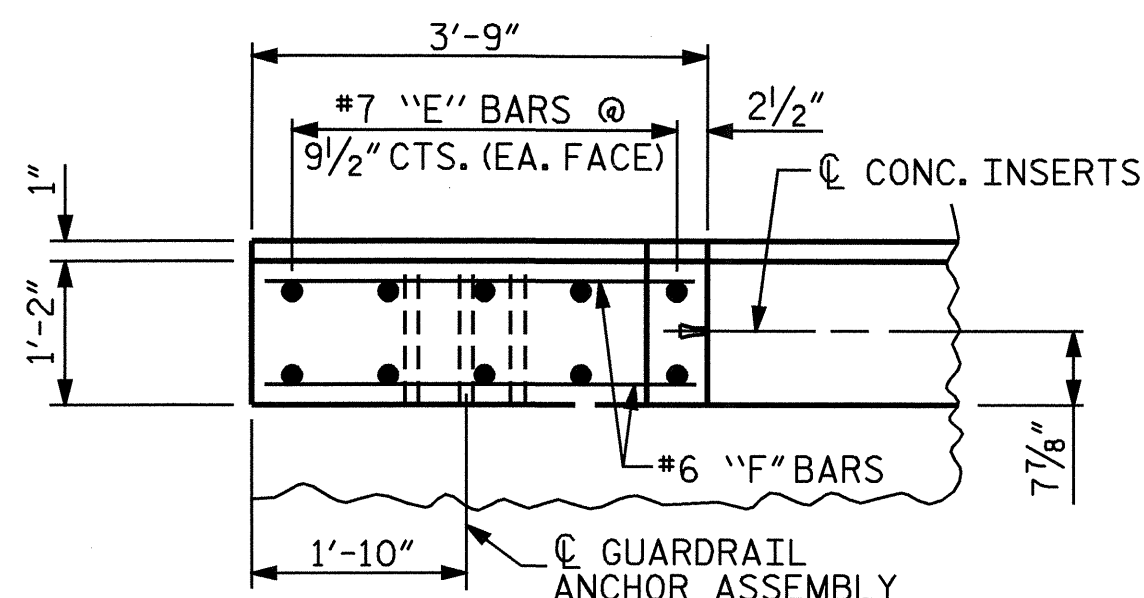
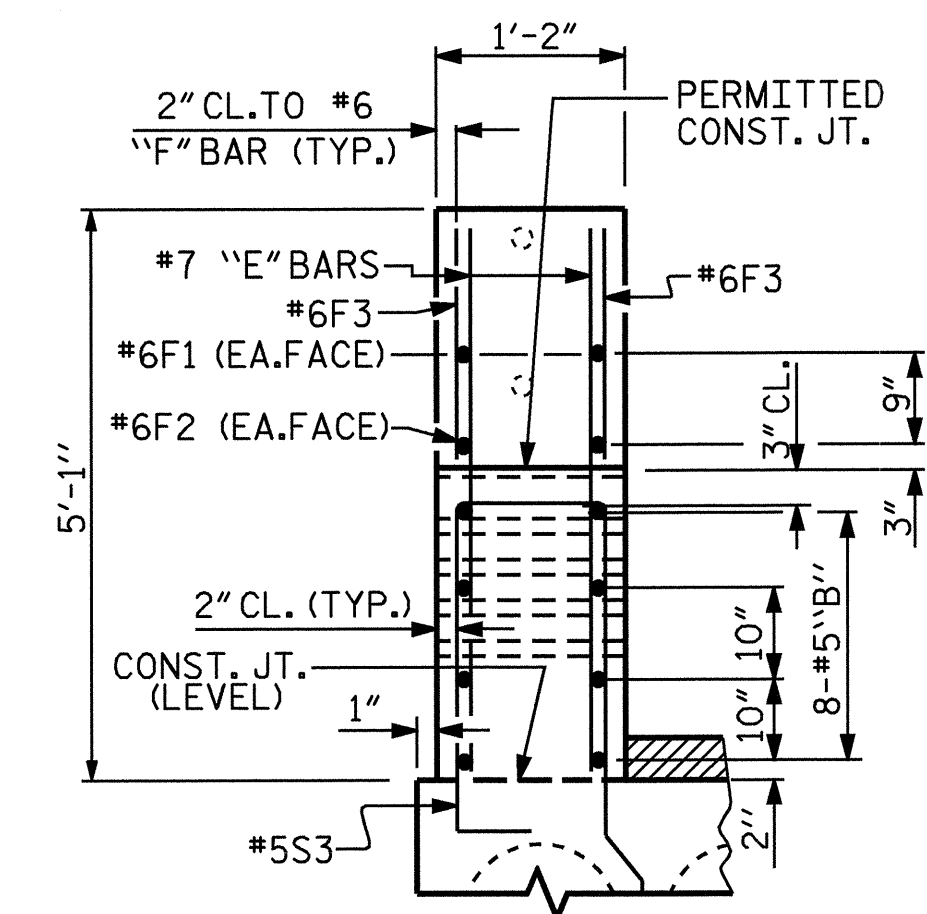


