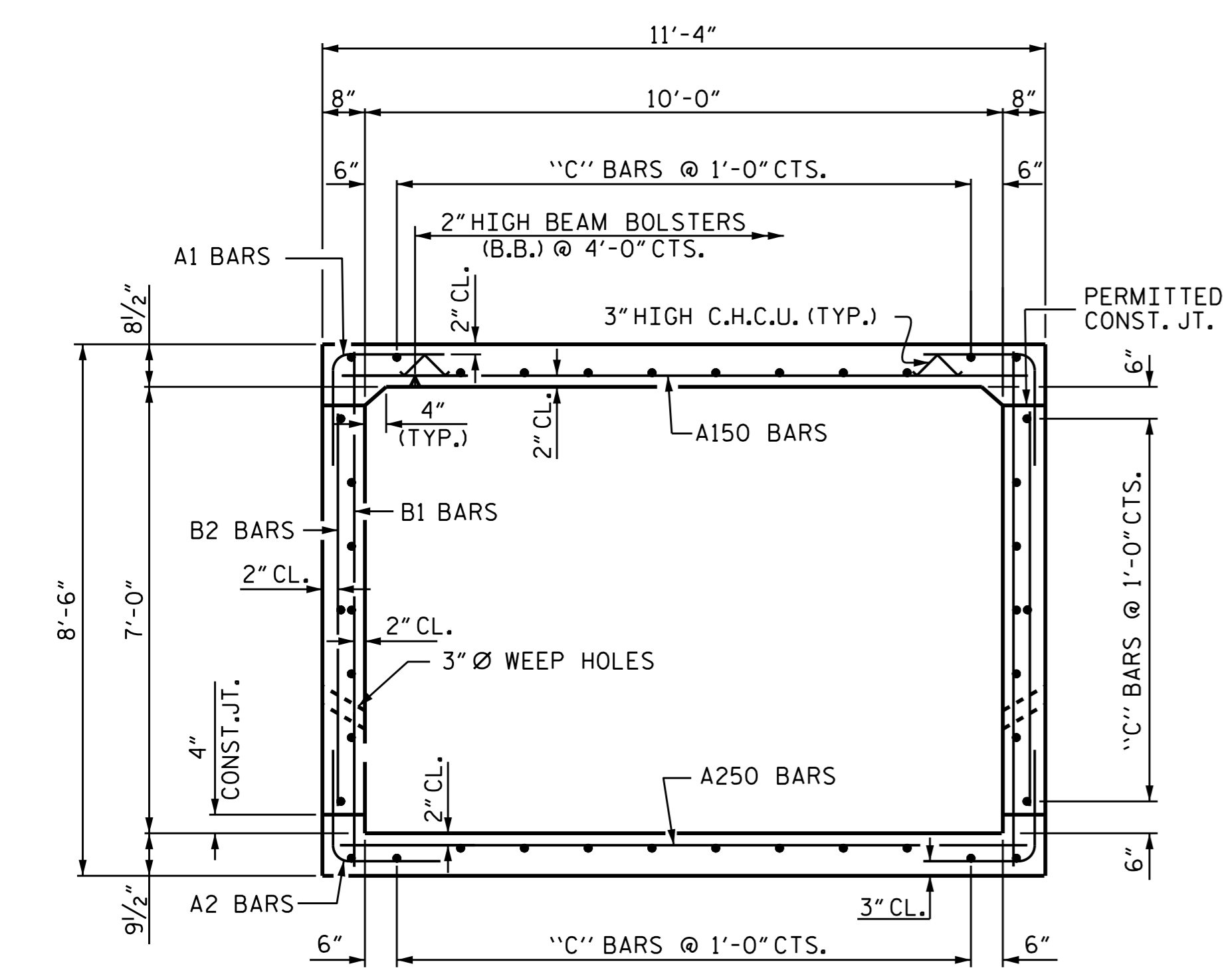
