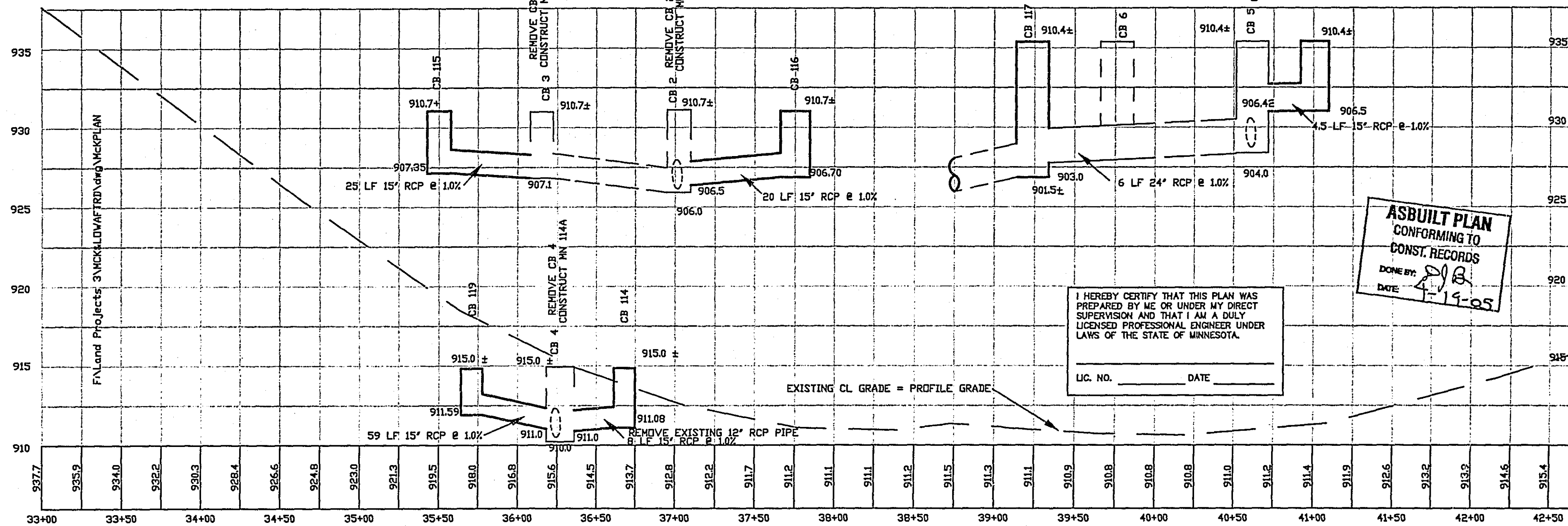
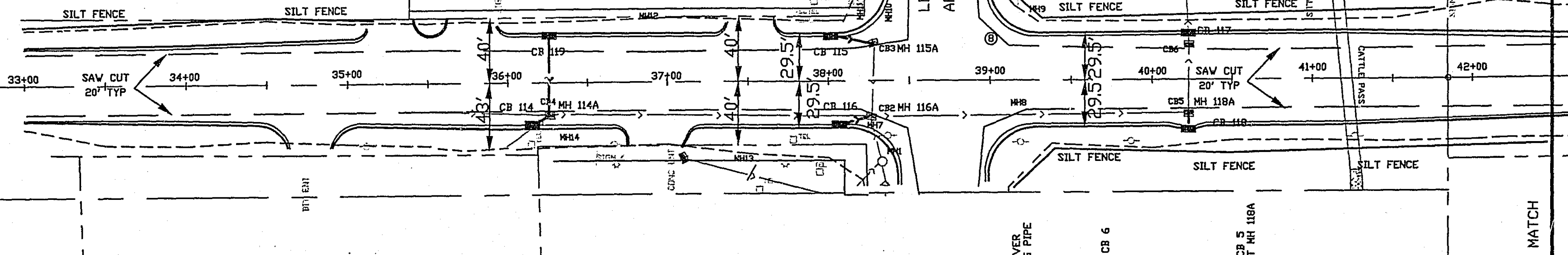
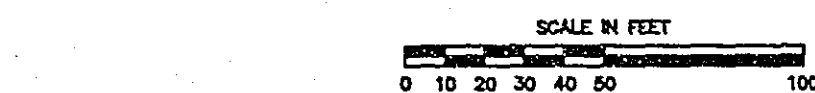


McKNIGHT ROAD 5/17/04

5/17/04

EXCAVATE EXISTING SUMP 3' BELOW PIPE INVERT
AND RIP RAP
STABILIZE THE EXISTING APRON WITH RIP RAP



I HEREBY CERTIFY THAT THIS PLAN WAS
PREPARED BY ME OR UNDER MY DIRECT
SUPERVISION AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER
LAWS OF THE STATE OF MINNESOTA.

LC. NO.	DATE
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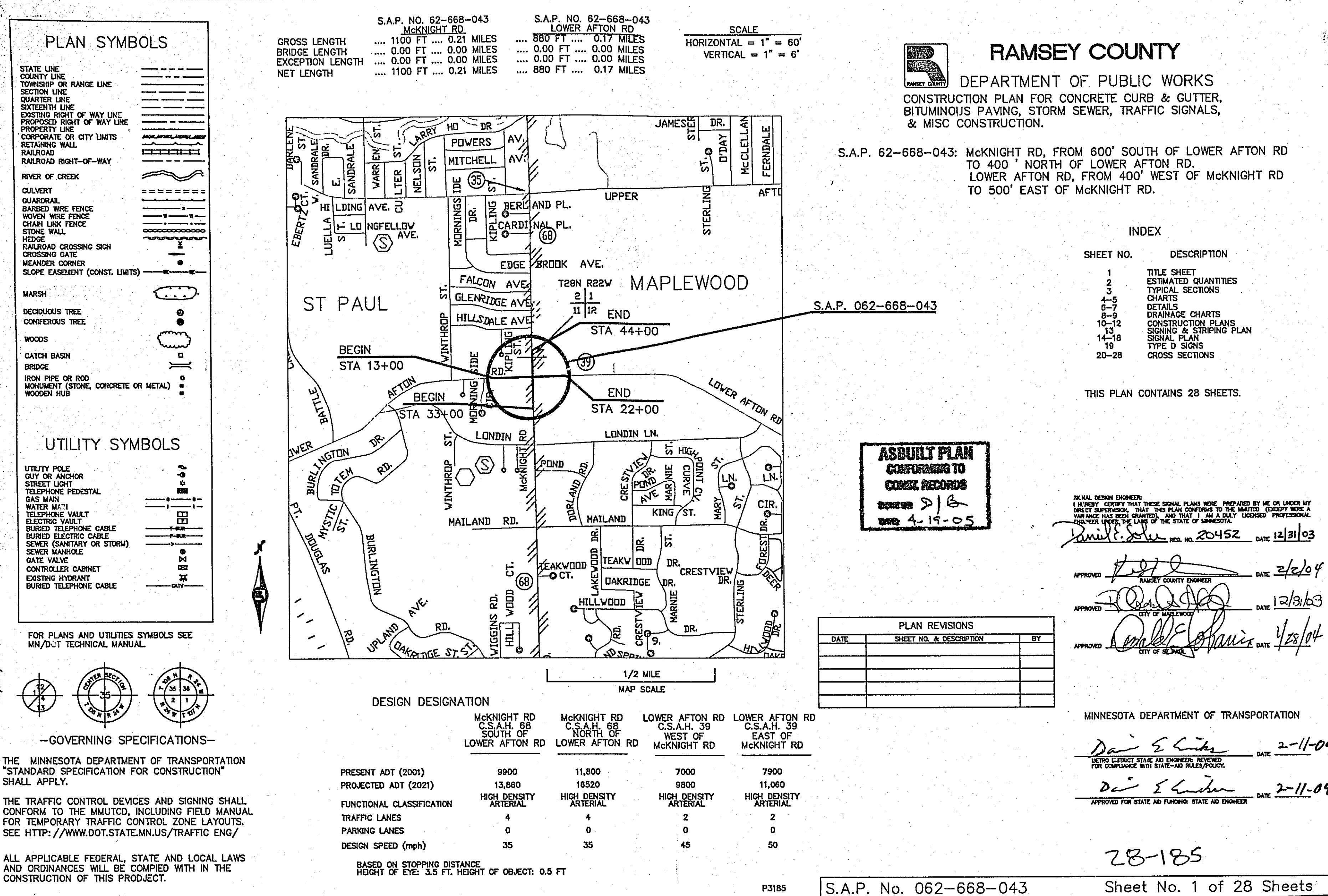
**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY: 413
DATE: 4-19-85

