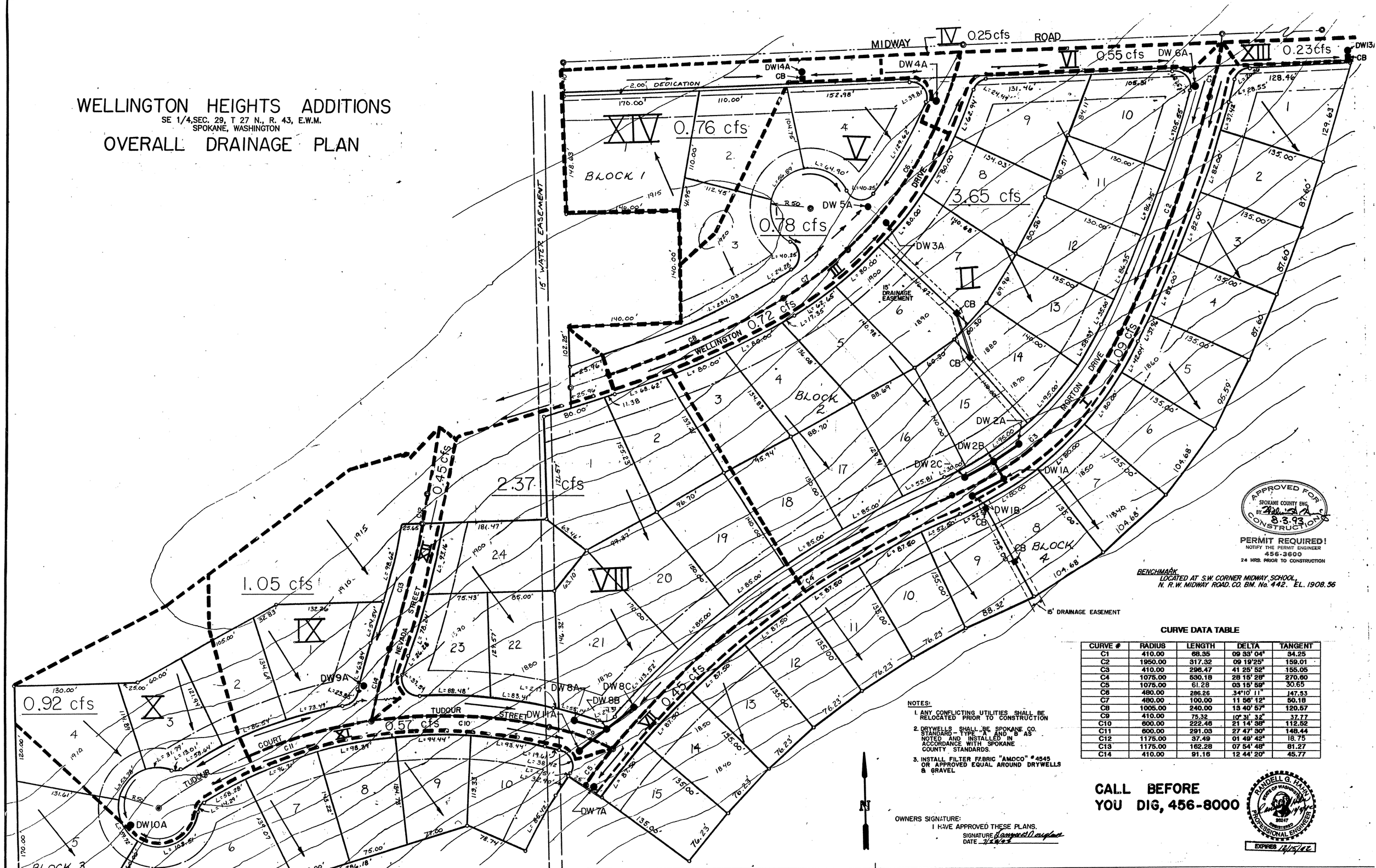
WELLINGTON HEIGHTS ADDITIONS

SE 1/4, SEC. 29, T 27 N., R. 43, E.W.M.
SPOKANE, WASHINGTON

OVERALL DRAINAGE PLAN



APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY: 8.3.93

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

BENCHMARK
LOCATED AT S.W. CORNER MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442. EL. 1908.56

15' DRAINAGE EASEMENT

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
C1	410.00	68.35	09 33' 04"	34.25
C2	1950.00	317.32	09 19'25"	159.01
C3	410.00	296.47	41 25' 52"	155.05
C4	1075.00	530.18	28 15' 28"	270.60
C5	1075.00	61.28	03 15' 59"	30.65
C6	480.00	286.26	34°10' 11"	147.53
C7	480.00	100.00	11 56' 12"	50.18
C8	1005.00	240.00	13 40' 57"	120.57
C9	410.00	75.32	10° 31' 32"	37.77
C10	600.00	222.46	21 14' 38"	112.52
C11	600.00	291.03	27 47' 30"	148.44
C12	1175.00	37.49	01 49' 42"	18.75
C13	1175.00	162.28	07 54' 48"	81.27
C14	410.00	91.16	12 44' 20"	45.77

NOTES:

1. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION
2. DRYWELLS SHALL BE SPOKANE CO. STANDARD - TYPE "A" AND "B" AS NOTED AND INSTALLED IN ACCORDANCE WITH SPOKANE COUNTY STANDARDS.
3. INSTALL FILTER FABRIC "AMOCO" #4545 OR APPROVED EQUAL AROUND DRYWELLS & GRAVEL

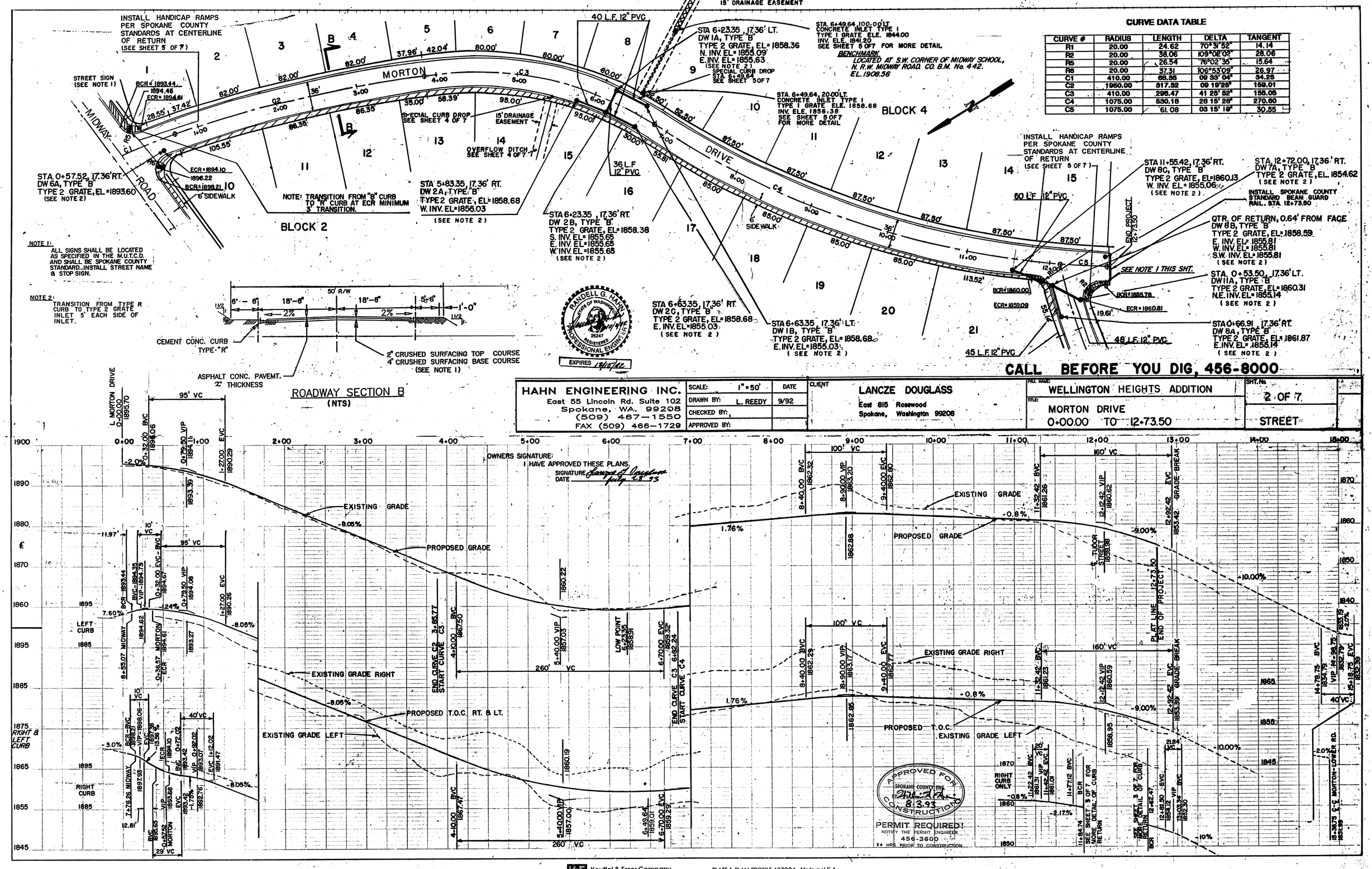
OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE Lancze Douglass
DATE 7/12/93

CALL BEFORE YOU DIG, 456-8000

RANDELL G. HAHN
STATE OF WASHINGTON
20247
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/15/92

