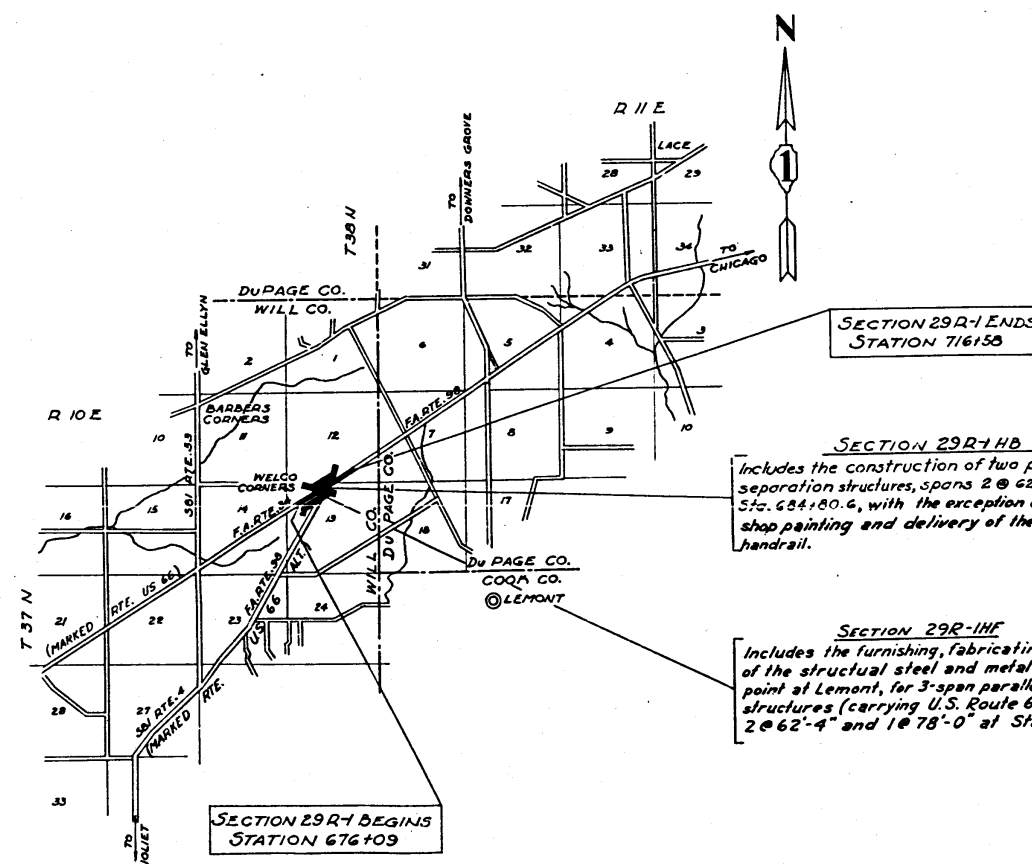
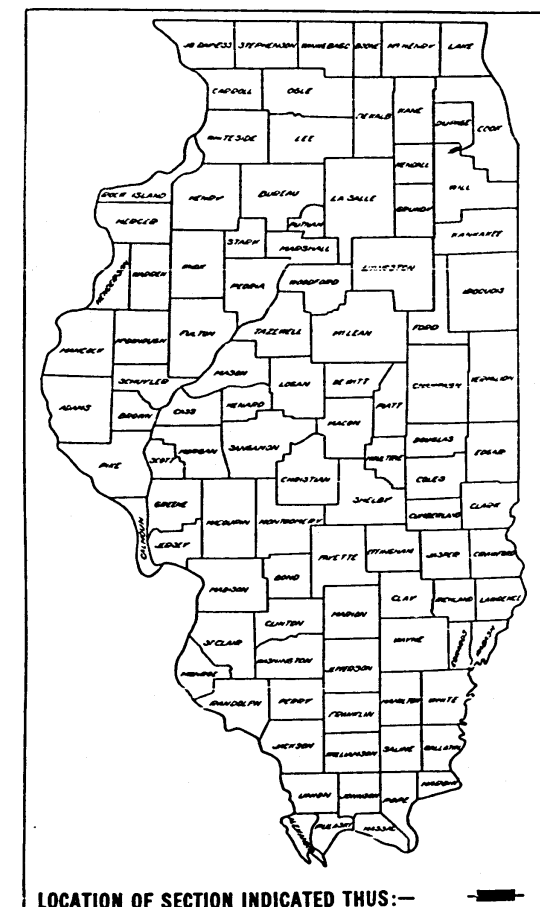


FEDERAL AID ROUTE NO.	SEC.	COUNTY	
34	29R-1, 29R-1NB 29R-1NF	WILL	6. 12.
FED ROAD DIST NO. 7	ILLINOIS	PROJECT	11-187(5)

SECTION 29R-1HF
F.A. ROUTE 34 SECTION 29R-1 & 29R-1HB
PROJECT IN-187 (5) WILL COUNTY



NET LENGTH OF IMPROVEMENT
4049 FT. 0.767 MILES

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDING
DIVISION OF HIGHWAYS

SUBMITTED March 2, 1955
R. J. Clark DISTRICT ENGINEER

EXAMINED March 11, 1955
H. J. Collins ASSISTANT ENGINEER OF DESIGN

PASSED March 11, 1955
E. J. Hunsicker CHIEF ENGINEER OF DESIGN

APPROVED March 11, 1955
B. B. Bartholomew CHIEF DISTRICT ENGINEER

APPROVED March 14, 1955
Clarkson DISTRICT

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

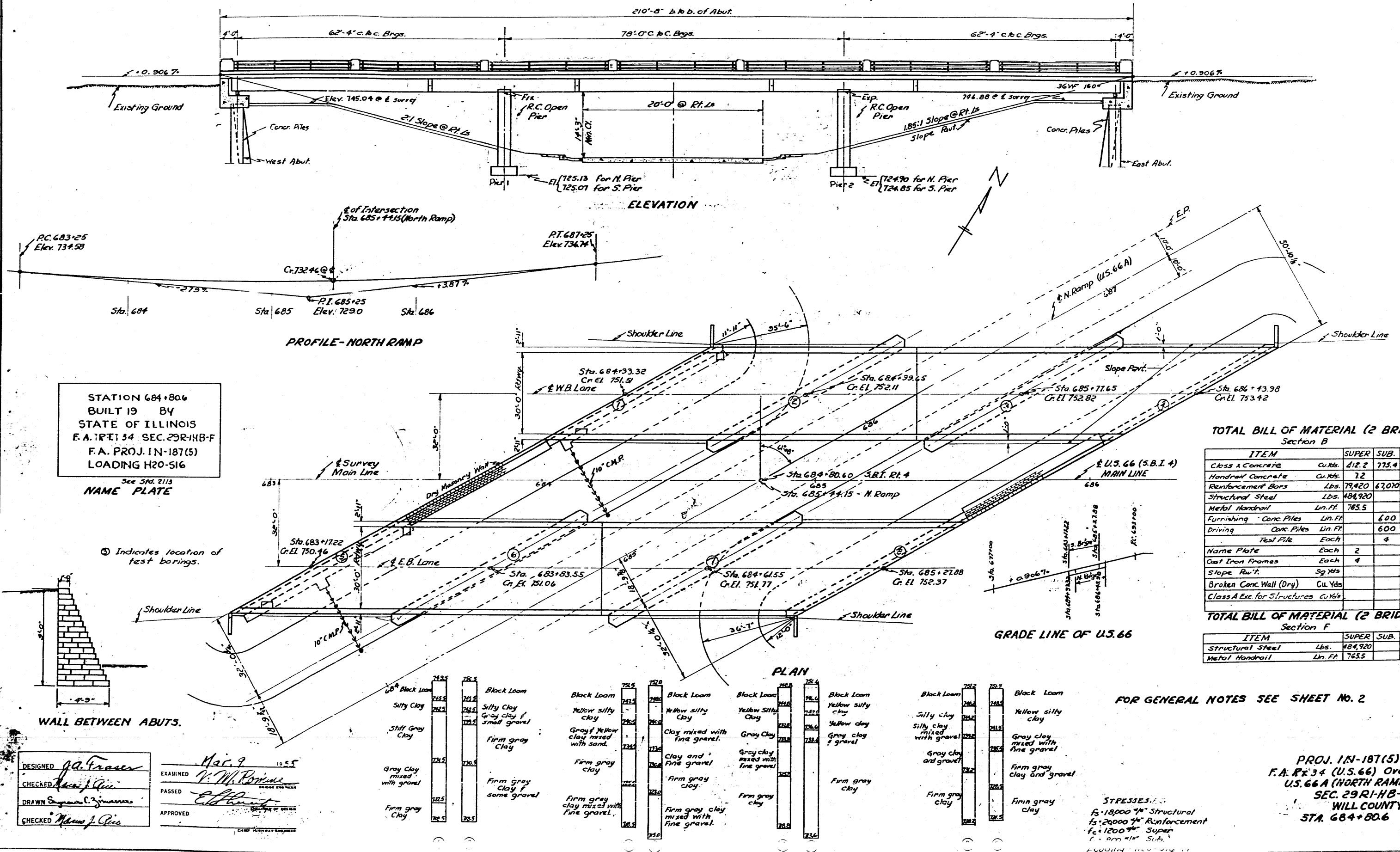
APPROVED _____
[Redacted Signature]
DISTRICT ENGINEER

