

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY GUNNERS AND ENLISTED
PROFESSIONAL HEALTH MUST BE CHECKED BY COMBINED
SELECTION (RECRUITMENT) AND SERVICE INSPECTING
COMMITTEE. THE COMPLETE REPORT ON SELECTION OF
PROFESSIONAL PERSONNEL WILL BE MAILED TO THE
HEADQUARTERS OF THE ARMY.

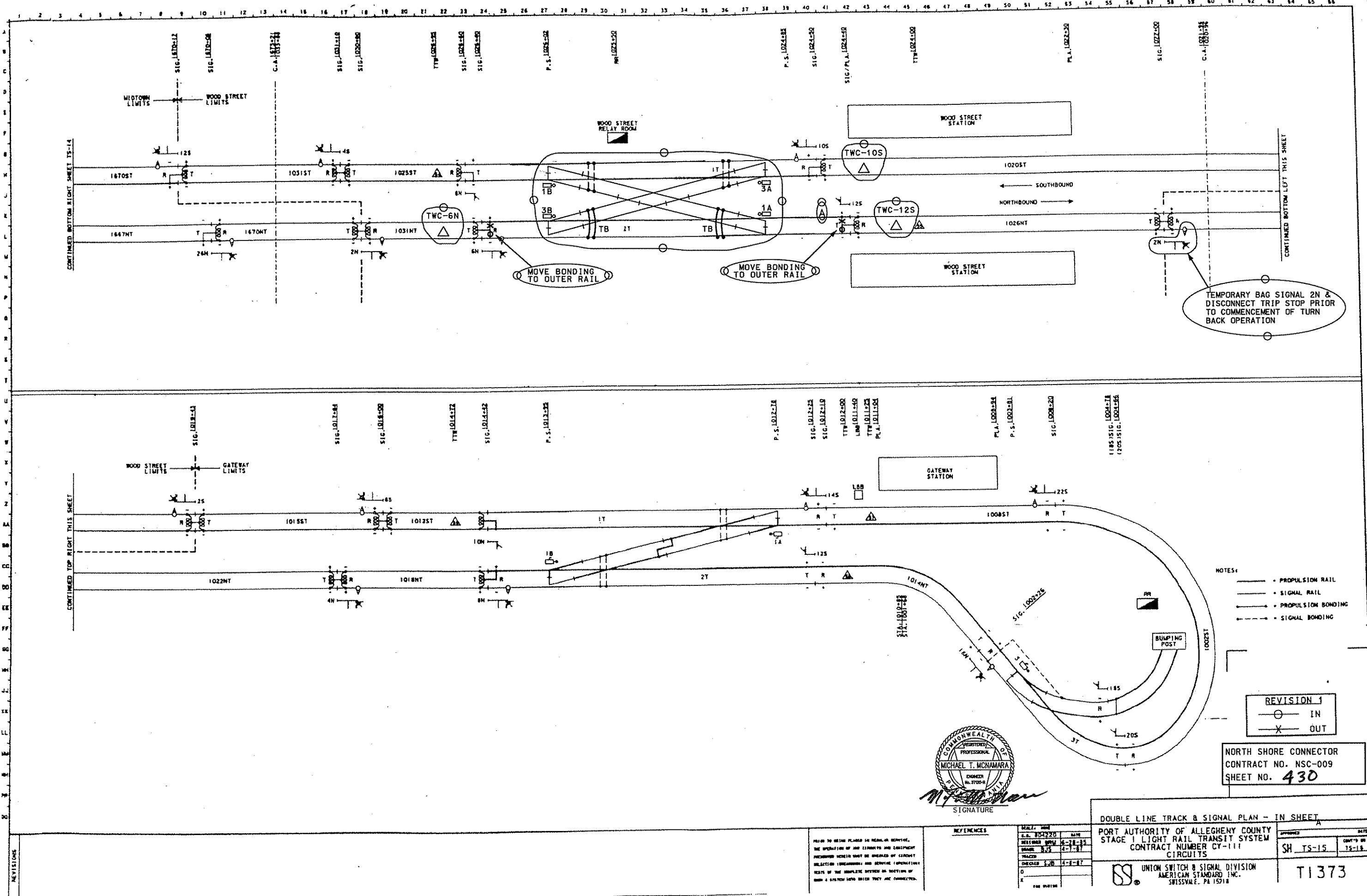
DOUBLE LINE TRACK B SIGNAL PLAN - OUT SHEET

PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED	DATE
		SH TS-15X	DRWTS BY TS-15
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELA, PA 15218	T1373	



 UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSENVILLE, PA 15214

T1373

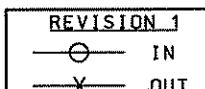


SHEET NO.	DESCRIPTION	REV. 1	REV. 2	SHEET NO.	DESCRIPTION	REV. 1	REV. 2
1022-1	INDEX	✓		1022-47	LOCAL CONTROL PANEL - FACE PLATE	✓	
1022-2	CABLE PLAN	✓		1022-48	LOCAL CONTROL PANEL - LIGHTS	✓	
1022-3	TRAFFIC LOCKING CIRCUITS - SOUTH	✓		W-INDEX	WIRING DIAGRAMS INDEX	✓	
1022-4	VITAL LINE CIRCUITS - SOUTH						
1022-4A	NON-VITAL LINE CIRCUITS - SOUTH	✓					
1022-5	TRAFFIC LOCKING CIRCUITS - NORTH	✓					
1022-6	VITAL LINE CIRCUITS - NORTH						
1022-6A	NON-VITAL LINE CIRCUITS - NORTH						
1022-7	SIGNAL CONTROL CIRCUITS - 6N, 8N, 10S, 12S	✓					
1022-8	SIGNAL CONTROL CIRCUITS - 2N, 2S, 4S	✓					
1022-9	TRIP STOP CONTROL CIRCUITS - 6N, 10S (12S)	✓					
1022-10	TRIP STOP CONTROL CIRCUITS - 2N, 2S, 4S						
1022-11	TIME LOCKING CIRCUITS - 6N, 8N, 10S, 12S	✓					
1022-12	TIME LOCKING CIRCUITS - 2N, 2S, 4S						
1022-13	ROUTE LOCKING CIRCUITS - NS/SS	✓					
1022-14	SWITCH CONTROL CIRCUITS - NWZ/RWZ	✓					
1022-15	SWITCH LOCKING CIRCUIT - LSR	✓					
1022-16	SIGNAL LIGHTING CIRCUITS - 6N, 8N, 10S, 12S	✓					
1022-17	SIGNAL LIGHTING CIRCUITS - 2N, 2S, 4S						
1022-18	TRACK CIRCUITS - 1020ST, 1025ST						
1022-19	TRACK CIRCUIT - 1031ST						
1022-20	TRACK CIRCUITS - 1026NT, 1031NT						
1022-21	TRACK CIRCUITS - IT, 2T	✓					
1022-22	A. C. POWER SUPPLY						
1022-23	A. C. POWER SUPPLY - SH-2	✓					
1022-24	D. C. POWER SUPPLY	✓					
1022-25	D. C. GROUND DETECTOR						
1022-26	A. C. GROUND DETECTOR						
1022-27	A. C. BLOWN FUSE CIRCUITS - SIGNAL						
1022-28	A. C. BLOWN FUSE CIRCUITS - TRACKS						
1022-29	CROSSOVER INDICATION CIRCUITS - NWC/RNC	✓					
1022-30	SWITCH OPERATING CIRCUIT - CROSSOVER - NW/RW	✓					
1022-31	CODE LINE DROP						
1022-31A	GENISYS OUTPUT - LOCAL AND REMOTE - CONTROL WORD 1						
1022-32	GENISYS OUTPUT - LOCAL AND REMOTE - CONTROL WORD 2	✓					
1022-33	GENISYS OUTPUT - LOCAL - CONTROL WORDS 2 & 3, LOCAL PANEL LIGHTING	✓					
1022-33A	GENISYS OUTPUT - LOCAL CONTROL WORD 4	✓					
1022-34	GENISYS OUTPUT - LOCAL - CONTROL WORDS 4 & 5						
1022-35	GENISYS INPUT - LOCAL AND REMOTE - INDICATION WORD 1	✓					
1022-36	GENISYS INPUT - LOCAL AND REMOTE - INDICATION WORD 2						
1022-37	GENISYS INPUT - LOCAL - INDICATION WORDS 3 & 4	✓					
1022-38	GENISYS INPUT - LOCAL - INDICATION WORD 5						
1022-39	GENISYS INPUT - LOCAL AND REMOTE - INDICATION WORDS 3 & 6						
1022-40	GENISYS INPUT - LOCAL INDICATION WORD 7	✓					
1022-41	CODE AND FUNCTION ASSIGNMENT	✓					
1022-42	MAINTENANCE TELEPHONE	✓					
1022-43	TRAIN TO WAYSIDE COIL #54						
1022-44	TRAIN TO WAYSIDE COIL #55						
1022-45	TTW CODE LINE DROP						
1022-46	ROUTE & LOCKING CHART	✓					

1022-2X TRACK & CABLES OUT

1022-29A CROSSOVER INDICATION CIRCUITS 3NWC/RWC

1022-30A SWITCH OPERATING CIRCUITS 3NW/RW

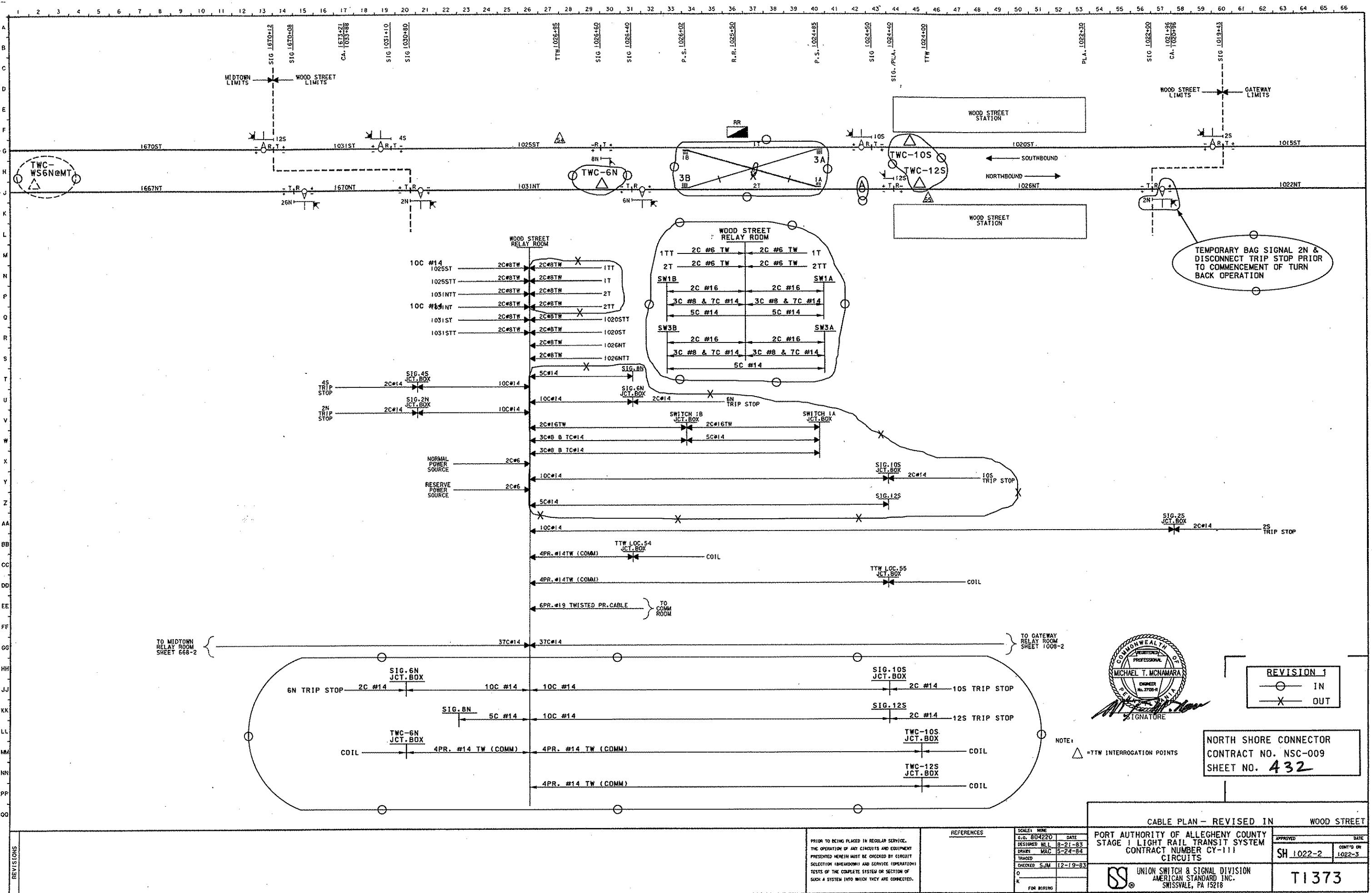
1022-45A TWC SYSTEM BLOCK DIAGRAM
1022-45B TWC ROUTE REQUESTSWOOD STREET SINGLE
CROSSOVER REPLACED
BY DOUBLE CROSSOVERNORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 431

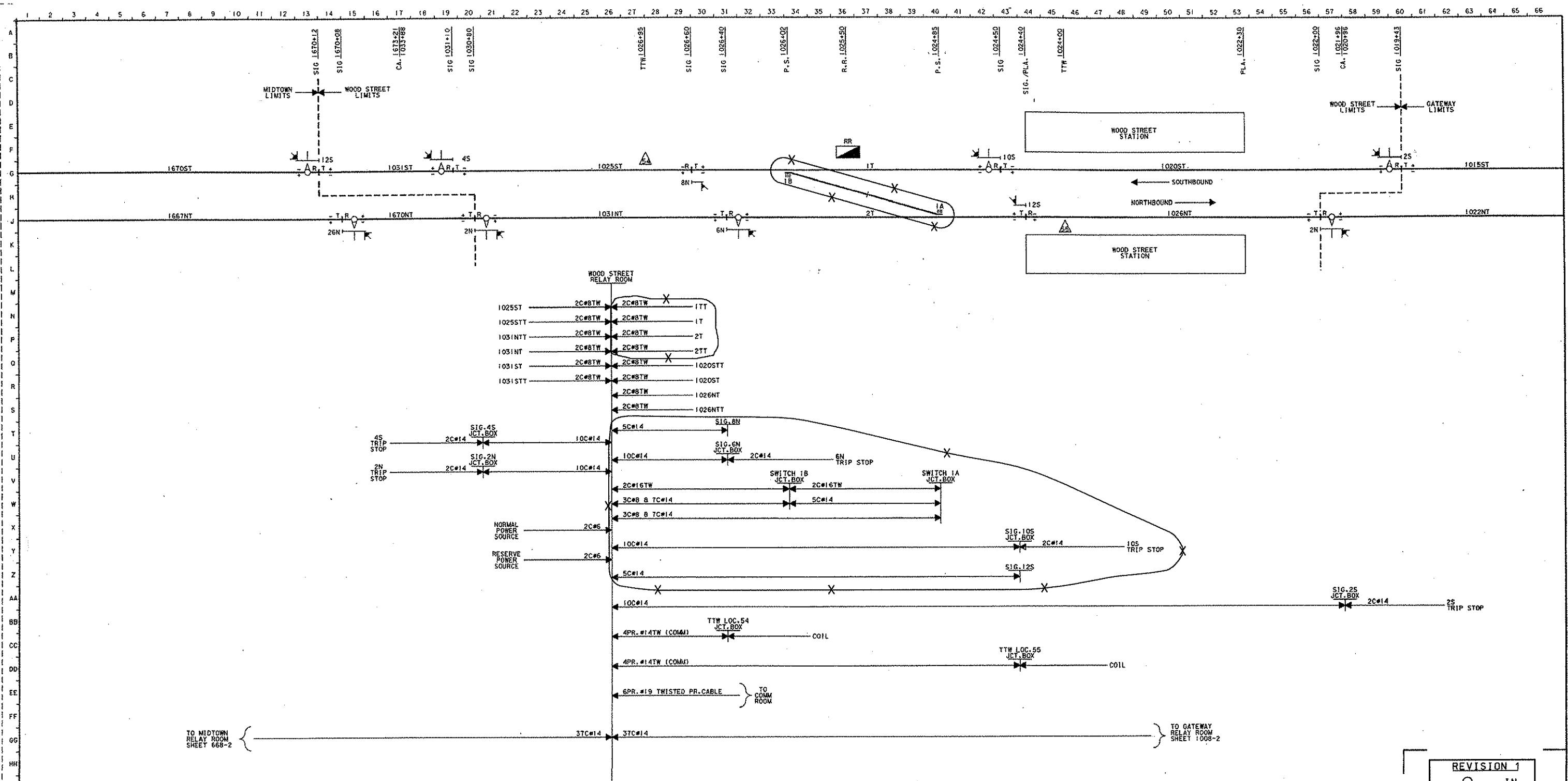
Signature

INDEX

WOOD ST.

REVISIONS	PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALED NO. O.O. BO4220 DATE 11-9-83 DESIGNED BY L.W.L. DRAWN BY L.W.L. TRACED BY CHECKED BY SJM 12-19-83 O FOR WIRING K	APPROVED DATE SH 1022-1 1022-2 CONT'D ON
			PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS	T1373
			UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	INDEX-PAT



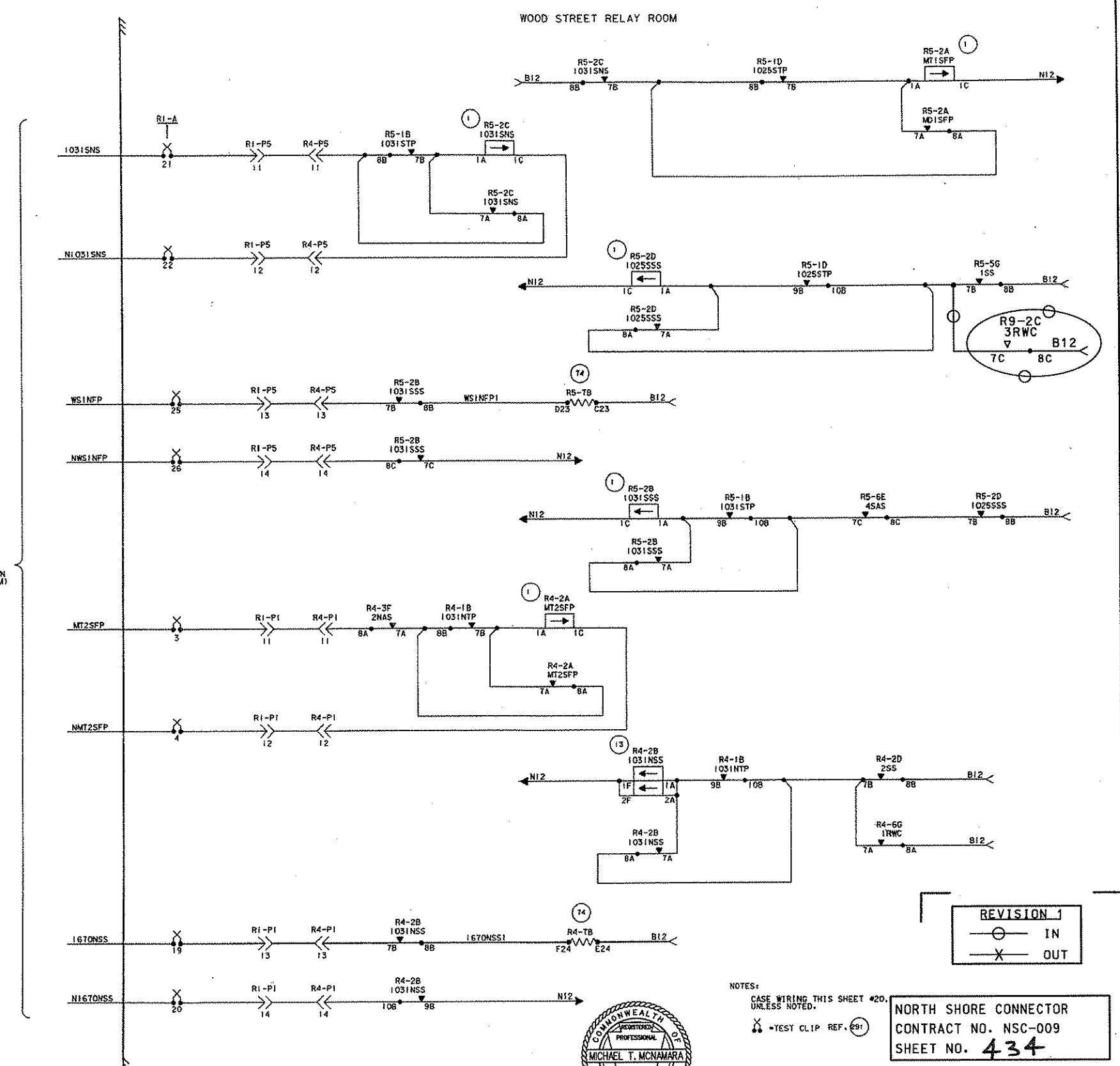
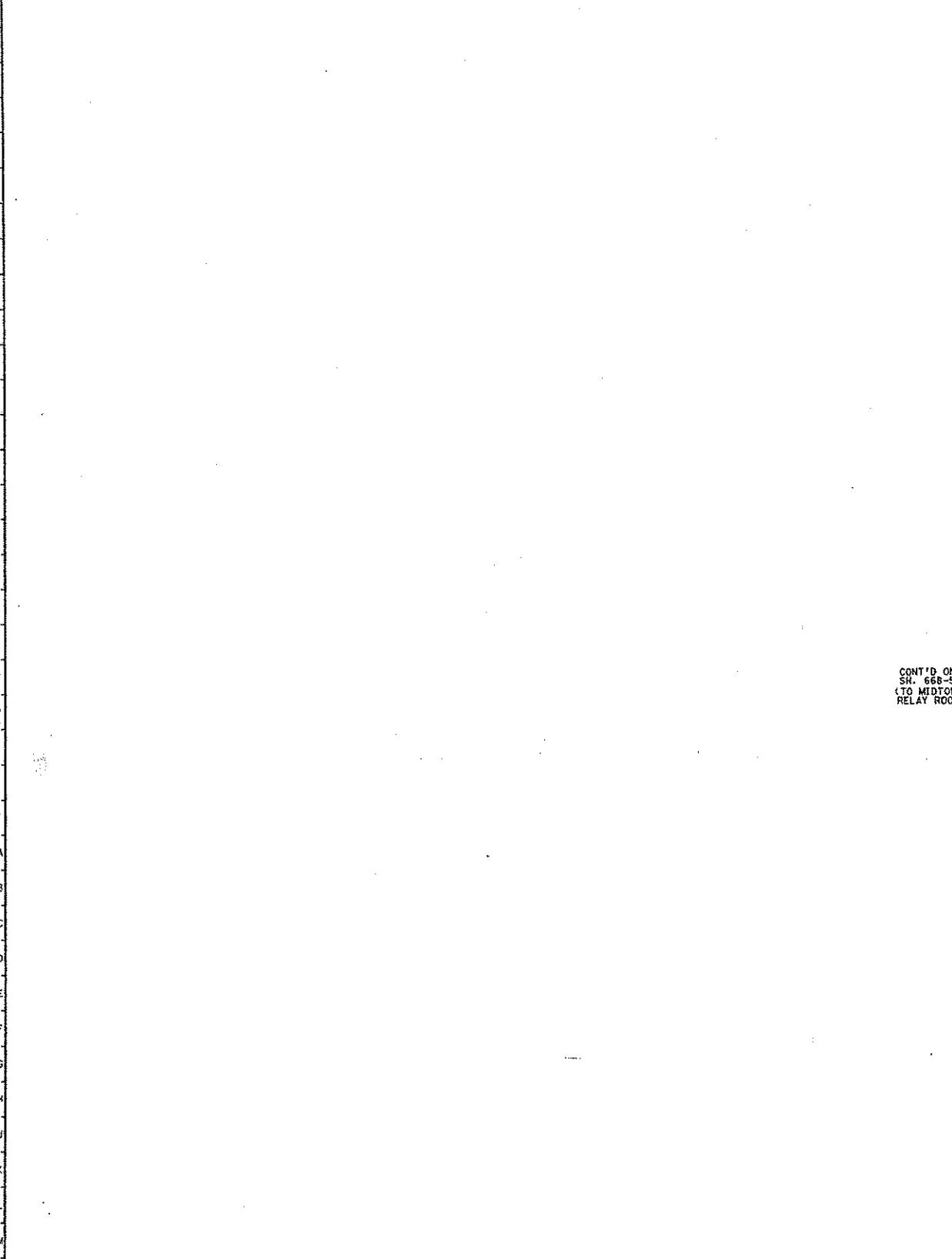


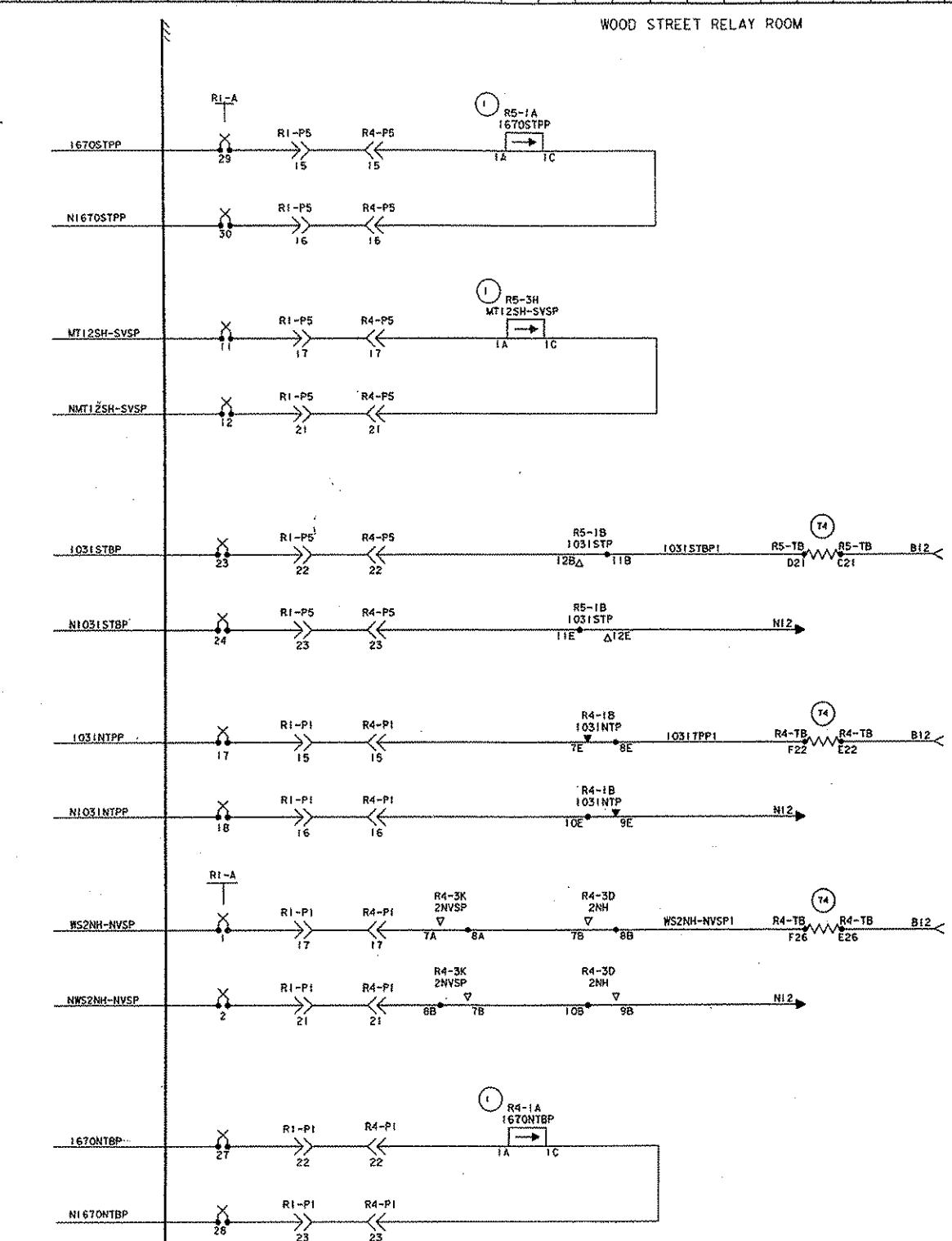
NOTE:  = TTM INTERROGATION POINTS

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 433

REVISIONS		<p>PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (HEADEND) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.</p>	REFERENCES	<table border="1"> <tr><td>SCALE</td><td>None</td></tr> <tr><td>G.O.</td><td>804220</td></tr> <tr><td>DESIGNED BY</td><td>DATE</td></tr> <tr><td>DRWNR</td><td>8-21-83</td></tr> <tr><td>MAC</td><td>5-24-84</td></tr> <tr><td>TRACED</td><td></td></tr> <tr><td>CHECKED SJM</td><td>12-19-83</td></tr> <tr><td>D</td><td></td></tr> <tr><td>K</td><td></td></tr> <tr><td colspan="2">FOR BIRING</td></tr> </table>	SCALE	None	G.O.	804220	DESIGNED BY	DATE	DRWNR	8-21-83	MAC	5-24-84	TRACED		CHECKED SJM	12-19-83	D		K		FOR BIRING		PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-1111 CIRCUITS	APPROVED SH 1022-2X	DATE 1022-3
					SCALE	None																					
G.O.	804220																										
DESIGNED BY	DATE																										
DRWNR	8-21-83																										
MAC	5-24-84																										
TRACED																											
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K																											
FOR BIRING																											
				UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218	T1373																						

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66





CONT'D
SH. 668-1
(TO MIDTON
RELAY ROOM)

NOTES:

CASE WIRING THIS SHEET #20,
UNLESS NOTED.

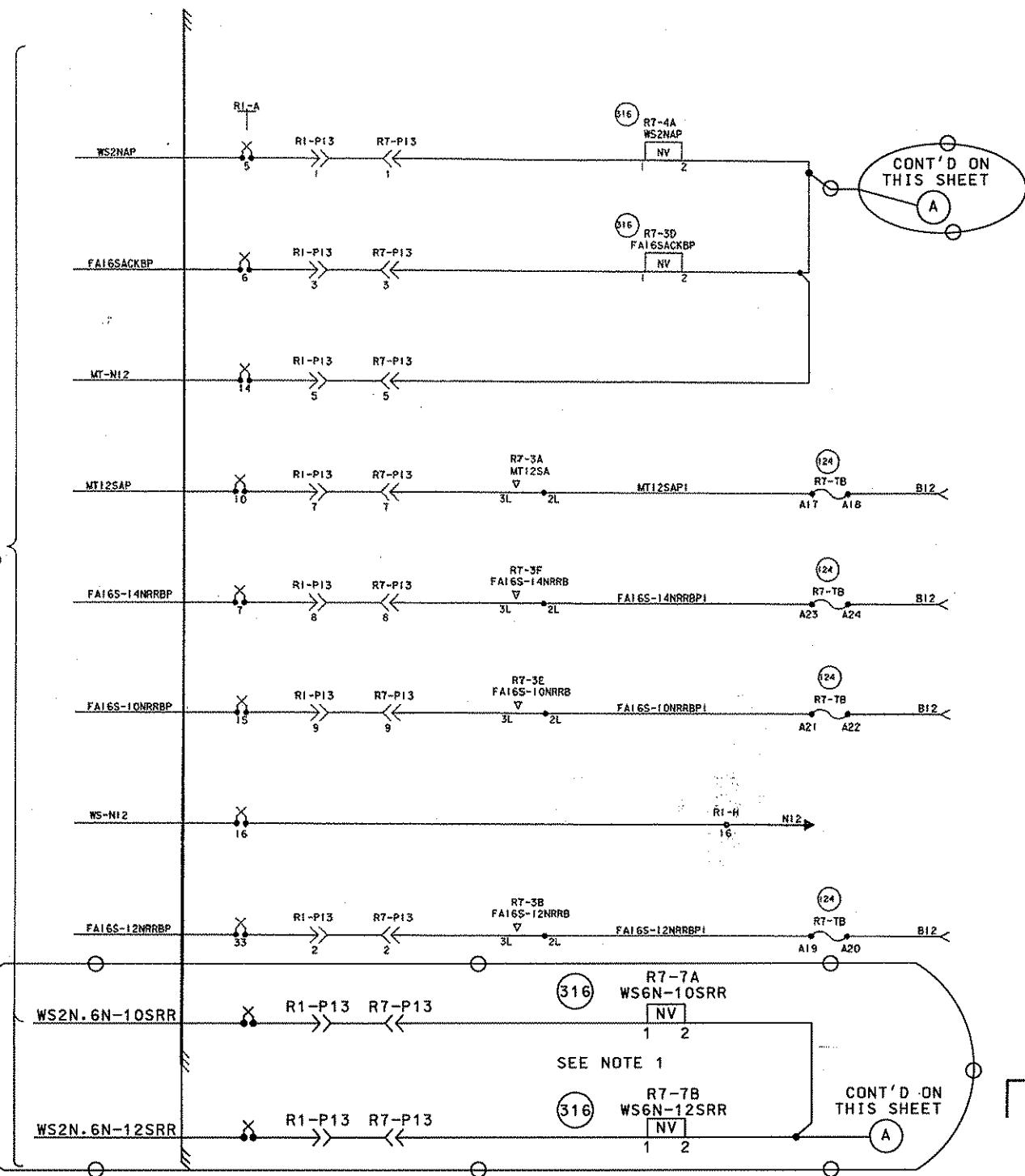
X TEST CLIP REF. 29E

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 435

LINE CIRCUITS SOUTH		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		APPROVED DATE SH 1022-4 CONT'D ON 1022-4A
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELA, PA 15128		T 1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

WOOD STREET RELAY ROOM



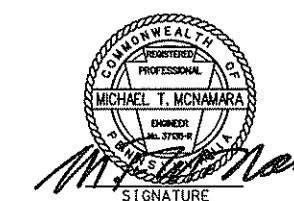
NOTE:

1. CONTRACTOR WILL REPROGRAM EXISTING TWC COIL #48 AT MIDTOWN OR PROVIDE NEW TWC LOOP TO GET THESE 6N-10S & 6N-12S ROUTE REQUESTS FROM MIDTOWN INTERLOCKING FOR TURN BACK MOVES AT WOOD STREET.

CASE WIRING THIS SHEET #20,
UNLESS NOTED.

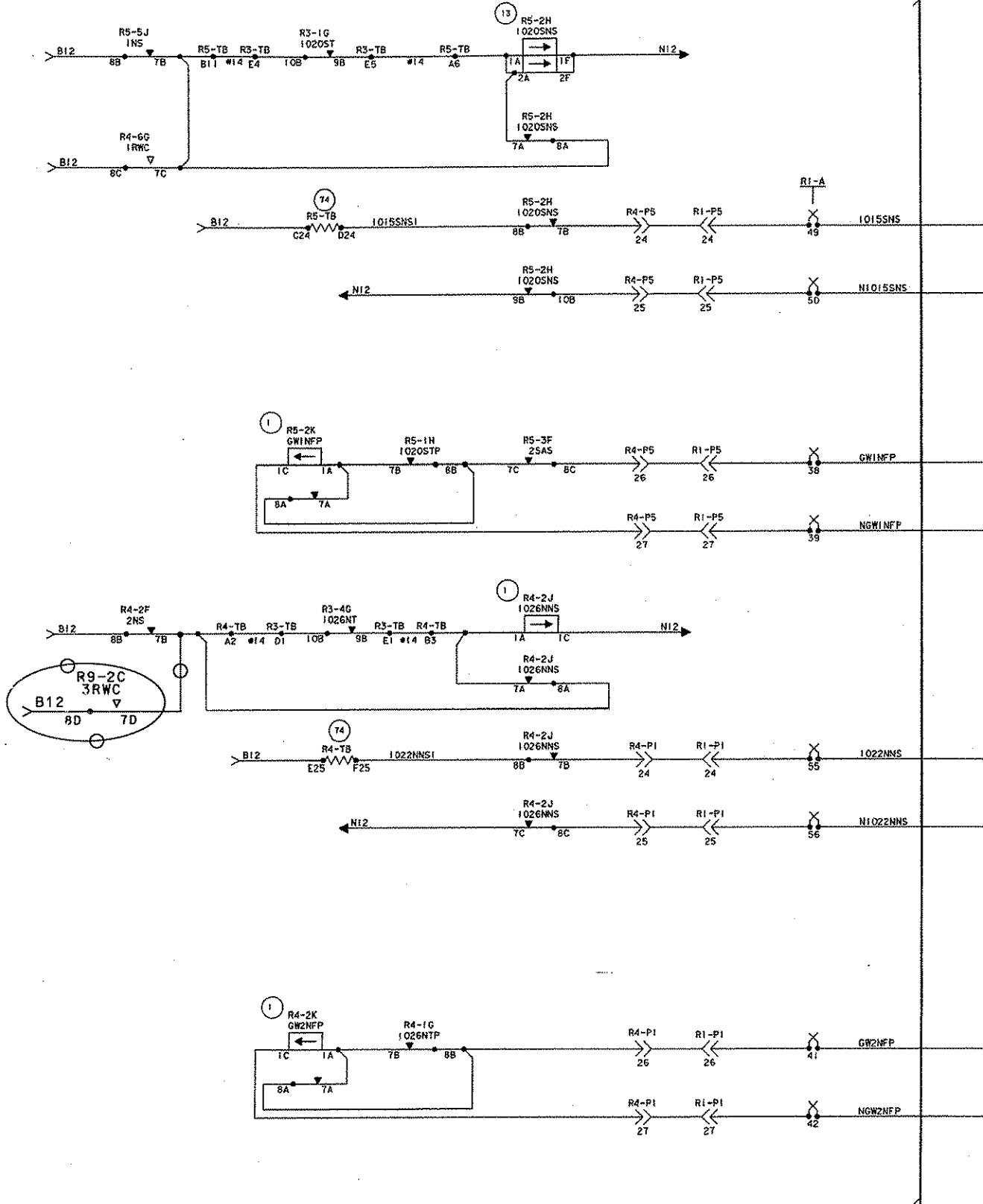
X TEST CLIP REF. #91

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 436



NON-VITAL LINE CIRCUITS SOUTH		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		APPROVED	DATE
S-0	004220	SH 1022-4A	1022-5
TESTED WLL	11-10-83		
COIN WLL	11-10-83		
TRACED			
CREATED SJM	12-19-83		
O			
K			
FOR WIRING		UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEY, PA 15218	T 1373

WOOD STREET RELAY ROOM

CONT'D ON
SH. 1008-3
(TO GATEWAY
RELAY ROOM)

SIGNATURE

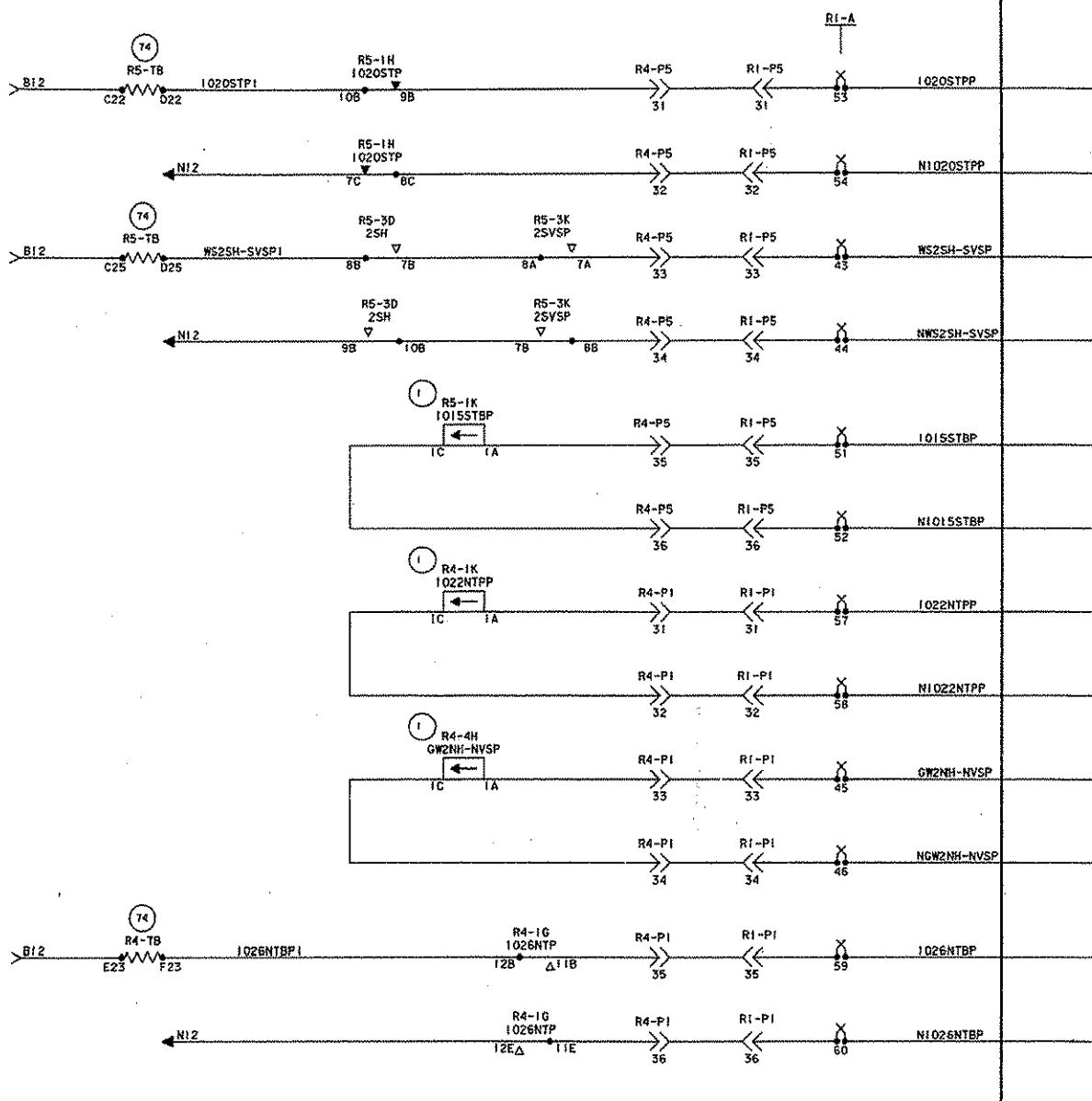
NOTES:
CASE WIRING THIS SHEET #20,
UNLESS NOTED.
X = TEST CLIP REF. 291

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 437

TRAFFIC LOCKING CIRCUITS-NORTH		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		APPROVED	DATE
G.O. 804220	DATE	SH 1022-5	1022-6
DESIGNED WILL	10-20-83	CON'D ON	
DRAWN WILL	10-20-83		
TRACED			
CHECKED SJM	12-19-83		
O			
K			
FOR WIRING		SS UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEY, PA 15218	T1373

REVISIONS

WOOD STREET RELAY ROOM



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UNLESS NOTED.

