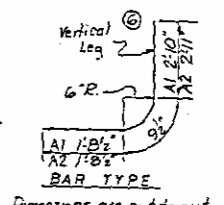
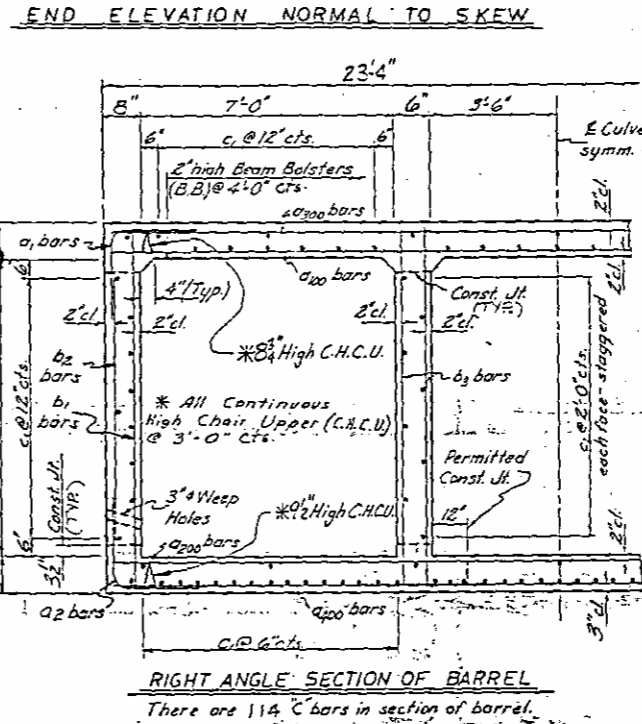


** Weep holes shall be located 6\"/>



FINAL ESTIMATE PLANS #355



NOTES
 ASSUME LIVE LOAD HS20-44 OR ALTERNATE LOADING.
 DESIGN FILL 26.86'
 FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.
 3\"/>

AT THE CONTRACTORS OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL AND BOTH FACES OF INTERIOR WALLS ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.
 FOR NOTE REGARDING SETTING OF DOUELS SEE SHEET S-N.

ALL REINFORCING STEEL SHALL BE GRADE 60.
 PAYMENT FOR THE REMOVAL OF THE EXISTING CULVERT WING WALLS AND OTHER PARTS NECESSARY FOR THE PROPOSED EXTENSION OF THE CULVERT SHALL BE INCLUDED IN PAYMENT FOR THE VARIOUS CONTRACT ITEMS. NO SEPARATE PAYMENT SHALL BE MADE.

FOR TEMPORARY SUPPORT OF SEWER MAIN, SEE UTILITY SPECIAL PROVISIONS.

