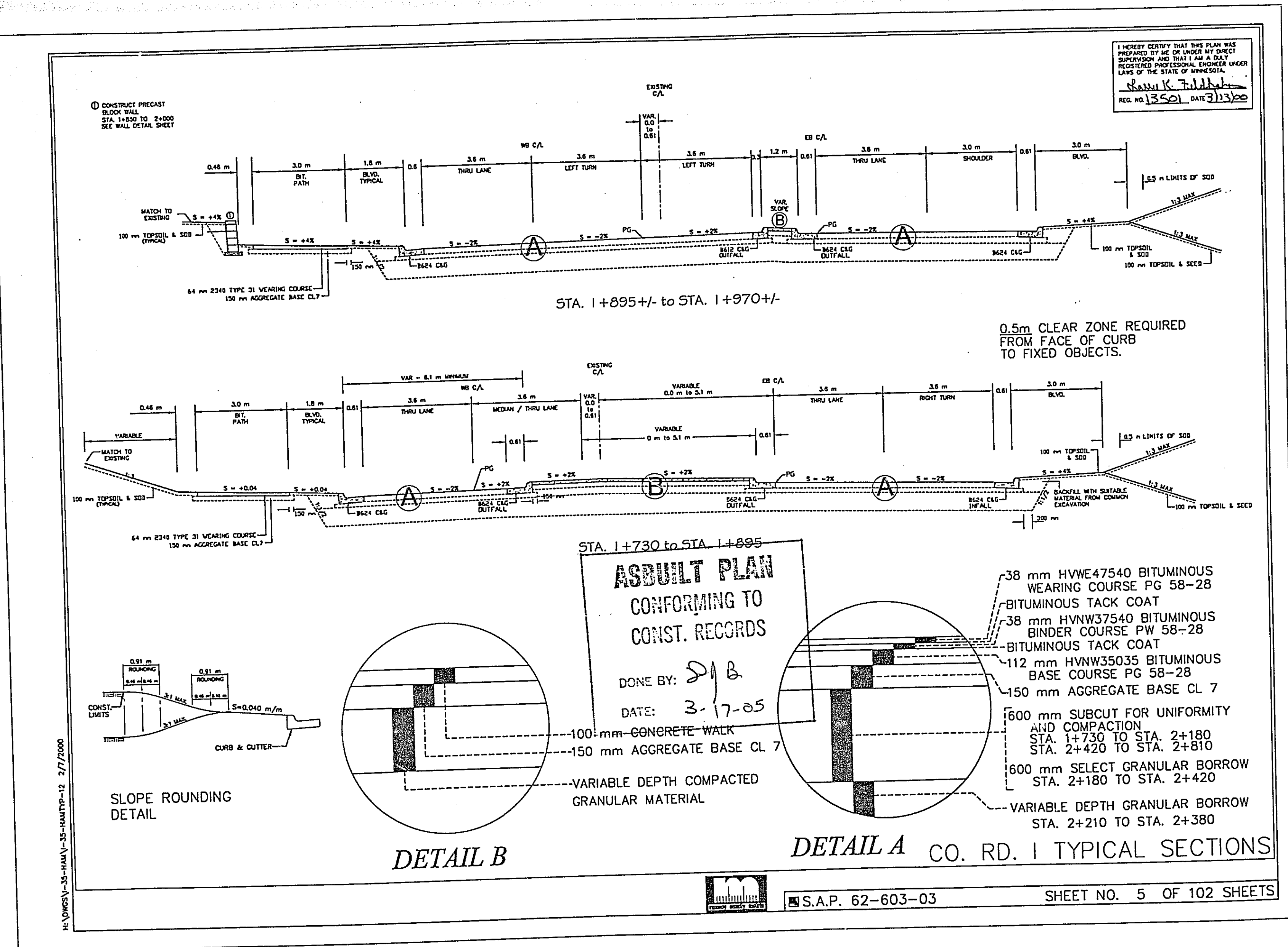
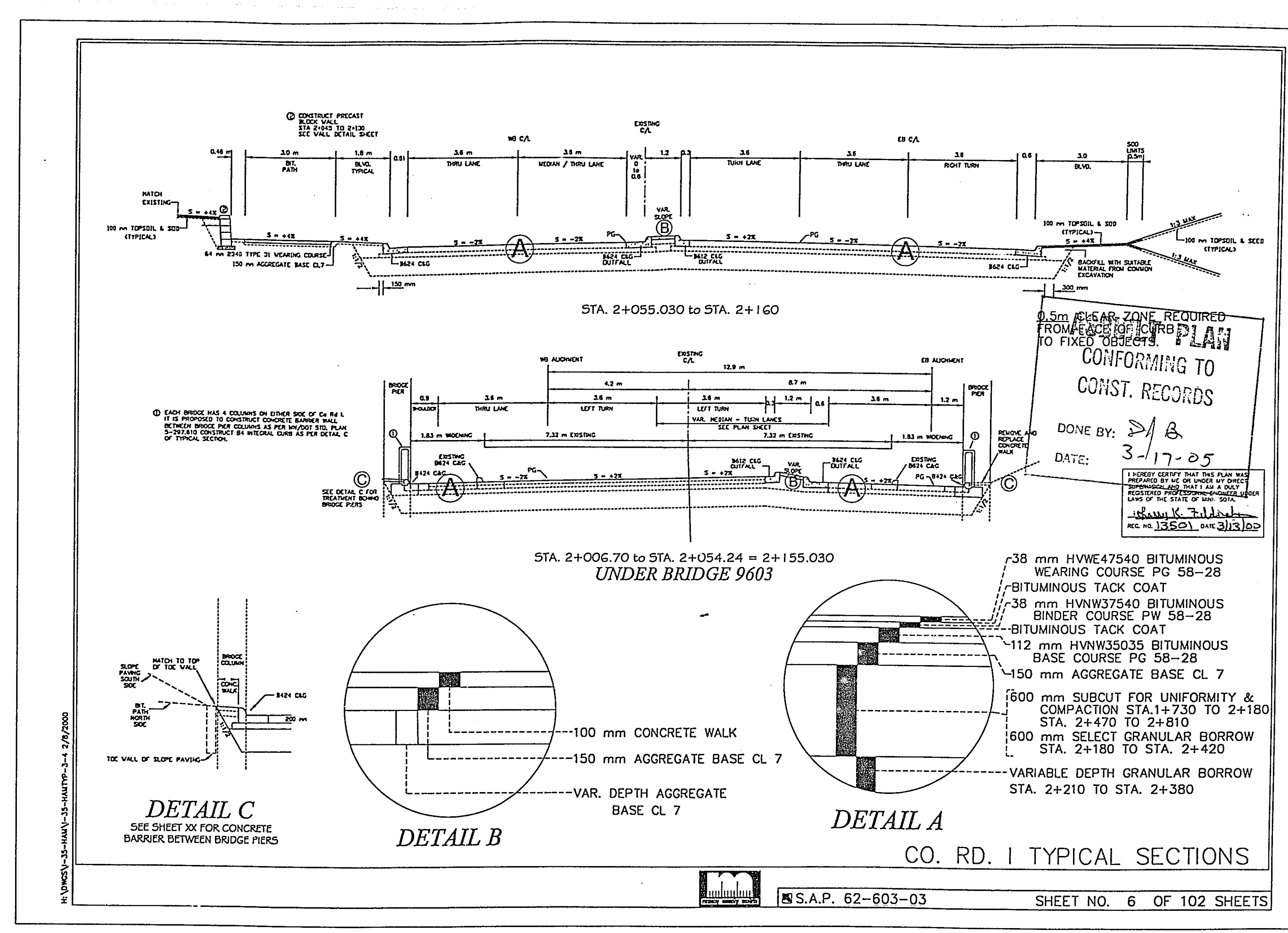
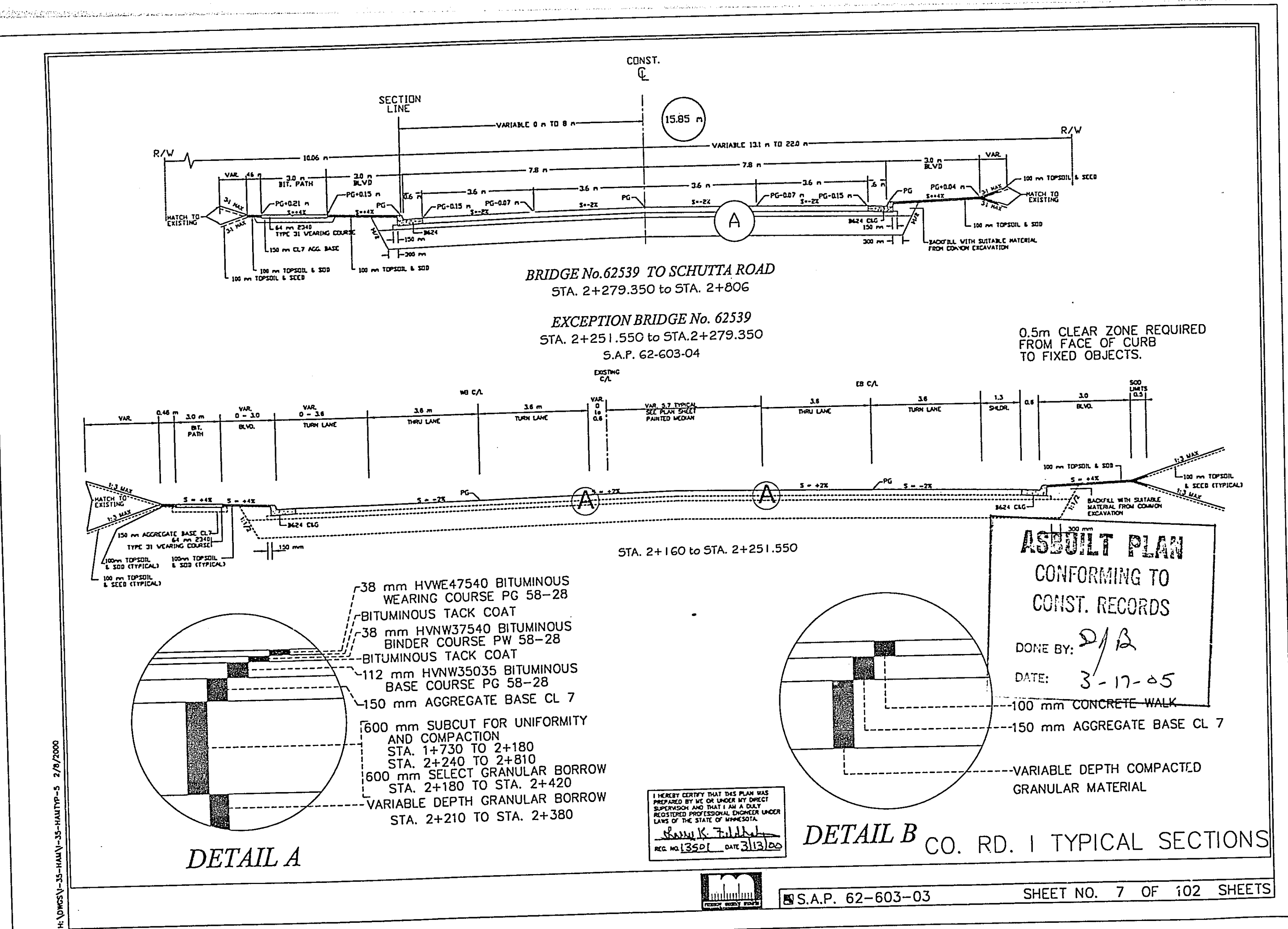




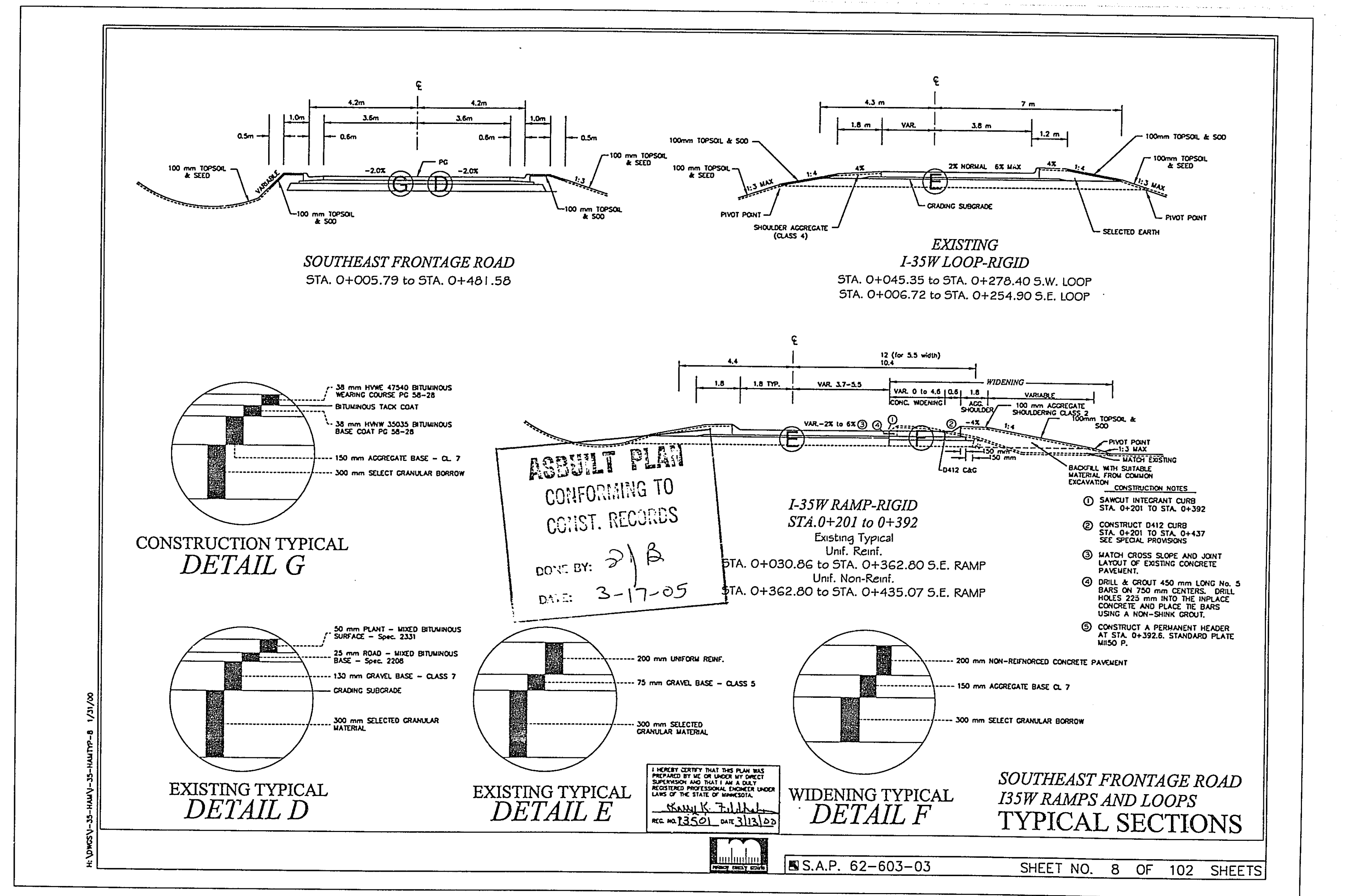
28-189



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D:\DWG\T-10\DWG\CHARTS 2-7-2000

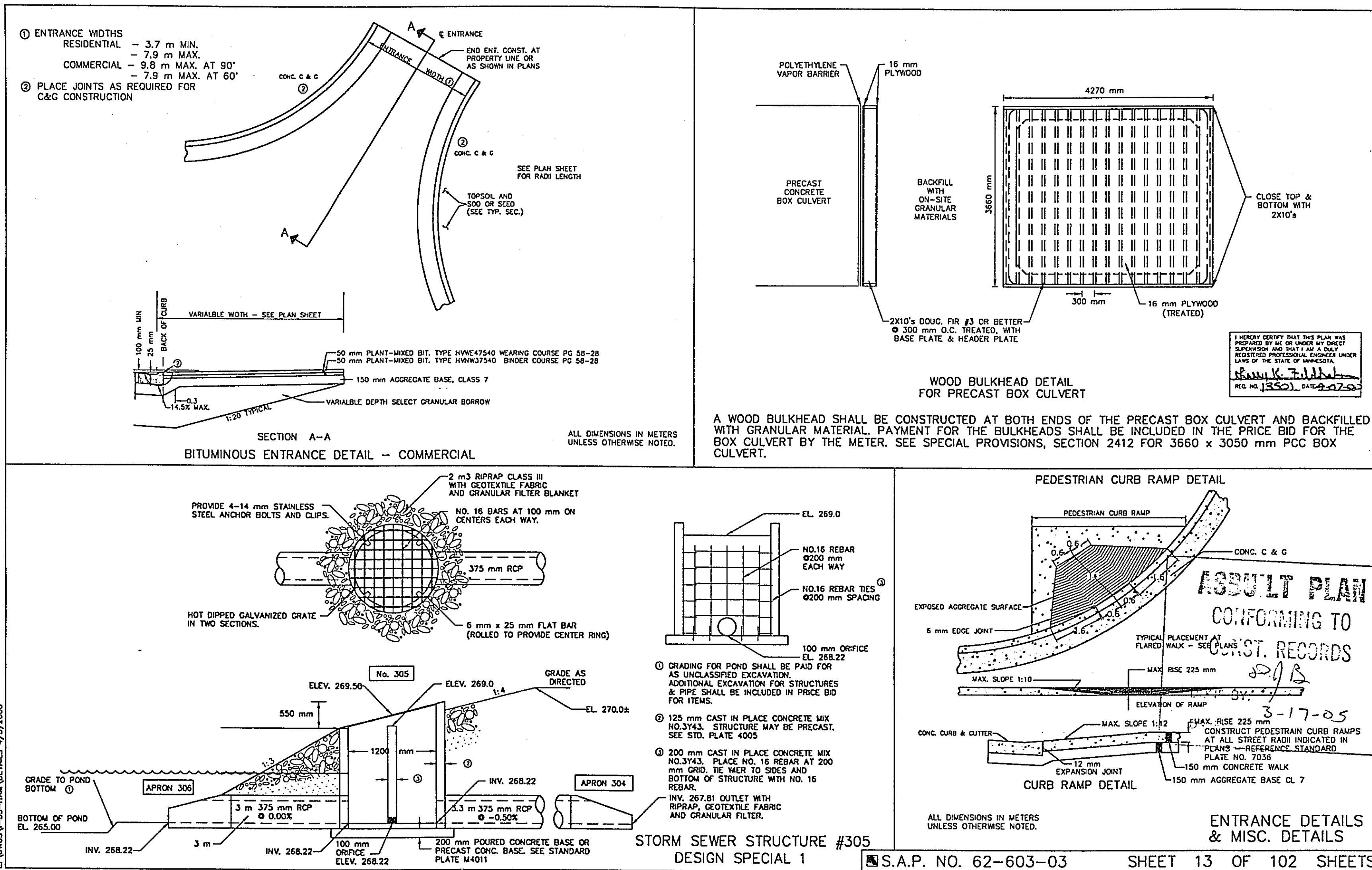
CLEAR & GRUB CHART

STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TIME EACH	GRUB TIME EACH
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14814 TO 14815	RT 13 TO 12	100 mm ELUS	3	3
14815 TO 14816	RT 13 TO 12	100 mm ELUS	3	3
14816 TO 14817	RT 13 TO 12	100 mm ELUS	3	3
14817 TO 14818	RT 13 TO 12	100 mm ELUS	3	3
14818 TO 14819	RT 13 TO 12	100 mm ELUS	3	3
14819 TO 14820	RT 13 TO 12	100 mm ELUS	3	3
14820 TO 14821	RT 13 TO 12	100 mm ELUS	3	3
14821 TO 14822	RT 13 TO 12	100 mm ELUS	3	3
14822 TO 14823	RT 13 TO 12	100 mm ELUS	3	3
14823 TO 14824	RT 13 TO 12	100 mm ELUS	3	3
14824 TO 14825	RT 13 TO 12	100 mm ELUS	3	3
14825 TO 14826	RT 13 TO 12	100 mm ELUS	3	3
14826 TO 14827	RT 13 TO 12	100 mm ELUS	3	3
14827 TO 14828	RT 13 TO 12	100 mm ELUS	3	3
14828 TO 14829	RT 13 TO 12	100 mm ELUS	3	3
14829 TO 14830	RT 13 TO 12	100 mm ELUS	3	3
14830 TO 14831	RT 13 TO 12	100 mm ELUS	3	3
14831 TO 14832	RT 13 TO 12	100 mm ELUS	3	3
14832 TO 14833	RT 13 TO 12	100 mm ELUS	3	3
14833 TO 14834	RT 13 TO 12	100 mm ELUS	3	3
14834 TO 14835	RT 13 TO 12	100 mm ELUS	3	3
14835 TO 14836	RT 13 TO 12	100 mm ELUS	3	3
14836 TO 14837	RT 13 TO 12	100 mm ELUS	3	3
14837 TO 14838	RT 13 TO 12	100 mm ELUS	3	3
14838 TO 14839	RT 13 TO 12	100 mm ELUS	3	3
14839 TO 14840	RT 13 TO 12	100 mm ELUS	3	3
14840 TO 14841	RT 13 TO 12	100 mm ELUS	3	3
14841 TO 14842	RT 13 TO 12	100 mm ELUS	3	3
14842 TO 14843	RT 13 TO 12	100 mm ELUS	3	3
14843 TO 14844	RT 13 TO 12	100 mm ELUS	3	3
14844 TO 14845	RT 13 TO 12	100 mm ELUS	3	3
14845 TO 14846	RT 13 TO 12	100 mm ELUS	3	3
14846 TO 14847	RT 13 TO 12	100 mm ELUS	3	3
14847 TO 14848	RT 13 TO 12	100 mm ELUS	3	3
14848 TO 14849	RT 13 TO 12	100 mm ELUS	3	3
14849 TO 14850	RT 13 TO 12	100 mm ELUS	3	3
14850 TO 14851	RT 13 TO 12	100 mm ELUS	3	3
14851 TO 14852	RT 13 TO 12	100 mm ELUS	3	3
14852 TO 14853	RT 13 TO 12	100 mm ELUS	3	3
14853 TO 14854	RT 13 TO 12	100 mm ELUS	3	3
14854 TO 14855	RT 13 TO 12	100 mm ELUS	3	3
14855 TO 14856	RT 13 TO 12	100 mm ELUS	3	3
14856 TO 14857	RT 13 TO 12	100 mm ELUS	3	3
14857 TO 14858	RT 13 TO 12	100 mm ELUS	3	3
14858 TO 14859	RT 13 TO 12	100 mm ELUS	3	3
14859 TO 14860	RT 13 TO 12	100 mm ELUS	3	3
14860 TO 14861	RT 13 TO 12	100 mm ELUS	3	3
14861 TO 14862	RT 13 TO 12	100 mm ELUS	3	3
14862 TO 14863	RT 13 TO 12	100 mm ELUS	3	3
14863 TO 14864	RT 13 TO 12	100 mm ELUS	3	3
14864 TO 14865	RT 13 TO 12	100 mm ELUS	3	3
14865 TO 14866	RT 13 TO 12	100 mm ELUS	3	3
14866 TO 14867	RT 13 TO 12	100 mm ELUS	3	3
14867 TO 14868	RT 13 TO 12	100 mm ELUS	3	3
14868 TO 14869	RT 13 TO 12	100 mm ELUS	3	3
14869 TO 14870	RT 13 TO 12	100 mm ELUS	3	3
14870 TO 14871	RT 13 TO 12	100 mm ELUS	3	3
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14877 TO 14878	RT 13 TO 12	100 mm ELUS	3	3
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14897 TO 14898	RT 13 TO 12	100 mm ELUS	3	3
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14902 TO 14903	RT 13 TO 12	100 mm ELUS	3	3
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14905 TO 14906	RT 13 TO 12	100 mm ELUS	3	3
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14907 TO 14908	RT 13 TO 12	100 mm ELUS	3	3
14908 TO 14909	RT 13 TO 12	100 mm ELUS	3	3
14909 TO 14910	RT 13 TO 12	100 mm ELUS	3	3
14910 TO 14911	RT 13 TO 12	100 mm ELUS	3	3
14911 TO 14912	RT 13 TO 12	100 mm ELUS	3	3
14912 TO 14913	RT 13 TO 12	100 mm ELUS	3	3
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14958 TO 14959	RT 13 TO 12	100 mm ELUS	3	3
14959 TO 14960	RT 13 TO 12	100 mm ELUS	3	3
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14961 TO 14962	RT 13 TO 12	100 mm ELUS	3	3
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14977 TO 14978	RT 13 TO 12	100 mm ELUS	3	3
14978 TO 14979	RT 13 TO 12	100 mm ELUS	3	3
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14980 TO 14981	RT 13 TO 12	100 mm ELUS	3	3
14981 TO 14982	RT 13 TO 12	100 mm ELUS	3	3
14982 TO 14983	RT 13 TO 12	100 mm ELUS	3	3
14983 TO 14984	RT 13 TO 12	100 mm ELUS	3	3
14984 TO 14985	RT 13 TO 12	100 mm ELUS	3	3
14985 TO 14986	RT 13 TO 12	100 mm ELUS	3	3
14986 TO 14987	RT 13 TO 12	100 mm ELUS	3	3
14987 TO 14988	RT 13 TO 12	100 mm ELUS	3	3
14988 TO 14989	RT 13 TO 12	100 mm ELUS	3	3
14989 TO 14990	RT 13 TO 12	100 mm ELUS	3	3
14990 TO 14991	RT 13 TO 12	100 mm ELUS	3	3
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14992 TO 14993	RT 13 TO 12	100 mm ELUS	3	3
14993 TO 14994	RT 13 TO 12	100 mm ELUS	3	3
14994 TO 14995	RT 13 TO 12	100 mm ELUS	3	3
14995 TO 14996	RT 13 TO 12	100 mm ELUS	3	3
14996 TO 14997	RT 13 TO 12	100 mm ELUS	3	3
14997 TO 14998	RT 13 TO 12	100 mm ELUS	3	3
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15000 TO 15001	RT 13 TO 12	100 mm ELUS	3	3

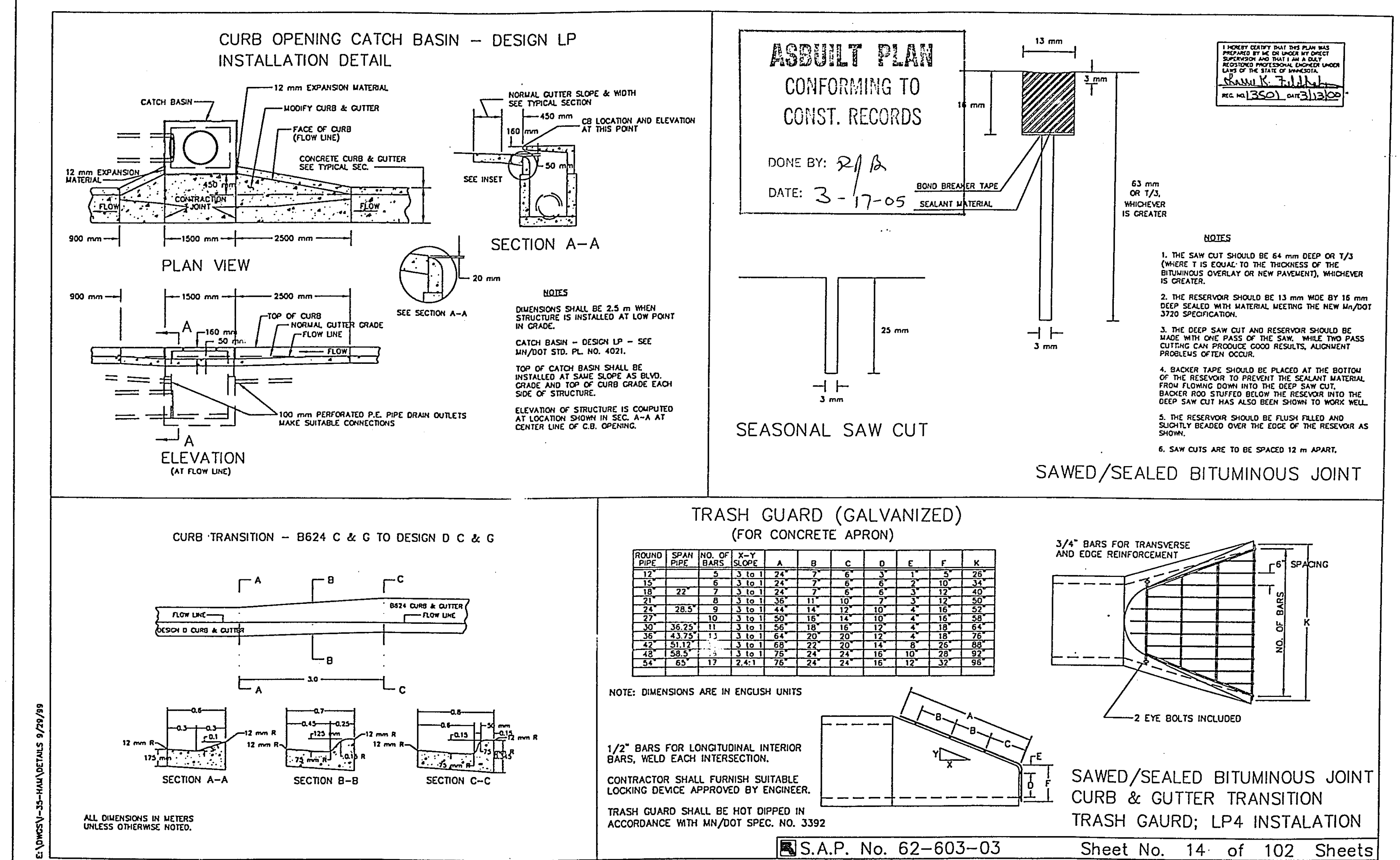
PROJECT TOTALS 171 169

REMOVE CM/PVC PIPE CULVERT

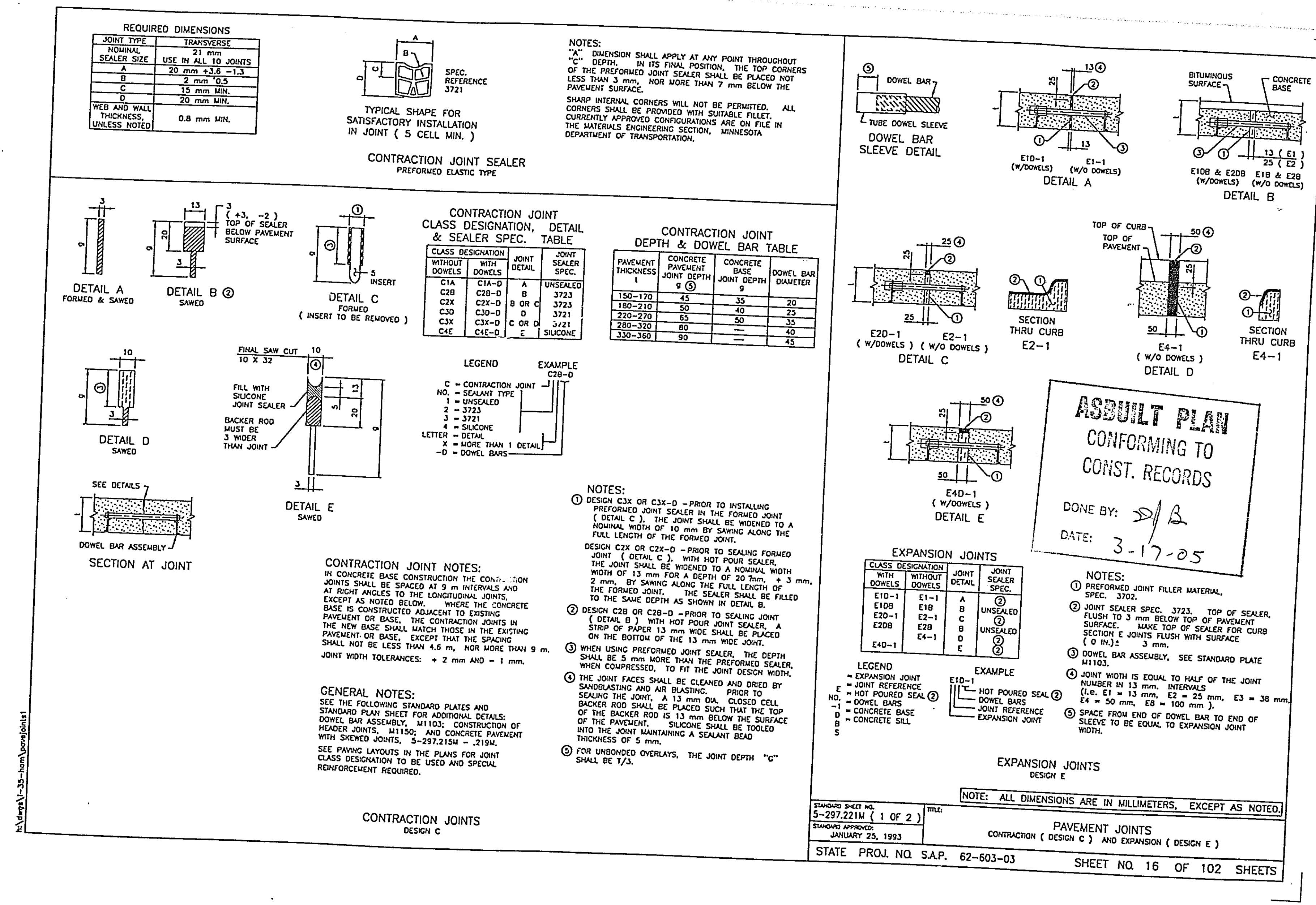
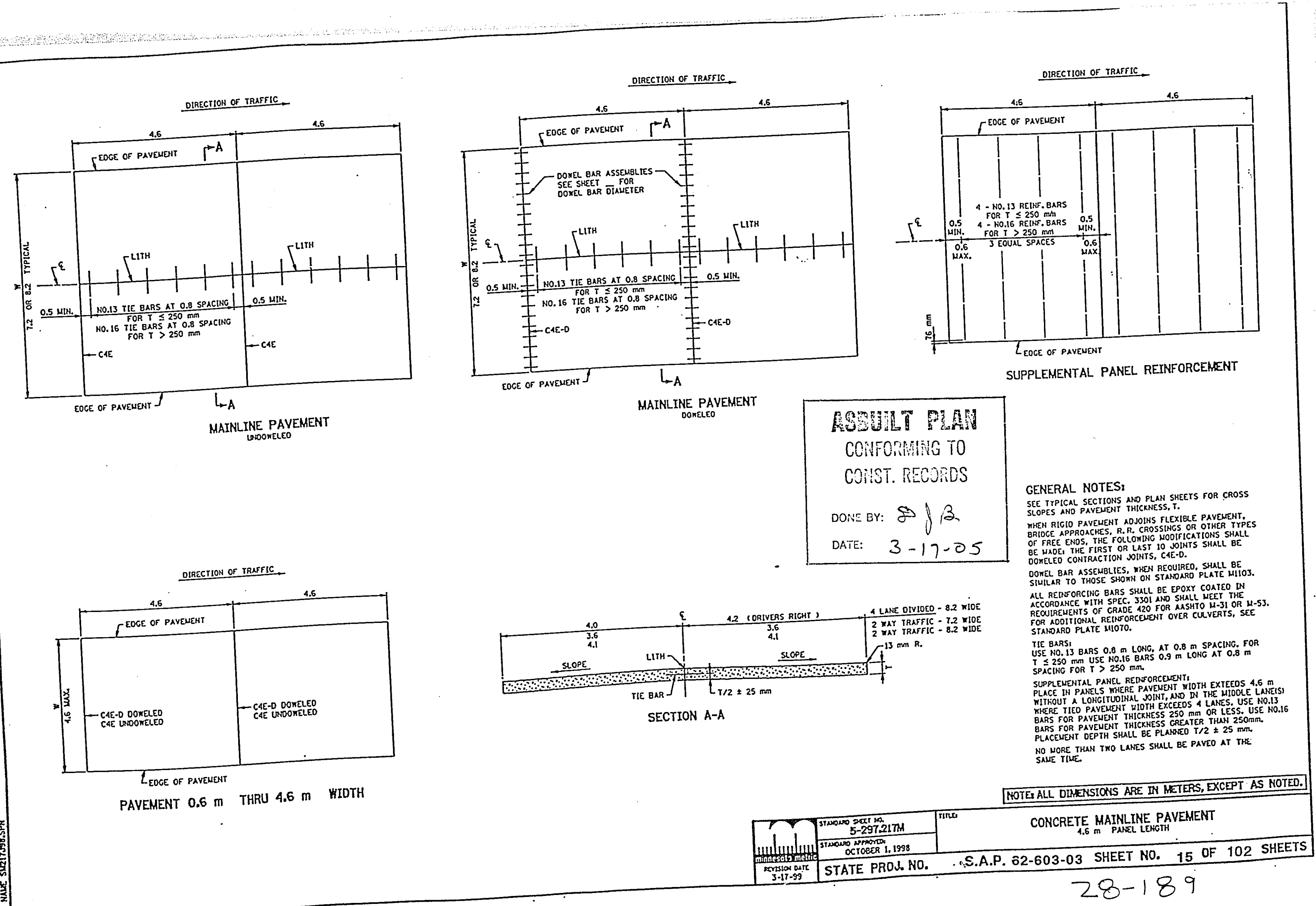
STATION	LOCATION RT./LT.	DESCRIPTION	CLEAR TIME EACH	GRUB TIME EACH
STA 2+252 RT 7.5	TO 2+353 RT 8.0 (ENT)	375 mm	12	12
STA 2+403 RT 8.5	TO 2+470 RT 8.0 (ENT)	375 mm	12	12
STA 2+711 RT 8.5	TO 2+752 RT 8.5 (ENT)	375 mm	12	12
LINE M CB 5 TO MCB 6	2+752 TO 2+800	375 mm	12	12
LINE M CB 5 TO CB 6	2+800 TO 2+850	375 mm	12	12
LINE M CB 5 TO NORTH	2+850 TO 2+900	375 mm	12	12
LINE M HWSA TO HWSB	2+900 TO 2+950	375 mm	12	12
LINE M HWSA TO CB 7	2+950 TO 3+000	375 mm	12	12
LINE M HWSA TO HWSB	3+000 TO 3+050	375 mm	12	12
LINE M HWSA TO CB 7	3+050 TO 3+100	375 mm	12	12
LINE M HWSA TO HWSB	3+100 TO 3+150	375 mm	12	12
LINE M HWSA TO CB 7	3+150 TO 3+200	375 mm	12	12
LINE M HWSA TO HWSB	3+200 TO 3+250	375 mm	12	12
LINE M HWSA TO CB 7	3+250 TO 3+300	375 mm	12	12
LINE M HWSA TO HWSB	3+300 TO 3+350	375 mm	12	12
LINE M HWSA TO CB 7	3+350 TO 3+400	375 mm	12	12
LINE M HWSA TO HWSB	3+400 TO 3+450	375 mm	12	12
LINE M HWSA TO CB 7	3+450 TO 3+500	375 mm	12	12
LINE M HWSA TO HWSB	3+500 TO 3+550	375 mm	12	12
LINE M HWSA TO CB 7	3+550 TO 3+600	375 mm	12	12
LINE M HWSA TO HWSB	3+600 TO 3+650	375 mm	12	12
LINE M HWSA TO CB 7	3+650 TO 3+700	375 mm	12	12
LINE M HWSA TO HWSB	3+700 TO 3+750	375 mm	12	12
LINE M HWSA TO CB 7	3+750 TO 3+800	375 mm	1	