DATE _____

Real 1-35
684 + 80.6
29-R1-HB

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

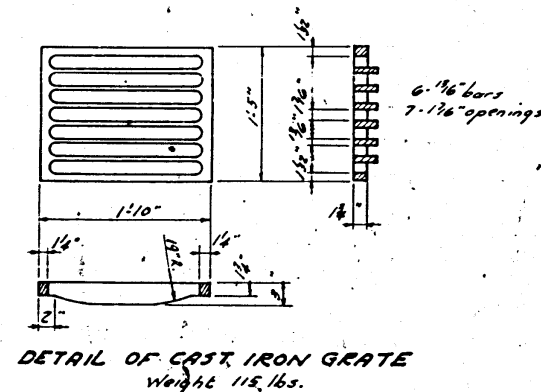
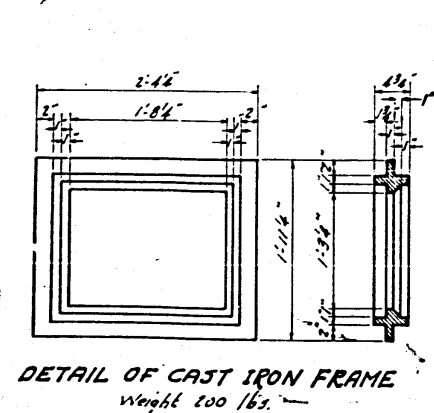
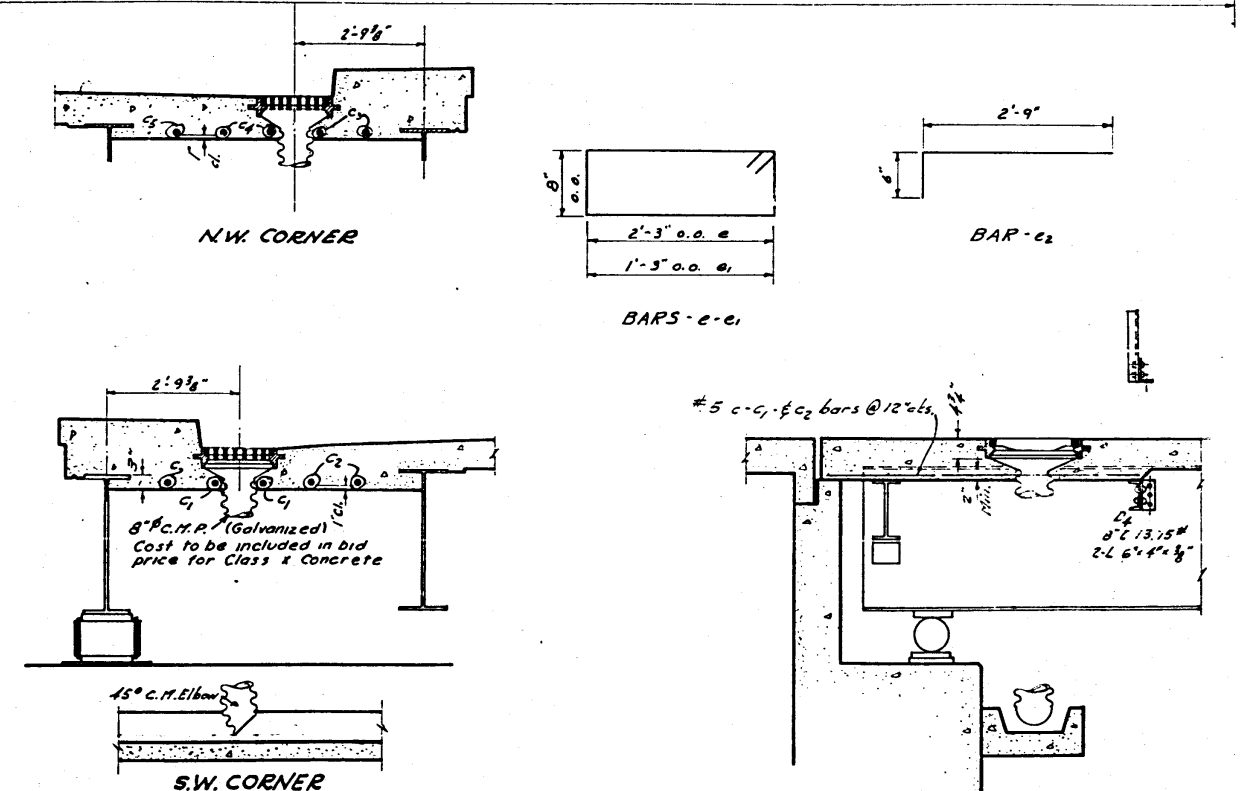
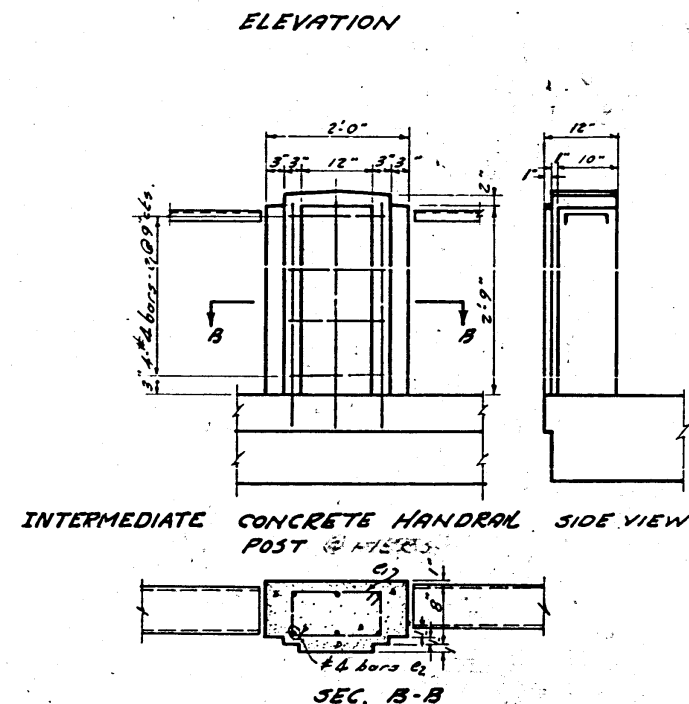
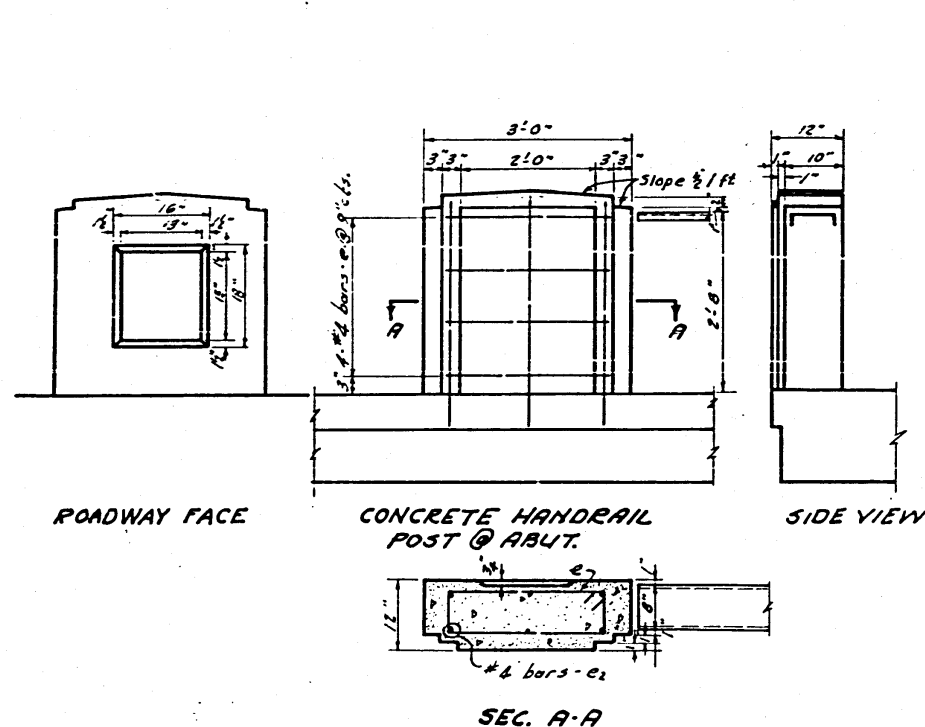
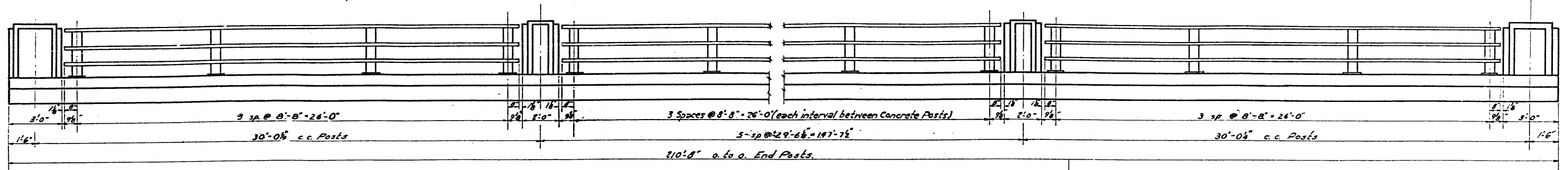
BOND ISSUE TRADE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1 10 SHEETS
FA 34 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054, 3055, 3056, 3057, 3058, 3059, 3060, 3061, 3062, 3063, 3064, 3065, 3066, 3067, 3068, 3069, 3070, 3071, 3072, 3073, 3074, 3075, 3076, 3077, 3078, 3079, 3080, 3081, 3082, 3083, 3084, 3085, 3086, 3087, 3088, 3089, 3090, 3091, 3092, 3093, 3094, 3095, 3096, 3097, 3098, 3099, 3100, 3101, 3102, 3103, 3104, 3105, 3106, 3107, 3108, 3109, 3110, 3111, 3112, 3113, 3114, 3115, 3116, 3117, 3118, 3119, 3120, 3121, 3122, 3123, 3124, 3125, 3126, 3127, 3128, 3129, 3130, 3131, 3132, 3133, 3134, 3135, 3136, 3137, 3138, 3139, 3140, 3141, 3142, 3143, 3144, 3145, 3146, 3147, 3148, 3149, 3150, 3151, 3152, 3153, 3154, 3155, 3156, 3157, 3158, 3159, 3160, 3161, 3162, 3163, 3164, 3165, 3166, 3167, 3168, 3169, 3170, 3171, 3172, 3173, 3174, 3175, 3176, 3177, 3178, 3179, 3180, 3181, 3182, 3183, 3184, 3185, 3186, 3187, 3188, 3189, 3190, 3191, 3192, 3193, 3194, 3195, 3196, 3197, 3198, 3199, 3200, 3201, 3202, 3203, 3204, 3205, 3206, 3207, 3208, 3209, 3210, 3211, 3212, 3213, 3214, 3215, 3216, 3217, 3218, 3219, 3220, 3221, 3222, 3223, 3224, 3225, 3226, 3227, 3228, 3229, 3230, 3231, 3232, 3233, 3234, 3235, 3236, 3237, 3238, 3239, 3240, 3241, 3242, 3243, 3244, 3245, 3246, 3247, 3248, 3249, 3250, 3251, 3252, 3253, 3254, 3255, 3256, 3257, 3258, 3259, 3260, 3261, 3262, 3263, 3264, 3265, 3266, 3267, 3268, 3269, 3270, 3271, 3272, 3273, 3274, 3275, 3276, 3277, 3278, 3279, 3280, 3281, 3282, 3283, 3284, 3285, 3286, 3287, 3288, 3289, 3290, 3291, 3292, 3293, 3294, 3295, 3296, 3297, 3298, 3299, 3300, 3301, 3302, 3303, 3304, 3305, 3306, 3307, 3308, 3309, 3310, 3311, 3312, 3313, 3314, 3315, 3316, 3317, 3318, 3319, 3320, 3321, 3322, 3323, 3324, 3325, 3326, 3327, 3328, 3329, 3330, 3331, 3332, 3333, 3334, 3335, 3336, 3337, 3338, 3339, 3340, 3341, 3342, 3343, 3344, 3345, 3346, 3347, 3348, 3349, 3350, 3351, 3352, 3353, 3354, 3355, 3356, 3357, 3358, 3359, 3360, 3361, 3362, 3363, 3364, 3365, 3366, 3367, 3368, 3369, 3370, 3371, 3372, 3373, 3374, 3375, 3376, 3377, 3378, 3379, 3380, 3381, 3382, 3383, 3384, 3385, 3386, 3387, 3388, 3389, 3390, 3391, 3392, 3393, 3394, 3395, 3396, 3397, 3398, 3399, 3400, 3401, 3402, 3403, 3404, 3405, 3406, 3407, 3408, 3409, 3410, 3411, 3412, 3413, 3414, 3415, 3416, 3417, 3418, 3419, 3420, 3421, 3422, 3423, 3424, 3425, 3426, 3427, 3428, 3429, 3430, 3431, 3432, 3433, 3434, 3435, 3436, 3437, 3438, 3439, 3440, 3441, 3442, 3443, 3444, 3445, 3446, 3447, 3448, 3449, 3450, 3451, 3452, 3453, 3454, 3455, 3456, 3457, 3458, 3459, 3460, 3461, 3462, 3463, 3464, 3465, 3466, 3467, 3468, 3469, 3470, 3471, 3472, 3473, 3474, 3475, 3476, 3477, 3478, 3479, 3480, 3481, 3482, 3483, 3484, 3485, 3486, 3487, 3488, 3489, 3490, 3491, 3492, 3493, 3494, 3495, 3496, 3497, 3498, 3499, 3500, 3501, 3502, 3503, 3504, 3505, 3506, 3507, 3508, 3509, 3510, 3511, 3512, 3513, 3514, 3515, 3516, 3517, 3518, 3519, 3520, 3521, 3522, 3523, 3524, 3525, 3526, 3527, 3528, 3529, 3530, 3531, 3532, 3533, 3534, 3535, 3536, 3537, 3538, 3539, 3540, 3541, 3542, 3543, 3544, 3545, 3546, 3547, 3548, 3549, 3550, 3551, 3552, 3553, 3554, 3555, 3556, 3557, 3558, 3559, 3560, 3561, 3562, 3563, 3564, 3565, 3566, 3567, 3568, 3569, 3570, 3571, 3572, 3573, 3574, 3575, 3576, 3577, 3578, 3579, 3580, 3581, 3582, 3583, 3584, 3585, 3586, 3587, 3588, 3589, 3590, 3591, 3592, 3593, 3594, 3595, 3596, 3597, 3598, 3599, 3600, 3601, 3602, 3603, 3604, 3605, 3606, 3607, 3608, 3609, 3610, 3611, 3612, 3613, 3614, 3615, 3616, 3617, 3618, 3619, 3620, 3621, 3622, 3623, 3624, 3625, 3626, 3627, 3628, 3629, 3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637, 3638, 3639, 3640, 3641, 3642, 3643, 3644, 3645, 3646, 3647, 3648, 3649, 3650, 3651, 3652, 3653, 3654, 3655, 3656, 3657, 3658, 3659, 3660, 3661, 3662, 3663, 3664, 3665, 3666, 3667, 3668, 3669, 3670, 3671, 3672, 3673, 3674, 3675, 3676, 3677, 3678, 3679, 3680, 3681, 3682, 3683, 3684, 3685, 3686, 3687, 3688, 3689, 3690, 3691, 3692, 3693, 3694, 3695, 3696, 3697, 3698, 3699, 3700, 3701, 3702, 3703, 3704, 3705, 3706, 3707, 3708, 3709, 3710, 3711, 3712, 3713, 3714, 3715, 3716, 3717, 3718, 3719, 3720, 3721, 3722, 3723, 3724, 3725, 3726, 3727, 3728, 3729, 3730, 3731, 3732, 3733, 3734, 3735, 3736, 3737, 3738, 3739, 3740, 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3748, 3749, 3750, 3751, 3752, 3753, 3754, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3766, 3767, 3768, 3769, 3770, 3771, 3772, 3773, 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889, 3890, 3891, 3892, 3893, 3894, 3895, 3896, 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925, 3926, 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955, 3956, 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3986, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045, 4046, 4047, 4048, 4049, 4050, 4051, 4052, 4053, 4054, 4055, 4056, 4057, 4058, 4059, 4060, 4061, 4062, 4063, 4064, 4065, 4066, 4067, 4068, 4069, 4070, 4071, 4072, 4073, 4074, 4075, 4076, 4077, 4078, 4079, 4080, 4081, 4082, 4083, 4084, 4085, 4086, 4087, 4088, 4089, 4090, 4091, 4092, 4093, 4094, 4095, 4096, 4097, 4098, 4099, 4100, 4101, 4102, 4103, 4104, 4105, 4106, 4107, 4108, 4109, 4110, 4111, 4112, 4113, 4114, 4115, 4116, 4117, 4118, 4119, 4120, 4121, 4122, 4123, 4124, 4125, 4126, 4127, 4128, 4129, 4130, 4131, 4132, 4133, 4134, 4135, 4136, 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4145, 4146, 4147, 4148, 4149, 4150, 4151, 4152, 4153, 4154, 4155, 4156, 4157, 4158, 4159, 4160, 4161, 4162, 4163, 4164, 4165, 4166, 4167, 4168, 4169, 4170, 4171, 4172, 4173, 4174, 4175, 4176, 4177, 4178, 4179, 4180, 4181, 4182, 4183, 4184, 4185, 4186, 4187, 4188, 4189, 4190, 4191, 4192, 4193, 4194, 4195, 4196, 4197, 4198, 4199, 4200, 4201, 4202, 4203, 4204, 4205, 4206, 4207, 4208, 4209, 4210, 4211, 4212, 4213, 4214, 4215, 4216, 4217, 4218, 4219, 4220, 4221, 4222, 4223, 4224, 4225, 4226, 4227, 4228, 4229, 4230, 4231, 4232, 4233, 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255, 4256, 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285, 4286, 4287, 4288, 4289, 4290, 4291, 4292, 4293, 4294, 4295, 4296, 4297, 4298, 4299, 4300, 4301, 4302, 4303, 4304, 4305, 4306, 4307, 4308, 4309, 4310, 4311, 4312, 4313, 4314, 4315, 4316, 4317, 4318, 4319, 4320, 4321, 4322, 4323, 4324, 4325, 4326, 4327, 4328, 4329, 4330, 4331, 4332, 4333, 4334, 4335, 4336, 4337, 4338, 4339, 4340, 4341, 4342, 4343, 4344, 4345, 4346, 4347, 4348, 4349, 4350, 4351, 4352, 4353, 4354, 4355, 4356, 4357, 4358, 4359, 4360, 4361, 4362, 4363, 4364, 4365, 4366, 4367, 4368, 4369, 4370, 4371, 4372, 4373, 4374, 4375, 4376, 4377, 4378, 4379, 4380, 4381, 4382, 4383, 4384, 4385, 4386, 4387, 4388, 4389, 4390, 4391, 4392, 4393, 4394, 4395, 4396, 4397, 4398, 4399, 4400, 4401, 4402, 4403, 4404, 4405, 4406, 4407, 4408, 4409, 4410, 4411, 4412, 4413, 4414, 4415, 4416, 4417, 4418, 4419, 4420, 4421, 4422, 4423, 4424, 4425, 4426, 4427, 4428, 4429, 4430, 4431, 4432, 4433, 4434, 4435, 4436, 4437, 4438, 4439, 4440, 4441, 4442, 4443, 4444, 4445, 4446, 4447, 4448, 4449, 4450, 4451, 4452, 4453, 4454, 4455, 4456, 4457, 4458, 4459, 4460, 4461, 4462, 4463, 4464, 4465, 4466, 4467, 4468, 4469, 4470, 4471, 4472, 4473, 4474, 4475, 4476, 4477, 4478, 4479, 4480, 4481, 4482, 4483, 4484, 4485, 4486, 4487, 4488, 4489, 4490, 4491, 4492, 4493, 4494, 4495, 4496, 4497, 4498, 4499, 4500, 4501, 4502, 4503, 4504, 4505, 4506, 4507, 4508, 4509, 4510, 4511, 4512, 4513, 4514, 4515, 4516, 4517, 4518, 4519, 4520, 4521, 4522, 4523, 4524, 4525, 4526, 4527, 4528, 4529, 4530, 4531, 4532, 4533, 4534, 4535, 4536, 4537, 4538, 4539, 4540, 4541, 4542, 4543, 4544, 4545, 4546, 4547, 4548, 4549, 4550, 4551, 4552, 4553, 4554, 4555, 4556, 4557, 4558, 4559, 4560, 4561, 4562, 4563, 4564, 4565, 4566, 4567, 4568, 4569, 4570, 4571, 4572, 4573, 4574, 4575, 4576, 4577, 4578, 4579, 4580, 4581, 4582, 4583, 4584, 4585, 4586, 4587, 4588, 4589, 4590, 4591, 4592, 4593, 4594, 4595, 4596, 4597, 4598, 4599, 4600, 4601, 4602, 4603, 4604, 4605, 4606, 4607, 4608, 4609, 4610, 4611, 4612, 4613, 4614, 4615, 4616, 4617, 4618, 4619, 4620, 4621, 4622, 4623, 4624, 4625, 4626, 4627, 4628, 4629, 4630, 4631, 4632, 4633, 4634, 4635, 4636, 4637, 4638, 4639, 4640, 4641, 4642, 4643, 4644, 4645, 4646, 4647, 4648, 4649, 4650, 4651, 4652, 4653, 4654, 4655, 4656, 4657, 4658, 4659, 4660, 4661, 4662, 4663, 4664, 4665, 4666, 4667, 4668, 4669, 4670, 4671, 4672, 4673, 4674, 4675, 4676, 4677, 4678, 4679, 4680, 4681, 4682, 4683, 4684, 4685, 4686, 4687, 4688, 4689, 4690, 4691, 4692, 4693, 4694, 4695, 4696, 4697, 4698, 4699, 4700, 4701, 4702, 4703, 4704, 4705, 4706, 4707, 4708, 4709, 4710, 4711, 4712, 4713, 4714, 4715, 4716, 4717, 4718, 4719, 4720, 4721, 4722, 4723, 4724, 4725, 4726, 4727, 4728, 4729, 4730, 4731, 4732, 4733, 4734, 4735, 4736, 4737, 4738, 4739, 4740, 4741, 4742, 4743, 4744, 4745, 4746, 4747, 4748, 4749, 4750, 4751, 4752, 4753, 4754, 4755, 4756, 4757, 4758, 4759, 4760, 4761, 4762, 4763, 4764, 4765, 4766, 4767, 4768, 4769, 4770, 4771, 4772, 4773, 4774, 4775, 4776, 4777, 4778, 4779, 4780, 4781, 4782, 4783, 4784, 4785, 4786, 4787, 4788, 4789, 4790, 4791, 4792, 4793, 4794, 4795, 4796, 4797, 4798, 4799, 4800, 4801, 4802, 4803, 4804, 4805, 4806, 4807, 4808, 4809, 4810, 4811, 4812, 4813, 4814, 4815, 4816, 4817, 4818, 4819, 4820, 4821, 4822, 4823, 4824, 4825, 4826, 4827, 4828, 4829, 4830, 4831, 4832, 4833, 4834, 4835, 4836, 4837, 4838, 4839, 4840, 4841, 4842, 4843, 4844, 4845, 4846, 4847, 4848, 4849, 4850, 4851, 4852, 4853, 4854, 4855, 4856, 4857, 4858, 4859, 4860, 4861, 4862, 4863, 4864, 4865, 4866, 4867, 4868, 4869, 4870, 4871, 4872, 4873, 4874, 4875, 4876, 4877, 4878, 4879, 4880, 4881, 4882, 4883, 4884, 4885, 4886, 4887, 4888, 4889, 4890, 4891, 4892, 4893, 4894, 4895, 4896, 4897, 4898, 4899, 4900, 4901, 4902, 4903, 4904, 4905, 4906, 4907, 4908, 4909, 4910, 4911, 4912, 4913, 4914, 4915, 4916, 4917, 4918, 4919, 4920, 4921, 4922, 4923, 4924, 4925, 4926, 4927, 4928, 4929, 4930, 4931, 4932, 4933, 4934, 4935, 4936, 4937, 4938, 4939, 4940, 4941, 4942, 4943, 4944, 4945, 4946, 4947, 4948, 4949, 4950, 4951, 4952, 4953, 4954, 4955, 4956, 4957, 4958, 4959, 4960, 4961, 4962, 4963, 4964, 4965, 4966, 4967, 4968, 4969, 4970, 4971, 4972, 4973, 4974, 4975, 4976, 4977, 4978, 4979, 4980, 4981, 4982, 4983, 4984, 4985, 4986, 4987, 4988, 4989, 4990, 4991, 4992, 4993, 4994, 4995, 4996, 4997, 4998, 4999, 5000, 5001, 5002, 5003, 5004, 5005, 5006, 5007, 5008, 5009, 5010, 5011, 5012, 5013, 5014, 5015, 5016, 5017, 5018, 5019, 5020, 5021, 5022, 5023, 5024, 5025, 5026, 5027, 5028, 5029, 5030, 5031, 5032, 5033, 5034, 5035, 5036, 5037, 5038,					