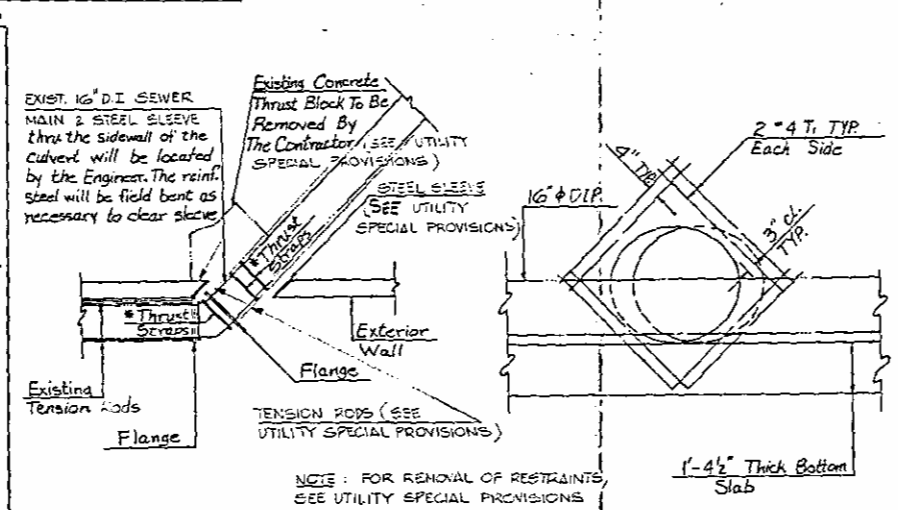
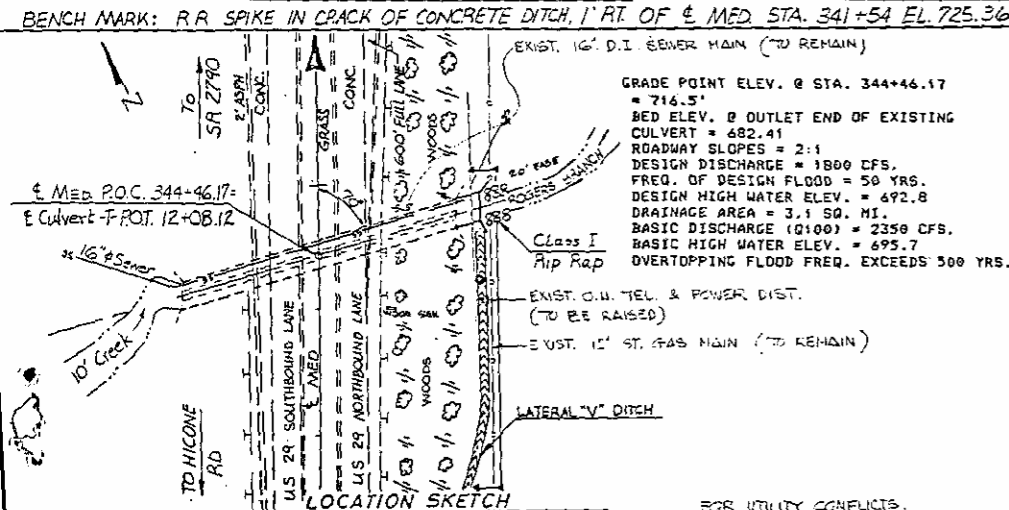
I HEREBY CERTIFY THAT THIS STRUCTURE WAS BUILT ACCORDING TO PLANS EXCEPT AS NOTED HEREIN.
 SIGNED _____ DATE 12-9-87
 RESIDENT ENGINEER

REINFORCING STEEL BAR SCHEDULE

BAR NO.	SIZE	TYP	LNTH	WT.	BAR NO.	SIZE	TYP	LNTH	WT.
A100	18	5	STR 22-11	430	A306	2	7	STR 8-2	33
A101	4	5	STR 19-2	80	A307	2	7	STR 5-9	24
A102	4	5	STR 15-9	66	A308	2	7	STR 3-4	14
A103	4	5	STR 12-4	51	A400	13	7	STR 22-11	609
A104	4	5	STR 8-10	37	A401	2	7	STR 20-2	82
A105	4	5	STR 5-5	23	A402	2	7	STR 17-9	73
A106	4	5	STR 2-0	8	A403	2	7	STR 15-5	53
A200	15	3	STR 22-11	514	A404	2	7	STR 13-0	63
A201	2	6	STR 20-5	61	A405	2	7	STR 10-7	43
A202	2	6	STR 18-3	55	A406	2	7	STR 8-2	33
A203	2	6	STR 16-1	48	A407	2	7	STR 5-9	24
A204	2	6	STR 13-11	42	A408	2	7	STR 3-4	14
A205	2	6	STR 11-9	35	A1	46	7	6	5-4
A206	2	6	STR 9-7	29	A2	46	7	6	5-5
A207	2	6	STR 7-4	22	B1	68	4	STR 10-1	458
A208	2	6	STR 5-2	16	B2	46	4	STR 7-4	225
A209	2	6	STR 3-0	9	B3	120	4	STR 10-1	808
A300	13	7	STR 22-11	609	C1	114	4	STR 19-6	1485
A301	2	7	STR 20-2	82	D1	34	6	STR 2-6	128
A302	2	7	STR 17-9	73	G1	4	5	STR 24-5	102
A303	2	7	STR 15-5	63	G2	6	8	STR 24-5	391
A304	2	7	STR 13-0	53	G3	12	6	STR 24-5	440
A305	2	7	STR 10-7	43	T1	16	4	STR 4-2	45
				*****	TOTAL				8,608