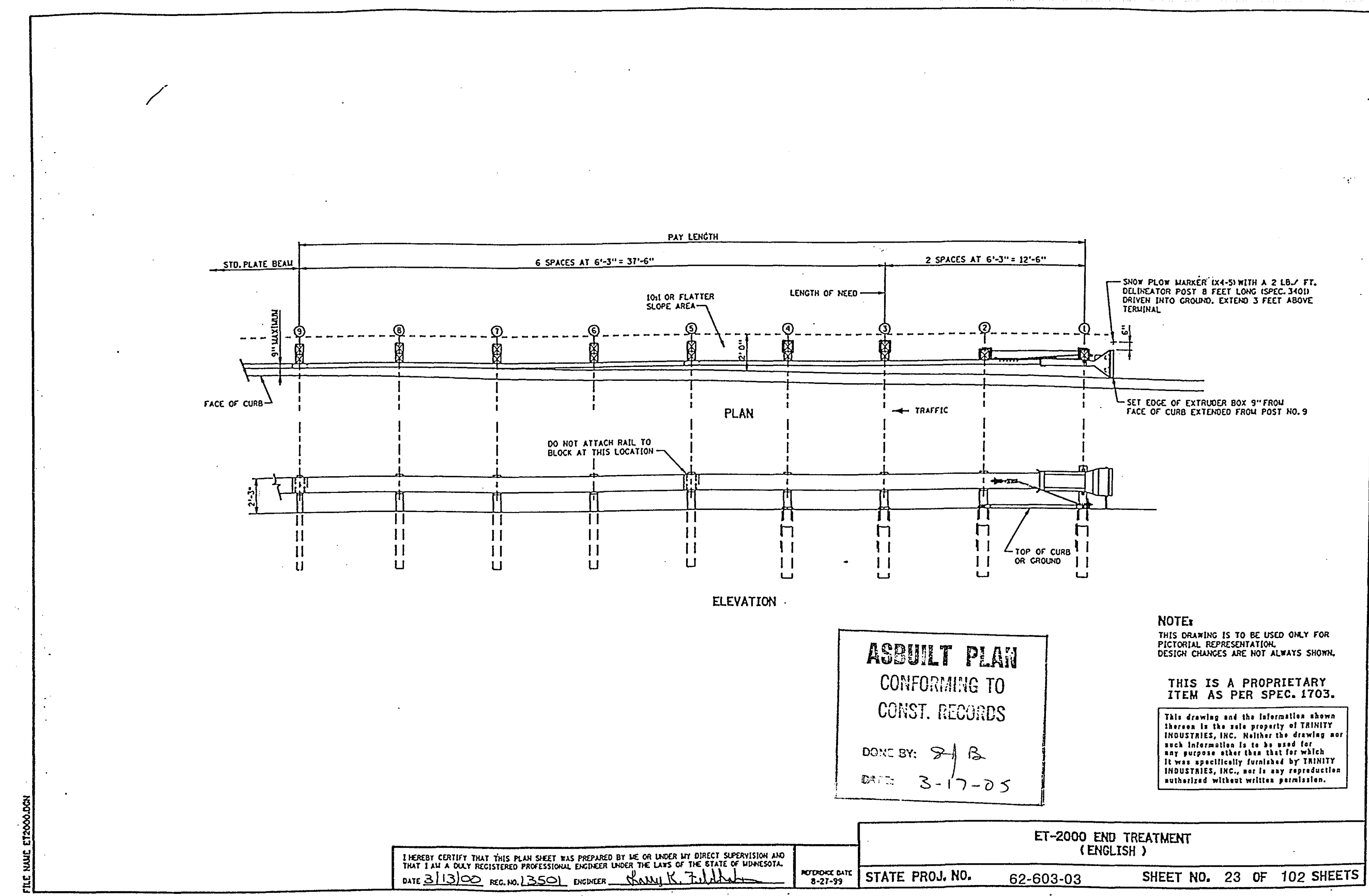
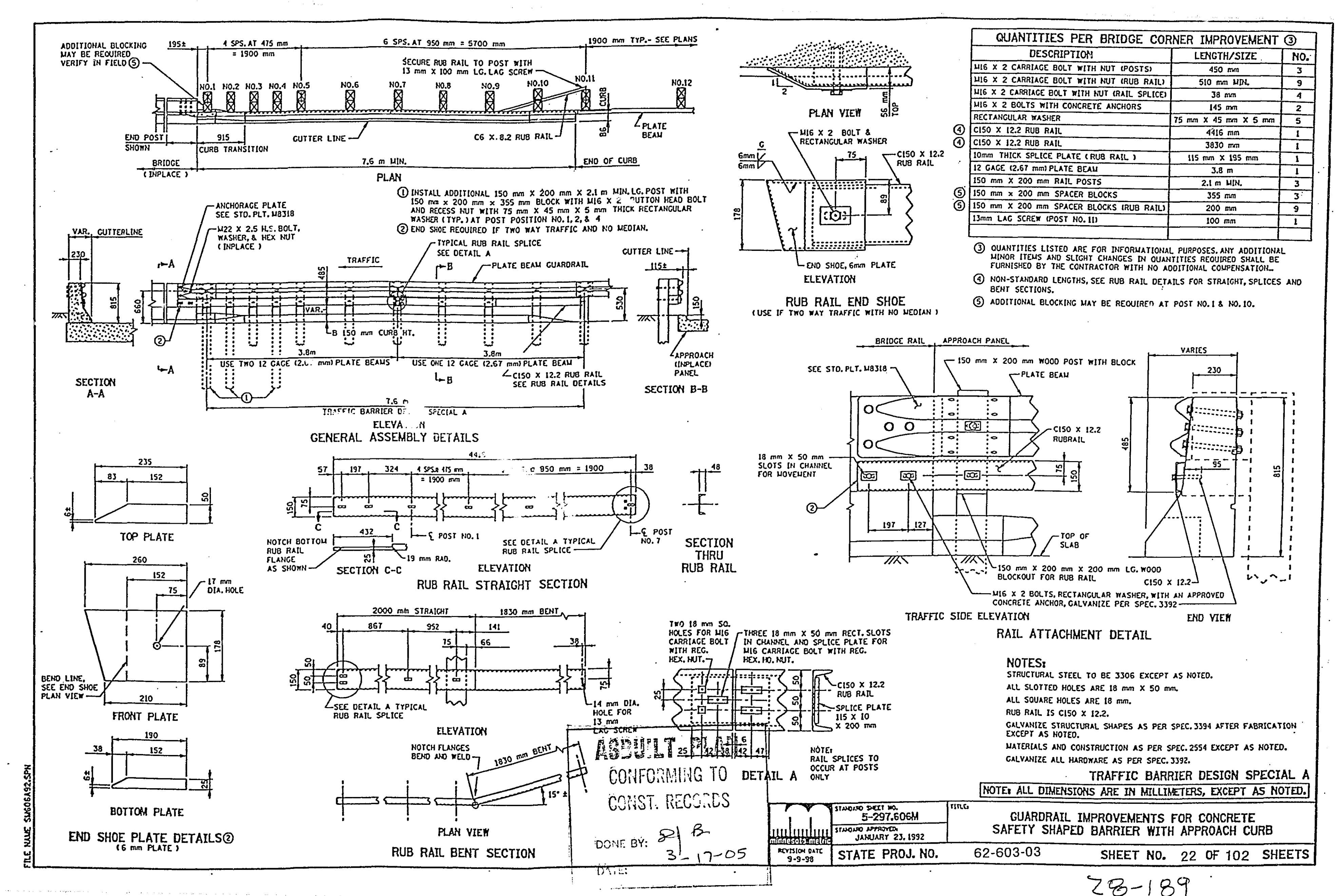
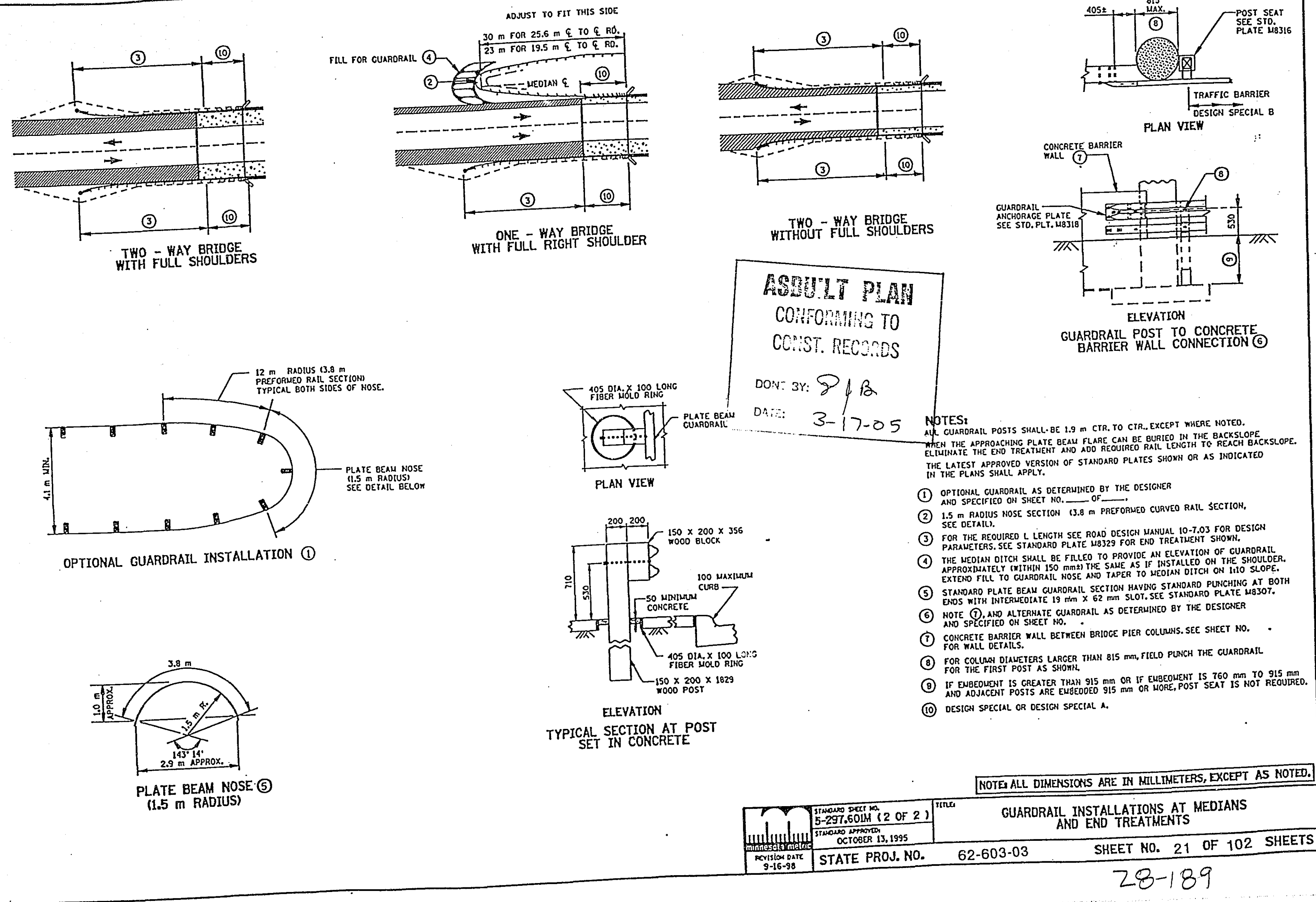
28-189



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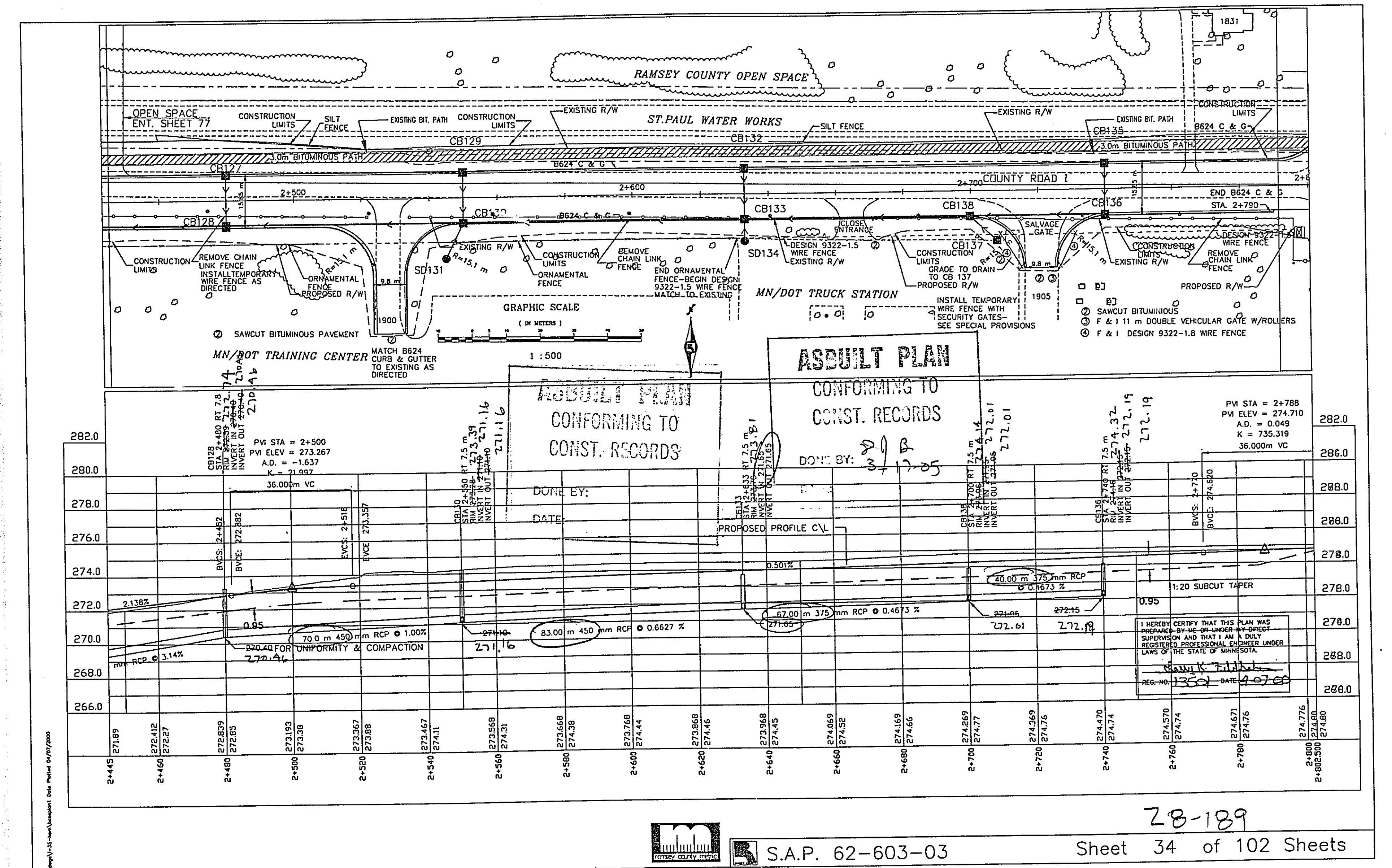
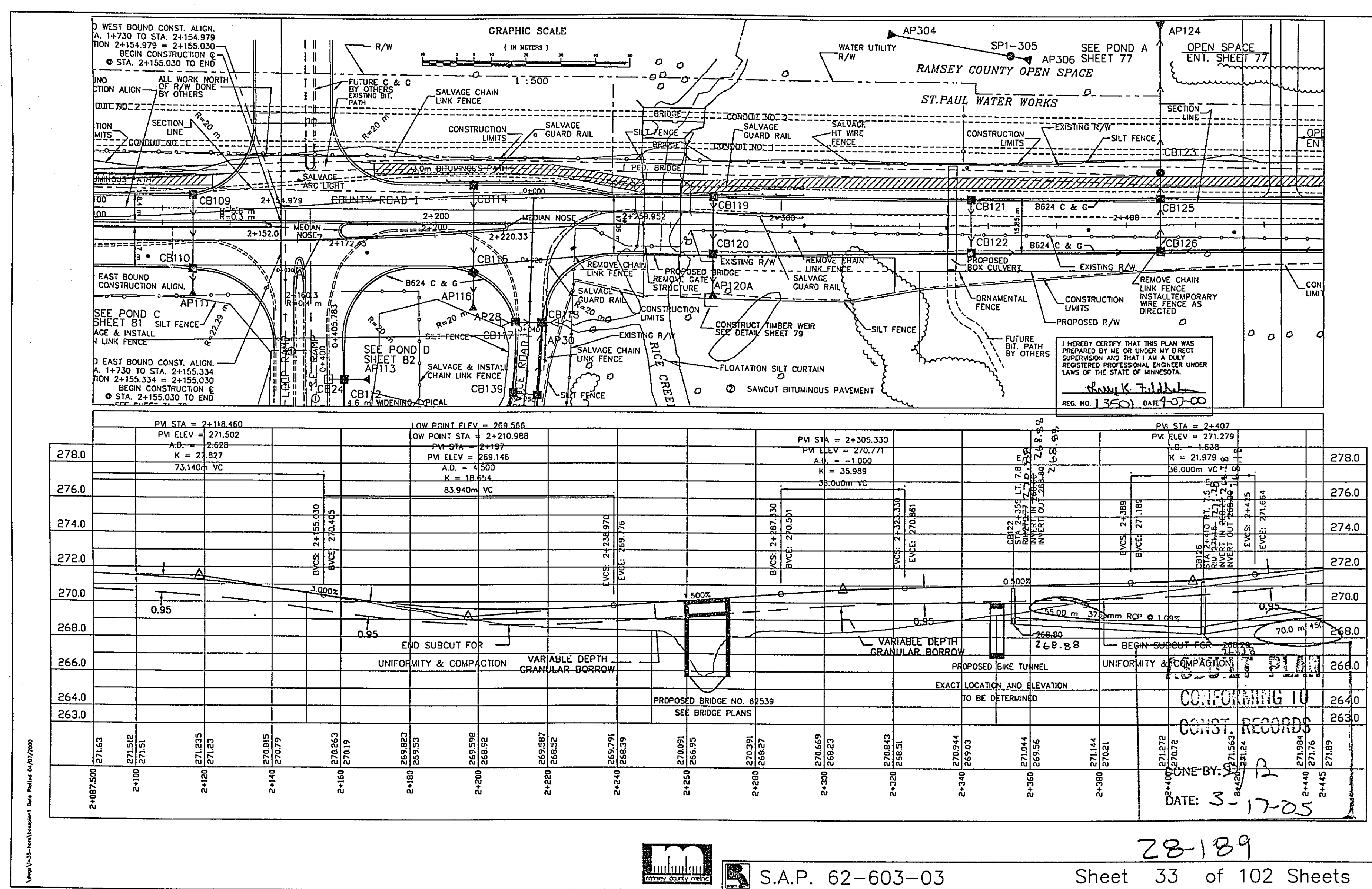


28-189

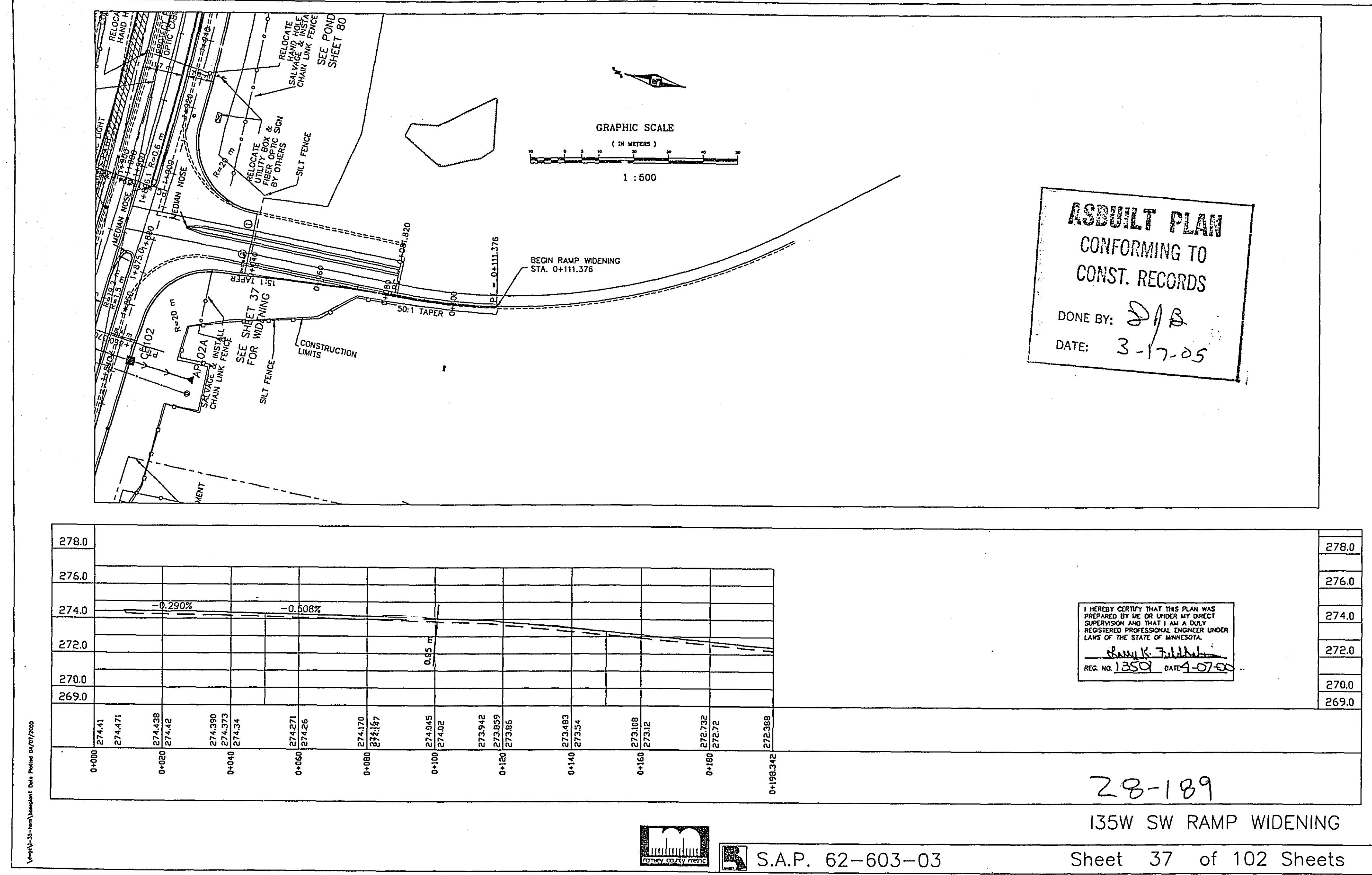


Pages 24 thru 28

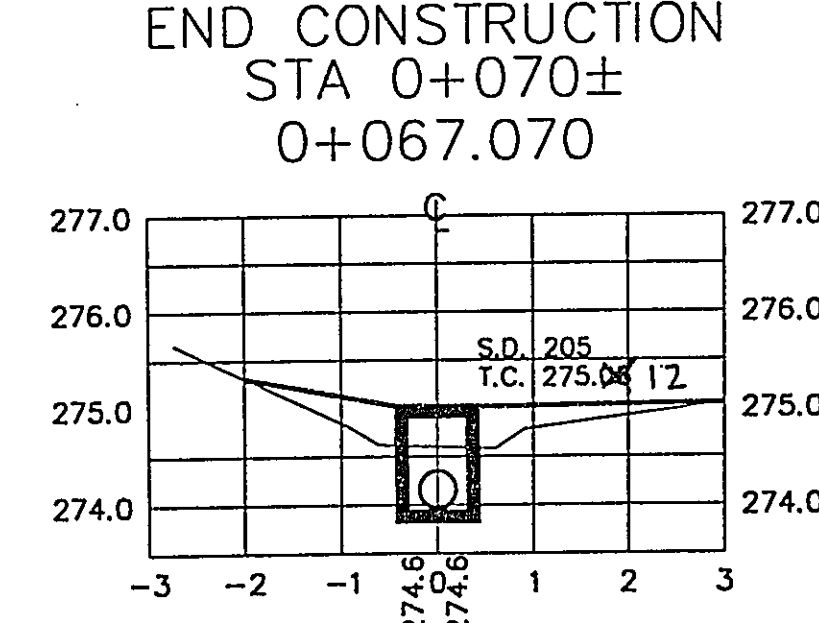
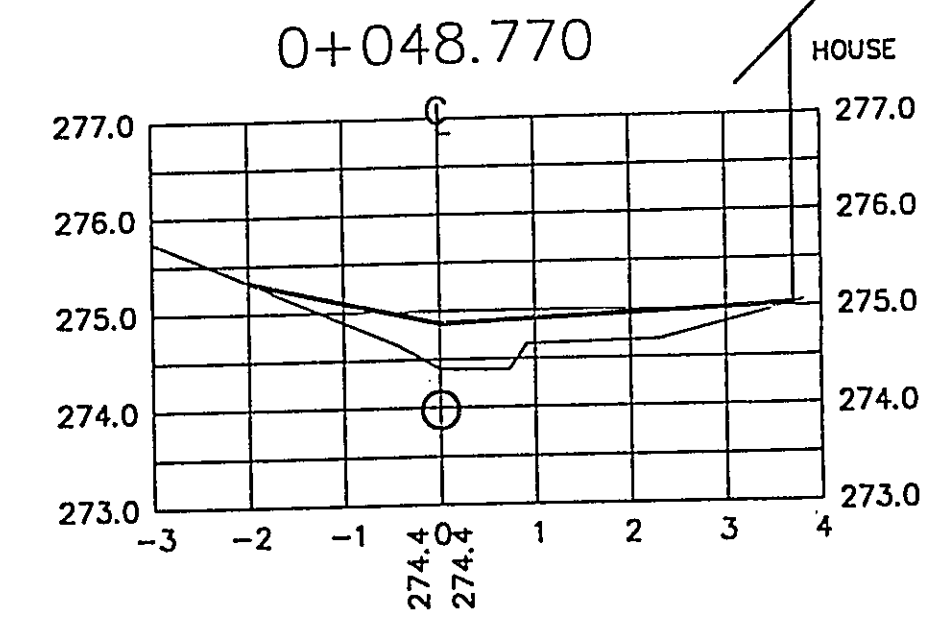
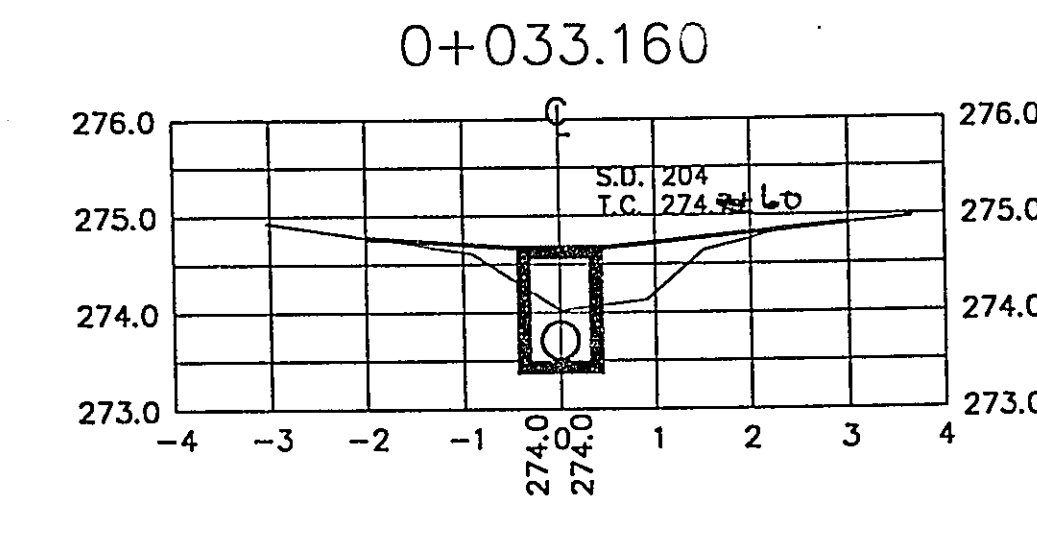
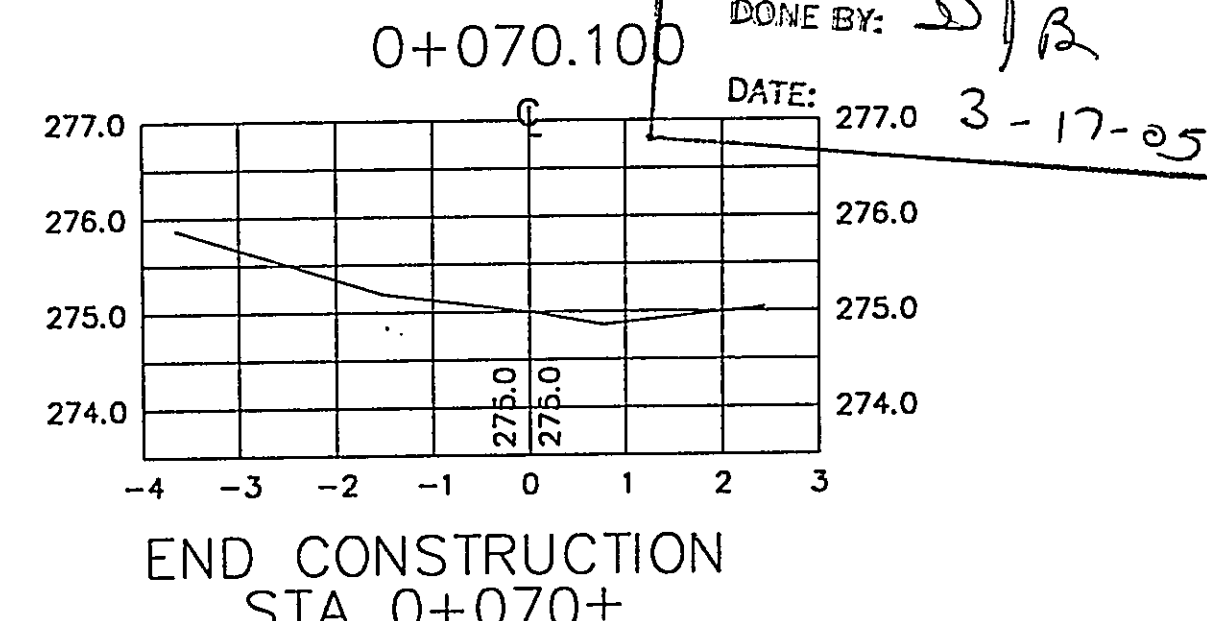
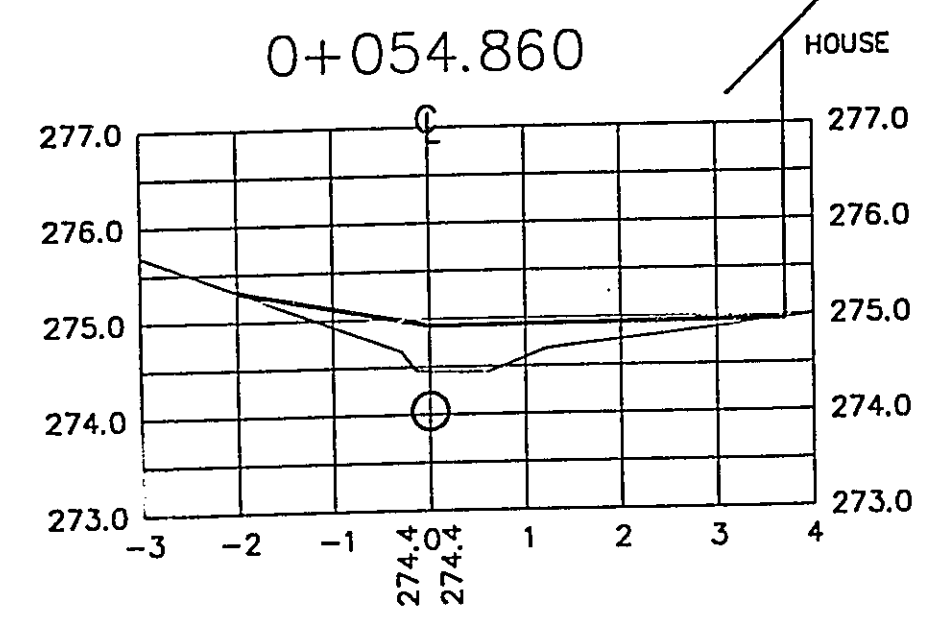
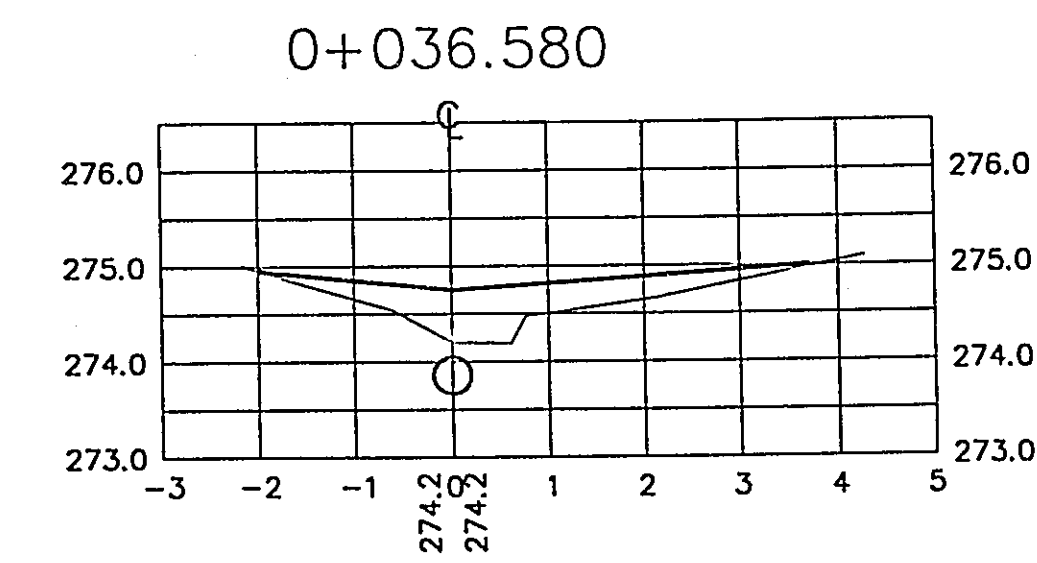
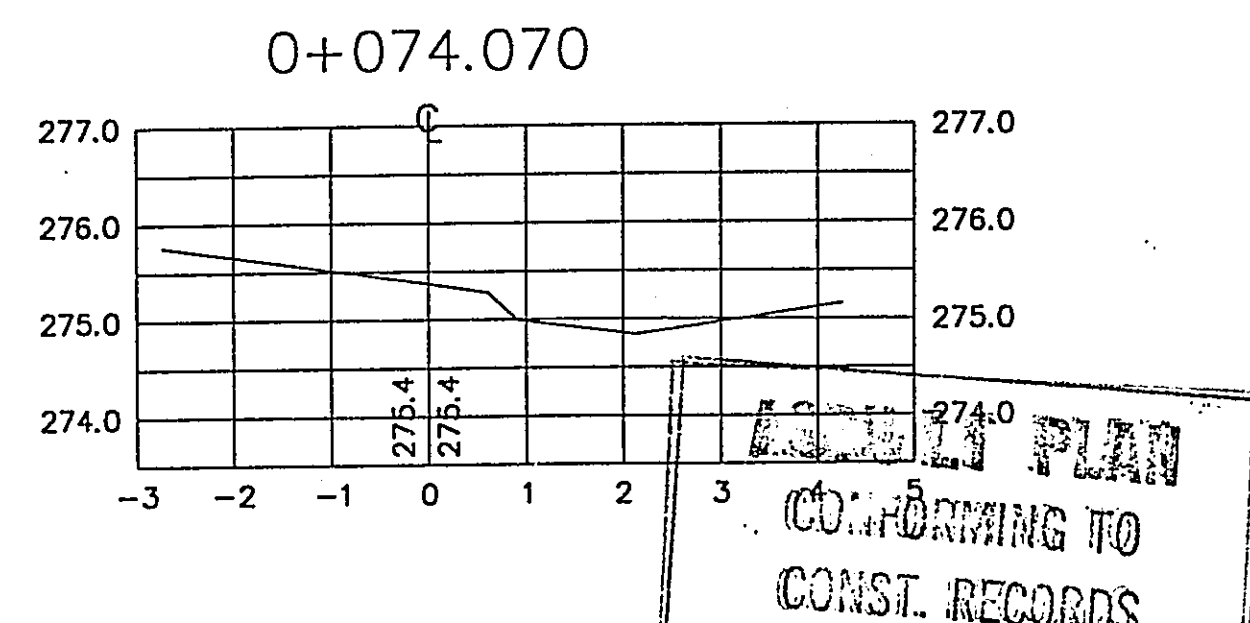
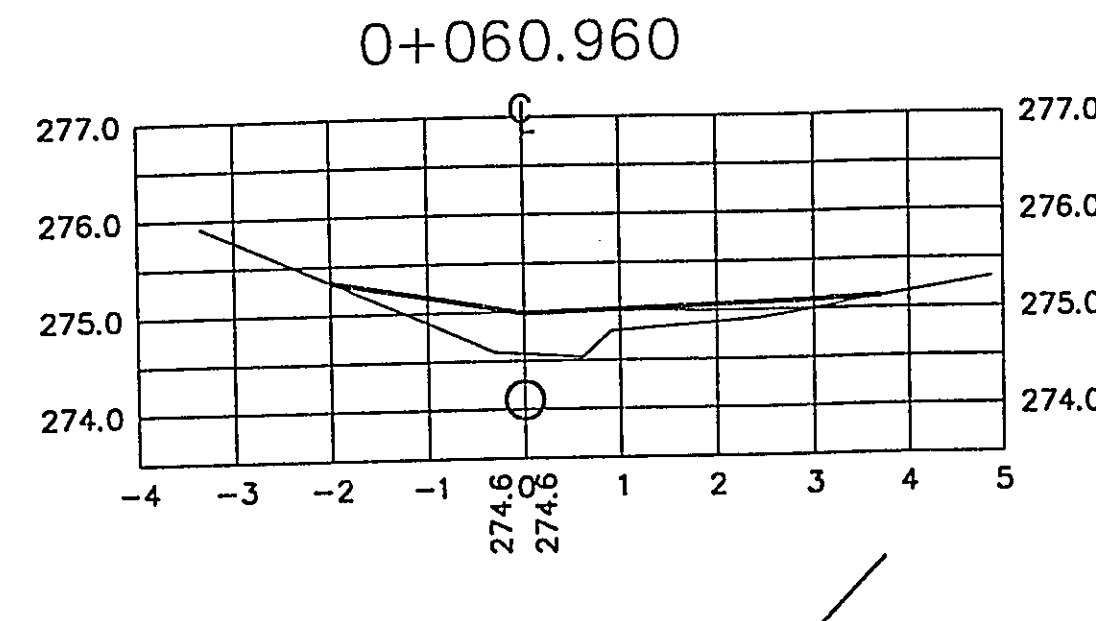
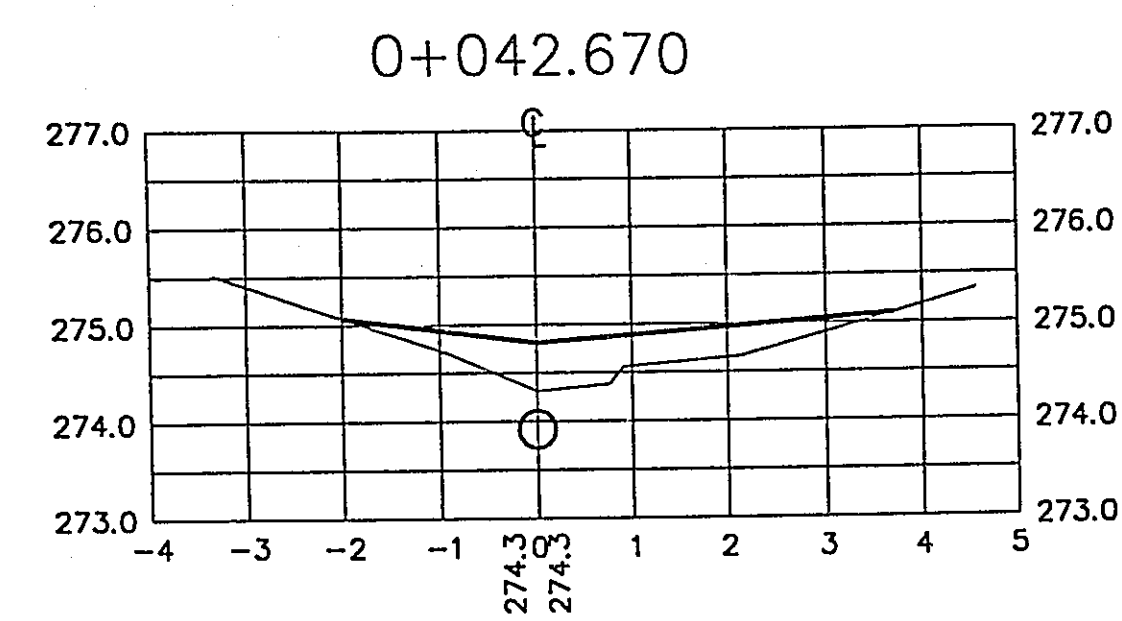
Were missing at time
of filming