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FA 34	291-291-10	Will	65	17	4
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

SHEET NO. 2
10 SHEETS



GENERAL NOTES

Class 1 Concrete shall be used throughout, except as noted. Concrete floor shall be finished in accordance with Art. 51.2 of the Standard Specifications, and shall be poured in continuous operation within limits of construction.

Boring data are shown only as a guide to bidders in estimating soil conditions which may be encountered at the work.

All connections shall be riveted, except as noted. Rivets shall be $\frac{3}{4}$ " and holes $\frac{1}{2}$ ", except as noted.

All holes for splices shall be punched $\frac{1}{8}$ " and reamed to proper size ($\frac{1}{8}$ " in web and $\frac{1}{4}$ " in flange) with all stringers assembled in shop in proper position with or without diaphragms in place. Leave assembled in shop for inspection.

All rollers, jacking, bearing plates, lead plates, and anchor bolts shall be finished, painted, and set in accordance with Art. 51.4 of the standard specifications and are included for payment as structural steel. Estimated weight 9350 lbs.

Structural steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. All paint to be furnished and applied by the contractor involved.

Anchor bolts shall be set before placing diaphragms over abutments and piers.

Welding shall comply with Art. 65.4 of the Standard Specifications.

The Contractor shall drive four test piles in permanent location, as directed by the Engineer.

The Concrete Gutter shall be paid for in Cu. Yds. Class 1 Concrete and for its reinforcement bars. Quantities have been included in those shown for abutments.

All Metal Rail, including rail post anchors, is included for payment as Metal Handrail. See Special Provisions, Art. 10.

BILL OF MATERIAL - ONE BRIDGE

Bar	No.	Size	Length	Shape
e	16	#4	6'-9"	□
e ₁	48	#4	4'-9"	□
e ₂	96	#4	3'-3"	□
Handrail Concrete				Cu. Yds. 3.6
Reinforcement Bars				Lbs. 430
Metal Handrail				Lin. Ft. 3875

PROJ. IN-187(5)
F.A.R. 34 (U.S. 66) OVER
U.S. 66 A (NORTH RAMP)
SEC. 291-HB-F
WILL COUNTIES
C.D. 604-100-6

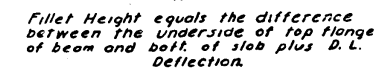
DESIGNED	J. A. Fraser	EXAMINED	Mar. 7 1955 V. M. R. R. R.
CHECKED	W. M. R. R. R.	PASSED	C. R. R. R.
DRAWN	W. M. R. R. R.	APPROVED	C. R. R. R.
CHECKED	M. J. R.		