S.A.P. 62-668-043

SHEET 1 OF 2 SHEETS

28-185



WATER, GAS, ELECTRIC, TELEPHONE, SEWER, AND TV, CABLE LINES
ACROSS THE DRAWINGS AND CROSS-SECTIONS ARE PLOTTED FROM THE
BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL PREPARE, BUT NOT
MAY NOT REFLECT ACTUAL LOCATIONS OR ELEVATIONS. THE CONTRACTOR
SHALL VERIFY LOCATION OF ALL UTILITIES BEFORE BEGINNING
CONSTRUCTION. MUCH AS THE CONTRACTOR SHALL BE RESPONSIBLE, THE CONTRACTOR
SHALL LOCATE AND MARK 48 HOURS NOTICE TO THE OWNERS OF ALL KNOWN
UTILITIES. ANY LOCATIONS OF ANY UTILITIES AFFECTING THOSE
PROPERTIES, OR BEGINNING OF THE MONTH OF THOSE
PROPERTIES. THE CONTRACTORS ATTENTION IS DIRECTED TO SECTION
100.00 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

UTILITY COMPANIES WILL RELOCATE THEIR FACILITIES CONCURRENTLY WITH
THE CONSTRUCTION OPERATIONS UNDER THIS CONTRACT. CONTRACTOR SHALL
COORDINATE WITH THE UTILITIES WITH UTILITY RELOCATION.

PROVIDE FOR REMOVAL AND DISPOSAL (OUTSIDE THE CONSTRUCTION ZONE)
OF ALL IN-PACE STRUCTURES THAT WILL INTERFERE WITH CONSTRUCTION.
DISPOSAL OF ITEMS REMOVED UNDER THIS CONTRACT SHALL BE IN
ACCORDANCE WITH THE REQUIREMENTS OF 2105.303 AND 2105.303.

EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF
IN ACCORDANCE WITH THE REQUIREMENTS OF 2104.303 AND 2105.303.

SOODING QUANTITIES ALONG ROADWAY SHOULD BE BASED ON SOODING
LINES AND BE BACK OF THE CONSTRUCTION LINES.

COMPACTED IN GRADING ITEMS SHALL BE COMPLETED IN ACCORDANCE
WITH SPEC. 2103.32 "QUALITY COMPACTION METHOD".

WHEN EXCAVATING SUBJECT TO INPLACE PAVEMENT, NO MATERIAL SHALL
BE REMOVED FROM INSIDE AN APPROXIMATE 21" SLOPED LINE DRAWN
OUTSIDE THE EXCAVATION FROM THE EXISTING PAVEMENT SURFACE.

WHEN CONNECTION TO EXISTING UTILITIES PAYMENT IS REQUIRED, THE
EDGE OF EXISTING PAVEMENT SHALL BE CUT TO A HEAT LINE PRIOR TO
CONSTRUCTION OF ASPHALT SURFACING.

STABILIZING AGGREGATE SHALL BE USED WHEN NECESSARY TO ACHIEVE
SATISFACTORY SURFACE STABILITY AS DETERMINED BY THE ENGINEER.
THE MATERIAL SHALL SATISFY THE REQUIREMENTS OF SECTION 3146.20
AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 2105.30 OF
THE STANDARD SPECIFICATIONS.

USE TACK COAT BETWEEN ALL BITUMINOUS LIFTS.