HAHN ENGINEERING INC. East 55 Lincoln Rd. Suite 102 Spokane, WA. 99208 (509) 467-1550 FAX (509) 466-1729	SCALE: 1" = 50'	DATE	CLIENT: LANCZE DOUGLASS East 815 Rosewood Spokane, Washington 99208
	DRAWN BY: L. REEDY	9/92	PRJ. NAME: WELLINGTON HEIGHTS ADDITION
	CHECKED BY:		TITLE: OVER ALL DRAINAGE PLAN
	APPROVED BY:		SHEET No. 1 OF 7

LP1665-DRAIN-1.TLF



CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
R1	20.00	24.62	70°31'52"	14.14
R2	20.00	38.06	109°02'02"	26.06
R5	20.00	26.54	76°02'35"	15.64
R6	20.00	37.31	106°53'09"	26.97
C1	410.00	68.35	09 33' 04"	34.25
C2	1950.00	317.32	09 19'26"	159.01
C3	410.00	296.47	41 25' 52"	155.05
C4	1075.00	530.18	28 15' 28"	270.60
C5	1075.00	61.08	03 15' 19"	30.55

HAHN ENGINEERING INC.	SCALE: 1" = 50'	DATE	CLIENT: LANCZE DOUGLASS	PRJ. NAME: WELLINGTON HEIGHTS ADDITION	SHT. No.
East 55 Lincoln Rd. Suite 102 Spokane, WA. 99208 (509) 467-1550 FAX (509) 466-1729	DRAWN BY: L. REEDY	9/92	East 815 Rosewood Spokane, Washington 99208	TITLE: MORTON DRIVE 0+00.00 TO 12+73.50	2 OF 7
	CHECKED BY:				STREET
	APPROVED BY:				

PLAN — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B.M. NOTED / STRUCTURE DIMENSIONS CHECKED / No. / DATE

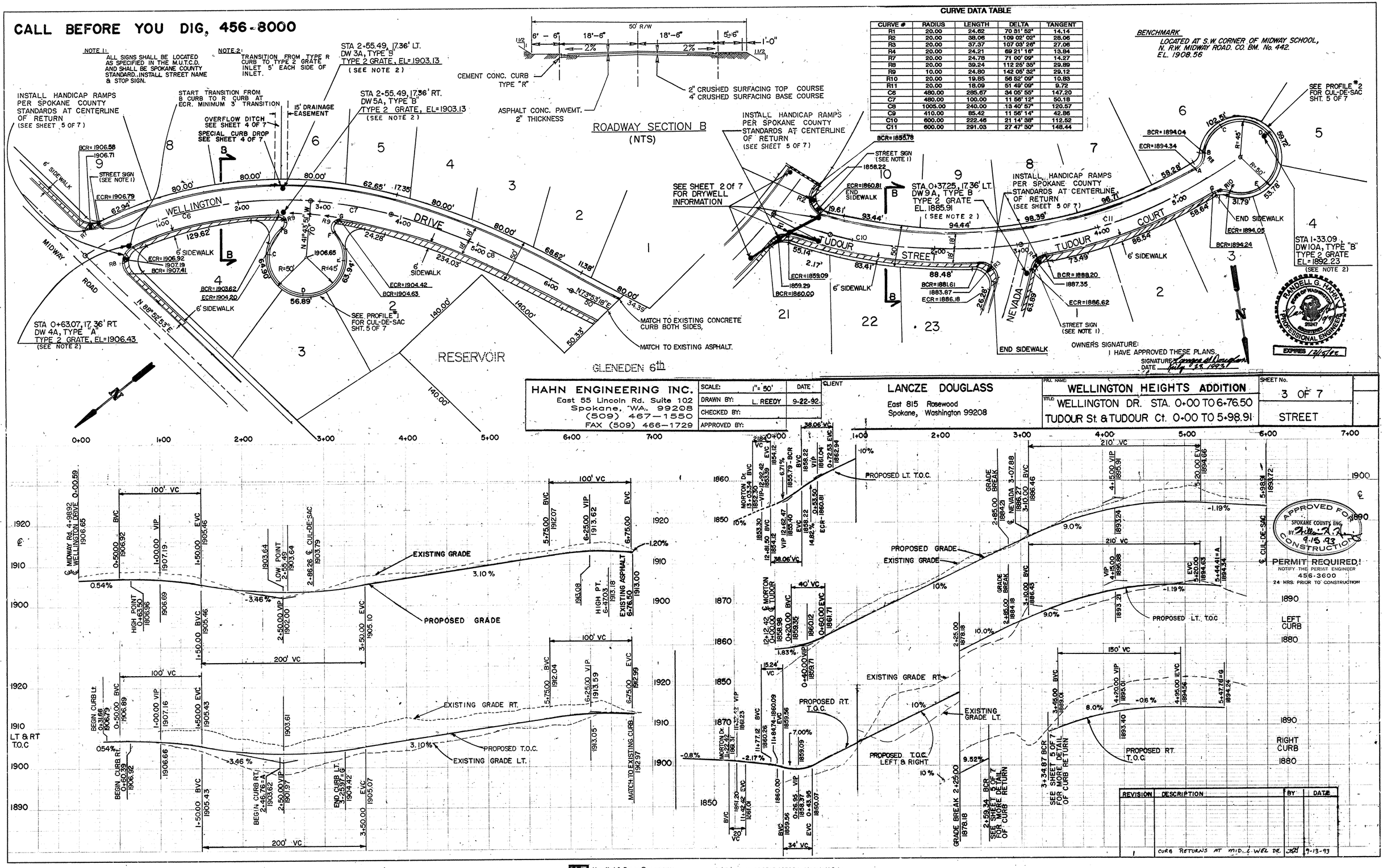
PROFILE — SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B.M. NOTED / STRUCTURE DIMENSIONS CHECKED / No. / DATE

LP1165-PP-1.TIF

CALL BEFORE YOU DIG, 456-8000

NOTE 1: ALL SIGNS SHALL BE LOCATED AS SPECIFIED IN THE M.U.T.C.D. AND SHALL BE SPOKANE COUNTY STANDARD. INSTALL STREET NAME & STOP SIGN.

NOTE 2: TRANSITION FROM TYPE R CURB TO TYPE 2 GRATE INLET 5' EACH SIDE OF INLET.



BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442.
EL. 1908.56

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
R1	20.00	24.62	70 31' 52"	14.14
R2	20.00	38.06	109 02' 02"	28.06
R3	20.00	37.37	107 03' 26"	27.06
R4	20.00	24.21	69 21' 16"	13.84
R7	20.00	24.78	71 00' 09"	14.27
R8	20.00	39.24	112 25' 35"	29.89
R9	10.00	24.80	142 05' 32"	29.12
R10	20.00	19.85	56 52' 09"	10.83
R11	20.00	18.09	51 49' 09"	9.72
C6	480.00	285.67	34 05' 55"	147.20
C7	480.00	100.00	11 56' 12"	50.18
C8	1005.00	240.00	13 40' 57"	120.57
C9	410.00	85.42	11 56' 14"	42.86
C10	600.00	222.46	21 14' 38"	112.52
C11	600.00	291.03	27 47' 30"	148.44

HAHN ENGINEERING INC. East 55 Lincoln Rd. Suite 102 Spokane, WA. 99208 (509) 467-1550 FAX (509) 466-1729	SCALE: 1"= 50'	DATE	CLIENT: LANCZE DOUGLASS East 815 Rosewood Spokane, Washington 99208
	DRAWN BY: L. REEDY	9-22-92	PRJ. NAME: WELLINGTON HEIGHTS ADDITION
	CHECKED BY:		TITLE: WELLINGTON DR. STA. 0+00 TO 6+76.50 TUDOUR St & TUDOUR Ct. 0+00 TO 5+98.91
	APPROVED BY:		SHEET No. 3 OF 7 STREET

REVISION	DESCRIPTION	BY	DATE
1	CURB RETURNS AT MID. & WEL DR.		9-13-93

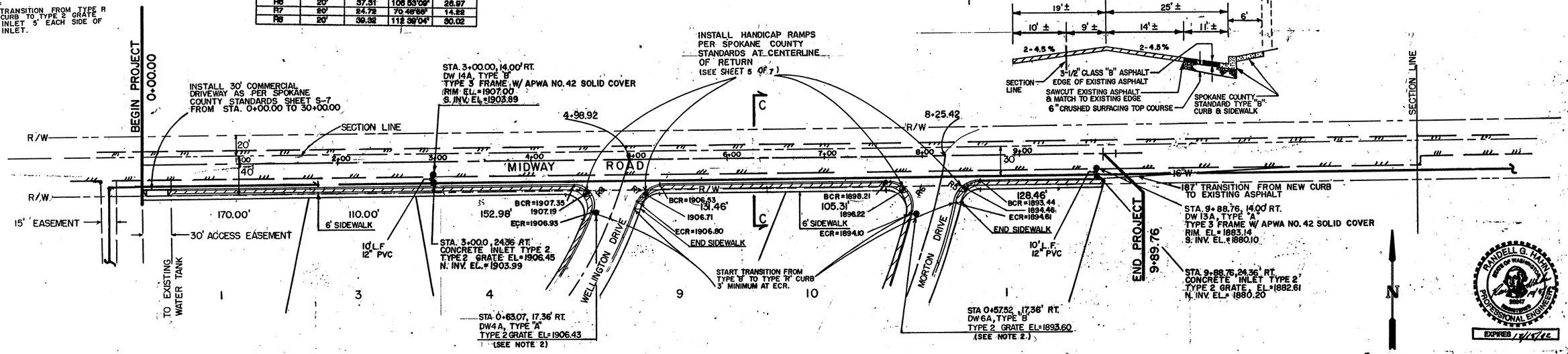
Keuffel & Esser Company PLATE 1, PLAN-PROFILE 487024 Made in U.S.A.