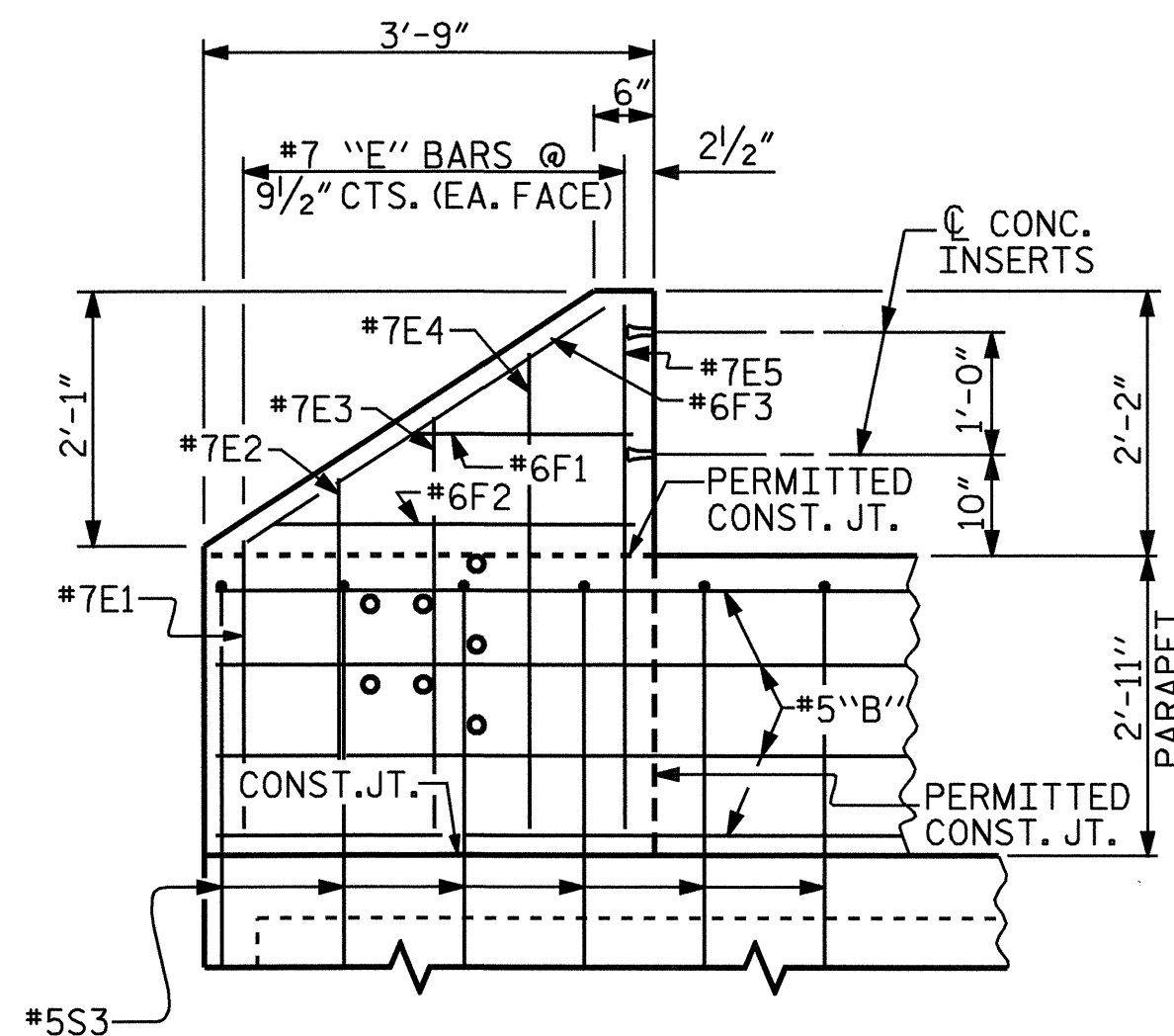
PLAN OF PARAPET



PLAN OF END POST

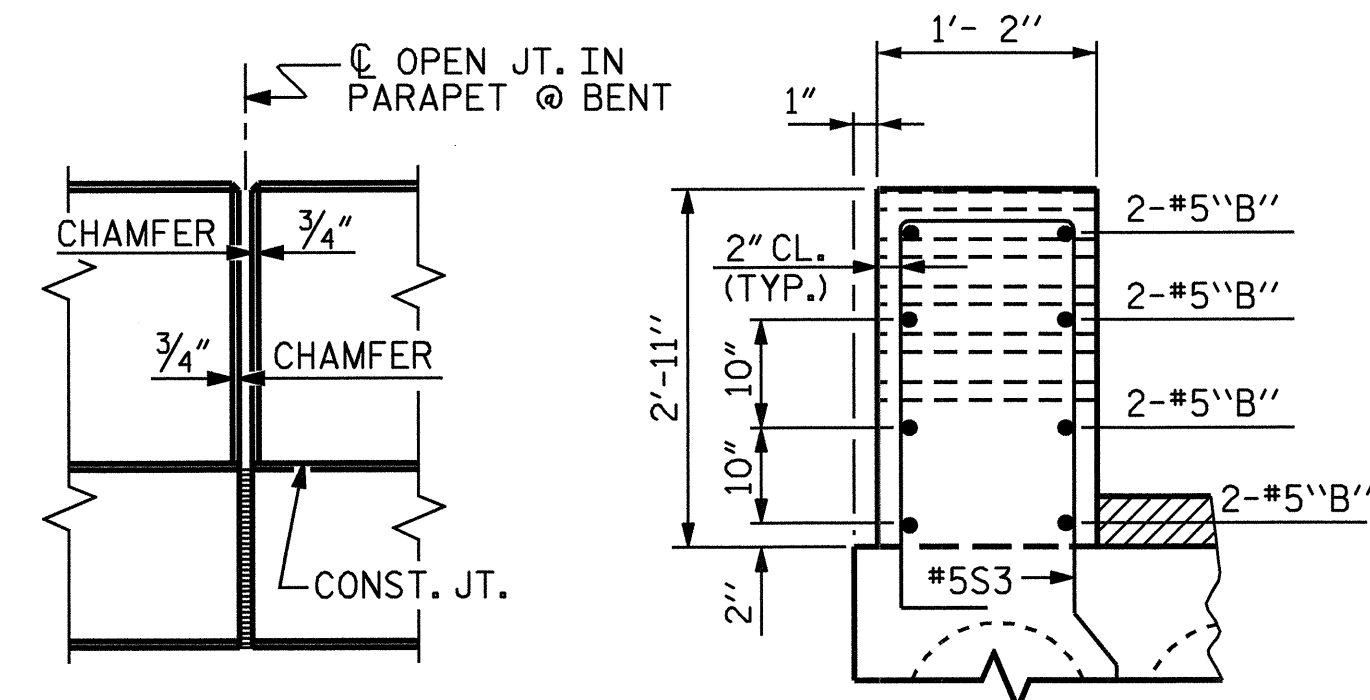


END VIEW



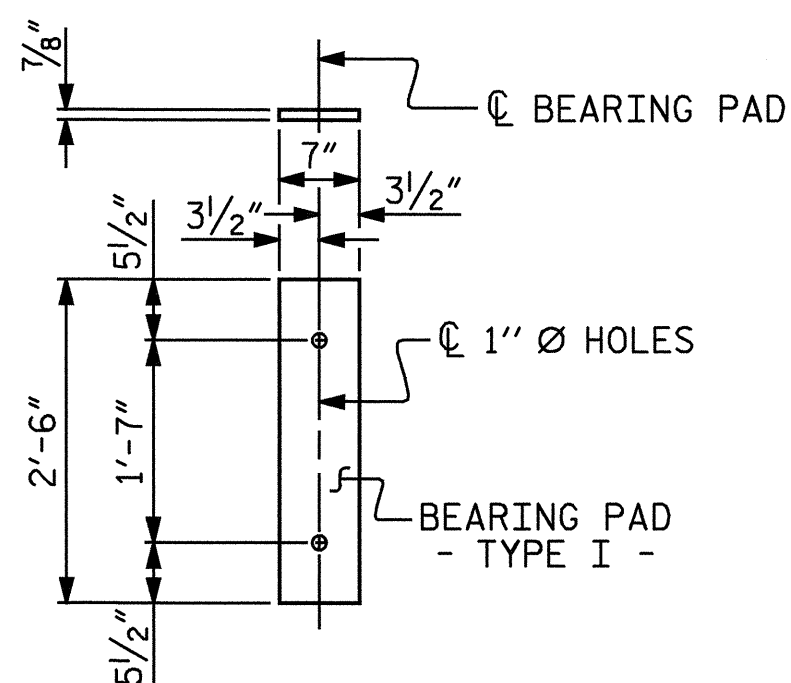
ELEVATION

PARAPET AND END POST FOR TWO BAR RAIL



ELEVATION AT EXPANSION JOINT

SECTION THRU PARAPET



FIXED END (TYPE I - 66 REQ'D)