STATEMENT OF ESTIMATED QUANTITIES				PARTICIPATION		
CHART	NOTE	ITEM NO.	ITEM	UNIT	TOTAL ESTIMATED QUANTITY	
						RAMSEY COUNTY CITY-ST PAUL CITY-WAPLEWOOD
		2021.501	MOBILIZATION	LUMP SUM	1	
A		2101.502	CLEARING	EACH	10	
A		2101.507	CRUISING	EACH	12	
		2102.502	PAYMENT MARKING REMOVAL	L.F.	500	
D		2104.501	REMOVE RCP PIPE SEWER	L.F.	120	
D		2104.501	REMOVE CMP PIPE SEWER	L.F.	60	
B		2104.501	REMOVE CURB & GUTTER	L.F.	260	
B		2104.501	REMOVE BITUMINOUS CURB	L.F.	2375	
C		2104.503	REMOVE CONCRETE SIDEWALK	S.F.	5000	
B		2104.505	REMOVE CONCRETE PAVEMENT	S.Y.	179	
B		2104.505	REMOVE BITUMINOUS PAVEMENT	S.Y.	1513	
H		2104.505	REMOVE MH OR CATCH BASIN	E	6	
E, 1.		2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	L.F.	4010	
H		2104.523	SALVAGE CASTING	EACH	5	
		2104.523	SALVAGE SIGNS	EACH	25	
		2105.501	COMMON EXCAVATION (P)	C.Y.	3277	
		2105.522	SELECT GRANULAR BORROW (LV)	C.Y.	3960	
		2105.523	COMMON BORROW (LV)	C.Y.	915	
		2105.528	SELECT TOPSOIL BORROW (LV)	C.Y.	510	
2.		2131.501	WALD	(1000) GAL	100	
K, 3.		2211.503	AGGREGATE BASE, CLASS 7 (GV)	C.Y.	750	
B		2232.501	MILL BITUMINOUS SURFACE, 3" DEPTH	S.Y.	9050	
K, 4.		2350.501	TYPE MVS WEARING COURSE MIXTURE E	TON	1160	
K, 4.		2350.502	TYPE MVS NON WEARING COURSE MIXTURE E	TON	1160	
K, 4.		2350.502	TYPE MVS NON WEARING COURSE MIXTURE G	TON	510	
		2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	600	
F		2501.515	15" RC PIPE APRON	EACH	2	
		2502.502	SAFETY GRATE FOR 15" RC PIPE APRON	EACH	2	
		2502.541	4" PERFORATED P.E. PIPE DRAIN	L.F.	300	
F		2503.541	15" RC PIPE SEWER, DES 3008 CL V	L.F.	628	
		2503.541	24" RC PIPE SEWER, DES 3008 CL V	L.F.	6	
		2504.602	RELOCATE HYDRANT	EACH	1	
		2504.602	ADJUST VALVE BOX	EACH	3	
F		2506.502	CONSTRUCT DRAINAGE STRUCTURE, DES. A OR F	EACH	4	
F		2506.502	CONSTRUCT DRAINAGE STRUCTURE, DES. C OR G	EACH	18	
		2506.503	CONSTRUCT MANHOLE	L.F.	19.6	
H		2506.518	CASTING ASSEMBLY	EACH	3	
H		2506.522	ADJUST FRAME AND RING CASTING	EACH	8	
G		2511.501	RANDOM RIPRAP CLASS IV	C.Y.	31	
		2521.501	4" CONCRETE SIDEWALK	S.F.	4925	
		2531.501	4" CONCRETE SIDEWALK (EXPOSED AGGREGATE)	S.F.	1038	
		2531.501	CONCRETE CURB & GUTTER DES. B624	L.F.	3345	
6.		2531.502	8" CONCRETE DRIVEWAY PAVEMENT	S.Y.	160	
5.		2531.602	CONCRETE PEDESTRIAN RAMP	EACH	10	
5.		2531.602	CONCRETE PEDESTRIAN RAMP (SPECIAL)	EACH	4	
		2540.602	CONSTRUCT SURVEY MONUMENT	EACH	1	
		2550.501	VIDEO DETECTION SYSTEM	LUMP SUM	1	
		2553.601	TRAFFIC CONTROL	LUMP SUM	1	
N		2554.531	SIGN PANELS TYPE C	S.F.	76	
		2554.531	SIGN PANELS TYPE D	S.F.	8	
		2554.602	PAYMENT MESSAGE (LEFT ARROW) POLY PREF	EACH	8	
		2554.602	PAYMENT MESSAGE (RIGHT ARROW) POLY PREF	EACH	1	
		2554.603	4" SOLID LINE WHITE-EPOXY	L.F.	1120	
		2554.603	4" BROKEN LINE WHITE-EPOXY	L.F.	700	
		2554.603	4" DOUBLE SOLID LINE YELLOW-EPOXY	L.F.	1750	
		2554.603	24" SOLID LINE YELLOW-EPOXY	L.F.	150	
		2554.618	ZEBRA CROSSWALK WH" POLY PRE	S.F.	540	
L		2573.602	SILT FENCE, TYPE HEAVY DUTY	L.F.	1750	
		2575.505	SODDING, TYPE LAWN	S.Y.	4460	

EXCESS COMMON EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE COST FOR DISPOSAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND NO ADDITIONAL COMPENSATION WILL BE PAID OUTSIDE THE PRICE BID FOR COMMON EXCAVATION.

1. SAWCUT SHALL BE FULL DEPTH
2. FOR DUST CONTROL
3. INCLUDES 200 CUBIC YARDS FOR SIDEWALKS, ENT'S & PATH
4. INCLUDES 80 TONS FOR ENT'S & PATH
5. ALL PEDESTRIAN RAMPS SHALL HAVE A 2'x4' TRUNCATED DOME AREA
6. INCLUDES 24 S.Y. FOR BUS SELTER PADS.

2211.503	-	AGGREGATE BASE - 3780 lbs PER CU. YD
2350.609	-	BITUMINOUS MIXTURES - 110 LBS PER 1" THICKNESS PER SQ. YD.
2357.502	-	BITUMINOUS MATERIAL FOR TACK COAT ESTIMATED AT 0.05 GAL. PER SQ. YD. PER APPLICATION
2575.532	-	FERTILIZER 250 lbs PER ACRE

**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**
DONE BY: *D/B*
DATE: *4-17-05*

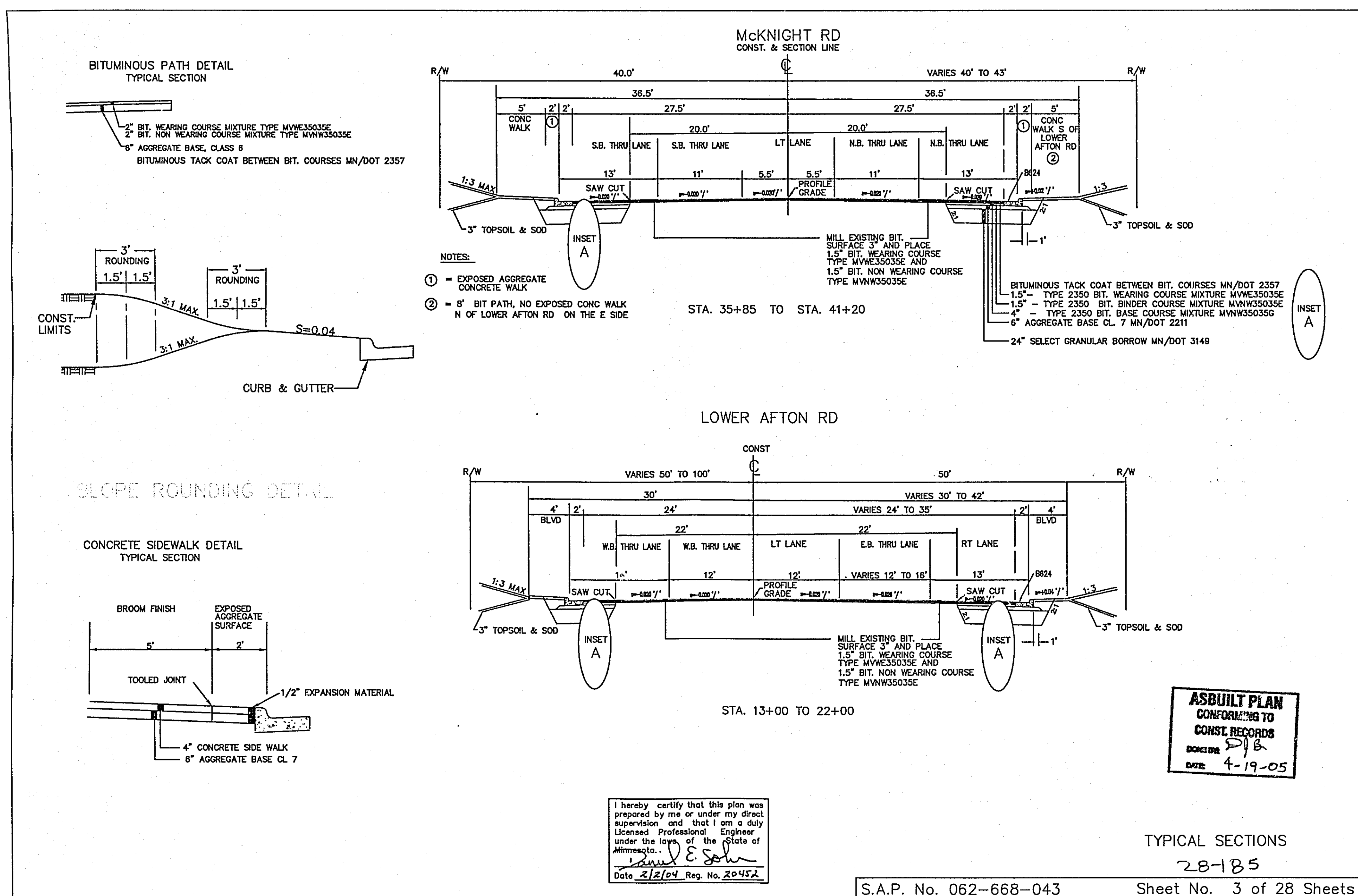
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