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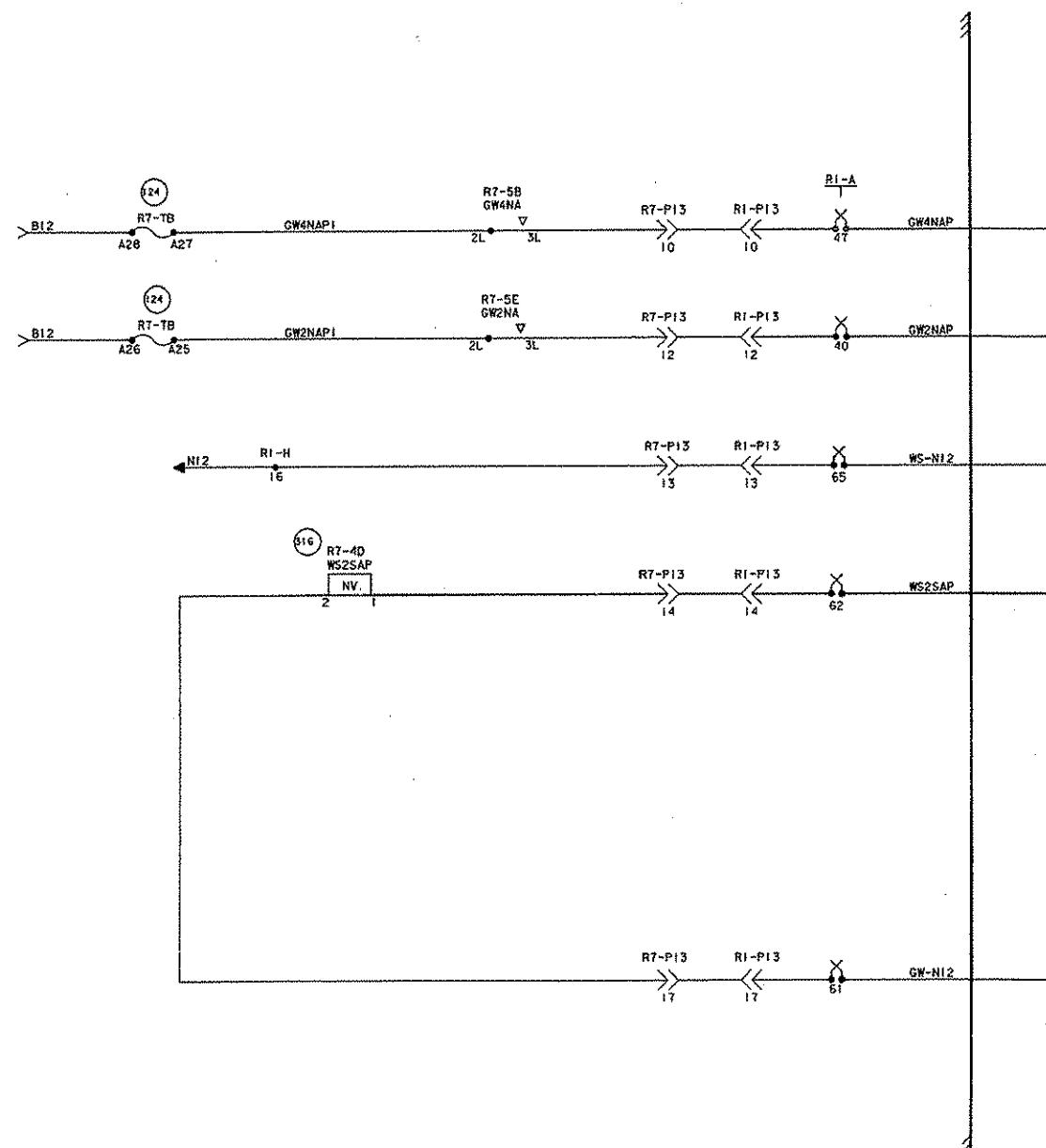
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 438

LINE CIRCUITS-NORTH **WOOD STREET**

REVISIONS		<p>PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.</p>	REFERENCES	<table border="1"> <tr><td>SCALE: 1/4"</td><td>NAME: 804220</td></tr> <tr><td>DATE:</td><td>10-21-83</td></tr> <tr><td>DESIGNED BY:</td><td>LL</td></tr> <tr><td>DRAWN BY:</td><td>LL</td></tr> <tr><td>TRACED BY:</td><td></td></tr> <tr><td>CHECKED BY:</td><td>SJM</td></tr> <tr><td>O:</td><td></td></tr> <tr><td>K:</td><td></td></tr> <tr><td colspan="2">FOR WIRING</td></tr> </table>	SCALE: 1/4"	NAME: 804220	DATE:	10-21-83	DESIGNED BY:	LL	DRAWN BY:	LL	TRACED BY:		CHECKED BY:	SJM	O:		K:		FOR WIRING		PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS	APPROVED SH 1022-6	DATE 1022-6A
				SCALE: 1/4"	NAME: 804220																				
DATE:	10-21-83																								
DESIGNED BY:	LL																								
DRAWN BY:	LL																								
TRACED BY:																									
CHECKED BY:	SJM																								
O:																									
K:																									
FOR WIRING																									
		 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEALE, PA 15218	T1373																						

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WOOD STREET RELAY ROOM



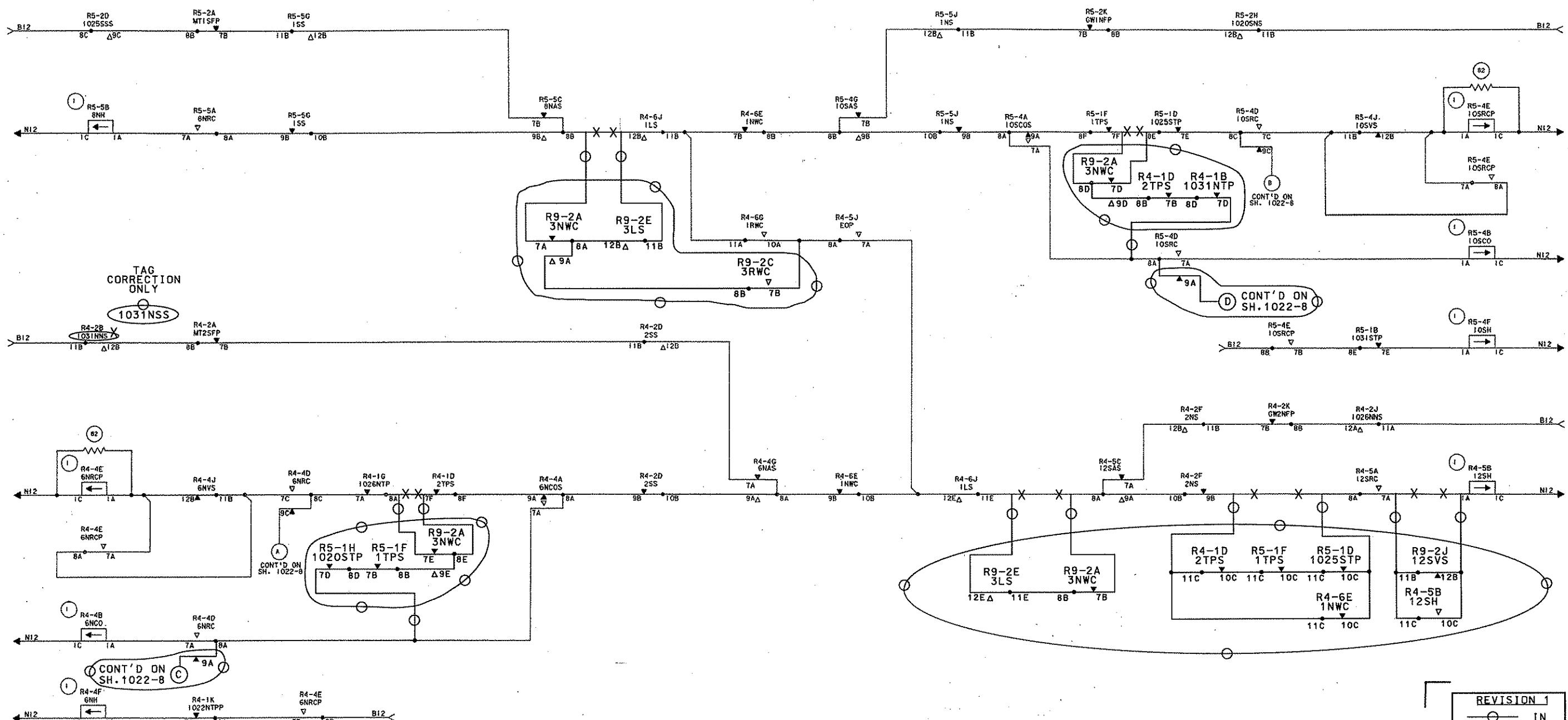
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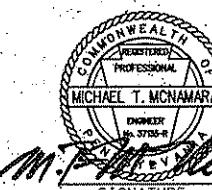
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 439

NON-VITAL LINE CIRCUITS NORTH		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS			
REVISIONS	PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NONE G.O. 804220 DATE DESIGNED W.L. 11-10-83 DRAWN W.L. 11-10-83 TRACED CHECKED S.J.M. 12-19-83 O K FOR WIRING
			APPROVED DATE SH 1022-6A 1022-7
			UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218
			T1373

WOOD STREET RELAY BO



NOTE: CASE WIRING THIS SHEET #20.
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PRIOR TO BEING PLACED IN REGULAR SERVICE,
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SELECTION (BREAKDOWN) AND SERVICE OPERATIONS
TESTS OF THE COMPLETE SYSTEM OR SECTION
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REFERENCES

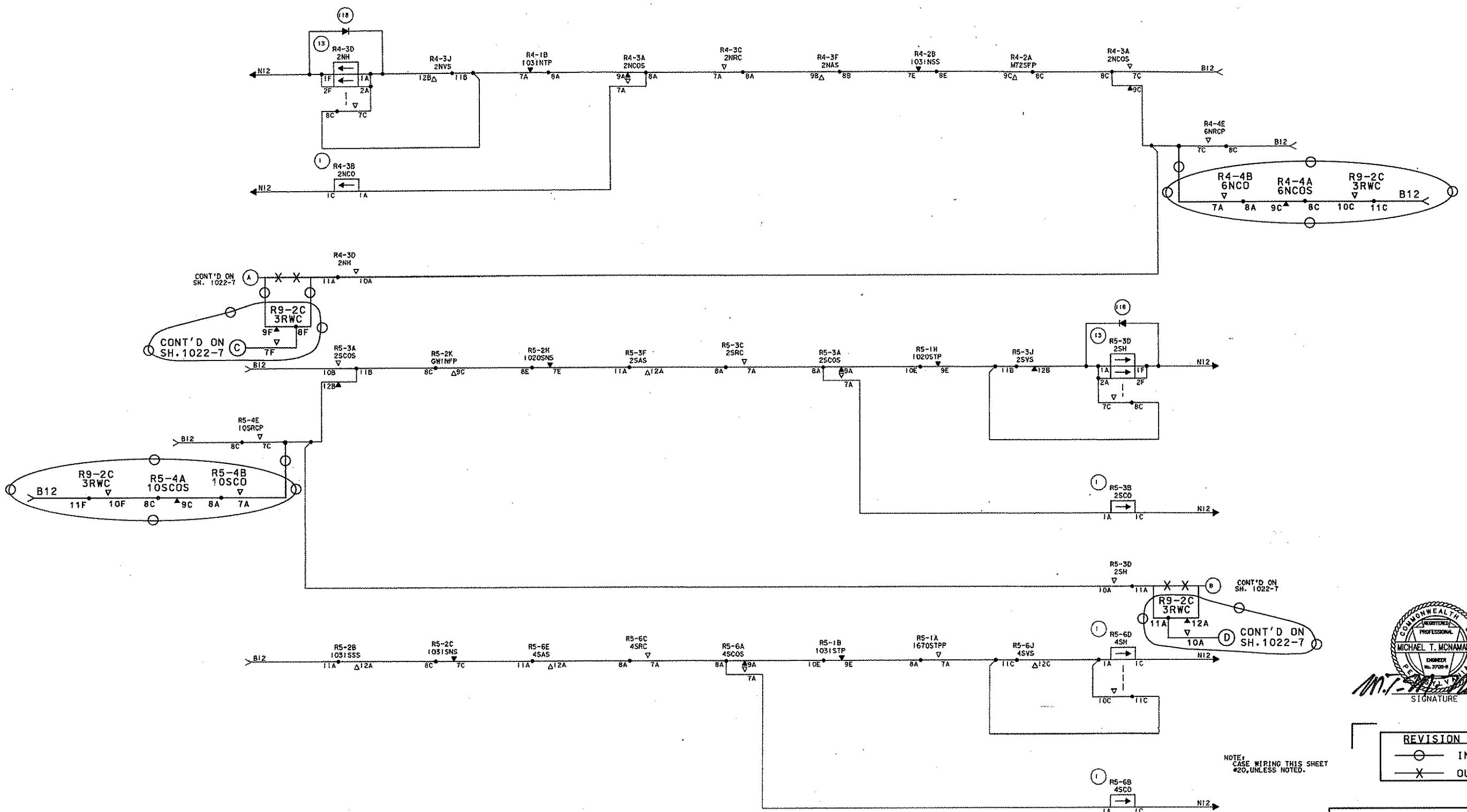
SIGNAL CONTROL CIRCUITS
6N, 8N, 10S, 12S
RT AUTHORITY OF ALLEGHENY C
AGE 1 LIGHT RAIL TRANSIT SY
CONTRACT NUMBER CY-111

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 440

SIGNAL CONTROL CIRCUITS
6N, 8N, 10S, 12S
RT AUTHORITY OF ALLEGHENY C
AGE 1 LIGHT RAIL TRANSIT SY
CONTRACT NUMBER CY-111

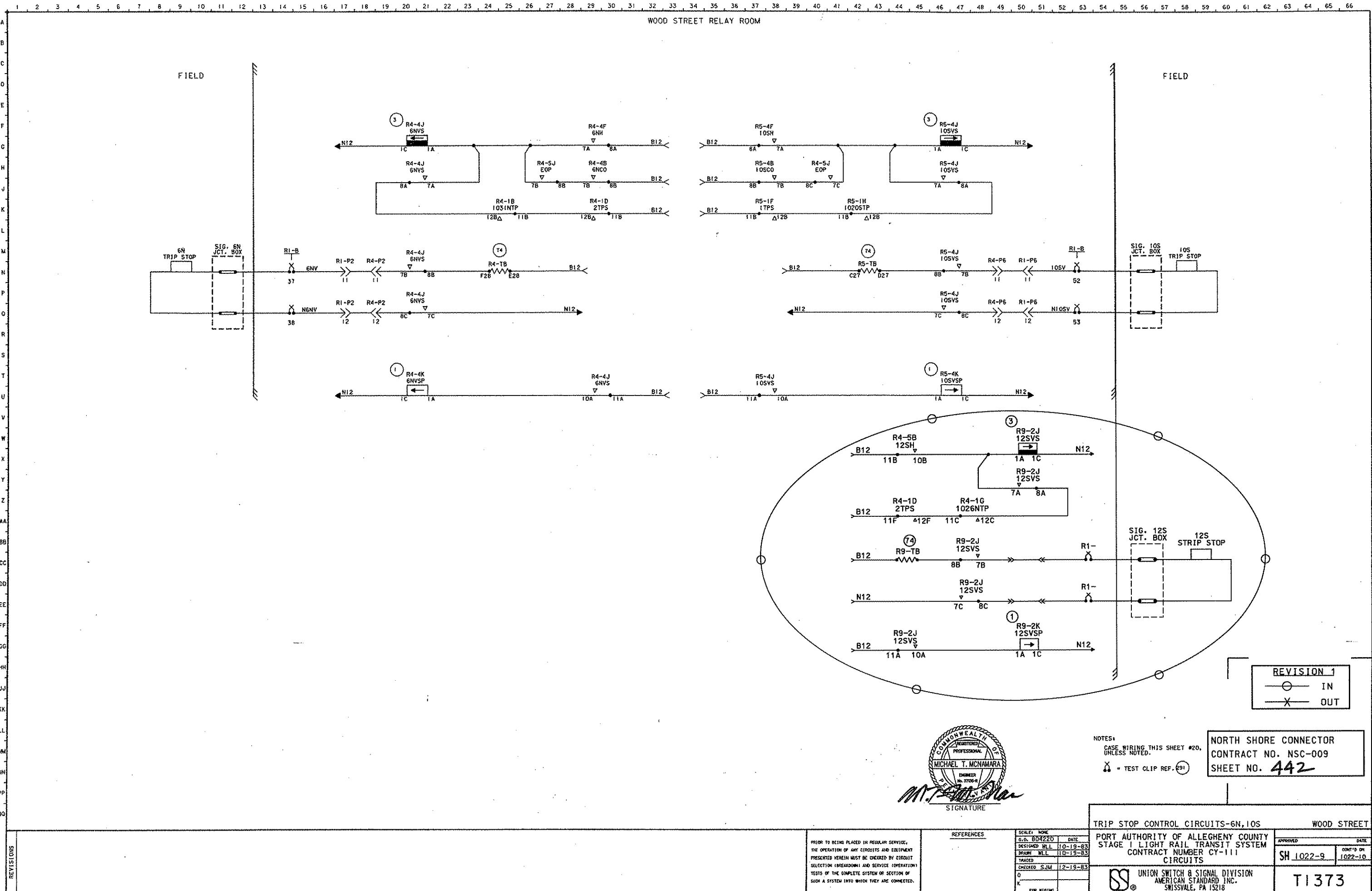
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REVISIONS		PRIORITY PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NAME G.G. 804220 DATE DESIGNED BY: L. (10-19-83) DRAWN BY: MAC (6-25-84) CHECKED: (initials) CHECKED S.J.M. 12-19-83 0 FOR WIRING K	SIGNAL CONTROL CIRCUITS - 2N, 2S, 4S		APPROVED SH 1022-8 DATE CONT'D ON 1022-8
					WOOD STREET	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS	
						UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMYSSVILLE, PA 15218	T1373

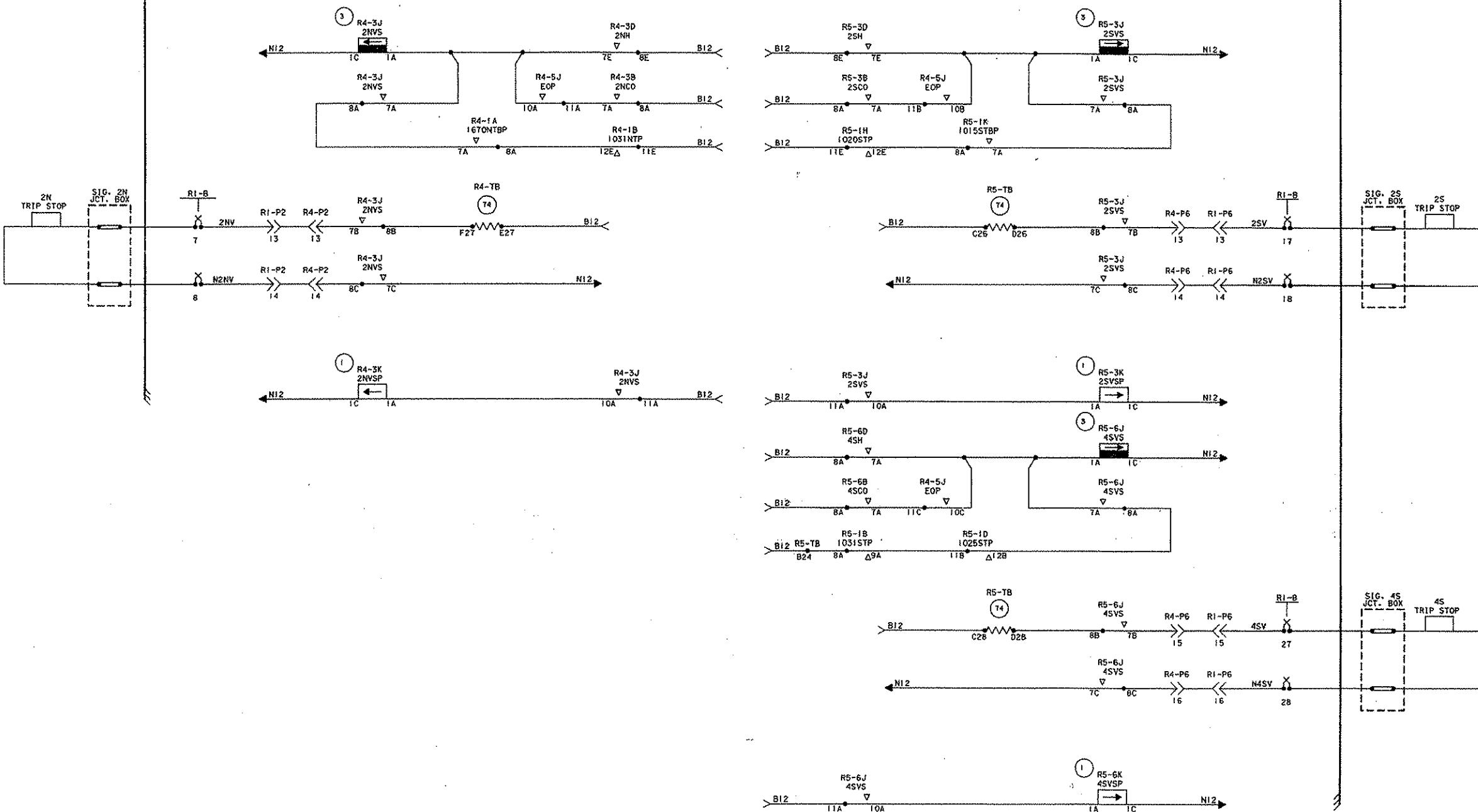
WOOD STREET RELAY ROOM



WOOD STREET RELAY ROOM

FIELD

FIELD



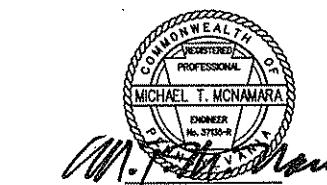
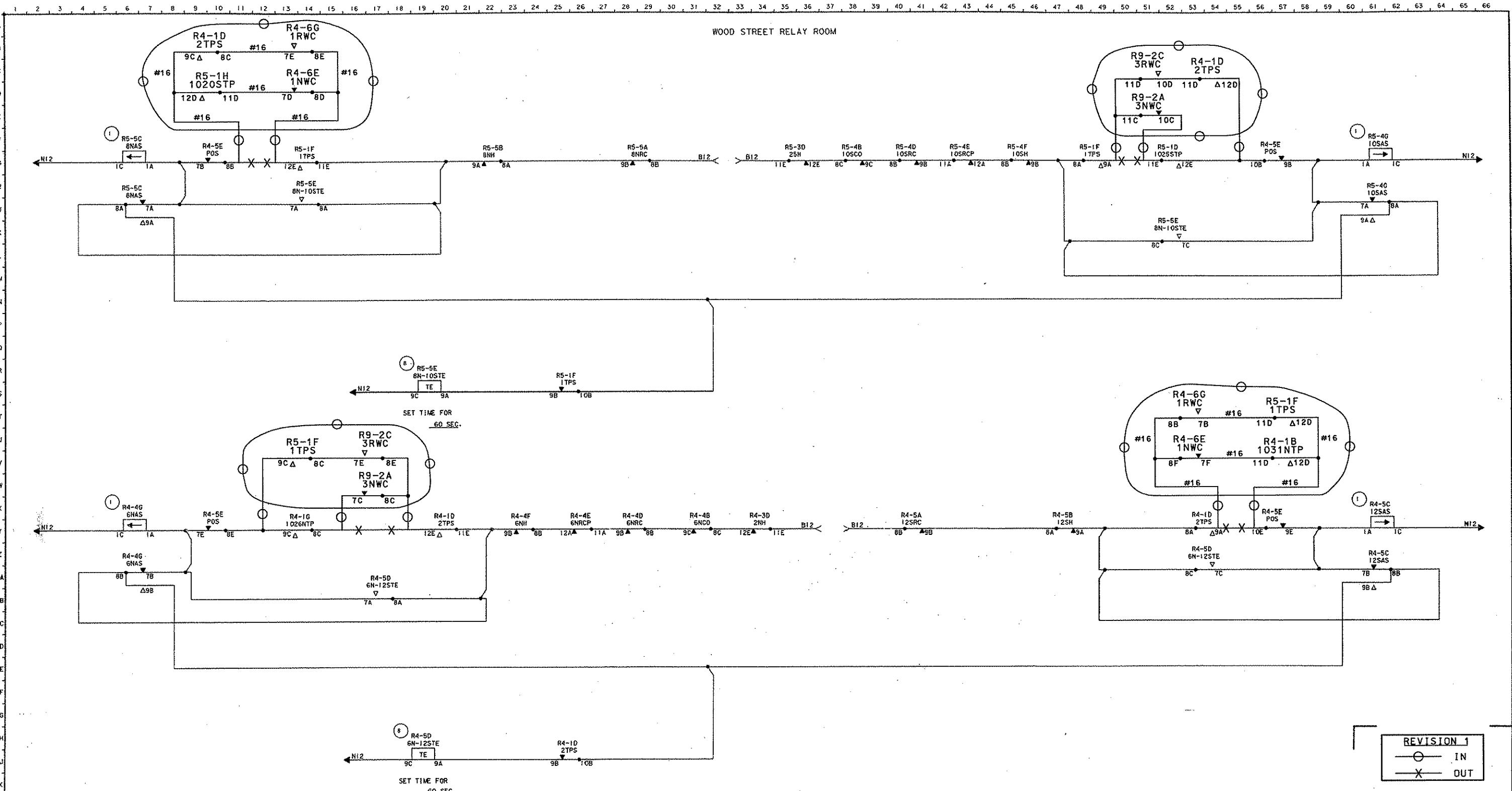
NOTES:

CASE WIRING THIS SHEET #20,
UNLESS NOTED.

X = TEST CLIP REF. 291

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 443

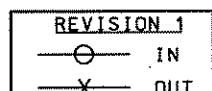
TRIP STOP CONTROL CIRCUITS-2N, 2S, 4S		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED DATE SH 1022-10 1022-11
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE OPERATION TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NONE G.O. 804220 DATE DESIGNED NLL 10-21-85 DRAWN NLL 10-21-85 TRACED CHECKED SUM 12-19-85 O K FOR WIRING
		UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218
		T1373



SIGNATURE

NOTE:
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UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 444

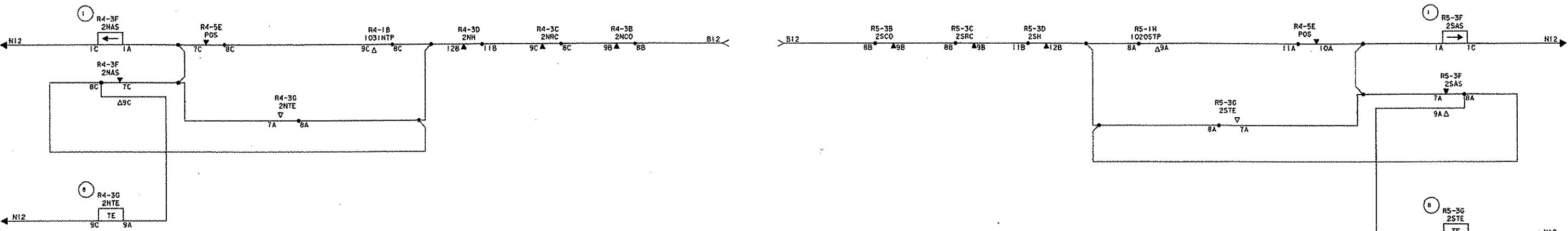


TIME LOCKING CIRCUITS		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED	DATE
SH 1022-11	1022-12		

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSVALE, PA 15218

T1373

WOOD STREET RELAY HOUSE

SET TIME FOR
60 SEC.SET TIME FOR
60 SEC.SET TIME FOR
60 SEC.NOTE: CASE WIRING THIS SHEET #20,
UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 445

REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
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SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE: NONE

G.O. 804220

DATE

10-20-83

DESIGNED W.L.

10-20-83

DRAWN W.L.

10-20-83

TRACED

CHECKED S.J.M.

12-14-83

O

X

FOR WIRING

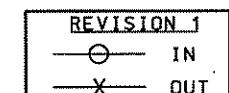
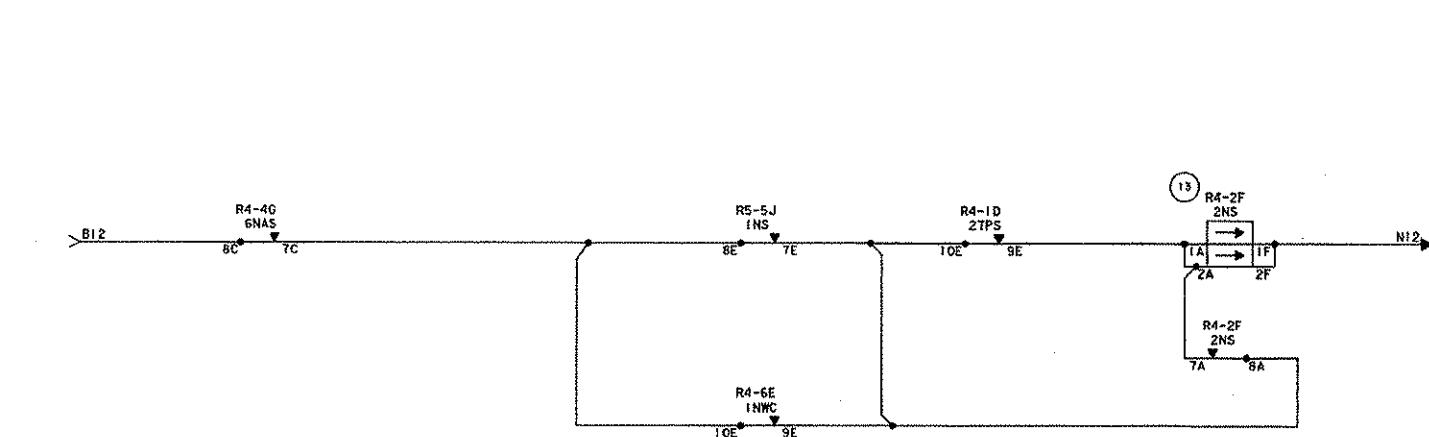
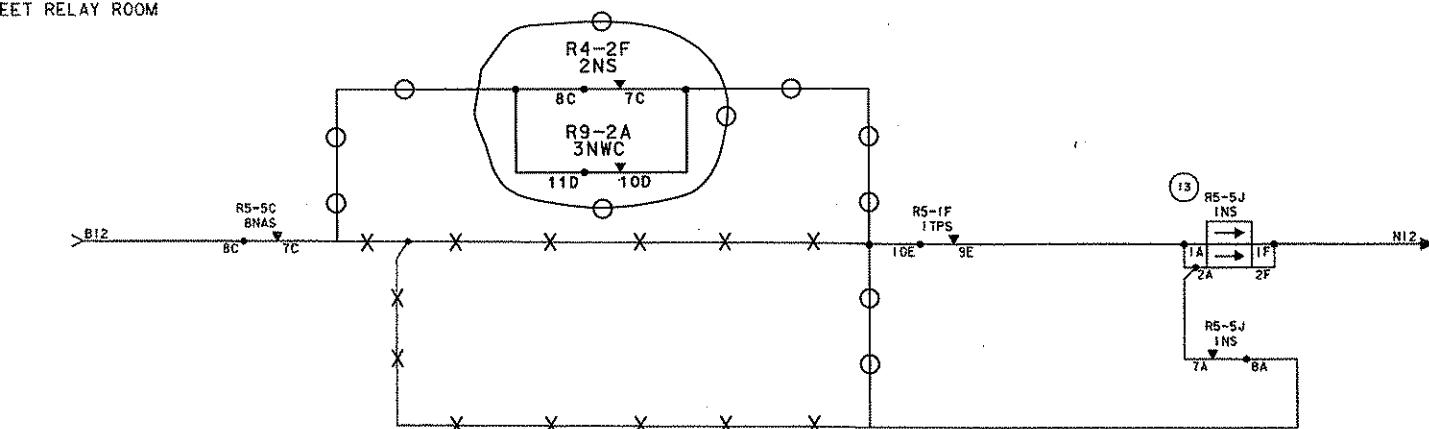
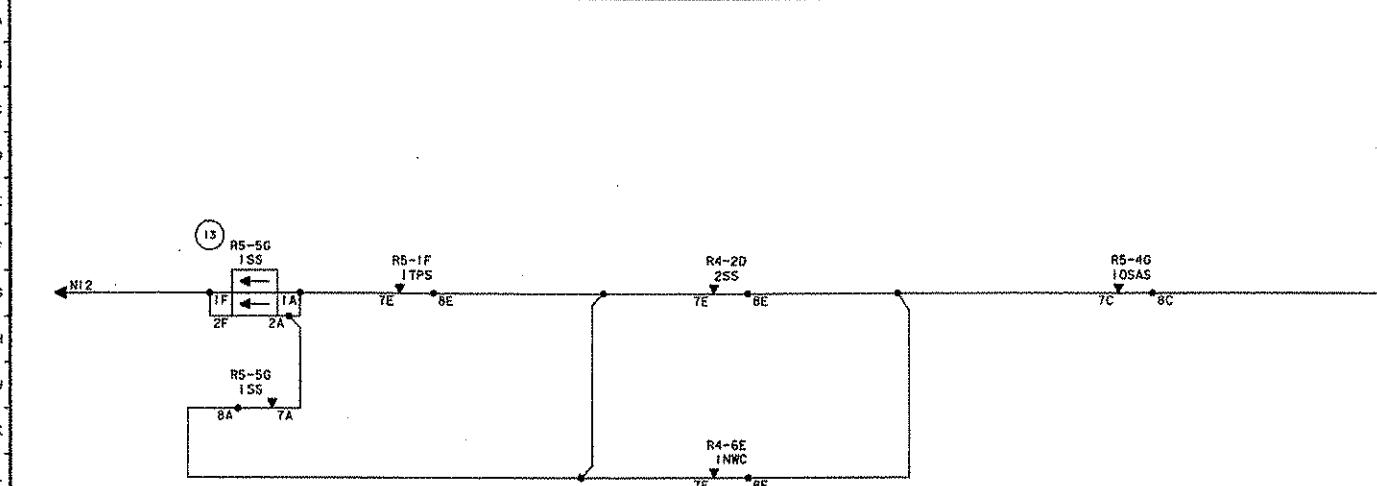
PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111
CIRCUITS

APPROVED
SH 1022-12
DATE
COM'D ON
1022-13

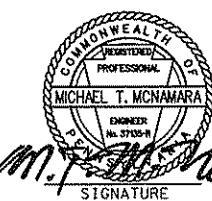
UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
MUSKOGEE, OK 74401

T1373

1 2 4 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 446



NOTE:
CASE WIRING THIS SHEET
#20 UNLESS NOTED

M. T. McNamara
SIGNATURE

ROUTE LOCKING CIRCUITS		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		
APPROVED SH 1022-13	DATE 10-19-84	
CONT'D ON T1373	DATE 10-19-84	
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD, INC. SWISSEY, PA 15218		

REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

C.G. 604220

DATE

DESIGNED PLL

10-19-84

DRAWN PLL

10-19-84

TRACED

0

CHECKED SJM

12-19-84

FOR WIRING



T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

A

B

C

D

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Z

AA

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DD

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GG

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JJ

KK

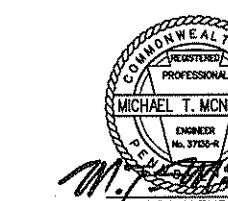
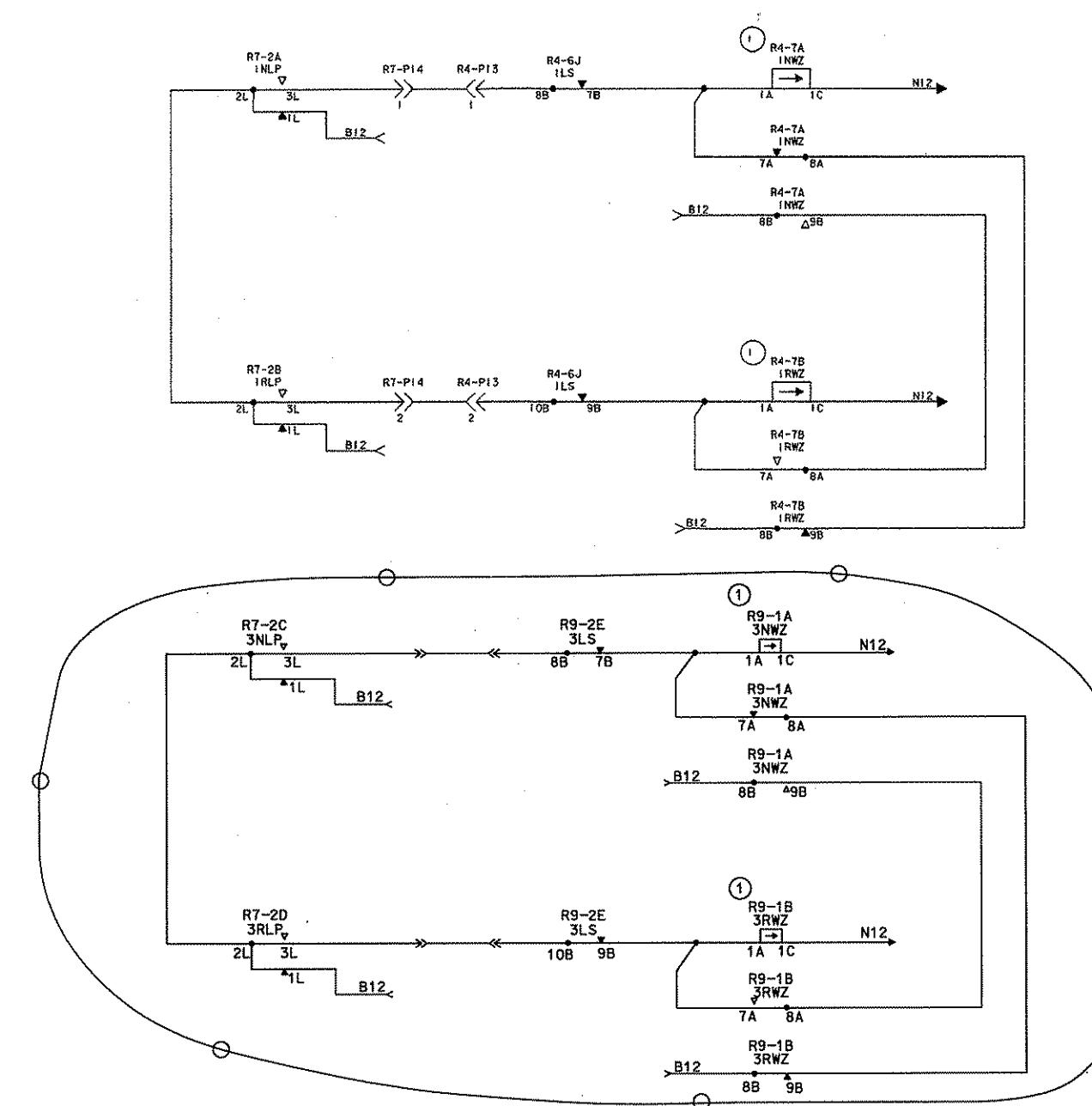
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MM

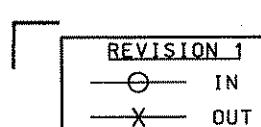
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PP

QQ



NOTE: CASE WIRING THIS SHEET
#20 UNLESS NOTED.