TOTAL STRUCTURE QUANTITIES	
TEMP. SUPPORT OF EXIST. 1/2\"/>	LUMP SUM
CLASS A CONCRETE BARREL @ 2.936 CY/FT	57.7 C.Y.
WING ETC.	14.9 C.Y.
TOTAL	72.6 C.Y.
REINFORCING STEEL	8608 LBS.
BARREL	672 LBS.
WINGS ETC.	9280 LBS.
TOTAL	16
Culvert Excavation	Lump Sum

PROJECT No. 8.1490701
 GUILFORD COUNTY
 STATION: 344+46.17 ± MED.

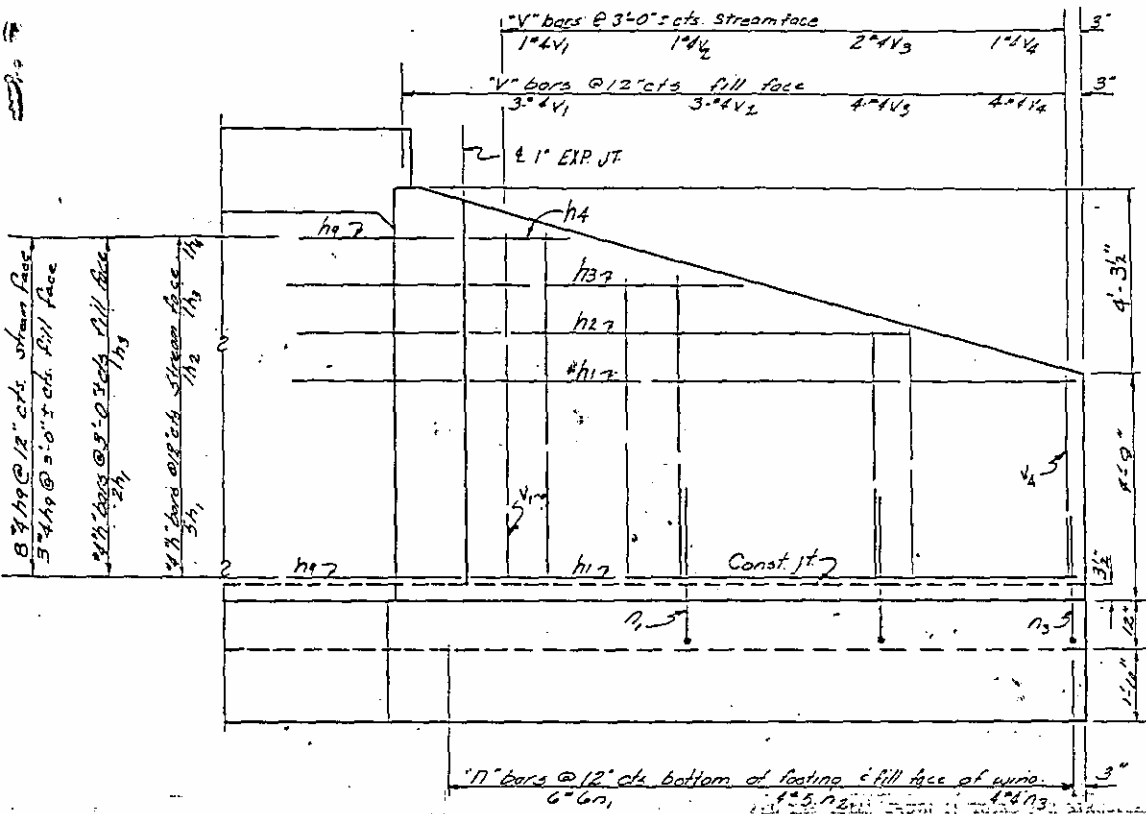


ASSEMBLED BY S.M. ANNIS DATE 10-15-84
 CHECKED BY E.B. ARIDI DATE 1-10-85
 DRAWN BY R.E. HAWKES DATE 11-10-77
 CHECKED BY JOEL A. JABARSA DATE 11-23-77

