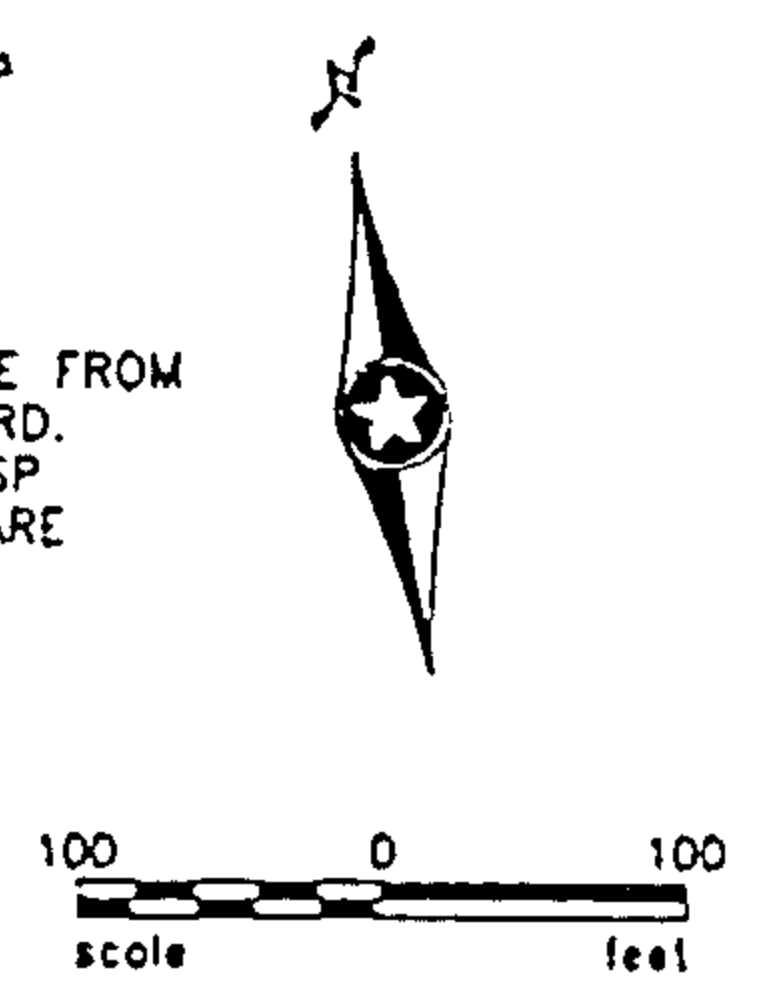


LEGEND

- PAD MOUNTED FEED POINT (240/480V)
- PULL BOX (HAND HOLE)
- NON-METALLIC CONDUIT (2" DIA. UNLESS NOTED OTHERWISE)
- CONDUIT CONSTRUCTED AS PART OF BRIDGE CONSTRUCTION. (SEE NOTES)
- DIRECT BURIED ARMORED POWER CABLE
- HIGH MAST LIGHTING UNIT WITH NO. OF LUMINAIRES AND ORIENTATION
- UNDERPASS LIGHT
- LIGHTING UNIT
- OVERHEAD SIGN

POWER SUPPLY NOTE (R19L):
 BURIED PRIMARY POWER FEED TO R19L WILL BE FROM EXISTING NSP LINES NORTH OF PARK ACCESS RD. CONTRACTOR SHALL COORDINATE WORK WITH NSP SO THAT BURIED PRIMARY FEED CONDUCTORS ARE PLACED PRIOR TO CONSTRUCTION OF ROADWAY PAVEMENT OR BRIDGE SLOPE PAVEMENT (AS APPROPRIATE).