LP1665-PP-2.TIF

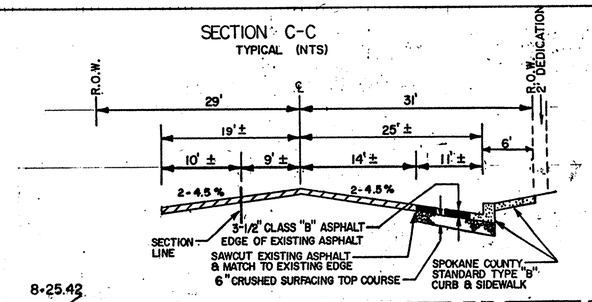
NOTE 1:
ALL SIGNS SHALL BE LOCATED AS SPECIFIED IN THE M.U.T.C.D. AND SHALL BE SPOKANE COUNTY STANDARD. INSTALL STREET NAME & STOP SIGN.

NOTE 2:
TRANSITION FROM TYPE R CURB TO TYPE 2 GRATE INLET 5' EACH SIDE OF INLET.

CURVE DATA TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
R5	20'	26.54	76 02'35"	15.64
R6	20'	37.31	106 53'09"	26.97
R7	20'	24.72	70 46'56"	14.22
R9	20'	39.32	112 39'04"	30.02



SECTION C-C
TYPICAL (NTS)



BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442.

RANDELL G. HAHN
STATE OF WASHINGTON
20047
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/15/92

CALL BEFORE YOU DIG, 456-8000

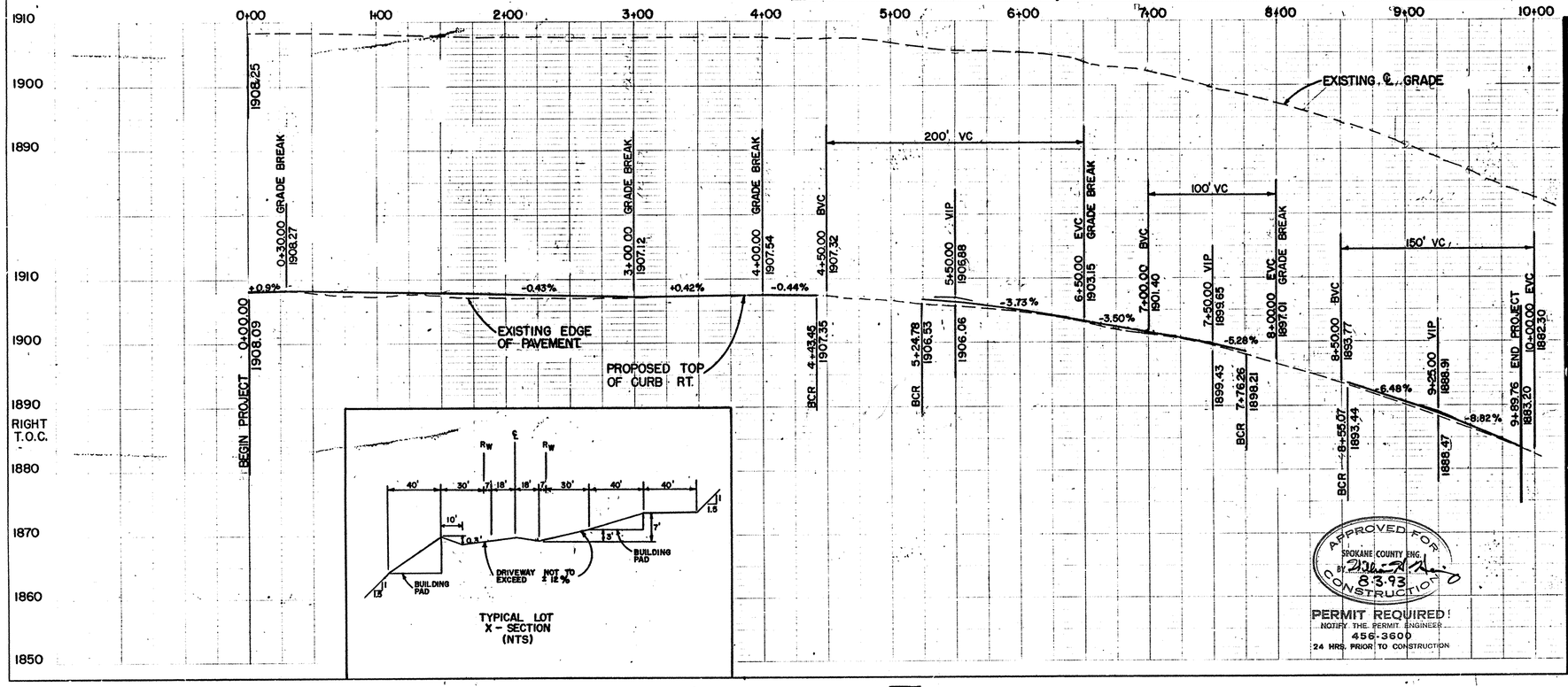
OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE Lancze Douglass
DATE July 28 1992

HAHN ENGINEERING INC.	SCALE: 1"=50'	DATE
East 55 Lincoln Rd. Suite 102 Spokane, WA. 99208 (509) 467-1550 FAX (509) 466-1729	DRAWN BY: L. REEDY	9-17-92
	CHECKED BY:	
	APPROVED BY:	

CLIENT: LANCZE DOUGLASS
East 815 Rosewood
Spokane, Washington 99208

PRJ. NAME: WELLINGTON HEIGHTS ADDITION
TITLE: MIDWAY ROAD STA. 0+00 TO 13+02.00

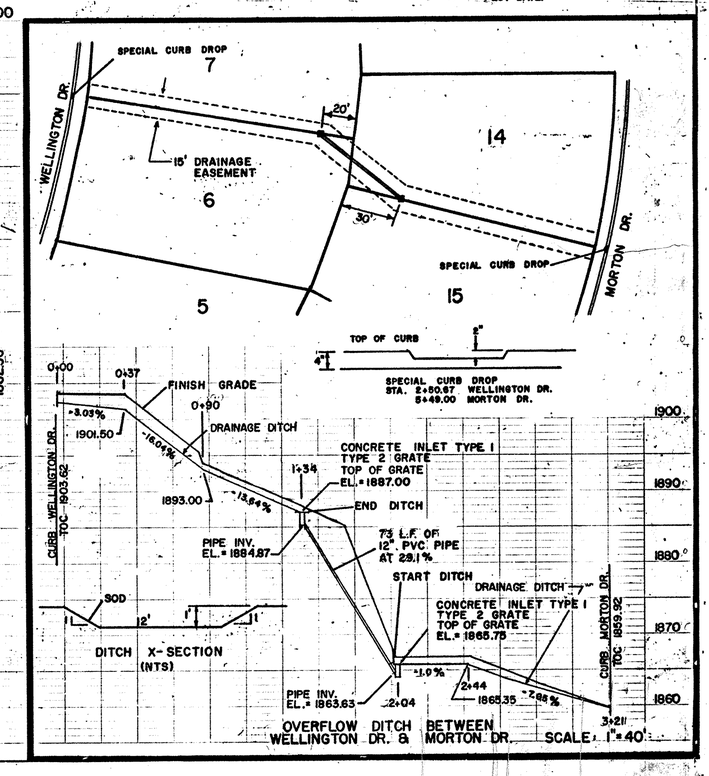
4 OF 7
STREET
PLOT DATE:



TYPICAL LOT X-SECTION (NTS)

APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY 8-3-93

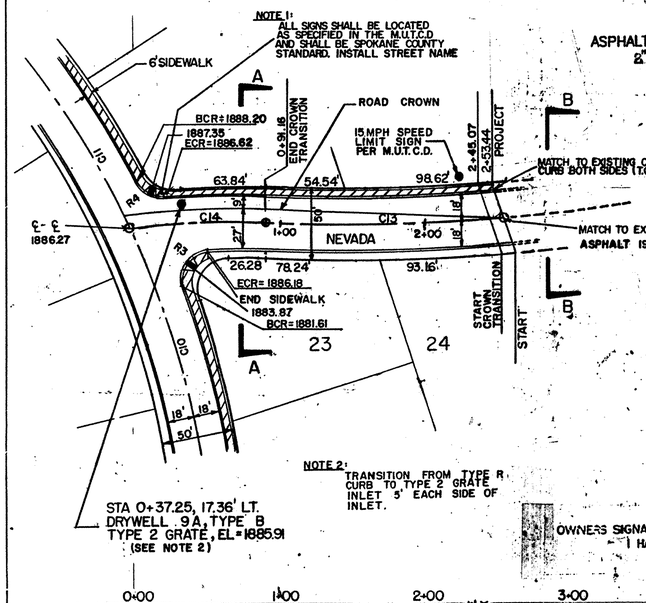
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

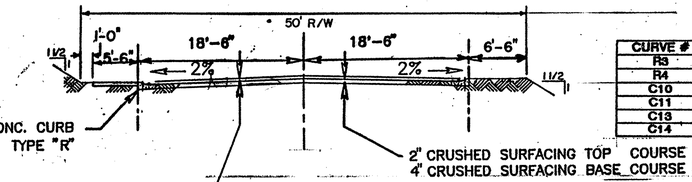


PLAN
NOTE BOOK
PROFILE
NOTE BOOK

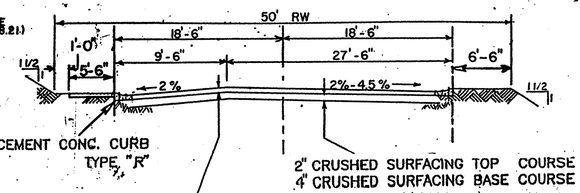
LP1665-PP-3.TIF

BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. B.M. No. 442. EL. 1908.56