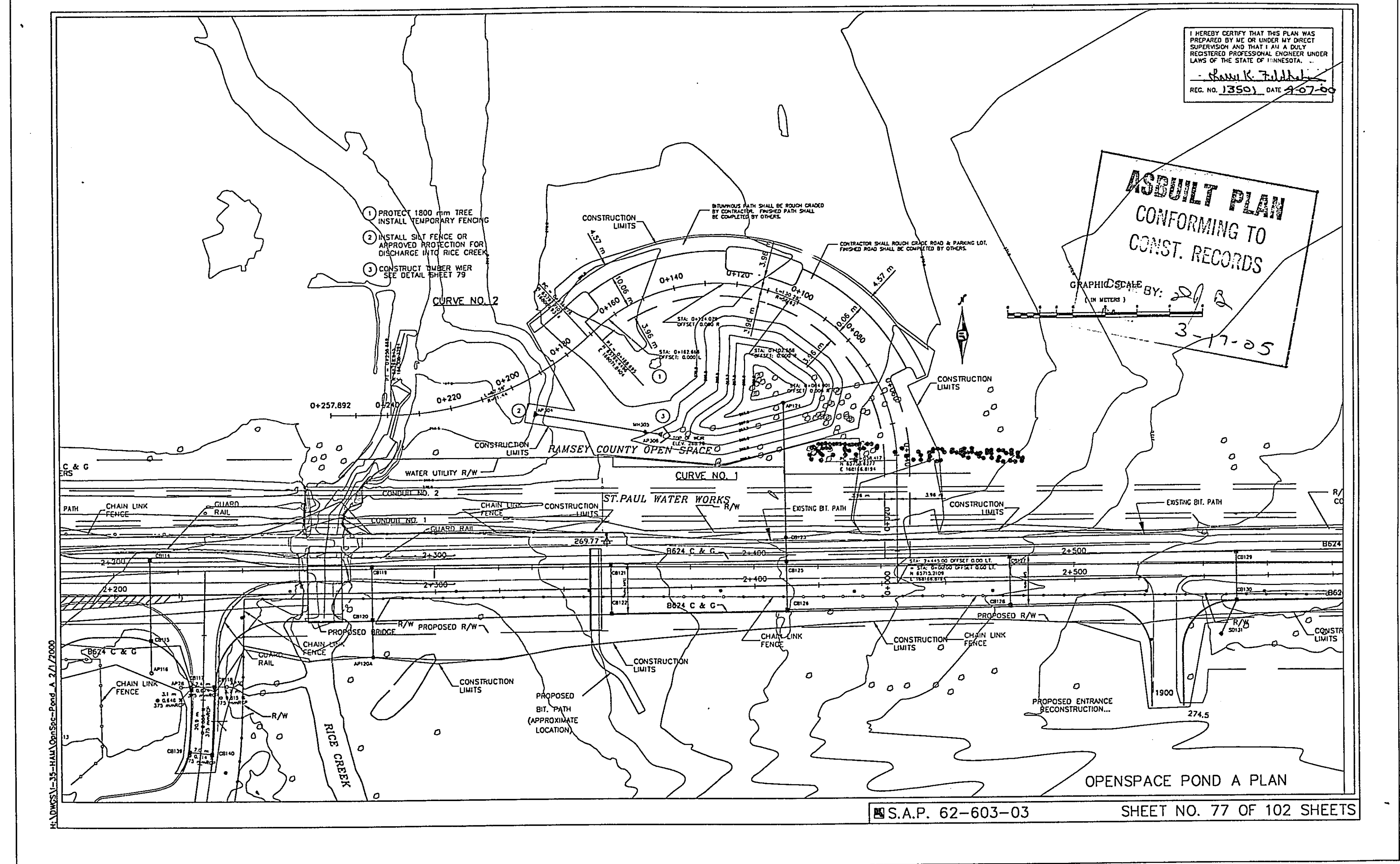
IN: D:\WORK\35-HAM\OpenSpace-Pond A, 9/24/99 Date Plotted: 12/7/99



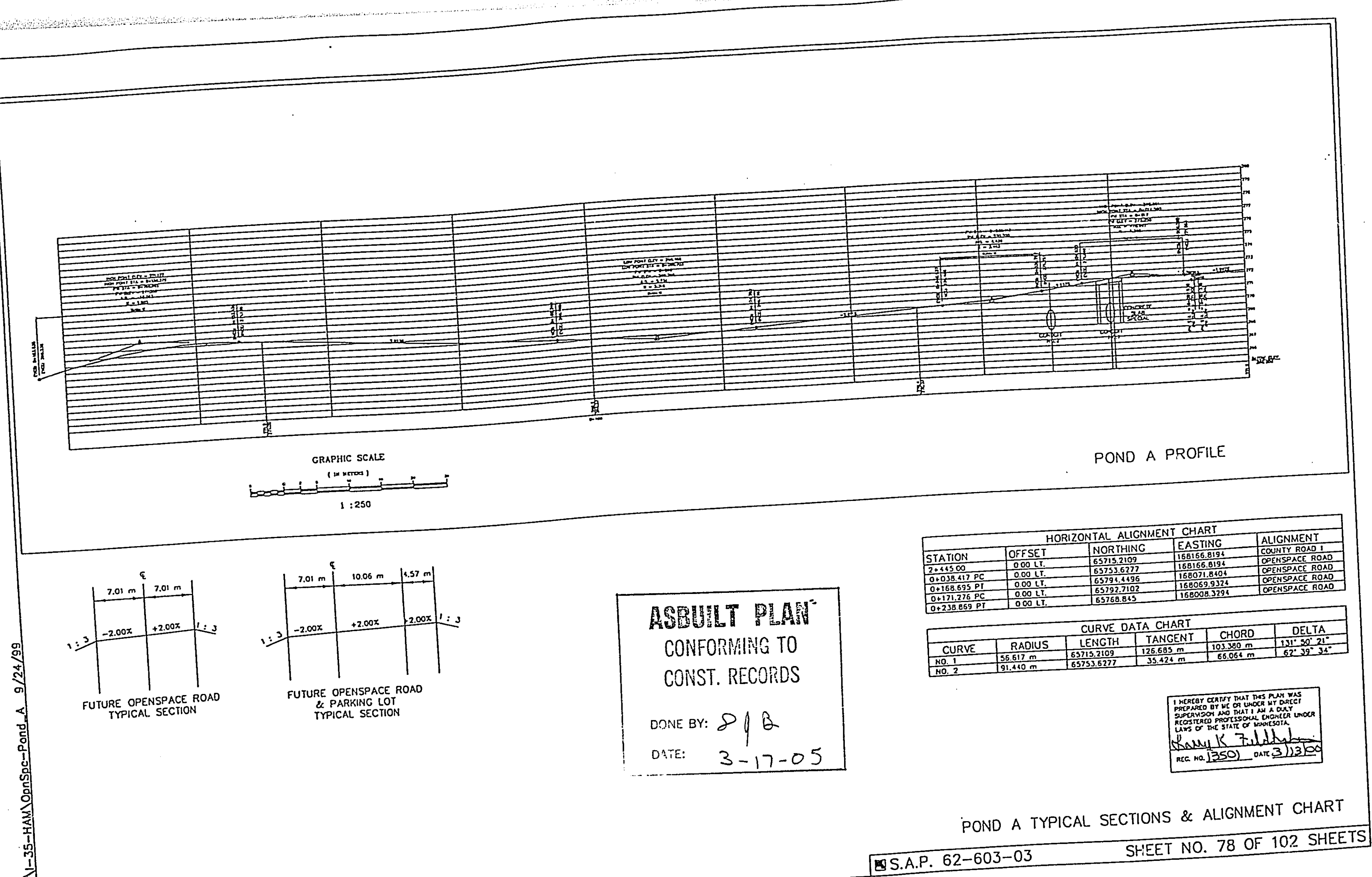
LINE M STORM SEWER X-SECTIONS

S.A.P. 62-603-03 SHEET NO. 76 OF 102 SHEETS

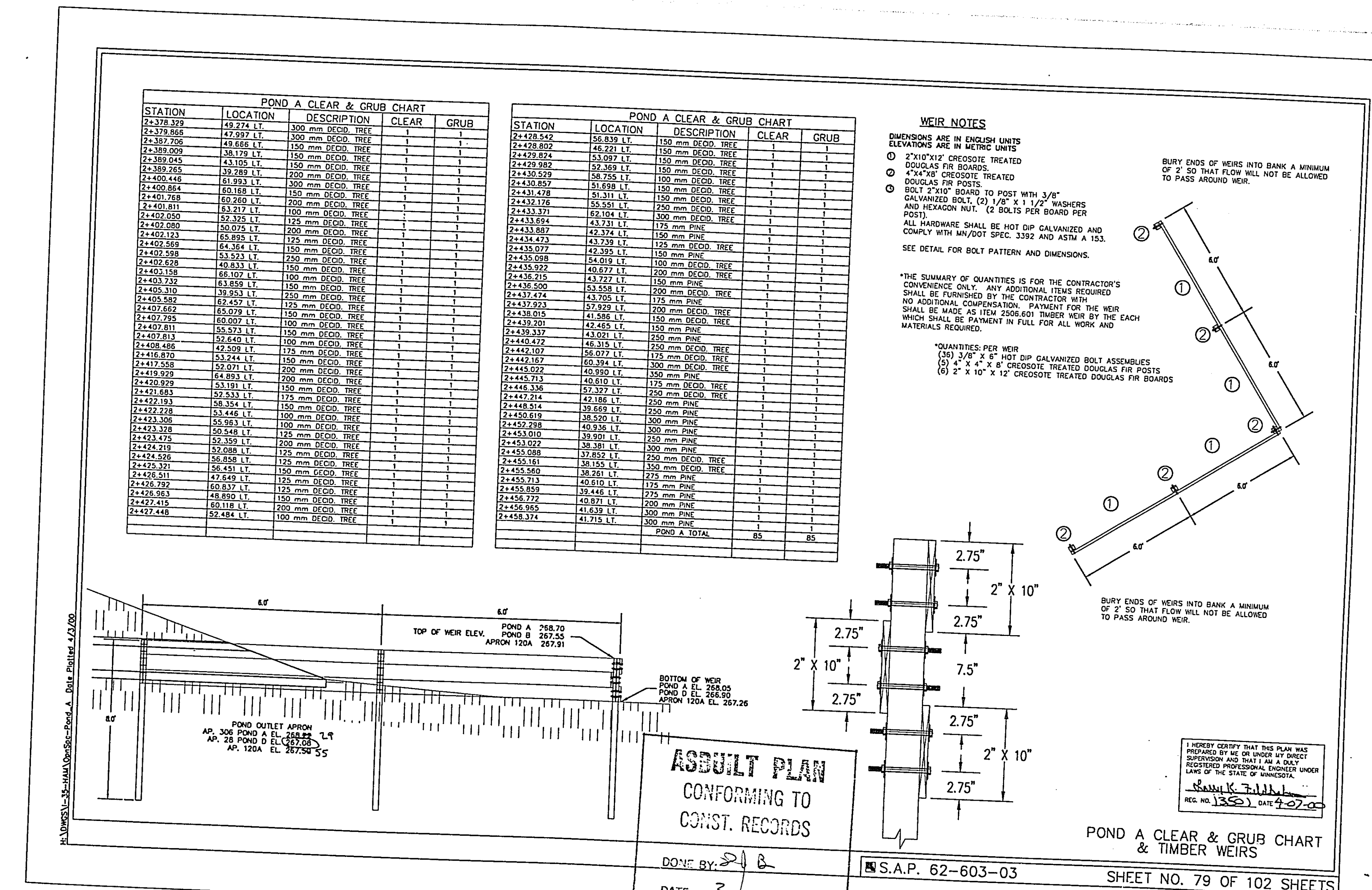
28-189



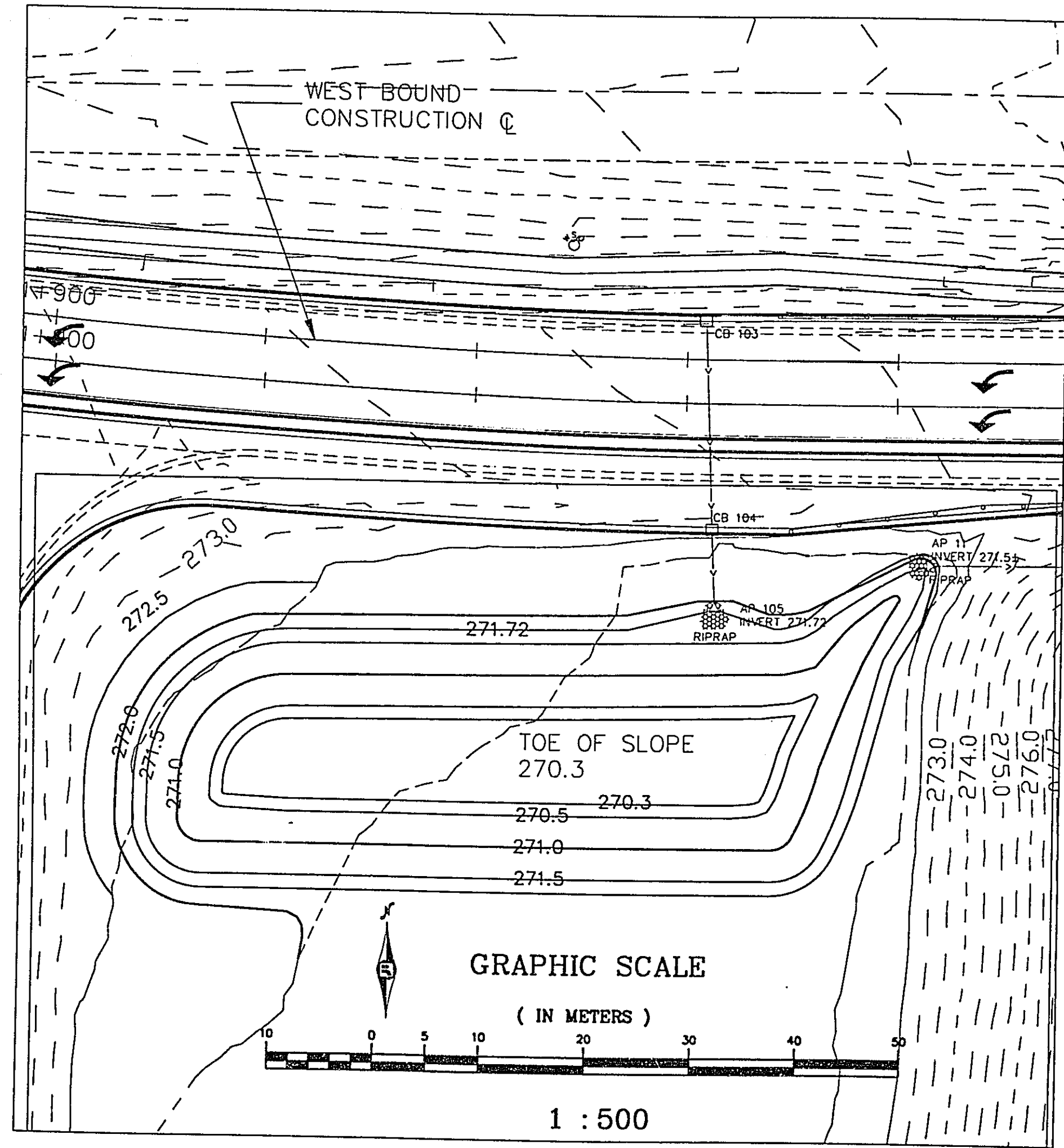
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NOTES

Excavation for pond shall be paid as item
2105.515 Unclassified Excavation by the m3.
Estimated volume of excavation = 2496 m3 (EV)
Estimated permanent pool = 1133 m3

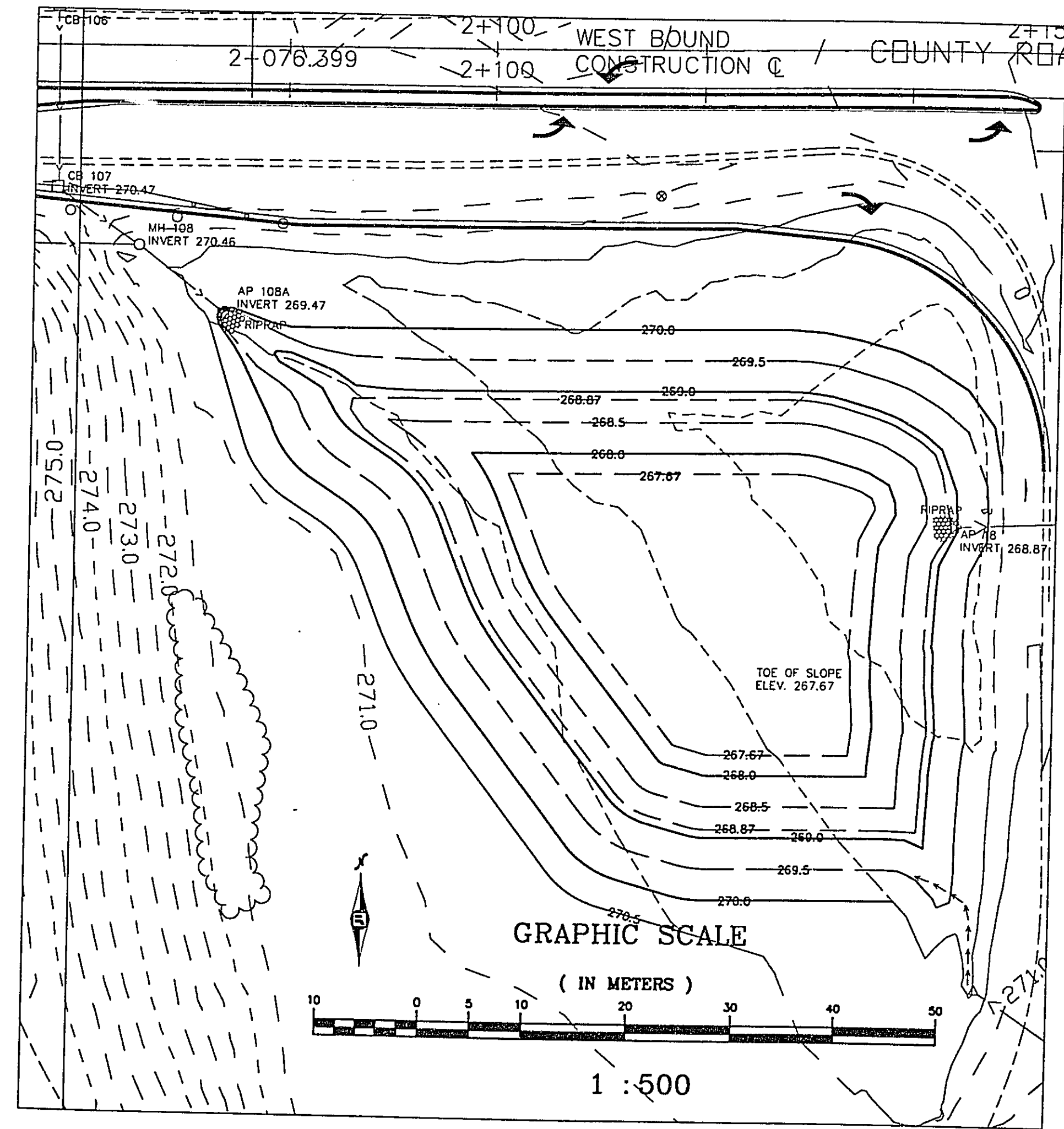
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *SPB*
DATE: 3-17-05

I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER
LAWS OF THE STATE OF MINNESOTA.
Larry K. Feldman
REG. NO. 13501 DATE 4-07-00

STORM WATER POND B
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S.A.P. 62-603-03



NOTES

Excavation for pond shall be paid as item
2105.515 Unclassified Excavation by the m3.
Estimated volume of excavation = 4020 m3 (EV)
Estimated permanent pool = 1458 m3

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *SPB*
DATE: 3-17-05

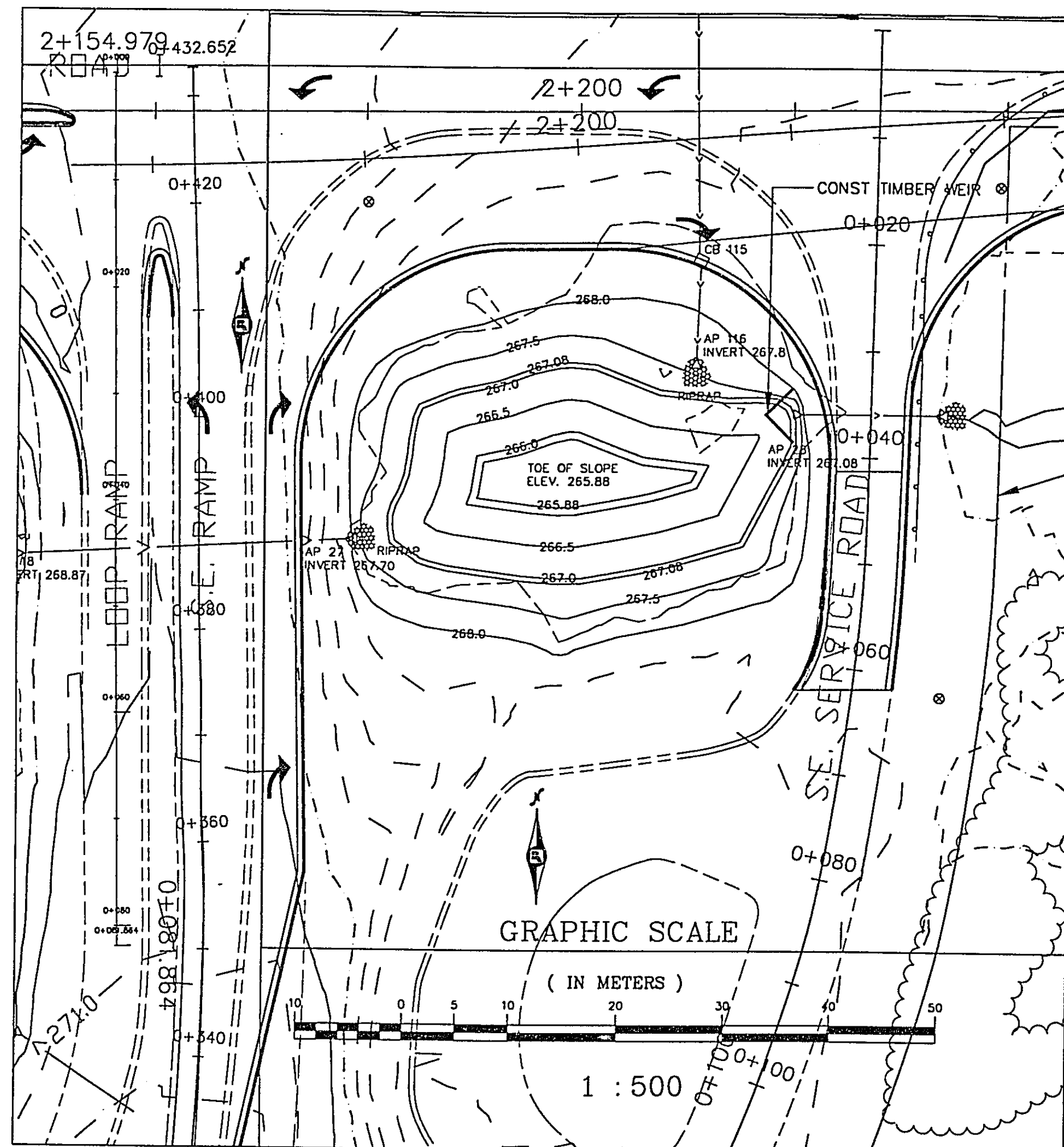
I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER
LAWS OF THE STATE OF MINNESOTA.
Larry K. Feldman
REG. NO. 13501 DATE 4-07-00

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STORM WATER POND C



S.A.P. 62-603-03

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NOTES

Excavation for pond shall be paid as item
2105.515 Unclassified Excavation by the m3.
Estimated volume of excavation = 949 m3 (EV)
Estimated permanent pool = 416 m3
Construct timber weir @ ap. 28 see detail sheet 79.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *SPB*
DATE: 3-17-05

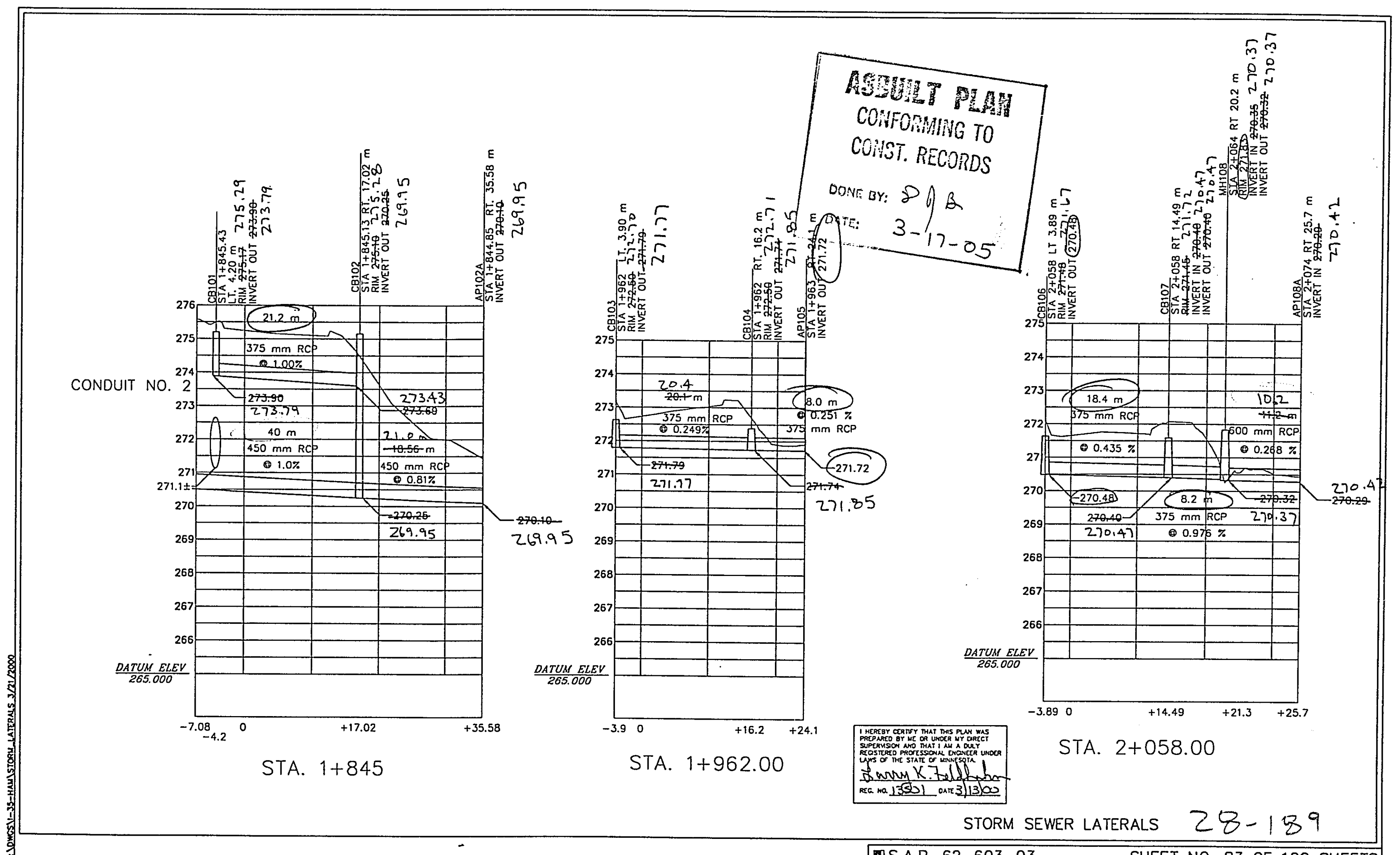
I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER
LAWS OF THE STATE OF MINNESOTA.
Larry K. Feldman
REG. NO. 13501 DATE 4-07-00