- NOTES:**
- ① BRIDGE NO. 27624 (WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS) PLACE CONDUCTORS IN 2" NON-METALLIC CONDUIT IN BRIDGE RAILING. CONDUIT WILL BE PLACED IN BRIDGE RAIL AND EXTENDED 10' PAST WING WALL AND CAPPED AS PART OF BRIDGE CONSTRUCTION.
 - ② PLACE CONDUCTORS IN 1" NON-METALLIC CONDUIT IN BRIDGE ABUTMENT. CONDUIT AND JUNCTION BOXES WILL BE PLACED IN BRIDGE ABUTMENT AND EXTENDED 10' PAST WING WALL AS PART OF BRIDGE CONSTRUCTION.
 - ③ 1" NON-METALLIC CONDUIT. CONNECT TO CONDUIT PLACED IN BRIDGE ABUTMENTS AS PART OF BRIDGE CONSTRUCTION.
 - ④ LIGHTING TOWER, LUMINAIRES R19J/18 THROUGH R19J/20, AND 3/C-#4 ARMORED CABLE FROM HH13 TO TOWER WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS AND ARE SHOWN FOR INFORMATION ONLY. CABLE SHALL BE PLACED FROM FEED POINT R19J AND TERMINATED IN HH13 UNDER THIS CONTRACT. COIL 10' OF CABLE IN HH13 TO ALLOW SLACK FOR FUTURE SPLICE.

⑤

O.H. 100-169
2-250W.M.V.
FD. PT. (R19J) S

 BEGIN S.P. 70-618-12
 N.B. C.S.A.H. 18 P.O.C. STA. 210+52.54

O.H. 101-169
5-250W.M.V.
FD. PT. (R19L) K

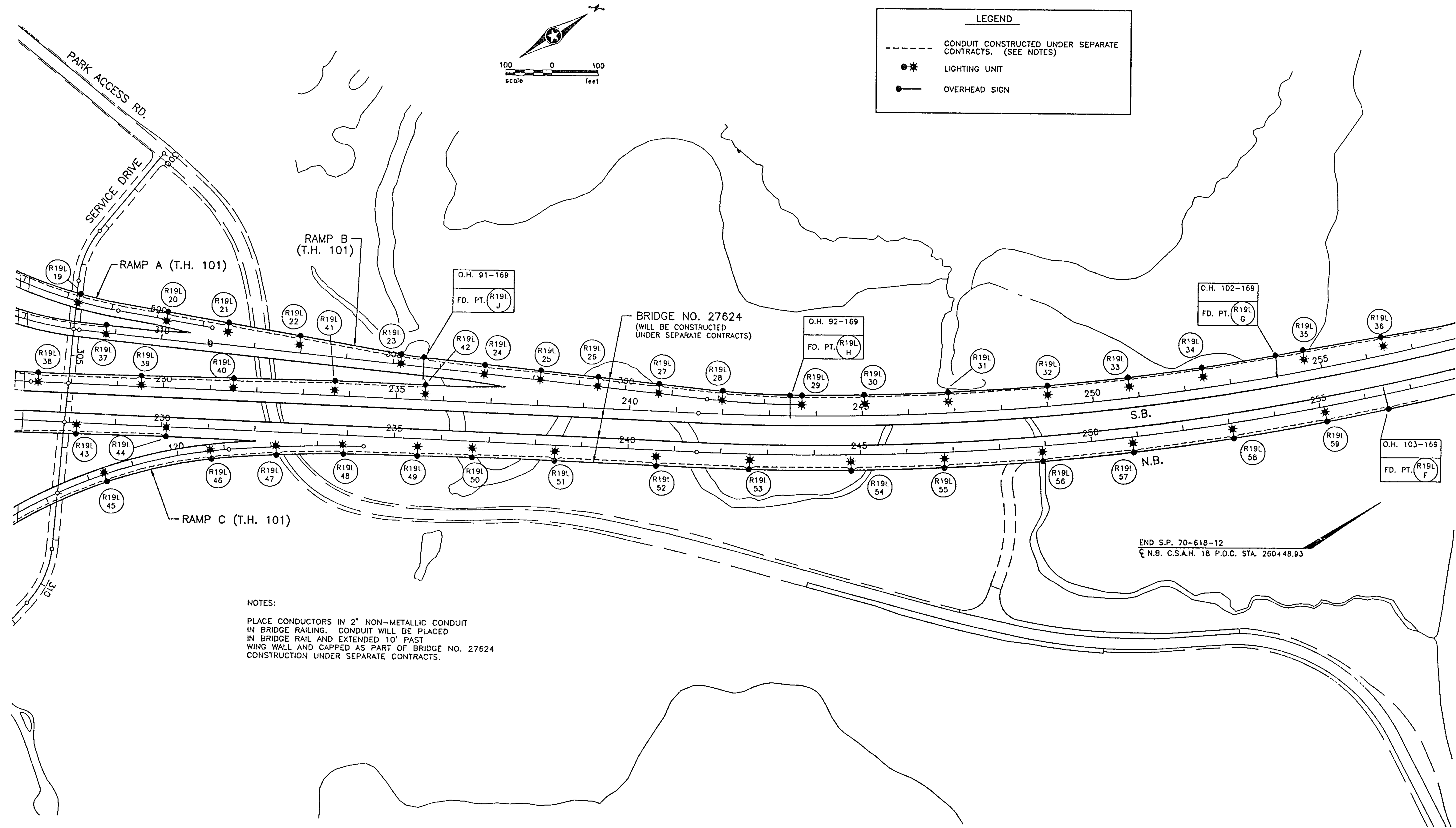
NOTE: ROADWAYS AND BRIDGES SHOWN ON THIS SHEET SOUTH OF BRIDGE NOS. 70521 & 70522 WILL BE CONSTRUCTED UNDER SEPARATE CONTRACTS AND ARE SHOWN FOR INFORMATION ONLY.