CHIEF HIGHWAY ENGINEER

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
FA34	29A, 29B, 29C 29A, 29B, 29C	Will	65 12	50 5	SHEET NO 3 10 SHEETS
FOR BOND DIST ON 3		ILLINOIS	FED AID PROJECT -		



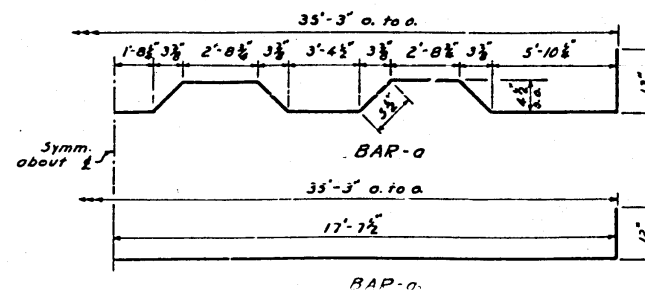
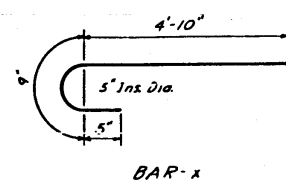
CROSS SECTION



DETAILS
SHOWING IMBEDDING
OF I-BEAMS IN SLAB

SUPERSTRUCTURE BILL OF MATERIAL ONE BRIDGE				
BAR	NO.	SIZE	LENGTH	SHAPE
a	117	#5	38'-6"	~~~~~
a ₁	332	#5	35'-6"	———
a ₂	100	#5	37'-3"	L
b	184	#5	28'-3"	———
b ₁	92	#6	22'-3"	———
b ₂	360	#4	27'-0"	———
b ₃	48	#4	29'-0"	———
b ₄	36	#4	23'-9"	———
b ₅	48	#4	9'-9"	———
d	400	#4	1'-0"	———
d ₁	100	#4	2'-9"	———
e	140	#5	6'-0"	C
c	1	#5	15'-3"	———
c ₁	2	#5	9'-6"	———
c ₂	2	#5	5'-9"	———
c ₃	2	#5	7'-0"	———
c ₄	2	#5	10'-9"	———
c ₅	1	#5	18'-6"	———
Class x Concrete			Cu Yds.	206.1
Reinforcement Bars			Lbs.	39,280.0
Structural Steel			Lbs.	242,460.0
C.I. Frames			Sq.	2

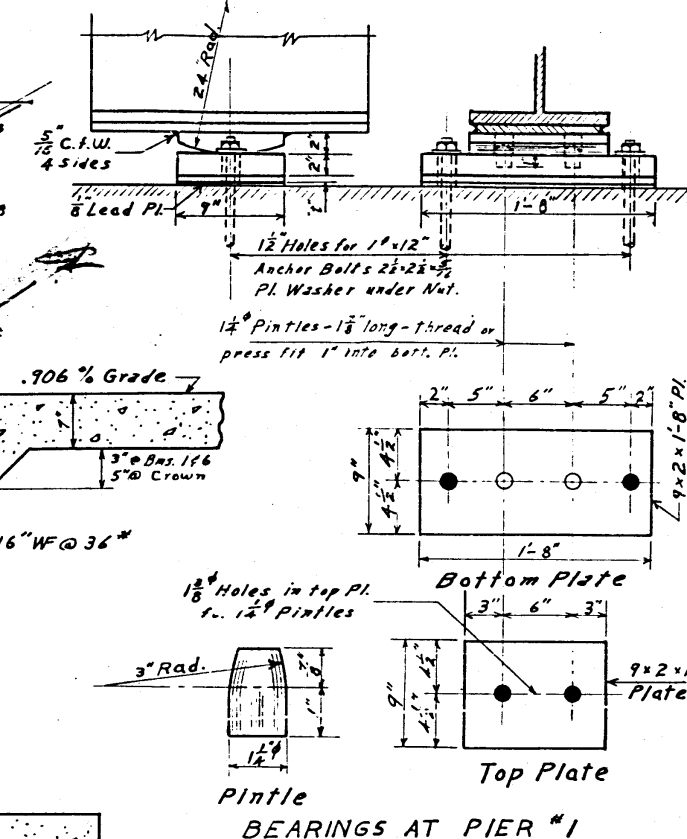
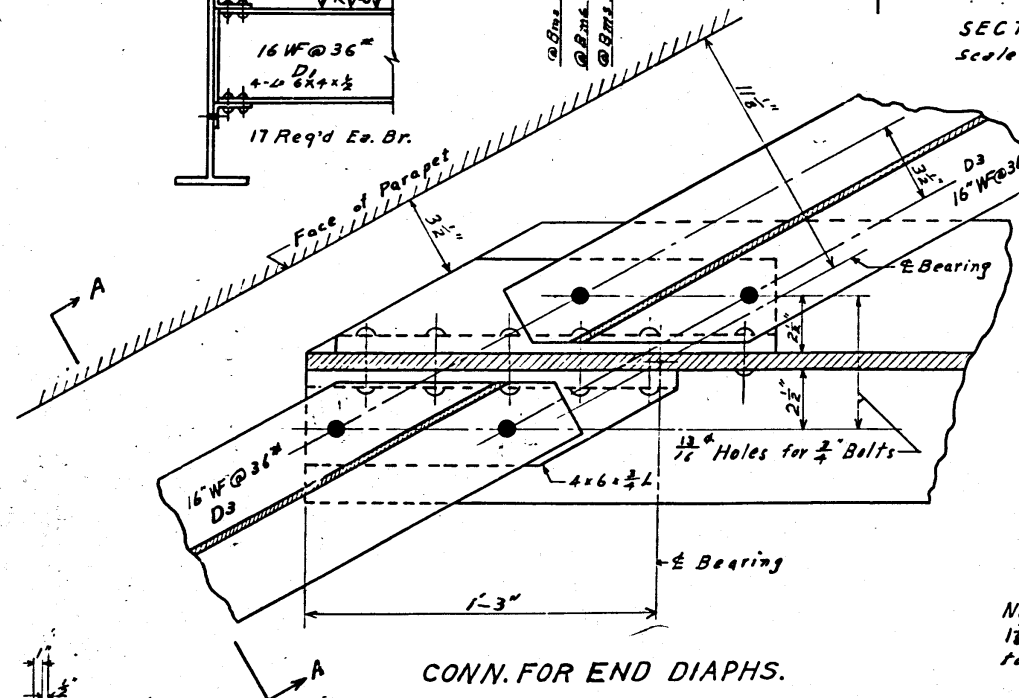
Mar. 9 12 55
EXAMINED V. M. Rogers
PASSED E. L. H.
APPROVED _____
ENGINEER



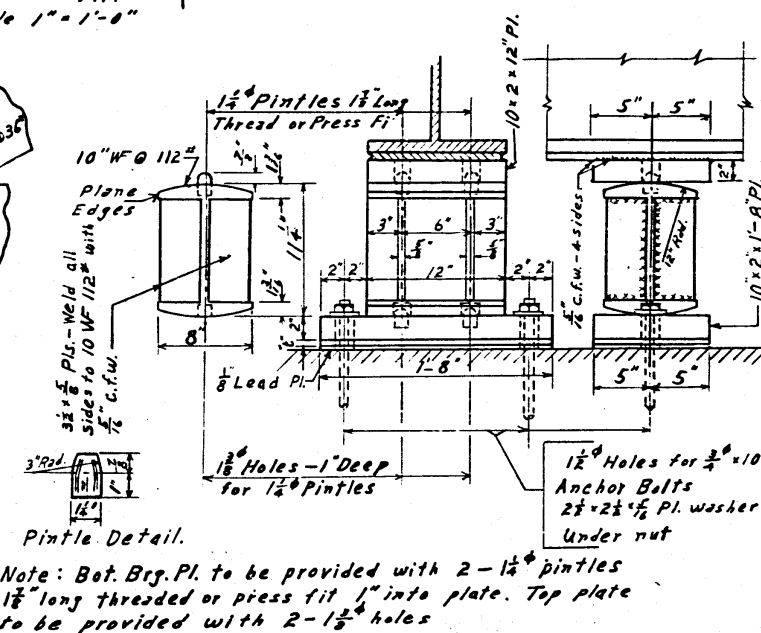
PROJ. IN-187(5)
F.A.R.T. 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29RHHB-F
WILL COUNTY

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 34	29R-1, 29R-1NB, 29R-1NF	Will	65 12	51 6
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT.		

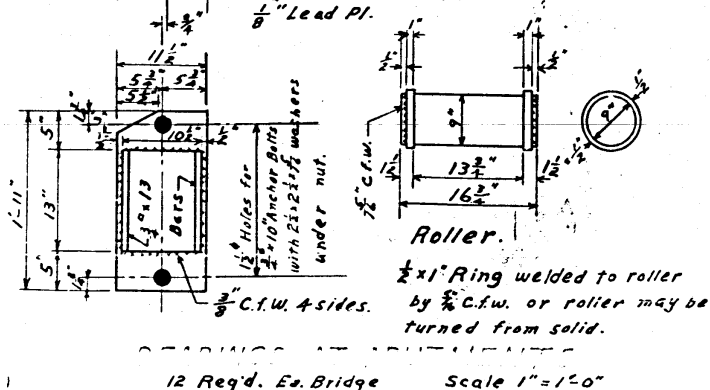
SHEET NO. 4
10 SHEETS


$$Scq/e: \frac{1}{6}'' = 1'-0''$$


Scale: 3" = 1'-0"



6 Req'd. Each Bridge



12 Reg'd. Ea. Bridge Scale 1" = 1'-0"

PROJ. IN-187(5)
F.R.T. 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29RI-HB-F
WILL COUNTY

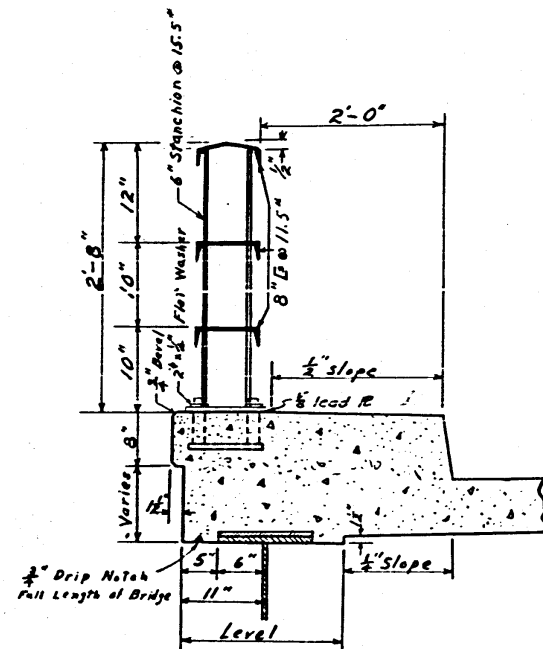
DESIGNED *Jo Fraser*
CHECKED *Jo Fraser*
DRAWN *Jo F.* R.W.
T
CHECKED *M. P.*

Mar. 9 1955
EXAMINED *V. M. Kozier*
PASSED *E. J. Hunt*
APPROVED

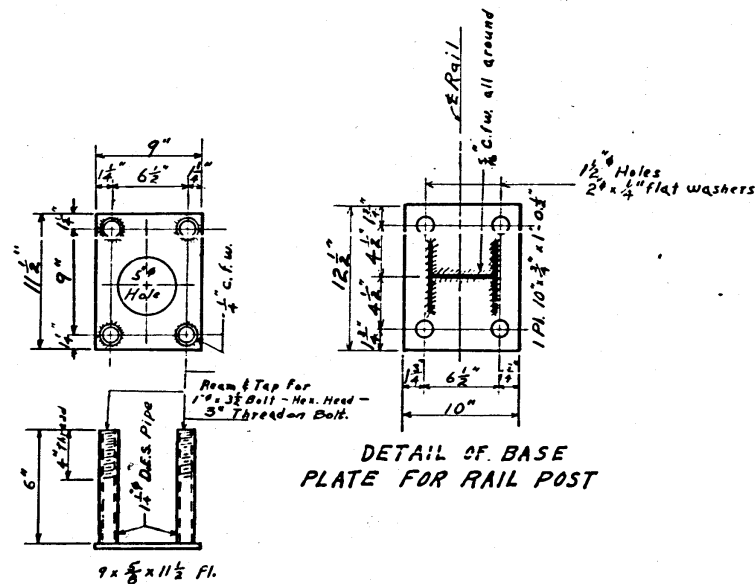
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 34	29R-127H-B	Will	55	53
	29R-11P		12	7
FED. ROAD DIST. NO. 7	KLINGMAN	FED. AID PROJECT		