PARAPET DETAILS

ELASTOMERIC BEARING DETAILS

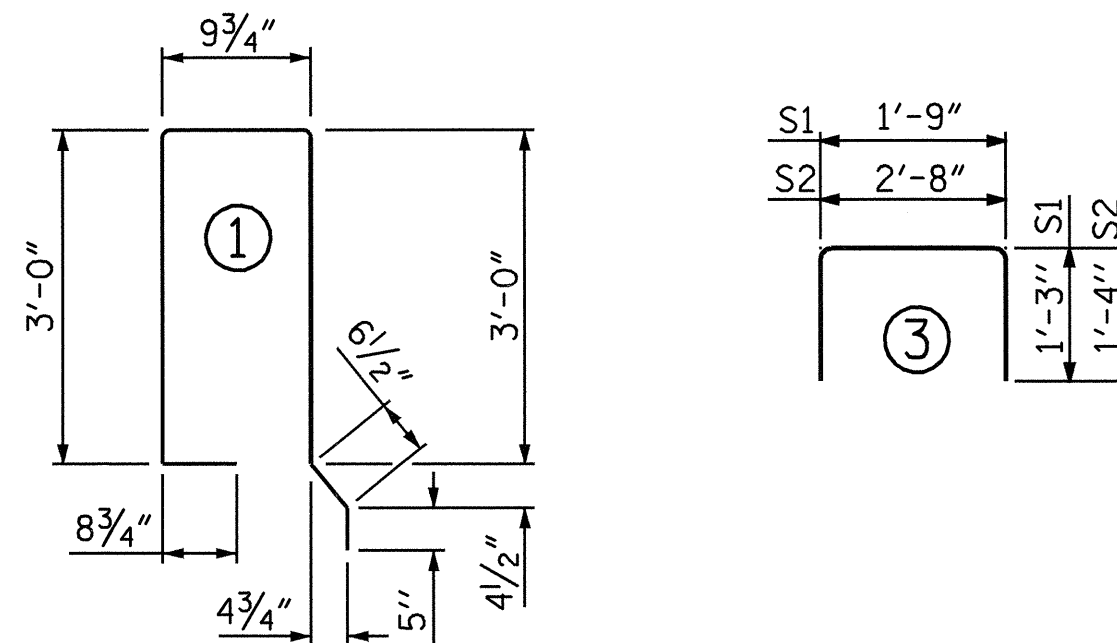
NOTE: ELASTOMERIC BEARING IS 60 DUROMETER

GRADE 270 STRANDS	
AREA (SQUARE INCHES)	0.6 Ø L.R.
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

	DEAD LOAD DEFLECTION AND CAMBER		
	SPAN A 3'-0" x 1'-9"	SPAN B 3'-0" x 1'-9"	SPAN C 3'-0" x 1'-9"
CAMBER (SLAB ALONE IN PLACE)	2/8" ↑	4/16" ↑	1/16" ↑
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD**	3/8" ↓	3/4" ↓	1/8" ↓
FINAL CAMBER	1 3/4" ↑	3 1/16" ↑	7/16" ↑

** INCLUDES FUTURE WEARING SURFACE

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE CORED SLAB SECTION

SPAN	BAR	NUMBER	SIZE	TYPE	EXTERIOR UNIT		INTERIOR UNIT	
					LENGTH	WEIGHT	LENGTH	WEIGHT
SPAN A	B1	4	#4	STR	25'-2"	67	25'-2"	67
	S1	8	#6	3	4'-3"	51	4'-3"	51
	S2	96	#4	3	5'-4"	342	5'-4"	342
	* S3	50	#5	1	8'-6"	443		
REINFORCING STEEL					LBS.	460		460
* EPOXY COATED REINFORCING STEEL					LBS.	443		443
5,000 P.S.I. CONCRETE					CU. YDS.	6.9		6.9
0.6 Ø L.R. STRANDS					No.	16		16
SPAN B	B2	6	#4	STR	21'-1"	85	21'-1"	85
	S1	8	#6	3	4'-3"	51	4'-3"	51
	S2	118	#4	3	5'-4"	420	5'-4"	420
	* S3	61	#5	1	8'-6"	541		
REINFORCING STEEL					LBS.	556		556
* EPOXY COATED REINFORCING STEEL					LBS.	541		541
6,000 P.S.I. CONCRETE					CU. YDS.	8.4		8.4
0.6 Ø L.R. STRANDS					No.	24		24
SPAN C	B3	4	#4	STR	17'-8"	47	17'-8"	47
	S1	8	#6	3	4'-3"	51	4'-3"	51
	S2	66	#4	3	5'-4"	235	5'-4"	235
	* S3	35	#5	1	8'-6"	310		
REINFORCING STEEL					LBS.	333		333
* EPOXY COATED REINFORCING STEEL					LBS.	310		310
5,000 P.S.I. CONCRETE					CU. YDS.	4.8		4.8
0.6 Ø L.R. STRANDS					No.	12		12