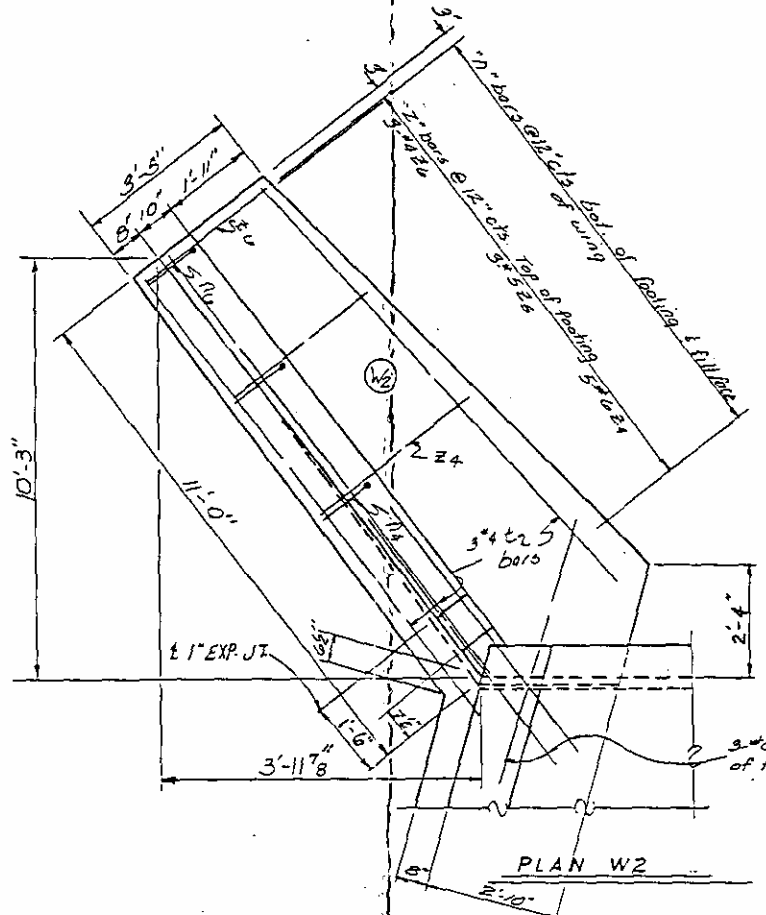
NOTE: FOR REMOVAL OF RESTRAINTS, SEE UTILITY SPECIAL PROVISIONS.
 PLAN
 ELEVATION
 DETAIL: EXISTING SEWER MAIN THRU WALL

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 RIGHT EXTENSION
 BARREL STANDARD
 TRIPLE 7 FT. X 8 FT.
 CONCRETE BOX CULVERT
 TO SKEW
 1971

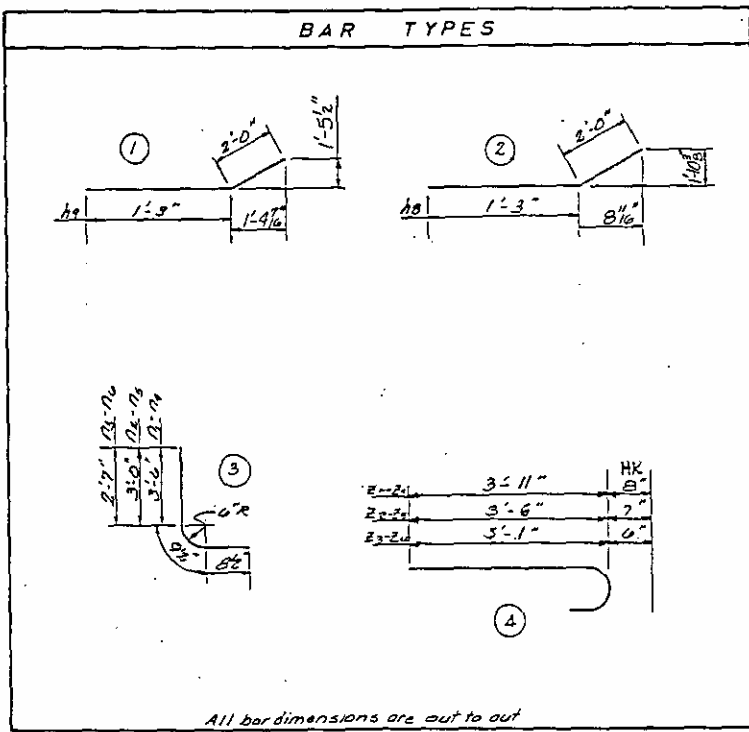
REVISIONS				
NO.	BY	DATE	NO.	BY
1			2	
2			4	