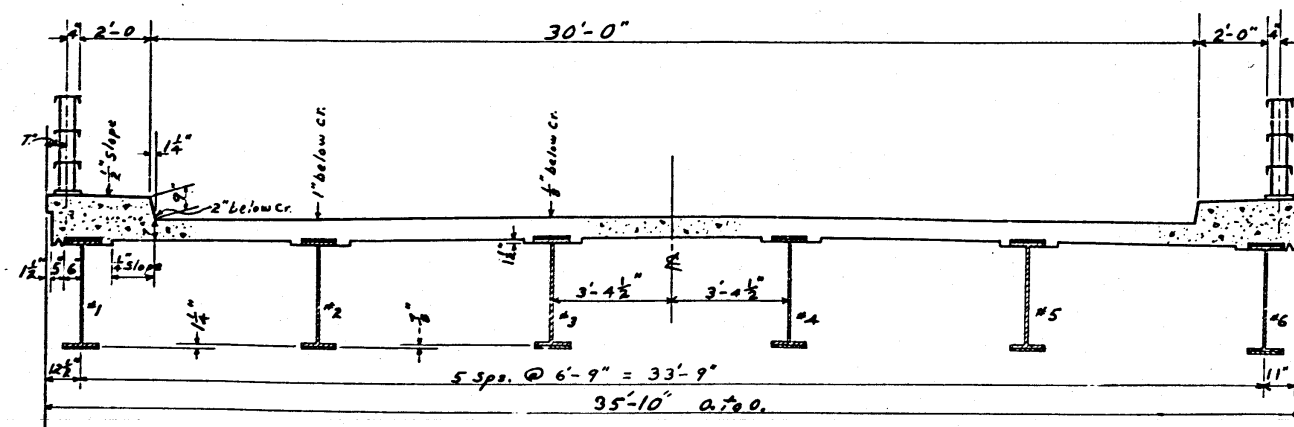
SHEET NO. 5
10 SHEETS



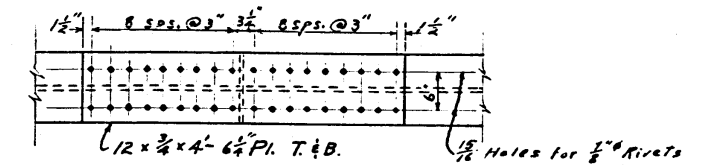
SECTION SHOWING
HANDRAIL & SIDEWALK
Scale: 1" = 1'-0"



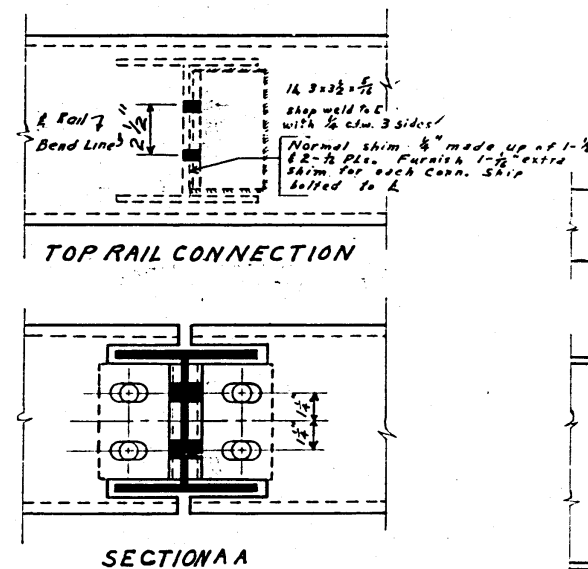
ANCHOR BOLTS FOR
HANDRAIL POST



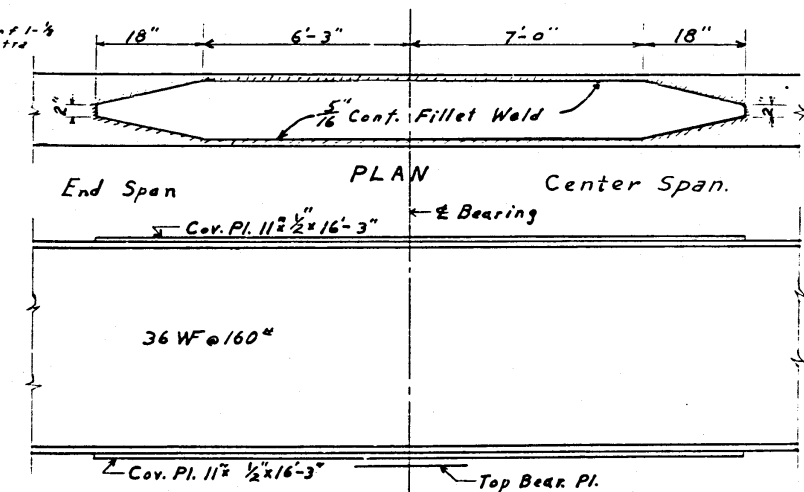
TYPICAL CROSS SECTION
Scale: 1" = 1'-0"



BEAM SPLICE



SECTION A



ELEVATION

DETAIL OF COVER PLATE AT PIERS

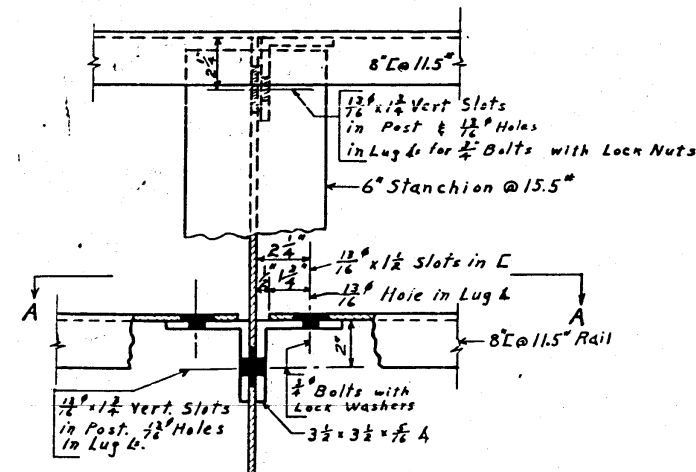
Scale: 1/2" = 1'-0"

TABLE OF 1/2" DIMENSIONS
NORTH BRIDGE

Beam No.	1	2	3	4	5	6
W. Abut.	0	0	0	0	0	0
Pier #1	0	0	0	0	0	0
Pier #2	0	0	0	0	0	0
E. Abut.	0	0	0	0	0	0

SOUTH BRIDGE

Beam No.	1	2	3	4	5	6
W. Abut.	1/2	1/2	0	0	0	0
Pier #1	1/2	1/2	0	0	0	0
Pier #2	1/2	1/2	0	0	0	0
E. Abut.	1/2	1/2	0	0	0	0



HANDRAIL DETAILS
Scale: 1" = 1'-0"

DESIGNED	JA Fraser	1965
CHECKED	Marion J. Quinn	
DRAWN	JA F	A.W.H.
CHECKED	M.P.R.	
EXAMINED	M.P.R.	
PASSED	E.P. Hunsley	
APPROVED		

PROJ. IN-187(5)
F.A.R. 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29R-11B-F
WILL COUNTY
STA. 684+80.6

BOND ISSUE SOURCE NO.	SHEET NO.	COUNTY	TOTAL SHEETS	SHEET NO.
FA 34	29R-12R WA 29R-1NF W.H.		65 12	53 8
FED ROAD DIST. NO. 7	RLTNOS	FED. AID PROJECT-		

BM #6 S. Bridge
BM #1 N. Bridge

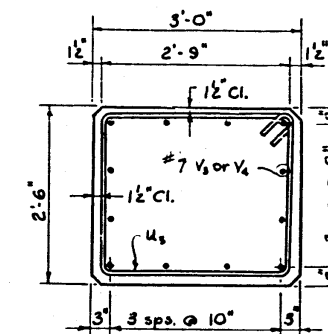
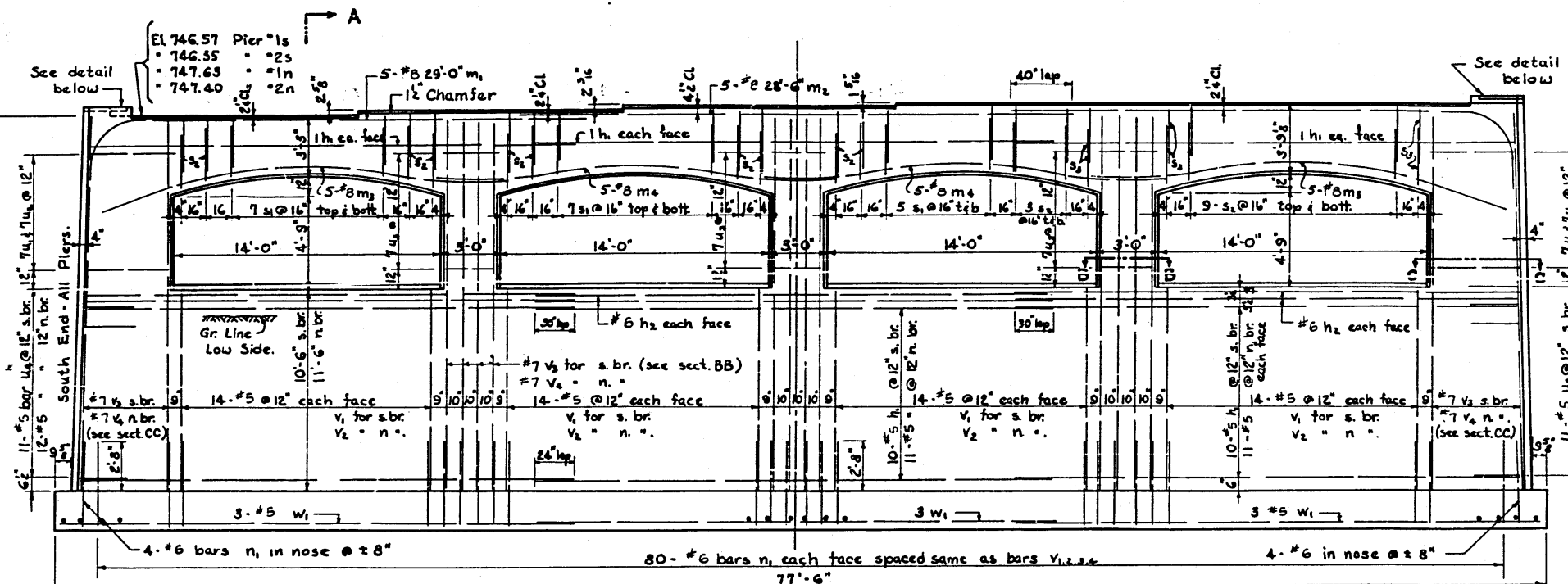


Diagram of a rectangular opening with dimensions and reinforcement details:

- Overall width: 4'-0"
- Overall height: 2'-6"
- Top reinforcement: 12" CL (centerline)
- Bottom reinforcement: 12" CL (centerline)
- Left side reinforcement: V_3 or V_4
- Right side reinforcement: $\#7 V_3$ or V_4
- Internal reinforcement: U_1 and U_2
- Reinforcement spacing: 6 sps. @ $\pm 8"$
- Reinforcement location: 4'-10" $\pm$ @ Bottom of Opening

SECTION AA

El. 725.07	Pier #1 s
" 724.85	" #2 s
" 725.13	" #1 n
" 724.90	" #2 n



Hand-drawn cross-section diagram of a rectangular reinforced concrete beam. The beam has a total width of 3' and a total height of 2'6". The top reinforcement consists of 5 bars with a diameter of 1/2 inch, labeled "#5 bars w. 1/2\"". The bottom reinforcement consists of 18 bars with a diameter of 1/2 inch, labeled "18 - #5 bars t. @ 12\" cts.". The diagram shows the beam with its reinforcement bars and a central vertical line indicating the center of gravity.

PLAN
Top of Piers
 $1\frac{1}{2} \times 2$

Note:
Other end Symm.
by rotation.

The plan view shows a rectangular pier with a width of 2'-6" and a length of 3'-0". A girder is shown passing through the pier, with a width of 4'-0" and a length of 7'-0". The girder is labeled "Girder" and has a "Brig. Pl." (Bridge Plate) at its end. The pier is labeled "Top of Piers" and has a note "Other end Symm. by rotation." The girder is shown at an angle to the pier, with a dimension of 12° 52' indicated. The pier is also labeled "1'-3" and "1'-3" on its right side.