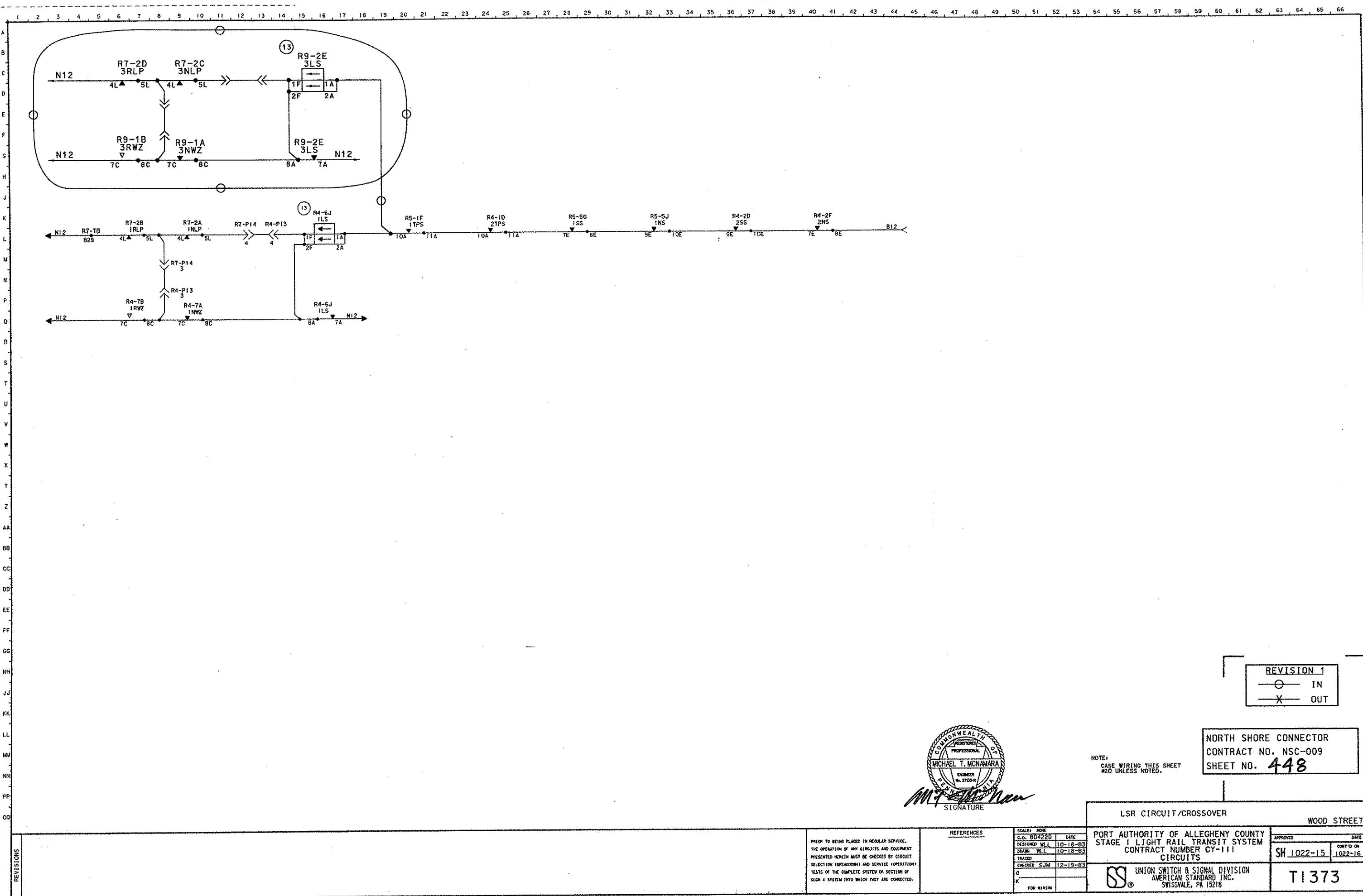
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 447

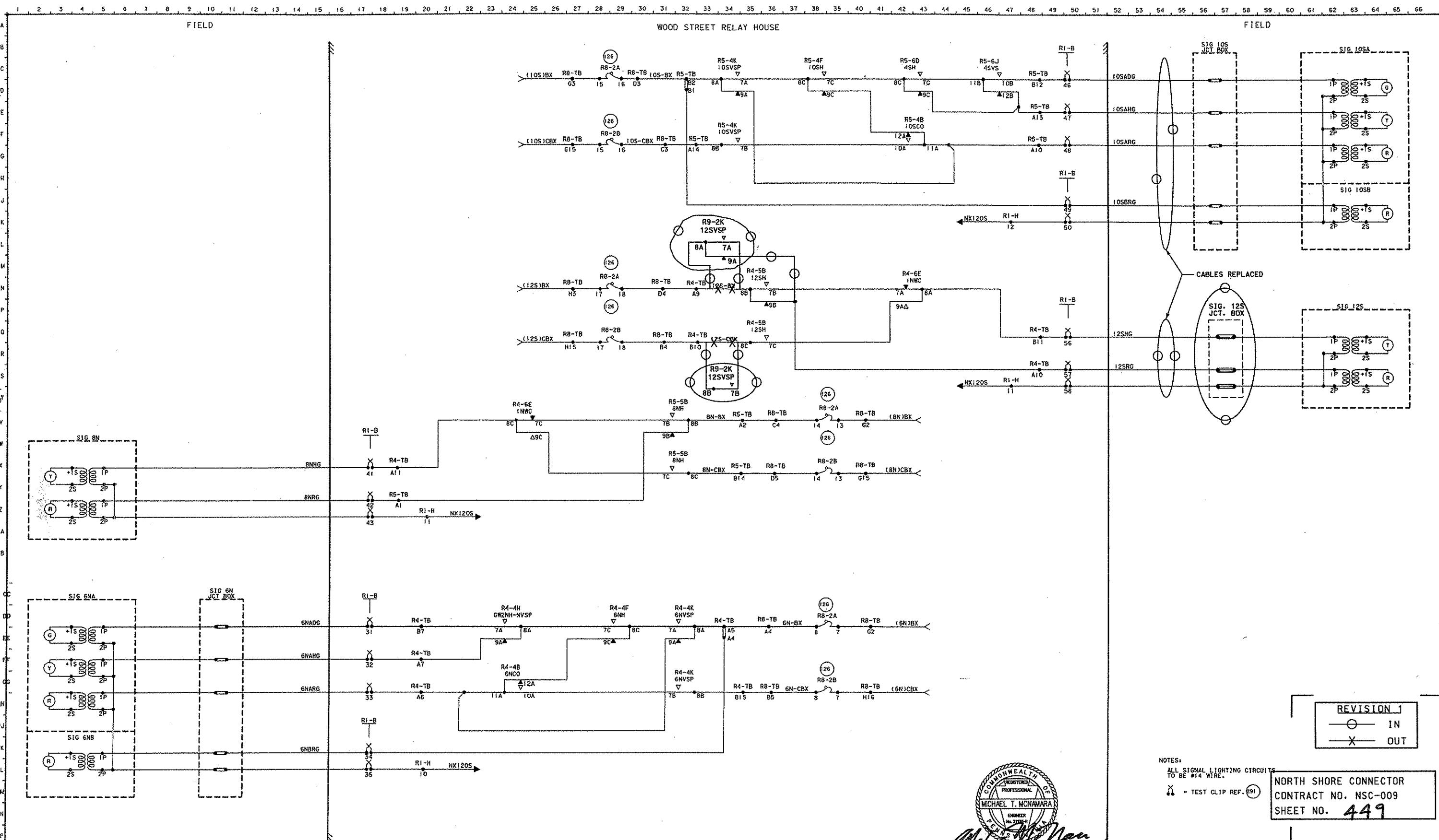
NWZ/RWZ CIRCUITS/CROSSOVER		WOOD STREET	
REVISIONS		PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS	APPROVED SH 1022-14 DATE COMFD ON 1022-15

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEVALE, PA 15218

T1373

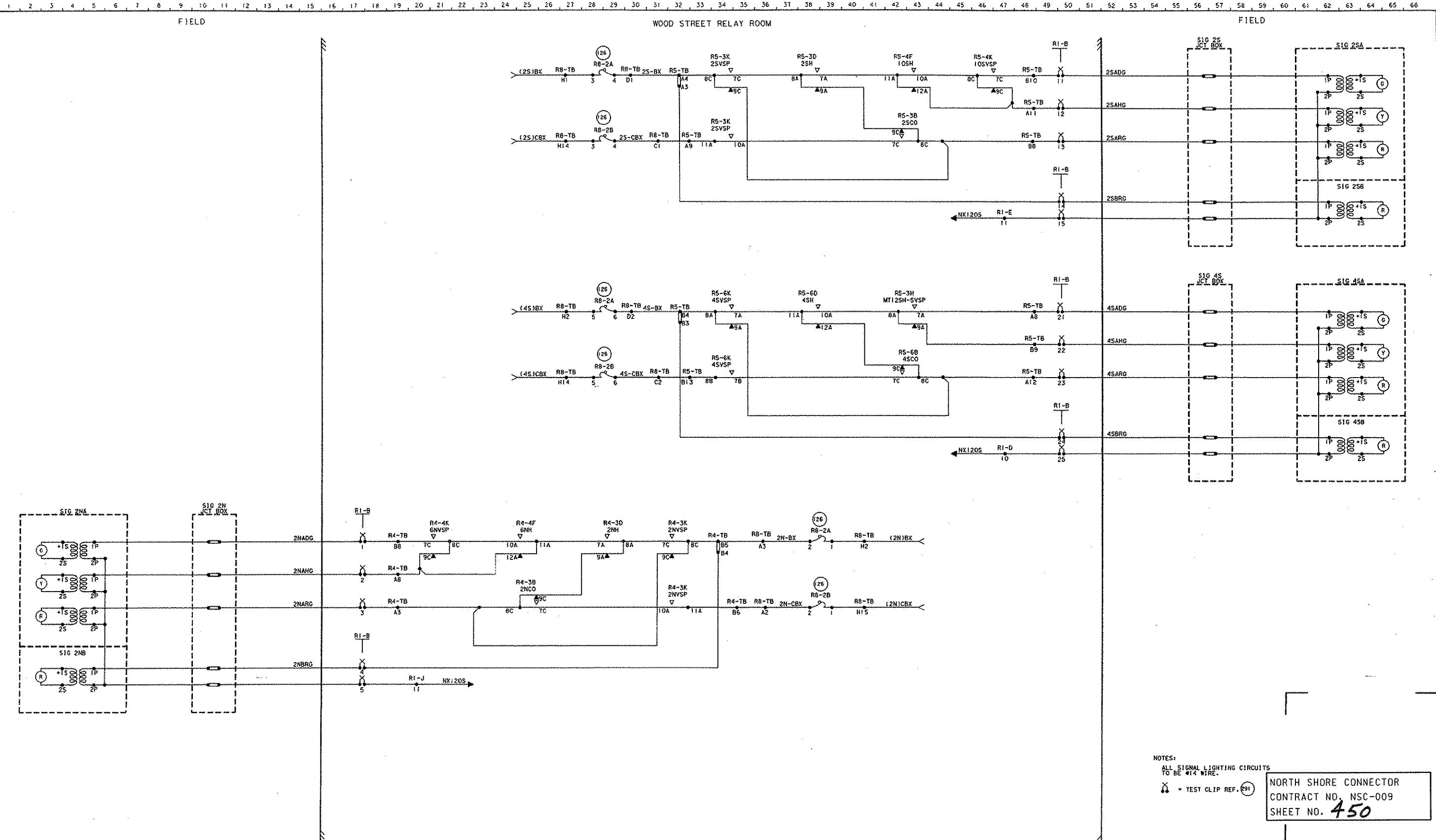
SCALE	NAME	DATE
1:64	SD4220	10-18-83
DESIGNED	WLL	10-18-83
DRAWN	WLL	10-18-83
TRADED		
DISCLOSED	SJM	12-19-83
0		
X		
	FOR WIRING	





SIGNATURE

SIGNAL LIGHTING CIRCUITS		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED	DATE
		SH 1022-16	CONT'D ON 1022-17
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T1373		



NOTES:
ALL SIGNAL LIGHTING CIRCUITS
TO BE #14 WIRE.

• = TEST CLIP REF. ⑥

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 450

REVISIONS			SIGNAL LIGHTING CIRCUITS		WIRE
			PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS	APPROVED DATE DESIGNED BY DRAWN BY TRACED CHECKED SJM O K FOR MIRROR	
			PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	SCALE: 1/4 INCH = 10 FEET 6-6 8045226 DATE 10-19-83 DESIGNED BY LLL DRAWN BY LLL TRACED CHECKED SJM 12-19-83 O K FOR MIRROR	APPROVED DATE SH 1022-17 CONT'D ON 1022-18 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218 T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

A

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J

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Q

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W

X

Y

Z

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CC

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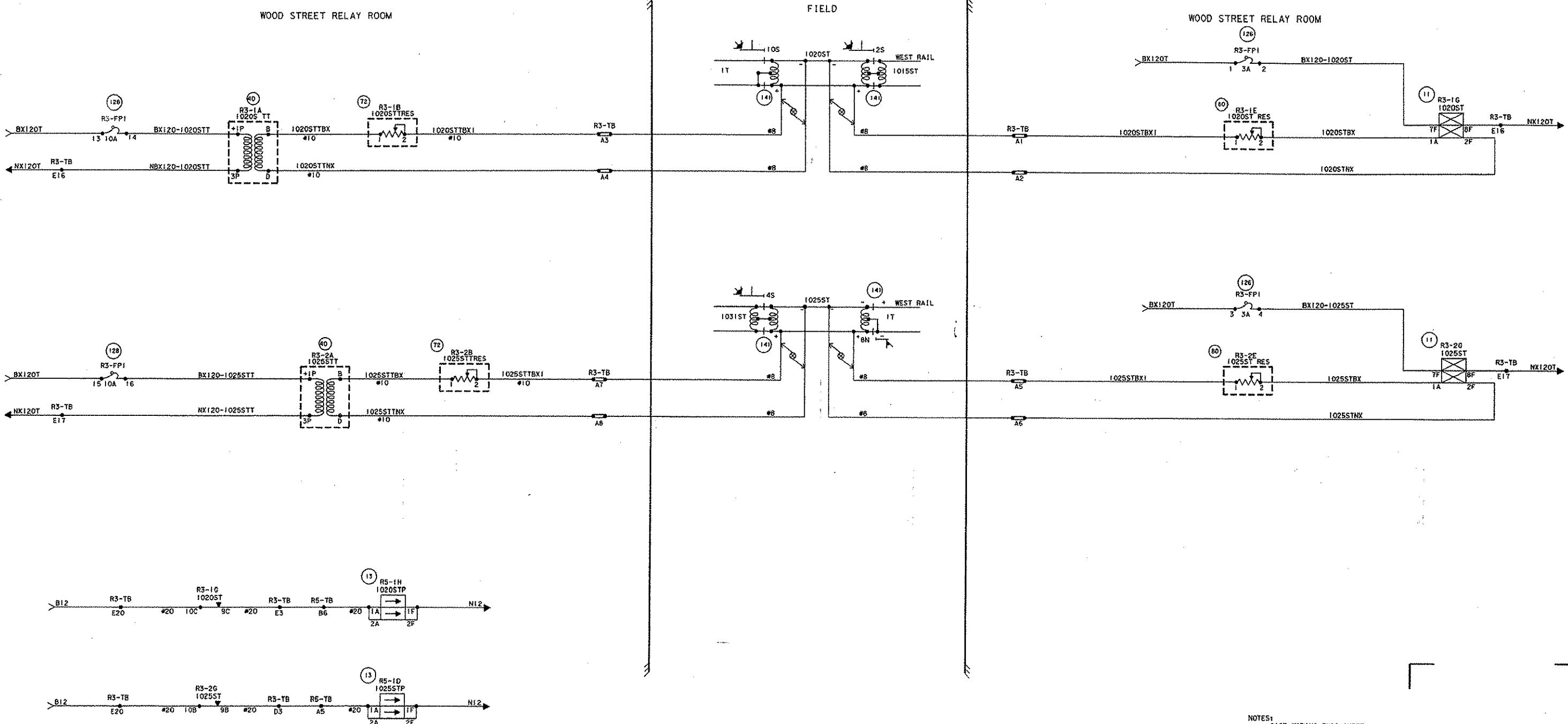
KK

LL

MM

NN

PP



NOTES:
CASE WIRING THIS SHEET
#14, UNLESS NOTED.

⊗ = TWISTED PAIR

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 451

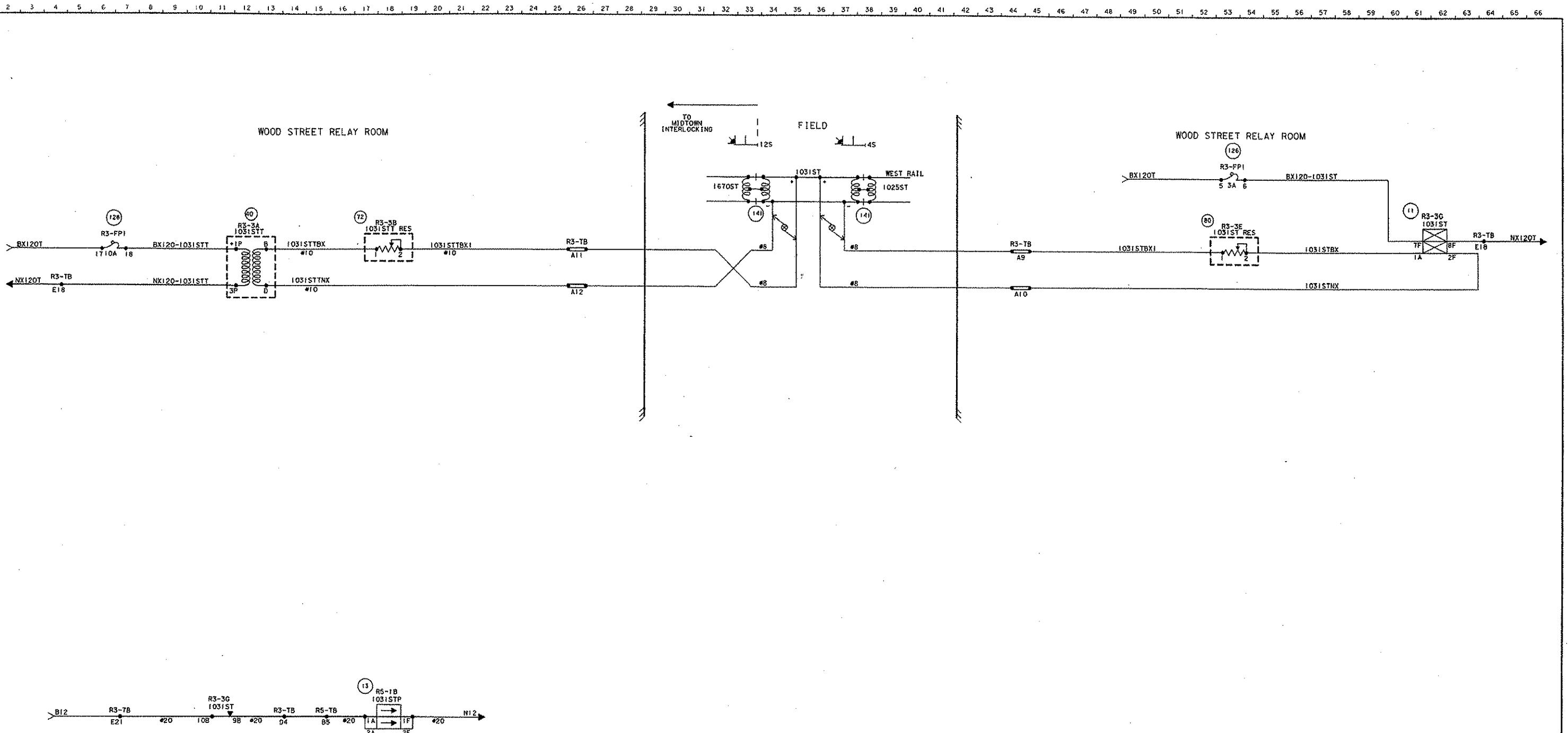
TRACK CIRCUITS 1020ST, 1025ST		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED DATE SH 1022-18 1022-19 COM'D ON	
SCALE: 1/250	DATE: 10-13-83	DESIGNED BY: J.L.	DRAWN BY: J.L.
TRACED:	10-13-83	CHECKED: S.J.M.	12-19-83
FOR WIRING:		K	
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218	TI 373	

REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (PREASSEMBLY) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

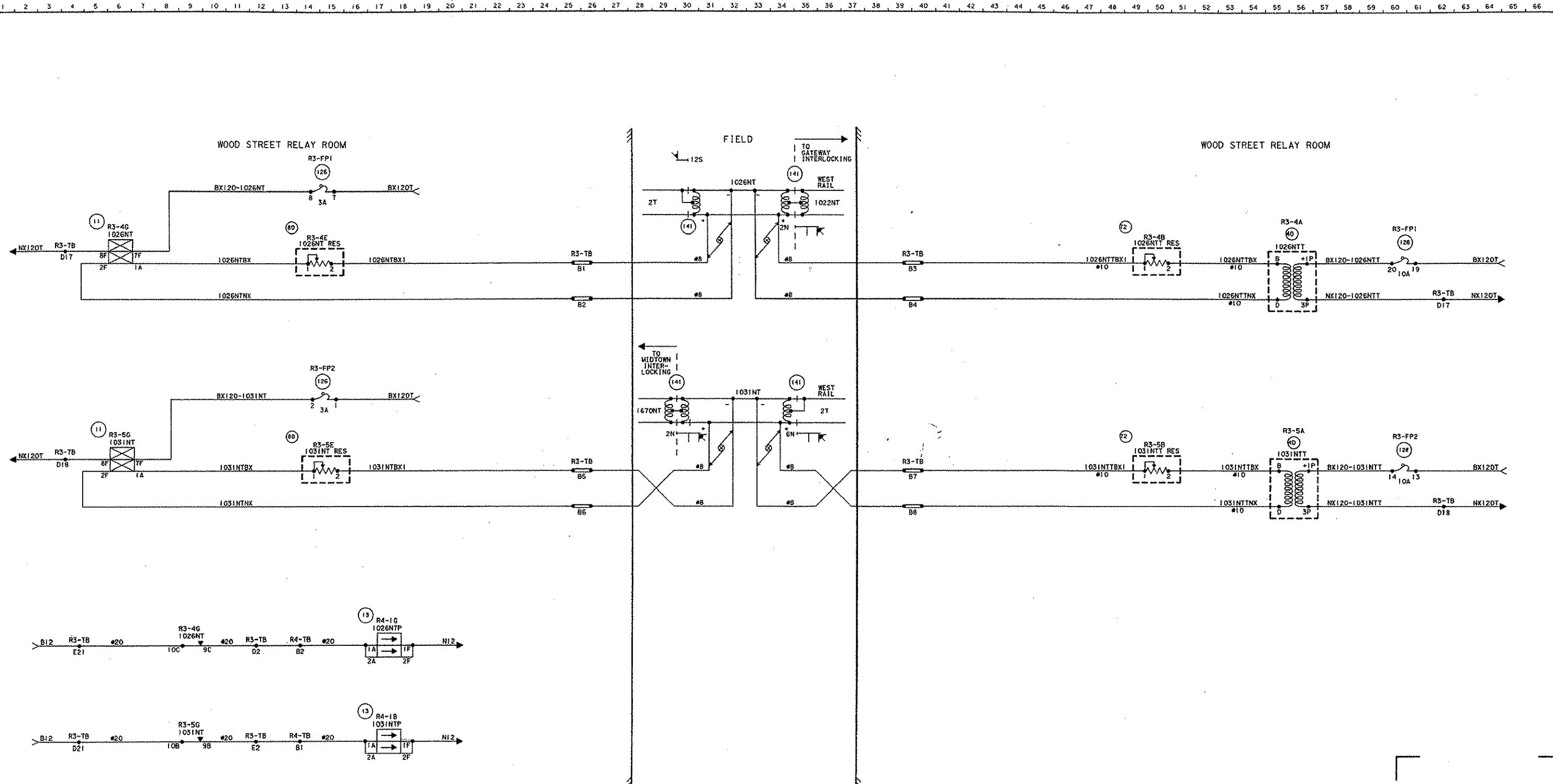
SCALE: 1/250
DATE: 10-13-83
DESIGNED BY: J.L.
DRAWN BY: J.L.
TRACED:
CHECKED: S.J.M.
12-19-83
FOR WIRING:
K



NOTES:
CASE WIRING THIS SHEET
#14, UNLESS NOTED.
⊗ -TWISTED PAIR

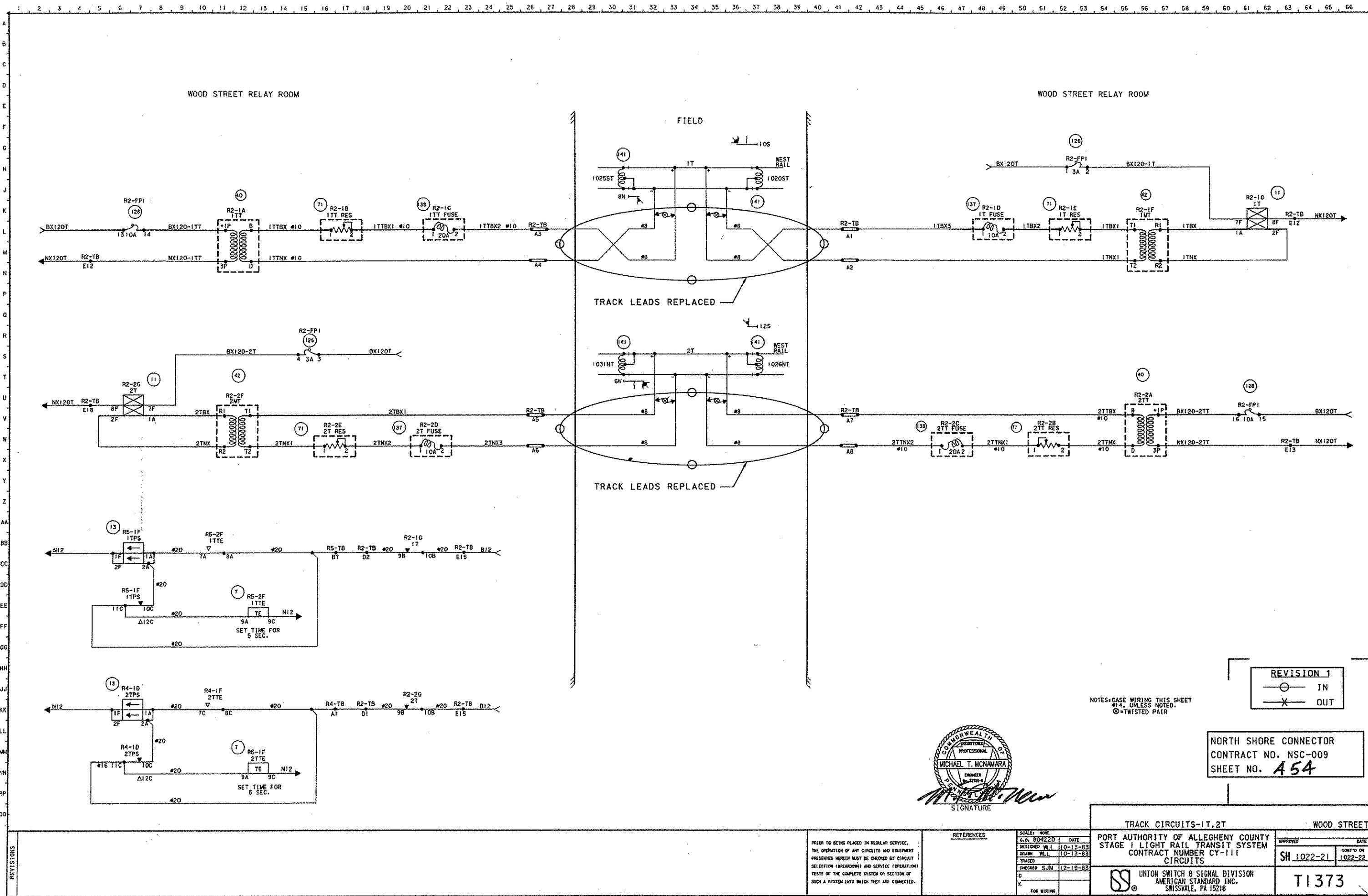
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 452

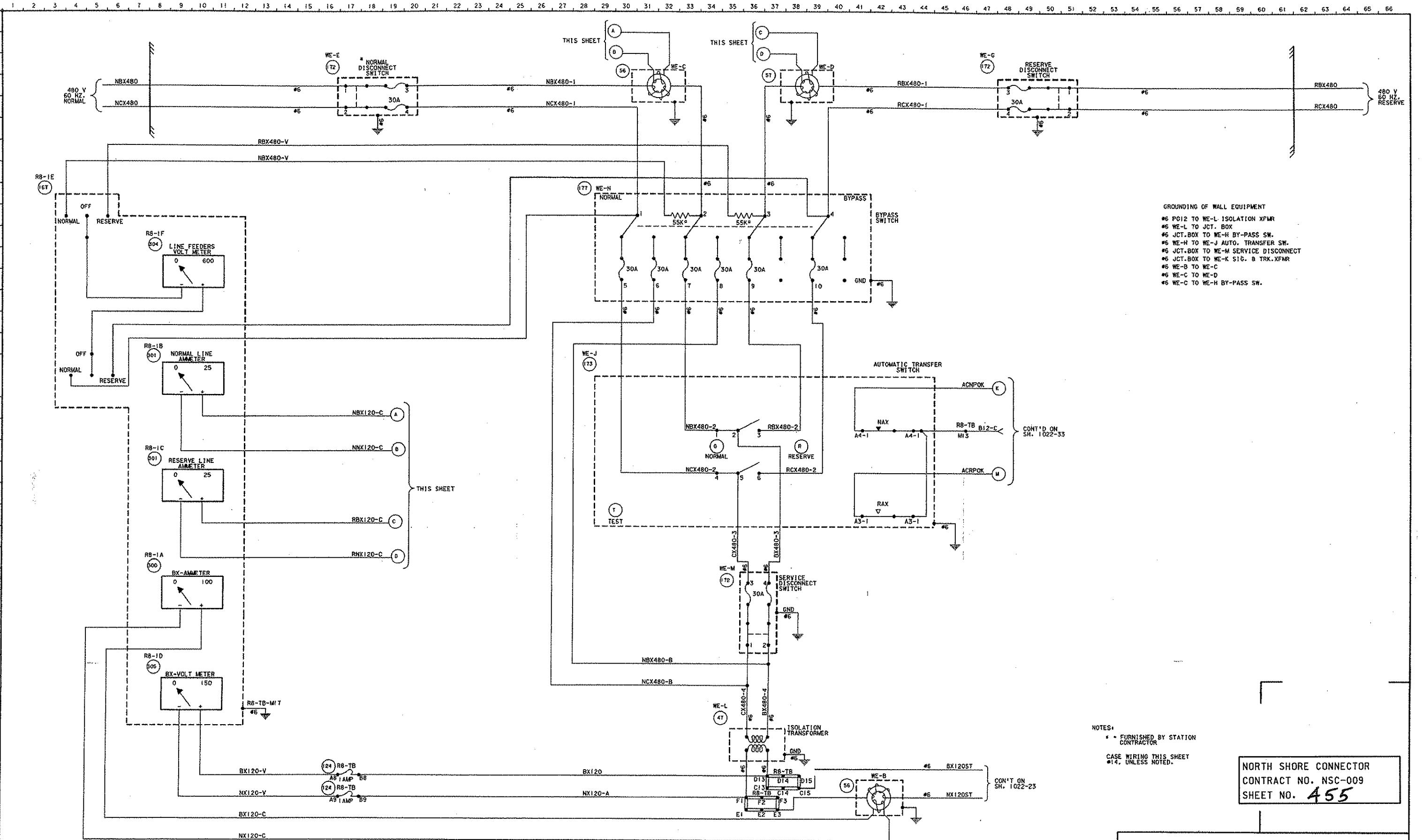
REVISIONS		<p>PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (RANDOM) AND SERVICE OPERATIONS TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.</p>	REFERENCES	SCALE: NONE	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-1111 CIRCUITS	TRACK CIRCUITS-1031ST	WOOD STREET
				C.G. 804220		DATE 10-17-83	APPROVED SH 1022-19
	DESIGNED JPM	DRAWN MAC 5-23-84	CONT'D ON 1022-20				
	TRACED						
	CHECKED SJM	12-19-83					
	O						
	K	FOR WIRING					
				 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218			
				T1373			



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 453

TRACK CIRCUITS-1026NT/103INT		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED	DATE
REVISIONS	PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (SPECIFICATION) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SPEC. NO. 804220 DESIGNED BY L. 10-18-83 DRAWN MAC 5-23-84 TRACED CHECKED SJM 12-19-83 0 FOR WIRING X FOR WIRING
			SH 1022-20 1022-21
			UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218
			T1373





REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICES (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE

NAME

DESIGNED

DATE

DRAWN

DATE

TRACED

CHECKED

DATE

APPROVED

DATE

CONT'D ON

SH

1022-22

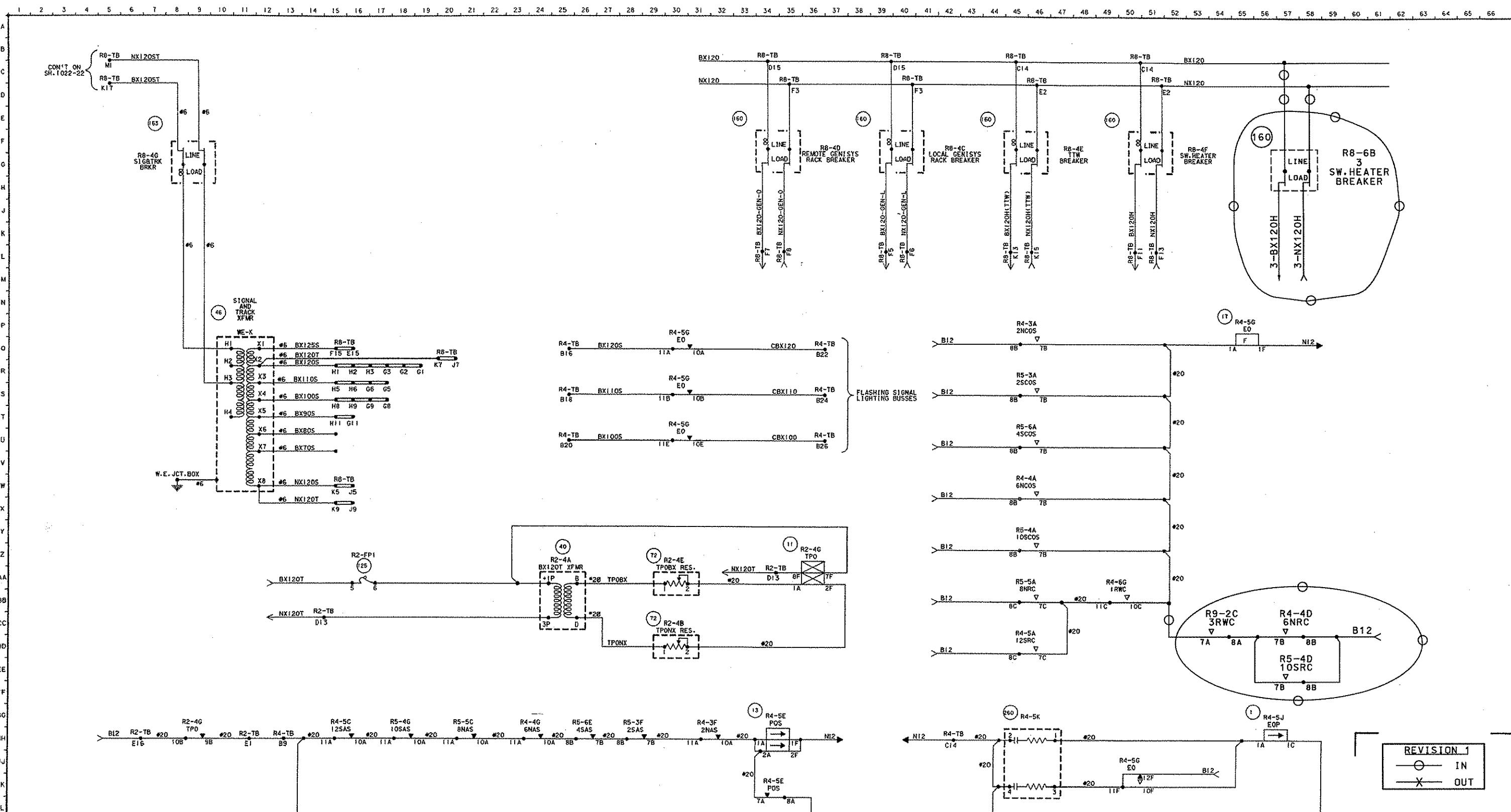
1022-23

PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE 1 LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-III
CIRCUITS

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSVALE, PA 15218

WOOD STREET
1022-22
1022-23

T1373

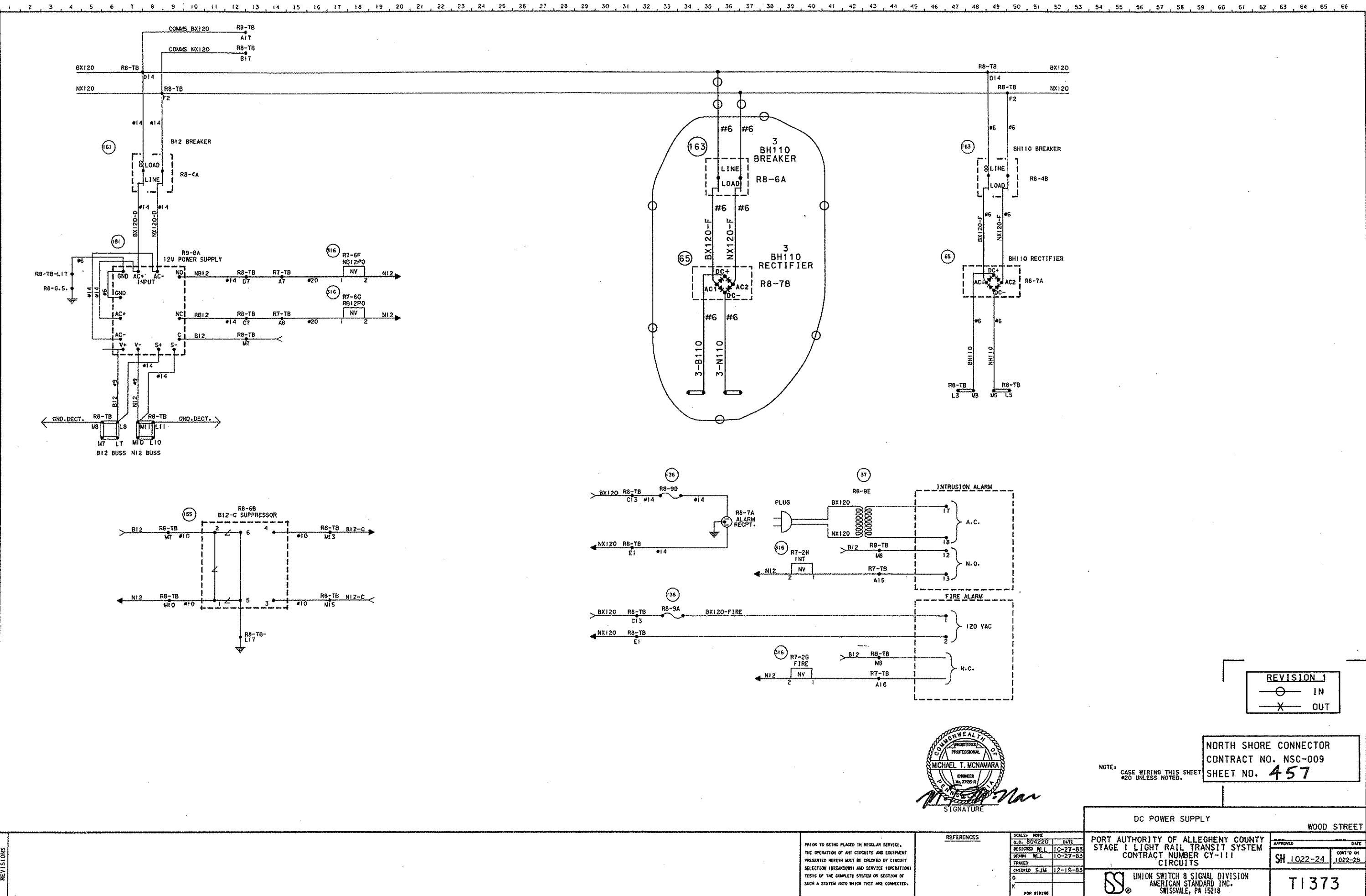


SIGNA

NOTES:
CASE WIRING THIS SHEET
*14. UNLESS NOTED,
* ALL SECONDARY TAPS CONNECTED
TO BUSS AT TERMINAL BOARDS.