John F. Schmitt

Date 7/2/04 Reg. No. 2043

ESTIMATED QUANTITIES

S.A.P. No. 062-668-043 Sheet No. 2 of 28 Sheet



THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT
--

PLATE NO.	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE
3000G	GASKET JOINT FOR R.C. PIPE
40001	MANHOLE OR CATCH BASIN (DESIGN A)
40002	MANHOLE OR CATCH BASIN (DESIGN B)
40005	MANHOLE OR CATCH BASIN (DESIGN C)
40006	MANHOLE OR CATCH BASIN (DESIGN D)
40007	MANHOLE OR CATCH BASIN (DESIGN E)
41290	CATCH BASIN FRAME CASTING
41518	GRATE CASTING FOR CATCH BASIN
70000	CURB BUILT UP FOR CATCH BASIN
70335	CONCRETE WALK & CURB RETURNS AT ENTRANCES
70366	PEDESTIAN CURB RAMP
70367	PEDESTIAN CURB RAMP
71111	INSTALLATION OF CATCH BASIN CASTINGS
80000	STANDARD BARRICADE
81100	TRAFFIC SIGNAL LIGHT MOUNTING (POLE MOUNTED)
81144	P.V.C. MANHOLE / PULLBOX
81150	PEDESTALAN PUSH BUTTON INSTALLATION
81200	POLE FOR TRAFFIC SIGNAL LIGHT
81210	TRANSFORMER BASE WITH POLE BASE PLATE
81235	POLE AND MAST ARM (LUNIMARE AND TRAFFIC LIGHTS)
81242	MAST ARM SIGNAL HEAD MOUNTS
81268	POLE FOUNDATION (PAPO AND PAT00)
81270	RAW CUT

* STANDARD PLATES APPLICABLE TO THIS PROJECT

CHART NO	DESCRIPTION	SHEET NO
A	CLEAR & GRUB	5
B	MISC REMOVALS	5
C	REMOVE CONC SIDEWALK	5
D	REMOVE STORM SEWER PIPE	5
E	SAW BIT PAVEMENT	5
F	PROPOSED STORM SEWER	9
G	RIP RAP	9
H	EXISTING STORM SEWER	8
I	TYPE D SIGNS	19
J	ALIGNMENT	4
K	AGC & BIT SUMMARY	5
L	SILT FENCE	5
M	TYPE "C" SIGNS	13

ALIGNMENT			
ALIGNMENT	STATION	NORTHING	EASTING
WCKNIGHT RD	10+00	151958.28	597328.15
WCKNIGHT RD	174+04.18 P.I.	151956.25	598032.30
WCKNIGHT RD	23+16.10	151972.81	598644.07
LOWER AFTON RD	30+00	151083.48	598036.63
LOWER AFTON RD	(MON) 41+84.68 P.I.	152268.15	598030.78
LOWER AFTON RD	51+45.27	153228.66	598018.42

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Samuel E. Sch

Date 2/2/04 Reg. No. 20452

CHARTS & STANDARD PLATES:
28-185

S.A.P. No. 062-668-043 Sheet No. 4 of 28 Sheets

CHART A

CLEARING AND GRUBBING						
ALIGNMENT	STATION	LOCATION RT/LT	SIZE	TYPE	CLEAR	GRUB
MCKNIGHT RD	37+00	LT 37'		STUMP	EACH	
MCKNIGHT RD	37+55	RT 36'	5"	CONIFEROUS	1	1
MCKNIGHT RD	37+65	RT 40'			1	1
MCKNIGHT RD	37+80	RT 40'	5"	CONIFEROUS	1	1
MCKNIGHT RD	37+90	RT 40'	5"	CONIFEROUS	1	1
LOWER AFTON RD	13+80 to 15+50	WOODED AREA LT	VARIES	DECIDUOUS	6	6
LOWER AFTON RD	16+25	RT 50		STUMP		1
PROJECT TOTAL					10	12

CHART B

MISCELLANEOUS REMOVALS						
ALIGNMENT	STA. - STA	LOCATION RT/LT	BITUMINOUS PAVEMENT	MILL BIT SURFACE	REMOVE CONCRETE C & G	BIT CURB
MCKNIGHT RD	38+40	LT			20	
MCKNIGHT RD	38+40	RT			20	
MCKNIGHT RD	39+40	LT			20	
MCKNIGHT RD	39+40	RT			20	
MCKNIGHT RD	33+00 - 44+00	LT & RT	489	4900	100	2050
MCKNIGHT RD	ENTRANCES	RT	161			179
MCKNIGHT RD	BUS STOP 39+50	RT				12
LOWER AFTON RD	17+25 - 18+25	LT			100	
LOWER AFTON RD	13+00 - 22+00	LT & RT	755	4150		325
LOWER AFTON RD	ENTRANCES	LT & RT	108			
LOWER AFTON RD	BUS STOP 16+50	RT				12
PROJECT TOTAL			1513	9050	260	2375

CHART C

REMOVE CONCRETE SIDEWALK			
ALIGNMENT	STA. - STA	LOCATION RT/LT	REMOVE CONCRETE SIDEWALK S.F.
MCKNIGHT RD	33+80 - 34+60	RT	400
MCKNIGHT RD	34+25 - 35+00	LT	375
MCKNIGHT RD	35+00 - 36+70	RT	1050
MCKNIGHT RD	36+40 - 36+70	LT	150
MCKNIGHT RD	36+00 - 37+40	LT	700
MCKNIGHT RD	37+25 - 38+40	RT	575
MCKNIGHT RD	37+70 - 38+40	LT	350
MCKNIGHT RD	39+00 - 41+80	LT	1400
PROJECT TOTAL			5000