2'-3"

2'-8"

2'-11"

3'-2"

BARS S₁, S₂ & S₃

BARS s_1, s_2 & s_3

Diagram of BAR m1 showing a horizontal section of 23'-6" and a vertical section of 5'-0", with a 90-degree angle indicated.

2'-3"
2'-9"
BAR U3

BAR U3

BAR U1

 $2'-6''$

BAR	Pr. H ₂ S bar each	Pr. H ₂ S bar each	SIZE	LENGTH	SHAPE
h ₁	69	75	# 5	26'-0"	—
h ₂	12	12	# 6	26'-6"	—
m ₁	10	10	# 8	29'-0"	—
m ₂	5	5	# 8	28'-6"	—
m ₃	10	10	# 8	21'-3"	—
m ₄	10	10	# 8	20'-3"	—
n ₁	168	168	# 6	5'-6"	—
s ₁	38	38	# 5	7'-6"	□
s ₂	44	44	# 5	8'-0"	□
s ₃	6	6	# 5	8'-6"	□
z ₁	78	78	# 5	8'-0"	—
u ₁	14	14	# 5	8'-6"	□
u ₂	14	14	# 5	8'-6"	□
u ₃	21	21	# 5	10'-9"	□
u ₄	22	24	# 5	7'-6"	□
v ₁	112	~	# 5	10'-3"	—
v ₂	~	112	# 5	11'-3"	—
v ₃	72	~	# 7	19'-3"	—
v ₄	~	72	# 7	20'-3"	—
w ₁	9	9	# 5	27'-0"	—

MATERIAL		Piers 7'x2' South Br. Each	Piers 7'x4' North Br. Each
Class 1 Concrete	Cu.Yds.	148.1	155.1
Reinforcement Bars	Lbs.	12,300	12,740

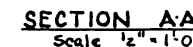
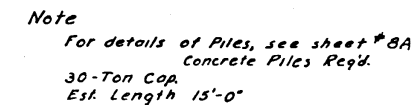
PROJ. IN-187(5)
F.A. RT 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29RI-HB-F
WILL COUNTY

DESIGNED *JA Fraser*
CHECKED *J. Prie*
DRAWN *JA F* **MBC**
CHECKED *M. I. R.*

Mar 9 10 50
EXAMINED *V. M. Pomeroy*
PASSED *E. J. Hunt*
APPROVED
ENGINEER OF DESIGN

BOND ISSUE ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 34	29A, 29B, 112 29C, 113 29D, 114	ILLINOIS	65 12	54 9
FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT.	

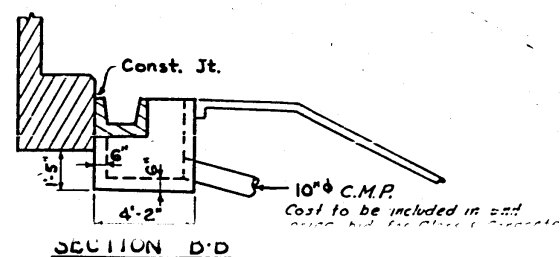
SHEET NO 7
10 SHEETS



BAR	No.	Size	Length	SHAPE
h ₃	4	#5	6'-6"	—
h ₄	16	#5	9'-0"	—
h ₈	9	#5	27'-3"	—
h ₉	1	#4	10'-9"	[]
f	69	#4	4'-6"	—
f ₁	4	#4	18'-3"	—
f ₂	4	#4	17'-9"	—
P	30	#8	28'-0"	—
s ₄	19	#5	11'-3"	[]
s ₅	18	#5	11'-9"	[]
s ₆	27	#5	12'-3"	[]
s ₇	1	#5	10'-9"	[]
s ₈	1	#5	9'-3"	[]
v ₅	3	#5	5'-6"	—
v ₆	9	#5	6'-9"	—
v ₇	4	#5	8'-0"	—
v ₈	7	#5	6'-6"	—
v ₉	62	#5	6'-0"	—
v ₁₀	4	#5	8'-6"	—

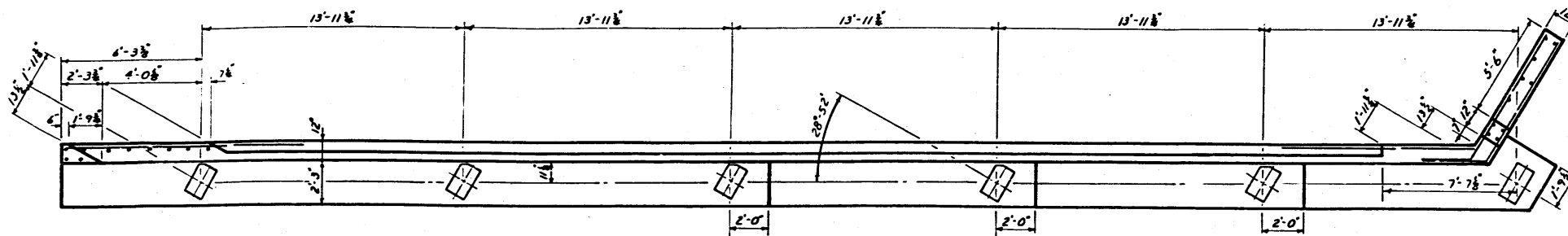
Class x Concrete	Cu.Yds	44.8
Reinforcement Bars	Lbs	4380
Furnishing Concrete Piles	Lm.Ft	150
Driving Concrete Piles	Lm.Ft	150
Test Pile	Each	1

DESIGNED <i>J.A.F.</i>	Mar. 7 1955
CHECKED <i>Mar. J. Rice</i>	EXAMINED <i>V. M. Rineer</i> ENGINEER
DRAWN <i>J.A.F.</i>	PASSED <i>E. C. Hunt</i> ENGINEER
CHECKED <i>M. J. R.</i>	APPROVED



STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

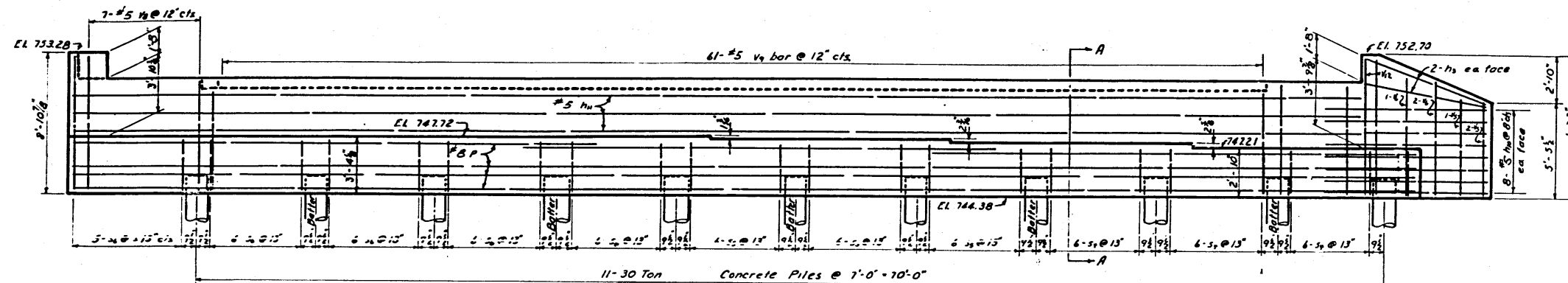
ROAD DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FA 34	29A-HB-F	WILL	65	55	10 SHEETS
FED. ROAD DIST. NO. 7	ALINDOR	FED. AID PROJECT	12	10	



PLAN

Note:
For detail of h₂ bar see sheet #9
For detail of s₂-s₃-s₄ & s₅ bars see sheet #7
For details of concrete piles see Sh. 8A

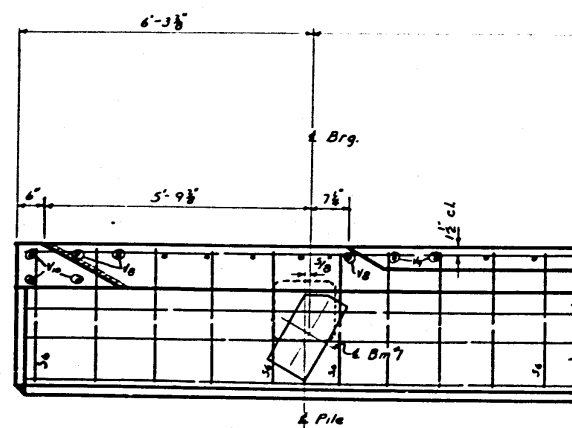
11 Concrete Piles Req'd
Capacity 30 Tons
Est. Length 15'-0"



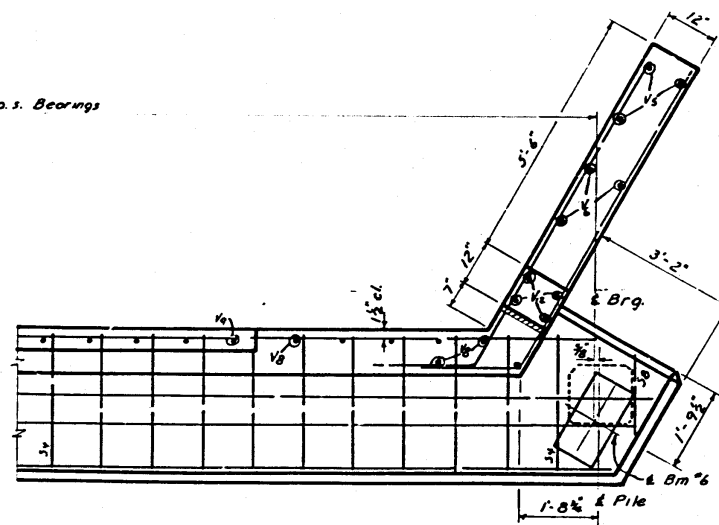
FRONT ELEVATION

BILL OF MATERIAL E. ABUT.
SOUTH BRIDGE

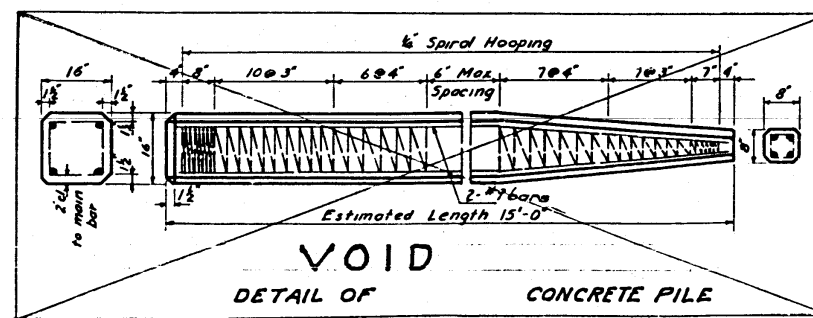
BAR	NO.	SIZE	LENGTH	SHAPE
h ₂	4	#5	6'-6"	—
h ₁₀	16	#5	9'-6"	—
h ₁₁	9	#5	28'-3"	—
p	30	#8	28'-0"	—
s ₂	10	#5	11'-3"	□
s ₃	18	#5	11'-9"	□
s ₄	29	#5	12'-3"	□
s ₅	1	#5	9'-3"	□
v ₅	3	#5	5'-6"	—
v ₆	3	#5	6'-9"	—
v ₇	7	#5	6'-6"	—
v ₈	61	#5	6'-0"	—
v ₉	3	#5	8'-6"	—
v ₁₂	4	#5	7'-9"	—
v ₁₃	3	#5	7'-0"	—
Class & Concrete				Cu Yds 40.4
Reinforcement Bars				Lbs 4080
Furnishing				Concrete Piles 150
Driving				Concrete Piles Lmf 150
				Test Piles Each 1



PLAN AT THE ENDS



SECTION A-A



VOID
DETAIL OF
CONCRETE PILE

PROJ. IN-187(5)
F.A.R.T. 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29R-HB-F
WILL COUNTY
STA. 684+80.6