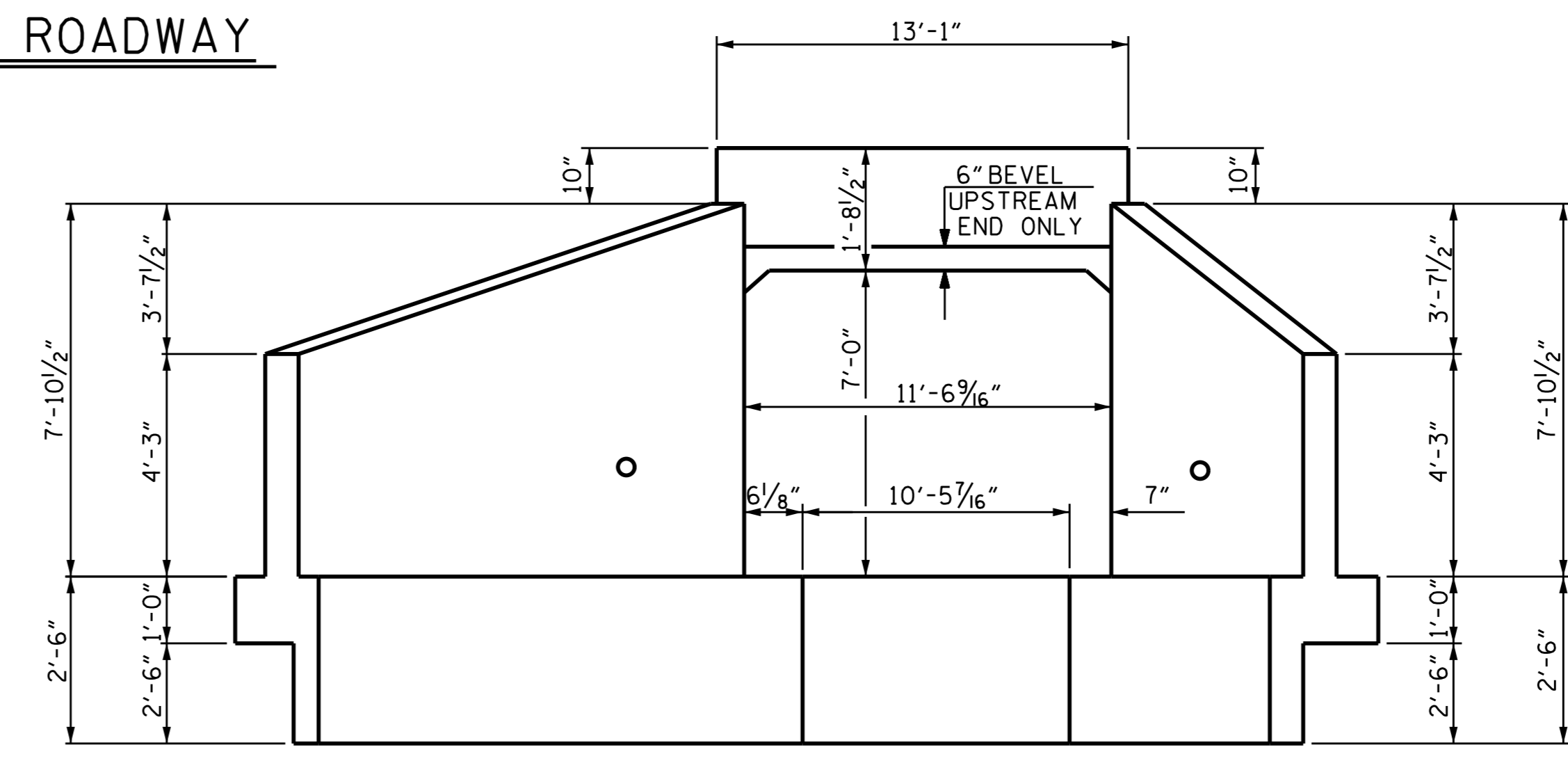