ROADWAY SECTION B
(NTS)

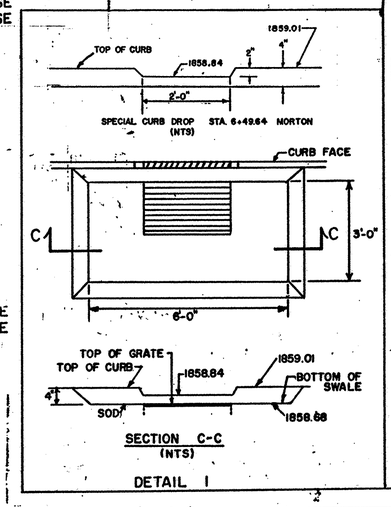


ROADWAY SECTION A
(NTS)

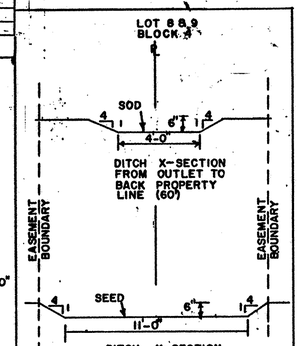
CALL BEFORE YOU DIG, 456-8000

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
R3	20.00	37.37	107°03'26"	27.06
R4	20.00	24.21	69 21' 16"	13.84
C10	600.00	222.46	21 14' 38"	112.52
C11	600.00	291.03	27 47' 30"	148.44
C13	1175.00	162.28	07 54' 48"	81.27
C14	410.00	91.16	12 44' 20"	45.77



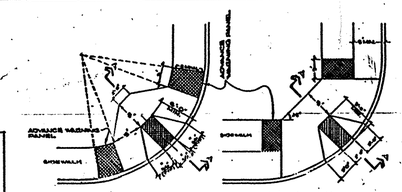
DETAIL 1

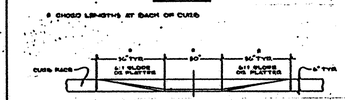


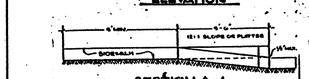
MINIMUM SEEDING RATE, DRYLAND GRASS	(PLS)
1. SIBERIAN WHEAT GRASS	54.6 #/AC
2. CRESTED WHEAT GRASS	52.5 #/AC
3. THICK SPIKE WHEAT GRASS	49.4 #/AC
4. SHEEP FESCUE GRASS	27.3 #/AC
5. BIG BLUE GRASS	26.3 #/AC

TOTAL AREA TO SEED = 0.055 AC

DETAIL 2







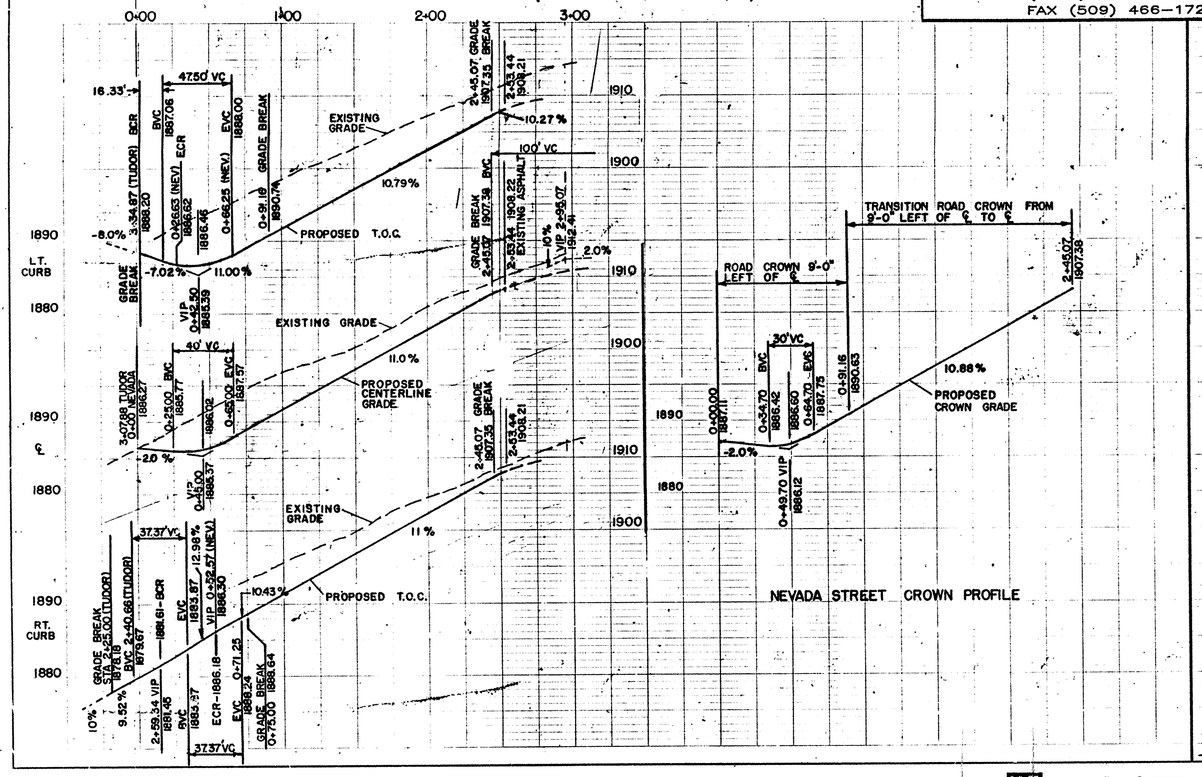
NOTES....

1. DRAINAGE AREA SHALL BE OUTSIDE THE WHEELCHAIR RAMP.
2. THE WHEELCHAIR RAMP SHALL BE MOVED AS NEEDED TO THE CROSSWALK TO AVOID CONFLICTS WITH UTILITIES, POLES, GATES, OR OTHER UTILITIES, EXCEPT WHERE OTHERWISE SHOWN.
3. IF THE WHEELCHAIR RAMP CANNOT BE MOVED ACCORDING TO NOTE 2, AND MUST BE LOCATED WITHIN THE CROSSWALK, THE RAMP MUST HAVE A SLIPPERY SURFACE APPROVED BY THE COUNTY ENGINEER.
4. TEXTURE FOR THE RAMP AND ADVANCE WARNING PANELS, WHERE REQUIRED, SHALL BE FLOORSTONE, THE DARK GRAY COLOR, SHALL NOT EXCEED A CONTRAST OF 1/4.

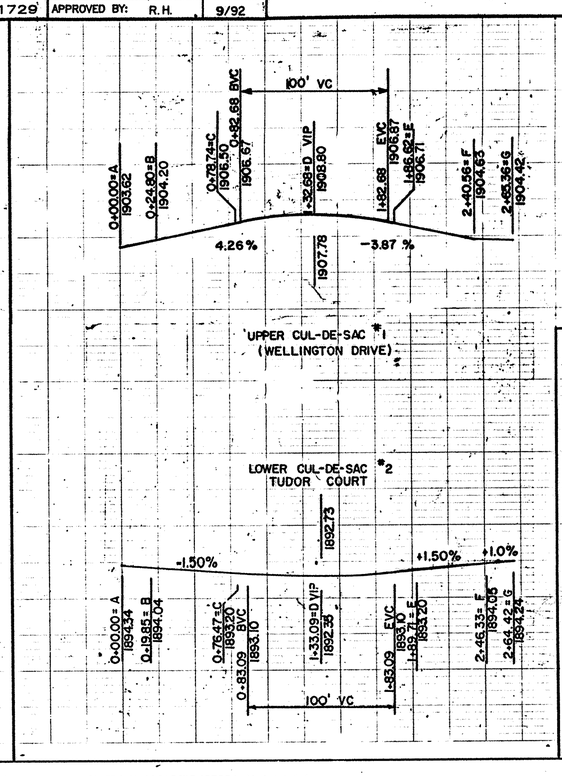
STANDARD
WHEELCHAIR RAMP

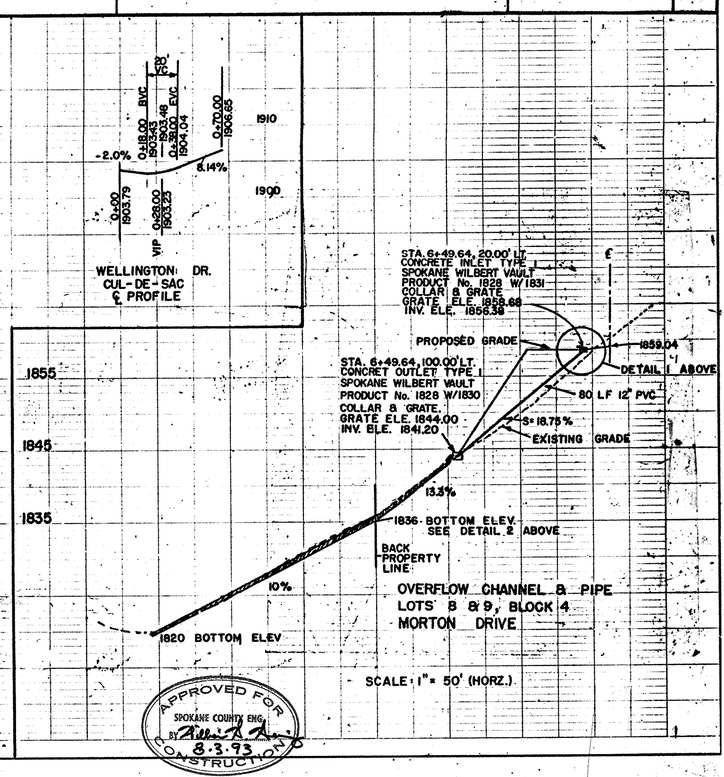
RANDELL G. HAHN, STATE OF WASHINGTON, 20847, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 10/5/92

OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE Jacque A Douglas
DATE July 28 1993



NEVADA STREET CROWN PROFILE





APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY Allen A. Rose
8-3-93

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION

HAHN ENGINEERING INC.	SCALE: 1" = 50'	DATE
East 55 Lincoln Rd. Suite 102	DRAWN BY: L. REEDY	9/92
Spokane, WA. 99208	CHECKED BY: R.H.	9/92
(509) 467-1550	APPROVED BY: R.H.	9/92
FAX (509) 466-1729		

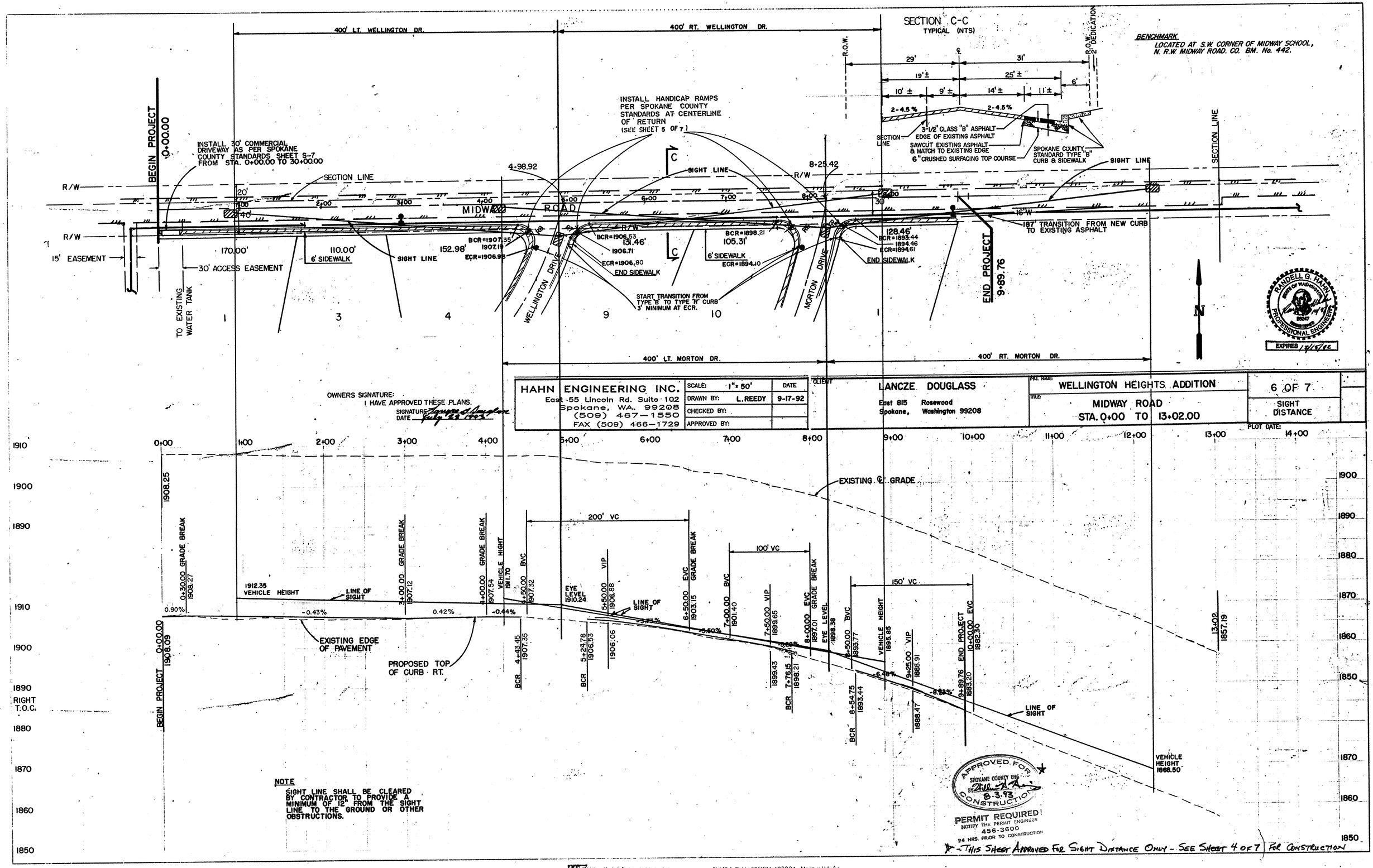
LANCZE DOUGLASS
East 815 Rosewood
Spokane, Washington 99208

PRJ. NAME: WELLINGTON HEIGHTS ADDITION
TITLE: NEVADA 0+00.00 TO 2+53.44
SHT. No. 5 OF 7
STREET

PLAN — NOTE BOOK — ALIGNMENT CHECKED — INT. OF N.W. CHECKED — No.
PROFILE — NOTE BOOK — ALIGNMENT CHECKED — No.

Keuffel & Esser Company PLATE 1, PLAN-PROFILE 487024 Made in U.S.A.

LP1165-PR-4.TIF



Keuffel & Esser Co. PLATE 1, PLAN-PROFILE 487024 Made in U.S.A.

L21665-PP-5.TIF

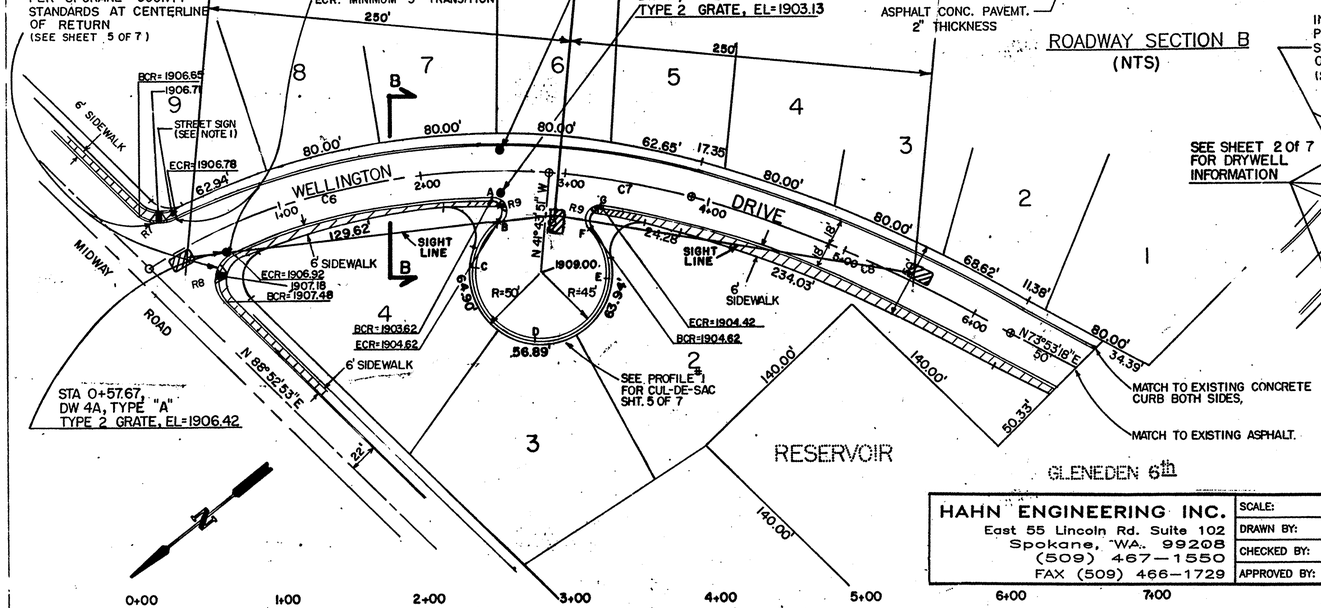
NOTE 1:
ALL SIGNS SHALL BE LOCATED AS SPECIFIED IN THE M.U.T.C.D. AND SHALL BE SPOKANE COUNTY STANDARD. INSTALL STREET NAME & STOP SIGN.