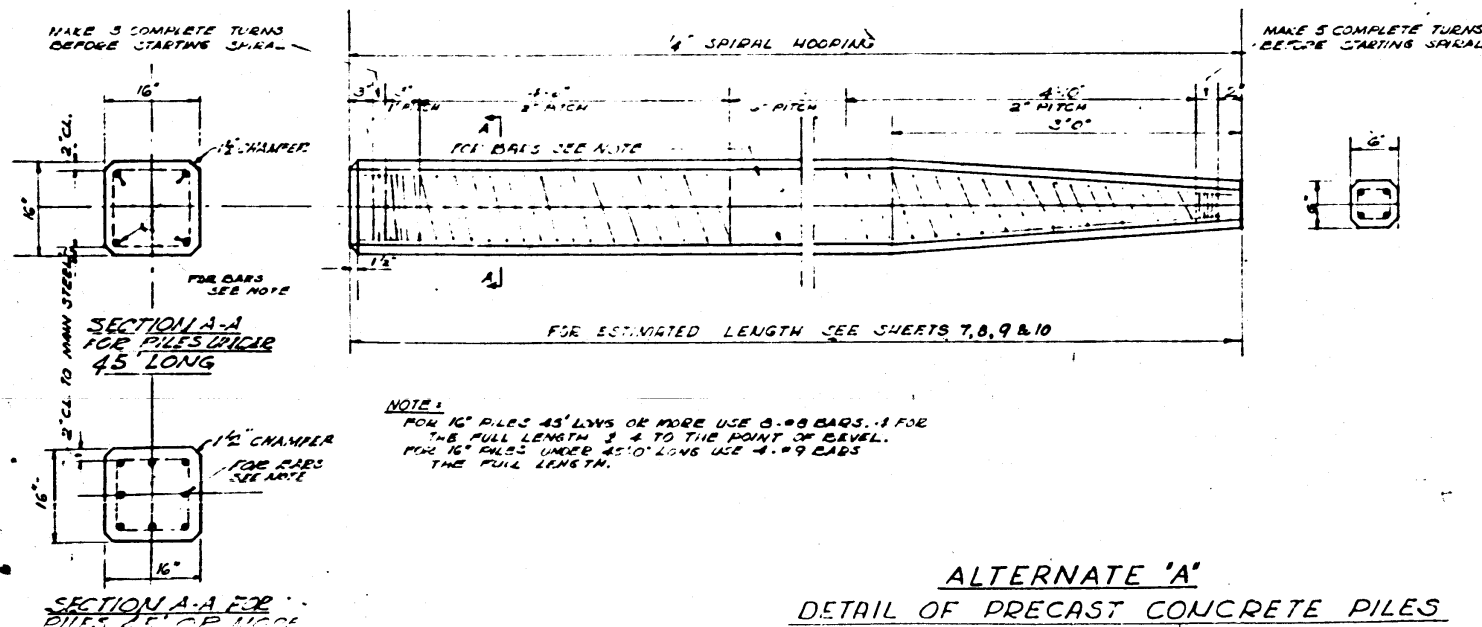
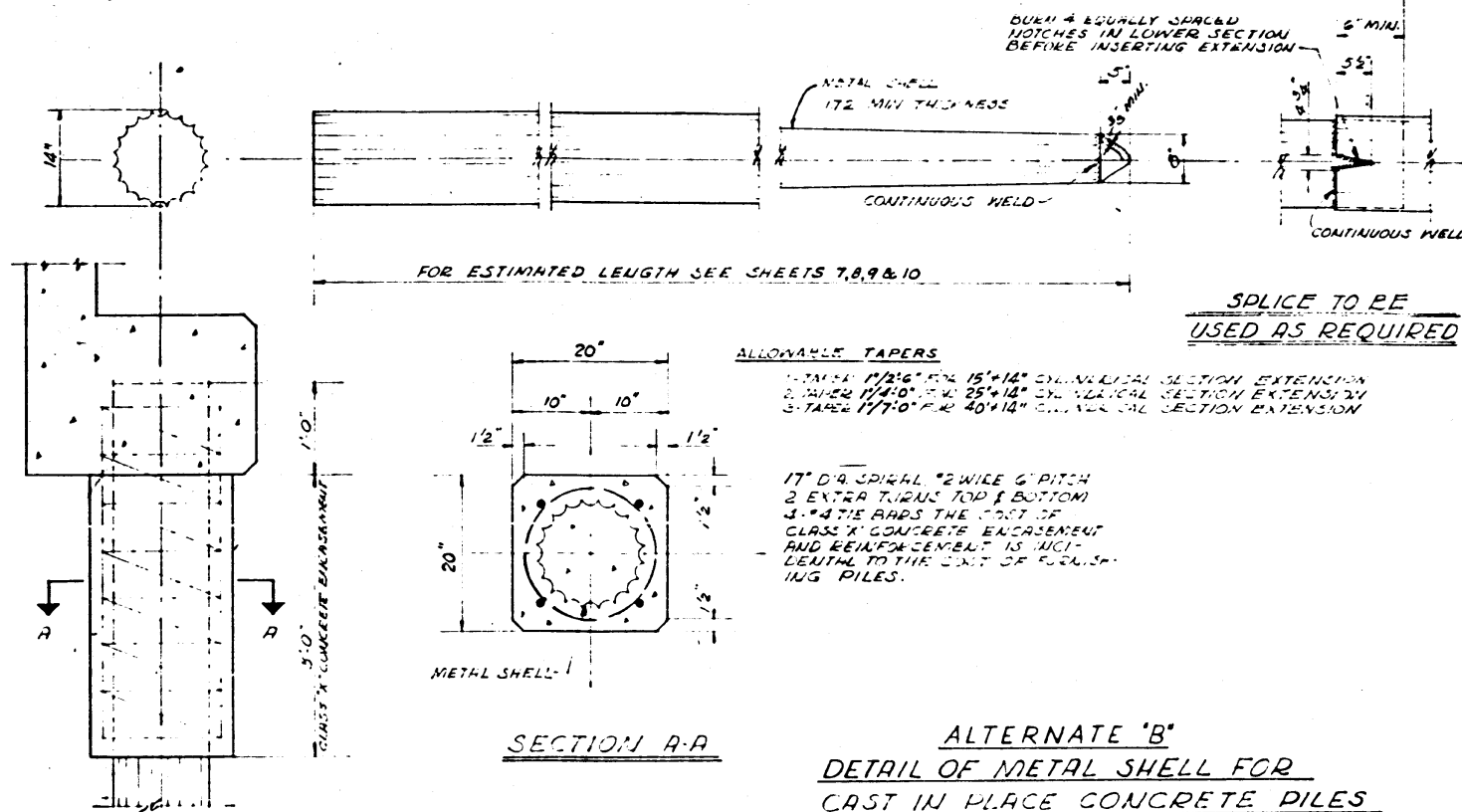
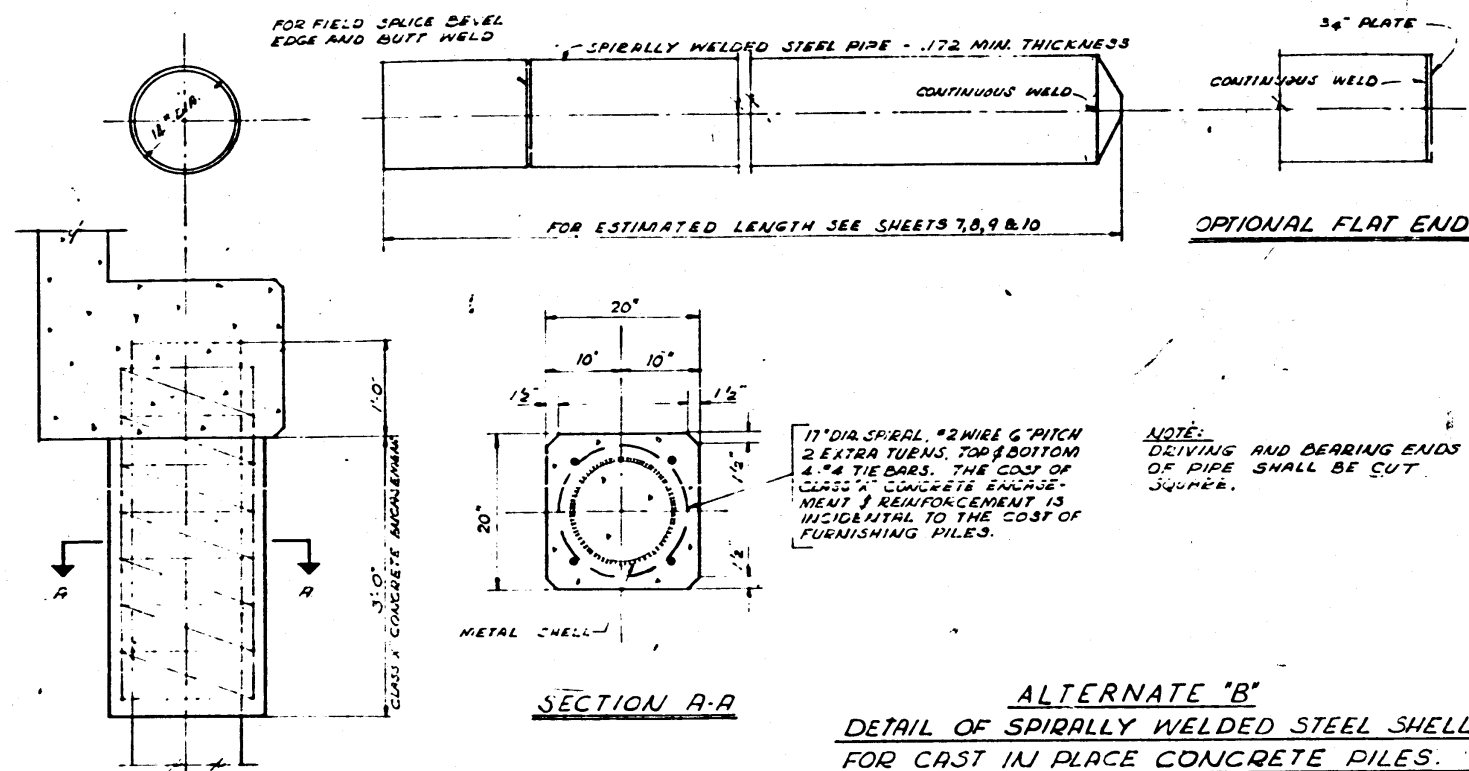
DESIGNED J.A.F.
CHECKED M.A.P.
DRAWN J.M.R.
CHECKED M.P.R.
EXAMINED J.M.R.
PASSED J.M.R.
APPROVED J.M.R.

ABUTMENT PILES

NOTE: PILING TO BE USED AT THE ABUTMENTS SHALL BE ANY OF THE VARIOUS KINDS SHOWN BELOW.

FEDERAL AID ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
34	29R1-HB	Will	65	55A
STA.	TO STA.		12	10A
FED. ROAD DIV. NO. 4	ILLINOIS	FED. AID PROJECT IN 187(5)		

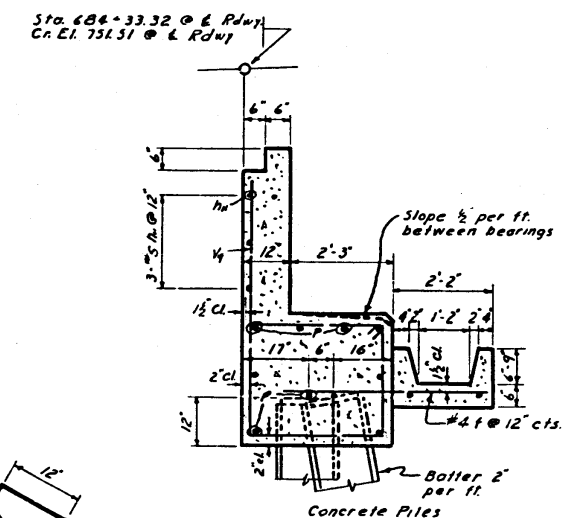
SHEET 8A
10 SHEETS



PILE DETAILS
US ROUTE 66 OVER ALT. US ROUTE 66
PROJECT I.N.-187(5)
F.A. ROUTE 34 SECTION 29R1-HB
WILL COUNTY
C.T. 101, 100