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Steven Rick Brown
 Date 07/14/93 Reg. No. 19528

EXHIBIT 306A FEED POINTS R19L & R19J

SCOTT COUNTY T.H. 169 & T.H. 101 IN SHAKOPEE LIGHTING PLAN	S.P. 70-618-12	DRAWN BY DATE D. SYMANIETZ 11-92 DESIGNED BY D. MICHALKO 11-92 CHECKED BY S.R. BROWN 12-92	SHEET 73 OF 168 COMM. NO. 0891410
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NOTES:
 PLACE CONDUCTORS IN 2" NON-METALLIC CONDUIT
 IN BRIDGE RAILING. CONDUIT WILL BE PLACED
 IN BRIDGE RAIL AND EXTENDED 10' PAST
 WING WALL AND CAPPED AS PART OF BRIDGE NO. 27624
 CONSTRUCTION UNDER SEPARATE CONTRACTS.

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Steven Rick Brown
 Date 02/14/93 Reg. No. 19568

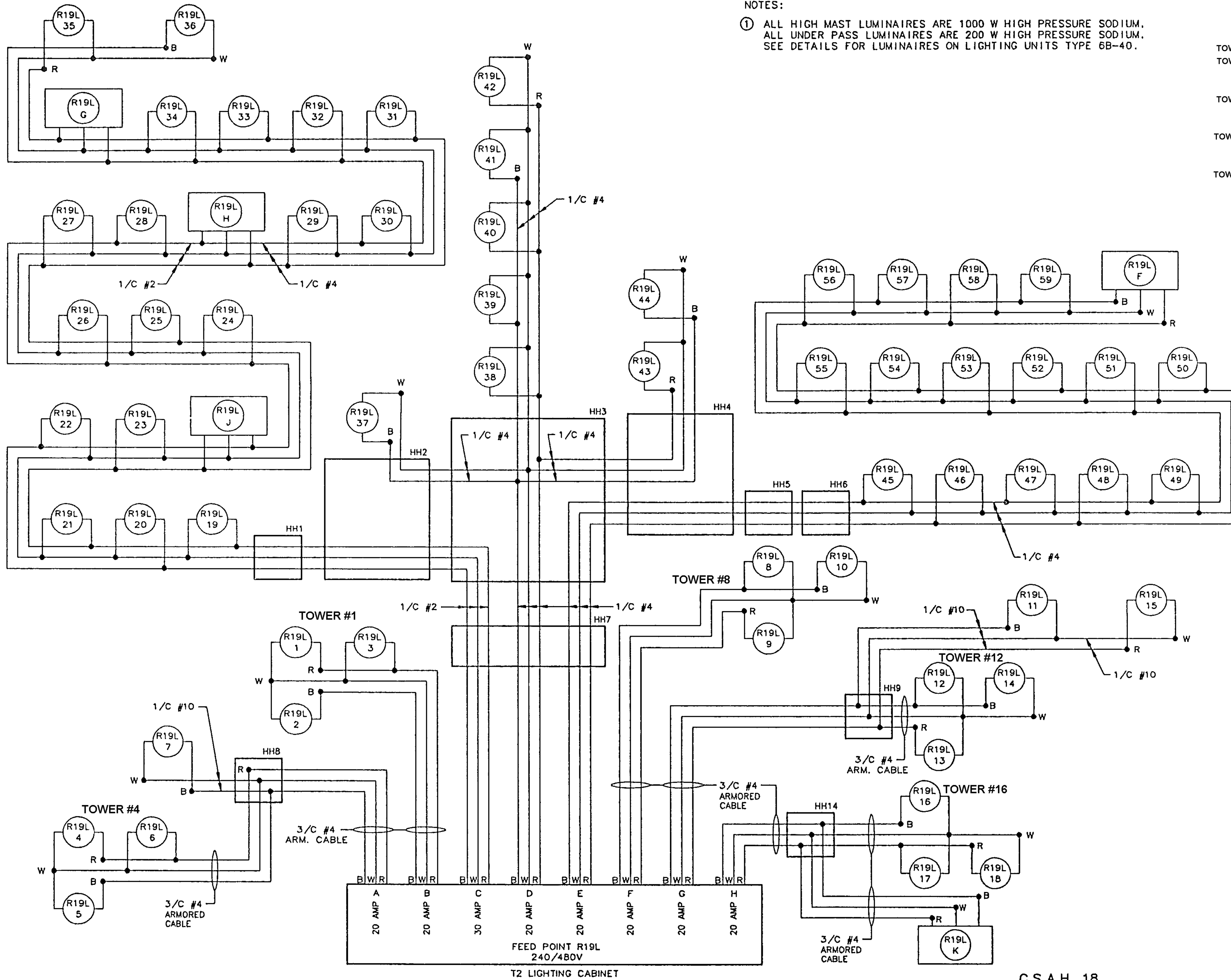
SCOTT COUNTY
 T.H. 169
 LIGHTING PLAN

S.P. 70-618-12
 DRAWN BY DATE
 O. SYMANIEZ 12-92
 DESIGNED BY
 O. MICHALKO 12-92
 CHECKED BY
 S.R. BROWN 12-92

SHEET 74
 OF 168
 COMM. NO.
 0901410

NOTES:

- ① ALL HIGH MAST LUMINAIRES ARE 1000 W HIGH PRESSURE SODIUM. ALL UNDER PASS LUMINAIRES ARE 200 W HIGH PRESSURE SODIUM. SEE DETAILS FOR LUMINAIRES ON LIGHTING UNITS TYPE 6B-40.