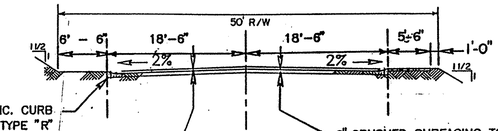
INSTALL HANDICAP RAMPS PER SPOKANE COUNTY STANDARDS AT CENTERLINE OF RETURN (SEE SHEET 5 OF 7)

START TRANSITION FROM B CURB TO R CURB AT ECR. MINIMUM 3' TRANSITION

STA 2+55.49, DW 3A, TYPE "B" TYPE 2 GRATE, EL=1903.13

STA 2+55.49, DW 5A, TYPE "B" TYPE 2 GRATE, EL=1903.13



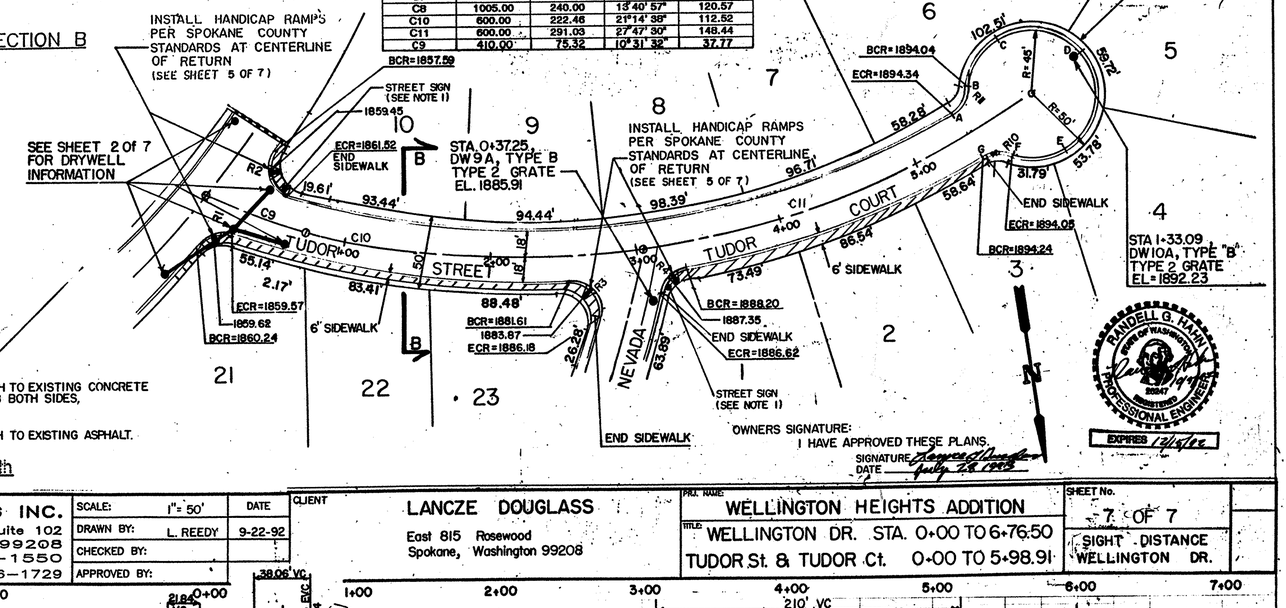


ROADWAY SECTION B
(NTS)

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
R1	20.00	24.40	69°54'51"	13.98
R2	20.00	38.32	109°48'30"	26.44
R3	20.00	37.37	107°03'26"	27.06
R4	20.00	24.21	69°21'16"	13.84
R7	20.00	24.72	70°46'55"	14.22
R8	20.00	39.32	112°39'04"	30.02
R9	10.00	24.80	142°05'32"	29.12
R10	20.00	19.85	56°52'09"	10.83
R11	20.00	18.09	51°49'09"	9.72
C6	480.00	286.26	34°10'11"	147.53
C7	480.00	100.00	11°56'12"	50.18
C8	1005.00	240.00	13°40'57"	120.57
C10	600.00	222.46	21°14'38"	112.52
C11	600.00	291.03	27°47'30"	146.44
C9	410.00	75.32	10°31'32"	37.77

BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442. EL. 1908.56



OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE
DATE July 28 1993

RANDELL G. HAHN, STATE OF WASHINGTON, 20847, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/5/92

HAHN ENGINEERING INC.	SCALE: 1"= 50'	DATE
East 55 Lincoln Rd. Suite 102	DRAWN BY: L. REEDY	9-22-92
Spokane, WA. 99208	CHECKED BY:	
(509) 467-1550	APPROVED BY:	
FAX (509) 466-1729		

CLIENT
LANCZE DOUGLASS
East 815 Rosewood
Spokane, Washington 99208

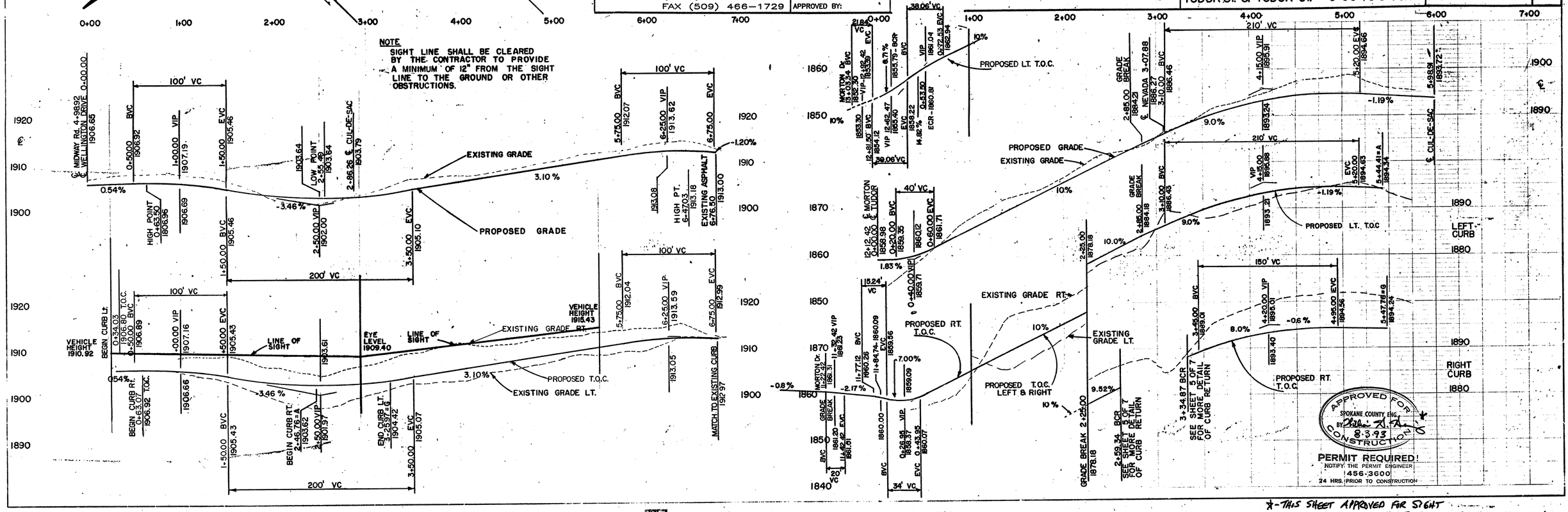
PRJ. NAME: WELLINGTON HEIGHTS ADDITION
TITLE: WELLINGTON DR. STA. 0+00 TO 6+76.50
TUDOR St. & TUDOR Ct. 0+00 TO 5+98.91

SHEET No. 7 OF 7
SIGHT DISTANCE WELLINGTON DR.

NOTE
SIGHT LINE SHALL BE CLEARED BY THE CONTRACTOR TO PROVIDE A MINIMUM OF 12" FROM THE SIGHT LINE TO THE GROUND OR OTHER OBSTRUCTIONS.

PLAN

PROFILE



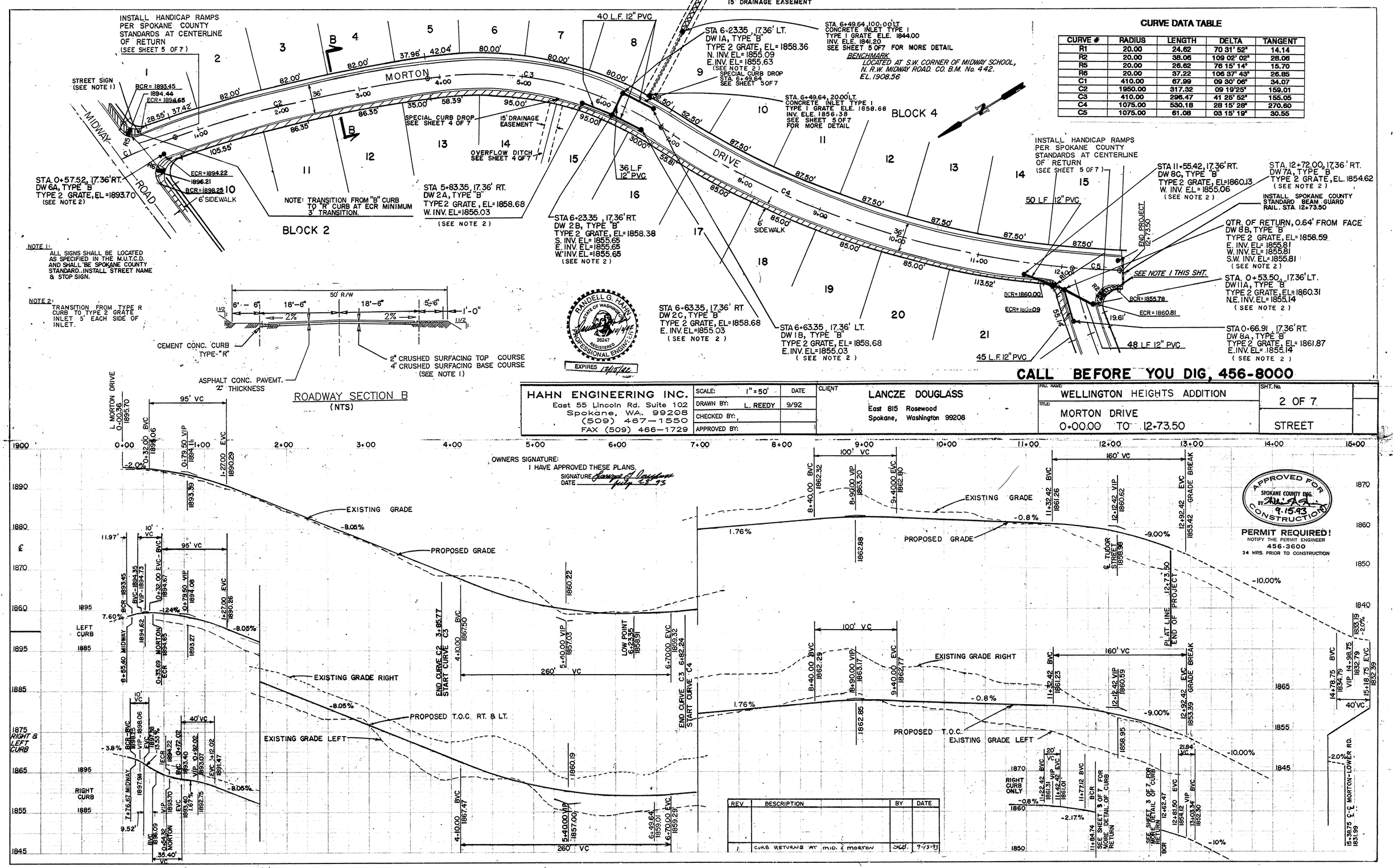
APPROVED FOR CONSTRUCTION
SPOKANE COUNTY ENG.
BY 8-3-93

PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
1456-3600
24 HRS. PRIOR TO CONSTRUCTION

*-THIS SHEET APPROVED FOR SIGHT DISTANCE ONLY - SEE SHEET 3 OF 7 FOR CONSTRUCTION

Keuffel & Esser Company PLATE 1 PLATE 2 PLATE 3 PLATE 4 Made in U.S.A.