ELEVATION W1



PLAN W2



NOTES

THIS STANDARD COVERS THE CONSTRUCTION OF THE 2 WINGS FOR ANY REINFORCED CONCRETE BOX CULVERT FOR THE HEIGHT, FILL SLOPE AND SKEW INDICATED. CONCRETE IN CURTAIN WALL AND HEADWALLS TO BE INDICATED IN THE SPACE PROVIDED AND THE TOTAL SHOWN IN TOTAL FOR STRUCTURE. GI BARS IN HEADWALLS TO BE INCLUDED WITH BARREL REINFORCING STEEL.

REINFORCING BAR SCHEDULE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	7	4	STR	12'-7"	59
H2	1	4	STR	8'-10"	6
H3	2	4	STR	5'-7"	7
H4	1	4	STR	2'-1"	1
H5	7	4	STR	9'-1"	42
H6	1	4	STR	6'-4"	4
H7	2	4	STR	3'-10"	5
H8	11	4	2	3'-3"	24
H9	11	4	1	3'-3"	24
N1	6	6	3	5'-0"	45
N2	4	5	3	4'-6"	19
N3	4	4	3	4'-1"	11
N4	5	6	3	5'-0"	38
N5	3	5	3	4'-6"	14
N6	3	4	3	4'-1"	8
S1	6	6	STR	6'-0"	54
T1	3	4	STR	14'-6"	29
T2	3	4	STR	11'-0"	22
V1	4	4	STR	7'-9"	21
V2	4	4	STR	6'-9"	18
V3	6	4	STR	5'-9"	23
V4	5	4	STR	4'-6"	15
V5	3	4	STR	8'-0"	16
V6	4	4	STR	6'-9"	18
V7	4	4	STR	5'-6"	15
V8	4	4	STR	4'-6"	12
Z1	6	6	4	4'-7"	41
Z2	4	5	4	4'-1"	17
Z3	4	4	4	3'-7"	10
Z4	5	6	4	4'-7"	34
Z5	3	5	4	4'-1"	13
Z6	3	4	4	3'-7"	7

REINFORCING STEEL LBS. 672



EXPANSION JOINT DETAIL

WING QUANTITIES

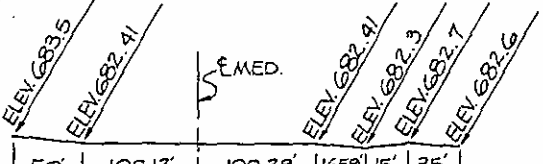
INCLUDED IN TOTAL FOR STRUCTURE	
CLASS A CONCRETE	
WINGS ONLY AS SHOWN	10.2 CY.
HEADWALL AND END CURTAIN WALL AND 2 EDGE BEAMS	4.5 CY.
TOTAL	14.9 CY.
REINFORCING STEEL	672 LB.