LIGHTING SYSTEM "R19L"					
NO.	STATION	OFFSET	LOCATION	POLE TYPE	LUMINAIRE TYPE ①
TOWER #1	1-3	225+00	95' LT. S.B. C.S.A.H. 18	3-100	S-NC II
TOWER #4	4-6	365+45	80' LT. INPLACE W.B. T.H. 101	3-100	S-NC II
	7	319+30	1' RT. RAMP B (T.H. 101) (N ABUTMENT BR 70518)		S-NC IV
TOWER #8	8-10	113+35	105' LT. RAMP C (T.H. 101)	3-100	S-NC II
	11	221+25	3' LT. S.B. C.S.A.H. 18 (N ABUTMENT BR 70520)		S-NC IV
TOWER #12	12-14	222+35	44' LT. N.B. C.S.A.H. 18	3-100	S-NC V
	15	221+78	9' RT. N.B. C.S.A.H. 18 (N ABUTMENT BR 70519)		S-NC IV
TOWER #16	16-18	389+60	65' LT. L2WB	3-120	S-NC II
	19	501+75	RT. RAMP A (T.H. 101)	6B-40	M-SC III
	20	499+79	RT. RAMP A (T.H. 101)	6B-40	M-SC III
	21	308+60	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	22	307+04	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	23	304+82	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	24	303+07	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	25	301+85	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	26	300+60	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	27	299+28	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	28	297+90	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	29	296+23	RT. RAMP B (T.H. 101)	6B-40	M-SC III
	30	245+03	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	31	246+85	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	32	249+02	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	33	250+80	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	34	252+43	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	35	254+64	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	36	256+40	LT. S.B. C.S.A.H. 18	6B-40	M-SC III
	37	311+20	RT. RAMP B (T.H. 101)	6B-40	M-SC II
	38	227+30	LT. S.B. C.S.A.H. 18	6B-40	M-SC II
	39	229+52	LT. S.B. C.S.A.H. 18	6B-40	M-SC II
	40	231+50	LT. S.B. C.S.A.H. 18	6B-40	M-SC II
	41	233+68	LT. S.B. C.S.A.H. 18	6B-40	M-SC II
	42	235+67	LT. S.B. C.S.A.H. 18	6B-40	M-SC II
	43	228+15	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	44	230+10	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	45	118+38	RT. RAMP C (T.H. 101)	6B-40	M-SC II
	46	120+70	RT. RAMP C (T.H. 101)	6B-40	M-SC III
	47	122+10	RT. RAMP C (T.H. 101)	6B-40	M-SC III
	48	123+55	RT. RAMP C (T.H. 101)	6B-40	M-SC III
	49	235+50	RT. N.B. C.S.A.H. 18	6B-40	M-SC III
	50	236+65	RT. N.B. C.S.A.H. 18	6B-40	M-SC III
	51	238+43	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	52	240+60	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	53	242+60	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	54	244+80	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	55	246+75	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	56	248+92	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	57	250+90	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	58	253+05	RT. N.B. C.S.A.H. 18	6B-40	M-SC II
	59	255+05	RT. N.B. C.S.A.H. 18	6B-40	M-SC II

ITEM	UNIT	ESTIMATED QUANTITY
1" NON-METALLIC CONDUIT	LIN. FT.	55
2" NON-METALLIC CONDUIT	LIN. FT.	1120
3" NON-METALLIC CONDUIT	LIN. FT.	500
ARMORED CABLE 3 COND NO. 4	LIN. FT.	4950
UNDERGROUND WIRE 1 COND NO. 2	LIN. FT.	7800
UNDERGROUND WIRE 1 COND NO. 4	LIN. FT.	22900
UNDERGROUND WIRE 1 COND NO. 6 (BARE)	LIN. FT.	9400
UNDERGROUND WIRE 1 COND NO. 10	LIN. FT.	450
PULL BOX (HANDHOLE)	EACH	10
EQUIPMENT PAD	EACH	1
SERVICE PANEL SECONDARY TYPE T2-D-240	EACH	1
UNDERPASS LIGHTING UNIT TYPE L	EACH	3
LIGHTING UNIT TYPE 6B-40	EACH	41
LIGHTING UNIT TYPE 3-100	EACH	4
LIGHTING UNIT TYPE 3-120	EACH	1
LIGHT BASE DESIGN T-100	EACH	4
LIGHT BASE DESIGN T-120	EACH	1

NOTES:

B AND R DENOTE CURRENT CARRYING CONDUCTORS. W DENOTES NEUTRAL CONDUCTOR.

1/C #6 BARE GROUND (SPEC. 3807.2F) IS REQUIRED IN ALL NONMETALLIC CONDUIT CARRYING UNDERGROUND WIRE. (GROUND WIRE NOT SHOWN IN CIRCUIT DIAGRAMS).

FEED POINT R19L

NO	DATE	BY	CKD	APPR	REVISION

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota.
Steven Rick Brown
 Date 02/16/92 Reg. No. 19568

C.S.A.H. 18

BRIDGE NO. 27624 SOUTH APPROACH SPANS AND NORTH PORTION OF T.H. 101 INTERCHANGE

SCOTT COUNTY

C.S.A.H. 18
 ELECTRICAL LIGHTING SYSTEMS CIRCUITS
 FEED POINT R19L

S.P. 70-618-12

DRAWN BY DATE
 D. SYMANIETZ 11-92
 DESIGNED BY
 D. MICHALCO 11-92
 CHECKED BY
 S.R. BROWN 12-92

SHEET 74A
 OF 168
 COMM. NO.
 0901410