LP1665-PP-6.TIF



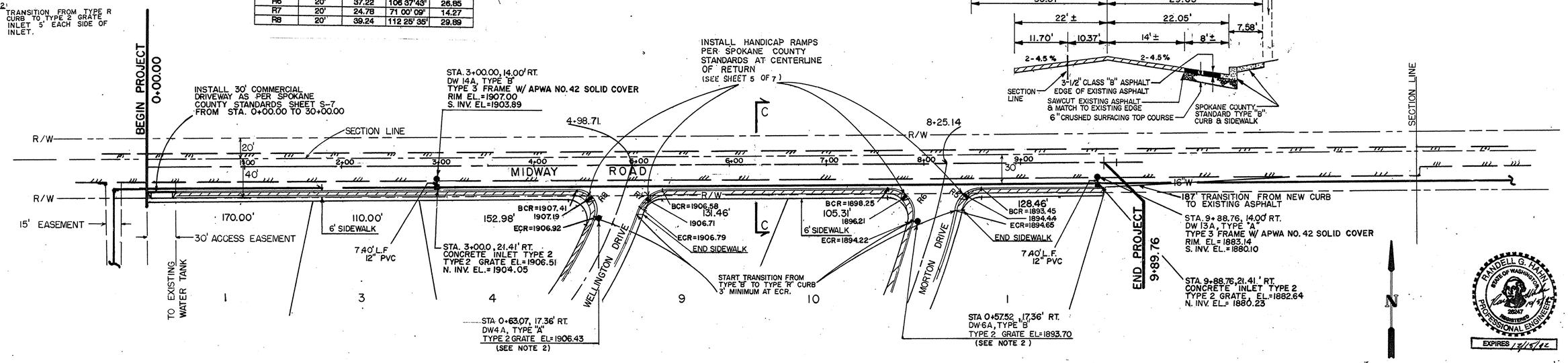
Keuffel & Esser Company PLATE 1, PLAN-PROFILE 487024 Made in U.S.A.

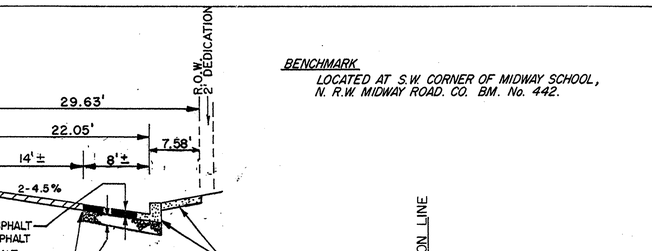
LP1665-PP-7.TIF

NOTE 1:
ALL SIGNS SHALL BE LOCATED AS SPECIFIED IN THE M.U.T.C.D. AND SHALL BE SPOKANE COUNTY STANDARD. INSTALL STREET NAME & STOP SIGN.

NOTE 2:
TRANSITION FROM TYPE R CURB TO TYPE 2 GRATE INLET 5' EACH SIDE OF INLET.

CURVE DATA TABLE				
CURVE	RADIUS	LENGTH	DELTA	TANGENT
R5	20'	26.62	76 15' 14"	15.70
R6	20'	37.22	106 37'43"	26.85
R7	20'	24.78	71 00' 09"	14.27
R8	20'	39.24	112 25' 35"	29.89





BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442.

RANDELL G. HAHN, STATE OF WASHINGTON, 26247, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/5/92

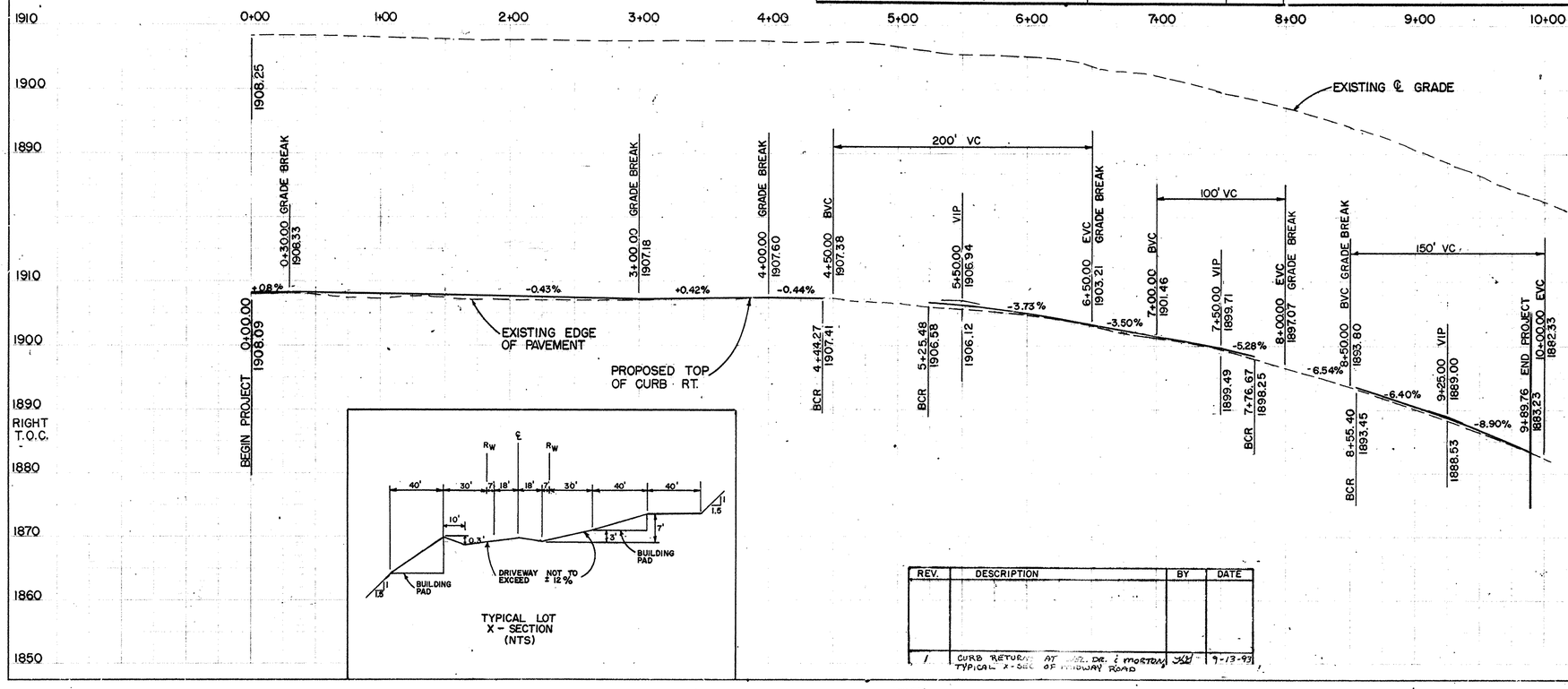
CALL BEFORE YOU DIG, 456-8000

OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE: James A. Douglas
DATE: July 28, 1992

HAHN ENGINEERING INC.	SCALE: 1"= 50'	DATE
East 55 Lincoln Rd. Suite 102 Spokane, WA. 99208 (509) 467-1550 FAX (509) 466-1729	DRAWN BY: L. REEDY	9-17-92
	CHECKED BY:	
	APPROVED BY:	

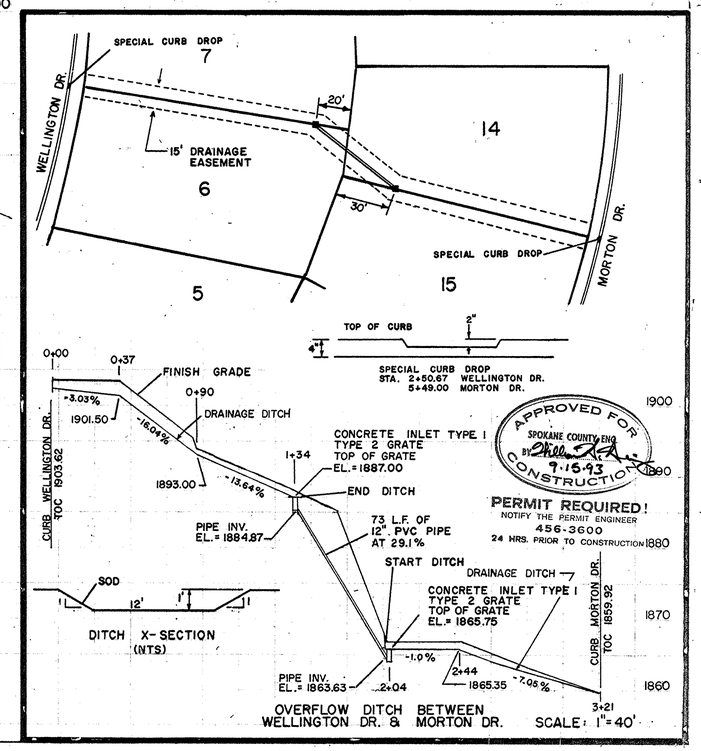
CLIENT: LANCZE DOUGLASS, East 815 Rosewood, Spokane, Washington 99208