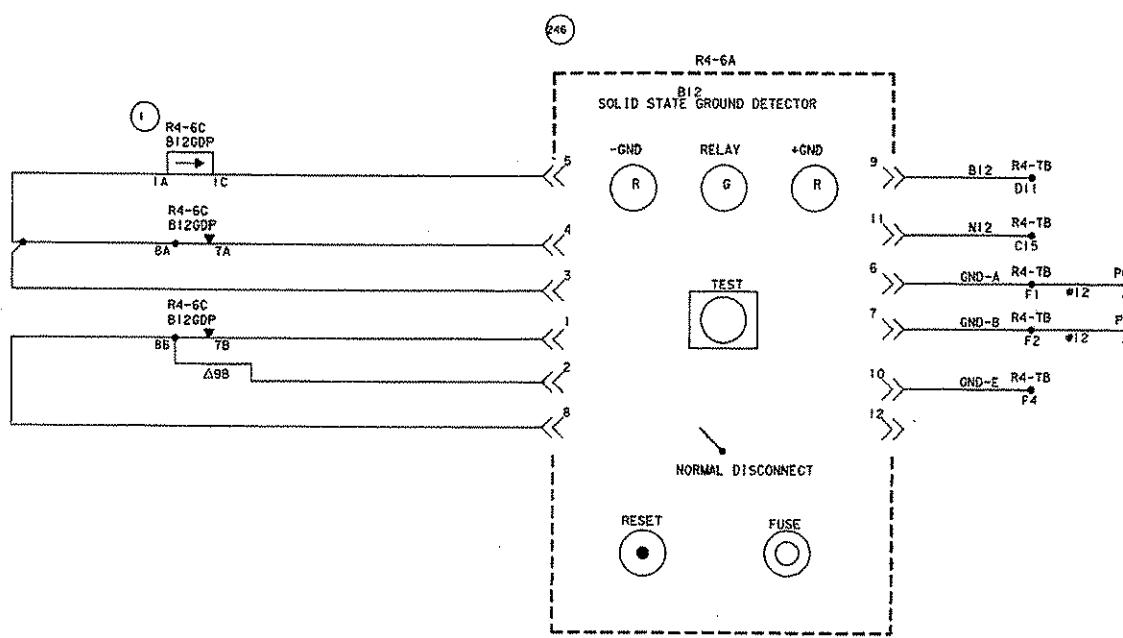
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 156

AC POWER SUPPLY SH.2		WOOD STREET	
TE -83 -83 -83	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS	APPROVED	DATE
		SH 1022-23	CONT'D ON 1022-24
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEYALE, PA 15218	T1373	



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

WOOD STREET RELAY ROOM



NOTE:
ALL WIRE TO BE #20, UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 458

REVISONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
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PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

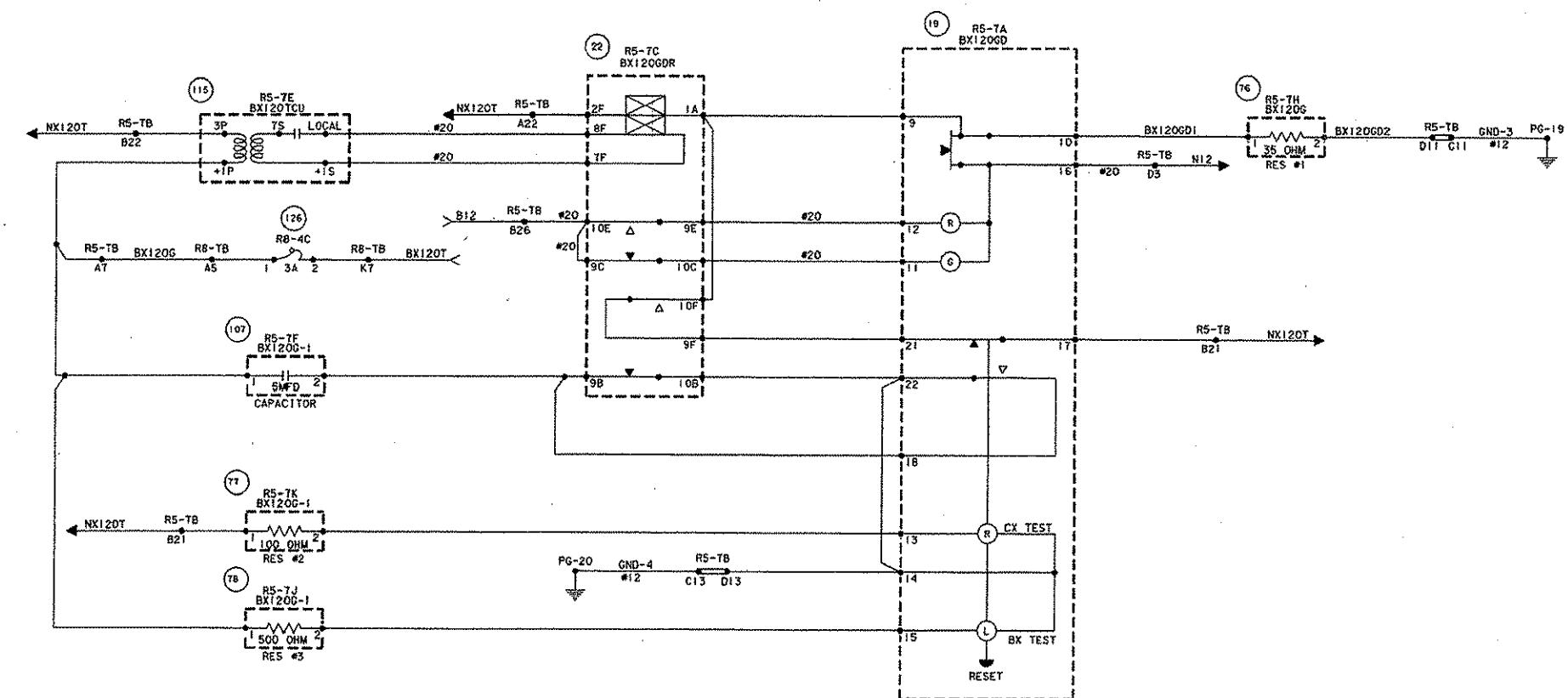
SCALE DRAWN
G.O. 804220 DATE
DESIGNED W/L 10-24-63
DRAWN W/L 10-24-63
TRACED
CHECKED SJM 12-19-63
D FOR WIRING
X

DC GROUND DETECTORS
WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111
CIRCUITS
APPROVED
DATE
SH 1022-25
CONT'D ON
1022-26

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
MISSVILLE, PA 15218

T1373

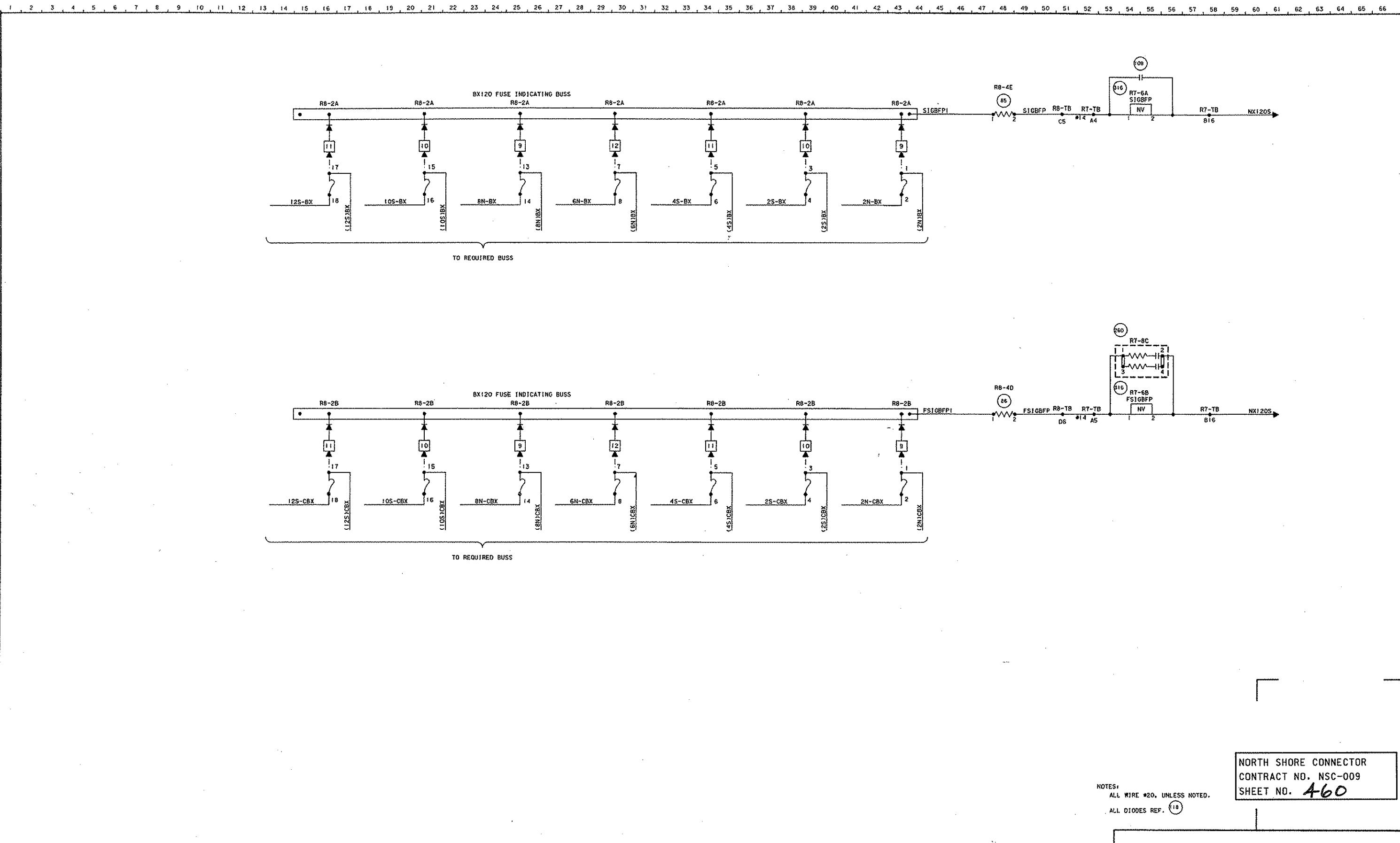
WOOD STREET RELAY HOUSE



NOTE:
CASE WIRING THIS SHEET
#14, UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 459

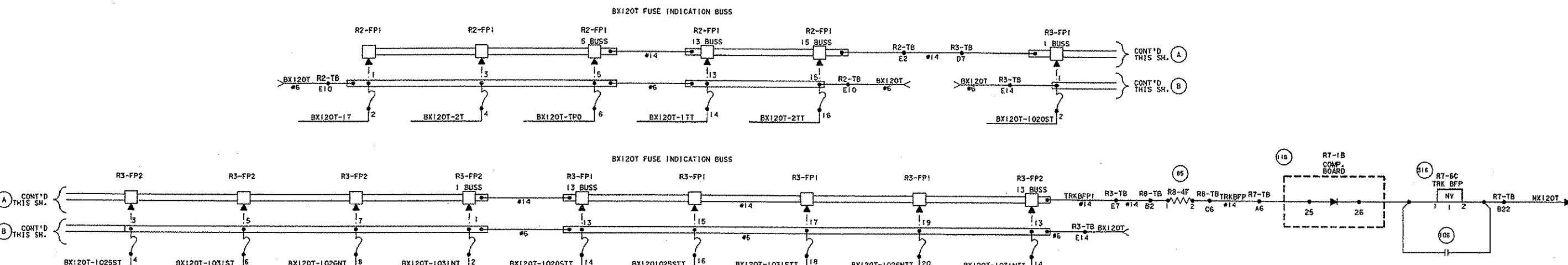
A.C. GROUND DETECTOR		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		APPROVED	DATE
G.O. 804220	DATE		
DESIGNED W/L	10-24-83	CONT'D ON	
DRAWN W/L	10-24-83	SH 1022-26	1022-27
TRACED			
CHECKED SJM	12-19-83		
O			
K			
FOR WIRING		UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T 1373



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 460

A.C. BLOWN FUSE CIRCUITS-SIGNALS		WOOD STREET	
REVISIONS		PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-1111 CIRCUITS	APPROVED DATE SH 1022-27 COM'D ON 1022-28
		SCALE: NONE G.S. 604220 DATE DESIGNED JUL 10-28-83 DRAWN JUL 10-28-83 TRACED CHECKED SJM 12-19-83 O K FOR BIRING	
		UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15216	T1373

WOOD STREET RELAY ROOM



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 461

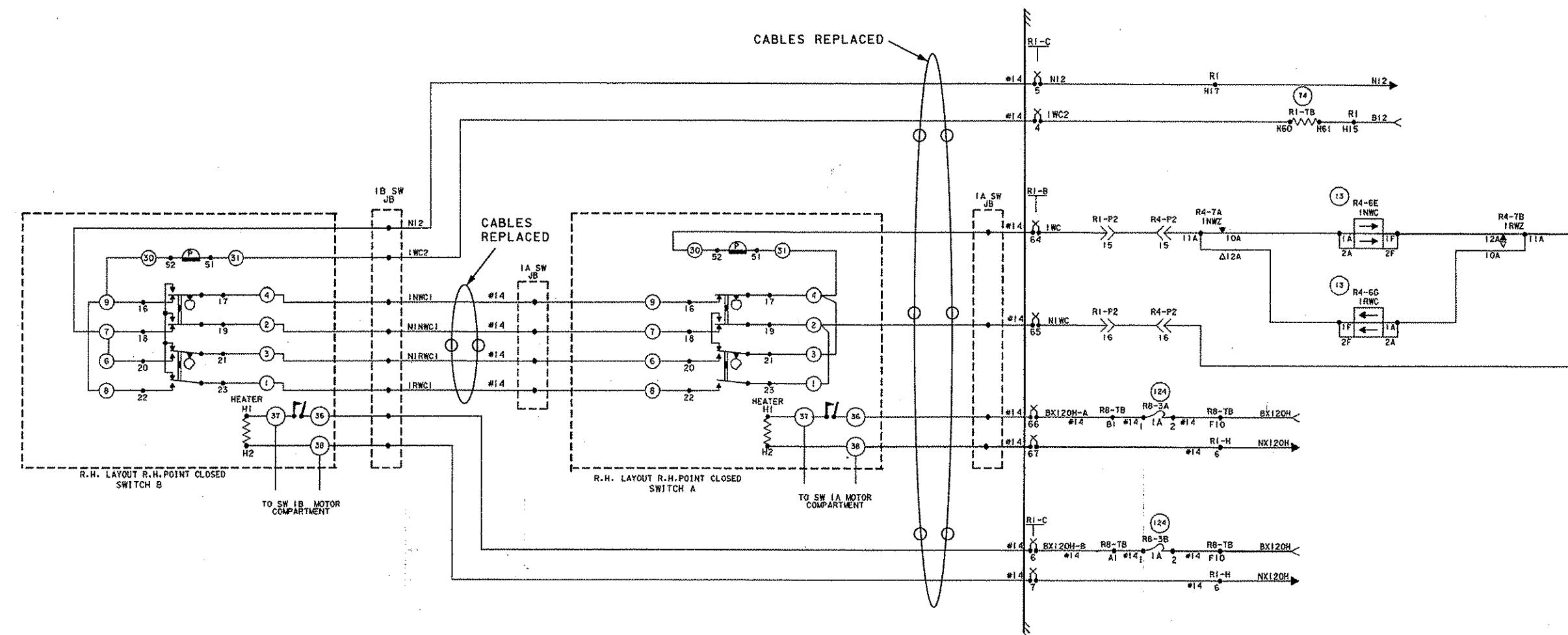
NOTE:
ALL WIRE #20, UNLESS NOTED.

A.C. BLOWN FUSE CIRCUITS-TRACKS		WOOD STREET	
REVISIONS	PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NONE G.O. 804226 DATE DESIGNED JUL 10-31-63 DRAWN JUL 10-31-63 TRACED CHECKED SUM 12-19-63 FOR WIRING

PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-III
CIRCUITS
APPROVED DATE
SH 1022-28 1022-29
UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
MURKSVILLE, PA 15218

T1373

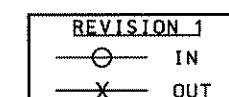
WOOD STREET RELAY ROOM



NOTES:
CASE WIRING THIS SHEET #20, UNLESS NOTED.
FAR END XOVER ADD BUS STRAP 6 TO 7 AND 8 TO 9 TO 30
NEAR END XOVER ADD BUS STRAP 1 TO 2 AND 3 TO 4 TO 31
P = MOTOR CUTOUT WHEN PLACING DUAL SELECTOR
HAND OPERATION.



SIGNATURE

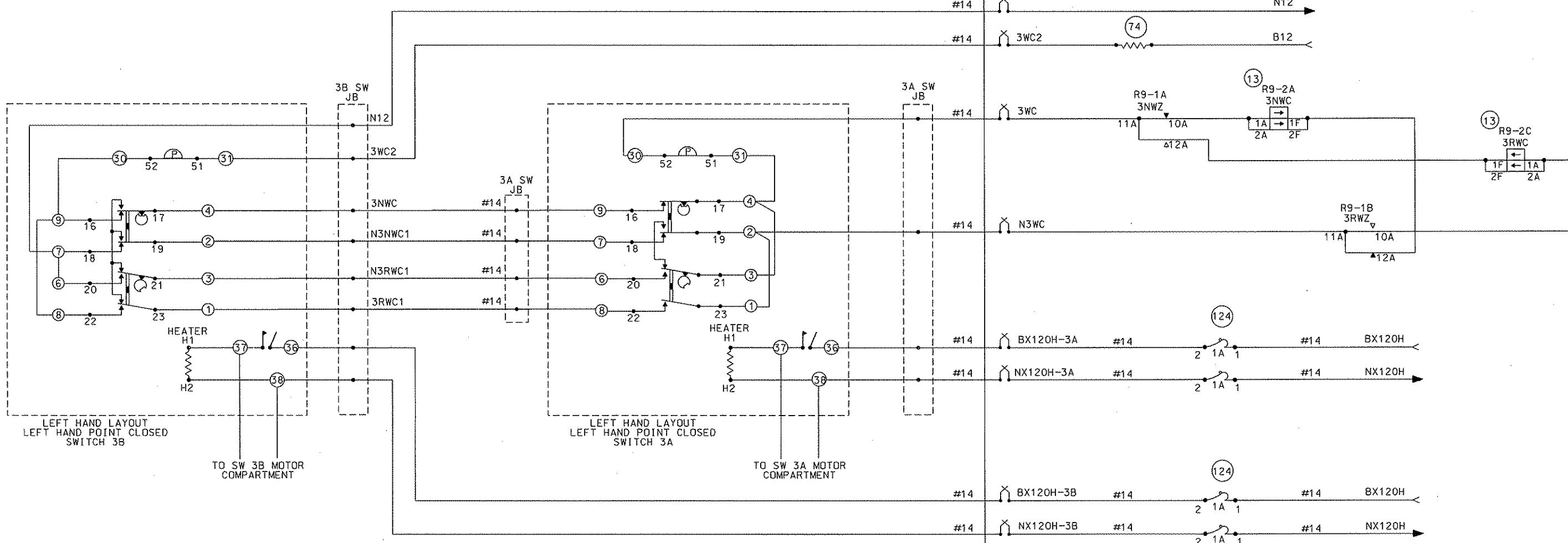


NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 462

CROSSOVER INDICATION CIRCUITS		WOOD STREET	
1 CROSSOVER NWC/RWC			
REVISIONS		REFERENCES	SCALE: NONE
			G.O. 804220 DATE
			DESIGNED W/L 10-18-83
			DRAWN W/L 10-18-83
			TRACED
			CHECKED SJM 12-19-83
			FOR WIRING
			APPROVED DATE
			SH 1022-29 1022-30
			PENN DOT, TLP
			UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMYSSVILLE, PA 15218
			T1373

FIELD

WOOD STREET RELAY ROOM



REVISION 1

ALL NEW WORK
NEW SHEET

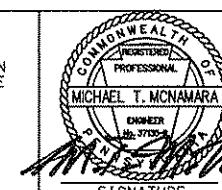
NOTE:

ALL WIRING THIS SHEET #16 UNLESS OTHERWISE NOTED.

Gannett Fleming
Transit & Rail Systems

NO.	DATE	DESCRIPTION	REVISIONS

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



SIGNATURE
David F. Hays 4/28/08

APPROVED

DATE

4/28/08

PROFESSIONAL
ENGINEERING
REGISTRATION
BOARD
MICHAEL T. McNAMARA
CHIEF
4/28/08

SIGNATURE

APPROVED

DATE

4/28/08

PROFESSIONAL
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4/28/08

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4/28/08

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4/28/08

PROFESSIONAL
ENGINEERING
REGISTRATION
BOARD
MICHAEL T. McNAMARA
CHIEF
4/28/08

SIGNATURE

APPROVED

DATE

4/28/08

PROFESSIONAL
ENGINEERING
REGISTRATION
BOARD
MICHAEL T. McNAMARA
CHIEF
4/28/08

SIGNATURE

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PROFESSIONAL
ENGINEERING
REGISTRATION
BOARD
MICHAEL T. McNAMARA
CHIEF
4/28/08

SIGNATURE

APPROVED

DATE

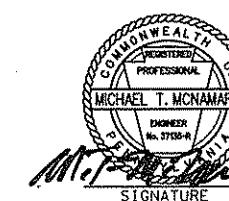
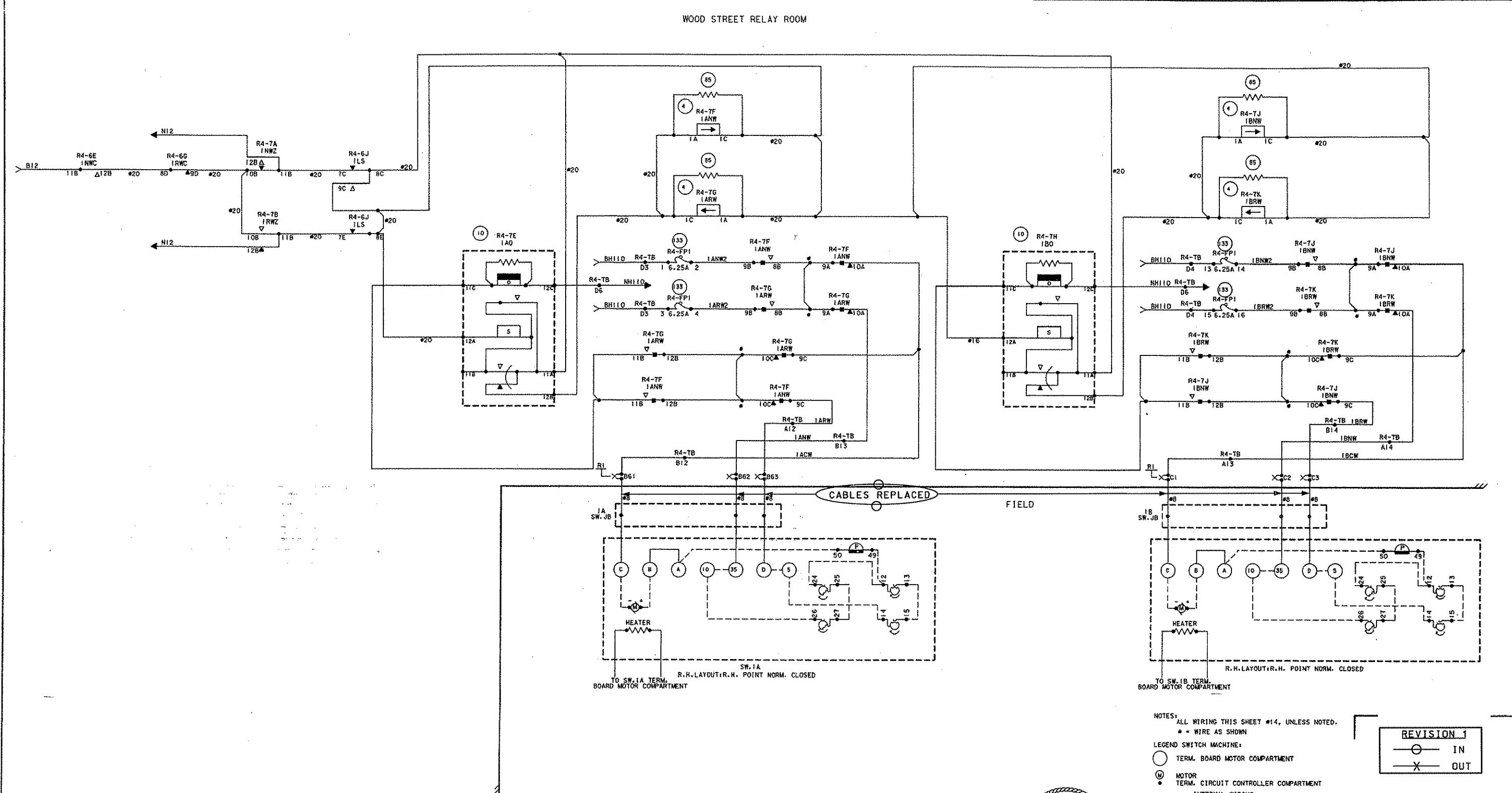
4/28/08

PROFESSIONAL
ENGINEERING
REGISTRATION
BOARD
MICHAEL T. McNAMARA
CHIEF
4/28/08

SIGNATURE

APPROVED

WOOD STREET RELAY ROOM



SIGNATURE

SWITCH OPERATING CIRCUIT

CROSSOVER NW/RW
PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 464

SWITCH OPERATING CIRCUITS ! CROSSOVER NW/RW

WOOD STREET

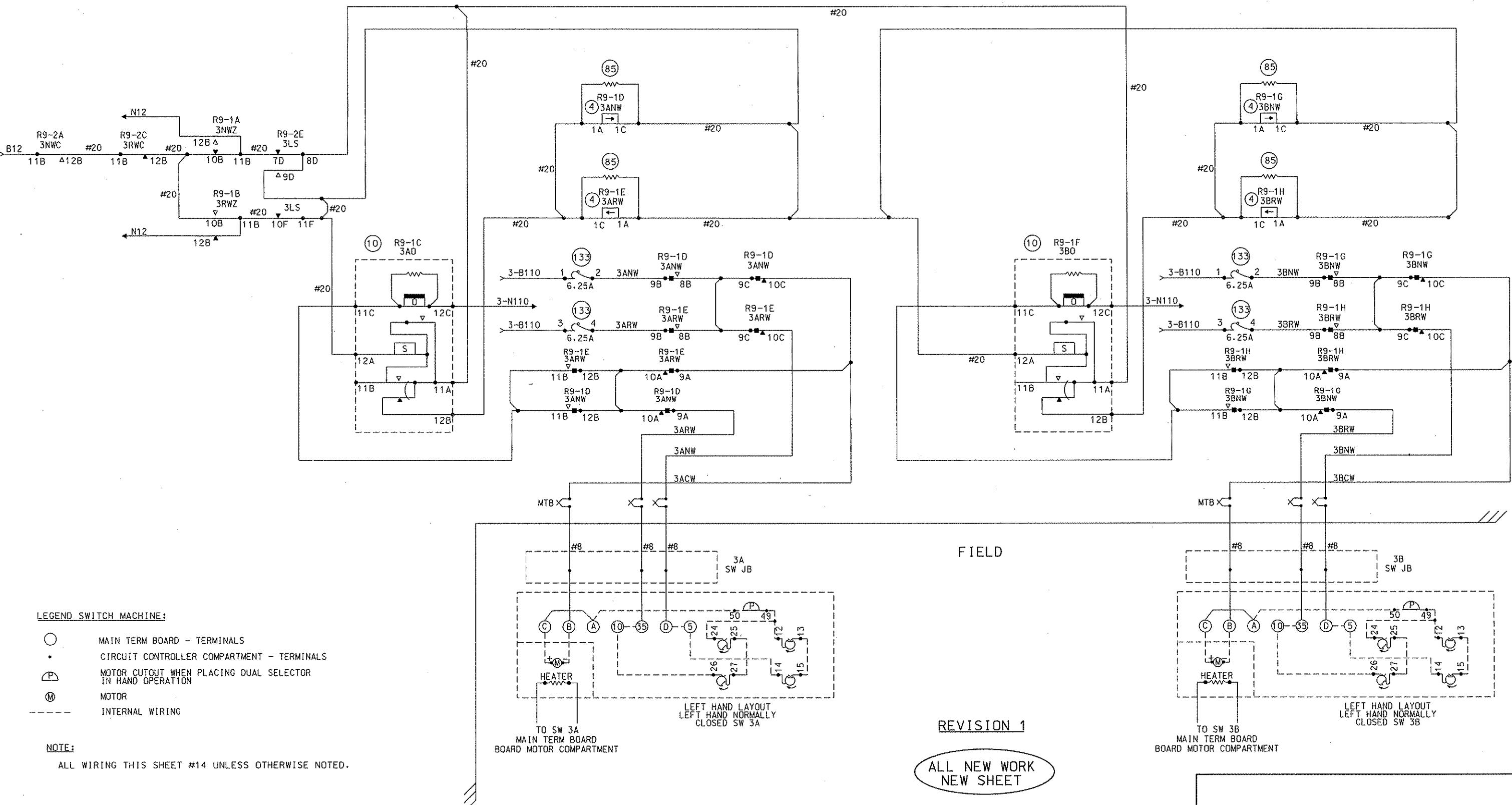
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		APPROVED	DATE
		SH 1022-30	CONT'D ON 1022-31
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218	T1373	

REVISIONS

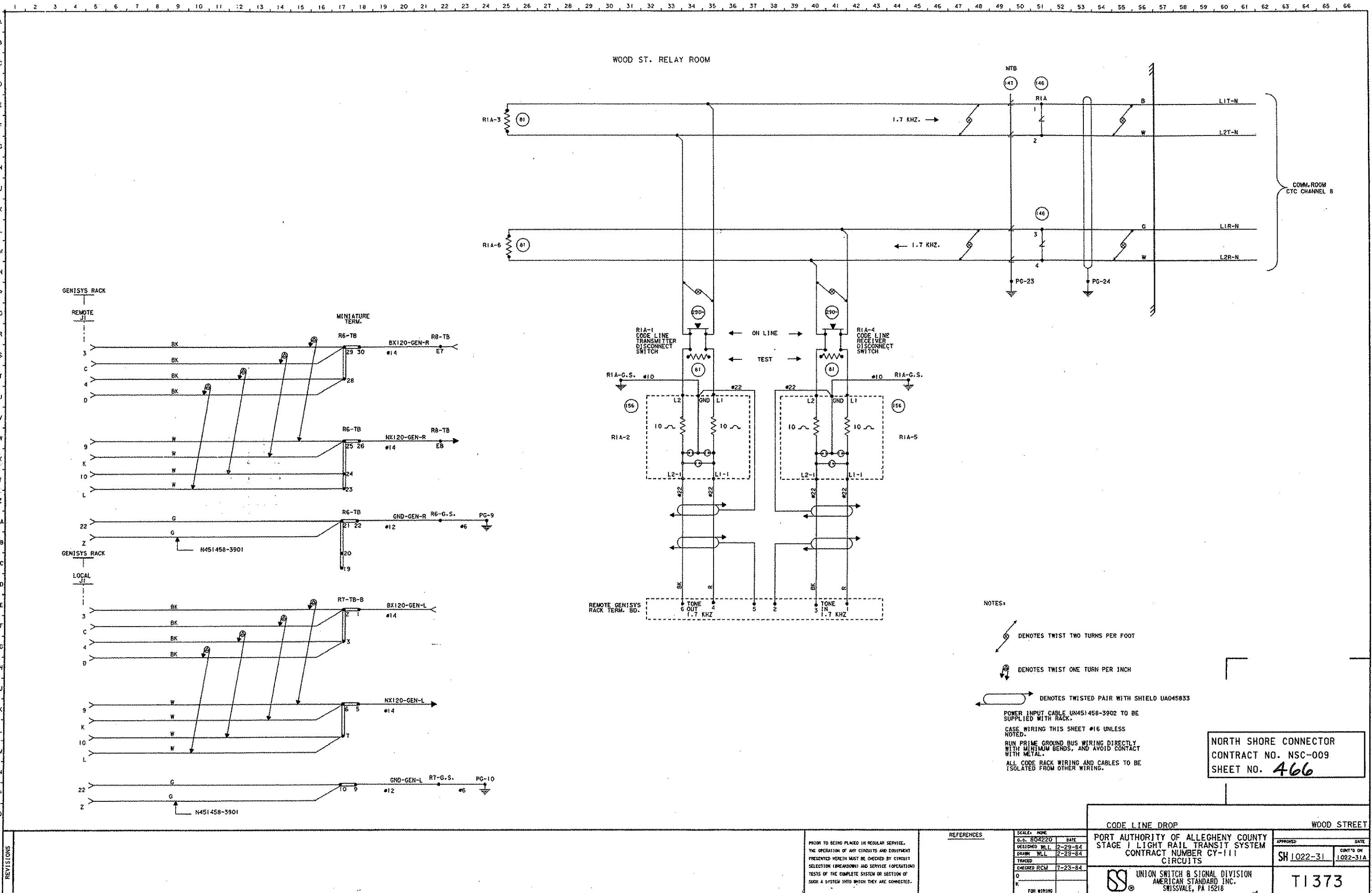
10. The following table summarizes the results of the study.

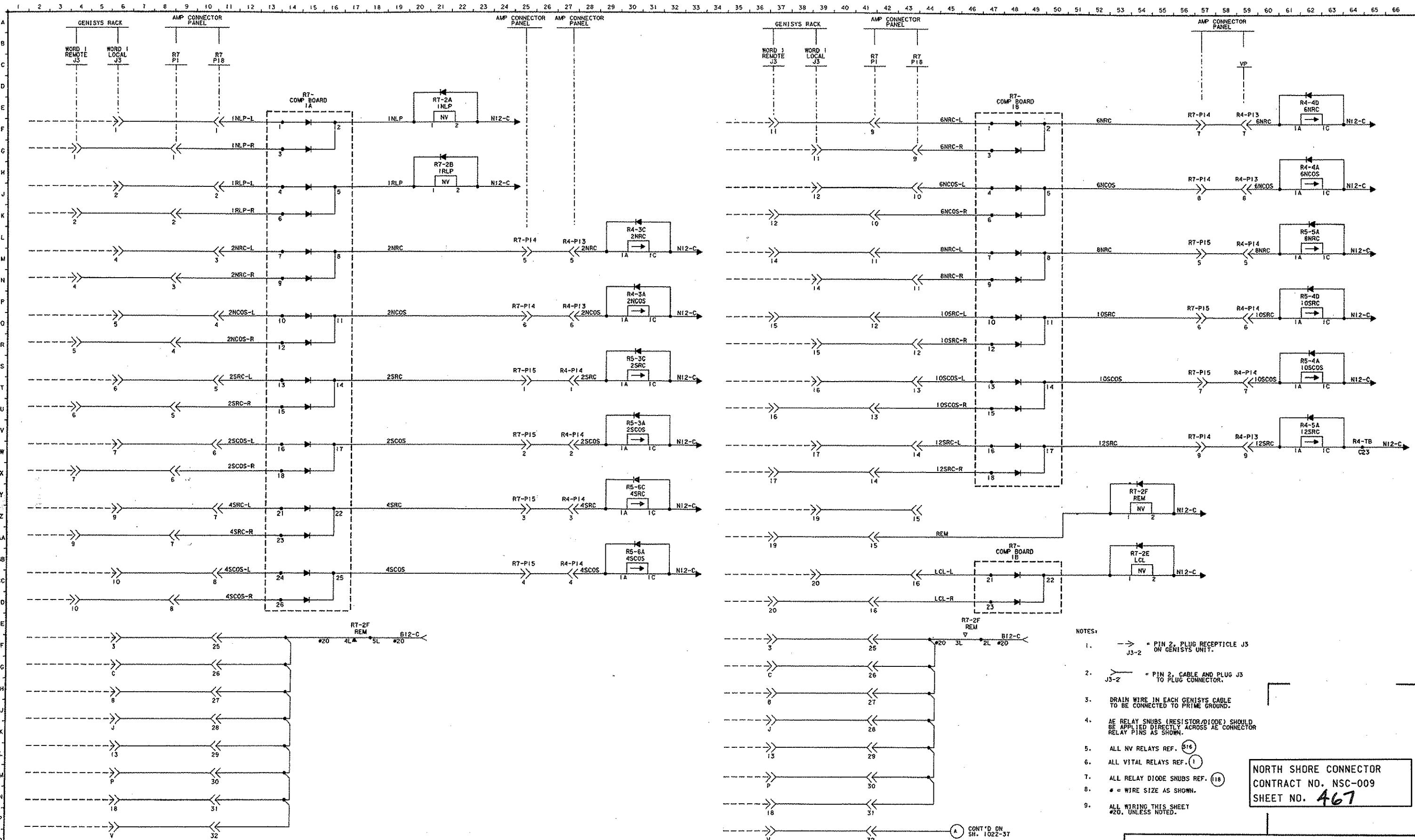
PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY C.
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

WOOD STREET RELAY ROOM



Gannett Fleming Transit & Rail Systems			THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.	DMJM HARRIS AECOM FOUR GATEWAY CENTER 20TH FLOOR PITTSBURGH, PA. 15222 <i>M.T. McNamara</i> SIGNATURE	DESIGNED SM NARANG DRAWN HT TRAN CHECKED JF SAMEAN IN CHARGE CD JONES DATE APR. 28, 2008 APPROVED <i>David J. Denay 4/28/08</i> DATE	PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH NORTH SHORE CONNECTOR WOOD STREET INTERLOCKING TURNBACK 3 SWITCH MACHINE OPERATING CIRCUITS
	NO. DATE	DESCRIPTION				
		REVISIONS				Port Authority



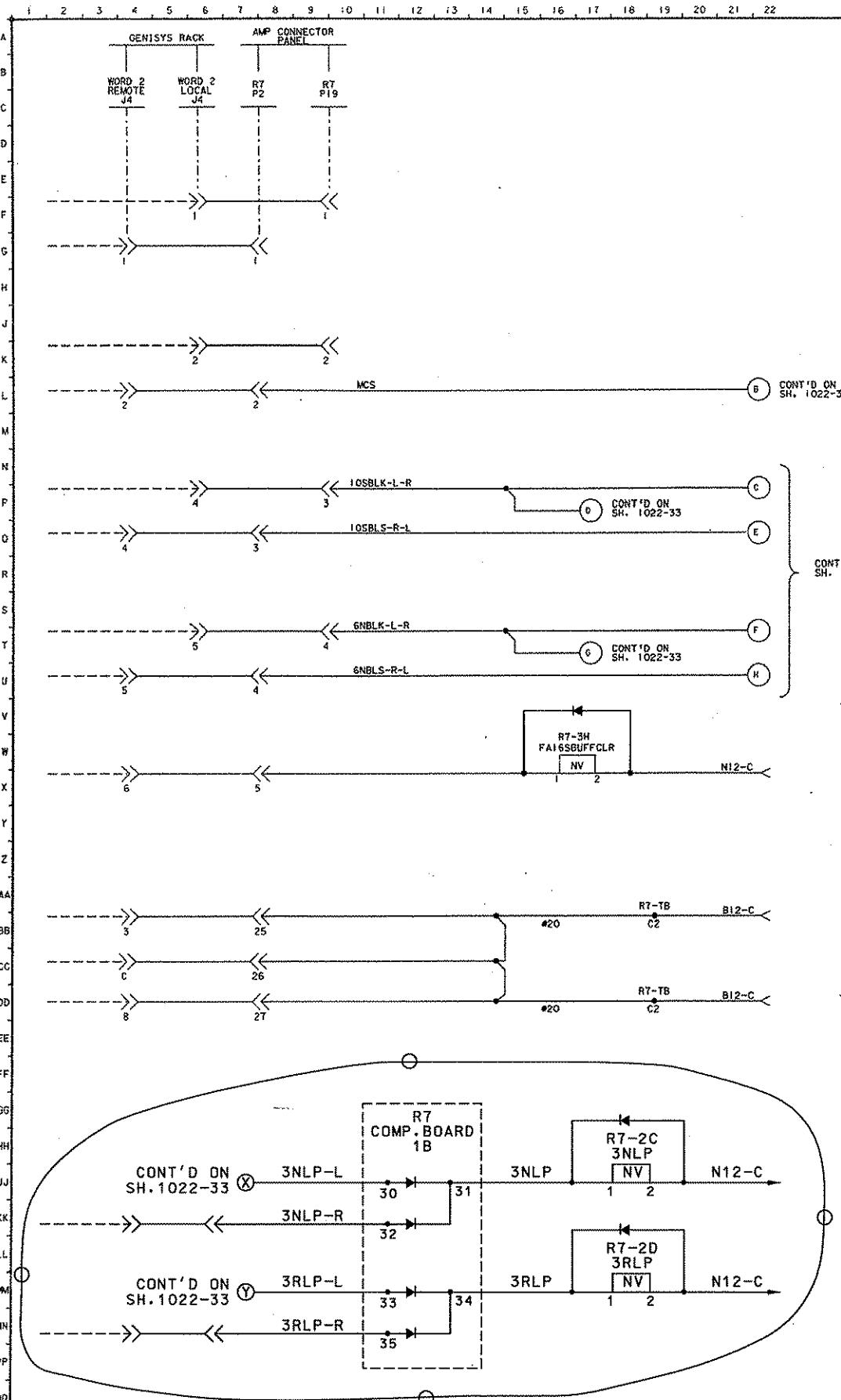


NOTES:

1. → = PIN 2, PLUG RECEPTACLE J3 ON GENISYS UNIT.
2. → = PIN 2, CABLE AND PLUG J3 TO PLUG CONNECTOR.
3. DRAIN WIRE IN EACH GENISYS CABLE TO BE CONNECTED TO PRIME GROUND.
4. AC RELAY SNUBS (RESISTOR/DIODE) SHOULD BE APPLIED DIRECTLY ACROSS AC CONNECTOR RELAY PINS AS SHOWN.
5. ALL NV RELAYS REF. 516
6. ALL VITAL RELAYS REF. 1
7. ALL RELAY DIODE SNUBS REF. 118
8. # = WIRE SIZE AS SHOWN.
9. ALL WIRING THIS SHEET #20, UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 467

GENISYS OUTPUT LOCAL AND REMOTE-CONTROL WORD 1		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED DATE SH 1022-31A 1022-32
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: 1/4 IN. S.G. 804220 DATE DESIGNED JUL 11-3-83 DRAWN JUL 11-3-83 TRACED CHECKED SJM 12-22-83 O FOR WIRING K
REV. 10001100000034.PAT		UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218
		T1373



REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

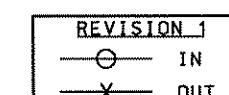
SCALE DRAWN
G.G. 804220 DATE
DESIGNED W/L 11-3-83
DRAWN W/L 11-3-83
TRACED
CHECKED SUM 12-22-83
O K FOR BIRING

GENISYS OUTPUT
LOCAL AND REMOTE-CONTROL WORD 2
WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRAIN SYSTEM
CONTRACT NUMBER CY-III
CIRCUITS
APPROVED DATE
SH 1022-32 CONT'D ON
1022-33

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
MUNISING, MI 49860

T1373

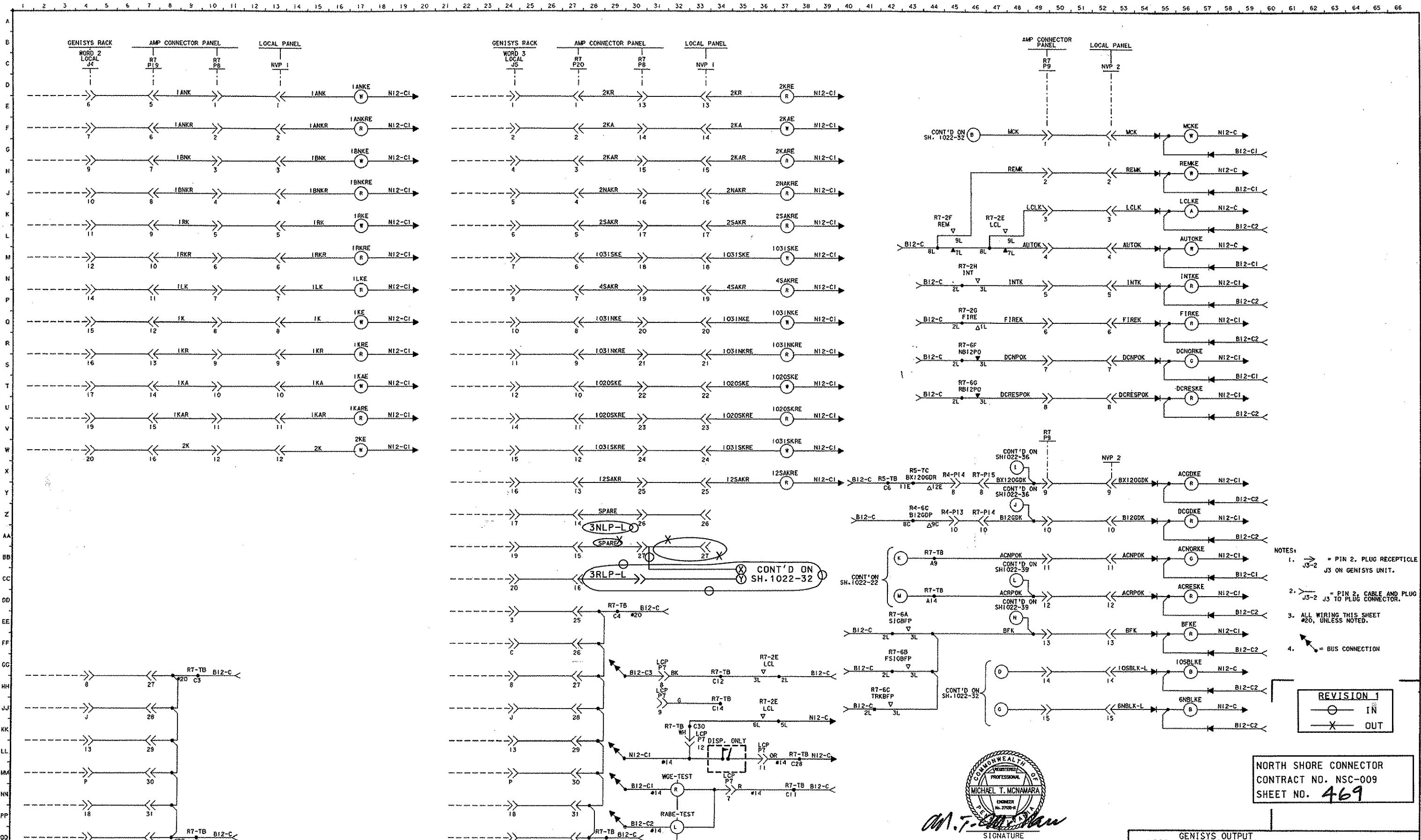
- NOTES:
- * PIN 2, PLUG RECEPTACLE J3 ON GENISYS UNIT.
 - * PIN 2, CABLE AND PLUG J3 TO PLUG CONNECTOR.
 - DRAIN WIRE IN EACH GENISYS CABLE
TO BE CONNECTED TO PRIME GROUND.
 - AE RELAY SNUBS (RESISTOR/DIODE) SHOULD
BE APPLIED DIRECTLY ACROSS AE CONNECTOR
RELAY PINS AS SHOWN.
 - ALL NV RELAYS REF. 616
 - ALL RELAY RESISTOR SNUBS REF. 64
 - ALL RELAY DIODE SNUBS REF. 16
 - * = WIRE SIZE AS SHOWN.
 - ALL WIRING THIS SHEET
#20, UNLESS NOTED.