BILL OF MATERIAL FOR CONCRETE END POST & PARAPET

BAR	BARS PER SPAN			TOTAL NO.	SIZE	TYPE	LENGTH	WEIGHT
	SPAN A	SPAN B	SPAN C					
* B4	32			32	#5	STR	24'-0"	801
* B5		32		32	#5	STR	29'-7"	987
* B6			32	32	#5	STR	16'-6"	551
* E1	4		4	8	#7	STR	2'-9"	45
* E2	4		4	8	#7	STR	3'-3"	53
* E3	4		4	8	#7	STR	3'-9"	61
* E4	4		4	8	#7	STR	4'-3"	69
* E5	4		4	8	#7	STR	4'-8"	76
* F1	4		4	8	#6	STR	1'-10"	22
* F2	4		4	8	#6	STR	3'-0"	36
* F3	4		4	8	#6	STR	3'-4"	40
* EPOXY COATED REINFORCING STEEL					LBS.		2741	
CLASS AA CONCRETE					CU. YDS.		36.7	
TOTAL LIN. FT. OF CONCRETE END POST & PARAPET							285.50	

NOTES

ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60.

RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.

THE 2 1/2" Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH GROUT.

THE JOINT SEALER MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF TYPE SL LOW MODULUS SILICONE SEALANT. THE 2" Ø BACKER ROD SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER. SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.

WHEN CORED SLABS ARE CAST, A POSITIVE HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDWAYS. THIS SYSTEM SHALL BE DESIGNED TO BE LEFT IN PLACE UNTIL THE CONCRETE HAS REACHED RELEASE STRENGTH. AT LEAST THREE WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.

THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN 4000 PSI IN SPAN A & C AND 5100 PSI IN SPAN B.

ALL REINFORCING STEEL IN PARAPET SHALL BE EPOXY COATED.

PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.

APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE MEMBERS, SEE SPECIAL PROVISIONS.

CORED SLABS REQUIRED

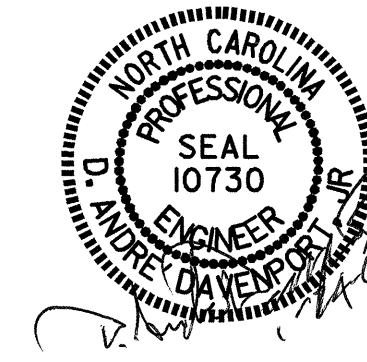
SPAN A			
	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	48'-9 3/4"	97'-7 1/2"
INTERIOR C.S.	9	48'-9 3/4"	439'-3 3/4"
TOTAL	11	----	536'-11 1/4"
SPAN B			
	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	59'-10 1/2"	119'-9"
INTERIOR C.S.	9	59'-10 1/2"	538'-10 1/2"
TOTAL	11	----	658'-7 1/2"
SPAN C			
	NUMBER	LENGTH	TOTAL LENGTH
EXTERIOR C.S.	2	33'-9 3/4"	67'-7 1/2"
INTERIOR C.S.	9	33'-9 3/4"	304'-3 3/4"
TOTAL	11	----	371'-11 1/4"

PROJECT NO. B-4224
PENDER/DUPLIN COUNTY
STATION: 17+62.50 -L-

SHEET 8 OF 8

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

3'-0" X 1'-9"
PRESTRESSED
CONCRETE CORED
SLAB UNIT



REVISIONS						SHEET NO. S-11
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 28
2			4			

ASSEMBLED BY : S. P. LAM	DATE : 2/18/05
CHECKED BY : A. SORSENGINH	DATE : 9/05
DRAWN BY : WJH 4/89	REV. 10/17/00 RWW/LES
CHECKED BY : FCJ 5/89	REV. 7/10/01 RWW/LES
	REV. 5/17/03RR RWW/JTE