PRJ. NAME: WELLINGTON HEIGHTS ADDITION
TITLE: MIDWAY ROAD STA. 0+00 TO 13+02.00
4 OF 7
STREET
PLOT DATE:



TYPICAL LOT X - SECTION (NTS)

REV.	DESCRIPTION	BY	DATE
1	CURB RETURN AT WELL. DR. & MORTON DR. TYPICAL X-SECT. OF MIDWAY ROAD	JKH	9-13-93



OVERFLOW DITCH BETWEEN WELLINGTON DR. & MORTON DR. SCALE: 1"=40'

PLAN: SURVEY; PLOTTED; NOTE BOOK; GRADES CHECKED; No.; STRUCTURE NOTES CHECKED; DATE
PROFILE: SURVEY; PLOTTED; NOTE BOOK; GRADES CHECKED; No.; STRUCTURE NOTES CHECKED; DATE

Keuffel & Esser Company PLATE 1, PLAN-PROFILE 487024 Made in U.S.A.

L9165-P9-9,11F

CALL BEFORE YOU DIG, 456-8000

NOTE 1: ALL SIGNS SHALL BE LOCATED AS SPECIFIED IN THE M.U.T.C.D. AND SHALL BE SPOKANE COUNTY STANDARD. INSTALL STREET NAME & STOP SIGN.

NOTE 2: TRANSITION FROM TYPE R CURB TO TYPE 2 GRATE INLET 5' EACH SIDE OF INLET.

INSTALL HANDICAP RAMPS PER SPOKANE COUNTY STANDARDS AT CENTERLINE OF RETURN (SEE SHEET 5 OF 7).

START TRANSITION FROM B CURB TO R CURB AT ECR. MINIMUM 3' TRANSITION

OVERFLOW DITCH SEE SHEET 4 OF 7

SPECIAL CURB DROP SEE SHEET 4 OF 7

15' DRAINAGE EASEMENT

STA 2+55.49, 17.36' LT. DW 3A, TYPE "B" TYPE 2 GRATE, EL=1903.13 (SEE NOTE 2)

STA 2+55.49, 17.36' RT. DW 5A, TYPE "B" TYPE 2 GRATE, EL=1903.13 (SEE NOTE 2)

STA 0+63.07, 17.36' RT DW 4A, TYPE "A" TYPE 2 GRATE, EL=1906.43 (SEE NOTE 2)

SEE PROFILE #1 FOR CUL-DE-SAC. SHT 5 OF 7.

MATCH TO EXISTING CONCRETE CURB BOTH SIDES.

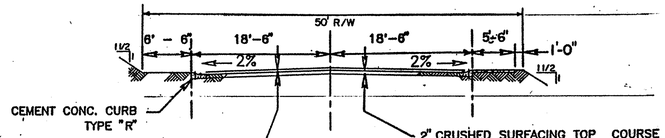
MATCH TO EXISTING ASPHALT.

WELLINGTON DRIVE

MIDWAY ROAD

RESERVOIR

GLENEDEN 6th



ROADWAY SECTION B (NTS)

CURVE DATA TABLE

CURVE #	RADIUS	LENGTH	DELTA	TANGENT
R1	20.00	24.62	70°31'52"	14.14
R2	20.00	38.06	109°02'02"	28.06
R3	20.00	37.37	107°03'26"	27.06
R4	20.00	24.21	69°21'16"	13.84
R7	20.00	24.72	70°46'55"	14.22
R8	20.00	39.32	112°39'04"	30.02
R9	10.00	24.80	142°05'32"	29.12
R10	20.00	19.85	56°52'09"	10.83
R11	20.00	18.09	51°49'09"	9.72
C6	480.00+	286.26	34°10'11"	147.53
C7	480.00	100.00	11°56'12"	50.18
C8	1005.00	240.00	13°40'57"	120.57
C10	600.00	222.46	21°14'39"	112.52
C11	600.00	291.03	27°47'30"	148.44
C9	410.00	85.42	11°56'14"	42.86

BENCHMARK
LOCATED AT S.W. CORNER OF MIDWAY SCHOOL, N. R.W. MIDWAY ROAD. CO. BM. No. 442. EL. 1908.56

SEE SHEET 2 OF 7 FOR DRYWELL INFORMATION

INSTALL HANDICAP RAMPS PER SPOKANE COUNTY STANDARDS AT CENTERLINE OF RETURN (SEE SHEET 5 OF 7)

STA 0+37.25, 17.36' LT. DW 9A, TYPE B TYPE 2 GRATE EL. 1885.91 (SEE NOTE 2)

INSTALL HANDICAP RAMP PER SPOKANE COUNTY STANDARDS AT CENTERLINE OF RETURN (SEE SHEET 5 OF 7)

SEE PROFILE #2 FOR CUL-DE-SAC SHT. 5 OF 7.

STA 1+33.09 DW 10A, TYPE "B" TYPE 2 GRATE EL. 1892.23 (SEE NOTE 2)

TUDOUR STREET

TUDOUR COURT

NEVADA

END SIDEWALK

OWNERS SIGNATURE:
I HAVE APPROVED THESE PLANS.
SIGNATURE George Douglass
DATE July 28, 1993

RANDELL G. HAHN, STATE OF WASHINGTON, 22247, REGISTERED PROFESSIONAL ENGINEER
EXPIRES 12/5/93

HAHN ENGINEERING INC. East 55 Lincoln Rd. Suite 102 Spokane, W.A. 99208 (509) 467-1550 FAX (509) 466-1729	SCALE: 1"=50'	DATE:
	DRAWN BY: L. REEDY	9-22-92
	CHECKED BY:	
	APPROVED BY:	

CLIENT: LANCZE DOUGLASS, East 815 Rosewood, Spokane, Washington 99208

PRJ. NAME: WELLINGTON HEIGHTS ADDITION

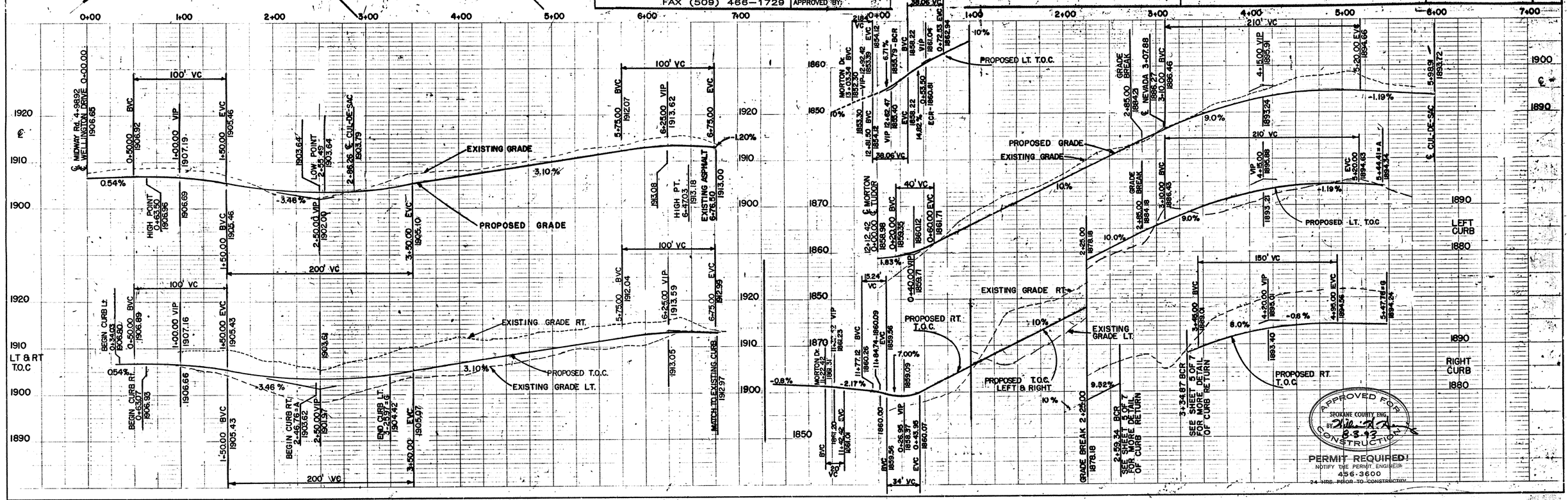
TITLE: WELLINGTON DR. STA. 0+00 TO 6+76.50
TUDOUR St & TUDOUR Ct. 0+00 TO 5+98.91

SHEET No. 3 OF 7

STREET

PLAN: SURVEYED / PLOTTED / NOTE BOOK / ALIGNMENT CHECKED / RT OF WAY CHECKED / No.

PROFILE: SURVEYED / PLOTTED / NOTE BOOK / GRADES CHECKED / B.M. VERIFIED / STRUCTURE NOTATIONS CHECKED / No.



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