CHART D

REMOVE STORM SEWER PIPE			
ALIGNMENT	STA. - STA	LOCATION RT/LT	REMOVE RCP
LOWER AFTON RD	14+75 - 15+25	RT	50
LOWER AFTON RD	MH 1 TO CB2	RT	30
LOWER AFTON RD	17+30 - 17+70	LT	40
LOWER AFTON RD	18+75 - 19+25	RT	50
LOWER AFTON RD	19+80 - 20+10	RT	30
PROJECT TOTAL			120

CHART E

SAWING BIT PAVEMENT			
ALIGNMENT	STA. - STA	LOCATION RT/LT	SAWING BIT PAVEMENT LF
MCKNIGHT RD	33+00 - 38+50	LT & RT	1100
MCKNIGHT RD	39+00 - 44+00	LT & RT	1000
MCKNIGHT RD	ENTRANCES	LT & RT	140
LOWER AFTON RD	13+00 - 16+75	LT & RT	750
LOWER AFTON RD	17+25 - 22+00	LT & RT	950
LOWER AFTON RD	ENTRANCES	RT	70
PROJECT TOTAL			4010

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DATE 4-19-05

CHART K

AGGREGATE AND BITUMINOUS SUMMARY			
ALIGNMENT	STA. - STA	LOCATION RT/LT	AGGREGATE
MCKNIGHT RD	33+00 - 44+00	LT & RT	320
MCKNIGHT RD	SIDEWALK	LT & RT	100
MCKNIGHT RD	BIT PATH	RT	40
MCKNIGHT RD	ENTRANCES	LT & RT	42
LOWER AFTON RD	13+00 - 22+00	LT & RT	240
LOWER AFTON RD	ENTRANCES	RT	16
PROJECT TOTAL			760

CHART L

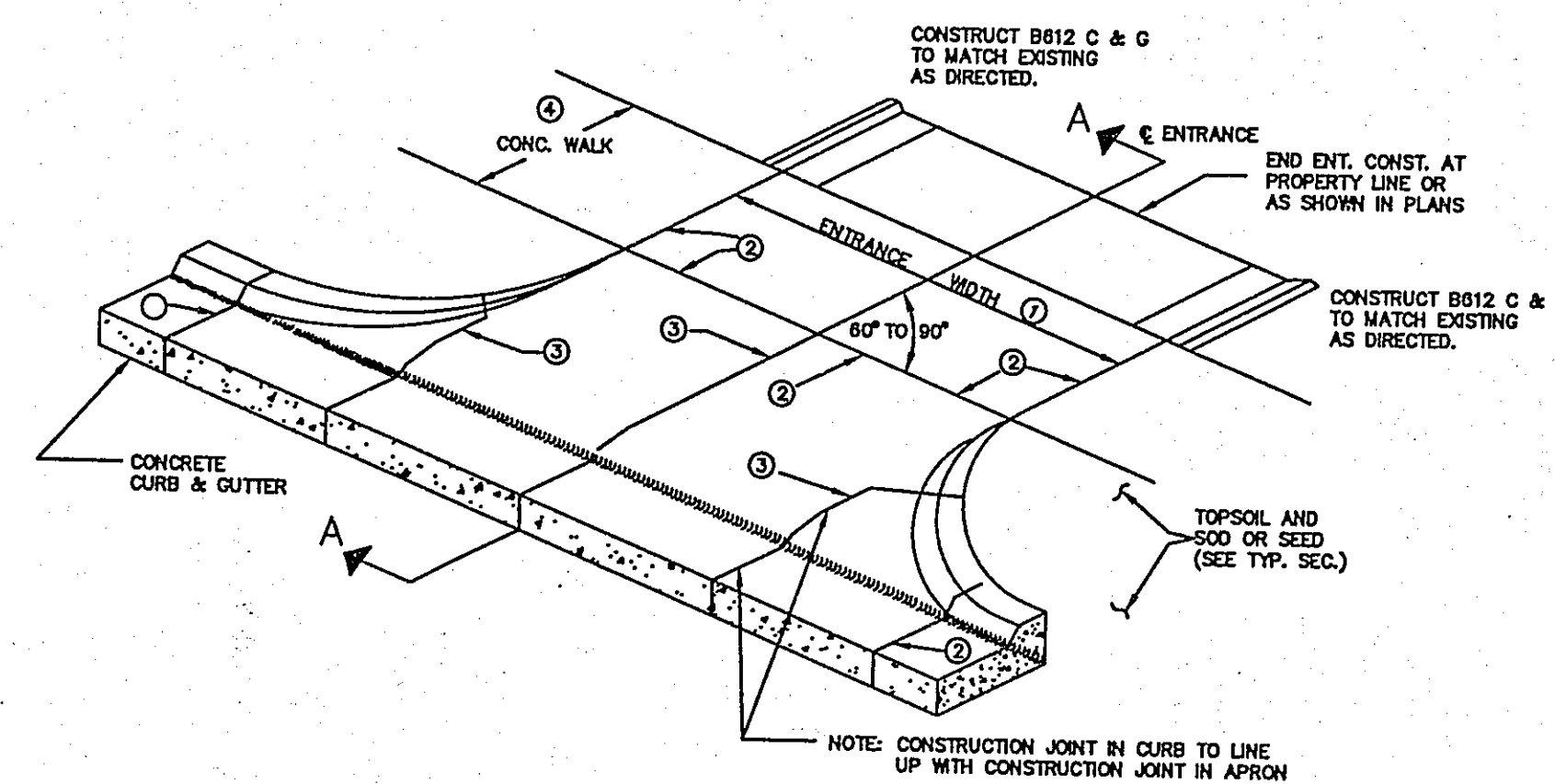
SILT FENCE			
ALIGNMENT	STA. - STA	LOCATION RT/LT	SILT FENCE LF
MCKNIGHT RD	33+00 - 35+00	LT	200
MCKNIGHT RD	39+25 - 41+80	LT	255
MCKNIGHT RD	39+25 - 43+00	RT	375
LOWER AFTON RD	13+00 - 16+50	LT	350
LOWER AFTON RD	17+50 - 22+00	LT	450
LOWER AFTON RD	13+75 - 14+75	RT	100
PROJECT TOTAL			1730

I hereby certify that this plan was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date 2/12/04 Reg. No. 20452