PROJECT No. 8.1490701
 GUILFORD COUNTY
 STATION: 344+46.17 E MED

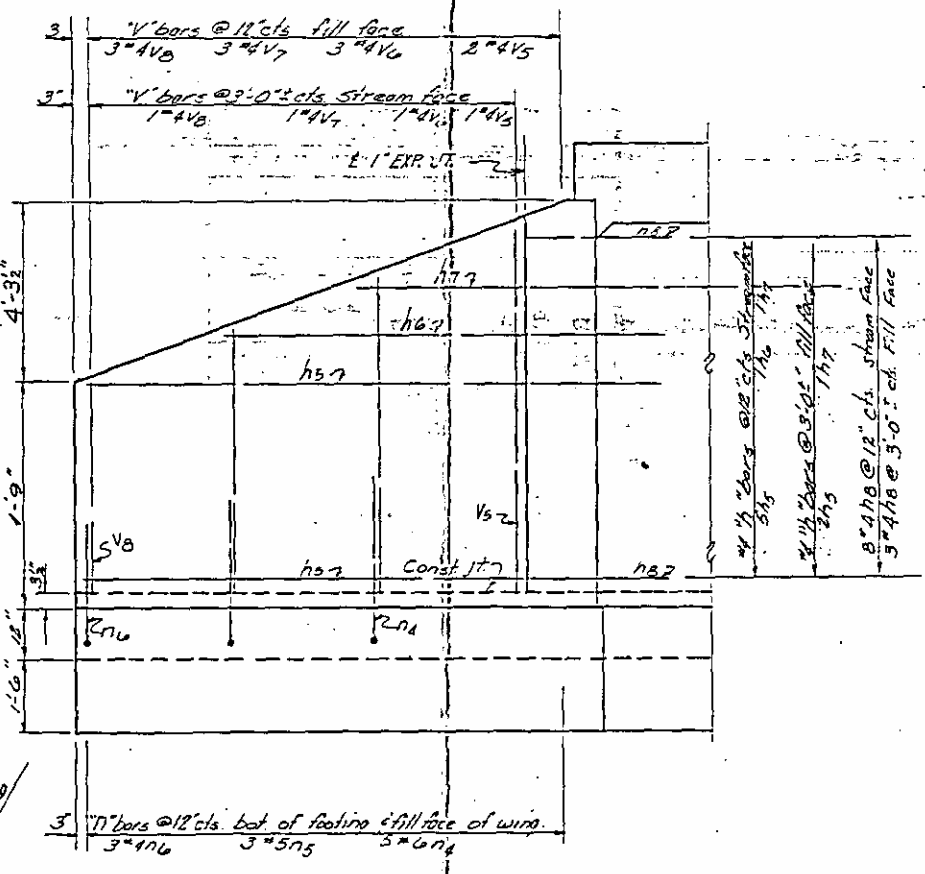
SHEET 2 OF 2
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 STANDARD WINGS
 FOR
 CONCRETE BOX CULVERT
 H-8' SLOPE 2:1

ASSEMBLED BY S.M. ANNIS DATE 10-15-24
 CHECKED BY F.A. BRIDI DATE 10-20-25
 DRAWN BY James Norris DATE 4-12-21
 CHECKED BY Joel A. Johnson DATE Feb. 16, 1972

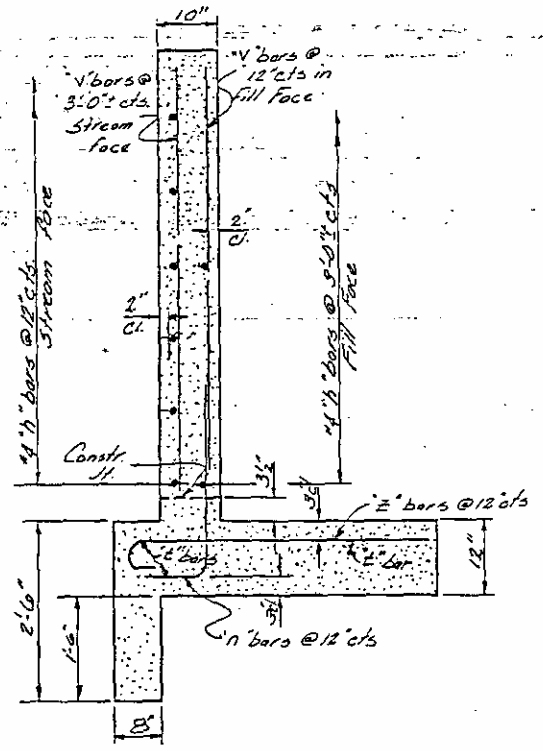
SPECIAL
 STANDARD



PROFILE ALONG & CULVERT



ELEVATION W2



TYPICAL WING SECTION