CULVERT SECTION NORMAL TO ROADWAY

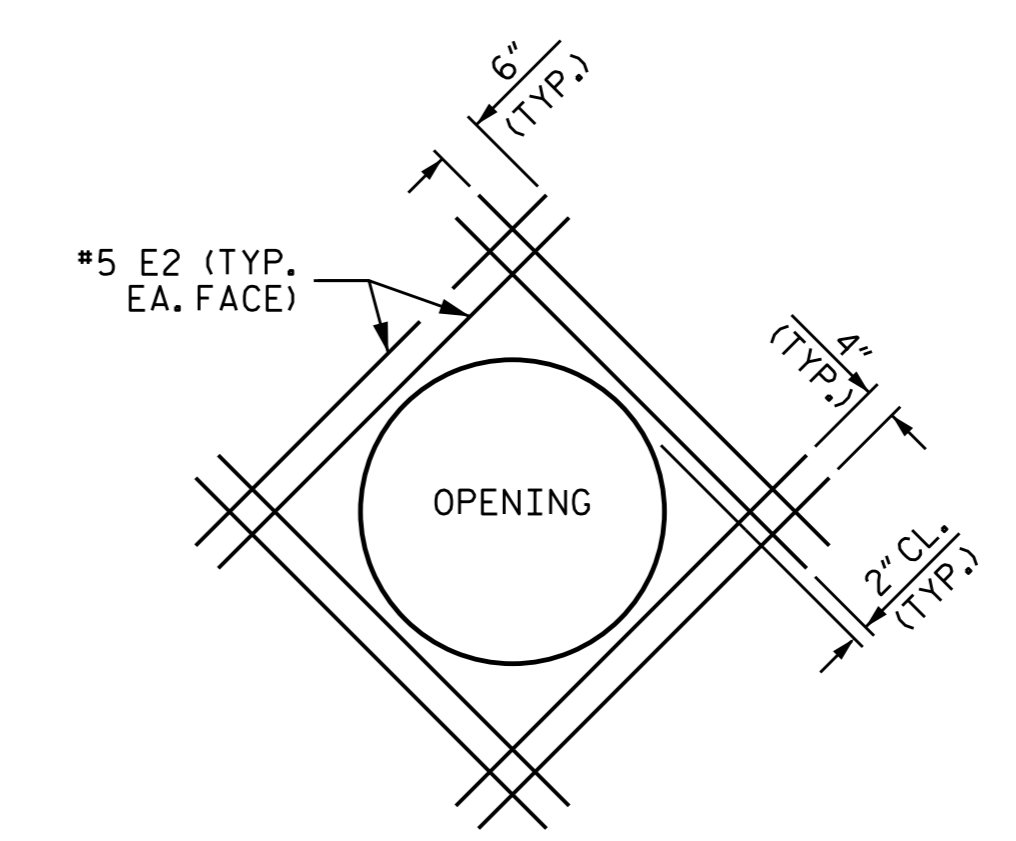


SECTION E-E
THERE ARE 40 "C" BARS IN SECTION OF BARREL

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS



INLET END ELEVATION NORMAL TO SKEW

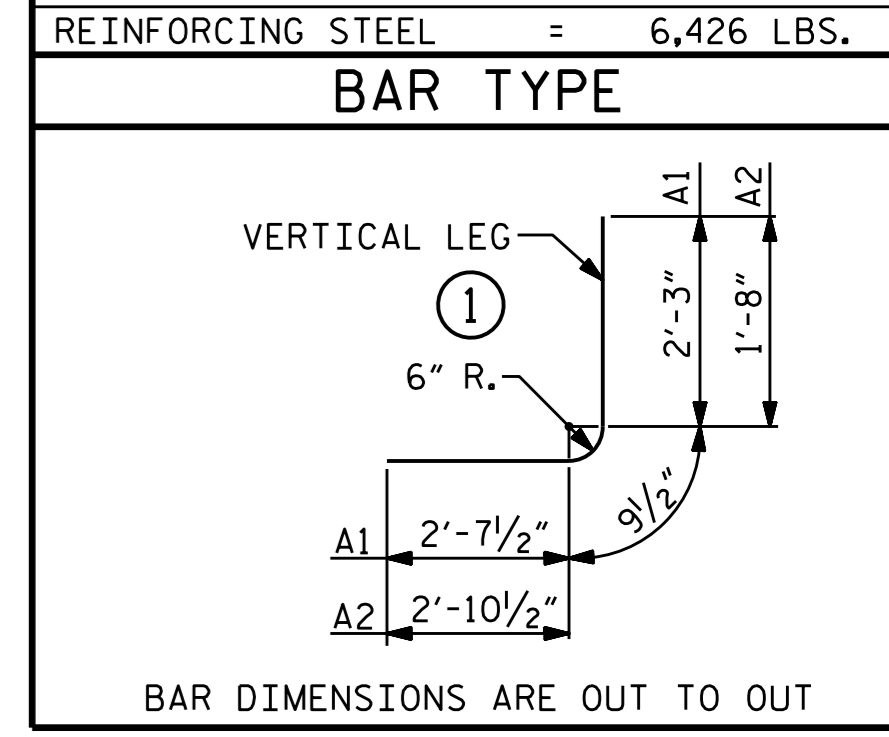


WALL OPENING DETAILS
FOR 18" Ø PIPE THRU EXTERIOR WALL
FIELD CUT & BEND "B" & "C" BARS AS NEEDED TO CLEAR PIPE

BAR SCHEDULE											
PHASE C3-P2 CONSTRUCTION						PHASE C3-P1 CONSTRUCTION					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	598	#4	1	5'-8"	2264	A1	1131	#4	1	5'-8"	4281
A2	598	#4	1	5'-4"	2131	A2	1131	#4	1	5'-4"	4029
A150	299	#6	STR	11'-0"	4940	A150	561	#6	STR	11'-0"	9269
A250	299	#6	STR	11'-0"	4940	A151	2	#6	STR	9'-0"	27
B1	300	#4	STR	8'-0"	1603	A152	2	#6	STR	7'-4"	22
B2	598	#4	STR	6'-4"	2530	A153	2	#6	STR	5'-7"	17
C2	240	#4	STR	26'-11"	4315	A154	2	#6	STR	3'-10"	12
REINFORCING STEEL = 22,723 LBS.						REINFORCING STEEL = 43,441 LBS.					

SPlice LENGTHS CHART		
BAR	SIZE	SPlice LENGTH
"C"	#4	1'-11"

PHASE C3-P3 CONSTRUCTION					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A1	170	#4	1	5'-8"	644
A2	170	#4	1	5'-4"	606
A150	85	#6	STR	11'-0"	1404
A250	85	#6	STR	11'-0"	1404