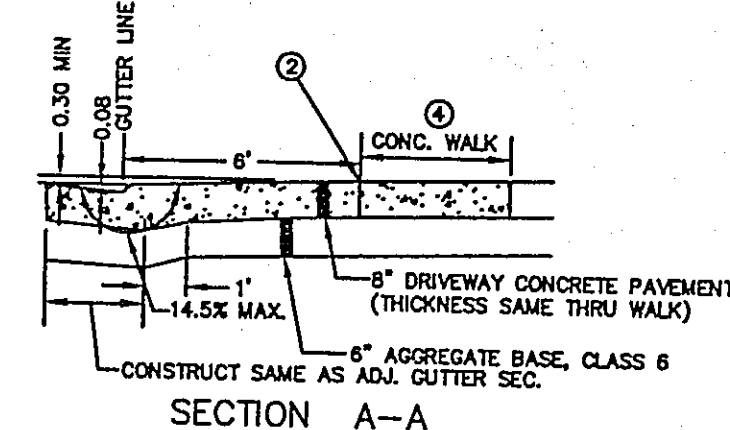
S.A.P. No. 062-668-043

Sheet No. 5 of 28 Sheets

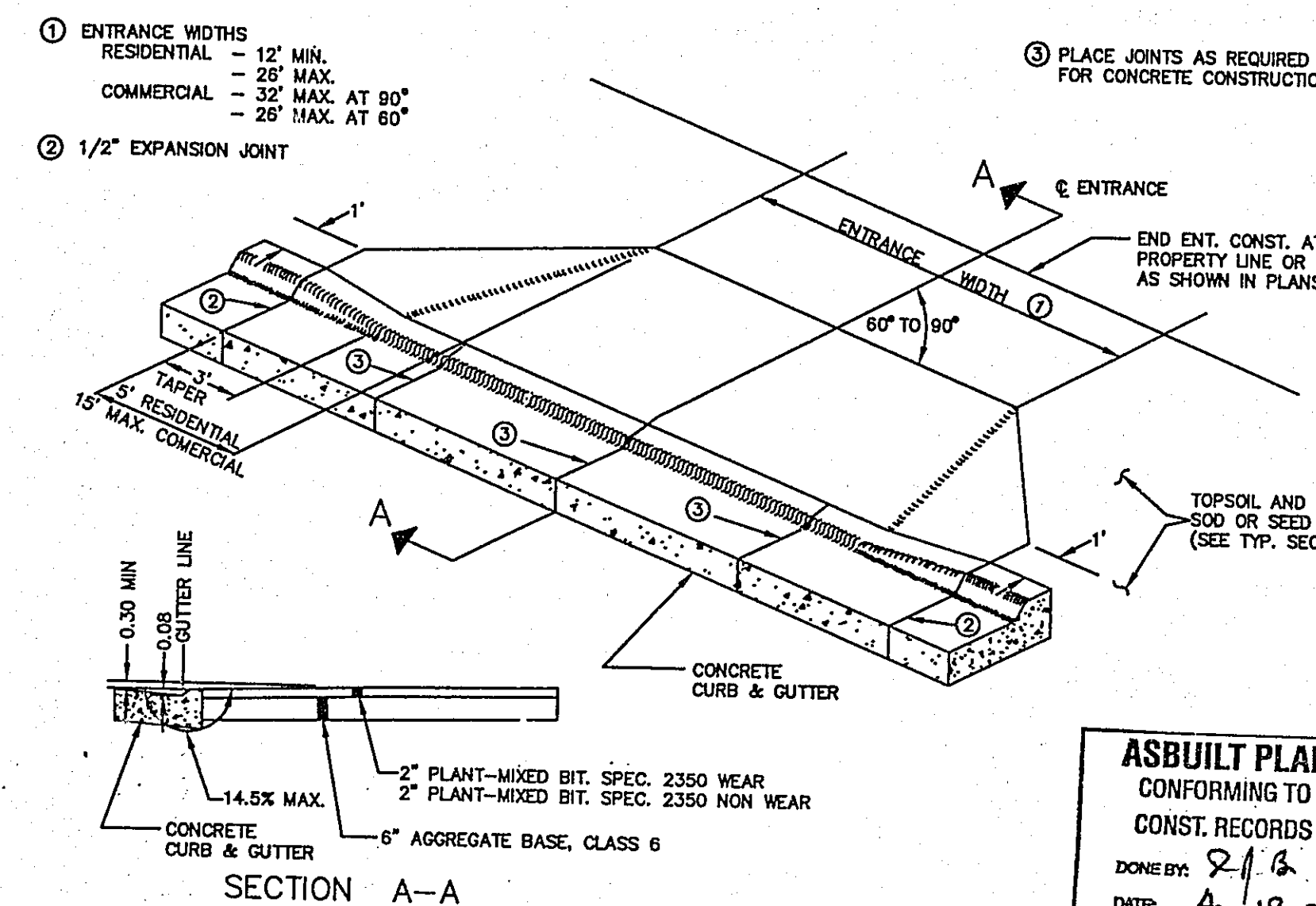
CONCRETE COMMERCIAL ENTRANCE DETAIL



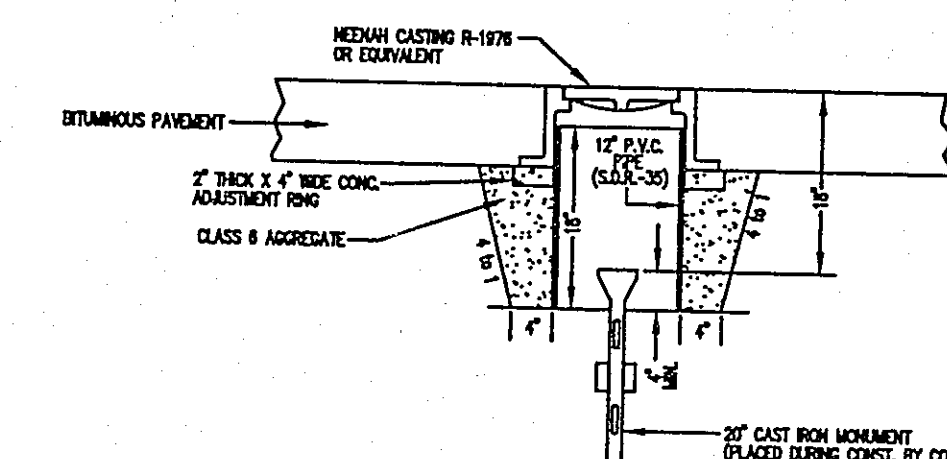
- ① ENTRANCE WIDTHS - 12" MIN. RESIDENTIAL - 24" MAX. COMMERCIAL - 36" MAX. AT 90° - 24" MAX. AT 60°
- ② 1/2" EXPANSION JOINT
- ③ PLACE JOINTS AS REQUIRED FOR CONCRETE CONSTRUCTION
- ④ SEE PLANS FOR SIDEWALK LOCATION



BITUMINOUS ENTRANCE DETAIL



CONTROL STRUCTURE SURVEY MONUMENT MANHOLE (FOR BITUMINOUS PAVEMENT)