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STORM WATER POND D



S.A.P. 62-603-03

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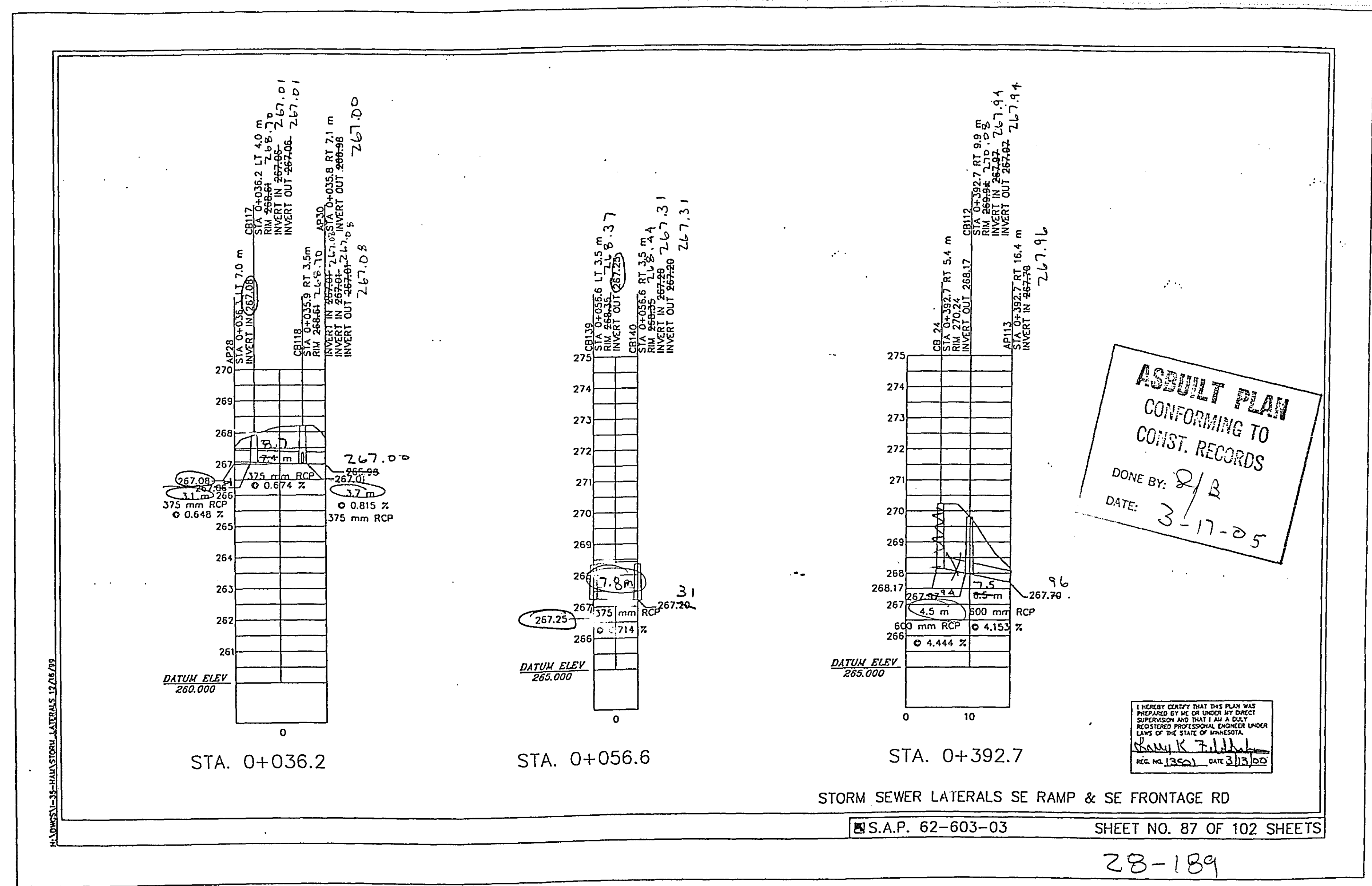
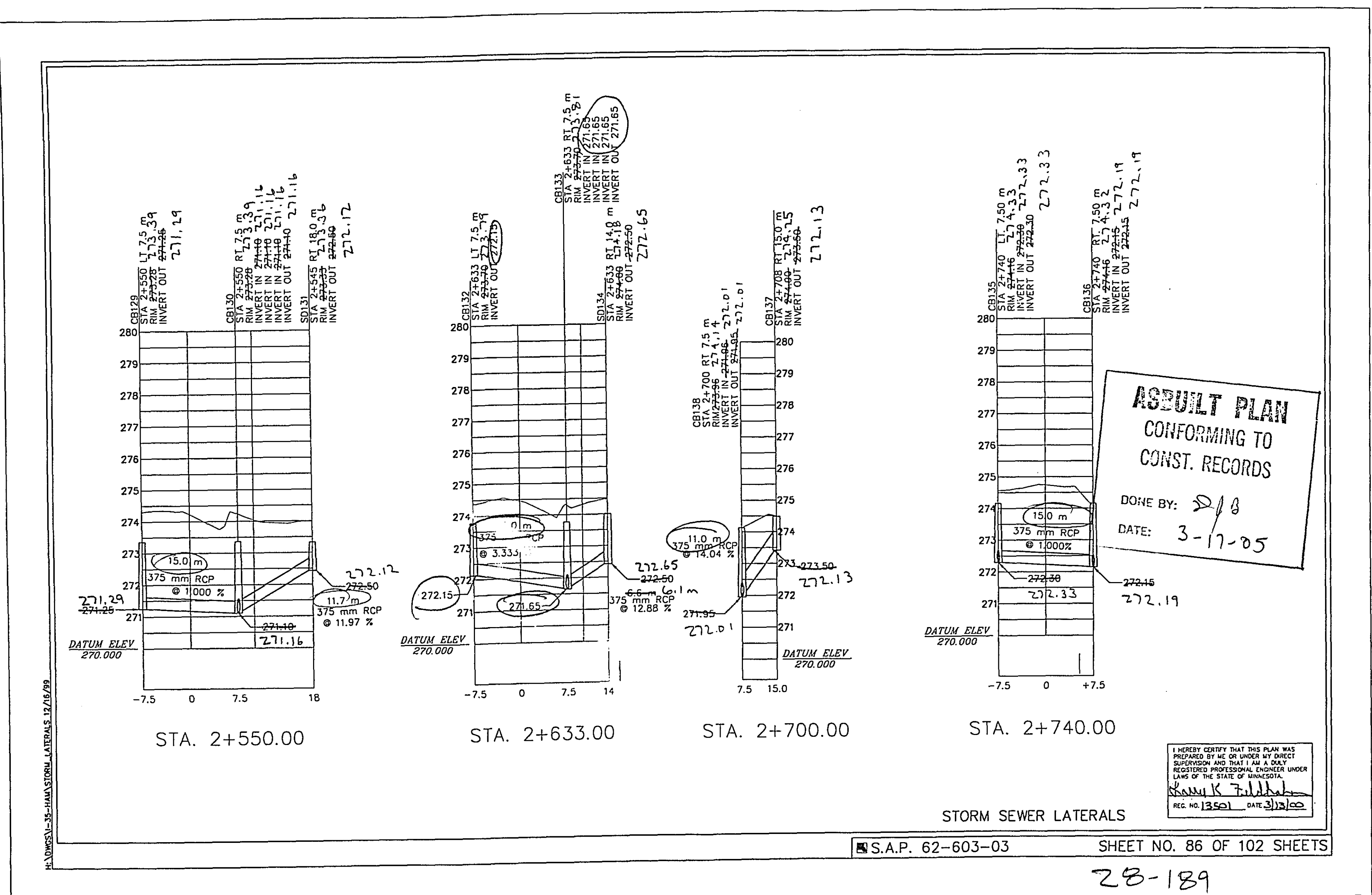
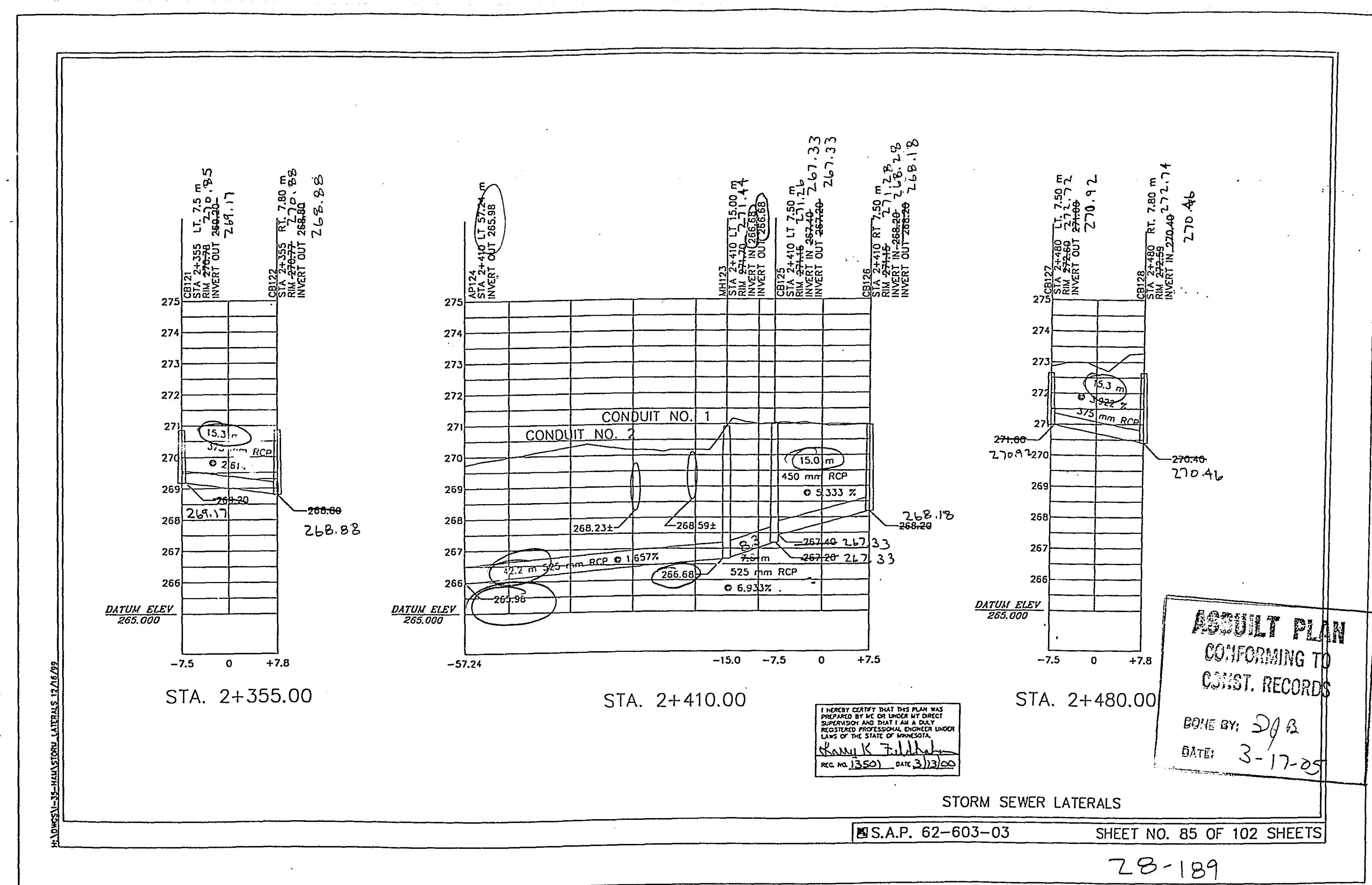
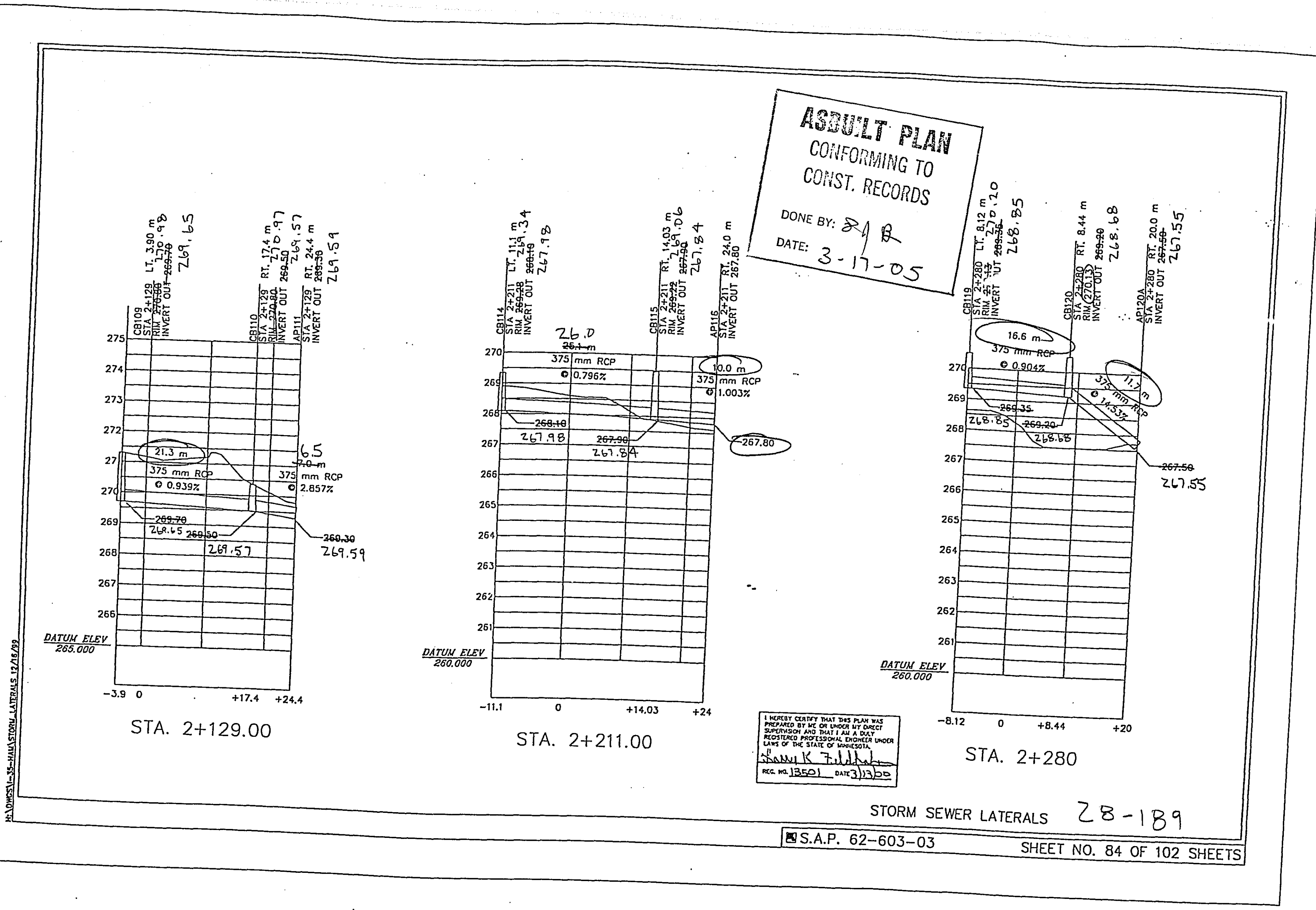
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DONE BY: *SPB*
DATE: 3-17-05

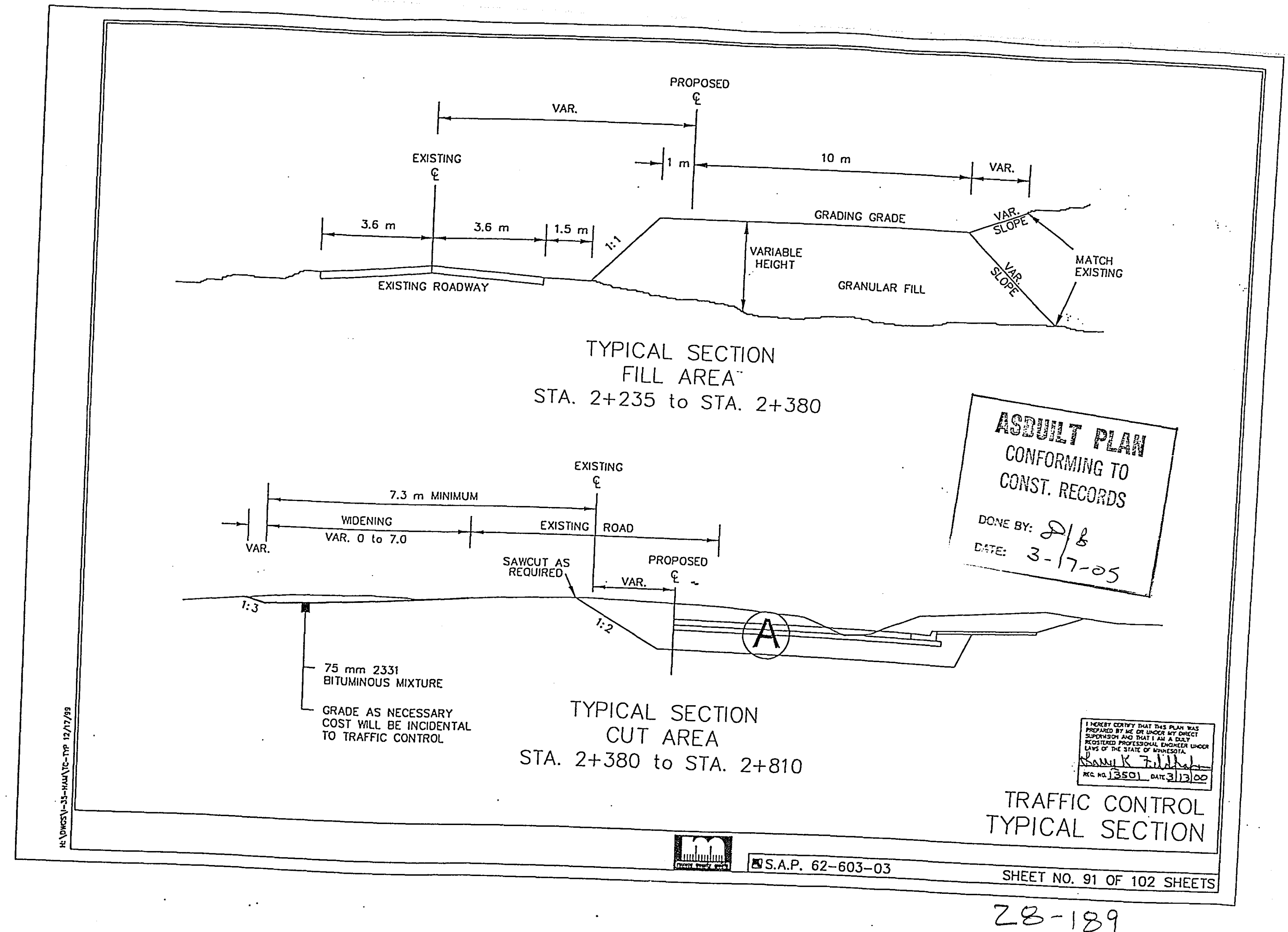
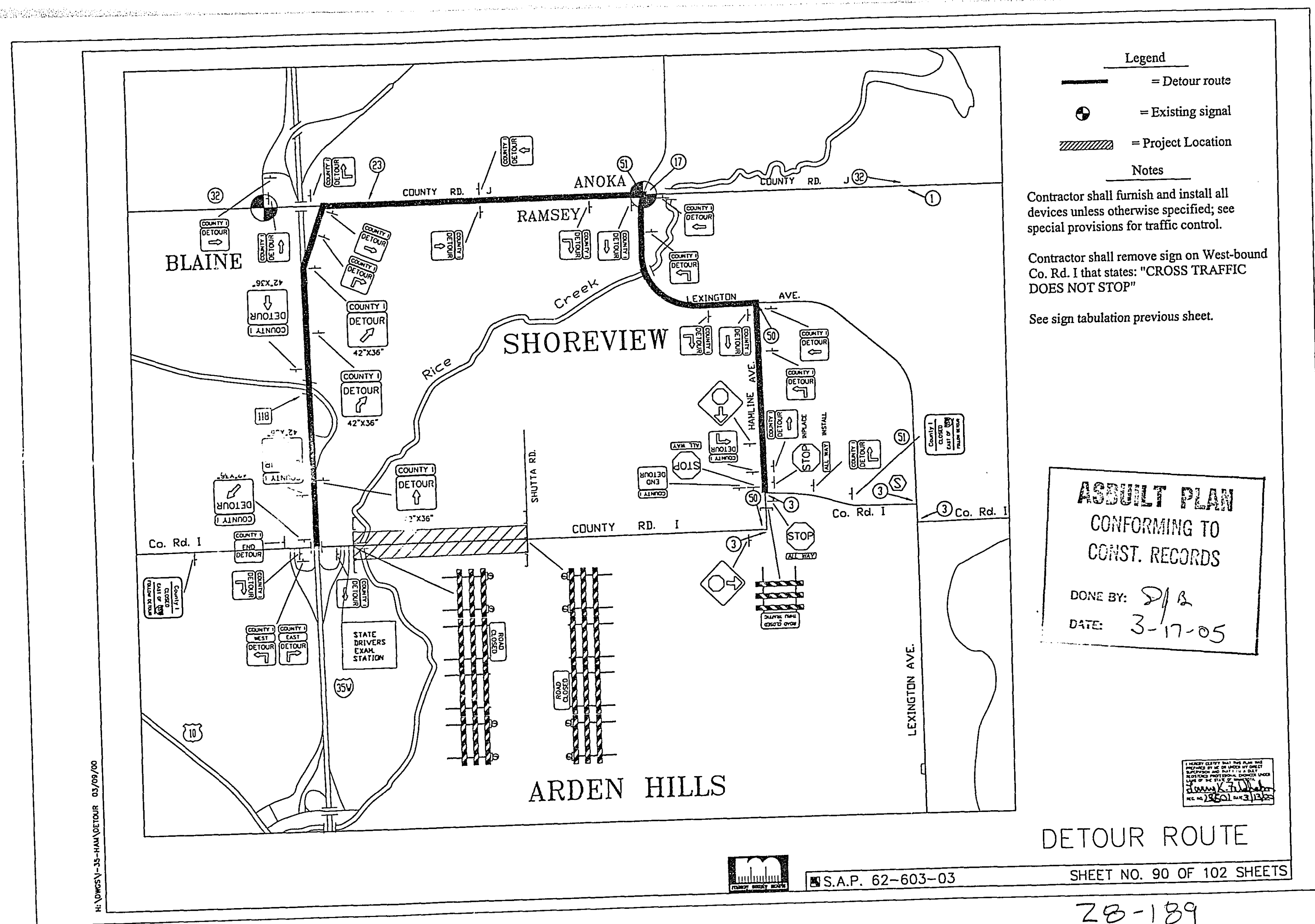
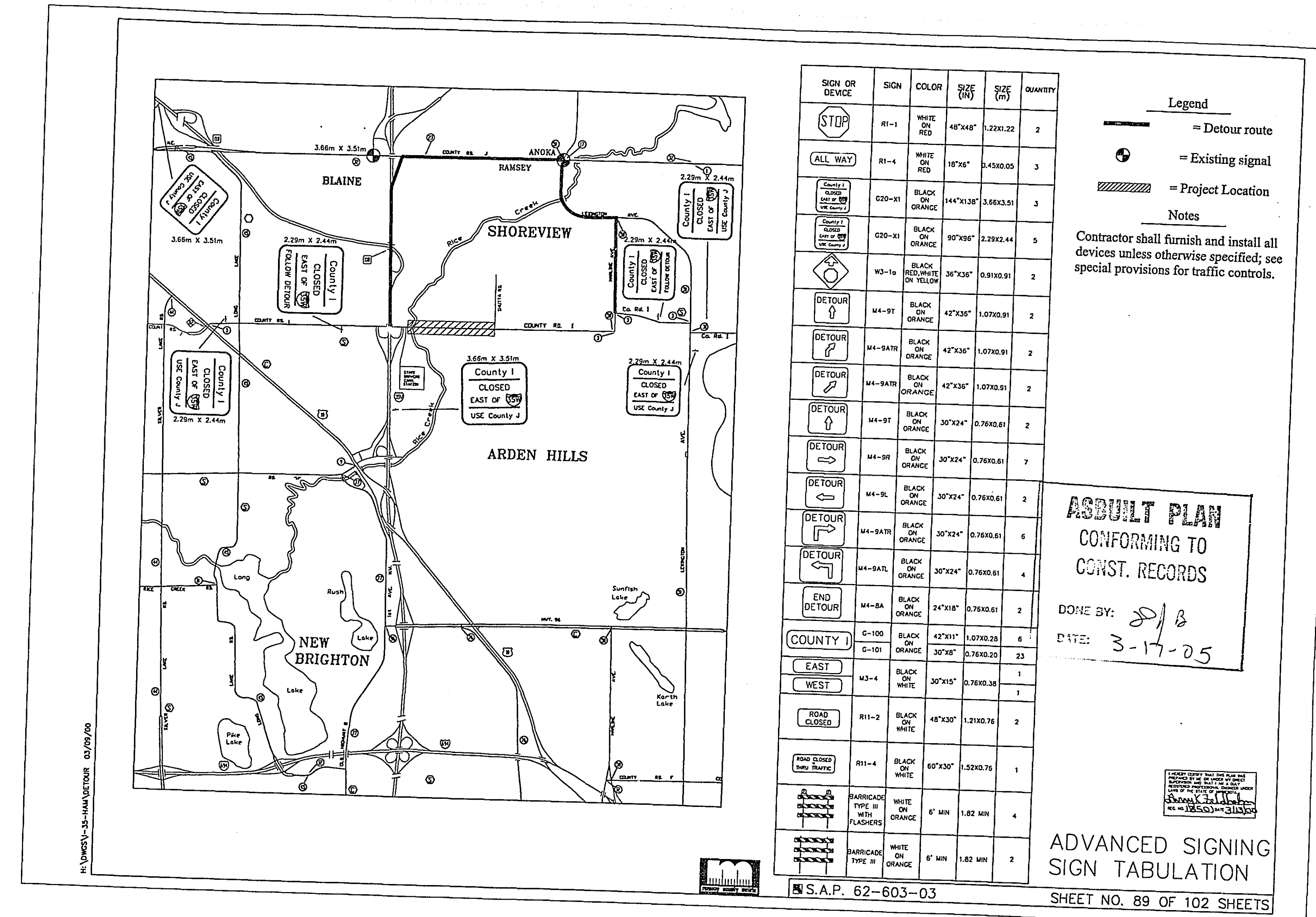
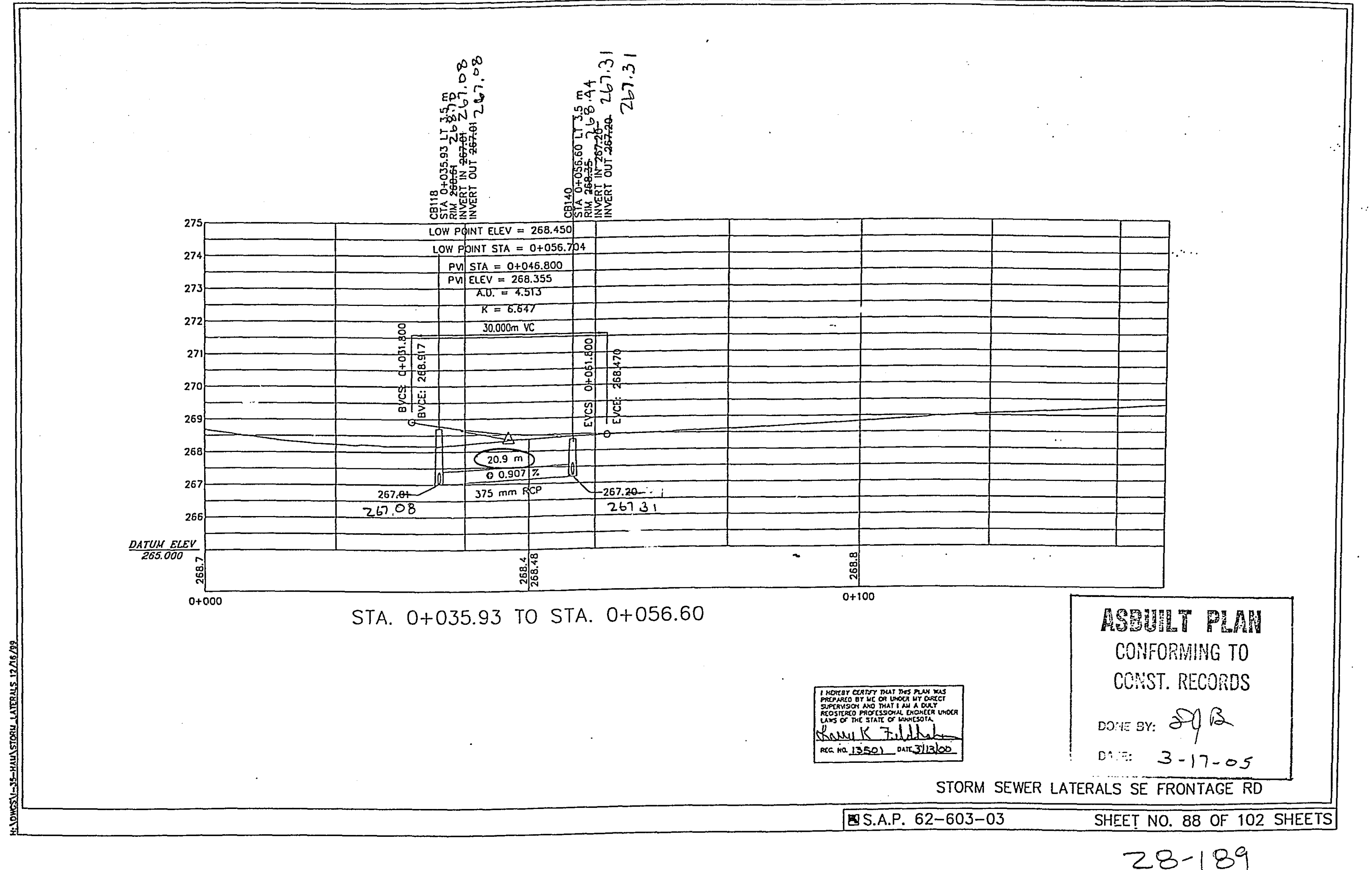
I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER
LAWS OF THE STATE OF MINNESOTA.
Larry K. Feldman
REG. NO. 13501 DATE 4-07-00

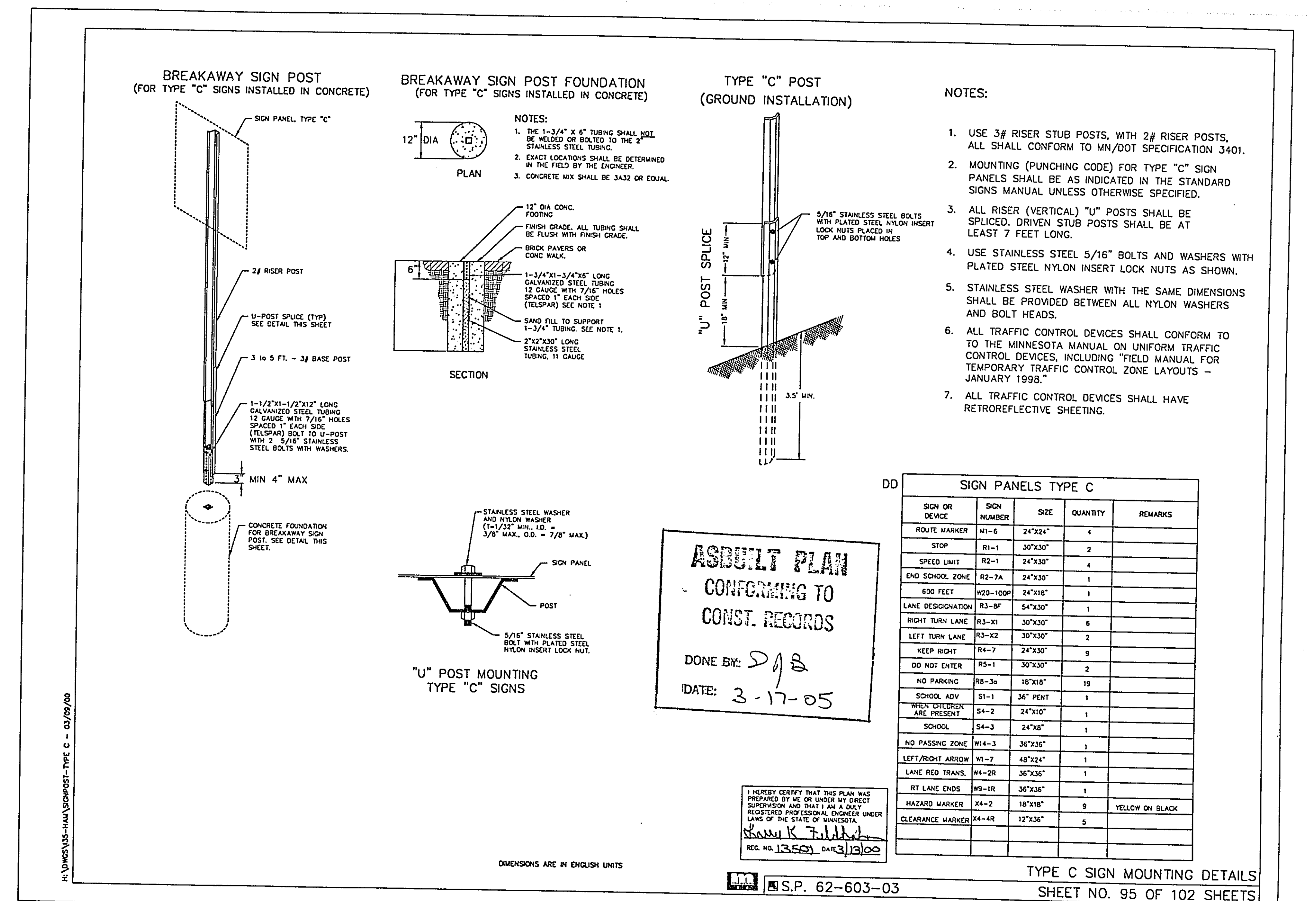
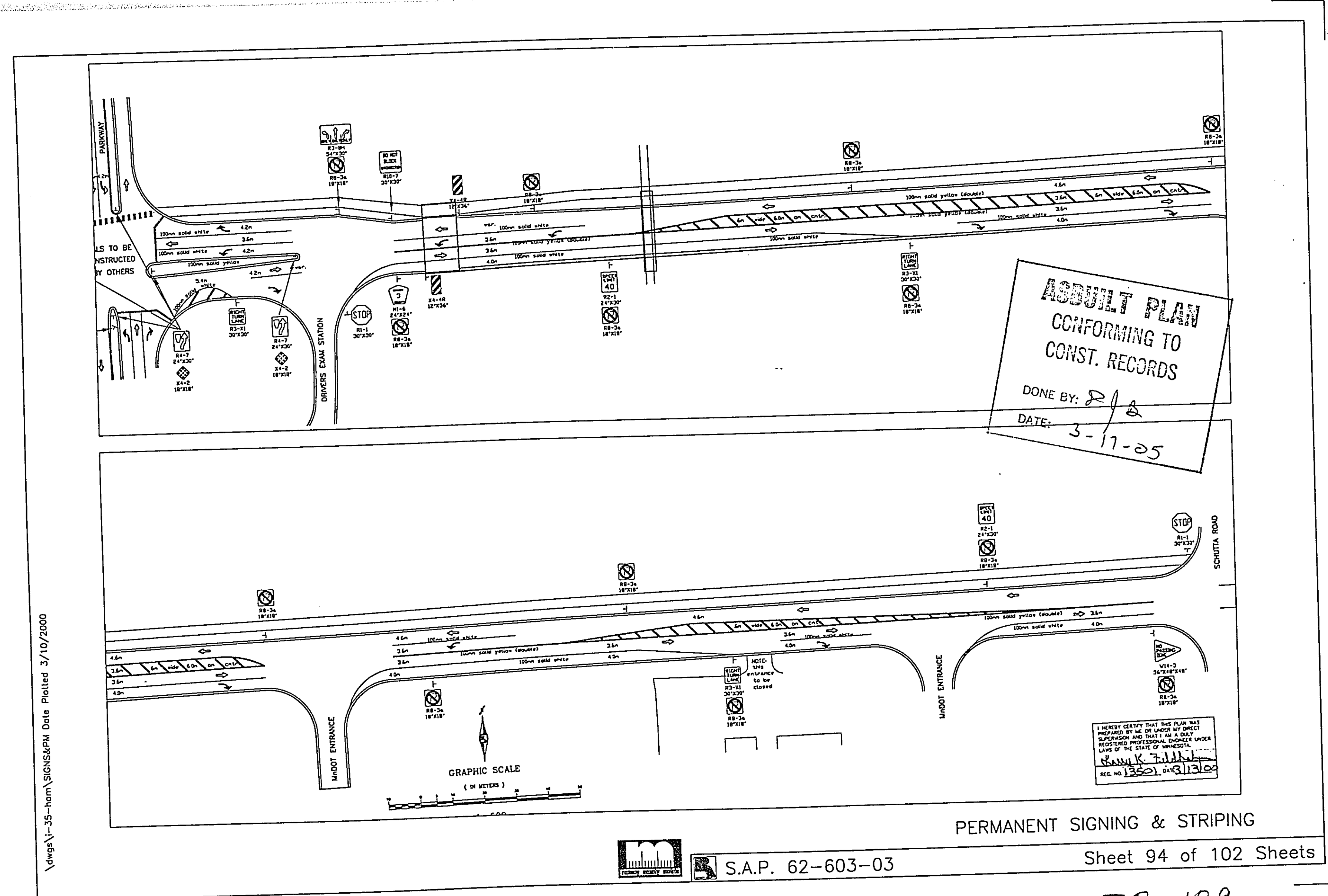
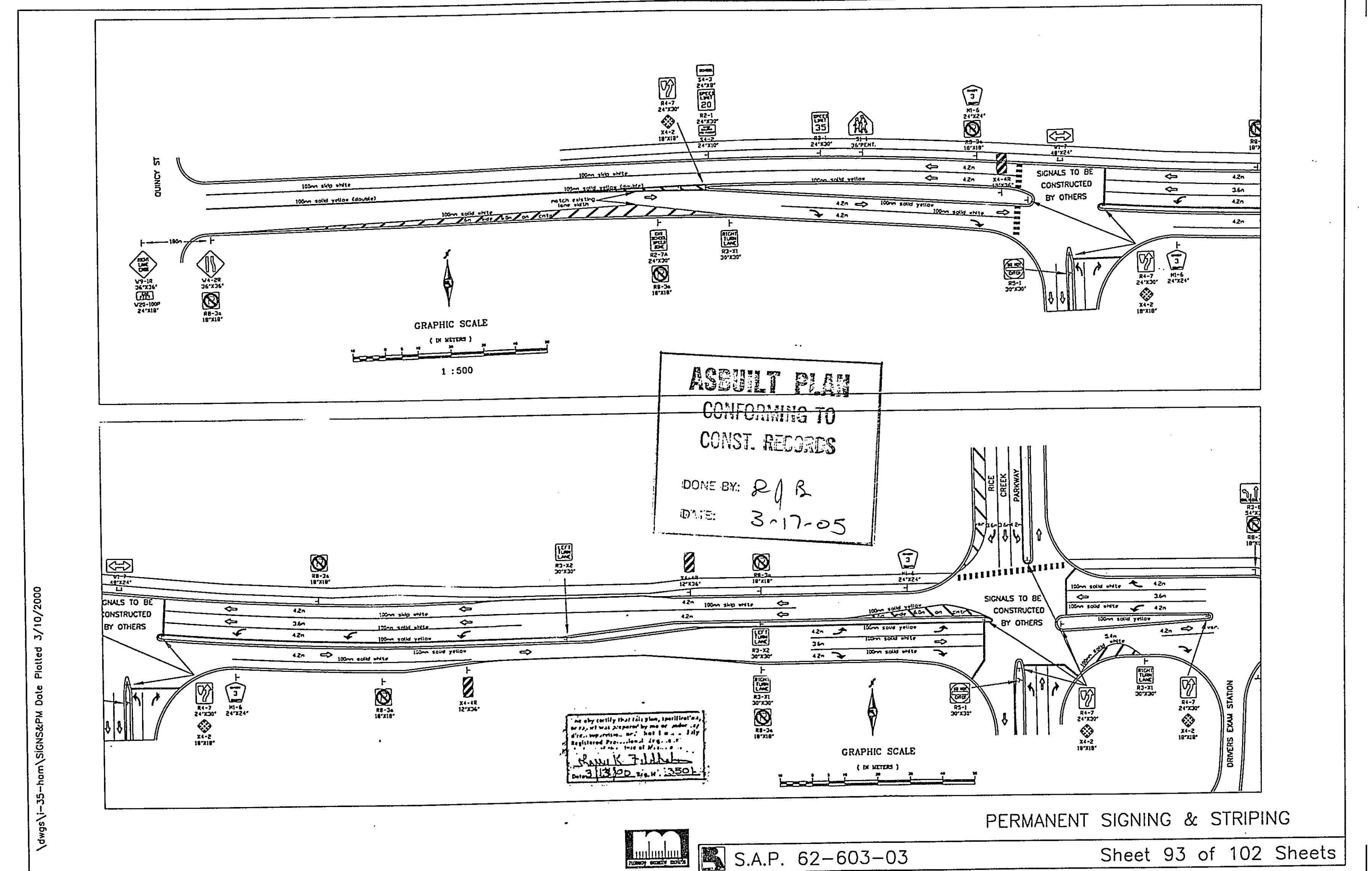
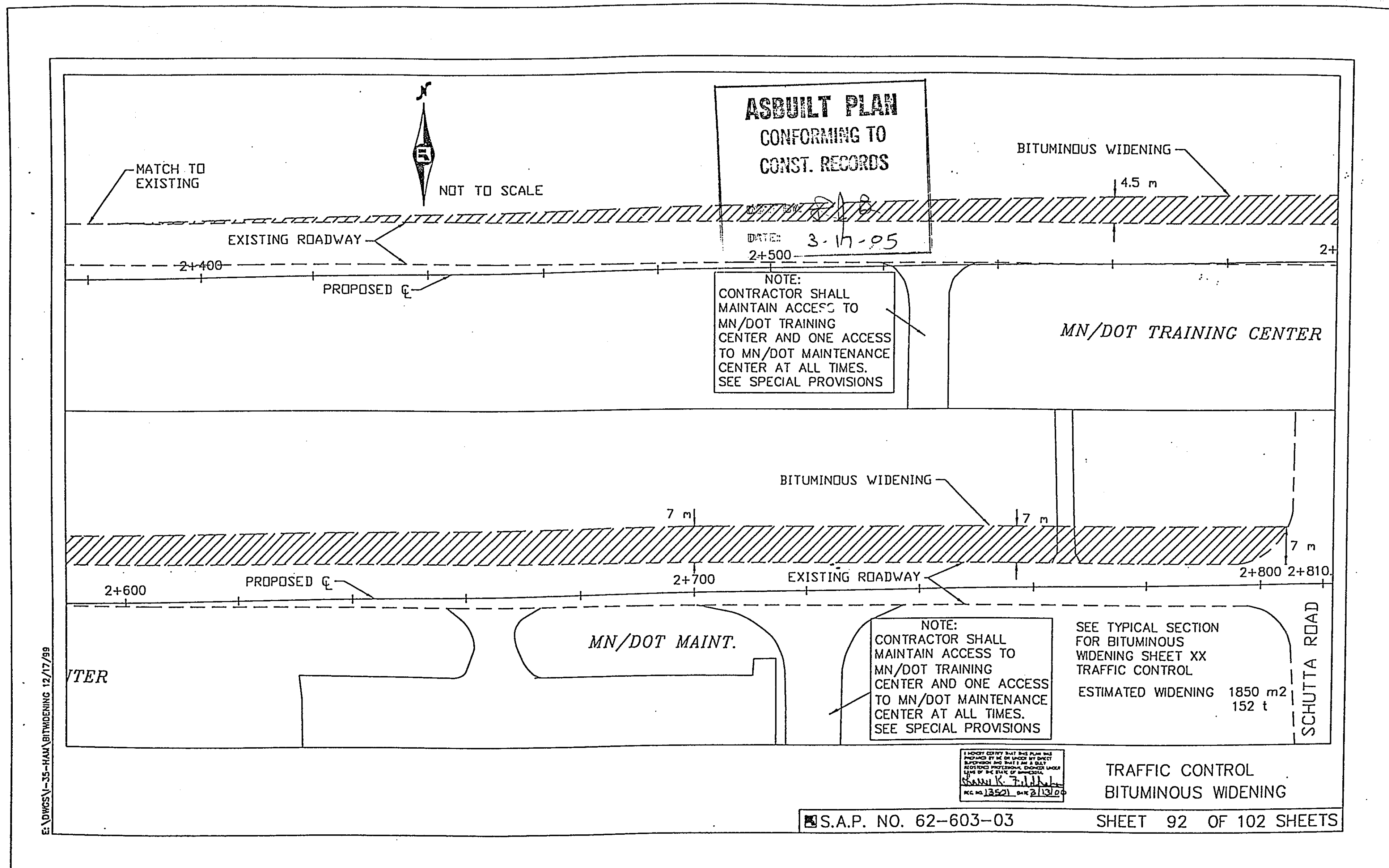
STORM SEWER LATERALS 28-189