B1	86	#4	STR	8'-0"	460
B2	170	#4	STR	6'-4"	719
C3	80	#4	STR	22'-3"	1189
REINFORCING STEEL = 6,426 LBS.					



BAR DIMENSIONS ARE OUT TO OUT

TOTAL CULVERT #3 QUANTITIES					
ITEM	C3-P1 PHASE I	C3-P2 PHASE II	C3-P3 PHASE III	TOTAL	
CLASS A CONCRETE					
BARREL @ 0.979 CY/FT	277.6	146.4	41.6	465.6	C.Y.
WINGS ETC.	11.1	--	--	11.1	C.Y.
SUBTOTAL	288.7	146.4	41.6	476.7	C.Y.
REINFORCING STEEL					
BARREL & SILLS	43,422	22,723	6,426	72,571	LBS.
WINGS ETC.	660	--	--	660	LBS.
SUBTOTAL	44,082	22,723	6,426	73,231	LBS.
CULVERT EXCAVATION	LUMP SUM	LUMP SUM	LUMP SUM	LUMP SUM	
FOUNDATION COND. MAT'L	307	162	46	514	TONS

PROJECT NO. U-2524D
GUILFORD COUNTY
 STATION: 2+22.93 -SPCY8-

SHEET 2 OF 5
 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 BARREL STANDARD
 CULVERT #3
 SINGLE 10' X 7' RCBC
 C3-P1, C3-P2 & C3-P3
 127°-05'-21" SKEW



Designed by
 Ting Fang 8/16/2016

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

REVISED 11-19-99 BY M.M. CHECKED BY R.M.W.
 REDRAWN NOV. 1990 BY TSS. CHECKED BY ARB

ASSEMBLED BY : M. SHAHIDI	DATE : 6/2/16	SPECIAL
CHECKED BY : T. H. FANG	DATE : 7/6/16	
DRAWN BY : RALPH D. UNDERWOOD	DATE : MAY 1971	STANDARD
CHECKED BY : JOEL A. JOHNSON	DATE : JULY 1971	