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Date 2/12/04 Reg. No. 20452

S.A.P. No. 062-668-043

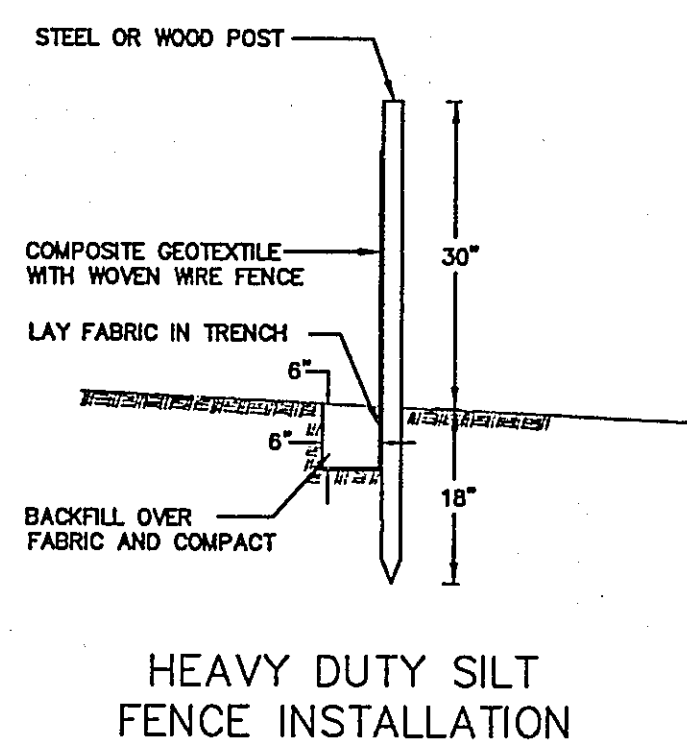
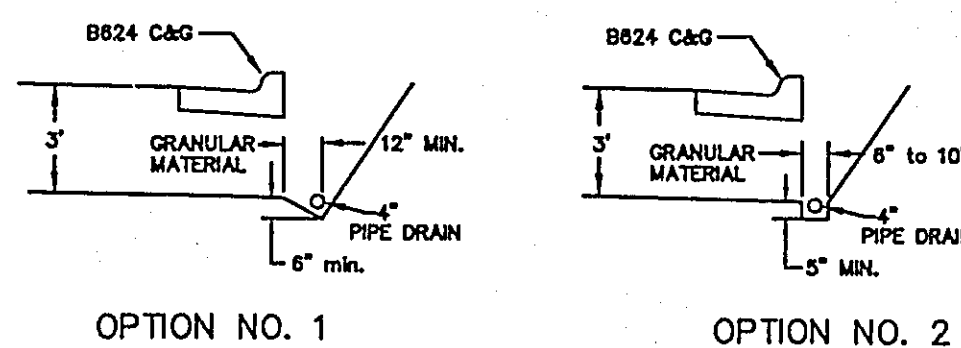
DETAILS 28-185

Sheet No. 6 of 28 Sheets

4" LONGITUDINAL P.E. PIPE DETAIL (SUBCUT DRAINAGE)

NOTES:
PAYMENT SHALL INCLUDE ALL WORK AND MATERIALS REQUIRED TO CONNECT TO CATCH BASINS.
2" MIN. GRANULAR AT ALL POINTS BELOW PIPE
4" PERFORATED P.E. PIPE DRAIN WITH 3733 TYPE 1 GEOTEXTILE WRAP SHALL BE INSTALLED PER SPEC. REFERENCE NO. 2502.

EXTEND DRAIN TILE 20" FROM ALL CATCH BASINS ON THE UP-STREAM SIDE BOTH DIRECTIONS AT LOW POINTS



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DATE 4-19-05

SILT FENCE BOX TO PROTECT DROP INLETS

TYPE A SPEC. 3091

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Date 2/12/04 Reg. No. 20452

S.A.P. No. 062-668-043

Sheet No. 7 of 28 Sheets

EXISTING STRUCTURES CHART

STATION EXISTING C-L	LOCATION EXISTING C-L	NO.	TYPE	CASTING ASSEMBLY TYPE	PROPOSED PROFILE ELEVATION	ELEVATION			REMOVE STRUCTURE EACH	SALVAGE CASTING	ADJUST FRAME & RING CASTING EACH	RECONSTRUCT CB OR MH LF	INSTALL CASTING ASSEMBLY EACH	FURNISH & INSTALL CASTING ASSEMBLY EACH	DRAINS TO		RCP PIPE SIZE	REMARKS
						ORIGINAL GRADE OR RING	NEW GRADE OR RING	CB, MH OR APRON INVERT										
LOWER AFTON ROAD																		
174+50	RT 40	1	MH STORM	7"		912.93	913.00	907.3										
174+25	RT 45	2	CB STORM	12"-4		911.30			1	1	1				2		12"	
164+84	RT 45	3	CB STORM	12"-4		910.90									5		30"	REMOVE
174+80	RT 30	15	MH SAN	7"		911.33	911.50	901.8	1	1	1				2		10"	REMOVE
21+00	LT 30	16	MH SAN	7"		920.75	923.00	910.2							8		18"	
194+55	RT 42	17	MH SAN	7"		919.30	919.80	909.2				8.0	1		15		14"	
174+80	RT 40	16	MH SAN	7"		910.60	912.80	904.6	1						18		16"	
												6.5	1		15		12"	
McKNIGHT ROAD																		
384+25	RT 22	4	CB STORM	11"		914.97			1	1								
404+25	RT 22	5	CB STORM	12"-4		910.80									2		24"	REMOVE
404+25	LT 22	6	CB STORM	12"-4		910.80									6		24"	REMOVE
384+25	RT 30	7	MH SAN	7"		912.40	910.60	905.0	1	1					EXIST AP		24"	REMOVE
384+10	RT 28	8	MH SAN	7"		910.80	910.80	908.8				5.1	1		18		12"	REMOVE
384+20	LT 42	9	MH SAN	7"		910.69	910.80	908.2							9			BURIED
384+40	LT 38	10	MH SAN	11"		911.00	911.20	900.5							WEST		8"	
384+50	LT 38	11	MH SAN	11"		913.50	913.70	901.4							UNKNOWN		8"	
364+30	LT 38	12	MH SAN	11"		912.00	911.60								10		8"	
374+45	RT 35	13	TELEPHONE	11"		916.40	915.50	905.8										ADJUST BY OTHERS
364+35	RT 35	14	MH SAN	7"											7		8"	
TOTALS																		
										6	5	8	19.6	3				
VERIFY OFFSETS FROM OUR CONST. CL FOR STRUCTURES																		

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS
DATE 4-19-05

SUMMARY

REMOVE CB - MH 8 EACH
SALVAGE CASTING 5 EACH
REMOVE CURB/PVC 140 LF
REMOVE RCP 80 LF
RECONSTRUCT MH/CB 19.6 EACH
ADJUST FRAME & RING 8 EACH