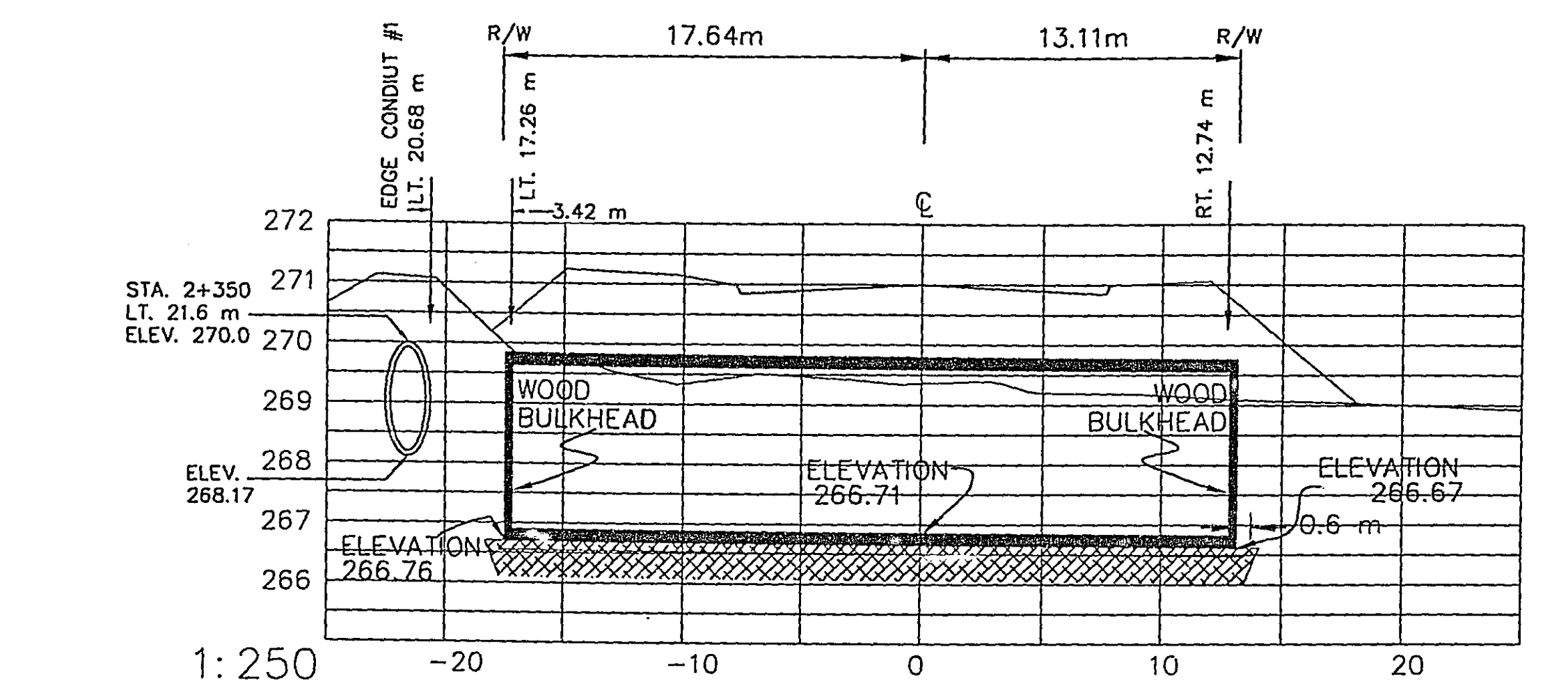
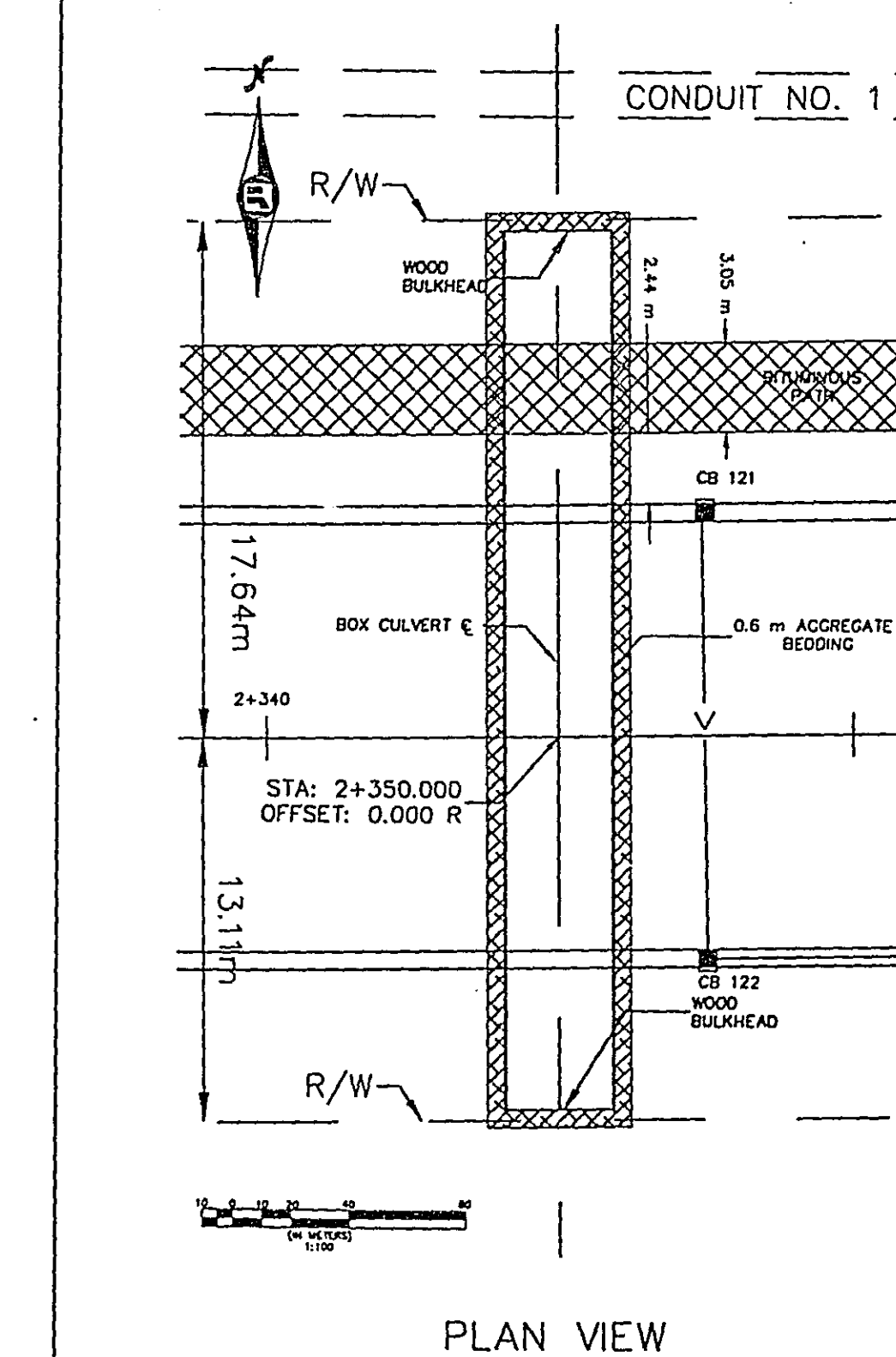
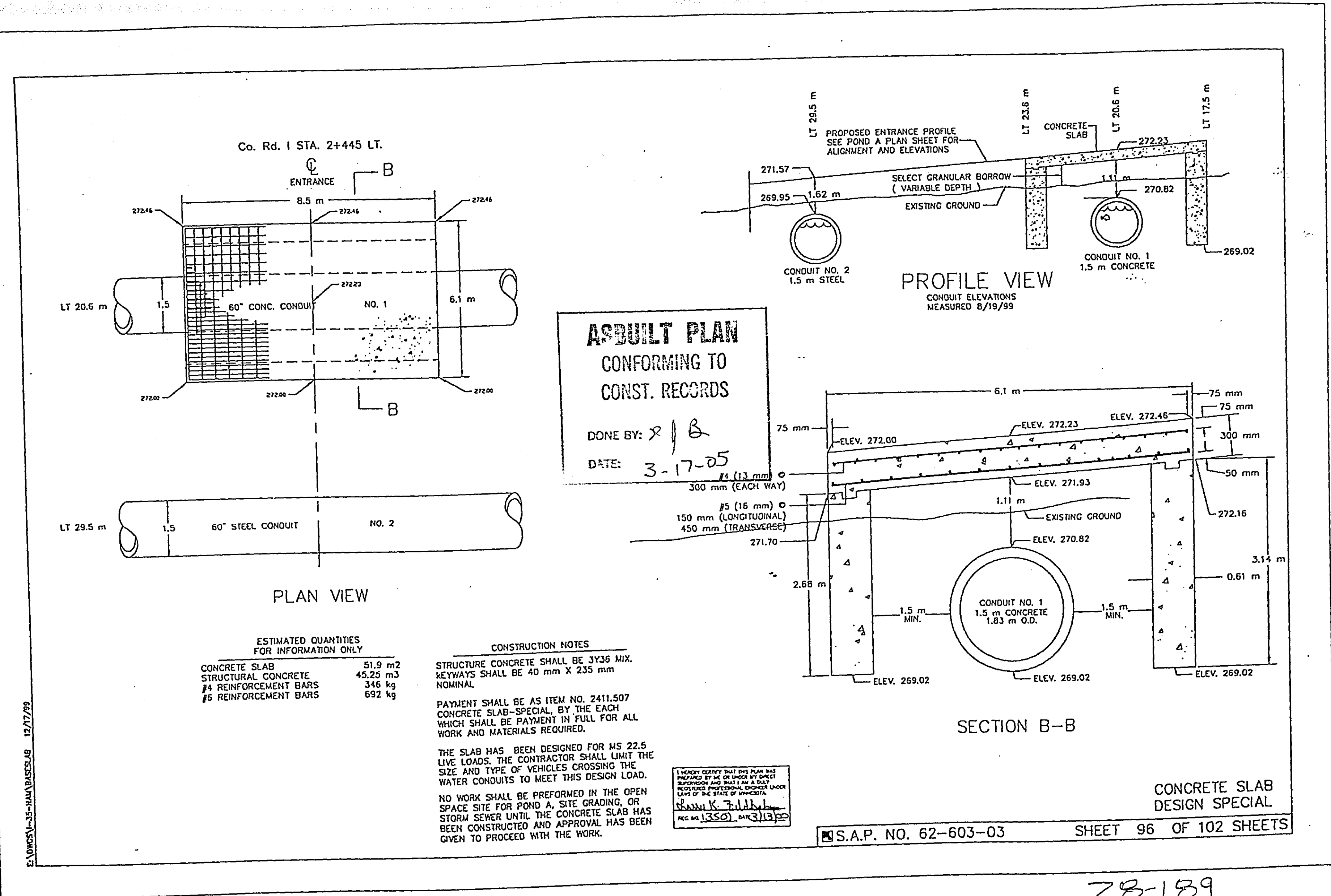
S.A.P. 62-603-03

SHEET NO. 83 OF 102 SHEETS

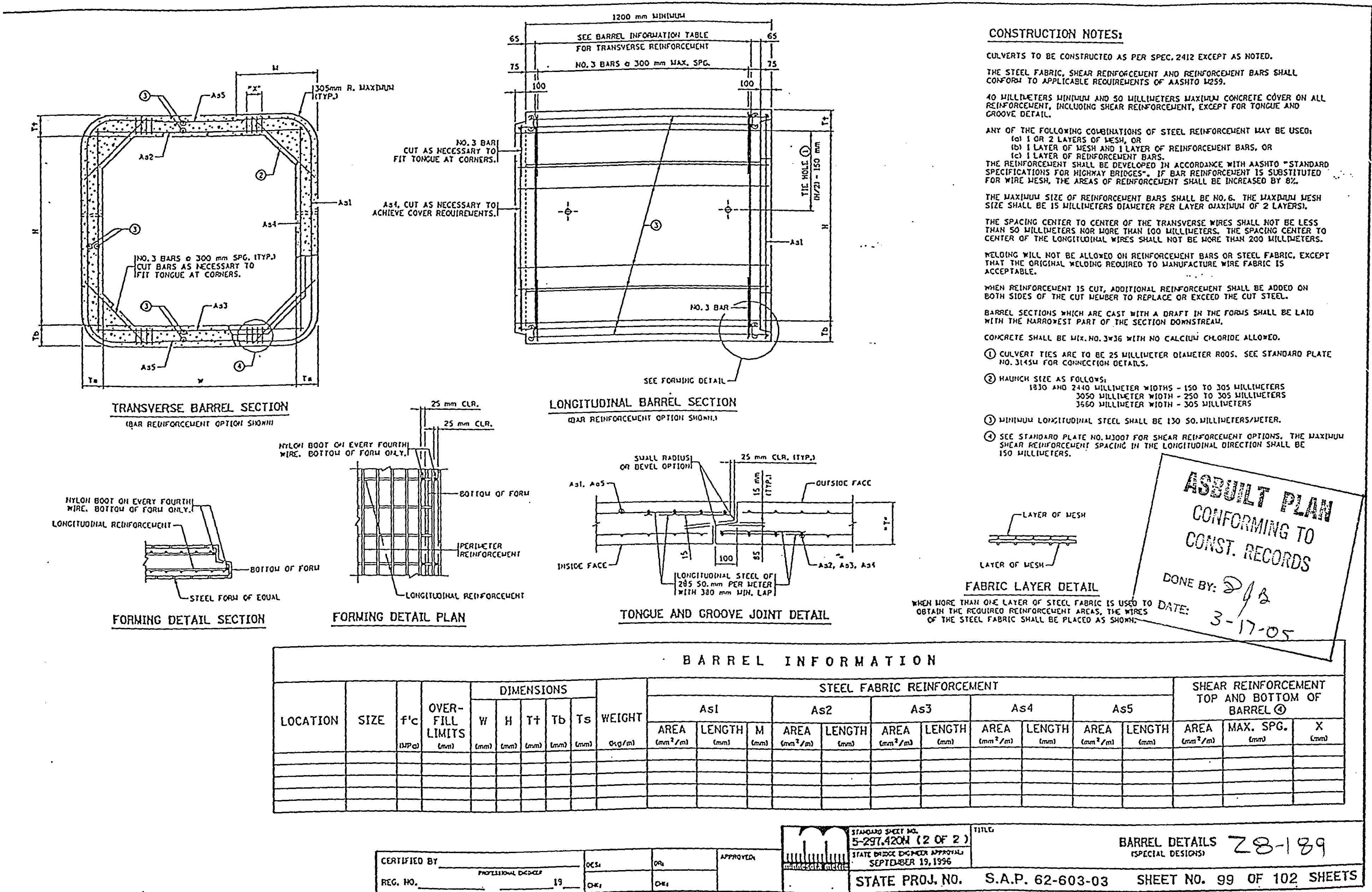
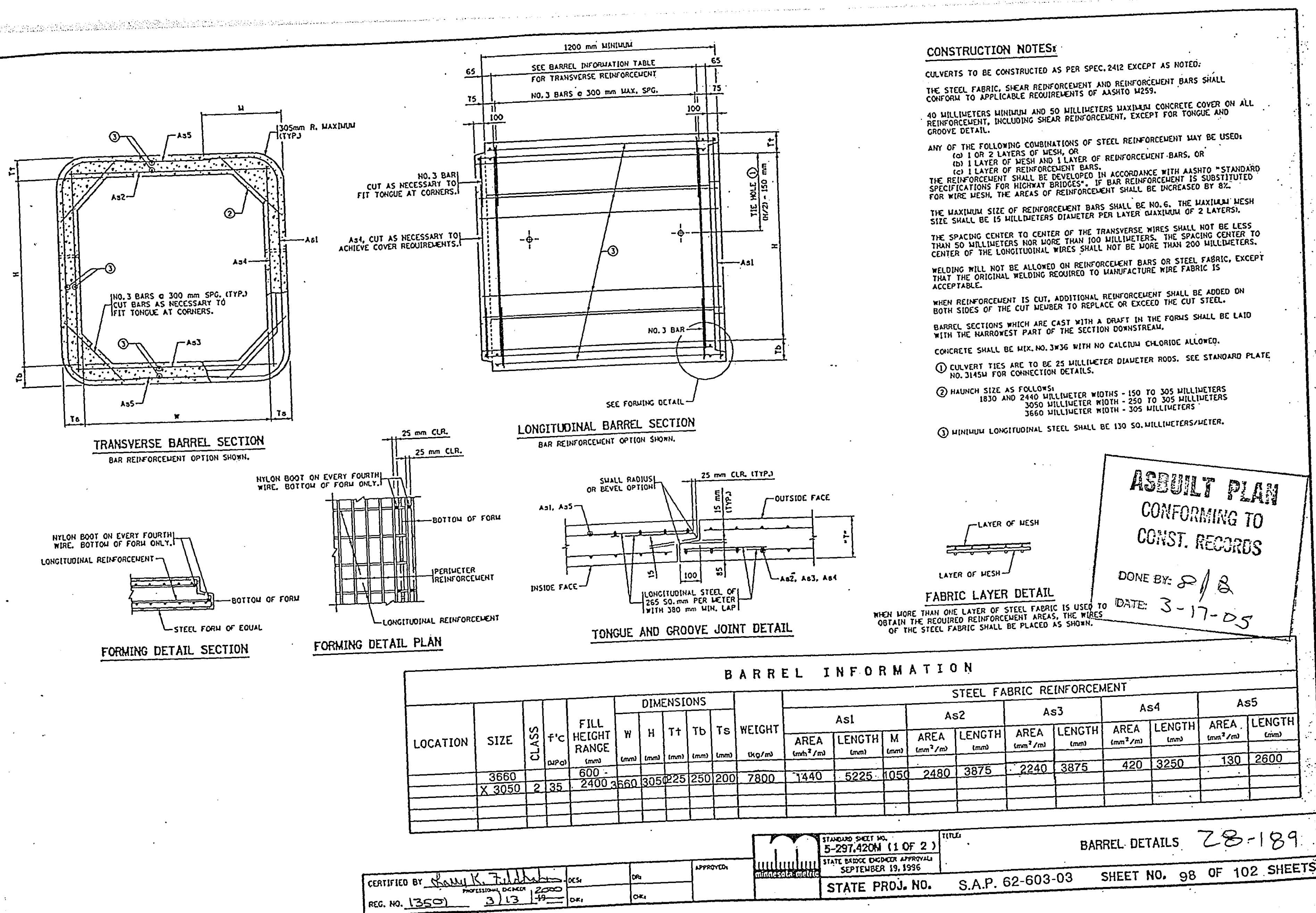






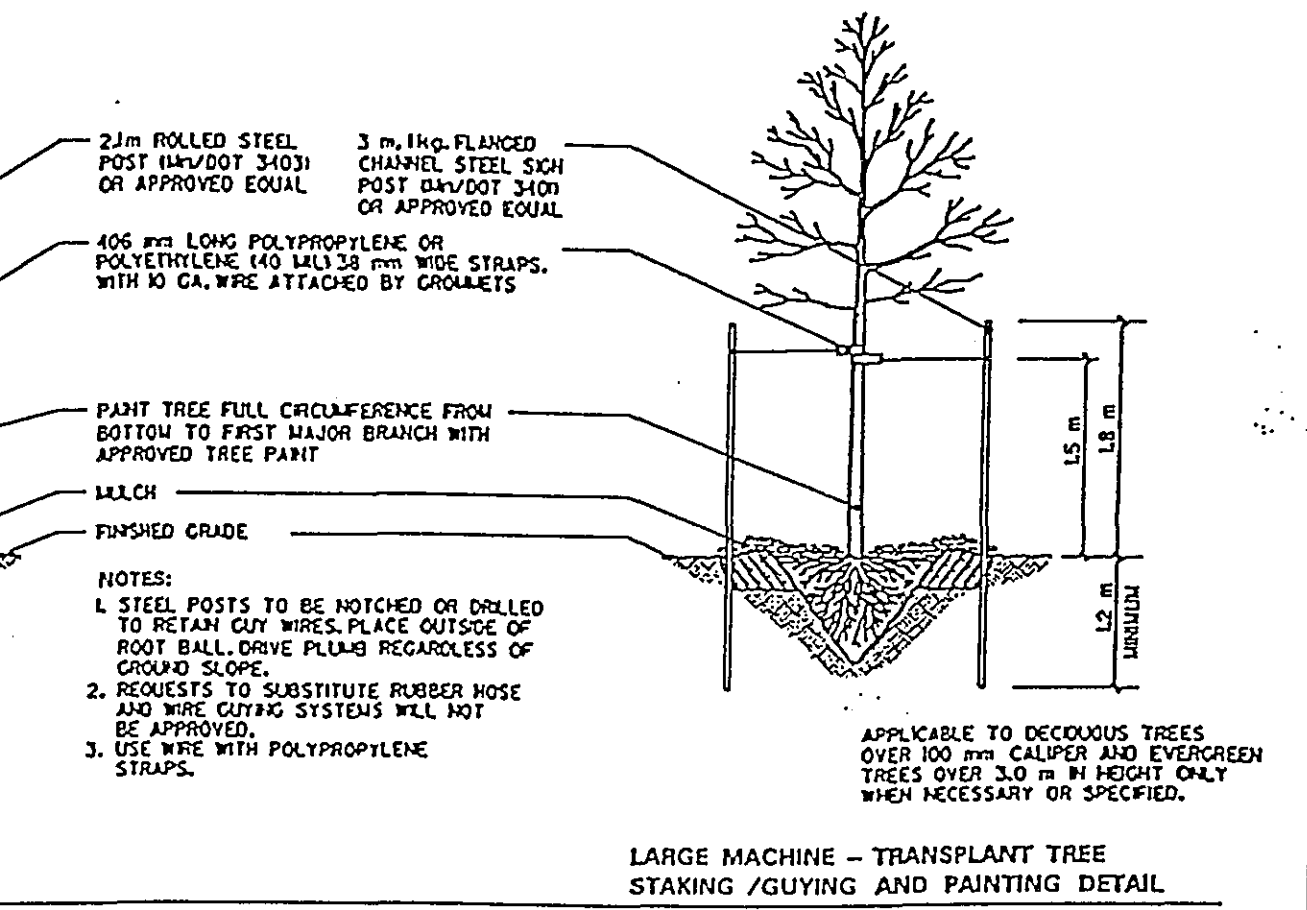
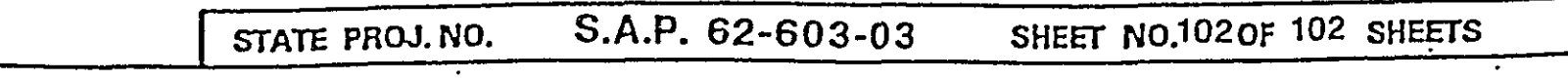
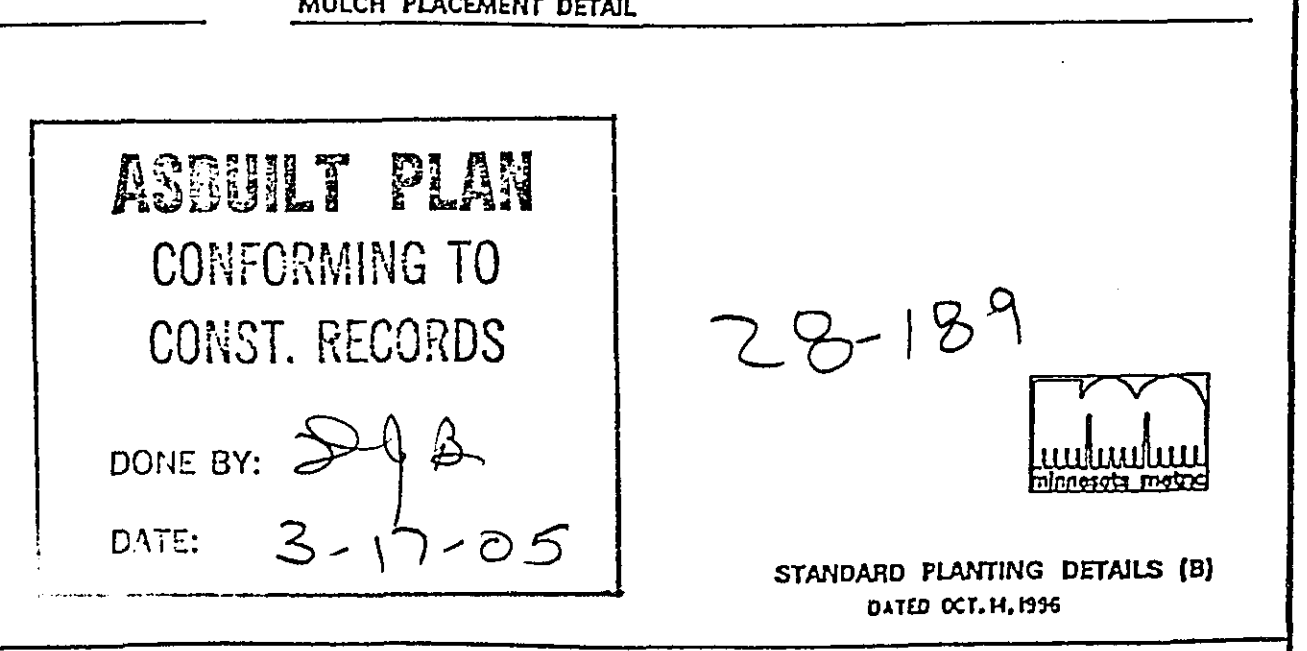


Sheet 97 of 102 Sheets
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STATE PROJ. NO. _____

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[illegible]

LEGEND OF SYMBOLS	
=====	CABLE TRAY
-----	CONDUIT - F&I
-----	CONDUIT - INPLACE
-----	DETECTOR (SPECIFY) - (SPECIFY)
-----	DIRECT BURIED COMMUNICATION CABLE - F&I
-----	DIRECT BURIED COMMUNICATION CABLE - INPLACE
-----	DIRECT BURIED POWER CABLE - F&I
-----	DIRECT BURIED POWER CABLE - INPLACE
-----	FLASHER - F&I
-----	FLASHER - INPLACE
-----	FLASHING BEACON - F&I
-----	FOUNDATION F&I, GATE ARM - F&I
-----	FOUNDATION INPLACE, GATE ARM - F&I
-----	GATE ARM - INPLACE
-----	GUARDRAIL END TREATMENT (SPECIFY) - (SPECIFY)
-----	GUARDRAIL (PLATE BEAM) - (SPECIFY)
-----	HANDHOLE - F&I
-----	HANDHOLE - INPLACE
-----	JUNCTION BOX OR CONDULET - F&I
-----	JUNCTION BOX OR CONDULET - INPLACE
-----	LANE ARROW
-----	OVERHEAD SIGN - F&I
-----	OVERHEAD SIGN - INPLACE
-----	PAD (SPECIFY) - F&I
-----	PAD (SPECIFY) - INPLACE
-----	PEDESTAL - F&I
-----	PEDESTAL - INPLACE
-----	RAMP CONTROL SIGNAL (DESIGN ONE-WAY) - F&I
-----	RAMP CONTROL SIGNAL (DESIGN TWO-WAY) - F&I
-----	RAMP CONTROL SIGNAL (DESIGN ONE-WAY) - INPLACE
-----	RAMP CONTROL SIGNAL (DESIGN TWO-WAY) - INPLACE

LEGEND OF SYMBOLS	
=====	SHELTER (TMS) - F&I
-----	SHELTER (TMS) - INPLACE
-----	SIGN (TYPE A OR D) - (SPECIFY)
-----	SIGN (TYPE C) - (SPECIFY)
-----	SIGN (TYPE CWS) - (SPECIFY)
-----	SIGNAL FACE - F&I
-----	SIGNAL FACE - INPLACE
-----	SPLICE CABINET (SPECIFY) - (SPECIFY)
-----	SPLICE VAULT (FIBER OPTIC) - (SPECIFY)
-----	TELEVISION CAMERA (CCTV) - (SPECIFY)
-----	WOOD POLE - F&I
-----	WOOD POLE - INPLACE
-----	WOOD POLE F&I, SERVICE INSTALLATION - F&I
-----	WOOD POLE INPLACE, SERVICE INSTALLATION - F&I
-----	WOOD POLE INPLACE, SERVICE INSTALLATION - INPLACE
-----	FIBER PATCHING SHELTER - F&I
-----	OUTDOOR FIBER SPLICE ENCLOSURE - F&I

TABULATION OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	UNIT	SM 62-603-03 QUANTITY	TOTAL QUANTITY
2104.509	REMOVE HANDHOLES	EACH	3	
2550.512	HANDHOLE TYPE-PVC CONCRETE COVER	EACH	3	
2550.523	78mm NON-METALIC CONDUIT	m	125	
2550.523	78mm PUSHED CONDUIT	m	55	
2550.531	TELEPHONE CABLE 12 PR NO 19	m	1200	
2550.532	POWER CABLE 3 CONDUCTOR NO 8	m	375	
2550.532	CONTROL CABLE 15 CONDUCTOR NO 18	m	375	
2550.533	VIDEO CABLE NO-11	m	375	
2550.601	FIBER OPTIC CABLE TESTING	LUMP SUM	1	
2550.602	OUTDOOR FIBER SPLICE ENCLOSURE	EACH	1	
2550.602	FIBER OPTIC CABLE SPLICING	(1)	EACH	2
2550.602	BURIED CABLE SIGN	EACH	8	
2550.603	INSTALL FIBER OPTIC CABLE 12MM-24SM	(2)	m	1280