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 468



SIGNATURE



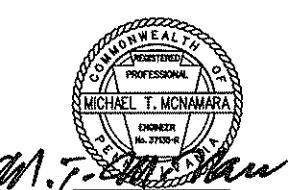
NOTES:

1. → = PIN 2, PLUG RECEPTACLE
J3-2 = J3 ON GENYS UNIT.
2. → = PIN 2, CABLE AND PLUG
J3-2 = J3 TO PLUG CONNECTOR.
3. ALL WIRING THIS SHEET
#20, UNLESS NOTED.
4. ↗ = BUS CONNECTION

REVISION 1

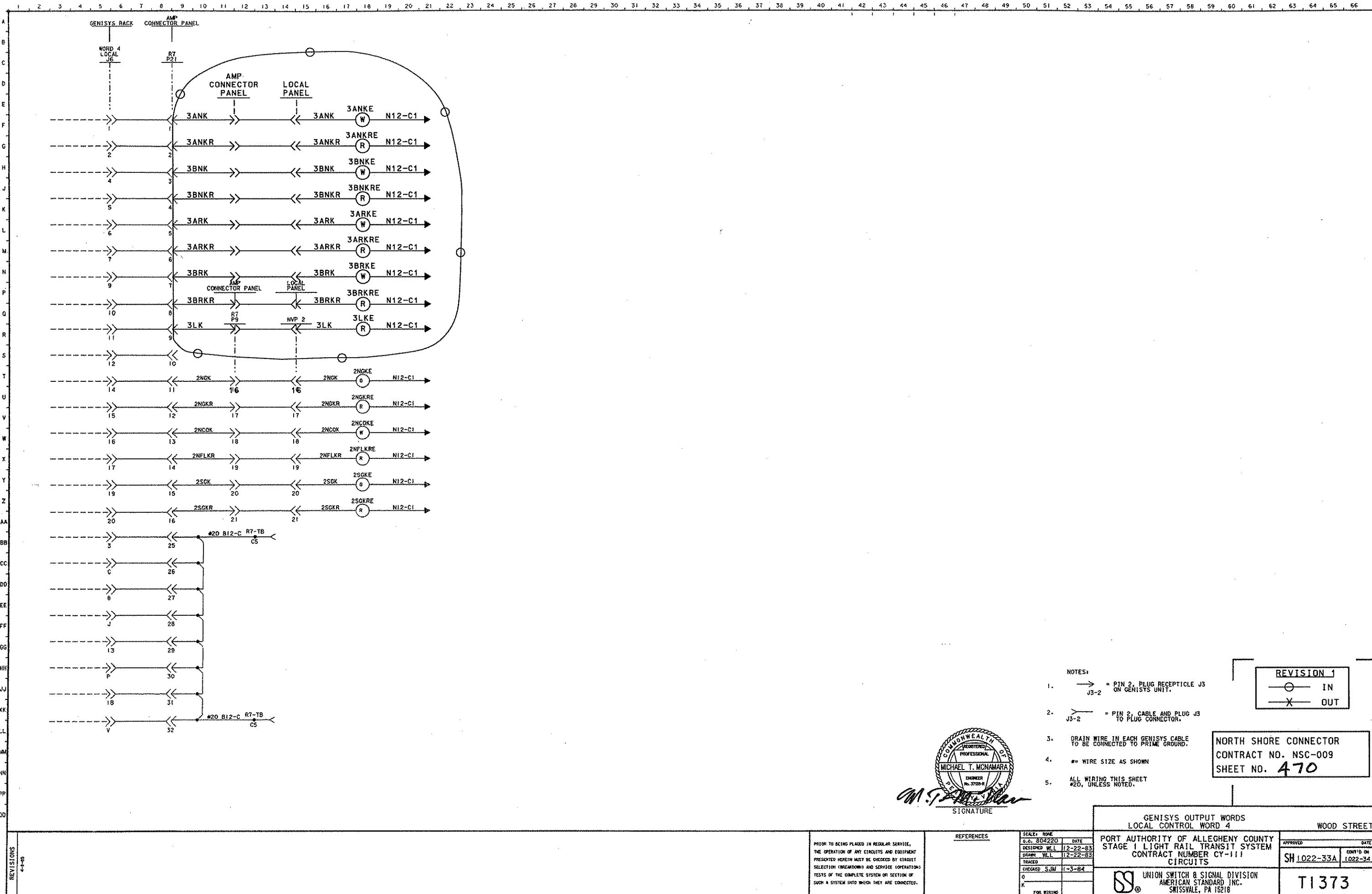
—○—	IN
—X—	OUT

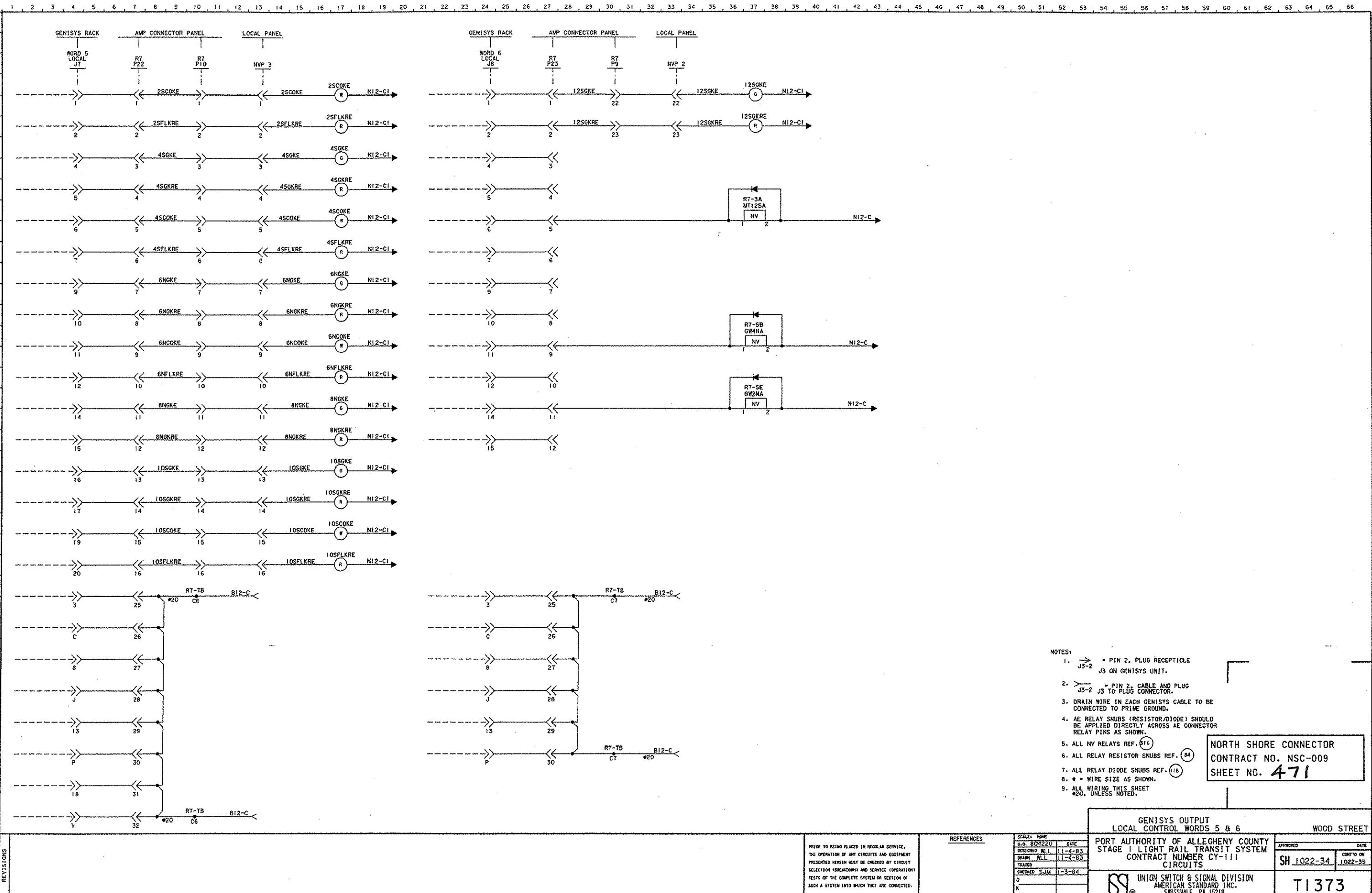
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 469

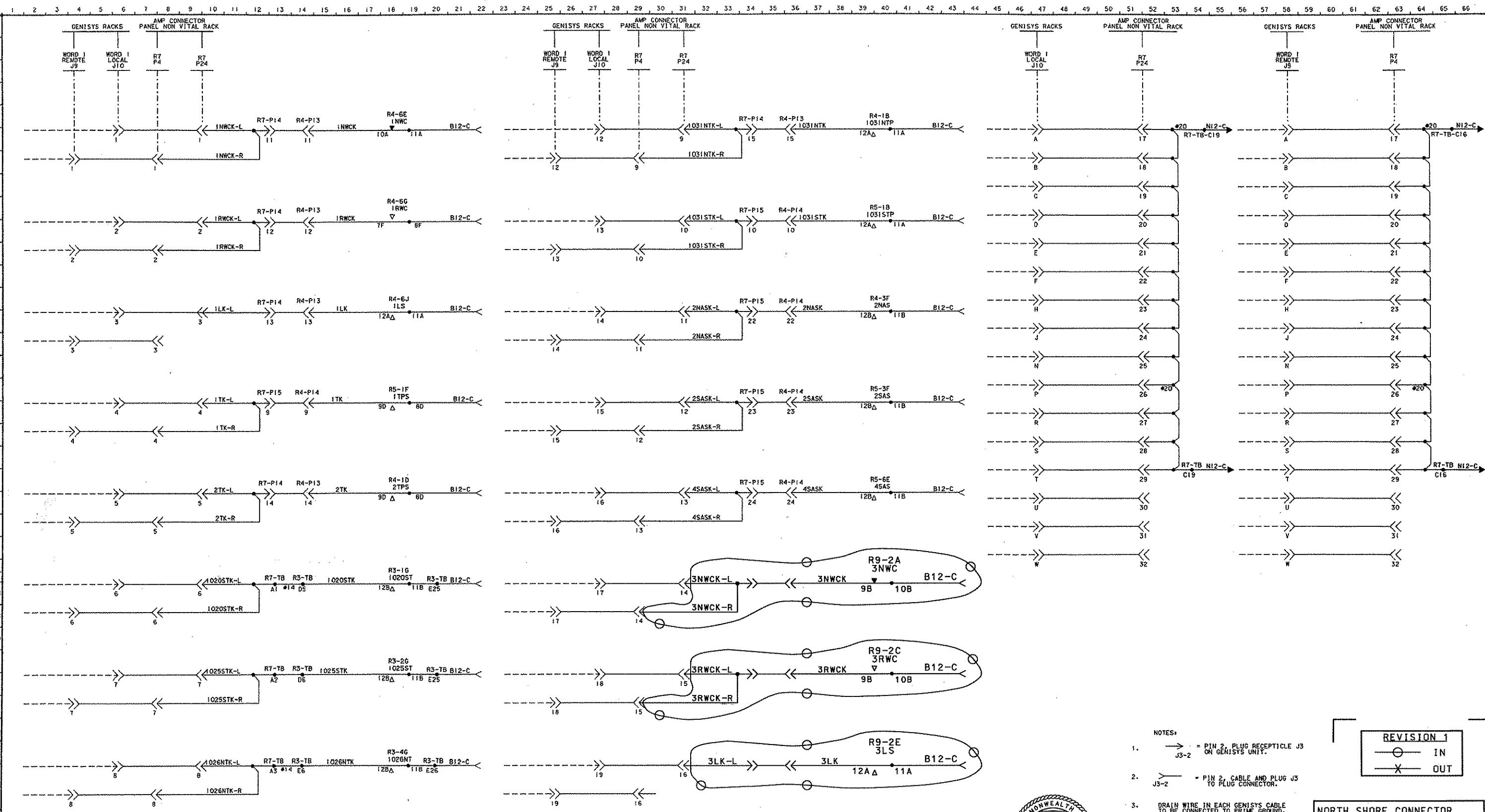


SIGNATURE

GENTYS OUTPUT LOCAL CONTROL WORDS 2 & 3 LOCAL PANEL LIGHTING		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		
APPROVED DATE SH 1022-33	CONT'D ON 1022-33A	DATE 1022-33A
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218		T 1373



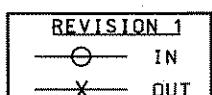




卷之三

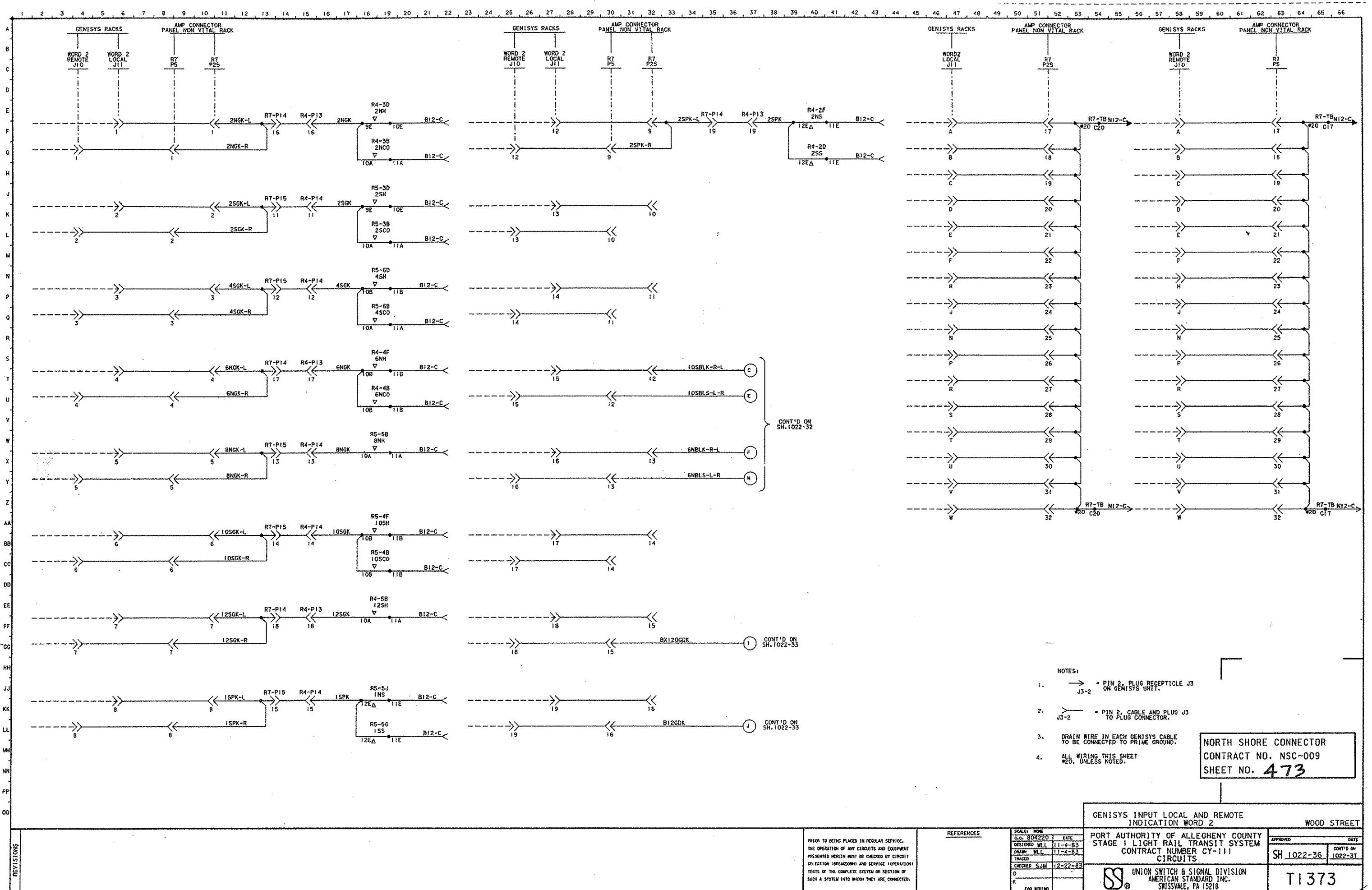
- NOTES:**

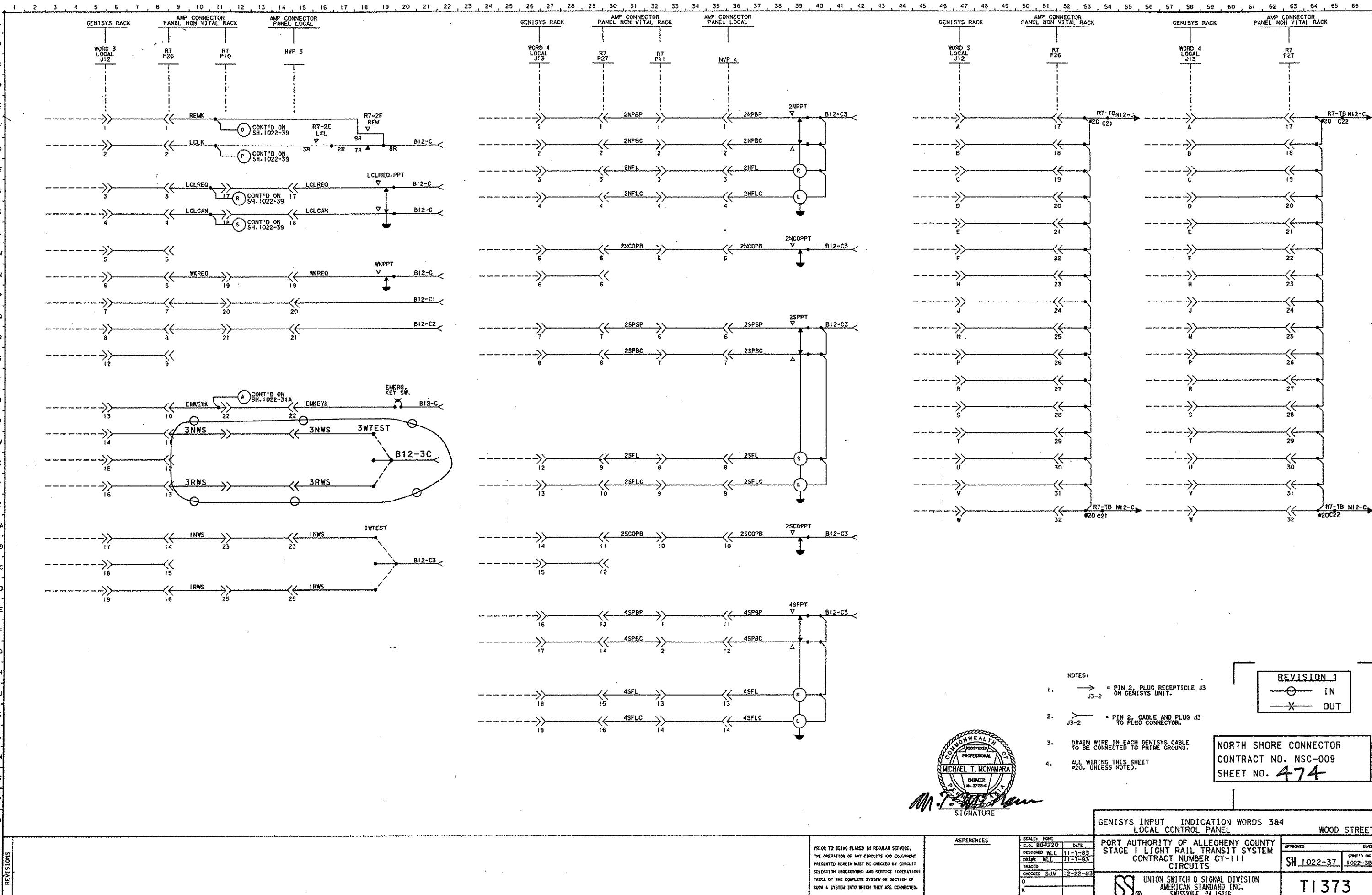
 1. → = PIN 2, PLUG RECEPTACLE J3
J3-2 ON GENISYS UNIT.
 2. → = PIN 2, CABLE AND PLUG J3
J3-2 TO PLUG CONNECTOR.
 3. DRAIN WIRE IN EACH GENISYS CABLE
TO BE CONNECTED TO PRIME GROUND.
 4. ALL WIRING THIS SHEET
#20 UNLESS NOTED.

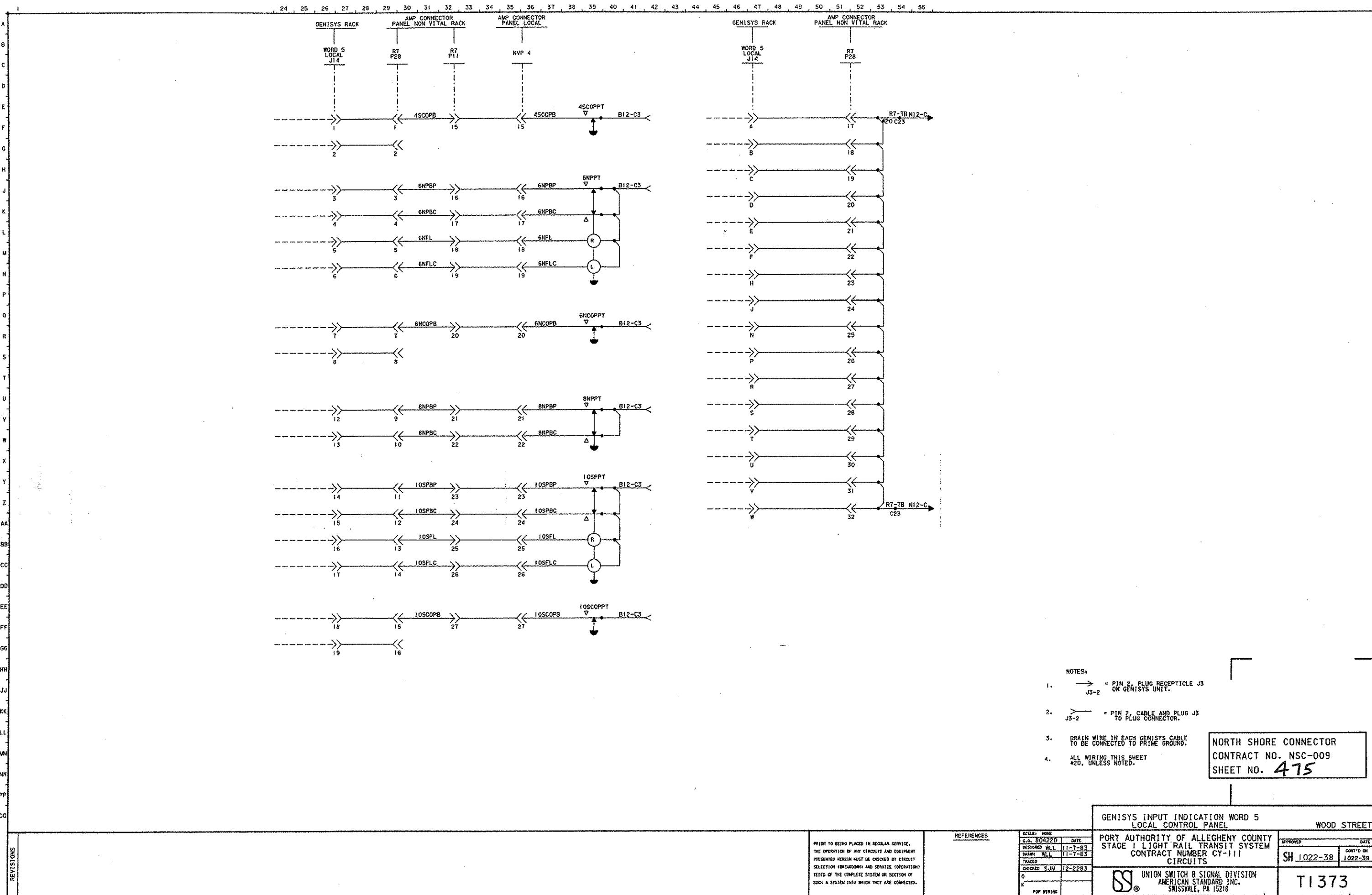


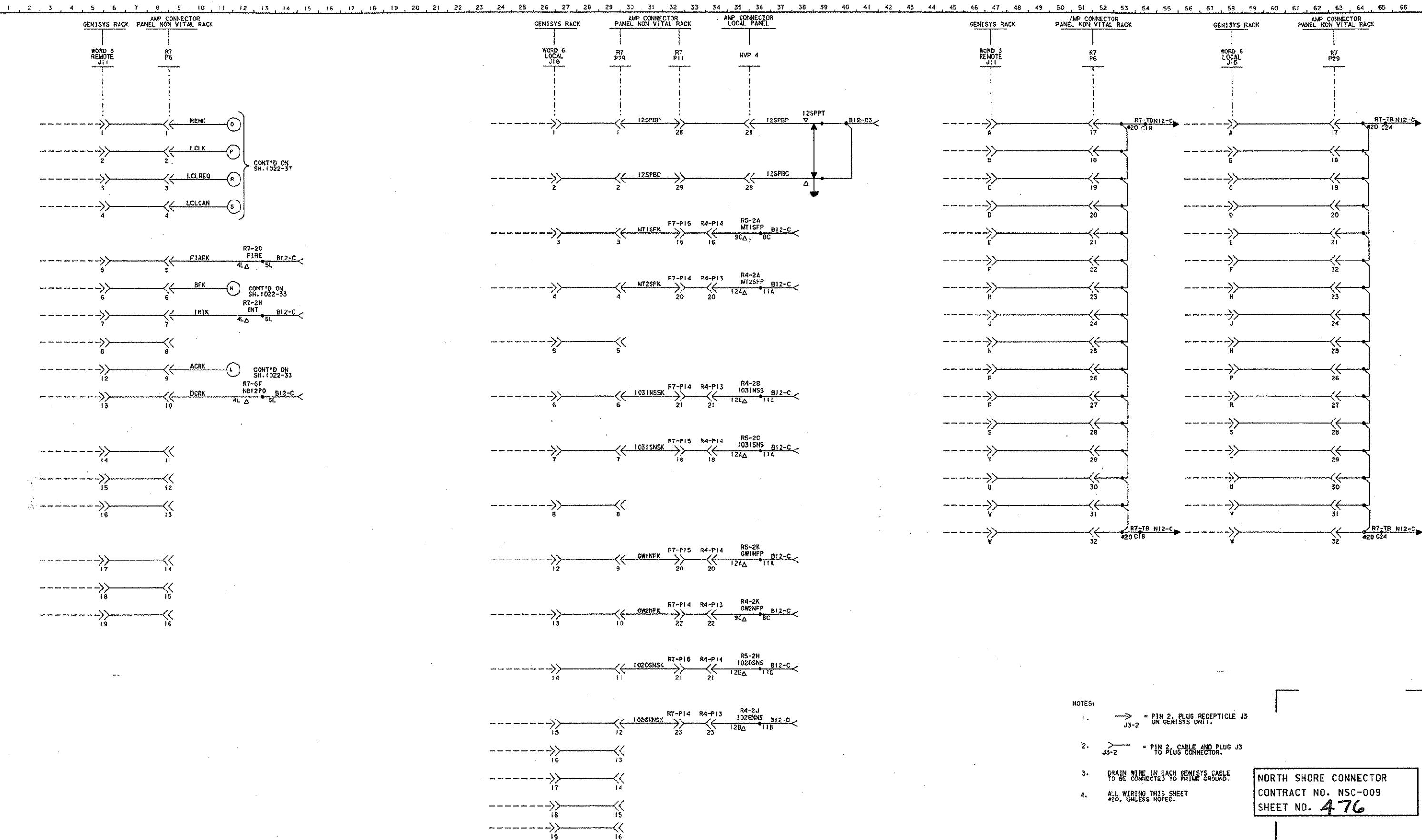
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 472

GENISYS INPUT LOCAL AND REMOTE INDICATION WORD		WOOD STREET				
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS		<table border="1"> <tr> <td>APPROVED</td> <td>DATE</td> </tr> <tr> <td>SH 1022-35</td> <td>COM'D ON 1022-36</td> </tr> </table>	APPROVED	DATE	SH 1022-35	COM'D ON 1022-36
APPROVED	DATE					
SH 1022-35	COM'D ON 1022-36					
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T1373				







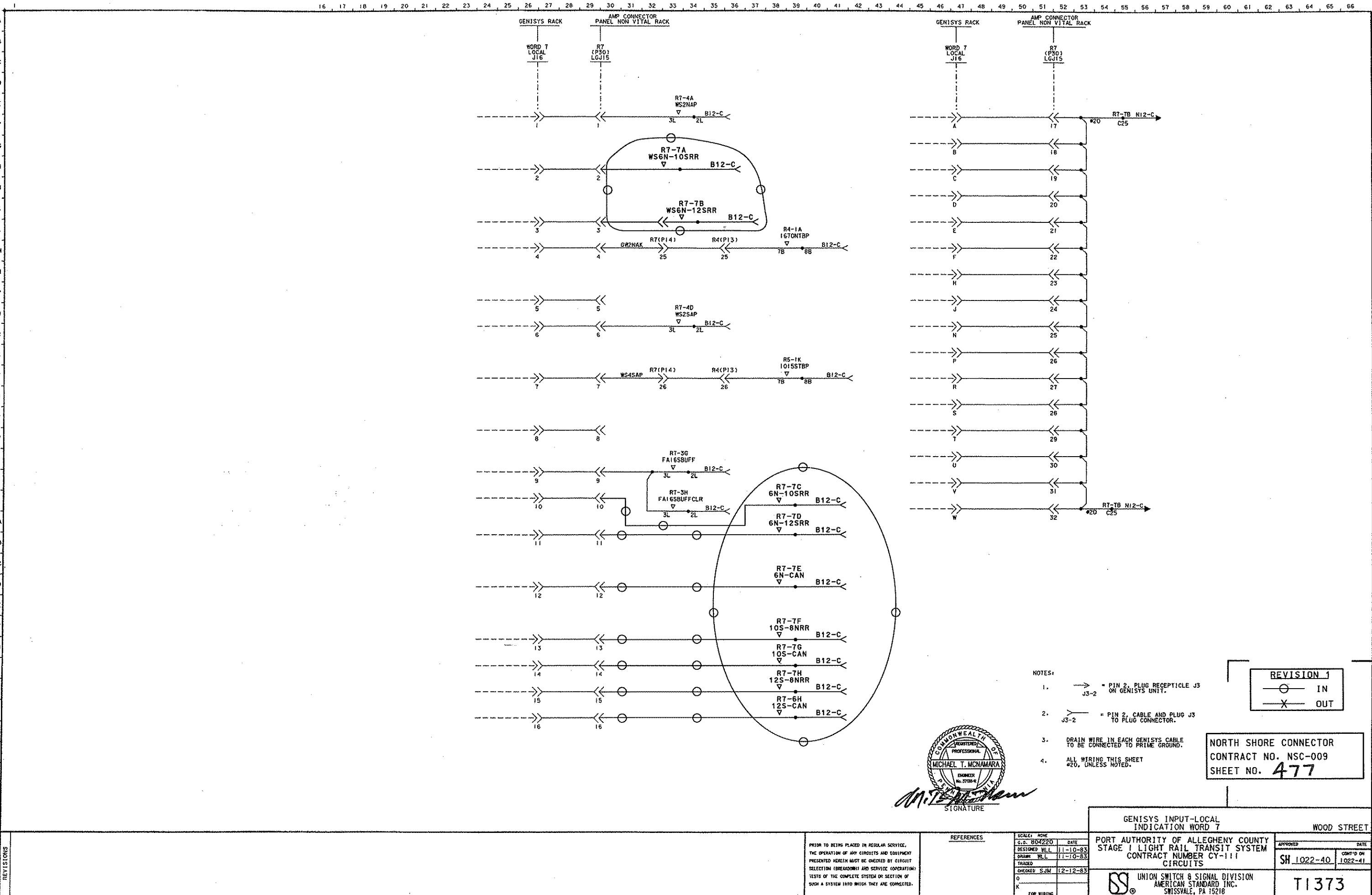


NOTES:

1. → = PIN 2, PLUG RECEPTACLE J3
J3-2 ON GENISYS UNIT.
2. > = PIN 2, CABLE AND PLUG J3
J3-2 TO PLUG CONNECTOR.
3. DRAIN WIRE IN EACH GENISYS CABLE
TO BE CONNECTED TO PRIME GROUND.
4. ALL WIRING THIS SHEET
#20, UNLESS NOTED.

ORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
HEET NO. 476

GENISYS INPUT WORDS 3&6 LOCAL CONTROL PANEL		WOOD STREET
AUTHORITY OF ALLEGHENY COUNTY THE LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-1111 CIRCUITS		APPROVED _____ SH 1022-39
		DATE CONT'D ON 1022-40
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218	T1373	





EVISION 1
IN
OUT

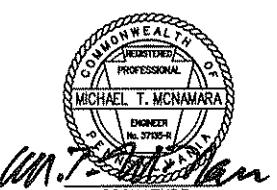
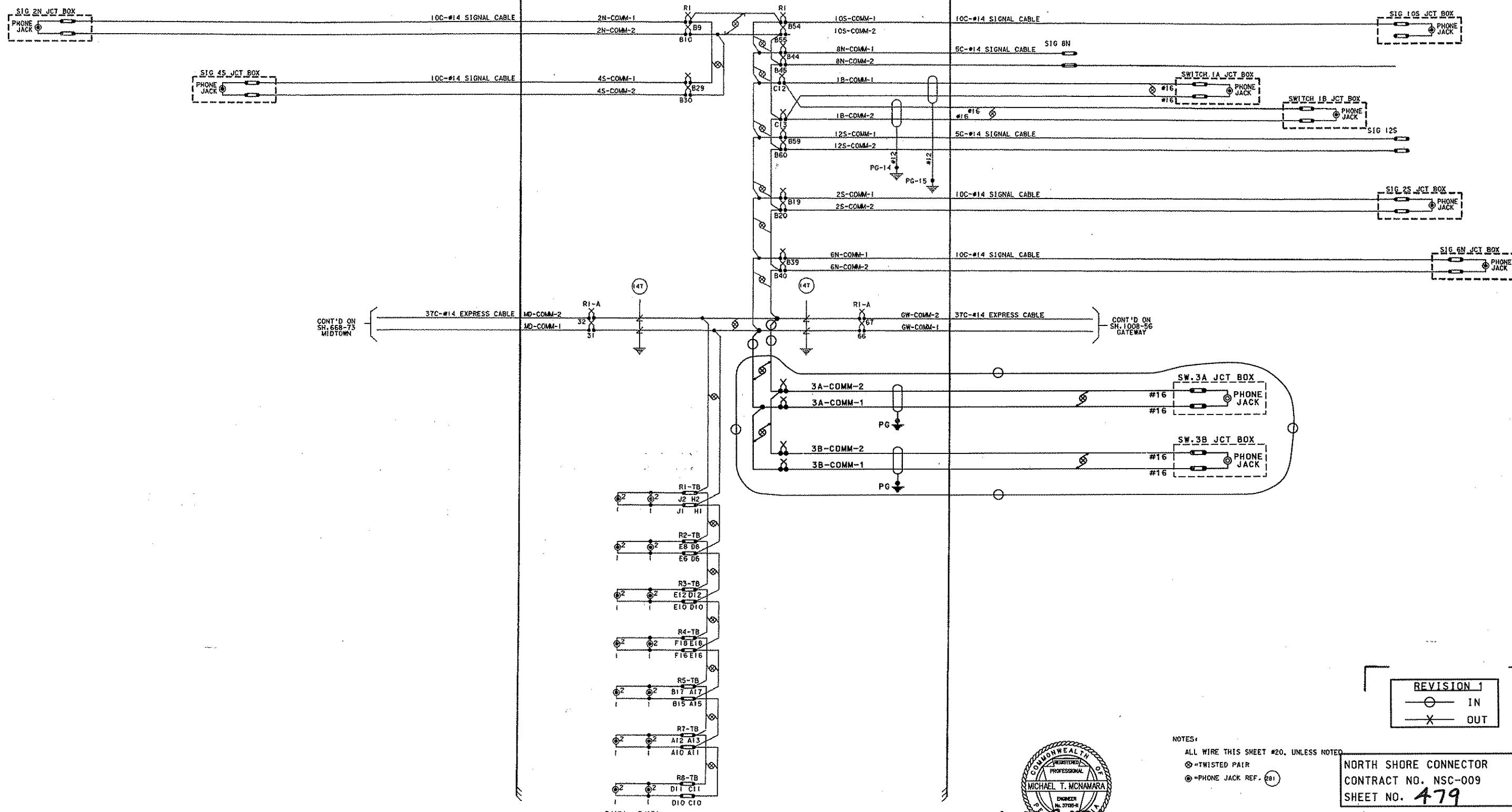
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 478

CODE & FUNCTION ASSIGNMENT **WOOD STREET**

PART AUTHORITY OF ALLEGHENY COUNTY
STAGE 1 LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111
CIRCUITS

T1373

WOOD STREET RELAY ROOM

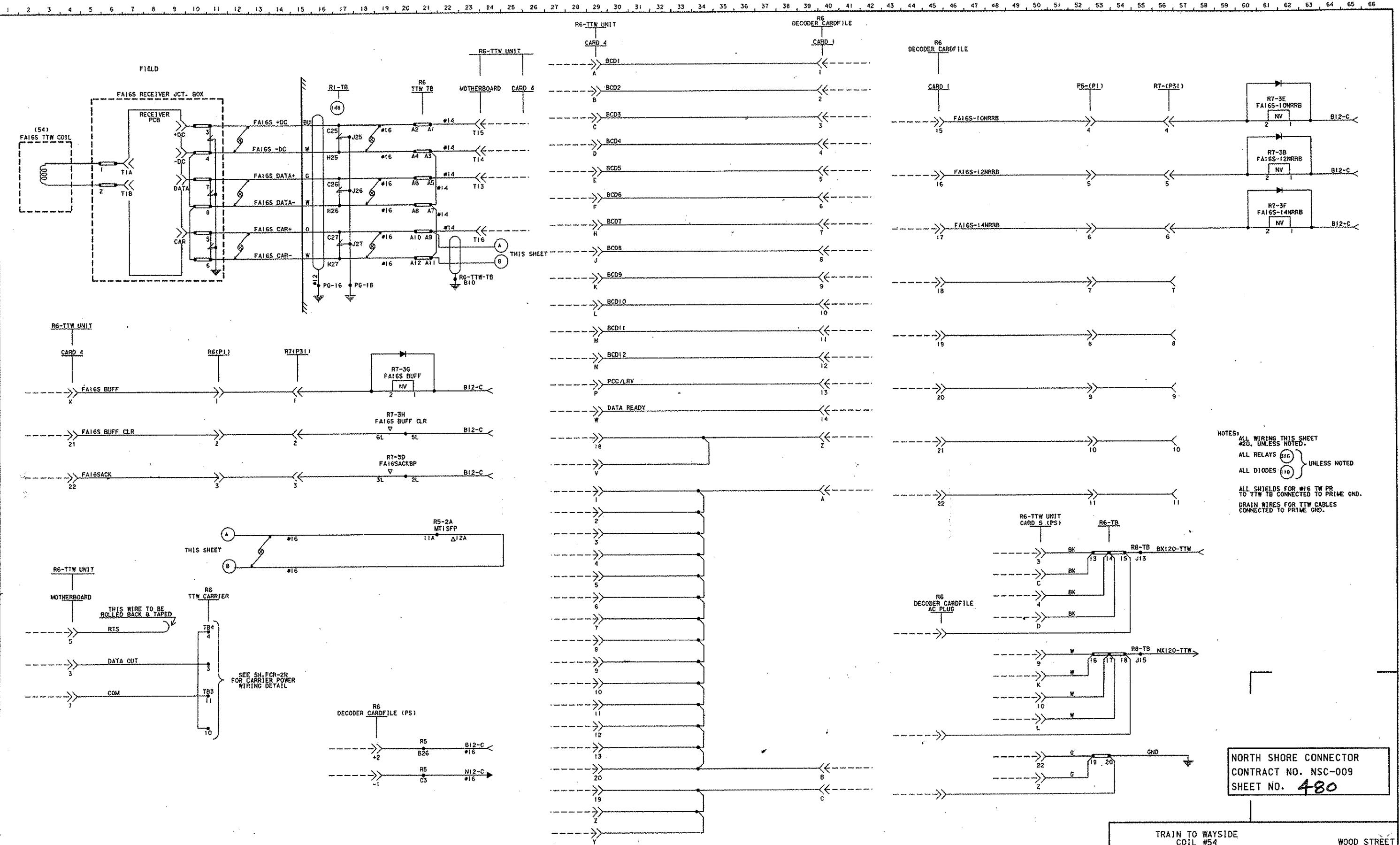


SIGNATURE

REVISION 1
— IN
— X OUT

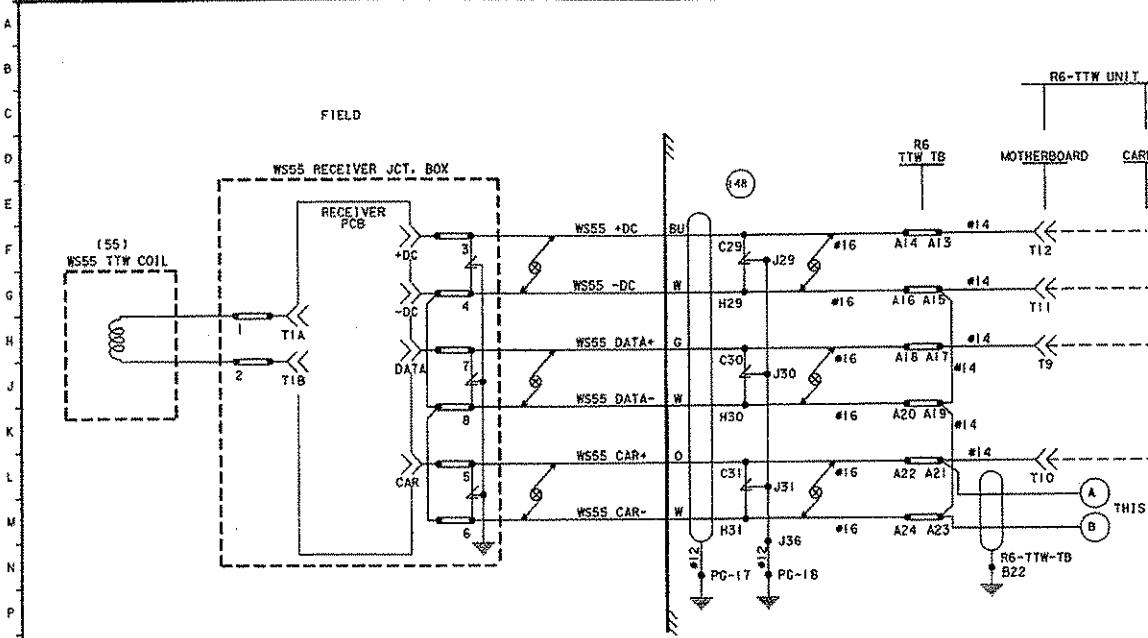
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 479

MAINTENANCE TELEPHONE		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		APPROVED	DATE
		SH 1022-42	CONT'D ON 1022-43
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMISSEY, PA 15210			T1373



REVISIONS		<p>PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.</p>	REFERENCES	SCALE: NAME
				G.G. 8042D
	DESIGNED WCJ	4-13-84		
	DRAWN WCJ	4-13-84		
	TRUCKED			
	CHECKED ENH	5-7-84		
	O			
	K			
	FOR WIRING			
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS				APPROVED
				SH 1022-43
				CONT'D ON 1022-44
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218				T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66



NOTES:
ALL WIRING THIS SHEET
#20, UNLESS NOTED
ALL SHIELDS FOR #16 TO PR
TO TTW TB CONNECTED TO
PRIME GND.
DRAIN WIRE FOR TTW CABLES
CONNECTED TO PRIME GND.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 48

TRAIN TO WAYSIDE COIL #55		WOOD STREET	
REVISIONS	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III CIRCUITS		
	APPROVED	DATE	CONTR. ON
	SH 1022-44	1022-45	
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218		T1373

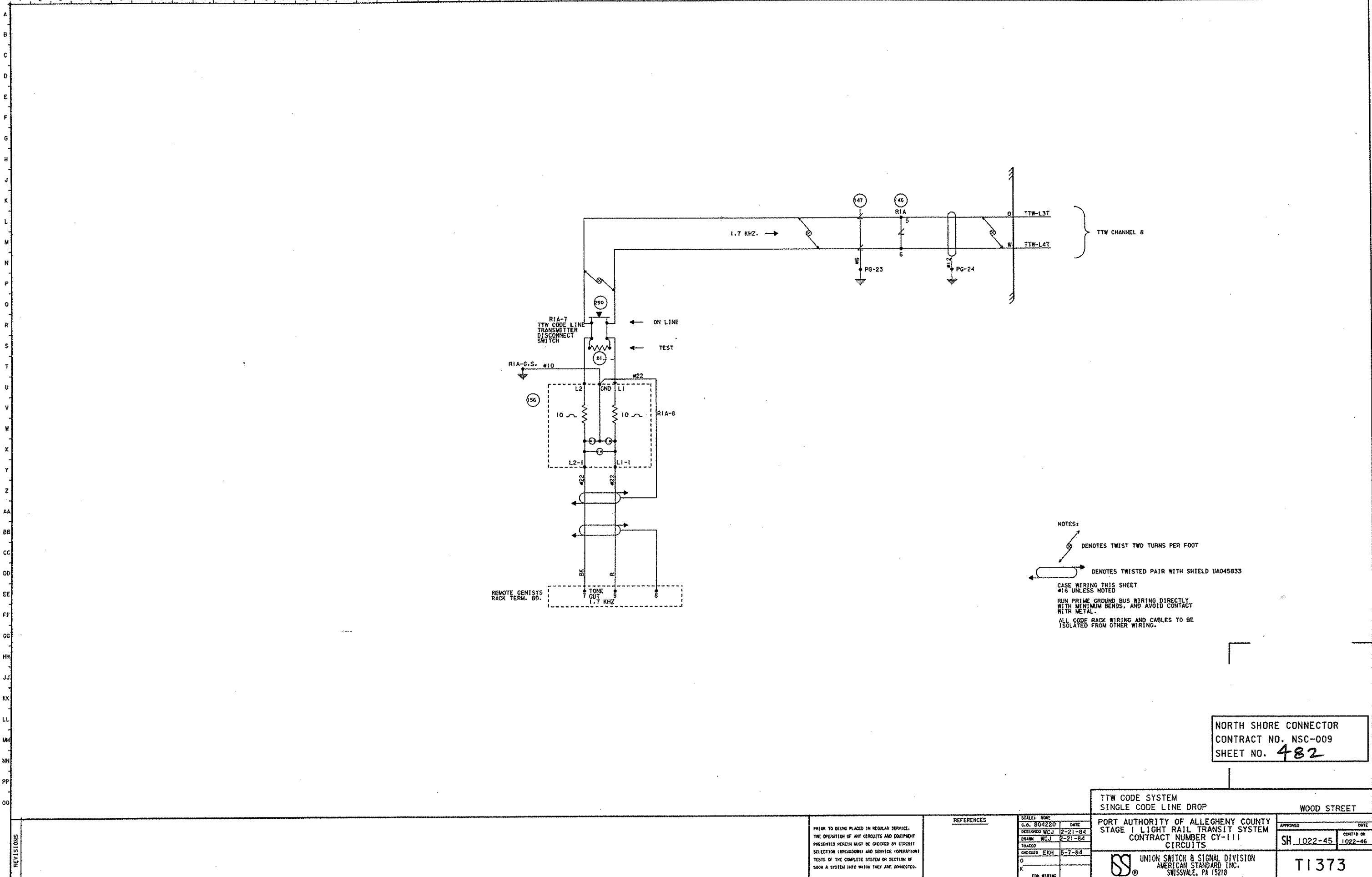
PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE OPERATIONS
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

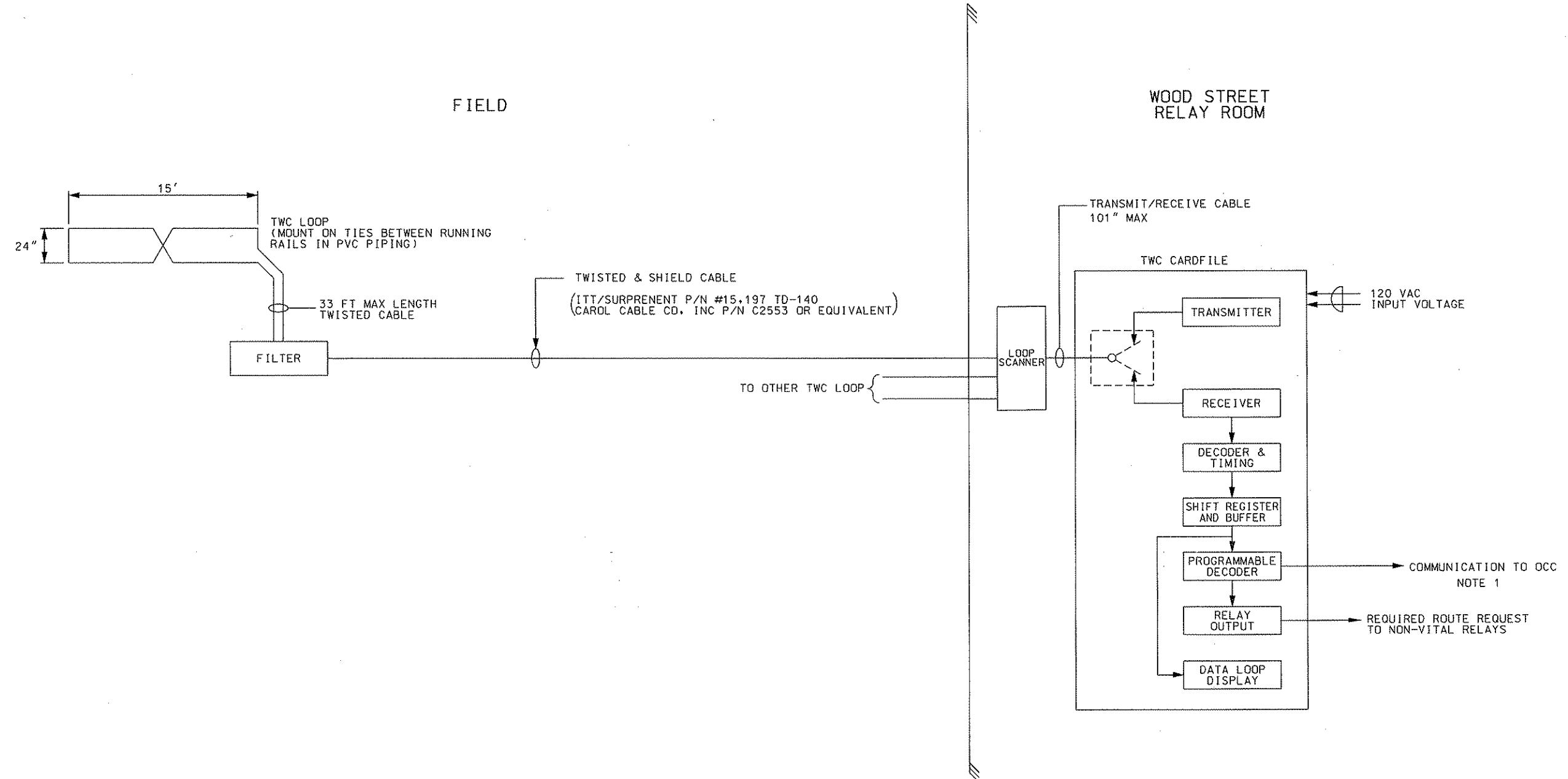
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SCALED DRAWINGS
G.O. 804220 DATE
DESIGNED WCJ 3-18-84
DRAWN WCJ 3-18-84
TRACED
CHECKED EXH 5-7-84
D
K
FOR WIRING

APPROVED	DATE
SH 1022-44	1022-45

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66





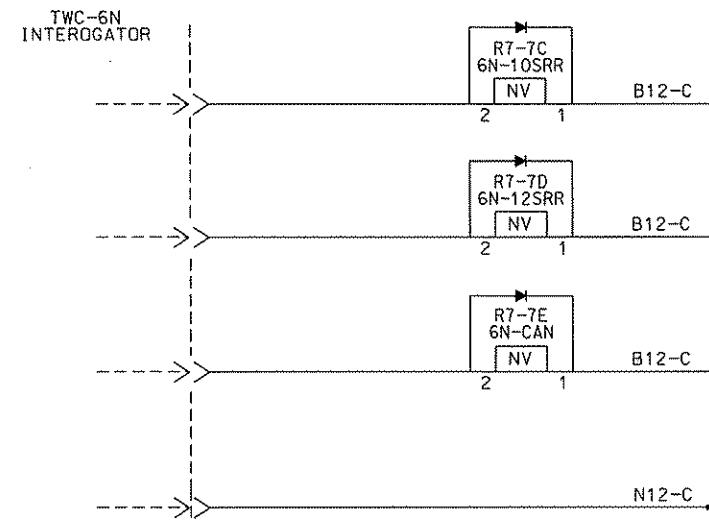
REVISION 1

ALL NEW WORK
NEW SHEET

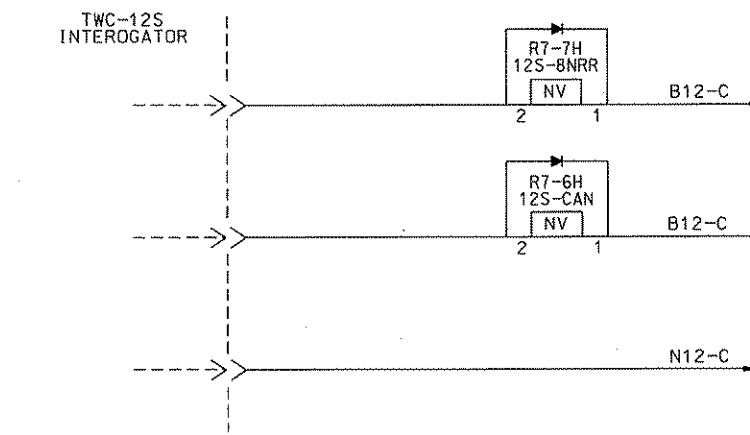
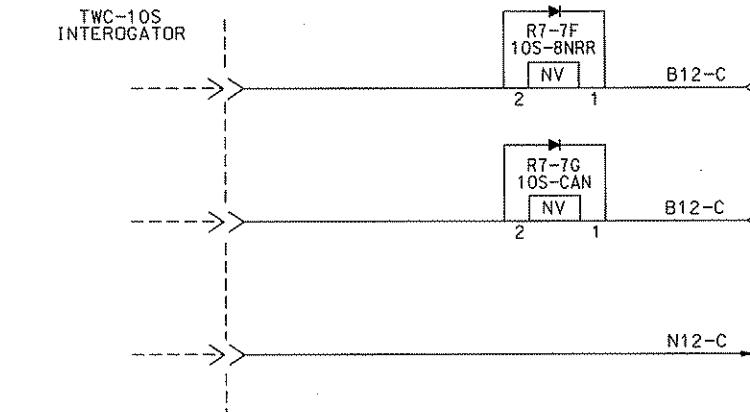
Gannett Fleming Transit & Rail Systems			<p>THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.</p>	<p>MICHAEL T. McNAMARA PENNSYLVANIA PROFESSIONAL ENGINEER REGISTRATION NO. 16-2784-A EXPIRED APRIL 2009 SIGNATURE</p>	<p>DMJM HARRIS AECOM</p> <p>FOUR GATEWAY CENTER 20TH FLOOR PITTSBURGH, PA. 15222</p> <p>Daniel J. Henry 4/28/08 APPROVED DATE</p>	<p>DESIGNED SM NARANG DRAWN HT TRAN CHECKED JF SAMEAN IN CHARGE CD JONES DATE APR. 28, 2008 SCALE NTS</p>	<p>PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH</p> <p>NORTH SHORE CONNECTOR NSC TRAIN SYSTEM (SYSTEM WIDE) WOOD STREET INTERLOCKING TWC SYSTEM BLOCK DIAGRAM</p>	
	NO. DATE	DESCRIPTION					REVISIONS	Port Authority

WOOD STREET RELAY ROOM

TWC ROUTE REQUESTS



TWC ROUTE REQUESTS



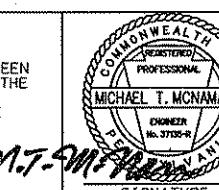
REVISION 1

ALL NEW WORK
NEW SHEET

NO.	DATE	DESCRIPTION
REVISIONS		

Gannett Fleming
Transit & Rail Systems

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE FEDERAL TRANSIT ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION, UNDER THE URBAN MASS TRANSPORTATION ACT OF 1964, AS AMENDED, FOR THE PORT AUTHORITY OF ALLEGHENY COUNTY, PENNSYLVANIA.



MICHAEL T. McNAMARA
OWNER
NO. 3738-R

SIGNATURE

DMJM HARRIS | AECOM
FOUR GATEWAY CENTER
20TH FLOOR
PITTSBURGH, PA. 15222
MT-McNamara
APPROVED DATE

PORT AUTHORITY OF ALLEGHENY COUNTY PITTSBURGH		NORTH SHORE CONNECTOR NSC TRAIN SYSTEM (SYSTEM WIDE) WOOD STREET INTERLOCKING TWC ROUTE REQUESTS	
Port Authority	CONTRACT NO. NSC-009 DWG. NO. 1022-45B	SCALE NTS	SHT. 484

* = CALL-ON ASPECT - FIRST TRACK CIRCUIT IN APPROACH TO SIGNAL MUST BE OCCUPIED
** = SIGNAL MUST DISPLAY Y/R OR G/R

REVISION 1
—○— IN

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 485

ROUTE & LOCKING CHART

WOOD ST.

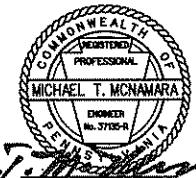
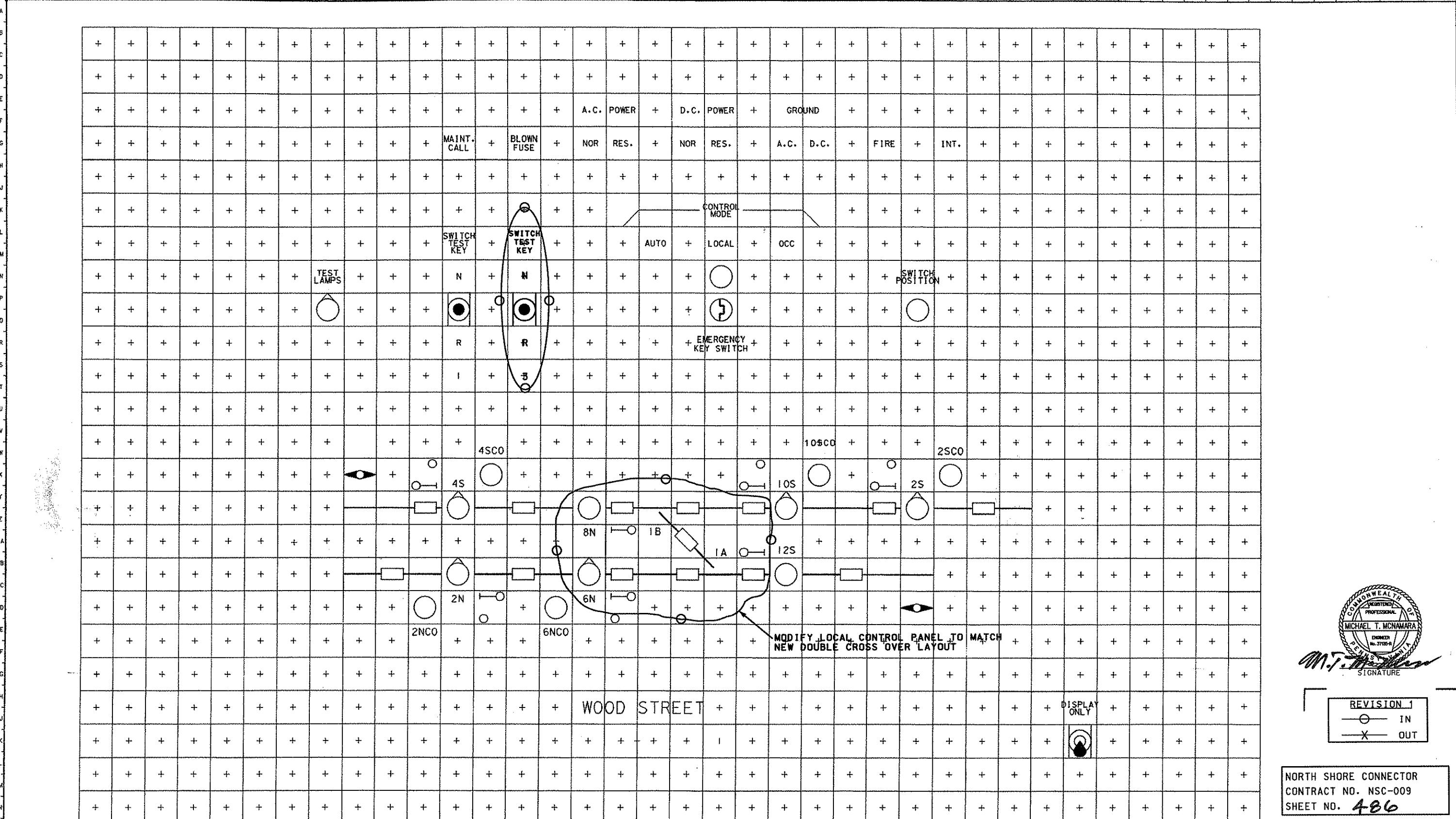
**PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-III
CIRCUITS**

**UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEVILLE, PA. 15218**

T 1375

300

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66



REVISION 1
— O — IN
— X — OUT

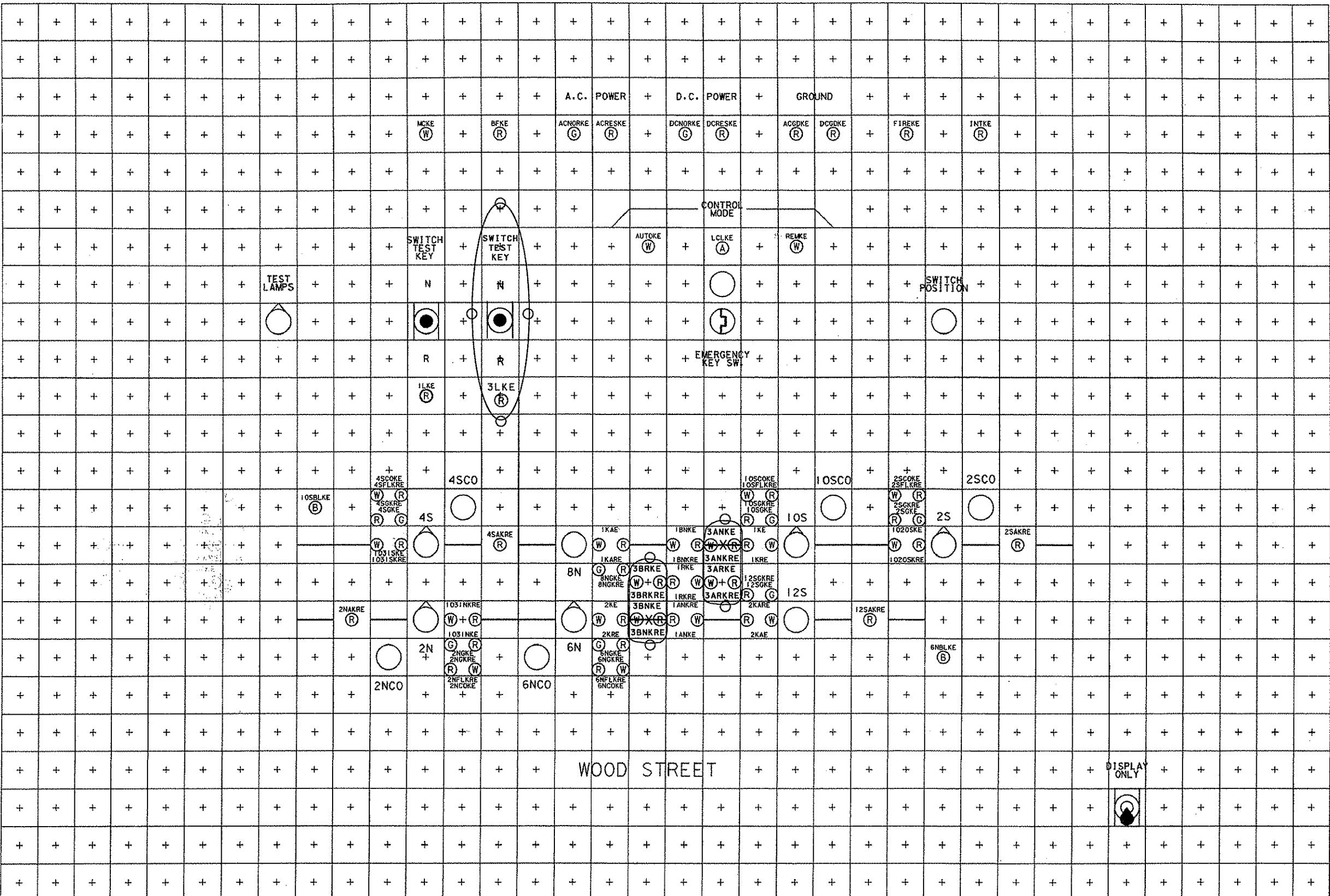
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 486

LOCAL CONTROL PANEL - FACE PLATE		WOOD STREET	
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE OPERATION TESTS OF THE COMPLETE SYSTEM SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: 1/4 IN. C.G. 804220 DATE DESIGNED MJD 11-7-83 DRAWN BM 4-16-85 TRACED CHECKED JHW 1-18-84 O FOR WIRING	APPROVED SH 1022-47 DATE CONT'D ON 1022-48

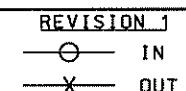
REVISONS

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

A



M.T. McNamara
SIGNATURE



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 487

LOCAL CONTROL PANEL - LIGHTS		WOOD STREET	
R		PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION). TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES
		SCALE: 1/4 INCH = 1 FT C.G. 804220 DATE DESIGNED JUL 11-1-83 DRAWN CAH 4-16-85 TRACED CHECKED JHW 1-18-84 D FOR WIRING K	APPROVED DATE SH 1022-48 CONT'D ON W-INDEX
		SS UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMYSSVILLE, PA 15218	T1373

REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION).
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-III
CIRCUITS

1022-W26A
RACK #9 LAYOUT



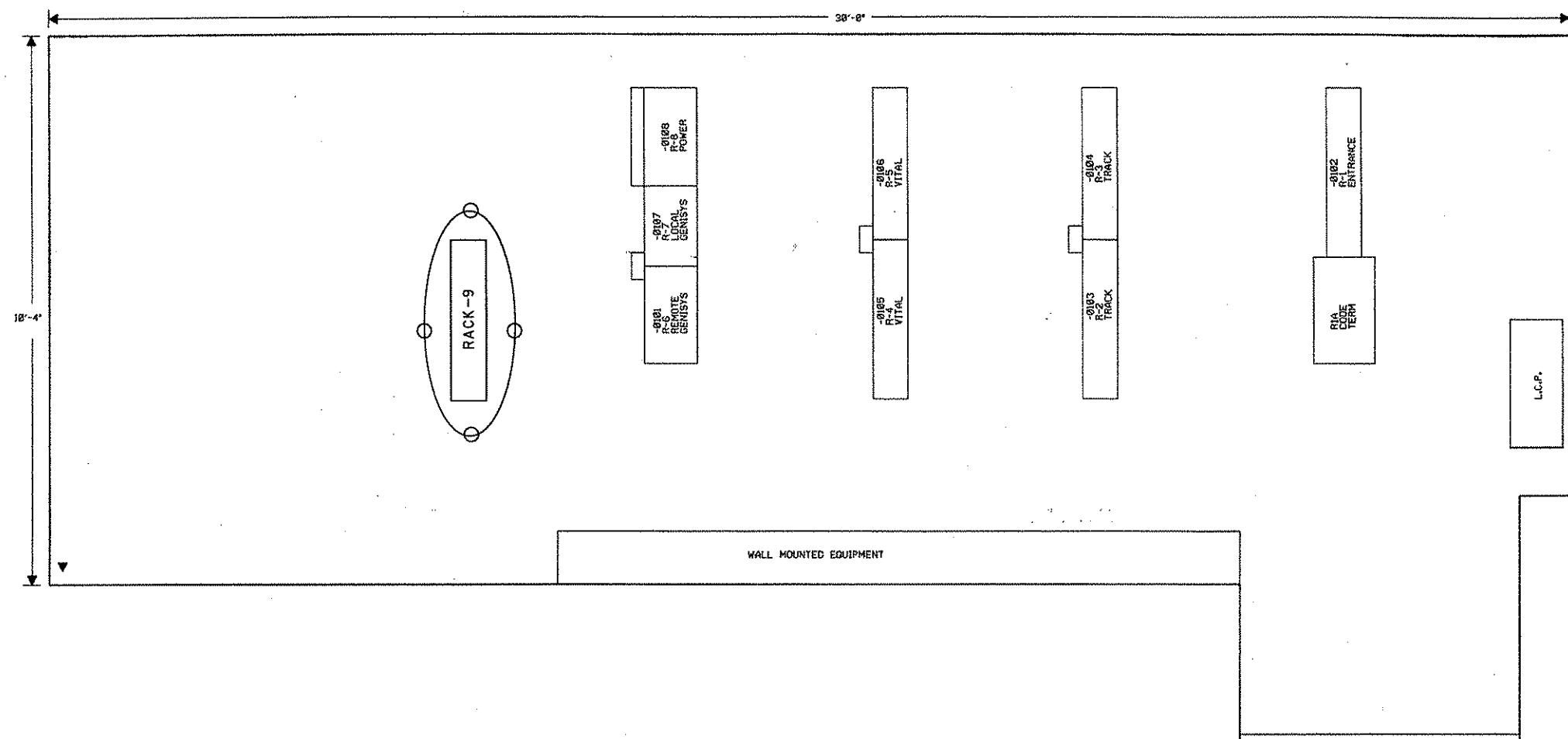
J. H. Johnson
SIGNATURE

REVISION 1

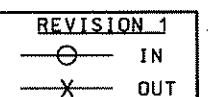
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 488

WIRING DIAGRAM INDEX		WOOD ST.
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED DATE
		SH. W-INDEX DATED ON 1022-WI
 UNION CAR & IRON CASTING DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218	T1373	

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66



DOOR TO TRACK



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 489



MICHAEL T. McNAMARA
P.E.
No. 1022
EXAMINER
NO. 1022-1022

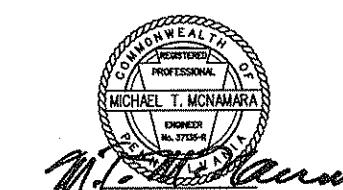
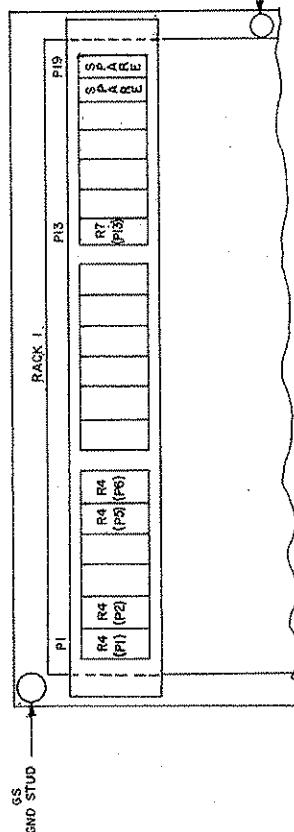
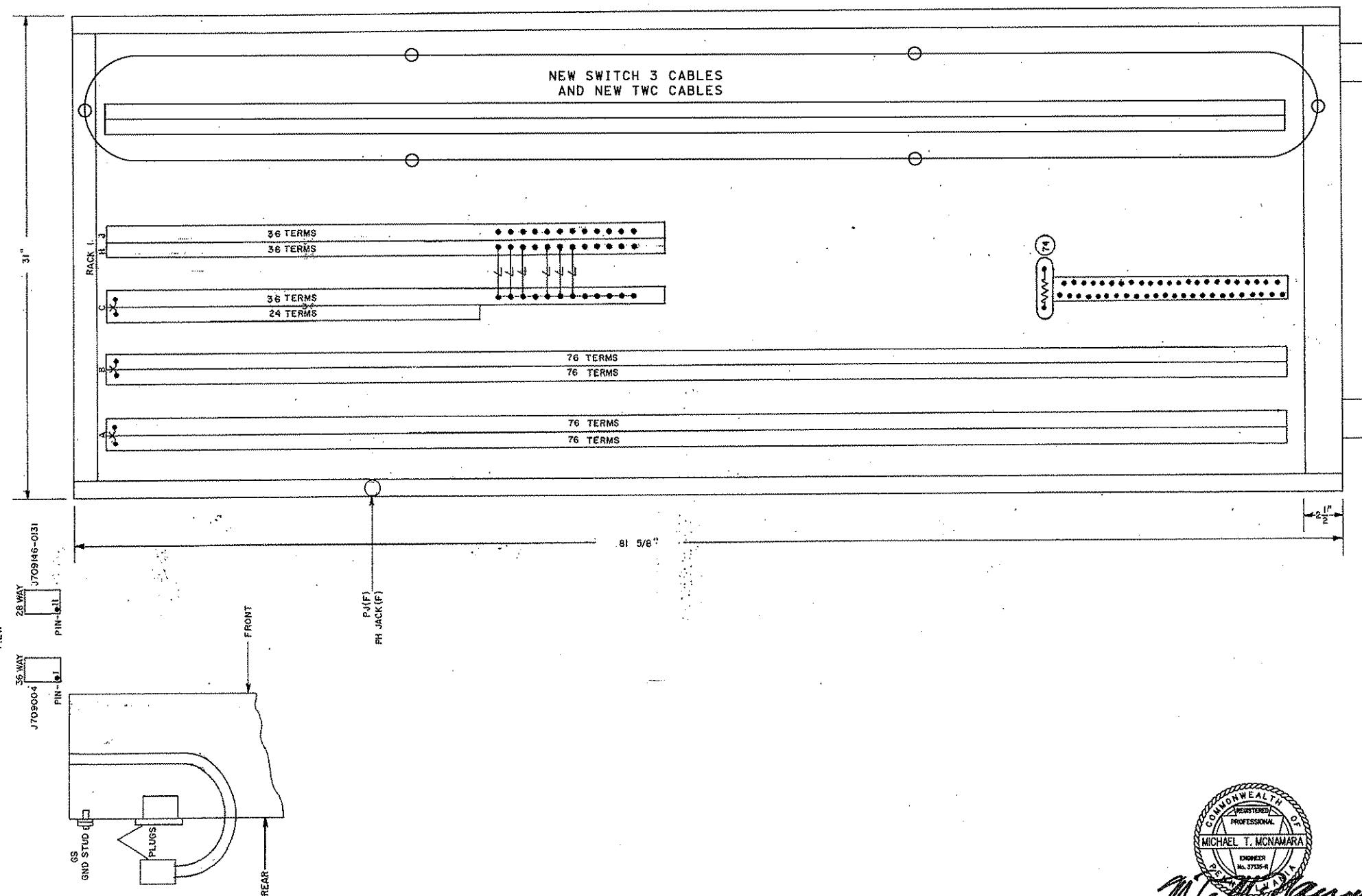
SIGNATURE

ROOM LAYOUT		WOOD STREET	
REVISED		APPROVED SH 1022-WI	DATE 1022-1022

PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN AND SERVICE OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES SCALE: NONE G.O. 804220 DATE DESIGNED SUB 3-13-87 DRAWN FG 3-13-87 TRACED CHECKED O K FOR WIRING	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111 CIRCUITS	APPROVED DATE SH 1022-WI CON'D ON 1022-1022 SS UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218 T1373
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1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

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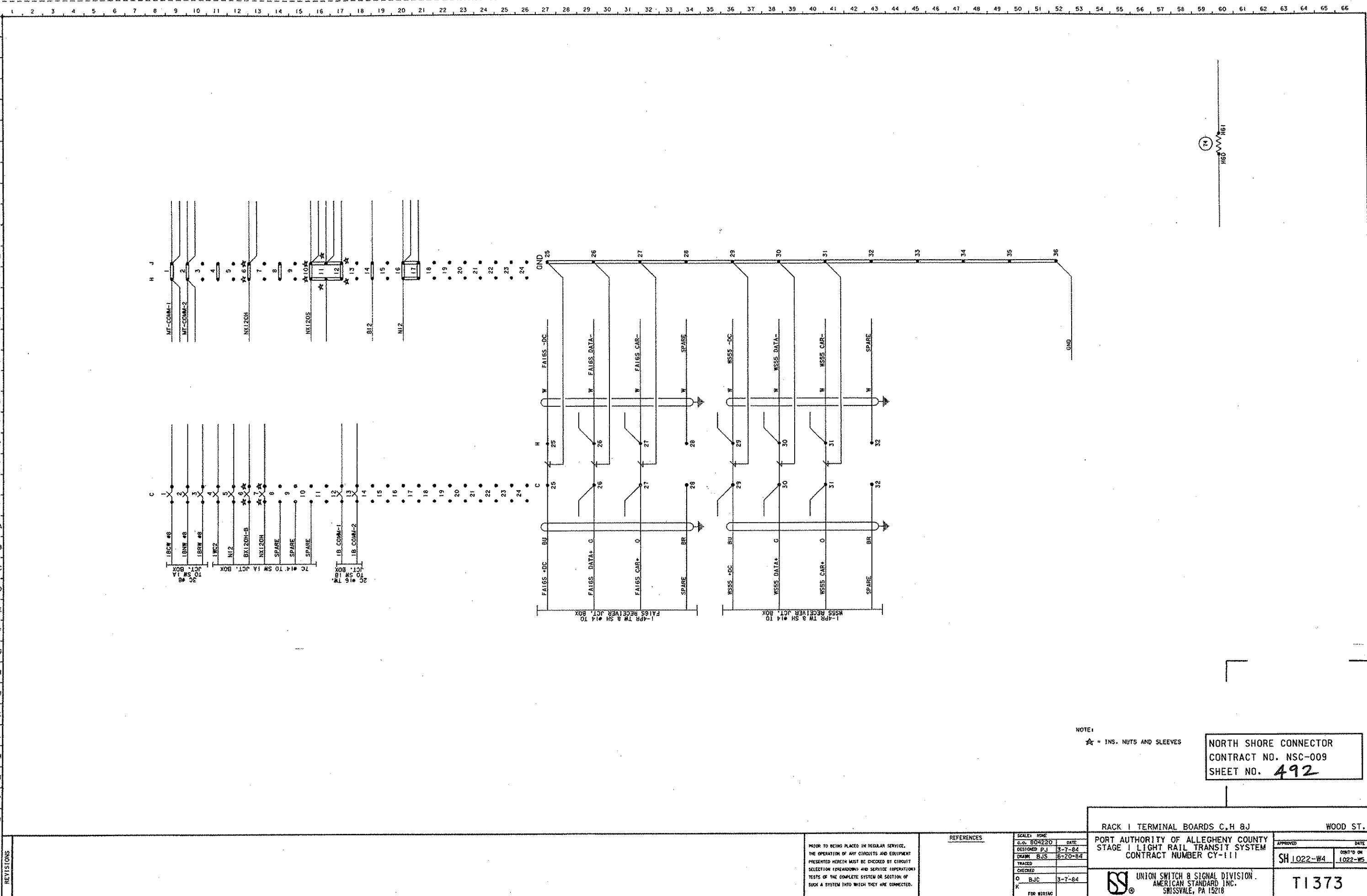
REVISION 1
— IN
X OUT