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Date 2/12/04 Reg. No. 20452

S.A.P. No. 62-668-043

SHEET 8 OF 28 SHEETS

STATION	NO.	TYPE	DESIGN	CASTING	ELEVATION				CONST. HEIGHT	15" CLASS	18" CLASS	21" CLASS	24" CLASS	REMARKS
					NEW	CB	IN	OR						
CONST.	OFFSET			ASSEMBLY	GRATE	OR	APRON	INVERT						
14+10	RT 46	101	AP	15" RCP	M-7									OUTLET
14+50	RT 46	102	SD	C OR G	B-5									
14+50	RT 37	103	CB	C OR G	B-5									
14+50	LT 28	104	CB	C OR G	B-5									OUTLET
14+50	LT 41	105	AP	15" RCP	A-7									
17+45	LT 36	106	CB	C OR G	B-5									BUILD OVER EXISTING PIPE
17+45	LT 36	107	SD	C OR G	M-7									
17+45	LT 30	108	MH	A OR F	A-7									MAKE SUITABLE CONNECTION
17+45	RT 30	109	CB	C OR G	B-5									
18+50	RT 30	110	CB	C OR G	B-5									BUILD OVER EXISTING PIPE
18+50	RT 36	111	SD	C OR G	M-7									
18+50	RT 36	112	SD	C OR G	M-7									BUILD OVER EXISTING PIPE
18+50	RT 36	113	CB	C OR G	B-5									
18+50	LT 28	114	CB	C OR G	B-5									
18+50	LT 28	115	CB	C OR G	B-5									
18+50	LT 28	116	CB	C OR G	B-5									
18+50	LT 28	117	CB	C OR G	B-5									
18+50	LT 28	118	CB	C OR G	B-5									
18+50	LT 28	119	CB	C OR G	B-5									
18+50	LT 28	120	CB	C OR G	B-5									
18+50	LT 28	121	CB	C OR G	B-5									
18+50	LT 28	122	CB	C OR G	B-5									
18+50	LT 28	123	CB	C OR G	B-5									
18+50	LT 28	124	CB	C OR G	B-5									
18+50	LT 28	125	CB	C OR G	B-5									
18+50	LT 28	126	CB	C OR G	B-5									
18+50	LT 28	127	CB	C OR G	B-5									
18+50	LT 28	128	CB	C OR G	B-5									
18+50	LT 28	129	CB	C OR G	B-5									
18+50	LT 28	130	CB	C OR G	B-5									
18+50	LT 28	131	CB	C OR G	B-5									
18+50	LT 28	132	CB	C OR G	B-5									
18+50	LT 28	133	CB	C OR G	B-5									
18+50	LT 28	134	CB	C OR G	B-5									
18+50	LT 28	135	CB	C OR G	B-5									
18+50	LT 28	136	CB	C OR G	B-5									
18+50	LT 28	137	CB	C OR G	B-5									
18+50	LT 28	138	CB	C OR G	B-5									
18+50	LT 28	139	CB	C OR G	B-5									
18+50	LT 28	140	CB	C OR G	B-5									
18+50	LT 28	141	CB	C OR G	B-5									
18+50	LT 28	142	CB	C OR G	B-5									
18+50	LT 28	143	CB	C OR G	B-5									
18+50	LT 28	144	CB	C OR G	B-5									
18+50	LT 28	145	CB	C OR G	B-5									
18+50	LT 28	146	CB	C OR G	B-5									
18+50	LT 28	147	CB	C OR G	B-5									
18+50	LT 28	148	CB	C OR G	B-5									
18+50	LT 28	149	CB	C OR G	B-5									
18+50	LT 28	150	CB	C OR G	B-5									
18+50	LT 28	151	CB	C OR G	B-5									
18+50	LT 28	152	CB	C OR G	B-5									
18+50	LT 28	153	CB	C OR G	B-5									
18+50	LT 28	154	CB	C OR G	B-5									
18+50	LT 28	155	CB	C OR G	B-5									
18+50	LT 28	156	CB	C OR G	B-5									
18+50	LT 28	157	CB	C OR G	B-5									
18+50	LT 28	158	CB	C OR G	B-5									
18+50	LT 28	159	CB	C OR G	B-5									
18+50	LT 28	160	CB	C OR G	B-5									
18+50	LT 28	161	CB	C OR G	B-5									
18+50	LT 28	162	CB	C OR G	B-5									
18+50	LT 28	163	CB	C OR G	B-5									
18+50	LT 28	164	CB	C OR G	B-5									
18+50	LT 28	165	CB	C OR G	B-5									
18+50	LT 28	166	CB	C OR G	B-5									
18+50	LT 28	167	CB	C OR G	B-5									
18+50	LT 28	168	CB	C OR G	B-5									
18+50	LT 28	169	CB	C OR G	B-5									
18+50	LT 28	170	CB	C OR G	B-5									
18+50	LT 28	171	CB	C OR G	B-5									
18+50	LT 28	172	CB	C OR G	B-5									
18+50	LT 28	173	CB	C OR G	B-5									
18+50	LT 28	174	CB	C OR G	B-5									
18+50	LT 28	175	CB	C OR G	B-5									
18+50	LT 28	176	CB	C OR G	B-5									
18+50	LT 28	177	CB	C OR G	B-5									
18+50	LT 28	178	CB	C OR G	B-5									
18+50	LT 28	179	CB	C OR G	B-5									
18+50	LT 28	180	CB	C OR G	B-5									
18+50	LT 28	181	CB	C OR G	B-5									
18+50	LT 28	182	CB	C OR G	B-5									
18+50	LT 28	183	CB	C OR G	B-5									
18+50	LT 28	184	CB	C OR G	B-5									
18+50	LT 28	185	CB	C OR G	B-5									
18+50	LT 28	186	CB	C OR G	B-5									
18+50	LT 28	187	CB	C OR G	B-5									
18+50	LT 28	188	CB	C OR G	B-5									
18+50	LT 28	189	CB	C OR G	B-5									
18+50	LT 28	190	CB	C OR G	B-5									
18+50	LT 28	191	CB	C OR G	B-5									
18+50	LT 28	192	CB	C OR G	B-5									
18+50	LT 28	193	CB	C OR G	B-5									
18+50	LT 28	194	CB	C OR G	B-5									
18+50	LT 28	195	CB	C OR G	B-5									
18+50	LT 28	196	CB	C OR G	B-5									
18+50	LT 28	197	CB	C OR G	B-5									
18+50	LT 28	198	CB	C OR G	B-5									
18+50	LT 28	199	CB	C OR G	B-5									
18+50	LT 28	200	CB	C OR G	B-5									
18+50	LT 28	201	CB	C OR G	B-5									
18+50	LT 28	202	CB	C OR G	B-5									
18+50	LT 28	203	CB	C OR G	B-5									
18+50	LT 28	204	CB	C OR G	B-5									
18+50	LT 28	205	CB	C OR G	B-5									
18+50	LT 28	206	CB	C OR G	B-5									
18+50	LT 28	207	CB	C OR G	B-5									
18+50	LT 28	208	CB	C OR G	B-5									
18+50	LT 28	209	CB	C OR G	B-5									
18+50	LT 28	210	CB	C OR G	B-5									
18+50	LT 28	211	CB	C OR G	B-5									
18+50	LT 28	212	CB	C OR G	B-5									
18+50	LT 28	213	CB	C OR G	B-5									
18+50	LT 28	214	CB	C OR G	B-5									
18+50	LT 28	215												