(1) PER EACH LOCATION WHERE SPLICING IS PERFORMED
(2) CABLE TO BE SUPPLIED BY HANSEY COUNTY

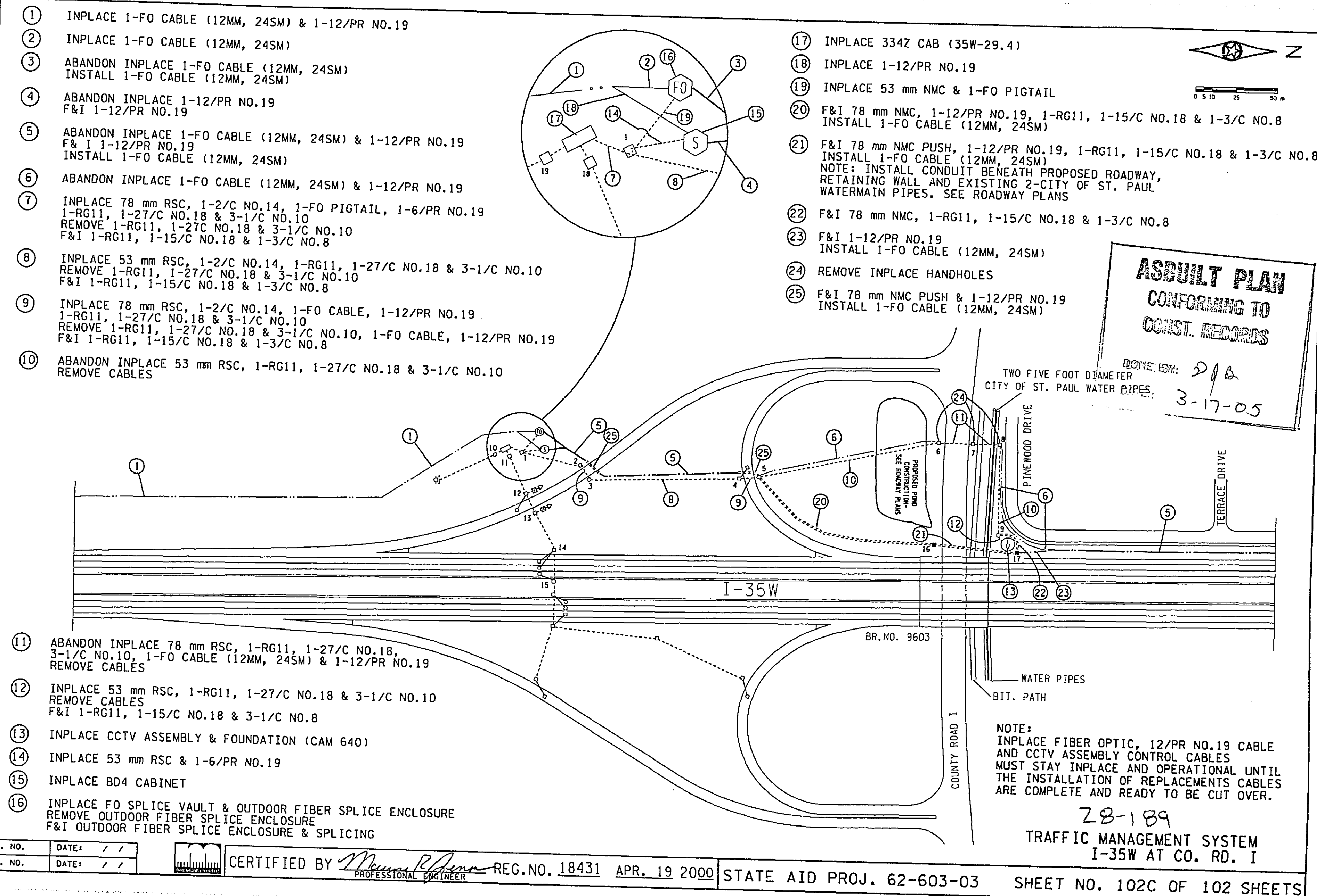
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *218*
DATE: *3-17-05*

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TMS COMPONENTS AND
TABULATION OF ESTIMATED QUANTITIES

REV. NO. DATE: / /
REV. NO. DATE: / /
CERTIFIED BY *M. R. Jones* REG. NO. 18431 APR. 19 2000 STATE AID PROJ. 62-603-03 SHEET NO. 102B OF 102 SHEETS



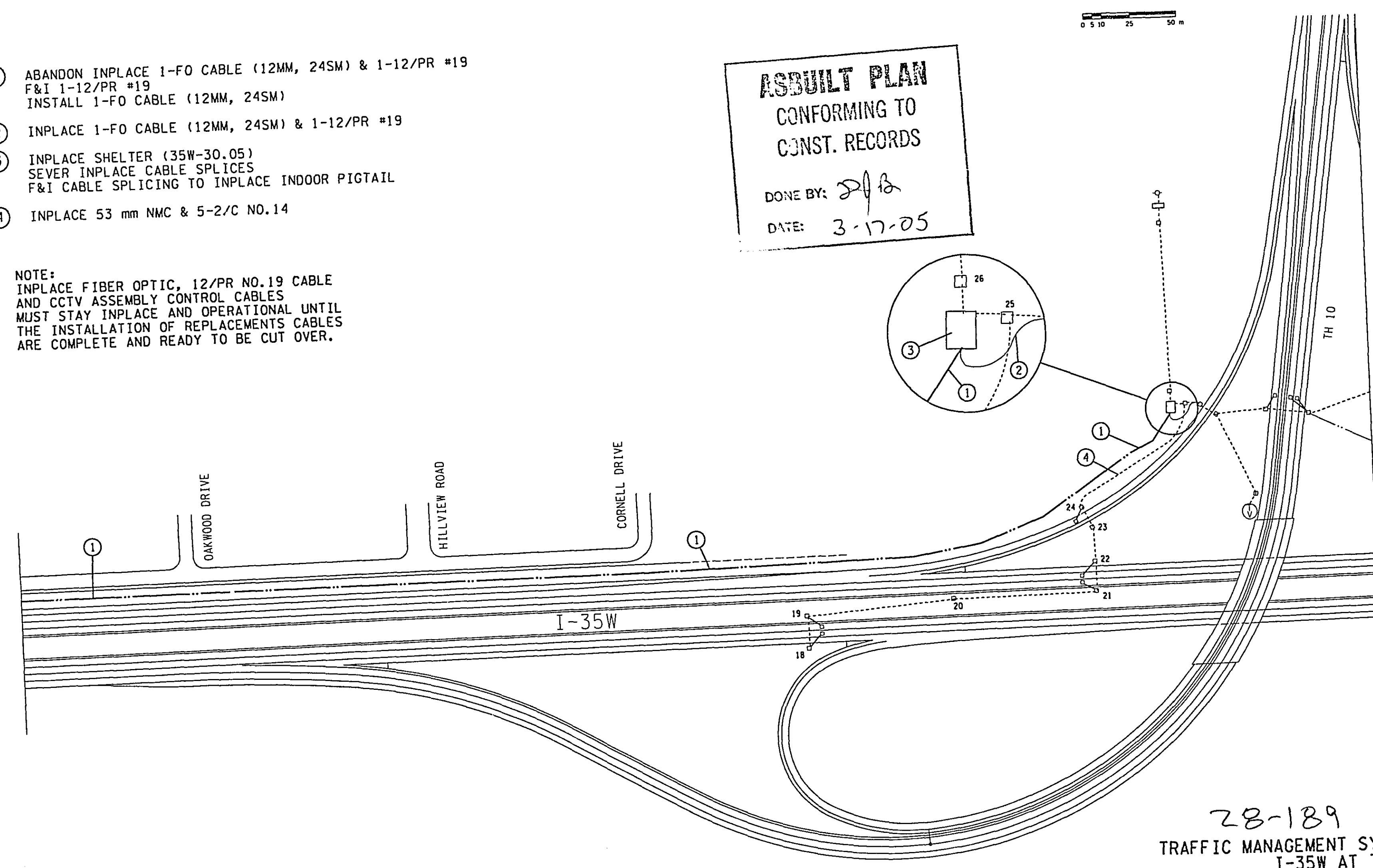
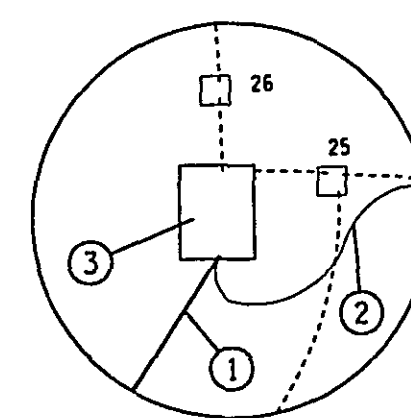
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REV. NO. DATE: / /
CERTIFIED BY *M. R. Jones* REG. NO. 18431 APR. 19 2000 STATE AID PROJ. 62-603-03 SHEET NO. 102C OF 102 SHEETS

- ABANDON INPLACE 1-FO CABLE (12MM, 24SM) & 1-12/PR #19
INSTALL 1-FO CABLE (12MM, 24SM)
- INPLACE 1-FO CABLE (12MM, 24SM) & 1-12/PR #19
- INPLACE SHELTER (35W-30.05)
SEVER INPLACE CABLE SPLICES
F&I CABLE SPLICING TO INPLACE INDOOR PIGTAIL
- INPLACE 53 mm NMC & 5-2/C NO.14

NOTE:
INPLACE FIBER OPTIC, 12/PR NO.19 CABLE
AND CCTV ASSEMBLY CONTROL CABLES
MUST STAY INPLACE AND OPERATIONAL UNTIL
THE INSTALLATION OF REPLACEMENTS CABLES
ARE COMPLETE AND READY TO BE CUT OVER.

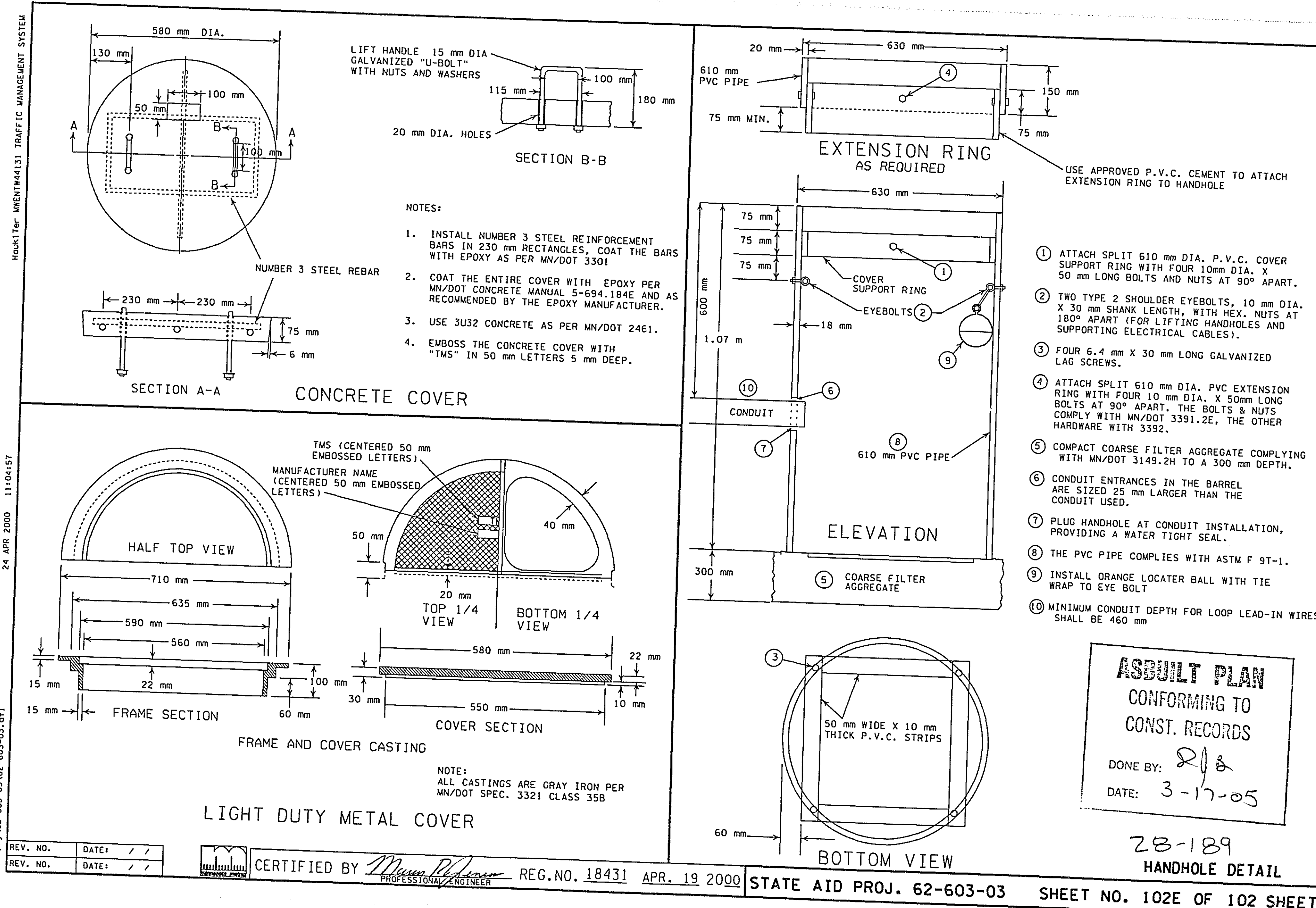
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *218*
DATE: *3-17-05*

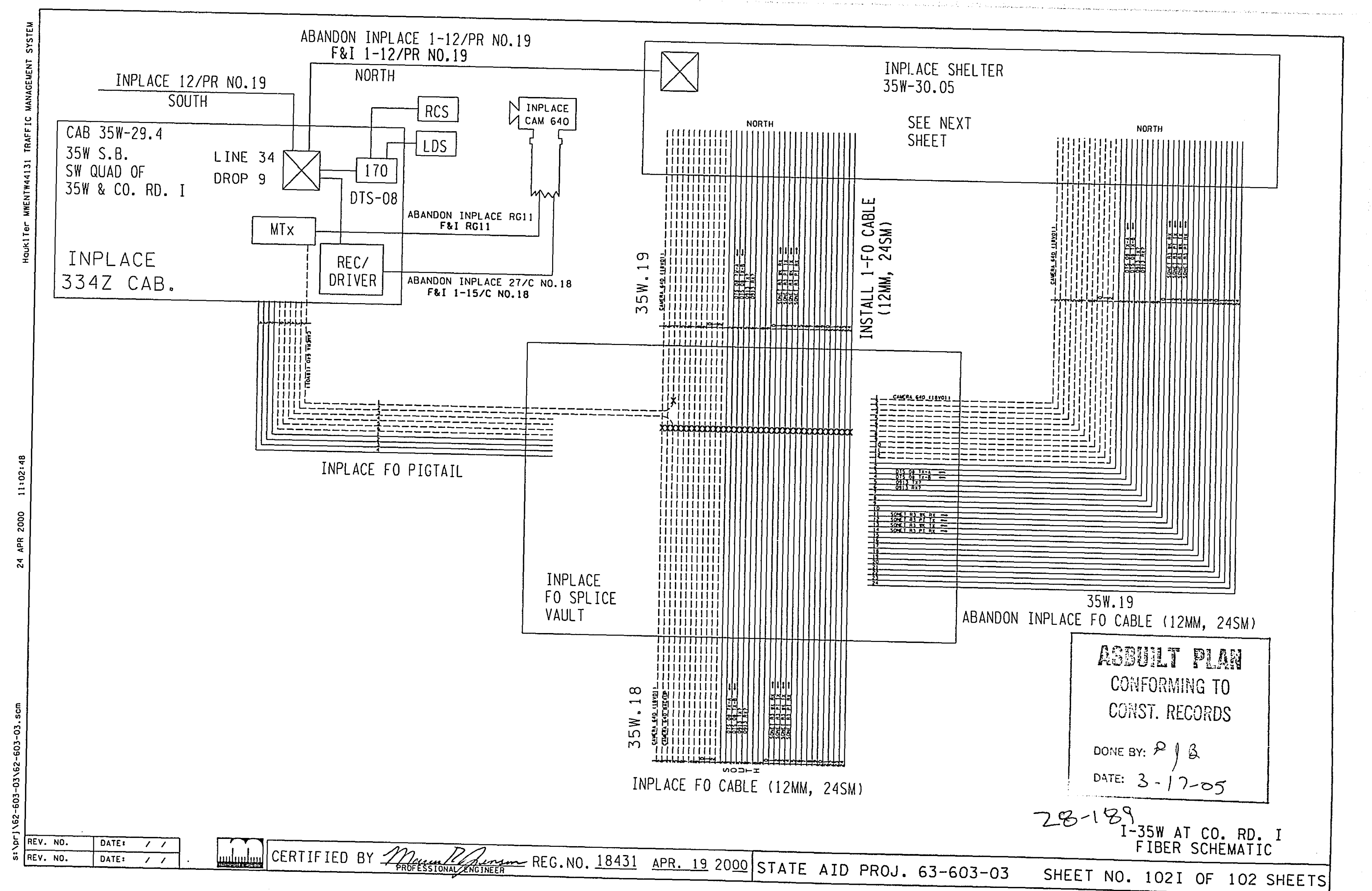
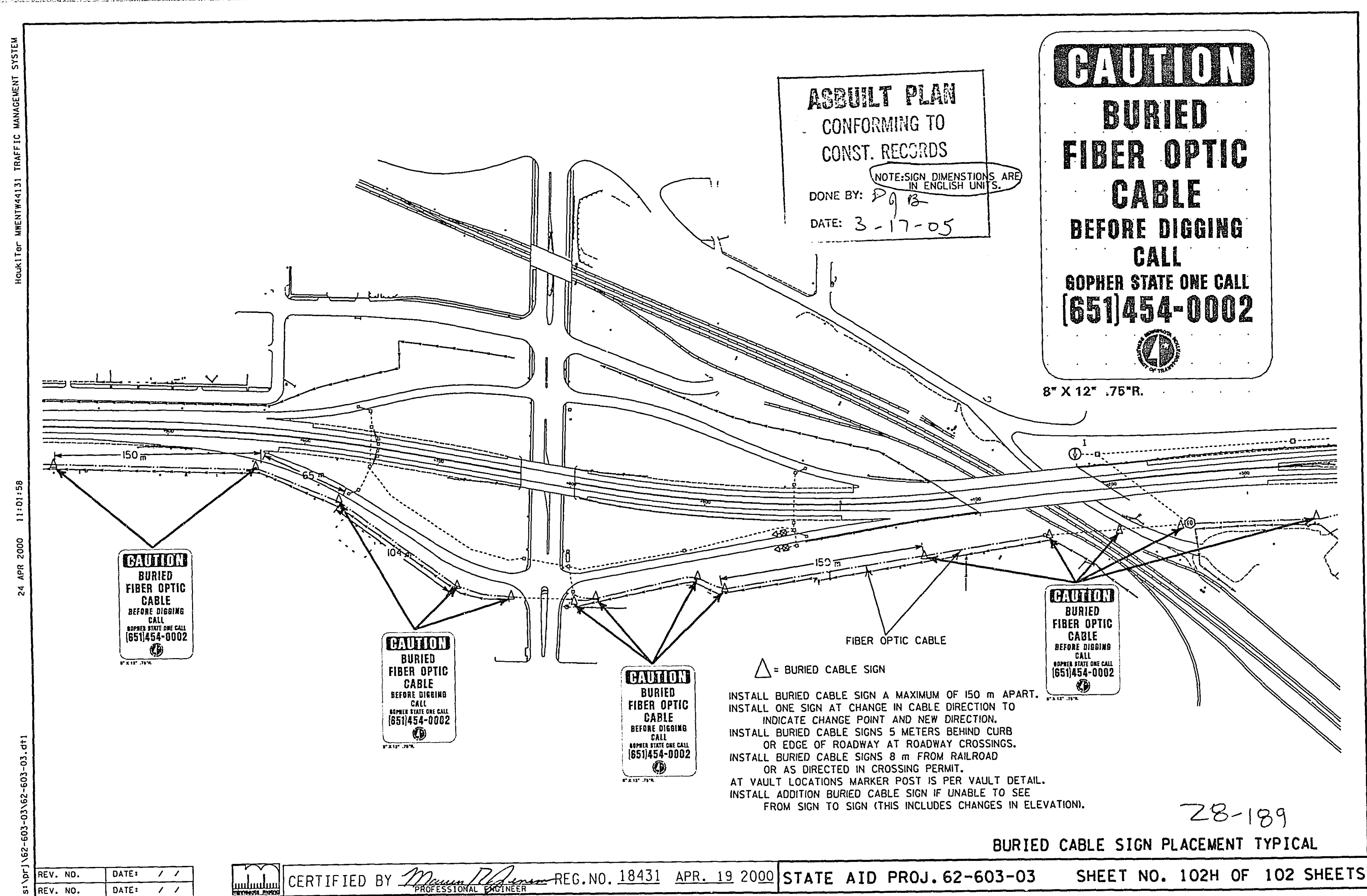
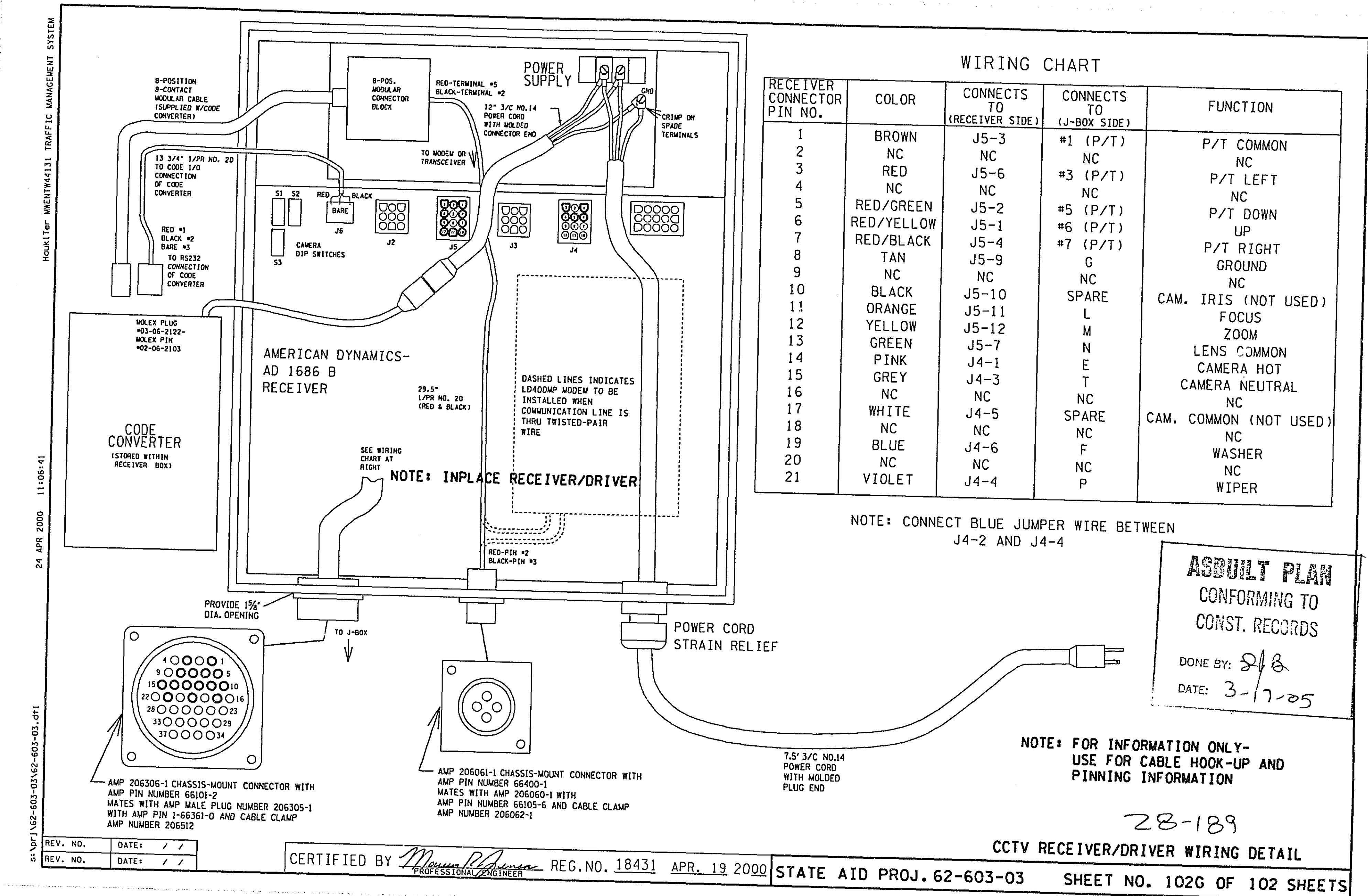
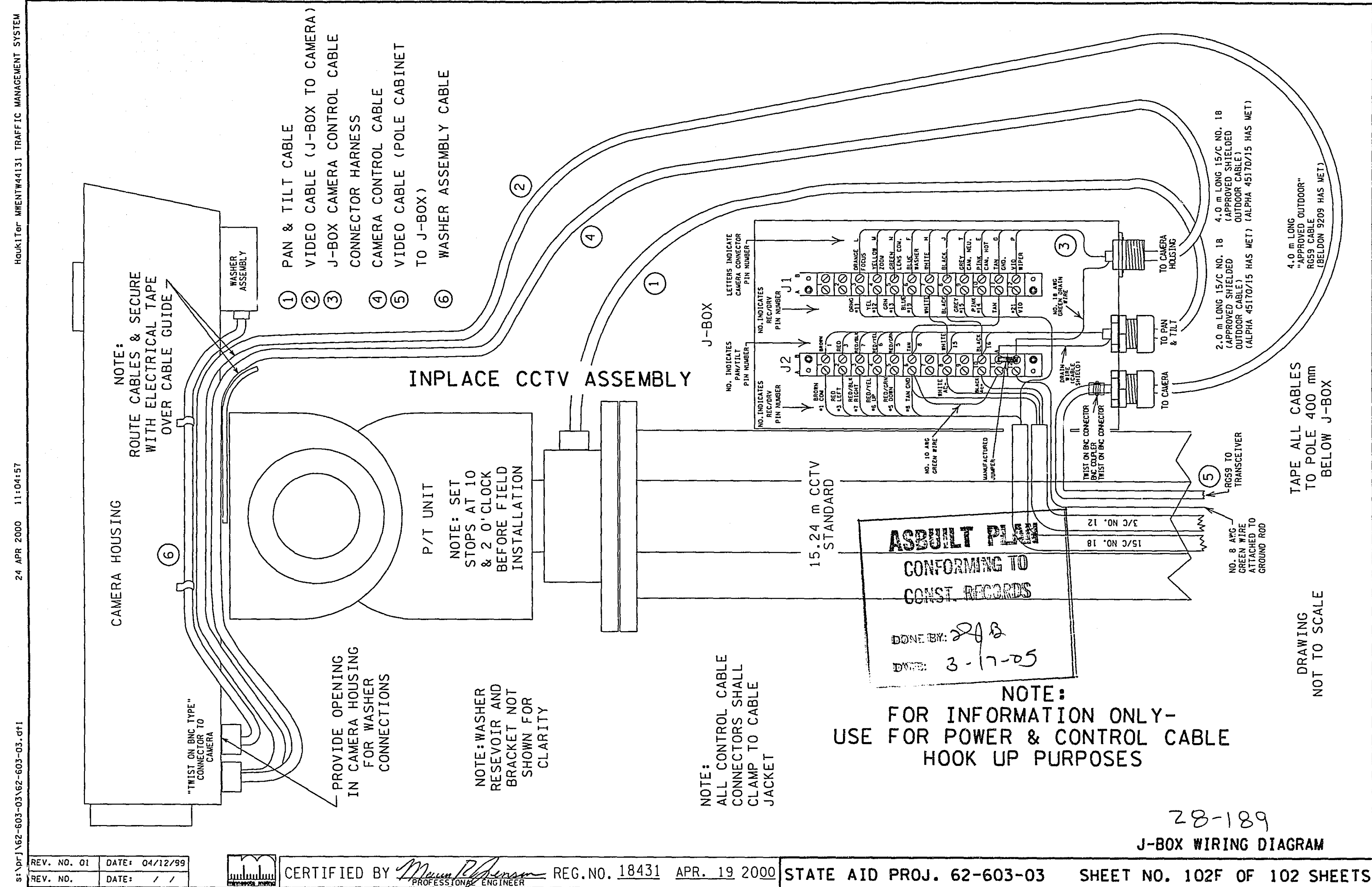


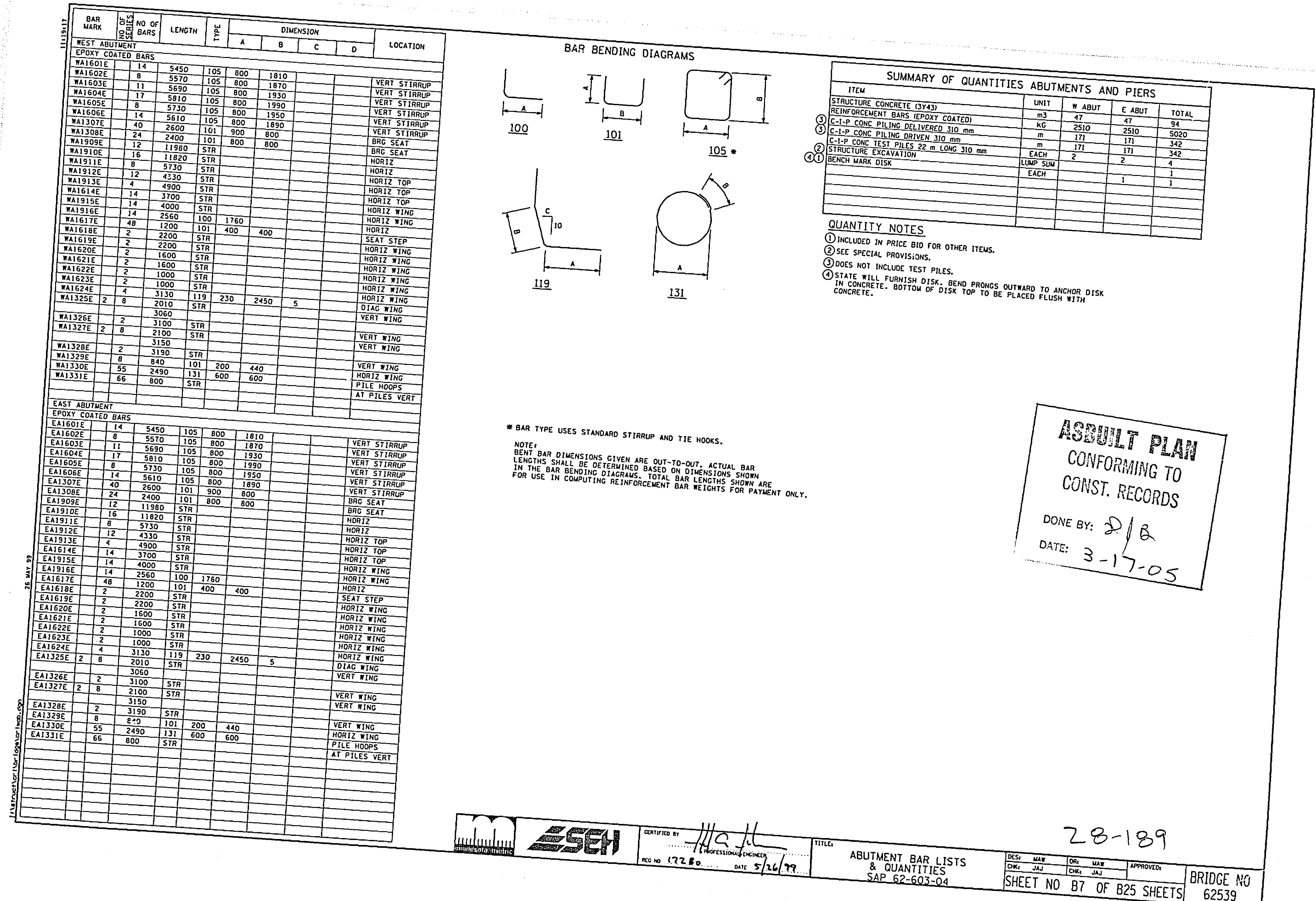
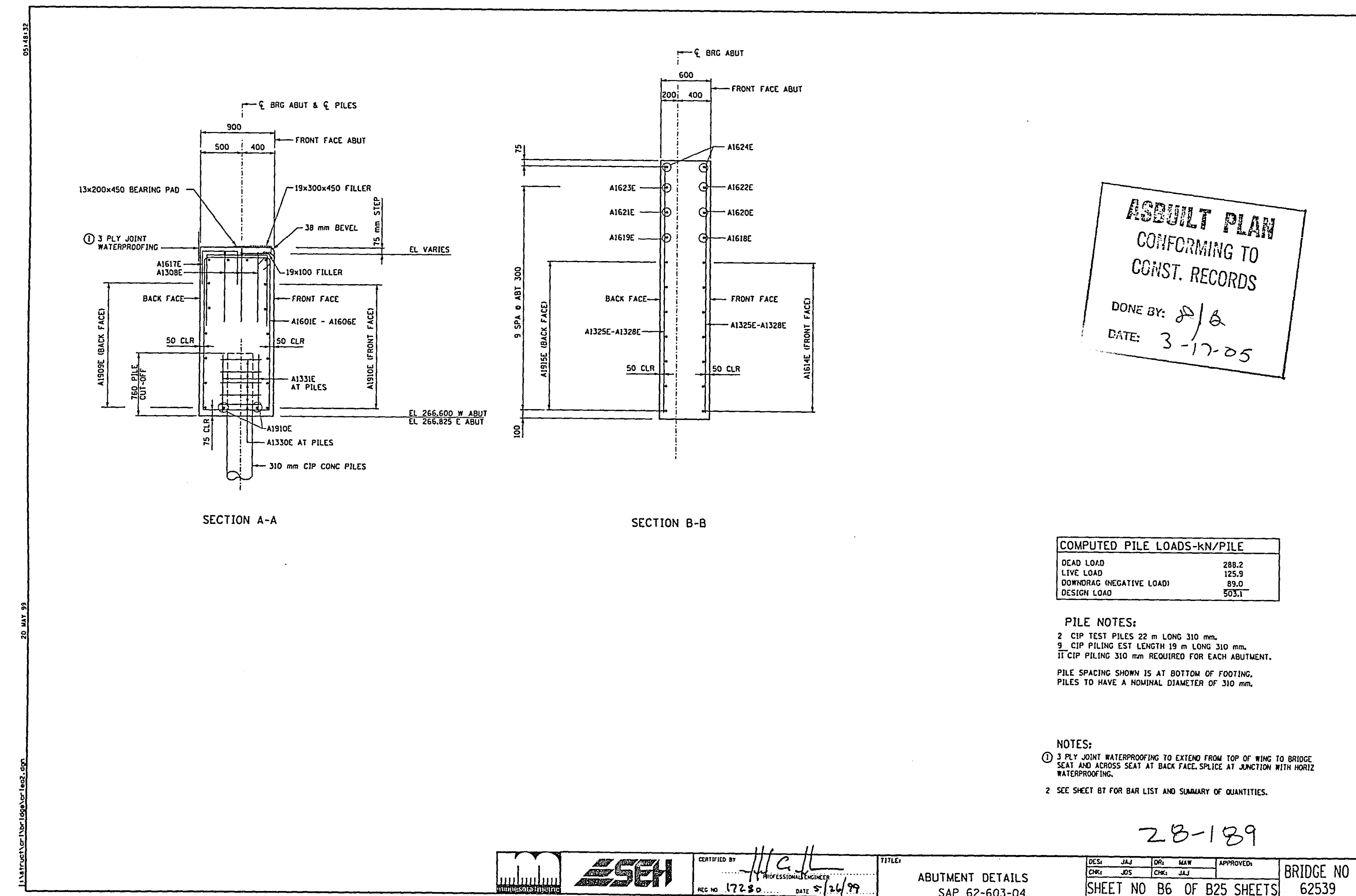
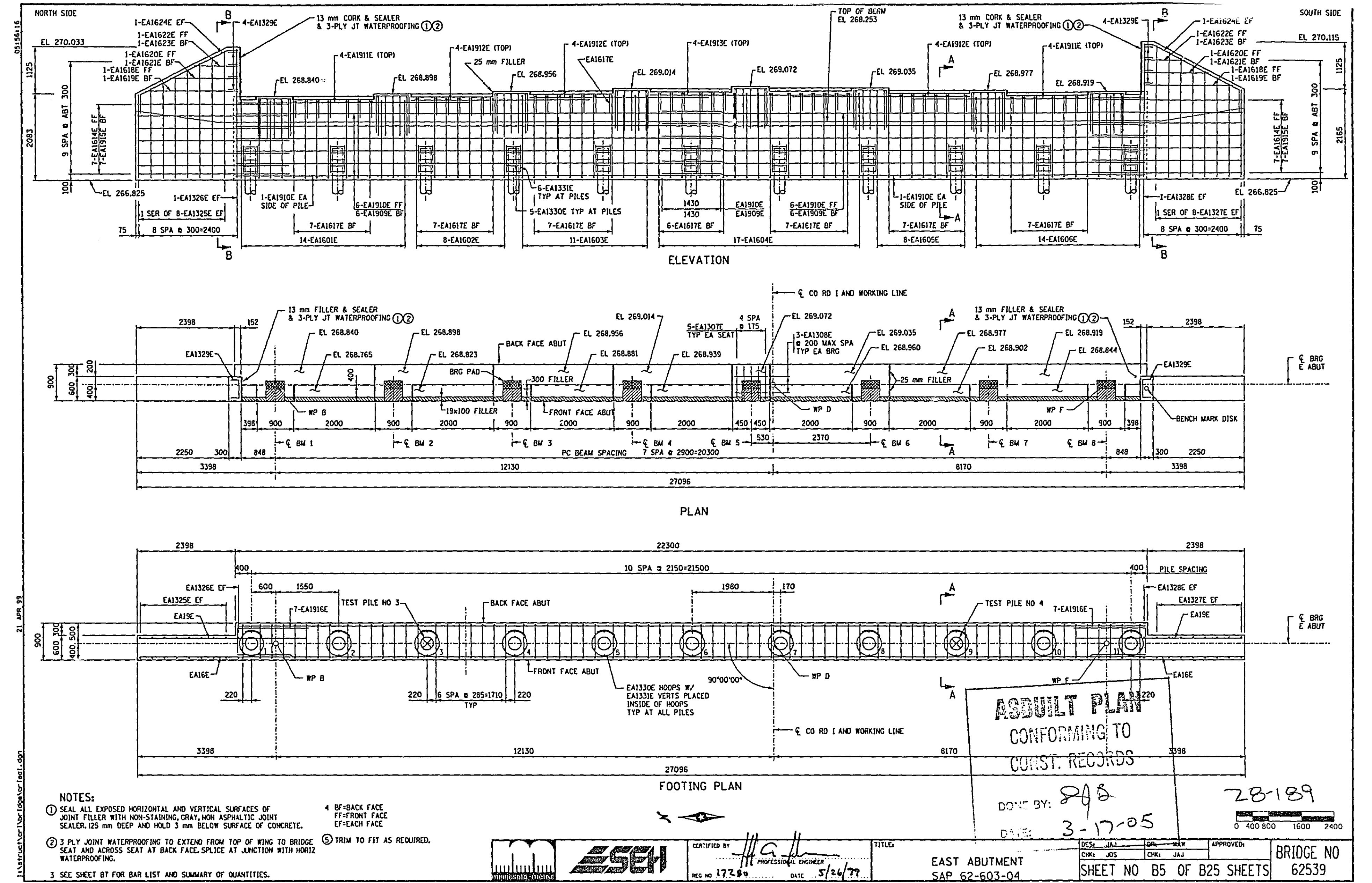
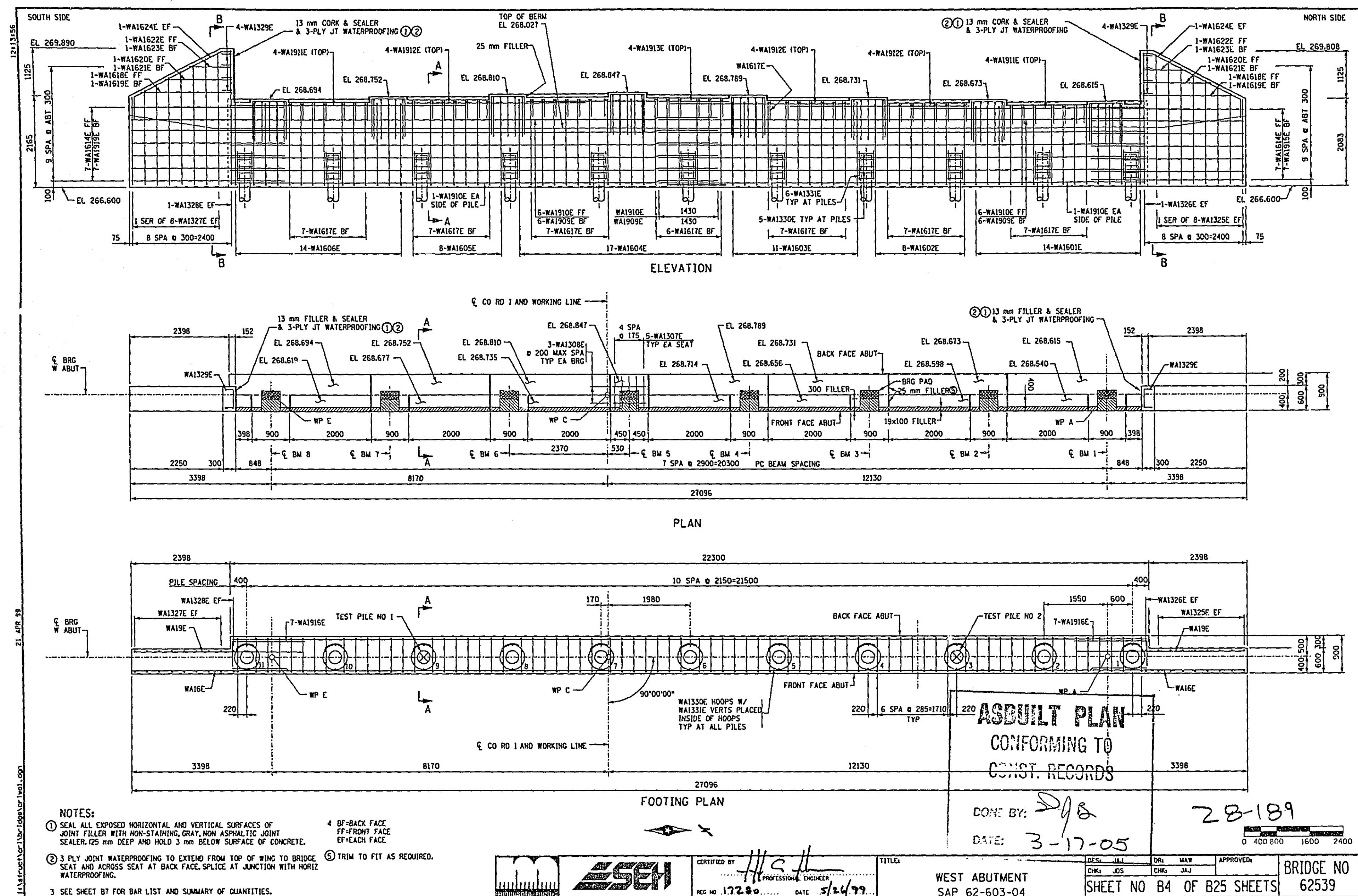
28-189
TRAFFIC MANAGEMENT SYSTEM
I-35W AT TH 10