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 490

REVISIONS	4-9-85
AS INSTALLED	
CHASIB	

REFERENCES	SCALE: 1/2"	DATE: 1-31-84
	DESIGNED PM	1-31-84
	DRAWN CH	6-25-84
	TRACED	
	CHECKED	
	O. T. M.	1-31-84
	X	FOR WIRING

RACK I ENTRANCE LAYOUT		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL SYSTEM CONTRACT NUMBER CY-III		APPROVED DATE SH 1022-W2 1022-W3
	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T1373



1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

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R4(P6)

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R7(P13)

NOTES:
NUMBER ON LEFT INDICATES
CIRCUIT SHEET WHERE PIN
CONNECTION IS SHOWN.
ALL WIRE #20 UNLESS NOTED.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 493

RACK 1 PLUGS P1-P2, P5-P6, P13		WOOD STREET
	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111	APPROVED DATE SH 1022-W5 1022-W6
REVISORS	REFERENCES	UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218

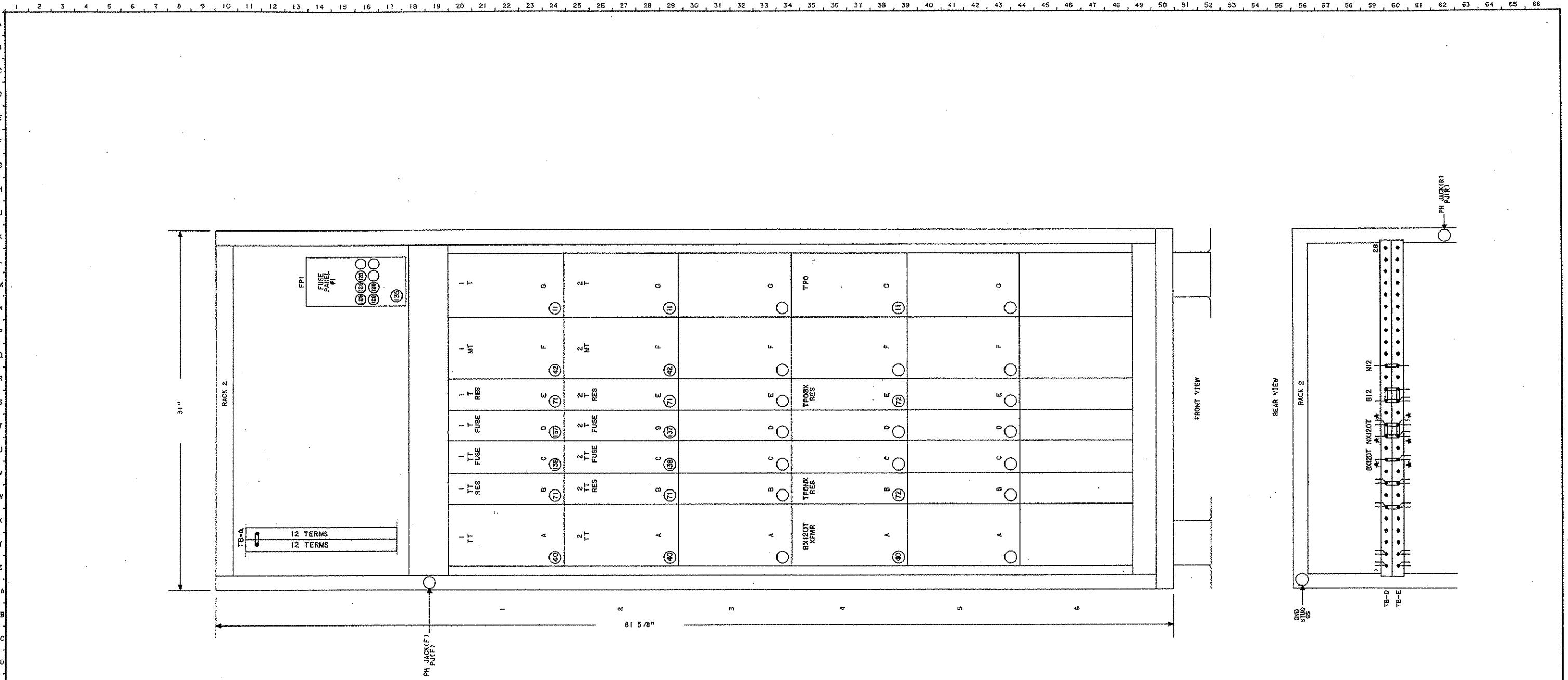
T1373

REVISORS

SCALE: NONE
D.O. 804220 DATE
DESIGNED PJ 5-16-84
DRAWN WCS 6-30-84
TRACED
CHECKED
O DJC 5-16-84
K FOR MIRROR

BS UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSVALE, PA 15218

WOOD STREETS PAT



NOTE: ALL LAs REF. (4) UNLESS NOTED.
★ INS. NUTS & SLEEVES

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 494

REVISIONS	4-9-85
AS INSTALLED	CAN/SJB

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALER HOLE
G.O. 804220 DATE
DESIGNED MUG 1-27-84
DRAWN CAH 6-22-84
TRACED
CHECKED
O TMJ 1-27-84
K FOR WIRING

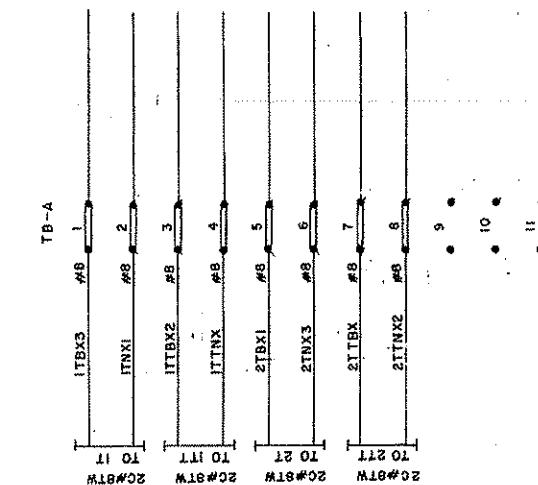
RACK 2 LAYOUT TRACK RACK		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-II		
APPROVED SH 1022-W6	DATE CONT'D ON 1022-W7	

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
MUSKOGEE, OK 74401

T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

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REVISIONS
1 4-9-85 AS INSTALLED WSS/SUB

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (READABILITY) AND SERVICE OPERATIONS
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE	NOTE	DATE
C.O. 804220		3-13-84
DESIGNED PGD		3-13-84
DRAWN WCS		7-2-84
TRACED		
CHECKED		
0 BJC	3-13-84	
X FOR WIRING		

PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111

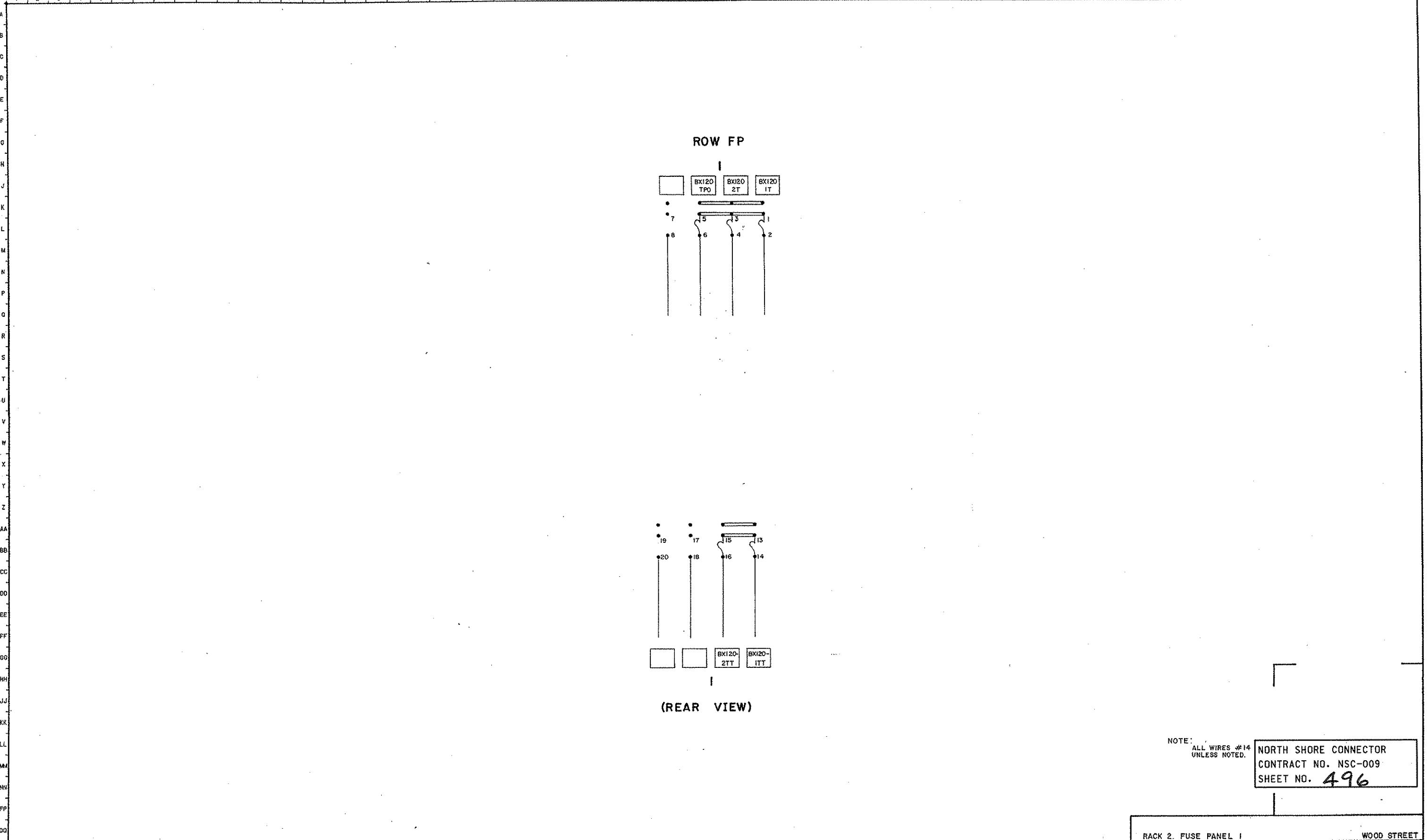
UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEY, PA 15218

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 495

APPROVED -	DATE
SH 1022-W7	COPIED ON 1022-W8

T1373

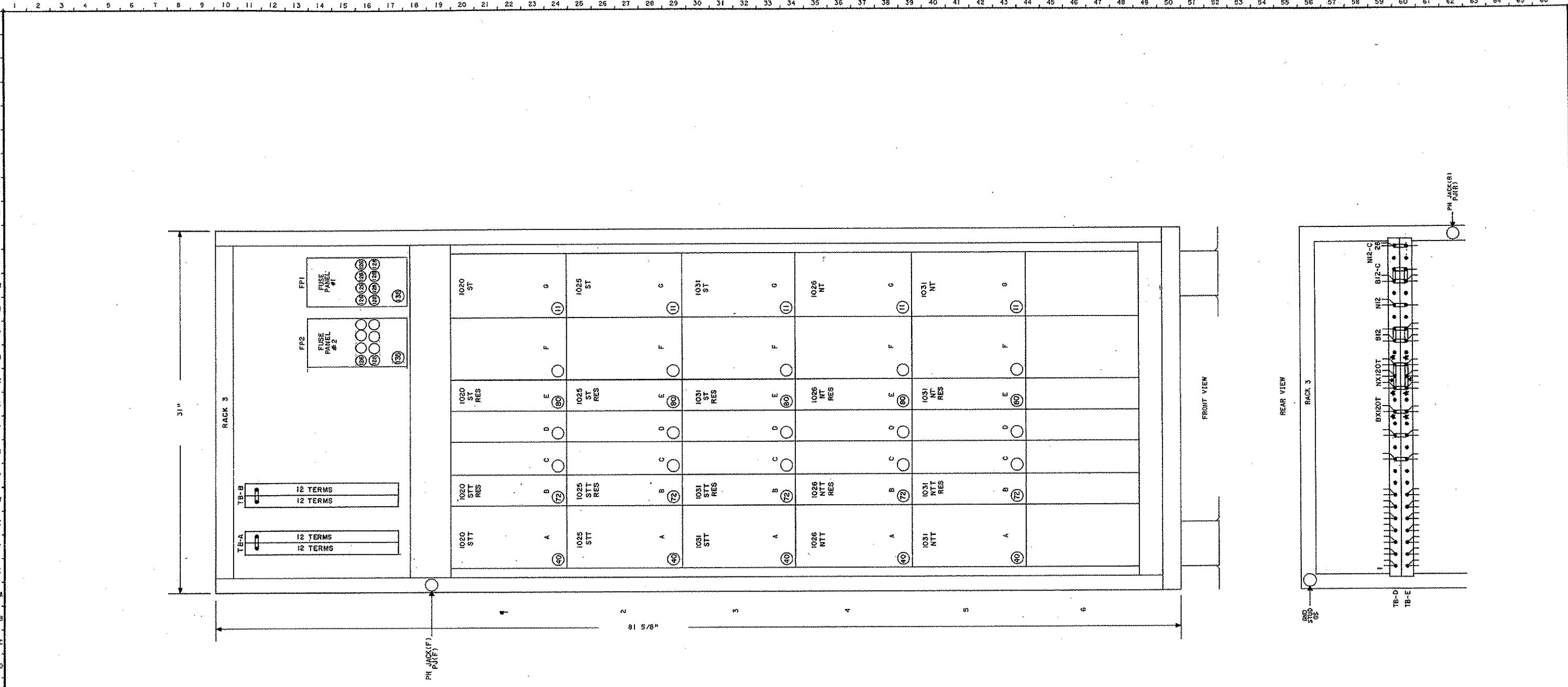
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NOTE:
ALL WIRES #14
UNLESS NOTED.
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 496

REVISIONS	4-9-85
AS INSTALLED	
CAH SUB	

RACK 2. FUSE PANEL I		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III		APPROVED	DATE
G.O. 804220	DATE	SH 1022-WB	04/10/84
DESIGNED PGD	5-13-84	CHANGED	
DRAWN CAH	6-19-84	TRACED	
CHECKED			
O BJC	5-13-84	K FOR WIRING	
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218			T1373



NOTE: ALL LA'S REF. (4) UNLESS NOTED.
★ INS. NUTS AND SLEEVES

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 497

REVISIONS	4-9-85
AS INSTALLED	
CAH SUB	

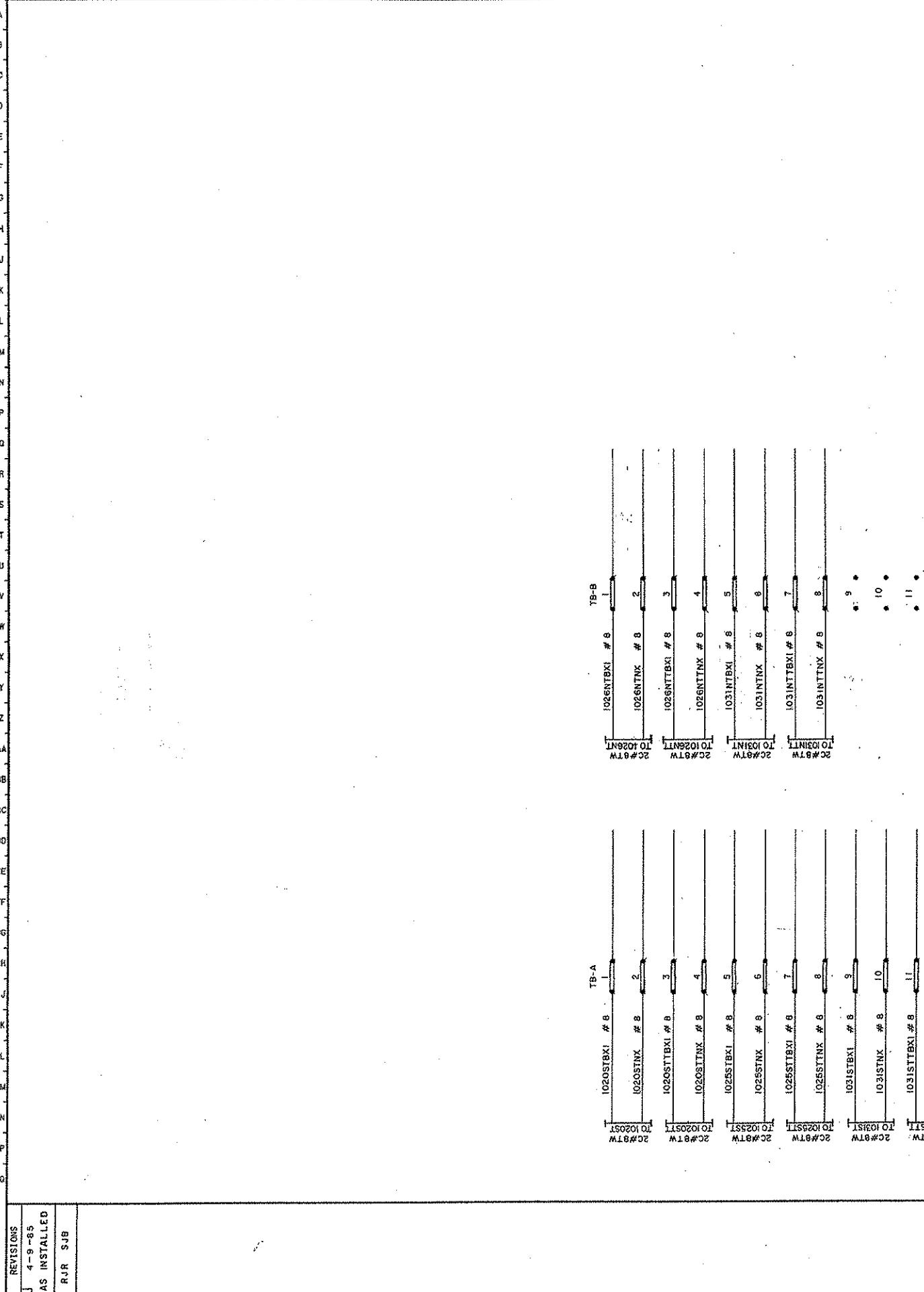
PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE/NOTE	0.0. 804220	DATE
DESIGNED MJG	1-27-84	
DRAWN CAH	6-25-84	
TRACED		
CHECKED		
O TMJ	1-27-84	
K FOR KIRING		

RACK 3 LAYOUT TRACK RACK		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-11	APPROVED SH 1022-W9	DATE 022-W10
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMYSSVILLE, PA 15218	T1373	TP15.PAT

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 498

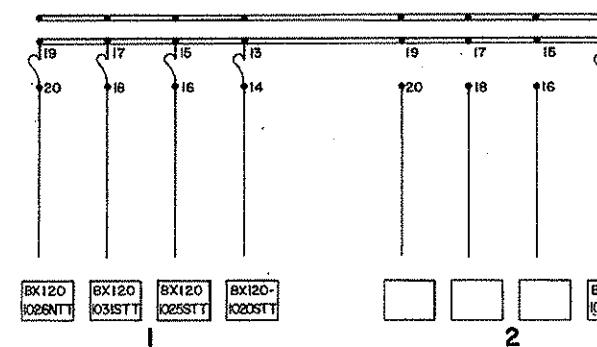
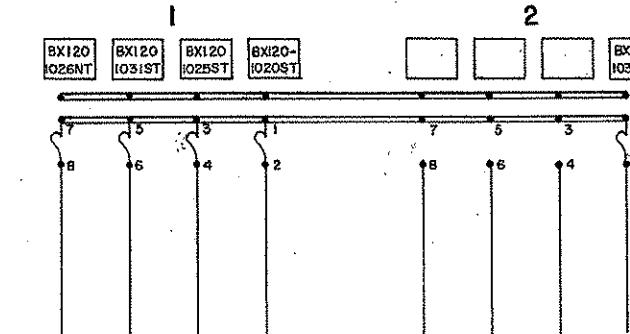
RACK 3 TERMINAL BOARDS A & B		WOOD STREET
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ALL CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (HEADROOM) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALEY NO. 804220 DATE 3-13-84 DESIGNED PGD 3-13-84 DRAWN RUR 6-22-84 TRACED CHECKED O BJC 3-13-84 FOR MIRING
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111	APPROVED SH 1022-W10 DATE CONT'D ON 1022-W11	
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. MUNISING, PA 15218	T1373	TS-S-PAT

4-9-85
AS INSTALLED
RJR SJB

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(REAR VIEW)

NOTE:
ALL WIRES #14
UNLESS NOTED

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 499

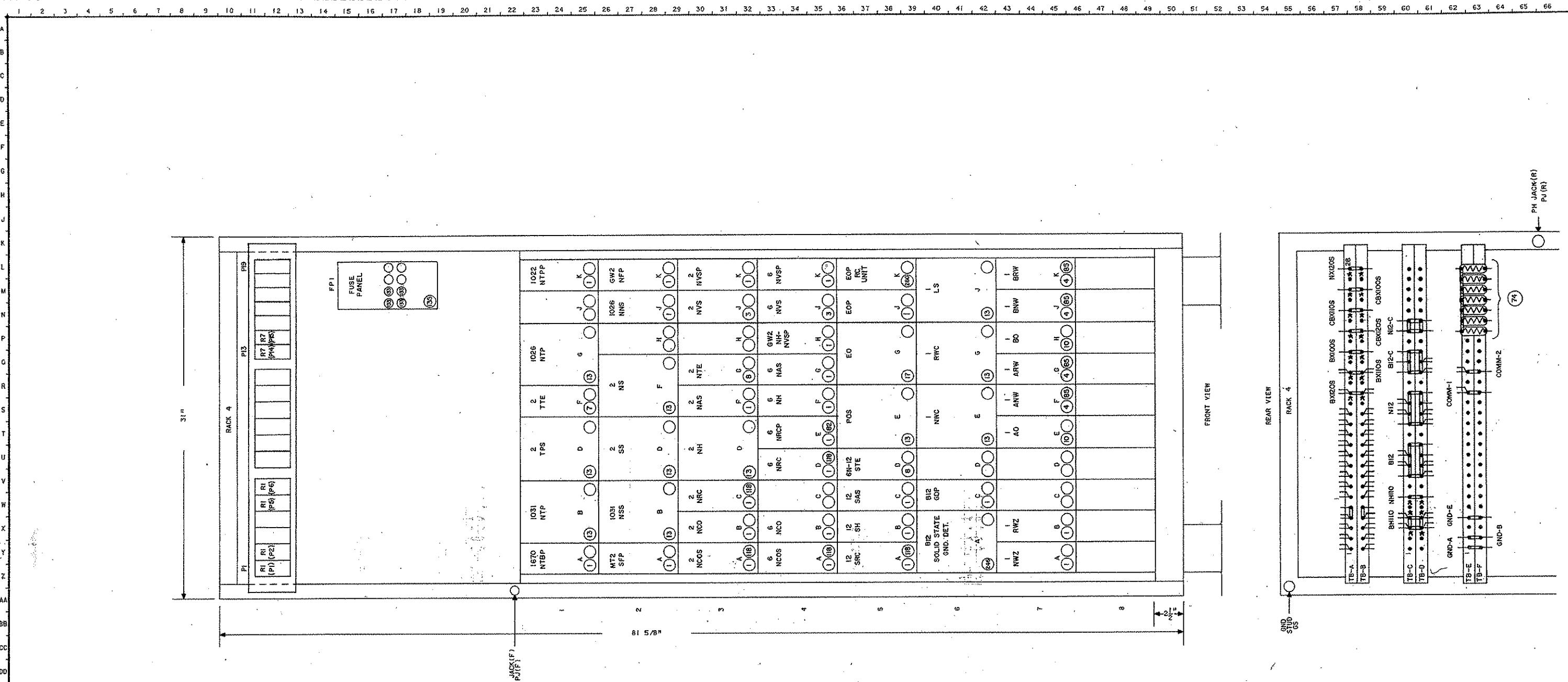
REVISIONS	4-9-85
AS INSTALLED	
CAH : SJB	

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN AND SERVICE COORDINATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE	NAME	DATE
6:0	804220	
DESIGNED PGD	3-13-84	
DRAWN CAH	6-20-84	
TRACED		
CHECKED		
O BJC	3-13-84	
K FOR WIRING		

RACK 3 FUSE PANELS		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED DATE SH 1022-WII CONF'D ON 1022-WII
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218	T1373	



NOTES:
* INS. NUTS AND SLEEVES.

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 500

BACK 4 LAYOUT VITAL BACK WOOD STREET

**PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-11**

WOOD STREET

CONT'D

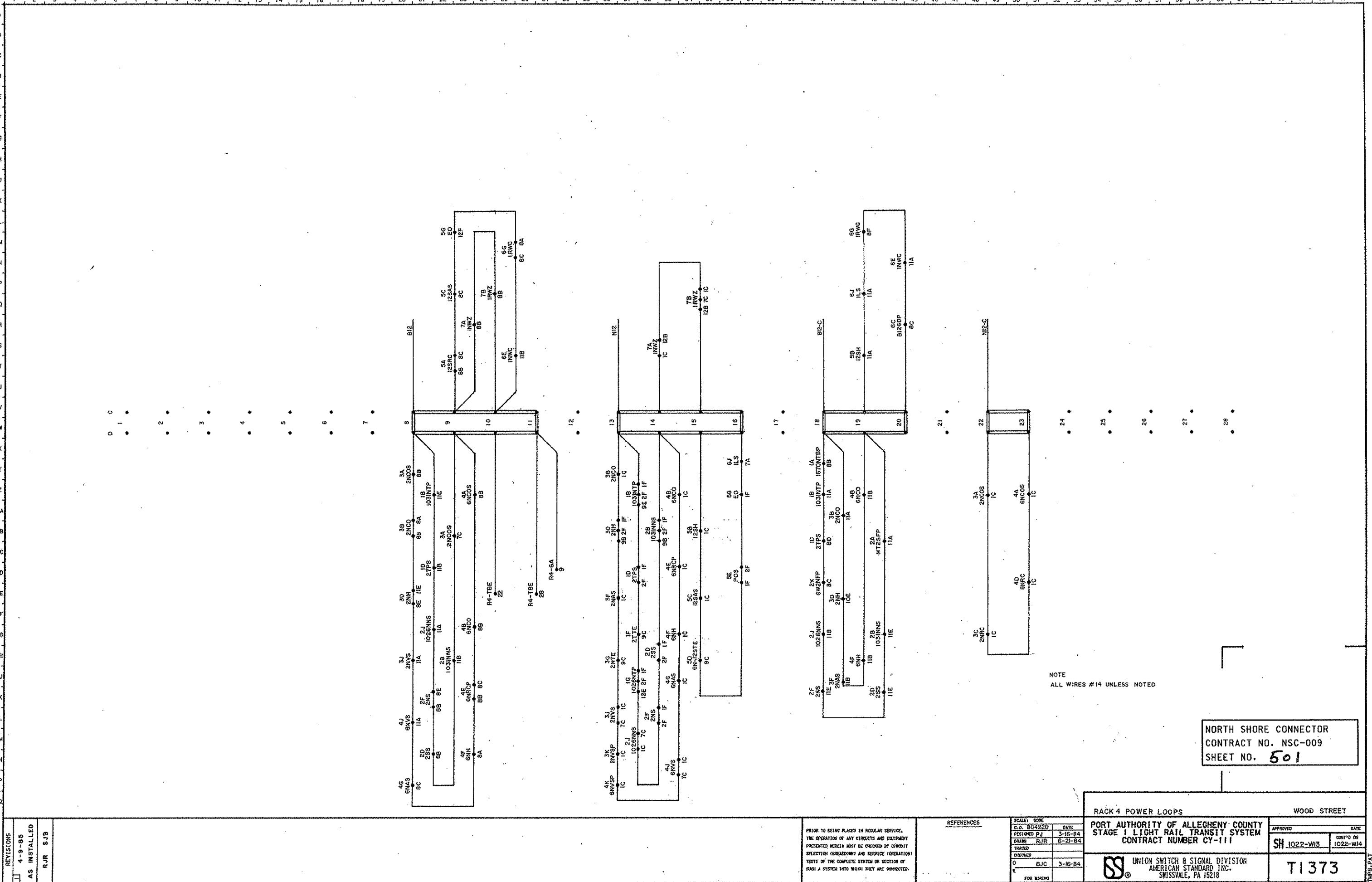
REVISIONS	
4-9-85	
AS INSTALLED	

1000

REFERENCES

SCALE: NONE
S.O. 804220
DESIGNED MJG
DRAWN RJR
TRACED
CHECKED
0 TMJ
K

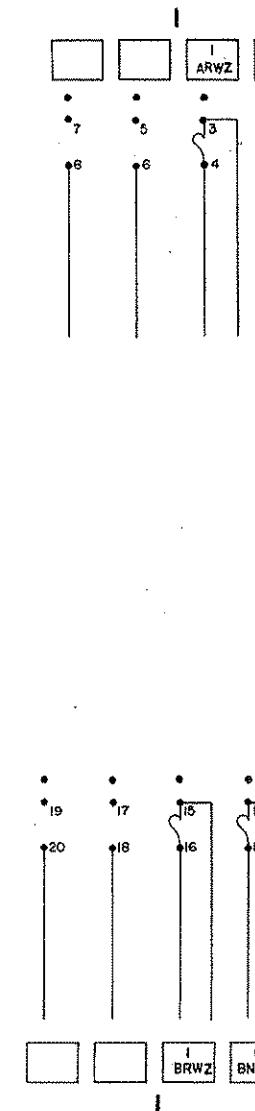
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-11		APPROVED
		SH 1022-WI2
		CONT'D 1022
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMVILLE, PA 15218	T1373	



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(REAR VIEW)

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 502

NOTE:
ALL WIRES #14
UNLESS NOTED.

RACK 4 FUSE PANEL		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED SH 1022-W14	
REVISENS 4-9-85 AS INSTALLED CH SJB	PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE OPERATION TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NONE C.O. 804220 DATE DESIGNED PJ 3-16-84 DRAWN CH 6-19-84 TRACED CHECKED 0 BJC 3-16-84 FOR WIRING
			DATE COTD ON 1022-W15 SS UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SMYSSVILLE, PA 15218 T1373

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

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R7(P14)

NOTES:
 NUMBER ON LEFT INDICATES
 CIRCUIT SHEET WHERE PIN
 CONNECTION IS SHOWN.
 ALL WIRE #20 UNLESS NOTED.

NORTH SHORE CONNECTOR
 CONTRACT NO. NSC-009
 SHEET NO. 503

REVISIONS

--	--

PRIOR TO BEING PLACED IN REGULAR SERVICE,
 THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
 PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
 SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
 TESTS OF THE COMPLETE SYSTEM OR SECTION OF
 SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE: NONE

G.O.

DATE

DESIGNED P1

3-16-84

DRAWN WCS

6-30-84

TRACED

CHECKED

0 BJC

3-16-84

K FOR RISING

APPROVED

DATE

SH 1022-W15

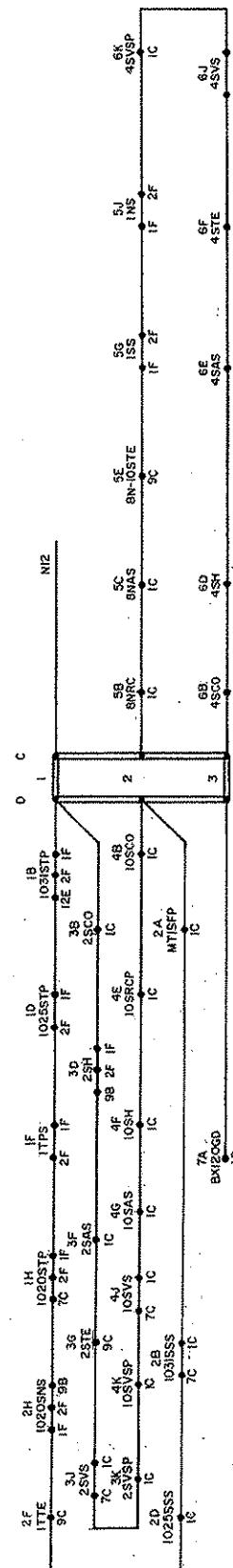
1022-W16

UNION SWITCH & SIGNAL DIVISION
 AMERICAN STANDARD INC.
 SWISSEVALE, PA 15218

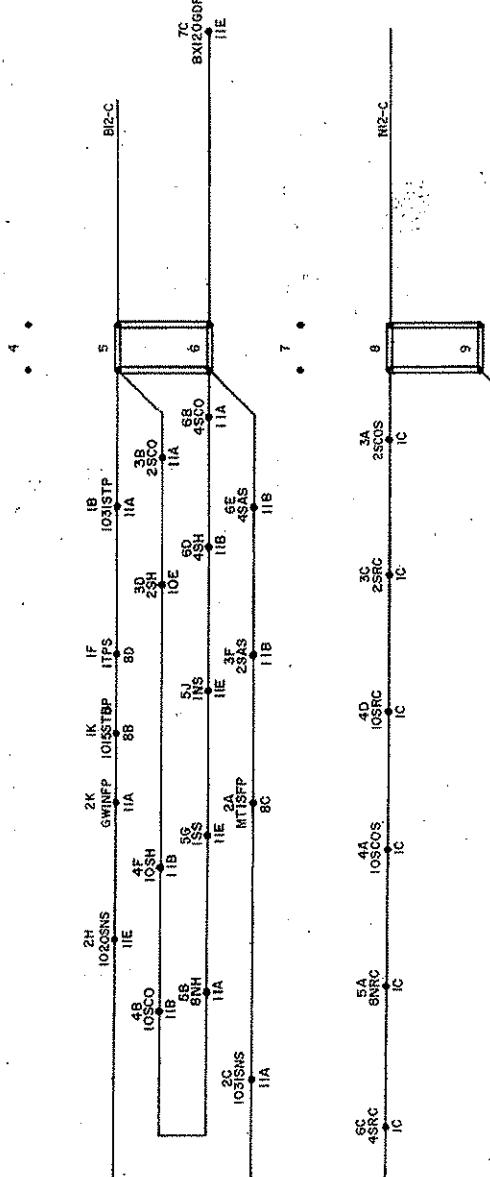
T1373

SS	WOOD STREET
WOOD WOODS, PAT	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III

REVISIONS
I 4-9-85 AS INSTALLED BAR SUB



6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66



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PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (REHEARDING) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE: NONE
E.O. 804220 DATE
DESIGNED PJ 3-15-84
DRAWN RUR 6-25-84
TRACED
CHECKED
O BJC 3-15-84
K FOR WIRING

APPROVED
PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111
SH 1022-W18 DATE
CONT'D ON
1022-W19

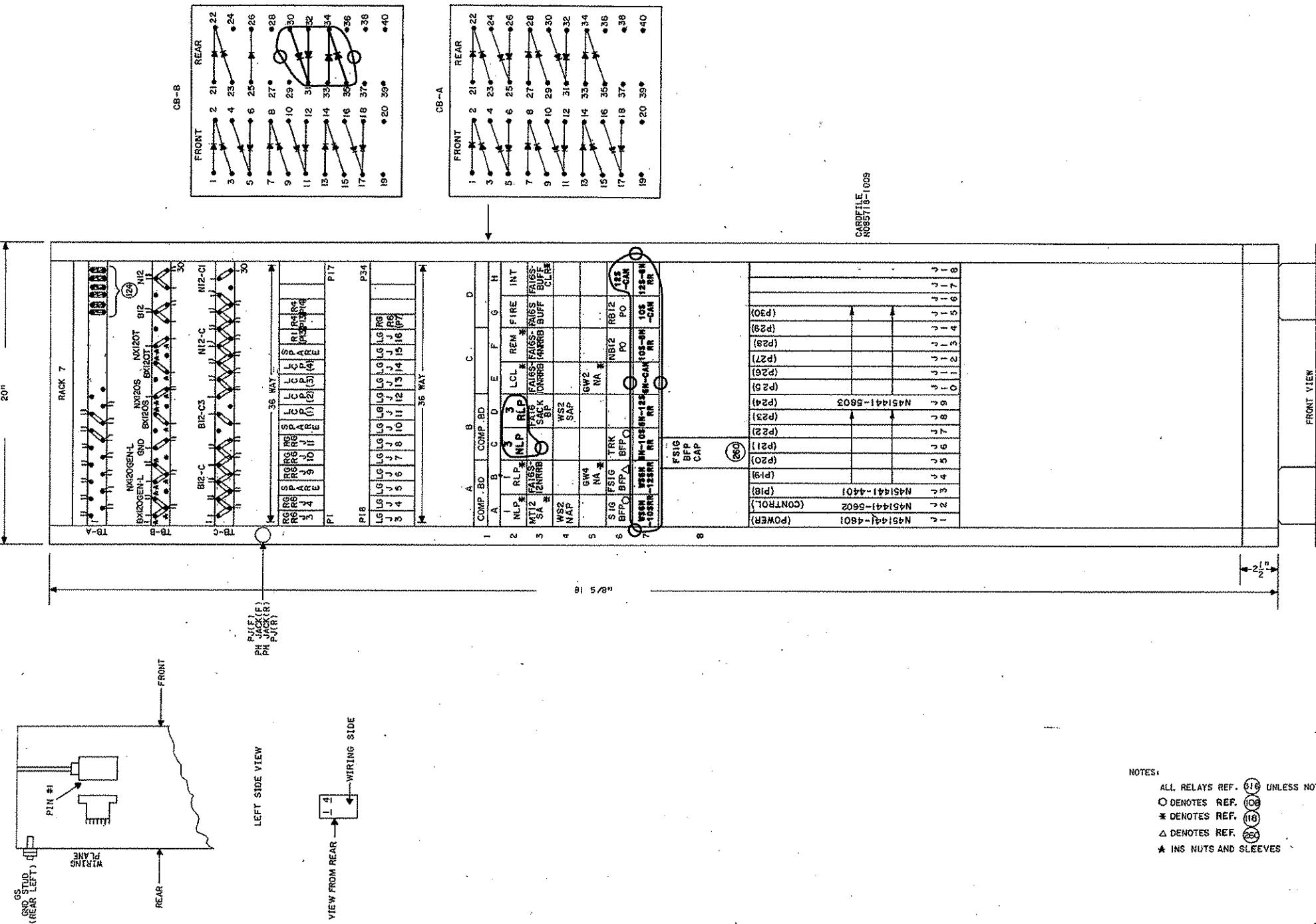
UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEY, PA 15218

T1373

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 506

RACK 5 POWER LOOPS WOOD STREET

REVISIONS
4-9-85
AS INSTALLED
CH SJB



PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE: NONE

D.O. 804220 DATE

DESIGNED PM I-27-84

DRAWN CH 6-26-84

TRACED

CHECKED

0 TMJ I-27-84

X FOR DRAWING

APPROVED

DATE

SH 1022-W19

CONT'D ON

I022-W20

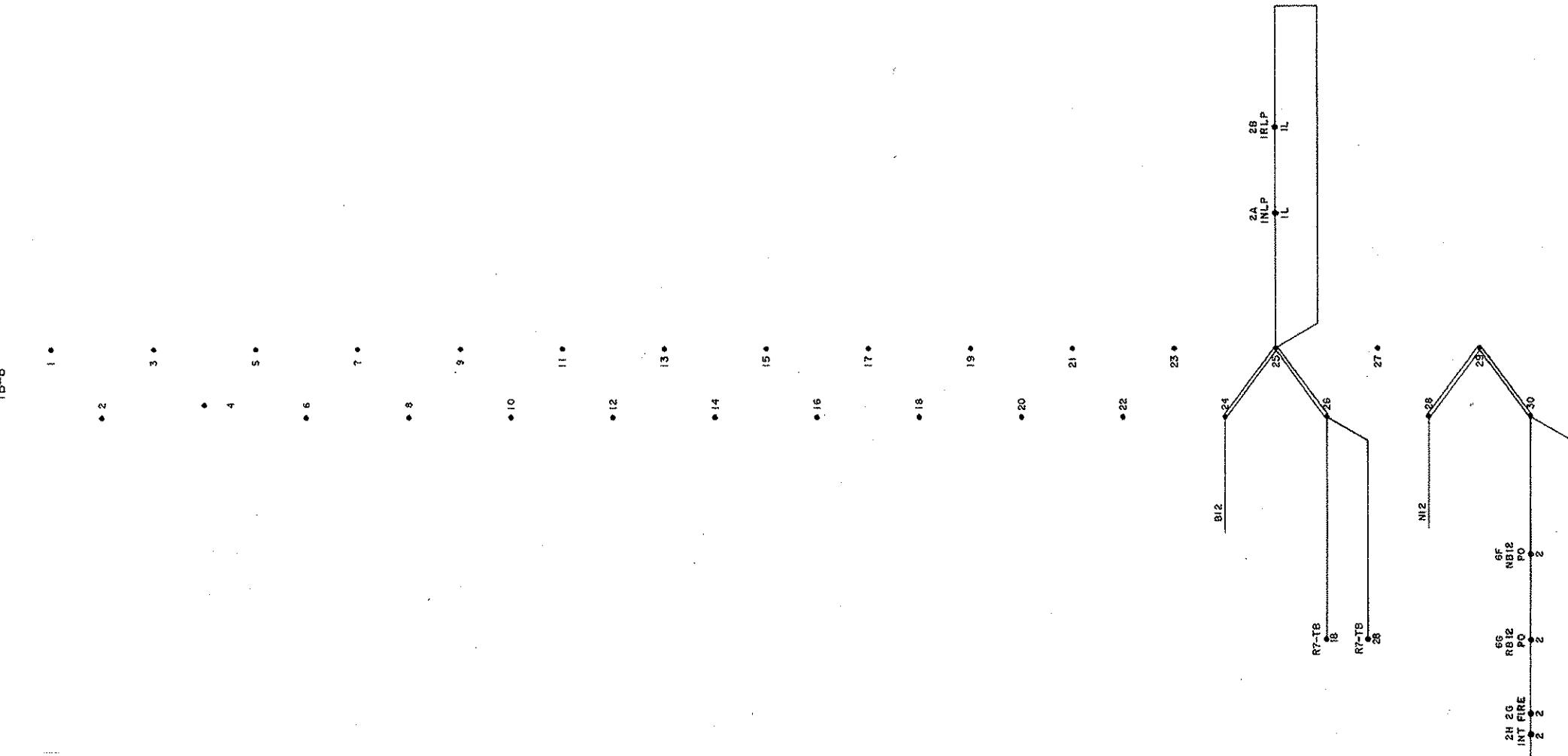
UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEVALE, PA 15216