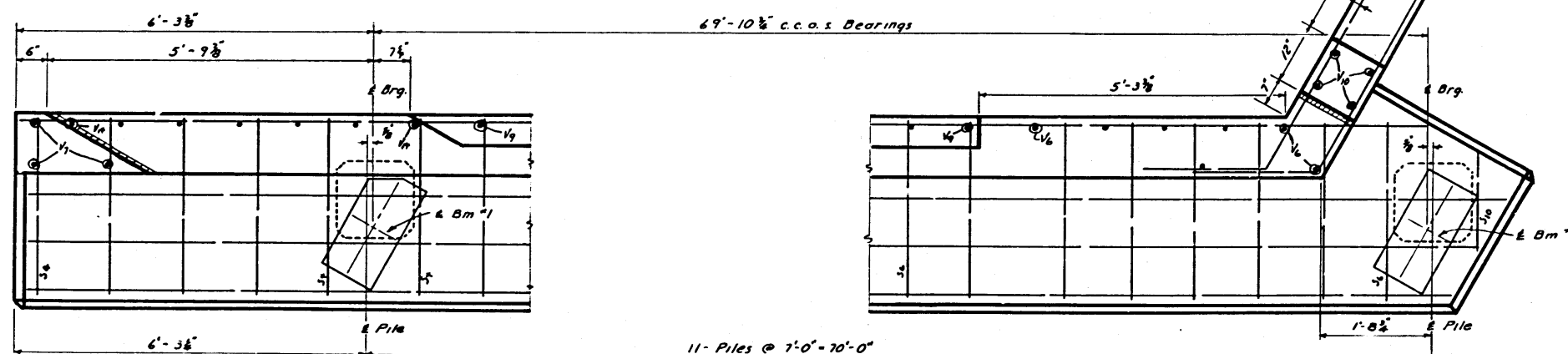
BOND ISSUE ROUTE NO.	DISTRICT	COUNTY	TOTAL SHEETS	SHEET NO.
TA 34	22R-129R-142 22R-142	WILL	65 12	56 11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT -		

SHEET NO. 10 SHEET

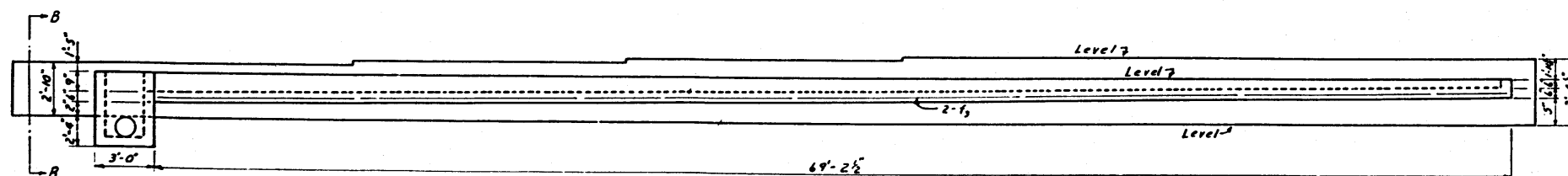


SECTION A-A

FRONT ELEVATION (Trough Not Shown)

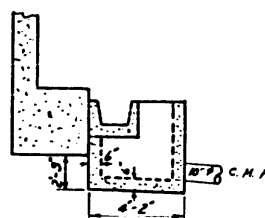


PLAN AT THE ENDS



FRONT ELEVATION (Showing Drainage Trough)

Note:
For detail of h_0 see sheet #7
For detail of s_0, s_1, s_2 & s_3 see sheet #7 & #10
For details of Piles see sheet #8A.



SECTION B-B

11. Concrete Piles Req'd.
Capacity 30 Tons
Est Length 15'-0"

BILL OF MATERIAL W. ABUT.
NORTH BRIDGE

BAR	NO.	SIZE	LENGTH	SHA.
h_3	4	#5	6'-6"	—
h_4	1	#4	10'-9"	☐
h_{10}	20	#5	7'-6"	—
h_{11}	9	#5	26'-5"	—
p	30	#8	28'-0"	—
f	69	#4	4'-6"	—
f_3	6	#4	24'-3"	—
s_0	23	#5	11'-3"	☐
s_3	18	#5	11'-9"	☐
s_6	24	#5	12'-3"	☐
s_{10}	1	#5	10'-3"	☐
v_6	7	#5	6'-9"	—
v_7	3	#5	8'-0"	—
v_9	64	#5	6'-0"	—
v_{10}	4	#5	8'-6"	—
v_{13}	3	#5	7'-3"	—
v_{18}	7	#5	6'-3"	—

Class 1 Concrete	Cu. Yds	44.6
Reinforcement Bars	Lbs.	4420
Furnishing	Con. Piles Lin.Ft.	150
Driving	Con. Piles Lin.Ft.	150
Test Piles	Each	1

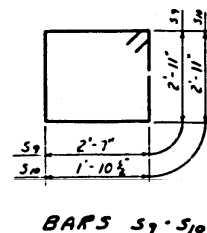
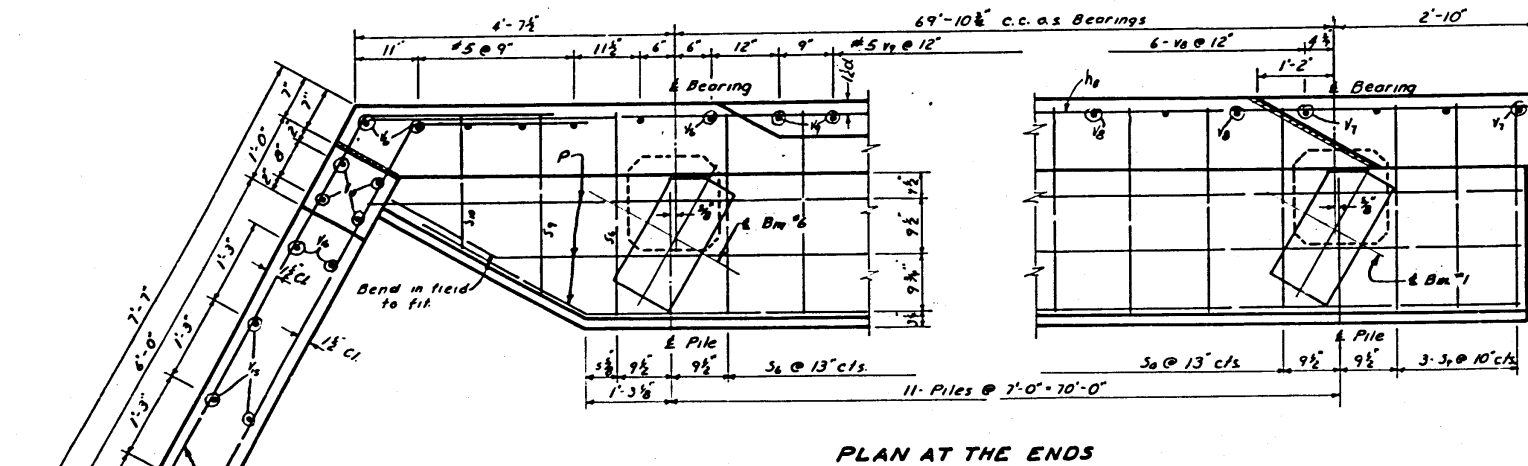
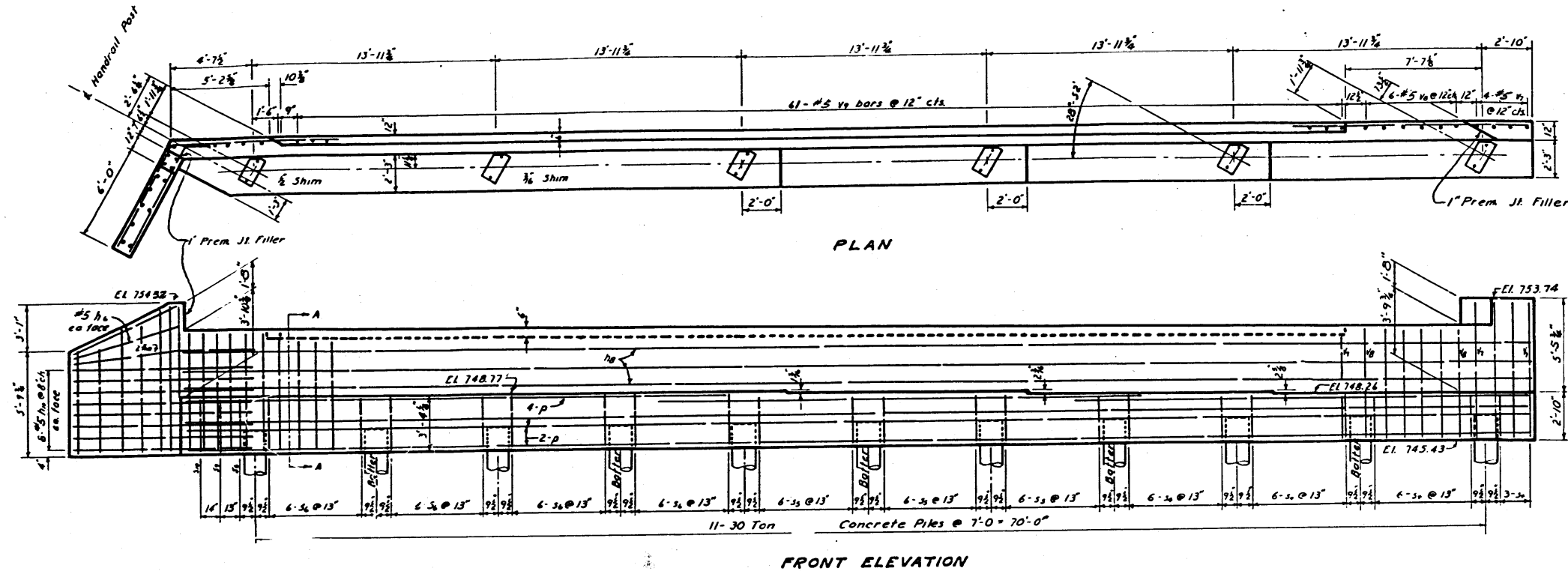
DESIGNED *L. A. F.*
CHECKED *M. J. Rice*
DRAWN *James W. Harland* M. J. H.
CHECKED *M. J. G.*

Mar 7 1955
EXAMINED V. M. Poole
PASSED E. M. [Signature]
APPROVED [Signature]

PROJ. IN. - 107(5)
F.A. RT. 34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC. 29R1HB-F
WILL COUNTY

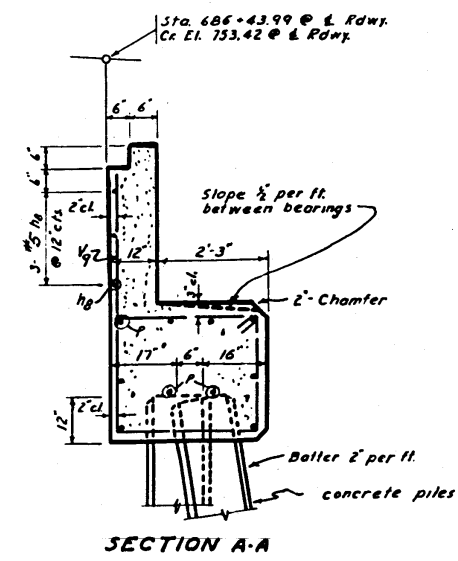
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE ROUTE NO.	SALT RUN	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10
FA 34	29R-1H-F	ILLINOIS	65	57	10 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	12	12	



Note:
For detail of S₉-S₁₀ bars see sheet #7
For detail of h₁₀ bar see sheet #9
For detail of Pile see sheet #8A

11- Concrete Piles Req'd.
Capacity 30 Tons
Est. Length 15'-0"



BILL OF MATERIAL E. ABUT. NORTH BRIDGE

BAR	NO.	SIZE	LENGTH	SHAPE
h ₁₀	4	#5	7'-0"	
h ₈	9	#5	27'-3"	
h ₁₀	18	#5	9'-6"	
p	30	#8	28'-0"	
s ₂₁	21	#5	11'-3"	
s ₁₈	18	#5	11'-9"	
s ₂₅	25	#5	12'-3"	
s ₉	1	#5	11'-9"	
s ₁₀	1	#5	10'-3"	
v ₆	7	#5	6'-9"	
v ₁	4	#5	8'-0"	
v ₈	6	#5	6'-6"	
v ₉	61	#5	6'-0"	
v ₁₀	4	#5	8'-6"	
v ₁₁	3	#5	5'-9"	
v ₁₂	3	#5	7'-0"	
v ₁₃	2	#5	8'-3"	
Class x Concrete			Cu. Yds	398
Reinforcement Bars			Lbs.	4110
Furnishing			Concrete Piles Linft	150
Driving			Concrete Piles Linft	150
			Test Pile Each	1

DESIGNED J.A.F.	EXAMINED
CHECKED	PASSED
DRAWN	APPROVED
CHECKED	

Proj. IN-187(5)
F.A. RT-34 (U.S. 66) OVER
U.S. 66A (NORTH RAMP)
SEC 29R-1H B-F
PAGE WILL COUNTY
STA. 604+00.00