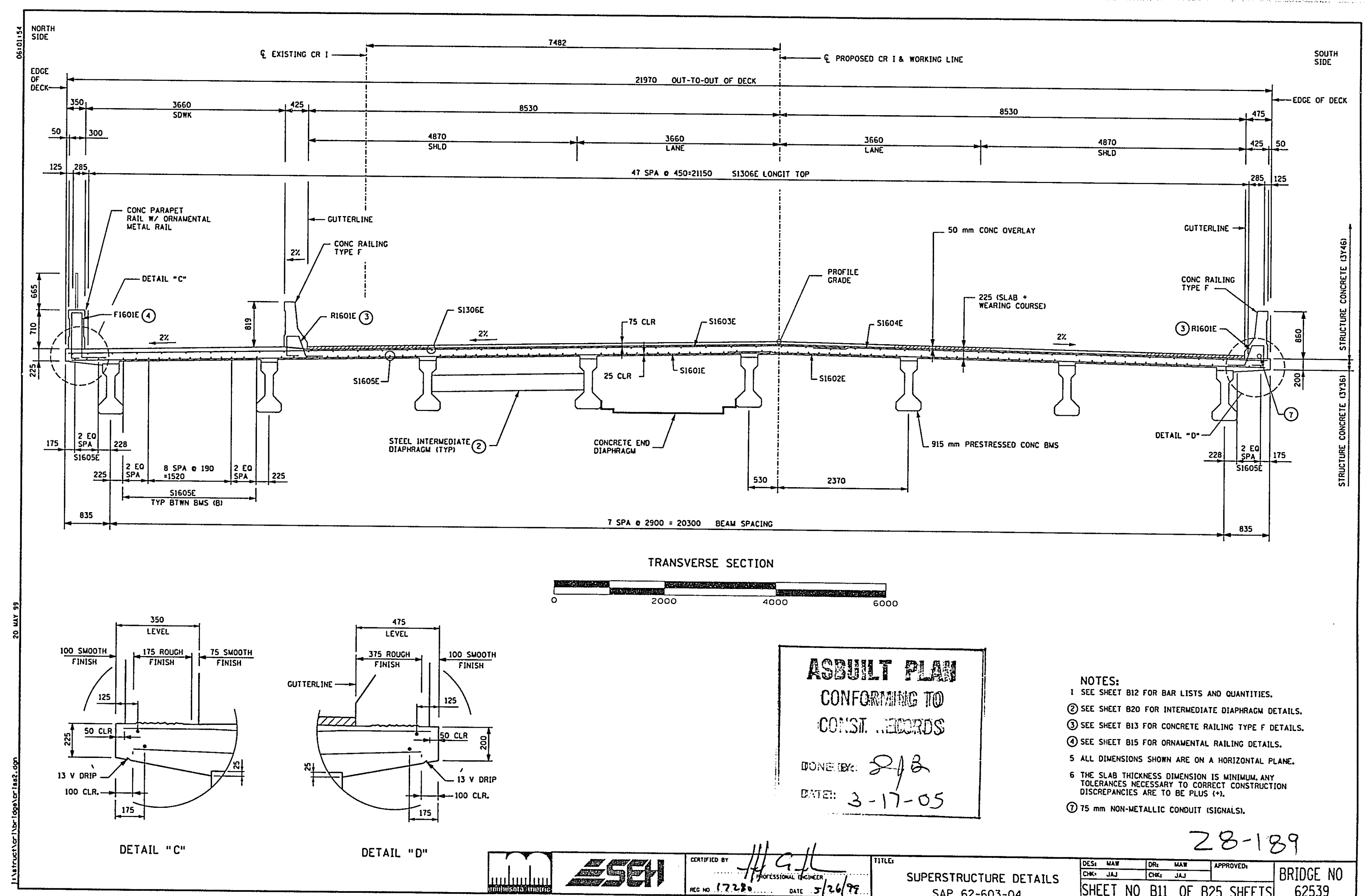
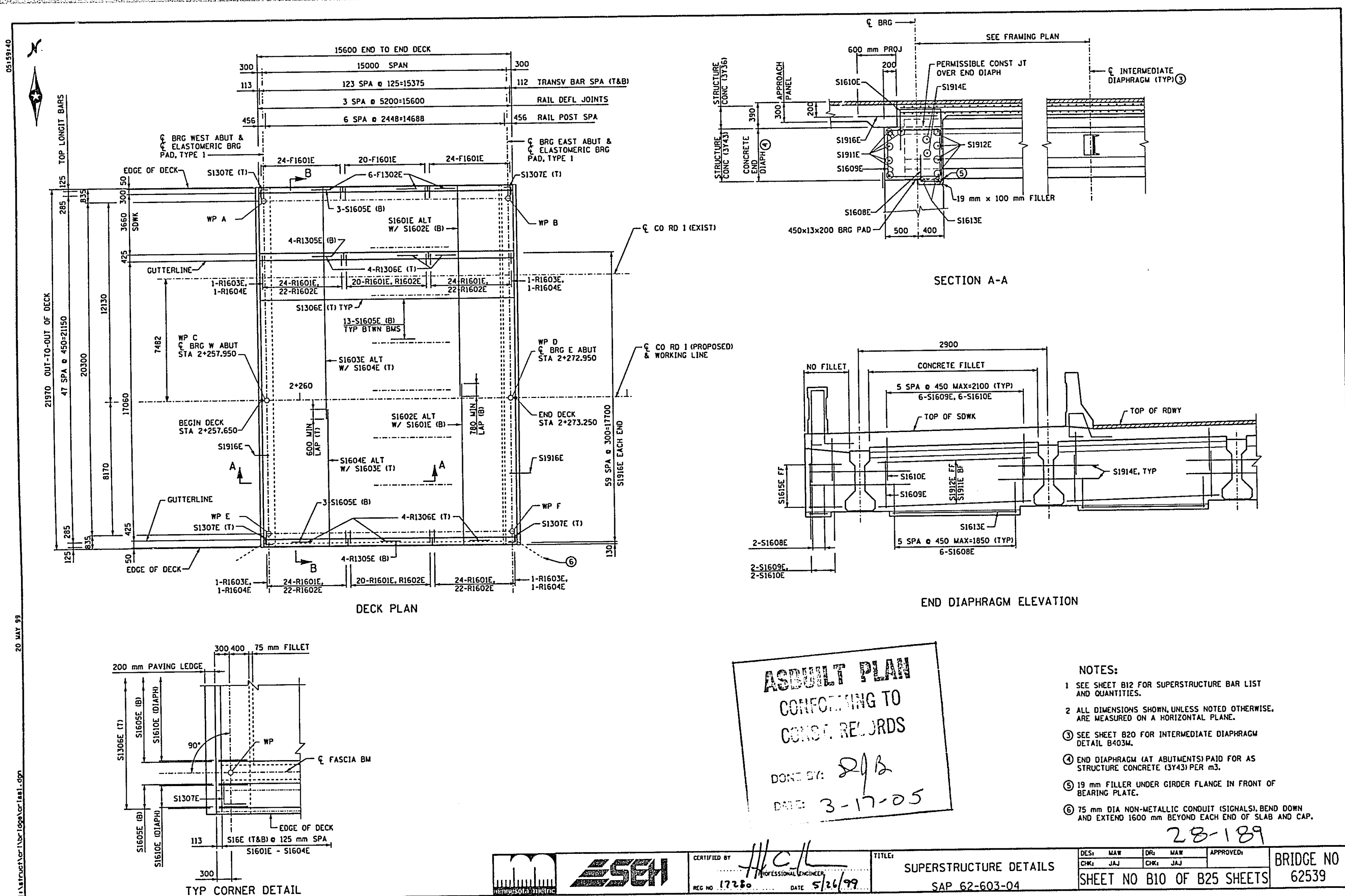
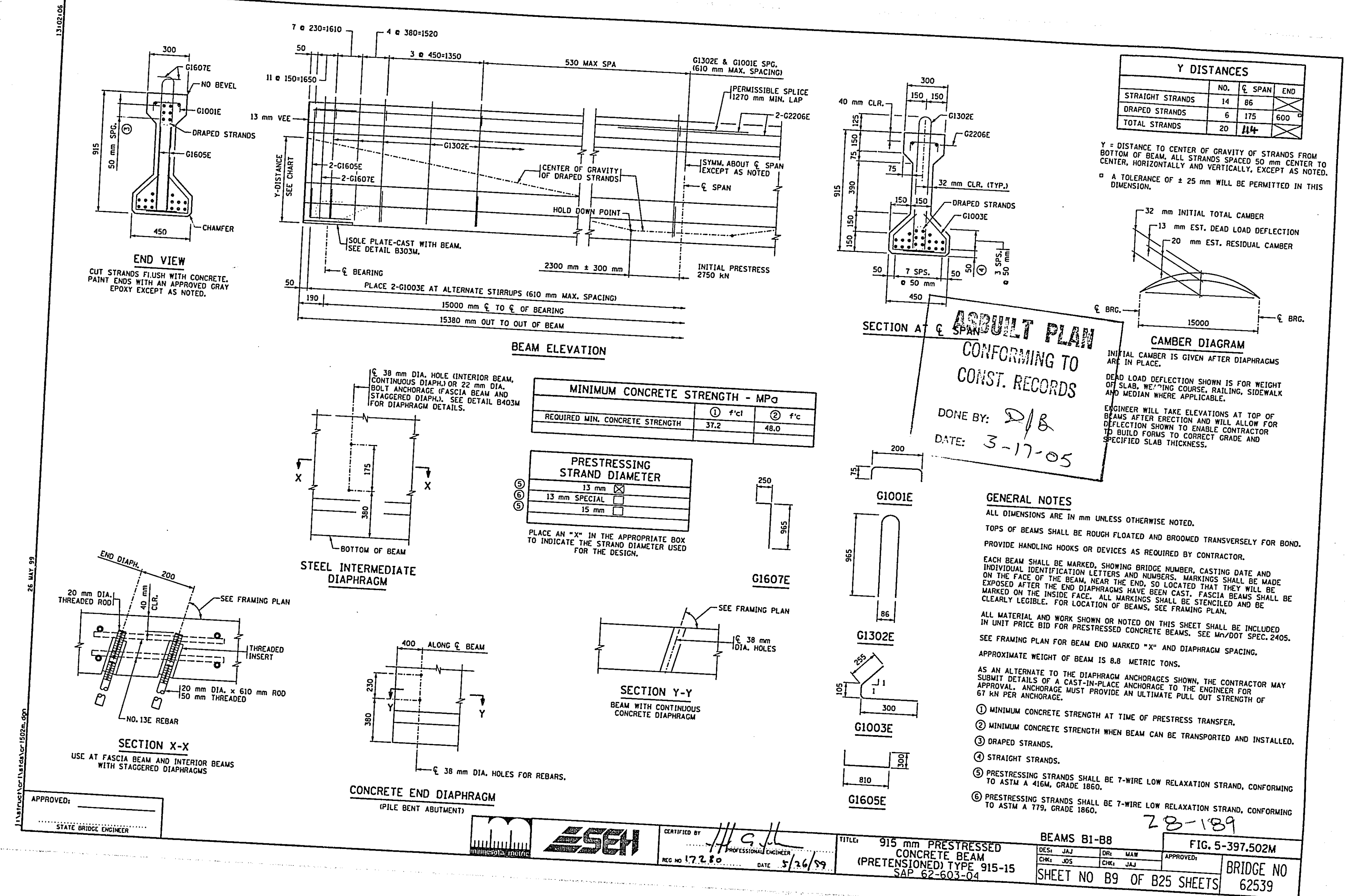
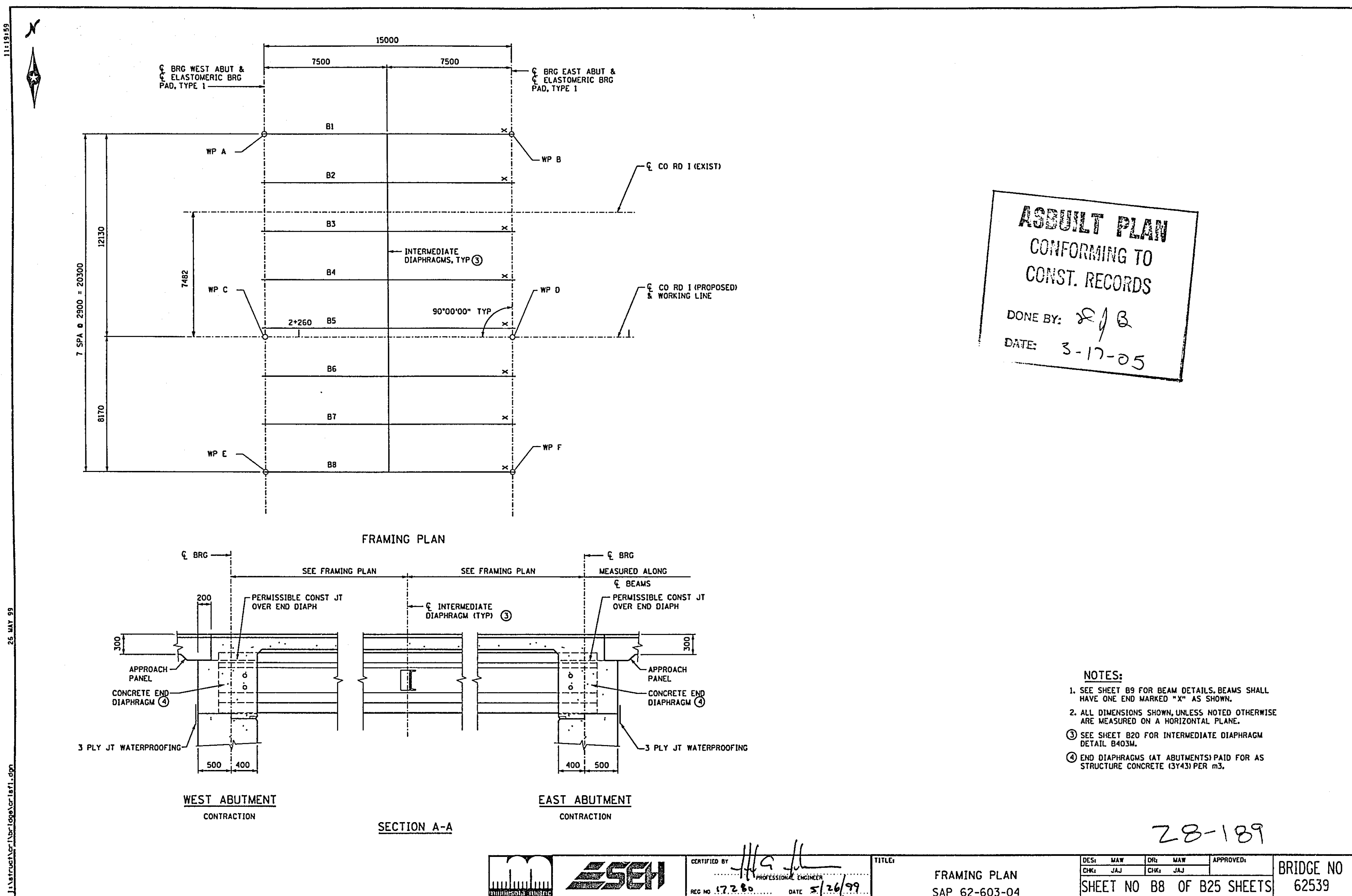
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REV. NO. DATE: / /
CERTIFIED BY *M. R. Jones* REG. NO. 18431 APR. 19 2000 STATE AID PROJ. 62-603-03 SHEET NO. 102D OF 102 SHEETS



REV. NO. DATE: / /
REV. NO. DATE: / /
CERTIFIED BY *M. R. Jones* REG. NO. 18431 APR. 19 2000 STATE AID PROJ. 62-603-03 SHEET NO. 102E OF 102 SHEETS



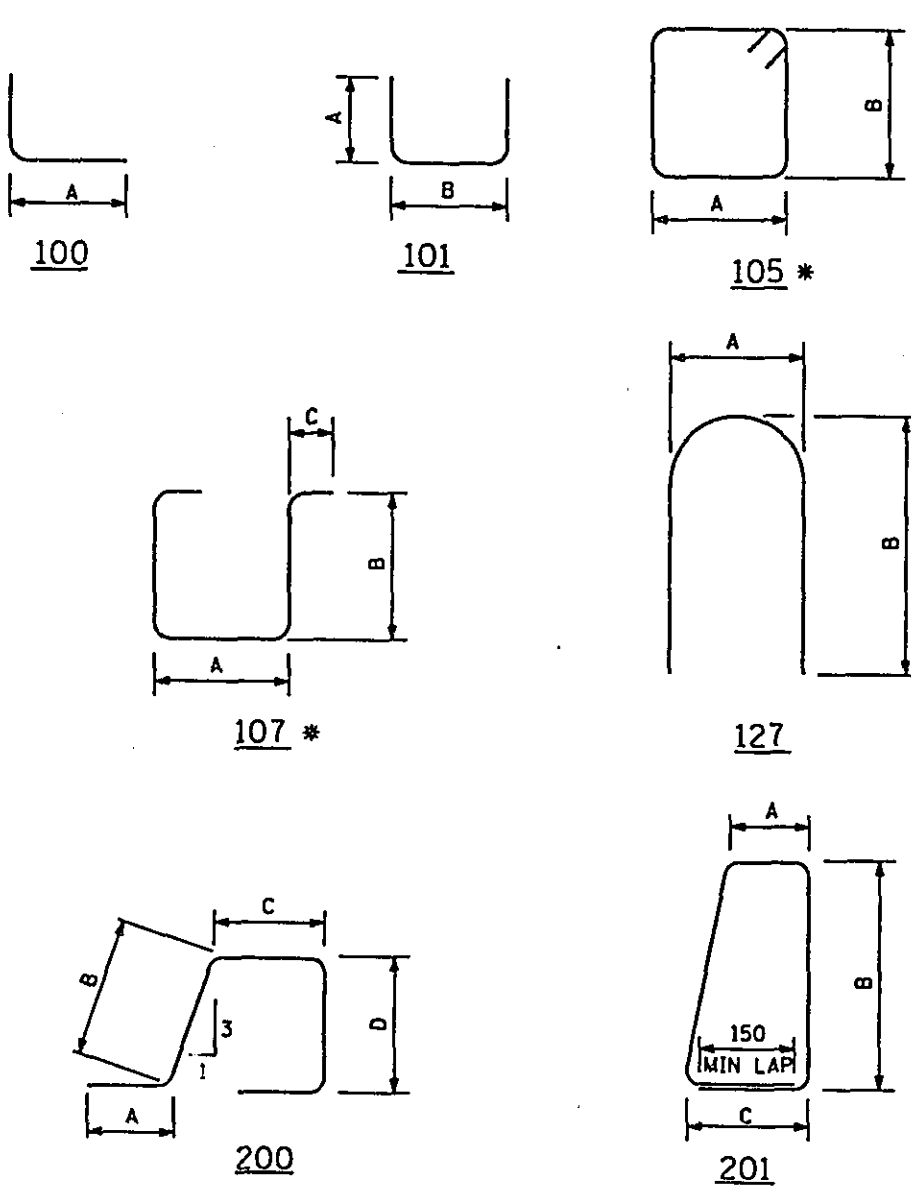




BAR MARK	NO. OF BARS	LENGTH	TYPE	DIMENSION				LOCATION
				A	B	C	D	
DECK								
EPOXY COATED BARS								
S1601E	124	12750	STR					TRANSV BOT
S1602E	124	9800	STR					TRANSV BOT
S1603E	124	14100	STR					TRANSV TOP
S1604E	124	8310	STR					TRANSV TOP
S1605E	97	15500	STR					LONGIT (BT)
S1606E	50	15500	STR					LONGIT (TT)
S1307E	4	900	100	450				SLAB CORNERS
S1608E	92	1200	101	450	300			END DIAPH
S1609E	92	3280	105	800	700	DIAPH		END DIAPH
S1610E	92	1850	101	625	600			END DIAPH
S1911E	20	11250	STR					END DIAPH
S1912E	56	2340	STR					END DIAPH
S1913E	28	1800	STR					END DIAPH
S1914E	32	1550	STR					THRU BEAMS
S1915E	16	500	STR					END DIAPH
S1916E	120	1200	STR					APPROACH PANEL
CONCRETE RAILING TYPE F								
EPOXY COATED BARS								
R1601E	136	1570	200	450	380	200	360	RAIL DML
R1602E	128	2030	201	140	760	215		RAIL VERT
R1603E	4	1840	201	145	660	215		RAIL VERT
R1604E	4	1880	201	150	680	215		RAIL VERT
R1305E	8	15500	STR					RAIL HORIZ (BT)
R1306E	24	5100	STR					RAIL HORIZ (TT)
R2207E	4	1970	127	900				GUARDRAIL CONN
MODIFIED PARAPET RAILING								
EPOXY COATED BARS								
F1601E	68	2270	107	190	810	300		RAIL DML
F1302E	18	5100	STR					RAIL HORIZ (BT)
F2207E	2	1970	127	900				GUARDRAIL CONN

29 JUL 93

BAR BENDING DIAGRAMS



* BAR TYPE USES STANDARD STIRRUP AND TIE HOOKS.

NOTE: BENT BAR DIMENSIONS GIVEN ARE OUT-TO-OUT. ACTUAL BAR LENGTHS SHALL BE DETERMINED BASED ON DIMENSIONS SHOWN IN THE BAR BENDING DIAGRAMS. TOTAL BAR LENGTHS SHOWN ARE FOR USE IN COMPUTING REINFORCEMENT BAR WEIGHTS FOR PAYMENT ONLY.

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *SLB*
DATE: 3-17-05

ITEM	UNIT	QUANTITY
1. STRUCTURE CONCRETE (3Y43)	m ³	38
2. BRIDGE SLAB CONCRETE (3Y43)	m ³	343
3. CONCRETE RAILING TYPE F (3Y46)	m	31
4. MOD PARAPET RAIL CONCRETE (3Y46)	m	16
5. REINFORCEMENT BARS (EPKOT COATED)	m ²	15370
6. CONCRETE OVERLAY TYPE 1 (3U17A)	m ²	474
7. ORNAMENTAL METAL RAILING	m	16
8. ELASTOMERIC BEARING PAD, TYPE 1	EACH	16
9. PRESTRESSED CONCRETE BEAMS 915M	m	123
10. DIAPHRAGMS FOR TYPE 315M PRESTRESSED BEAMS	m	20
11. BRIDGE NAME PLATE	EACH	1
12. PREFORMED JOINT FILLER	m	50
13. JLY JOINT WATERPROOFING	LS	1
14. CONDUIT SYSTEM (150NALS)		

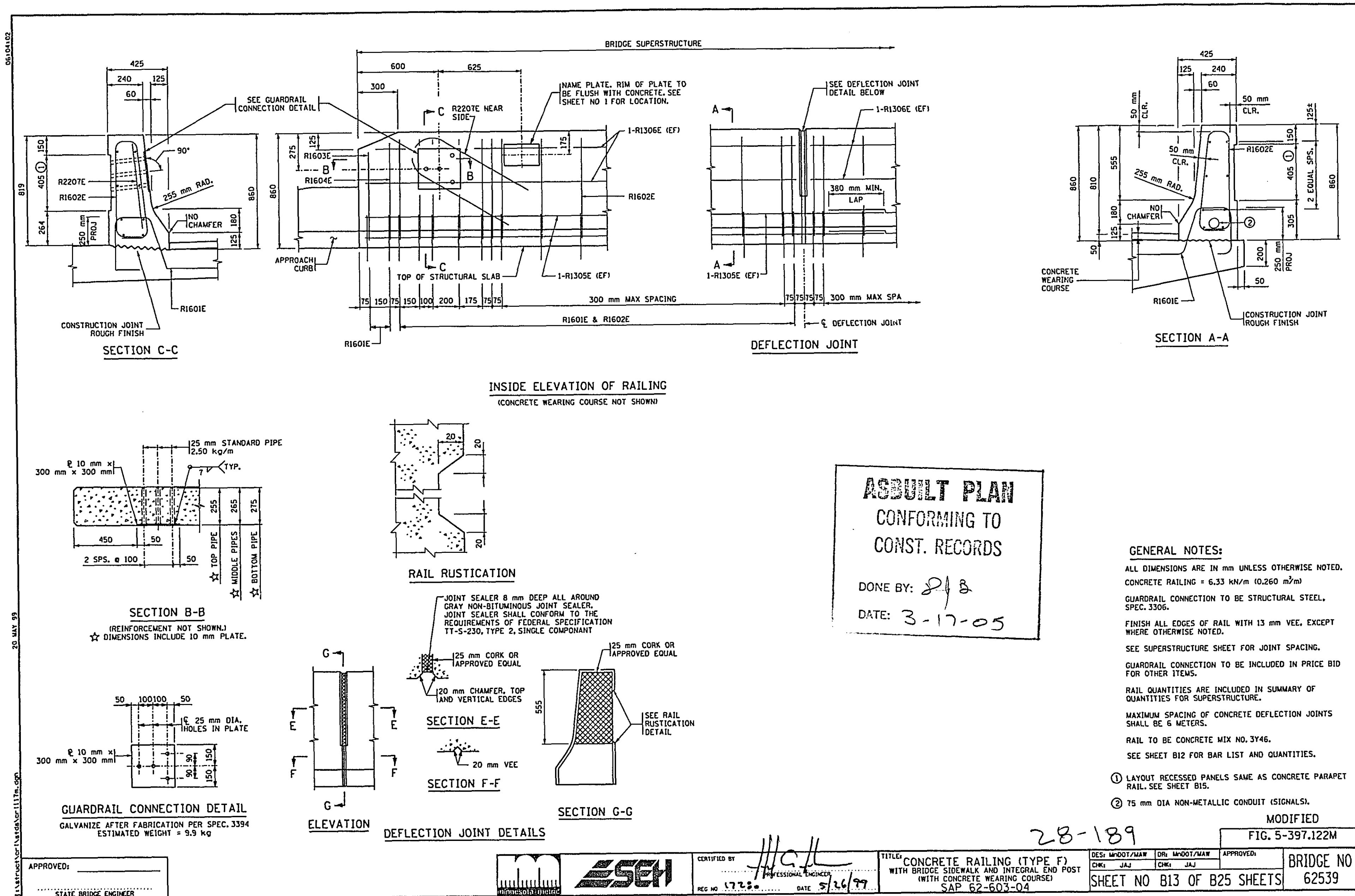
- INCLUDED IN PRICE BID FOR OTHER ITEMS.
- SEE JOINT FILLER TABLE.
- STATE WILL FURNISH DISK, BEND PRONGS OUTWARD TO ANCHOR DISK IN CONCRETE. BOTTOM OF DISK TOP TO BE PLACED FLUSH WITH CONCRETE.
- THE APPROXIMATE CONCRETE QUANTITIES ARE: BRIDGE SLAB CONCRETE BASED ON AVERAGE STOOD HEIGHT OF 50 mm m³
- CONCRETE OVERLAY 24 m³
- CONCRETE RAILING TYPE F (3Y46) APPROX VOLUME = 8 m³.
- MOD PARAPET RAIL CONCRETE (3Y46) = 3 m³.
- TABLE IS FOR CONTRACTORS CONVENIENCE ONLY. CUT TO FIT.
- INCLUDES 208 m² FOR BRIDGE APPROACH PANELS.
- END DIAPHRAGM CONCRETE ONLY.
- INTERMEDIATE DIAPHRAGMS ONLY.
- INCLUDES RAILING AND DECK REINFORCEMENT.
- ELASTOMERIC BEARING PAD, TYPE 1 SIZE 13 mm x 200 mm x 450 mm.
- INCLUDES 19 m of 75 mm DIA NON-METALLIC CONDUIT AND 2 END CAPS.

TYPE	NO	SIZE	LOCATION
CORK	4	25 x 325 x 530	TYPE F RAIL DEFL JOINTS
CORK	2	25 x 260 x 680	PARAPET RAILING DEFL JTS
FILLER	32	25 x 100 x 400	VERT ABUT SEATS
FILLER	14	25 x 60 x 500	VERT ABUT SEATS
CORK	4	13 x 600 x 1190	BTM SLAB & WING
BIT FELT	2	13 x 100 x 18400	ABUT SEATS
BIT FELT	16	19 x 300 x 450	ABUT SEATS

PREFORMED JOINT FILLER LIST

TYPE	NO	SIZE	LOCATION
CORK	4	25 x 325 x 530	TYPE F RAIL DEFL JOINTS
CORK	2	25 x 260 x 680	PARAPET RAILING DEFL JTS
FILLER	32	25 x 100 x 400	VERT ABUT SEATS
FILLER	14	25 x 60 x 500	VERT ABUT SEATS
CORK	4	13 x 600 x 1190	BTM SLAB & WING
BIT FELT	2	13 x 100 x 18400	ABUT SEATS
BIT FELT	16	19 x 300 x 450	ABUT SEATS

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SUPERSTRUCTURE BAR LIST & SUMMARY OF QUANTITIES
SAP 62-603-04
SHEET NO B12 OF B25 SHEETS
BRIDGE NO 62539

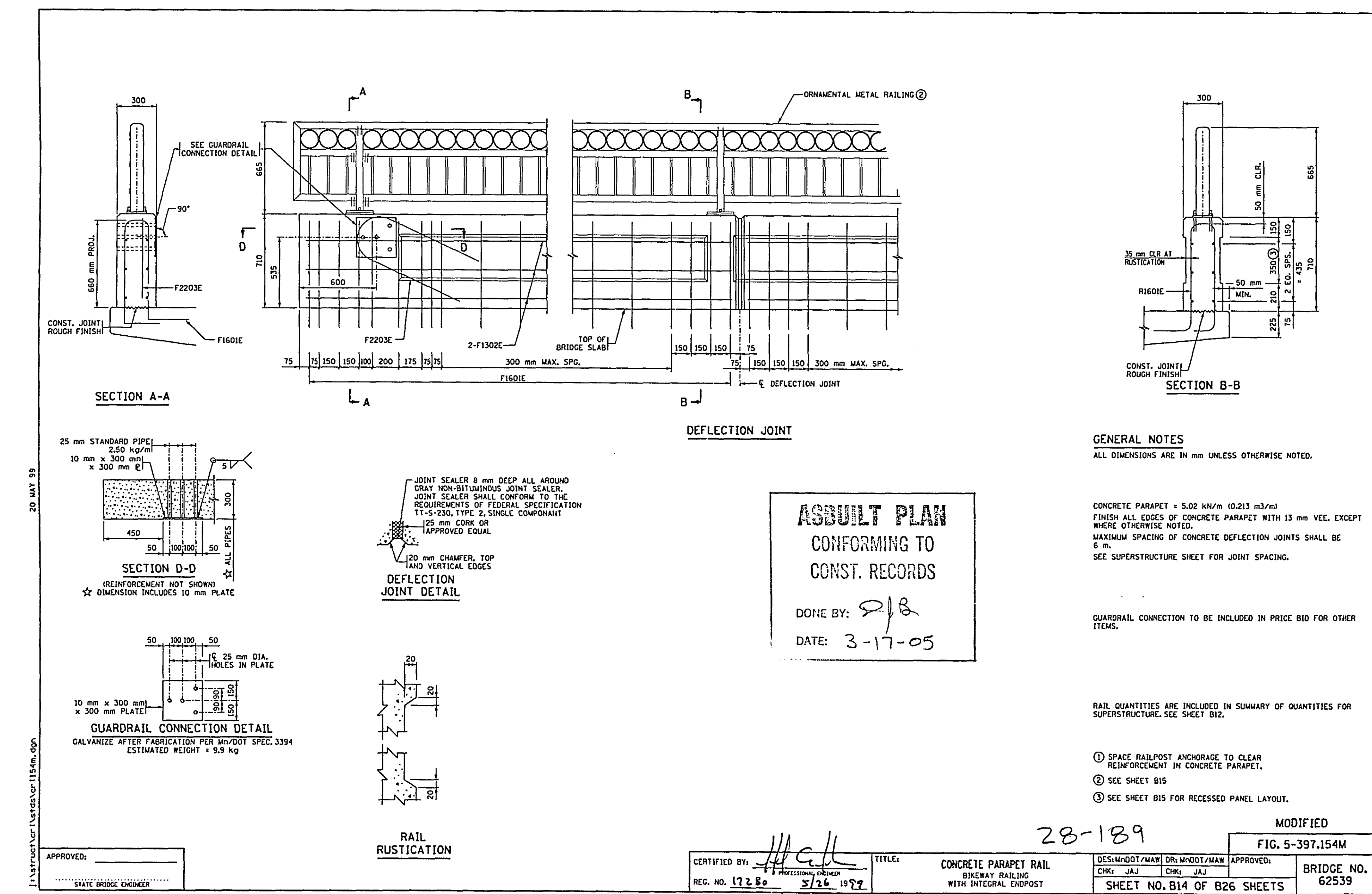


ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *SLB*
DATE: 3-17-05

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED. CONCRETE RAILING = 6.33 MWH 10.280 MWH
 - GUARDRAIL CONNECTION TO BE STRUCTURAL STEEL, SPEC. 3306.
 - FINISH ALL EDGES OF RAIL WITH 13 mm VEE, EXCEPT WHERE OTHERWISE NOTED.
 - SEE SUPERSTRUCTURE SHEET FOR JOINT SPACING.
 - GUARDRAIL CONNECTION TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.
 - RAIL QUANTITIES ARE INCLUDED IN SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE.
 - MAXIMUM SPACING OF CONCRETE DEFLECTION JOINTS SHALL BE 6 METERS.
 - RAIL TO BE CONCRETE MIX NO. 3Y46.
 - SEE SHEET B12 FOR BAR LIST AND QUANTITIES.
 - LAYOUT RECESSED PANELS SAME AS CONCRETE PARAPET RAIL. SEE SHEET B15.
 - 75 mm DIA NON-METALLIC CONDUIT (150NALS).

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FIG. 5-397.122M
BRIDGE NO 62539



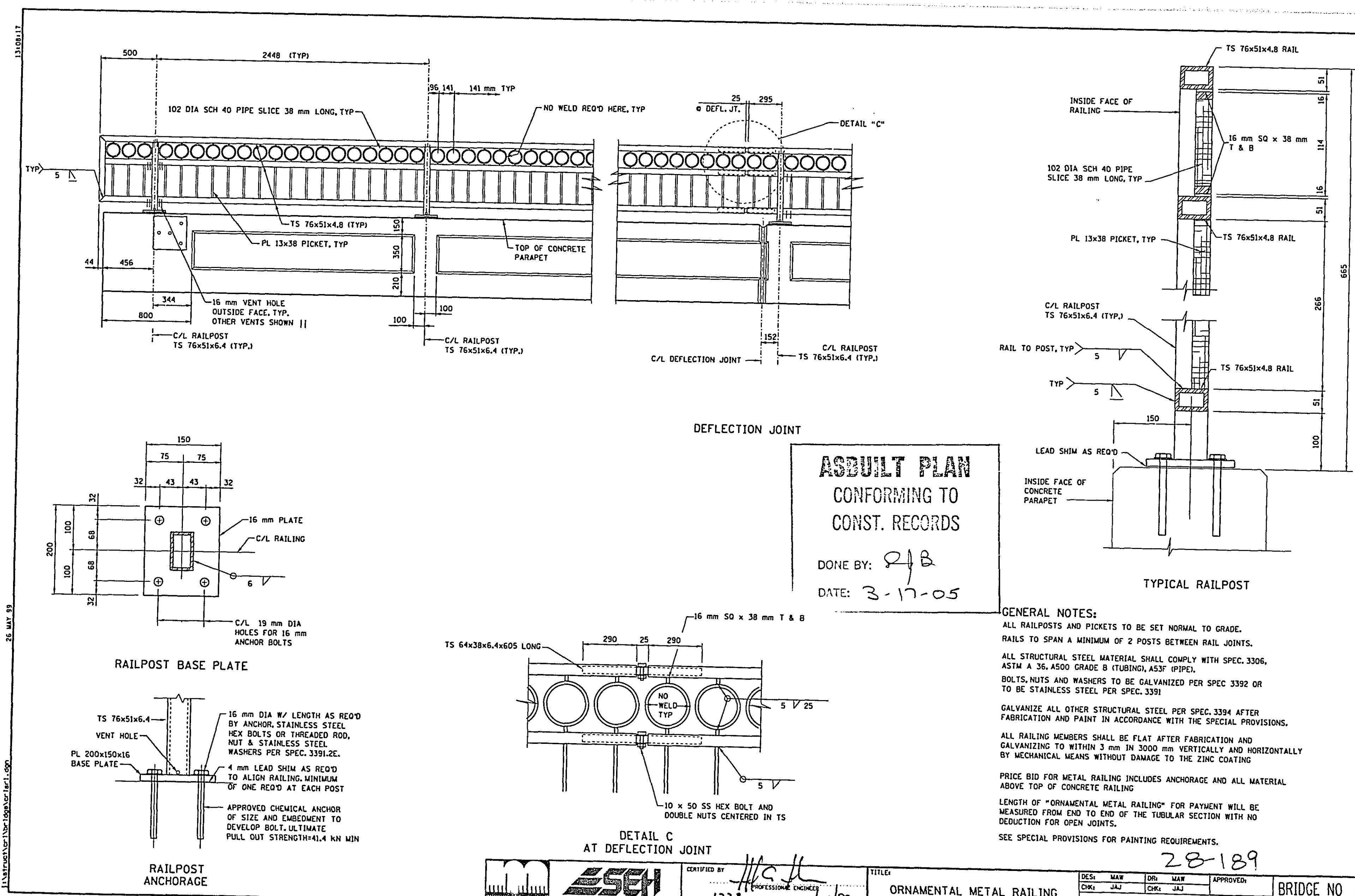
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY: *SLB*
DATE: 3-17-05

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
 - CONCRETE PARAPET = 5.02 MWH 10.213 MWH
 - FINISH ALL EDGES OF CONCRETE PARAPET WITH 13 mm VEE, EXCEPT WHERE OTHERWISE NOTED.
 - MAXIMUM SPACING OF CONCRETE DEFLECTION JOINTS SHALL BE 6 m.
 - SEE SUPERSTRUCTURE SHEET FOR JOINT SPACING.
 - GUARDRAIL CONNECTION TO BE INCLUDED IN PRICE BID FOR OTHER ITEMS.
 - RAIL QUANTITIES ARE INCLUDED IN SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE. SEE SHEET B12.
 - SPACE RAILPOST ANCHORAGE TO CLEAR REINFORCEMENT IN CONCRETE PARAPET.
 - SEE SHEET B15
 - SEE SHEET B15 FOR RECESSED PANEL LAYOUT.

- SPACE RAILPOST ANCHORAGE TO CLEAR REINFORCEMENT IN CONCRETE PARAPET.
- SEE SHEET B15
- SEE SHEET B15 FOR RECESSED PANEL LAYOUT.

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FIG. 5-397.154M
BRIDGE NO 62539



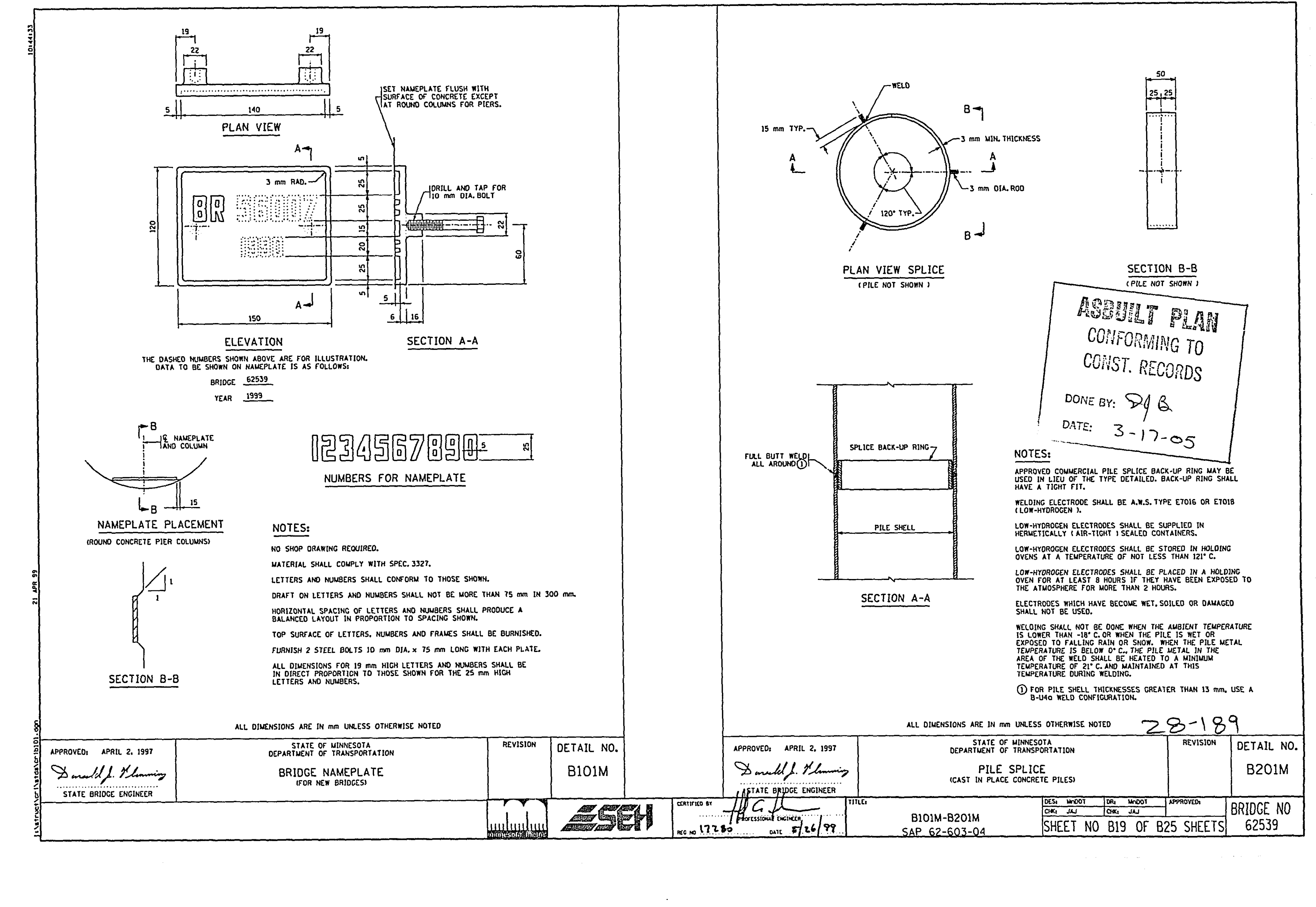
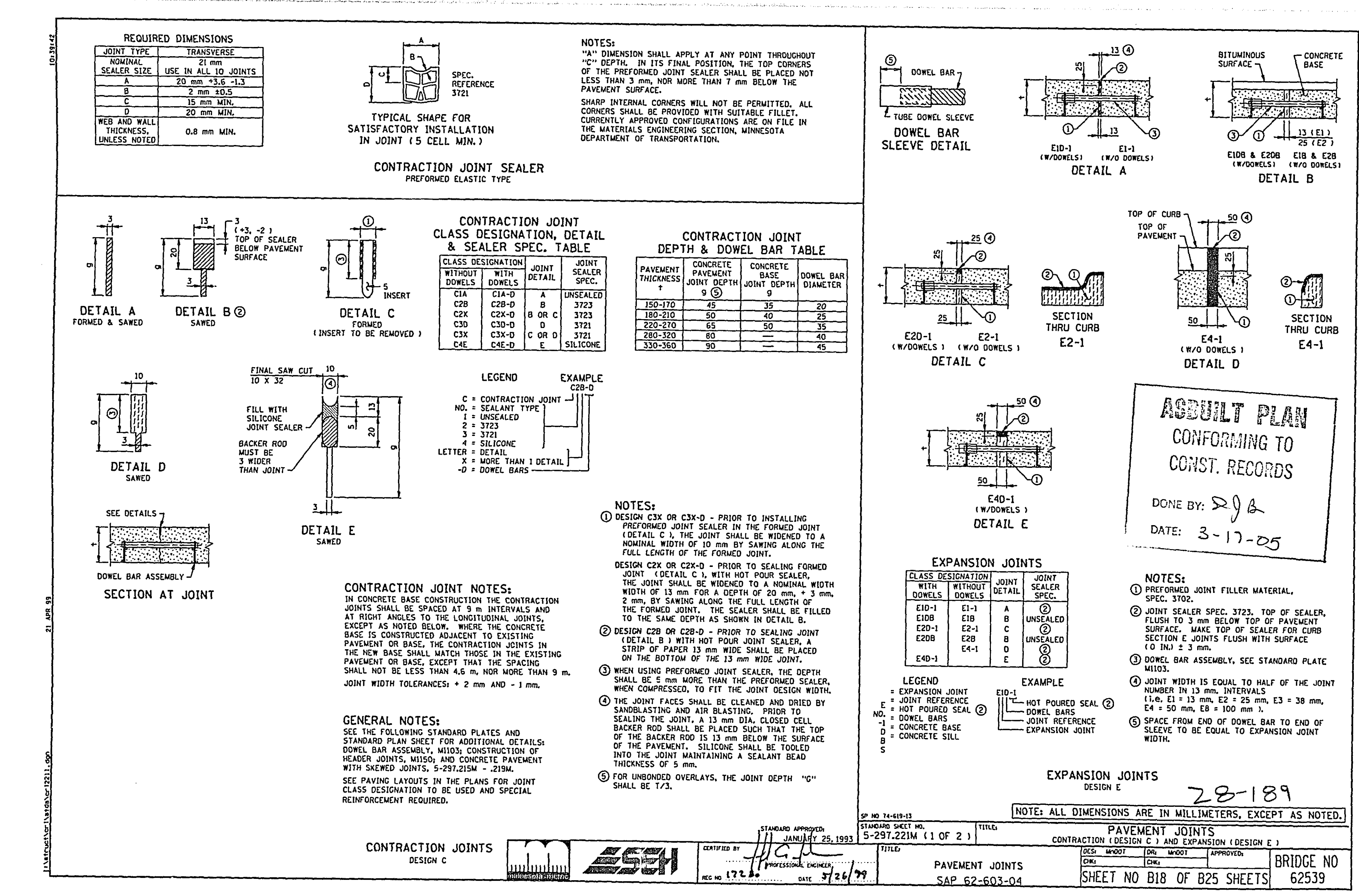
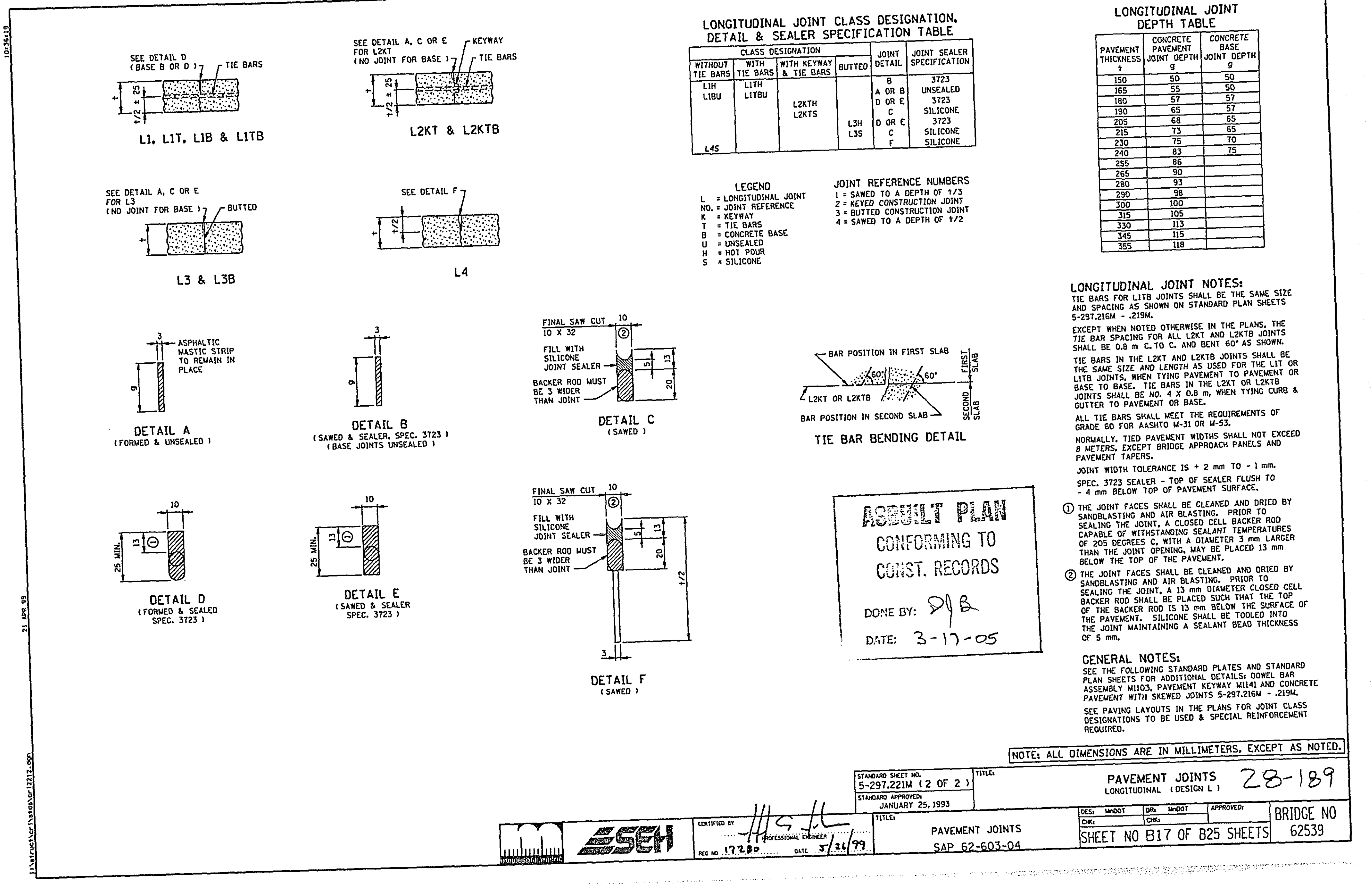
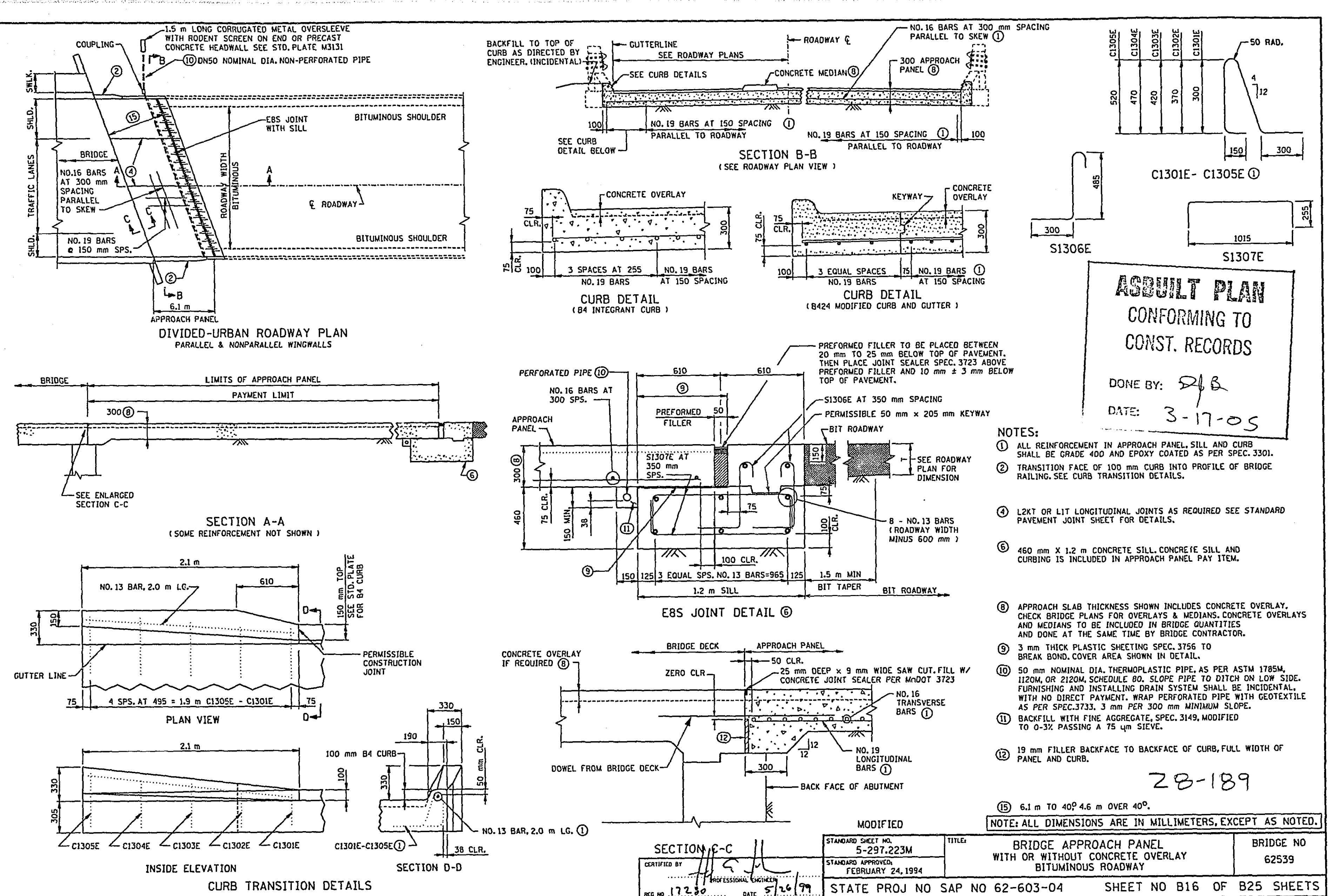
ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

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DATE: 3-17-05

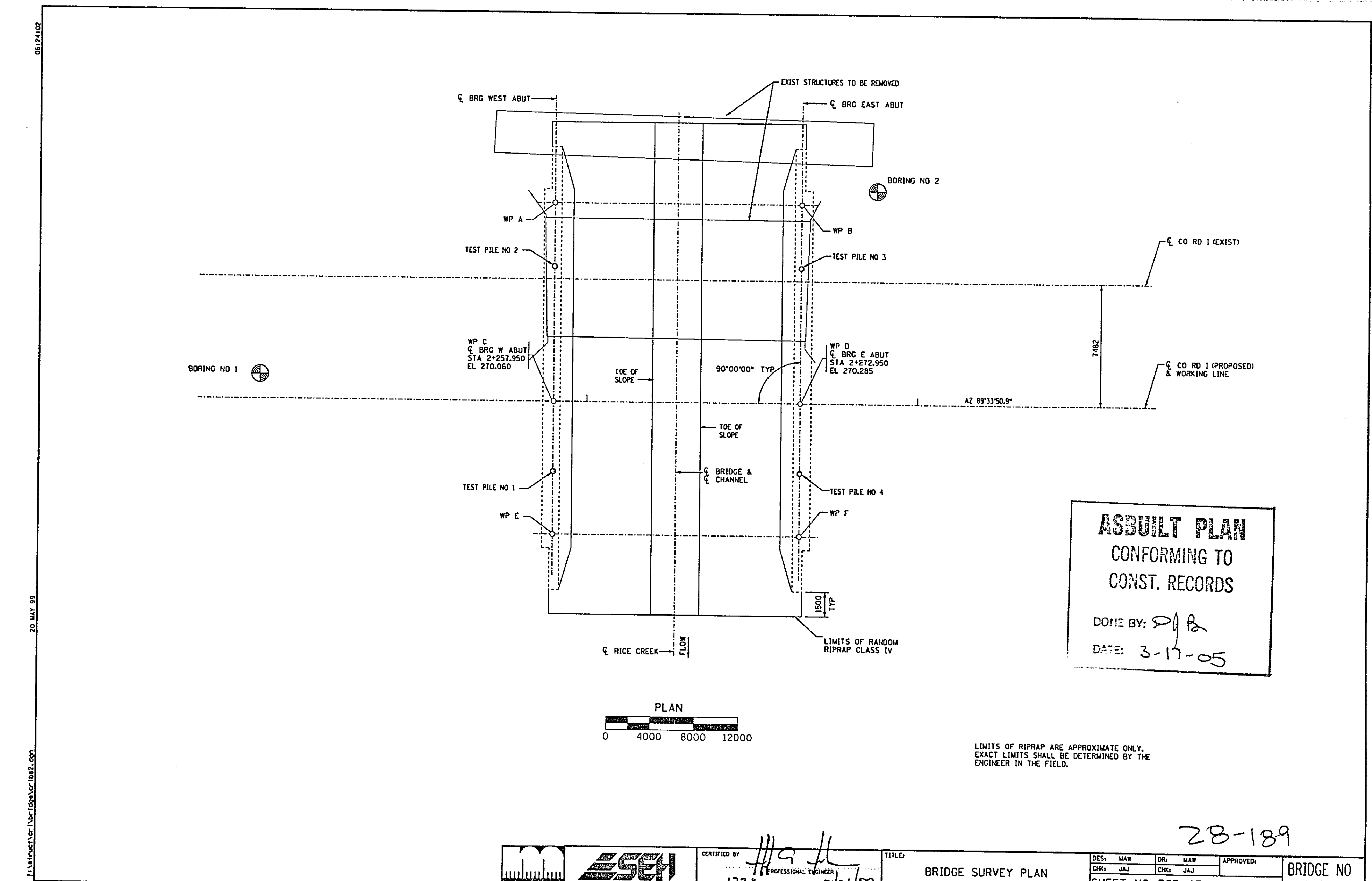
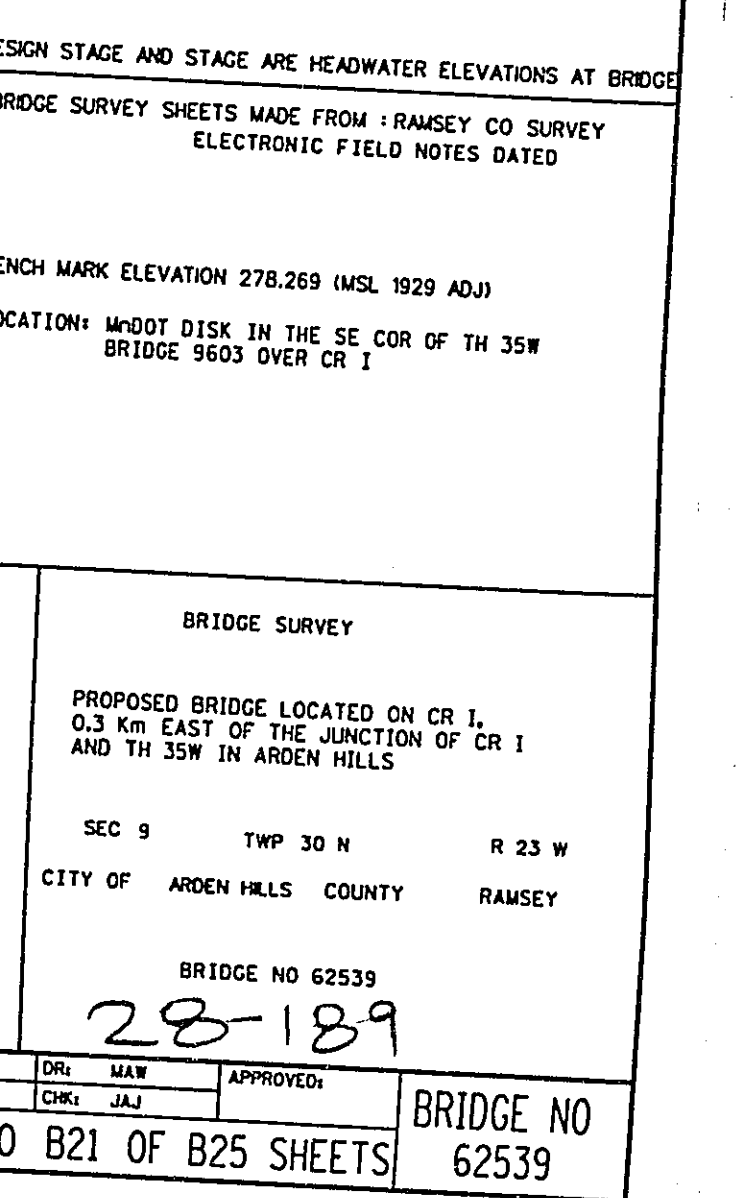
- GENERAL NOTES:
- ALL RAILPOSTS AND PICKETS TO BE SET NORMAL TO GRADE.
 - RAILS TO SPAN A MINIMUM OF 2 POSTS BETWEEN RAIL JOINTS.
 - ALL STRUCTURAL STEEL MATERIAL SHALL COMPLY WITH SPEC. 3306.
 - ASTM A 36-4500 GRADE B (TUBING, A537 (PIPE).
 - BOLTS, NUTS AND WASHERS TO BE GALVANIZED PER SPEC 3392 OR TO BE STAINLESS STEEL PER SPEC. 3391.
 - GALVANIZE ALL OTHER STRUCTURAL STEEL PER SPEC. 3394 AFTER FABRICATION AND PAINT IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 - ALL RAILING MEMBERS SHALL BE FLAT AFTER FABRICATION AND GALVANIZING TO WITHIN 3 mm IN 3000 mm VERTICALLY AND HORIZONTALLY BY MECHANICAL MEANS WITHOUT DAMAGE TO THE ZINC COATING.
 - PRICE BID FOR METAL RAILING INCLUDES ANCHORAGE AND ALL MATERIAL ABOVE TOP OF CONCRETE RAILING.
 - LENGTH OF "ORNAMENTAL METAL RAILING" FOR PAYMENT WILL BE MEASURED FROM END TO END OF THE TUBULAR SECTION WITH NO DEDUCTION FOR OPEN JOINTS.
 - SEE SPECIAL PROVISIONS FOR PAINTING REQUIREMENTS.

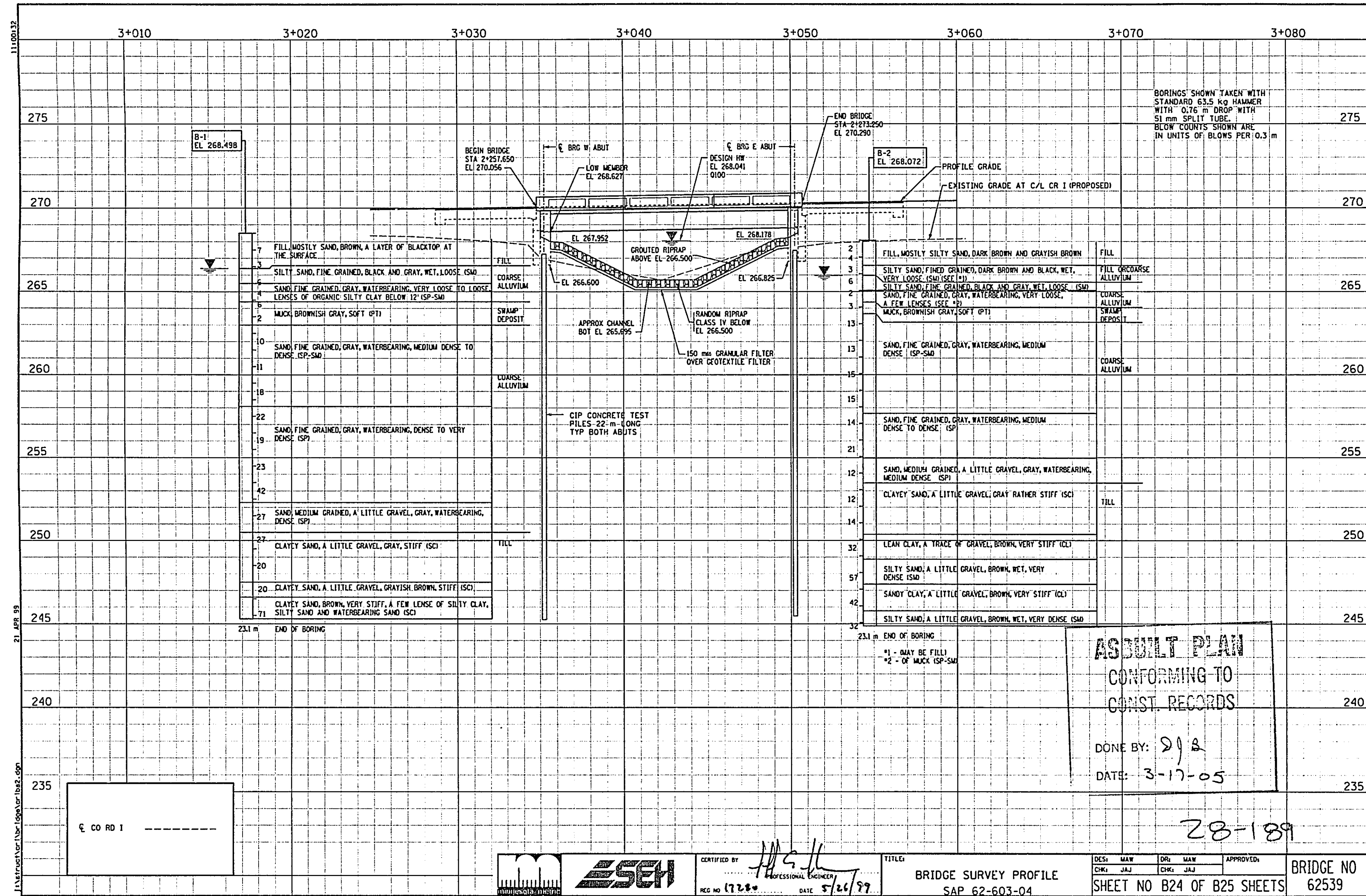
28-189
FIG. 5-397.154M
BRIDGE NO 62539

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
STANDARD SHEET NO. 5-297.221M (2 OF 2)
JANUARY 25, 1993
BRIDGE NO. 62539
SHEET NO. B17 OF B25 SHEETS



LOCATION ENGINEER'S OBSERVATIONS	
AT BRIDGE SITE	
1. SPECIAL FEATURES: WATER ALLOWING FLOODS, ICE, DEBRIS, SLIDING BANKS, RECREATIONAL, DRAINAGE, ETC.	
2. OTHER BRIDGES OR CULVERTS OVER THE SAME STREAM (APPROXIMATELY LOCATED) CARRY HIGHER WATER LEVELS WITHOUT OVERTFLOW OF ROADWAY (GIVEN LOCATION, TYPE, LENGTH, HEIGHT ABOVE HIGH WATER, CROSS-SECTIONAL AREA, ETC.)	
3. APPARENT HIGHWATER ELEVATION OBTAINED FROM:	
4. OTHER DATA: APPROX. VELOCITY OF WATER AT TIME OF SURVEY.	
HYDRAULIC RECOMMENDATIONS	
STREAM	DATE
FLOOD OF RECORD (LENGTH)	11-10-58
DESIGN FLOOD (LENGTH, VELOCITY, ELEVATION)	m ³ /s
DESIGN FLOOD YEAR (FREQUENCY)	25.0
DESIGN STAGE	28.041
TOTAL STAGE INCREASE	0
DESIGN HEAD VELOCITY THROUGH STRUCTURE	m/s
LOW MEMBER AT OR ABOVE ELEVATION	25.027
MIN. WATERWAY AREA REQUIRED BELOW	
EL. 28.041 AT RIGHT ANGLE TO CHANNEL	35.9
BASIC FLOOD (100 YEAR FREQUENCY)	25.0
STAGE	28.041
TOTAL STAGE INCREASE	28.041
MIN. VELOCITY THROUGH STRUCTURE	1.3
APPROX. FLOOD EL. 26.695 SHW ANGLE 0°	DEQ.
ESTIMATED POWER SOUR. EL. 100 YR. FREQUENCY	
N/A	



[illegible]