T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 59 60 61 62 63 64 65 66

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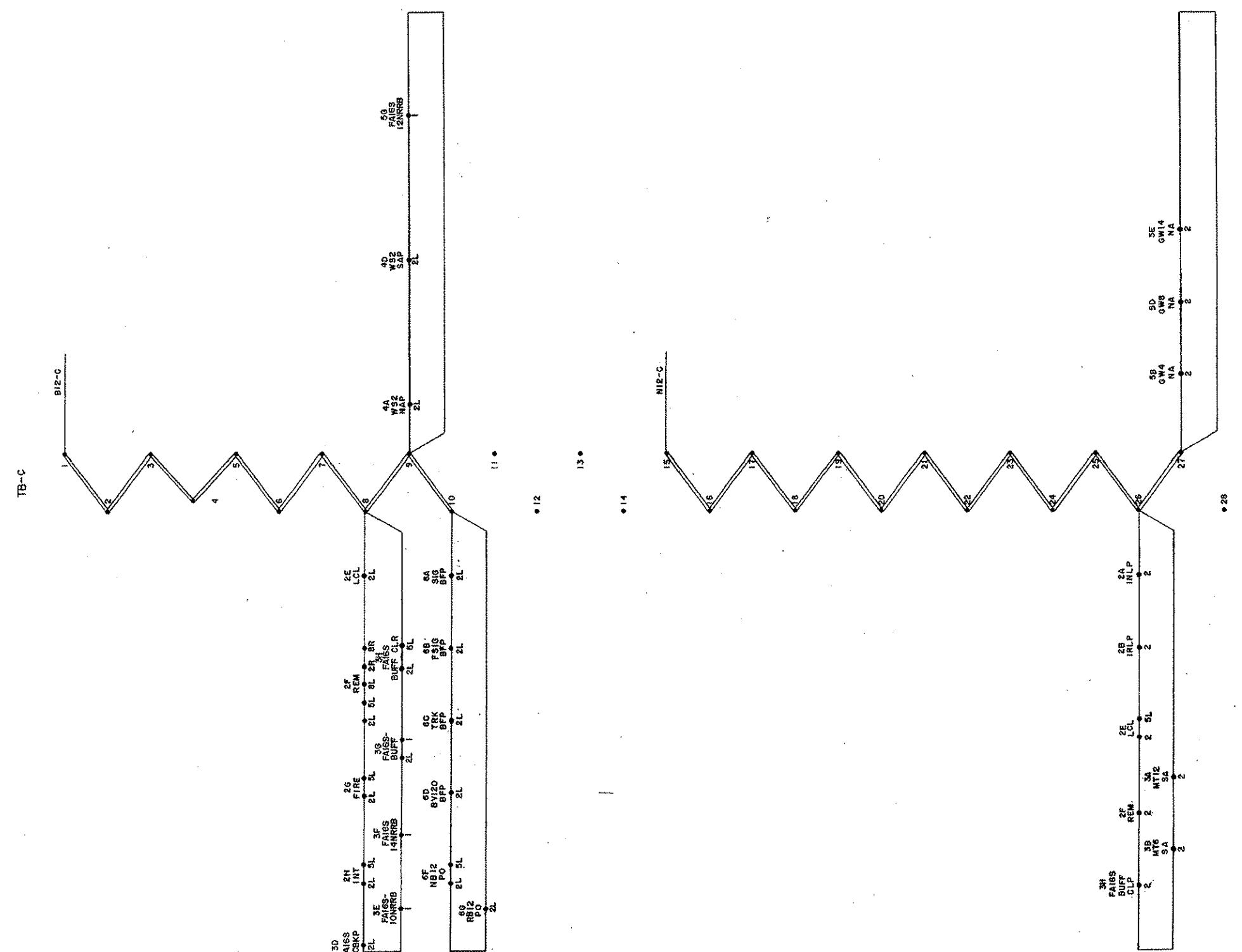


NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 508

RACK 7 POWER LOOPS	WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111	
APPROVED SH. 1022-W20	DATE CONT'D ON 1022-W21
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T1373

REVISIONS	4-9-85	WCS SJB
	AS INSTALLED	

REVISIONS
4-9-85 AS INSTALLED WCS SJB



NOTE:
ALL WIRING #20
UNLESS NOTED.
CONTRACT NO. NSC-009
SHEET NO. 509

RACK 7 POWER LOOPS		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED SH 1022-W21 DATE 1022-W22
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (MANUFACTURER AND SERVICE INFORMATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: 1/4 INCH = 1 FT E.O. 804220 DATE DRAWN SWM 3-16-84 DRAFTED WCS 7-2-84 CHECKED 0 BJC 3-16-84 K FOR WIRING

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEVALE, PA 15218

T1373

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

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RG-R6-J4

P4
RG-R6-J9

P5
RG-R6-J10

P6
RG-R6-J11

P8
LCP(1)

P9
LCP(2)

P10
LCP(3)

P11
LCP(4)

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 510

RACK 7 PLUGS P1,P2,P4-P6,B P8-P11		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED	DATE
SH 1022-W22	1022-W23	SH 1022-W22	1022-W23
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218	T1373	TAFCO-PAT	

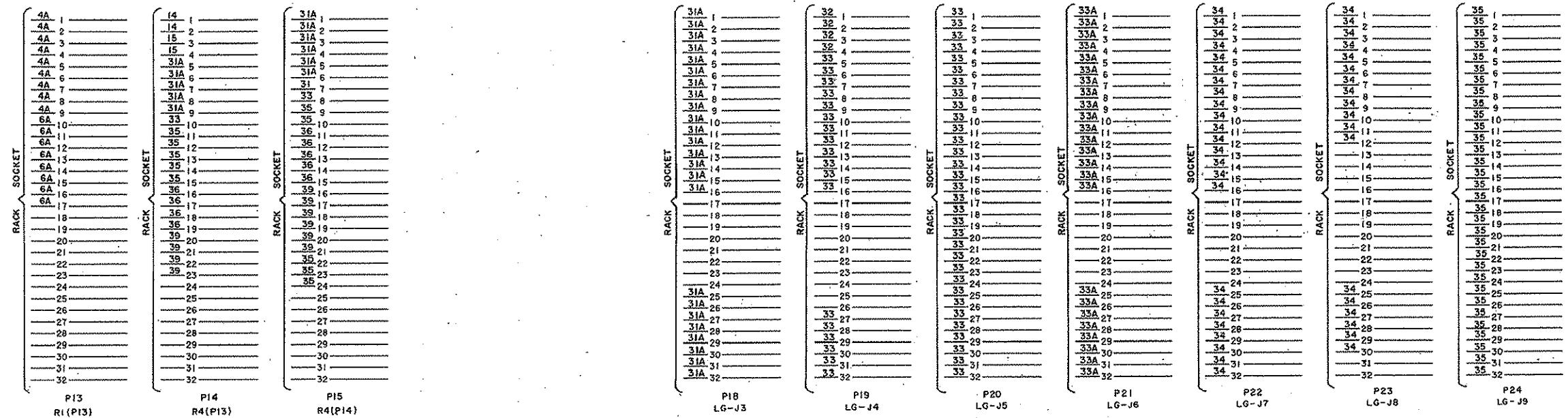
REVISIONS	4-9-85
AS INSTALLED	SUB
RJR	

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (IF NECESSARY) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE: 1/4"
J.G. 804220 DATE
DESIGNED SWM 3-14-84
DRAWN RJR 7-2-84
TRACED
CHECKED
O BJC 3-16-84
FOR WIRING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66



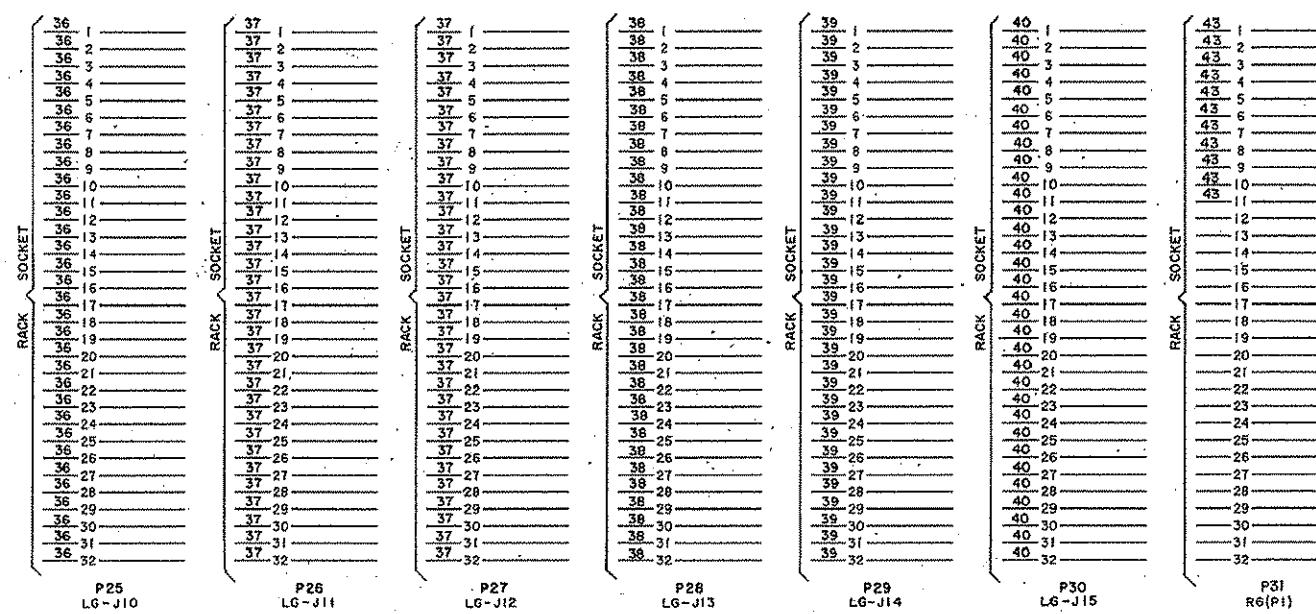
NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 511

RACK 7 PLUGS PI3-PI5 & PI8-P24		WOOD STREET
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE 1 LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED SH 1022-W23
REVISIONS 1 4-9-85 AS INSTALLED AGL/SJB	REFERENCES	SCALE: NONE DESIGNED SWM DATE 3-14-84 DRAWN AGL 6-29-84 TAKED CHECKED O BJC 3-16-84 K FOR MISSING
		CONT'D ON SH 1022-W24

UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEYALE, PA 15216

T1373

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66



NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 512

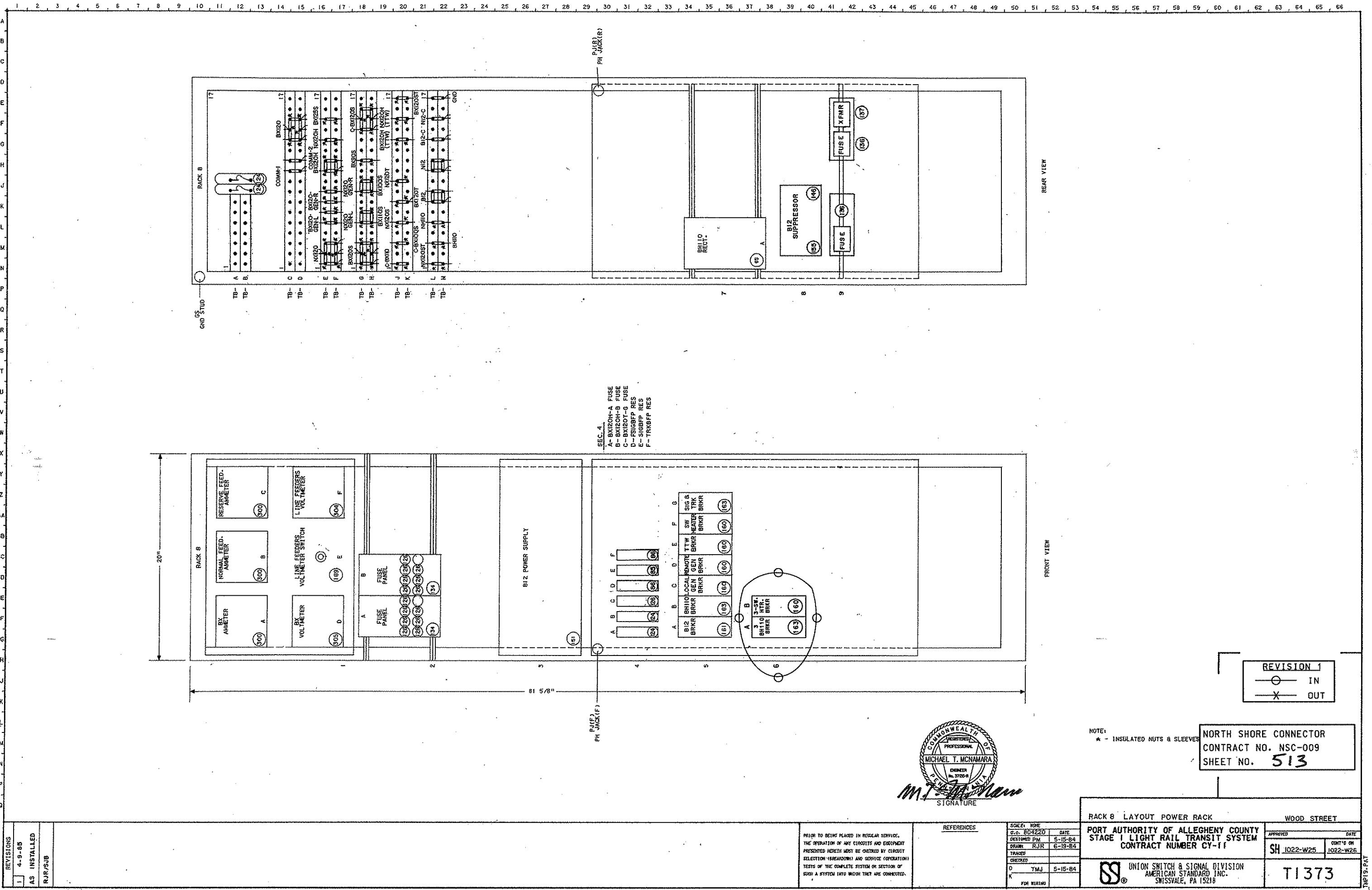
RACK 7 PLUGS P25-P31		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III		APPROVED	DATE
SH 1022-W24	CONT'D ON 1022-W25		
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSVALE, PA 15218	T1373		

REVISIONS	4-9-85
AS INSTALLED	
AGL/SUB	

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE (INSULATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

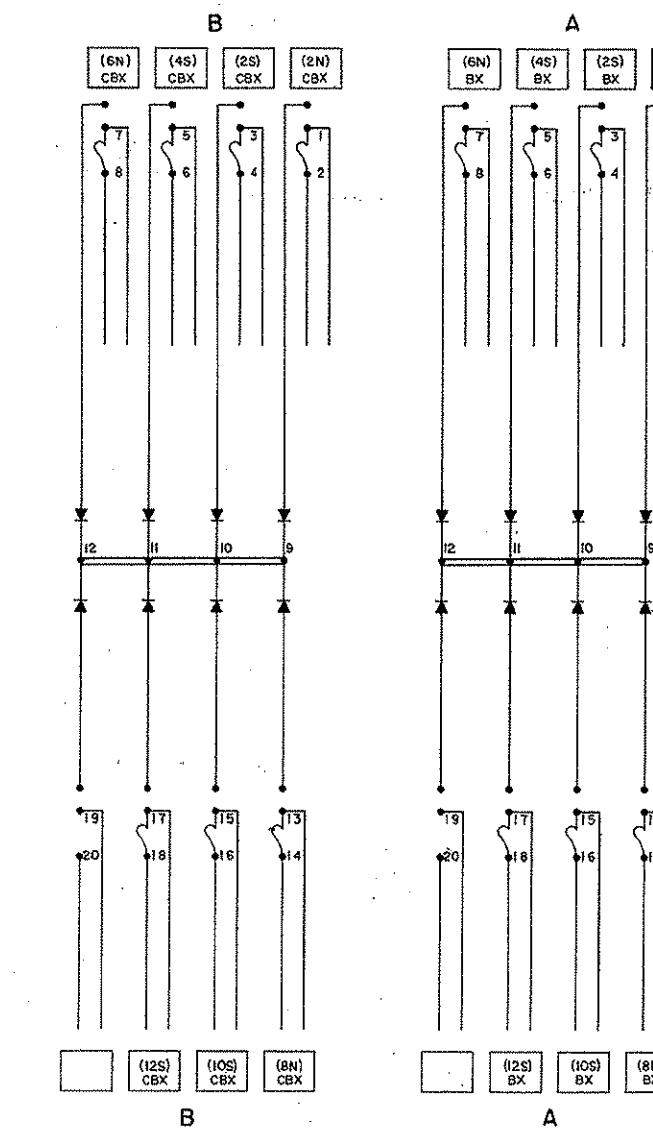
REFERENCES

SOCKET HOLE	G.O. 804220	DATE
DESIGNED SWM	3-14-84	
DRAWN AGL	6-19-84	
TRACED		
CHECKED		
O BJC	3-16-84	
K	FOR WIRING	



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

ROW 2

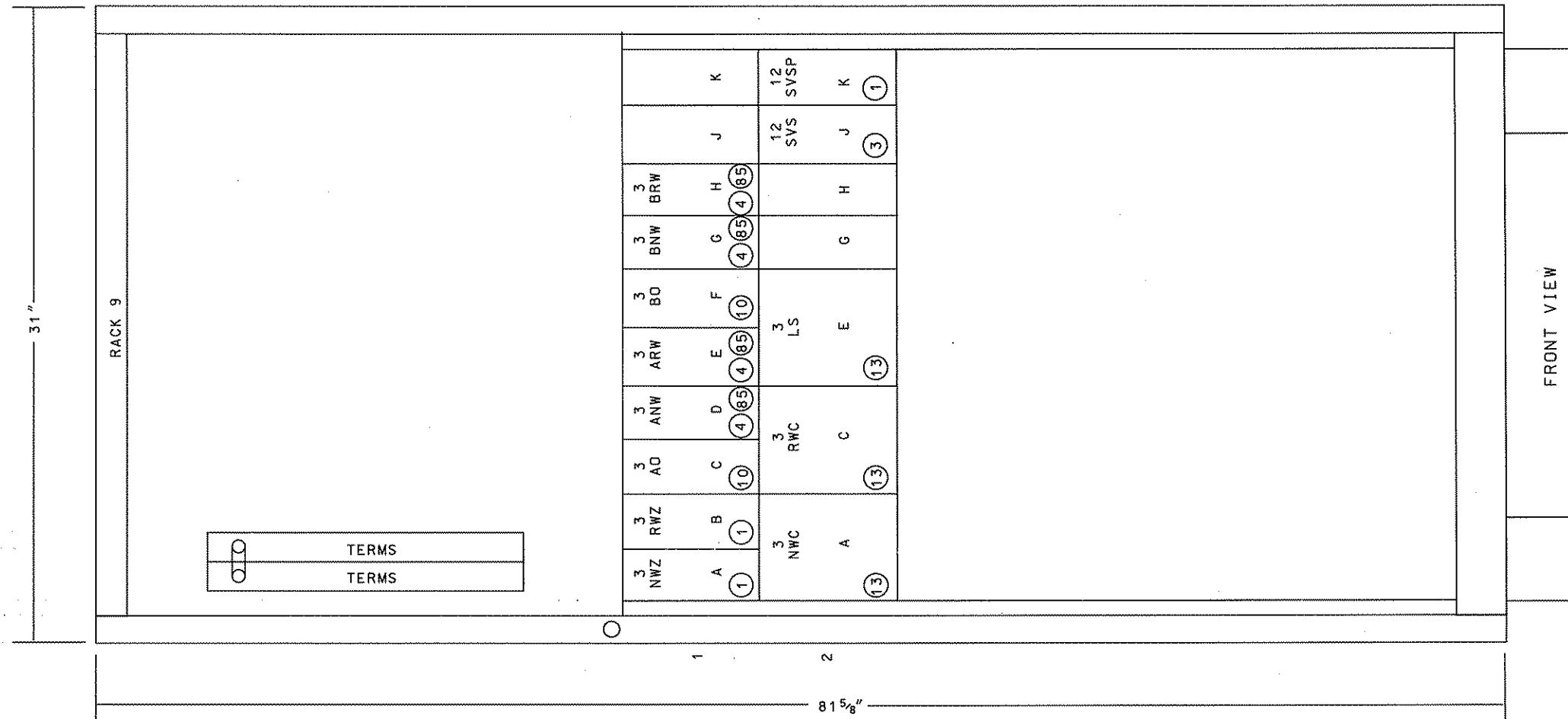


(REAR VIEW)

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 514

NOTE:
ALL WIRES #14
UNLESS NOTED.

RACK 8 FUSE PANELS		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-111		APPROVED DATE SH 1022-W26 1022-W27	
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION (BREAKDOWN) AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	SCALE: NONE C.O. 804220 DATE DESIGNED MM 3-14-84 DRAWN RJR 6-21-84 TRACED CHECKED D BJC 3-14-84 K FOR WIRING	APPROVED DATE SH 1022-W26 1022-W27
REVISED 4-9-85 AS INSTALLED R.R/SJB	SS UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSELE, PA 15218	T1373	THE PAT

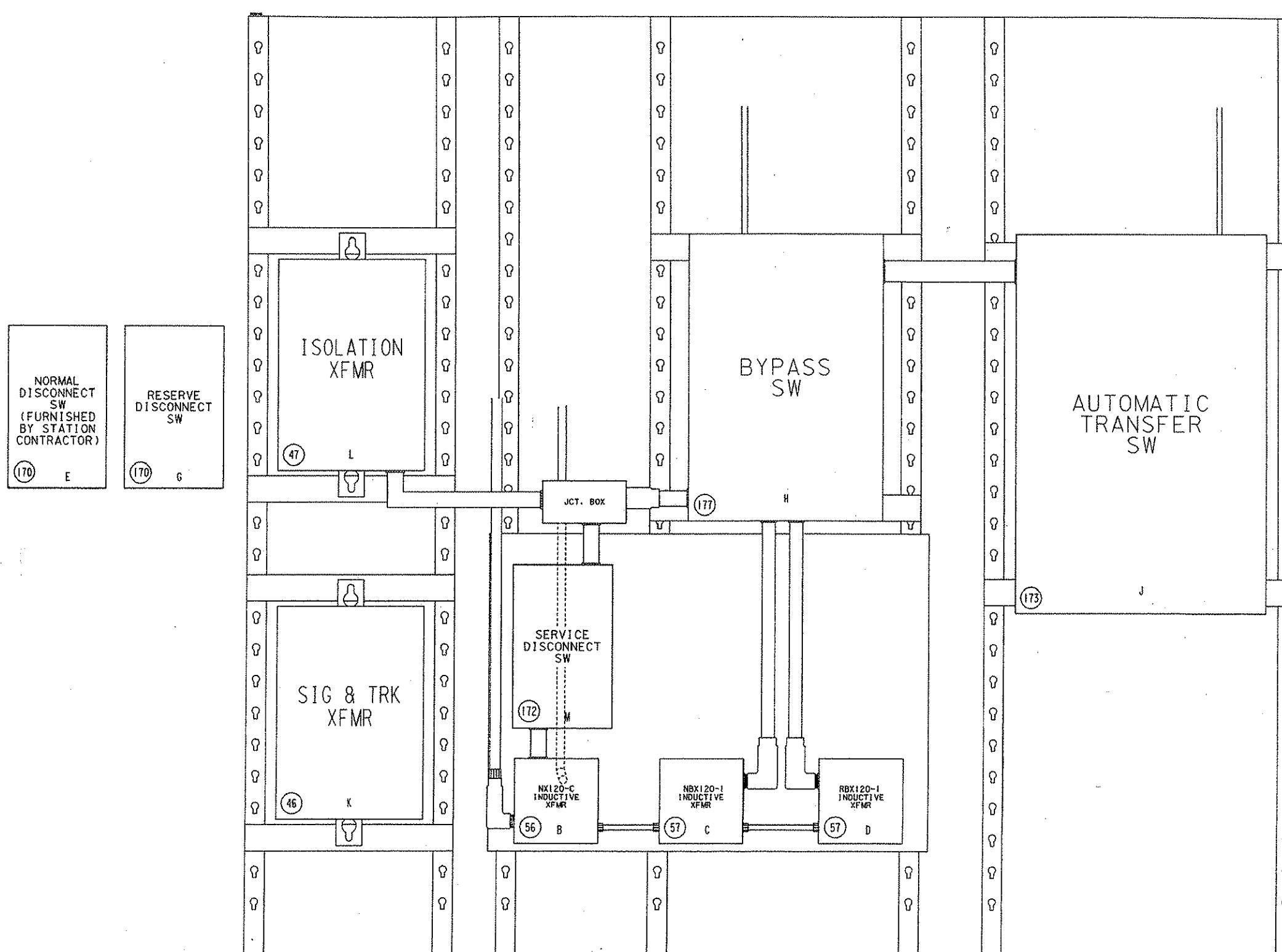


REVISION 1

ALL NEW WORK
NEW SHEET

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66

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NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 516

REVISIONS

PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (READABILITY) AND SERVICE (OPERATION)
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

SCALE

NAME

DATE

D.G. 80422D

DESIGNED

MJC

2-1-84

DRAWN

RJR

6-27-84

TRACED

CHECKED

O TMJ

2-1-84

K

FOR WIRING

PORT AUTHORITY OF ALLEGHENY COUNTY
STAGE I LIGHT RAIL TRANSIT SYSTEM
CONTRACT NUMBER CY-111

APPROVED

DATE

CONT'D ON

1022-W27

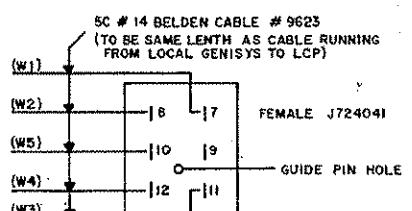
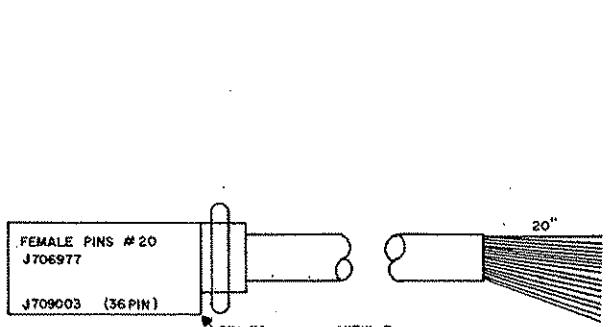
1022-W28



UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SMYSSVILLE, PA 15218

T1373

WOOD ST.	

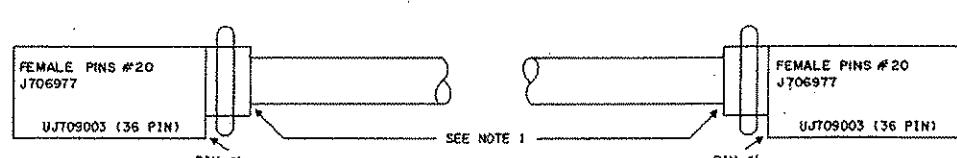
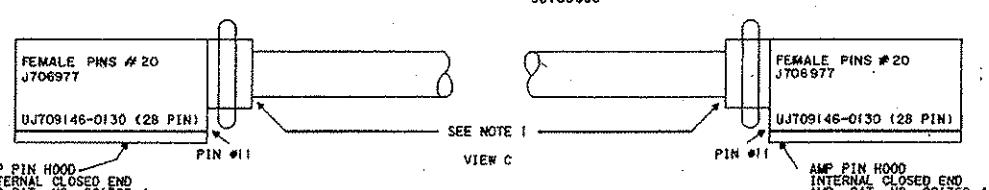
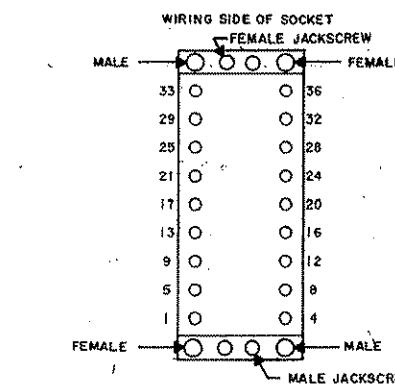


SOLDER AND USE SHRINK TUBING A 774227

VIEW-F

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Избр. произведения / в/х сопр. Екатерина Кузнецова

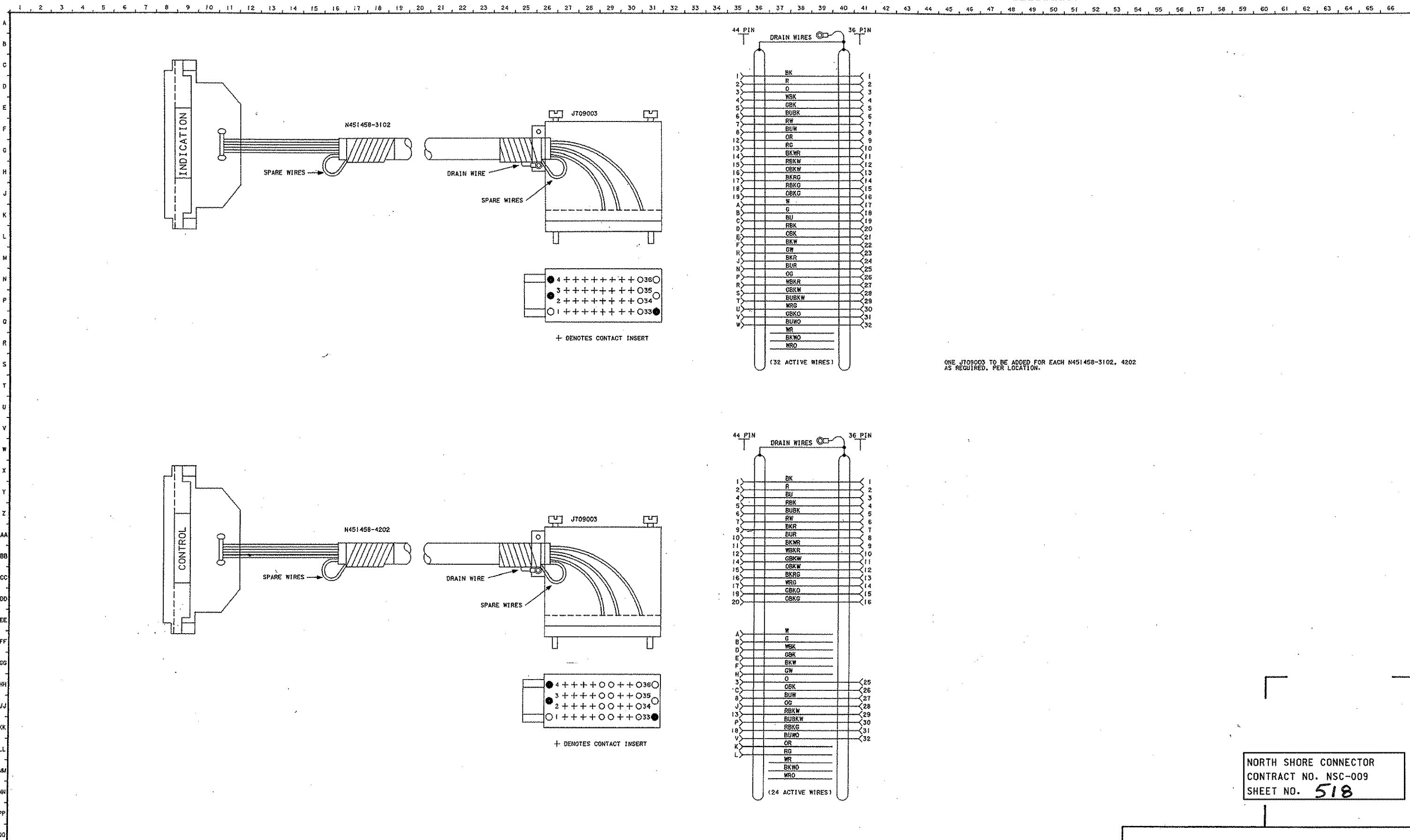
CABLES RACK TO RACK		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-1111		APPROVED	DATE
		SH 1022-W28	CONT'D ON 1022-W29
 UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. MTISSENALE, PA 15218		T1373	



ON SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SMYTHEVILLE, PA 15218

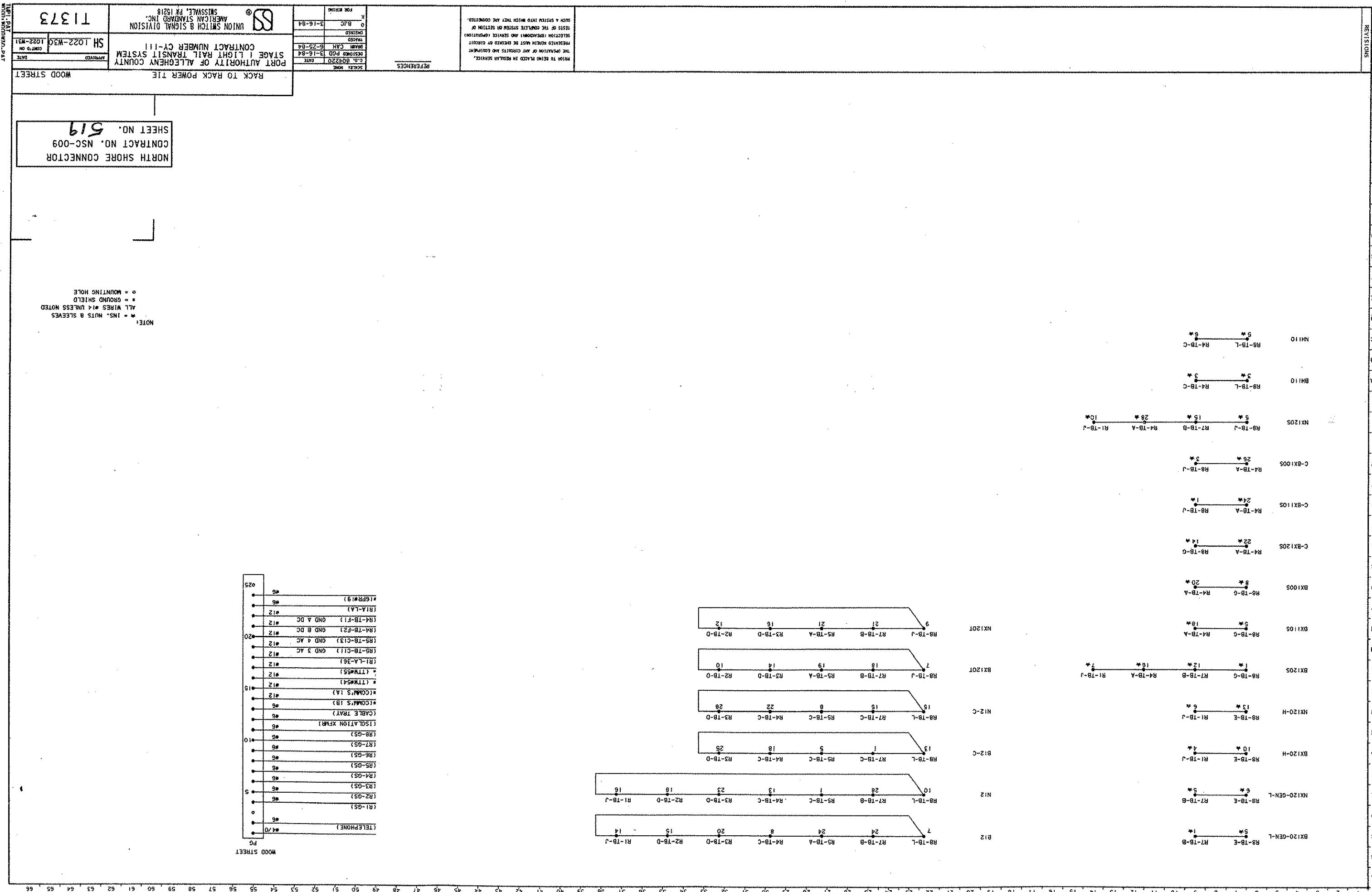
T1373

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 517

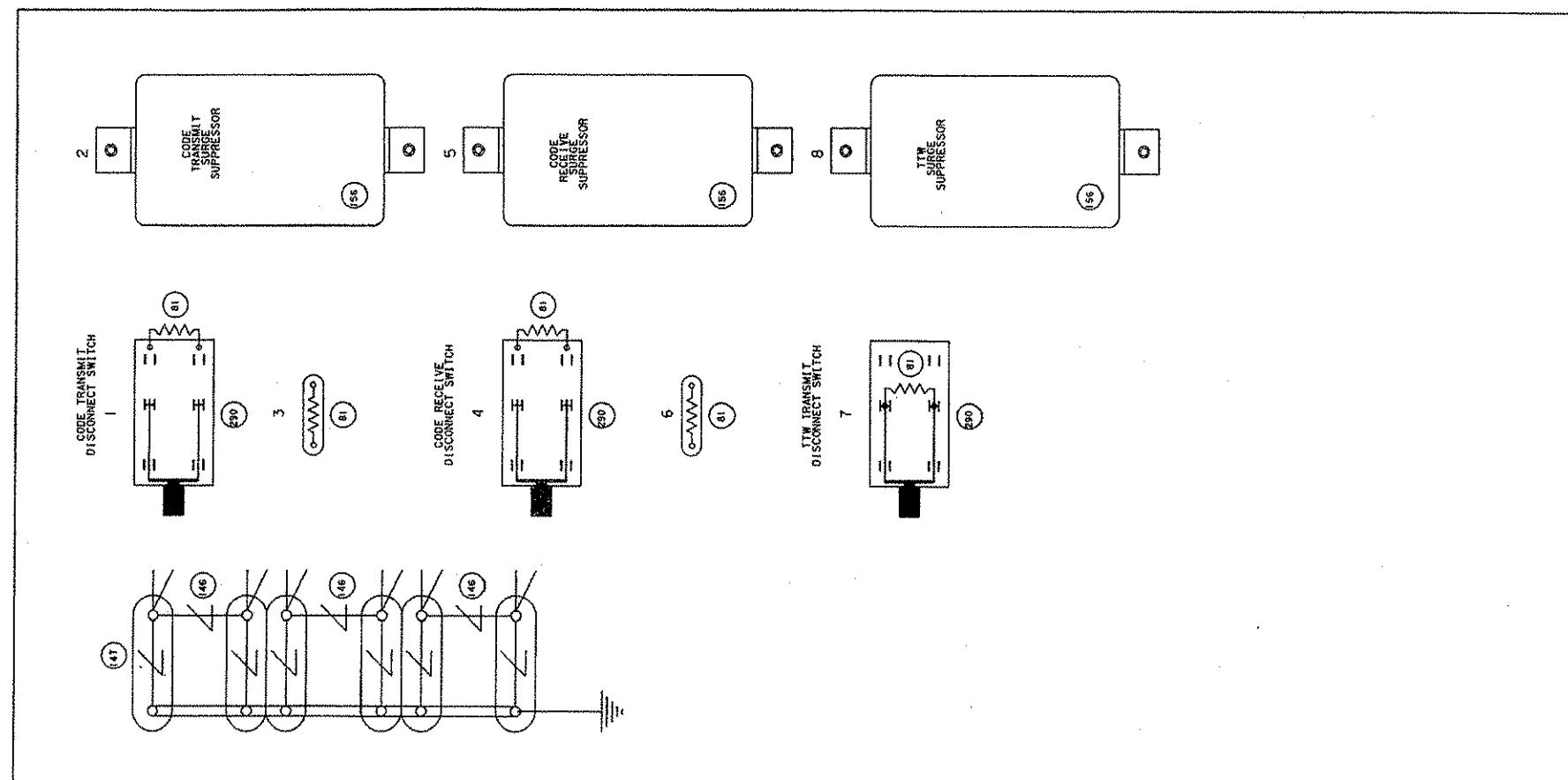


NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 518

INDICATION / CONTROL CABLES		WOOD STREET	
PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III		APPROVED	DATE
		SH 1022-W29	CONT'D ON 1022-W30
REVISIONS	4-9-85	REFERENCES	SCALEX. NO. 5.G. 804220 DATE 5-16-84
AS INSTALLED			DRAWN - RJR 6-28-84
BAR/SUB			TRACED
			CHECKED
			D TMJ 5-16-84
			K FOR WIRING
			UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218
			T1373



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NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. 520

RACK 1A CODE LINE EQUIPMENT LAYOUT		WOOD STREET
SCALE: NONE C.O. 804220 DATE DESIGNED-WFK 4-12-85 DRAWN WFK 4-12-85 TRACED CHECKED O X FOR WIRING		APPROVED DATE SH 1022-W31 1022-W32 CONTRACT NUMBER CY-111
UNION SWITCH & SIGNAL DIVISION AMERICAN STANDARD INC. SWISSEVALE, PA 15218		T1373

REVISONS

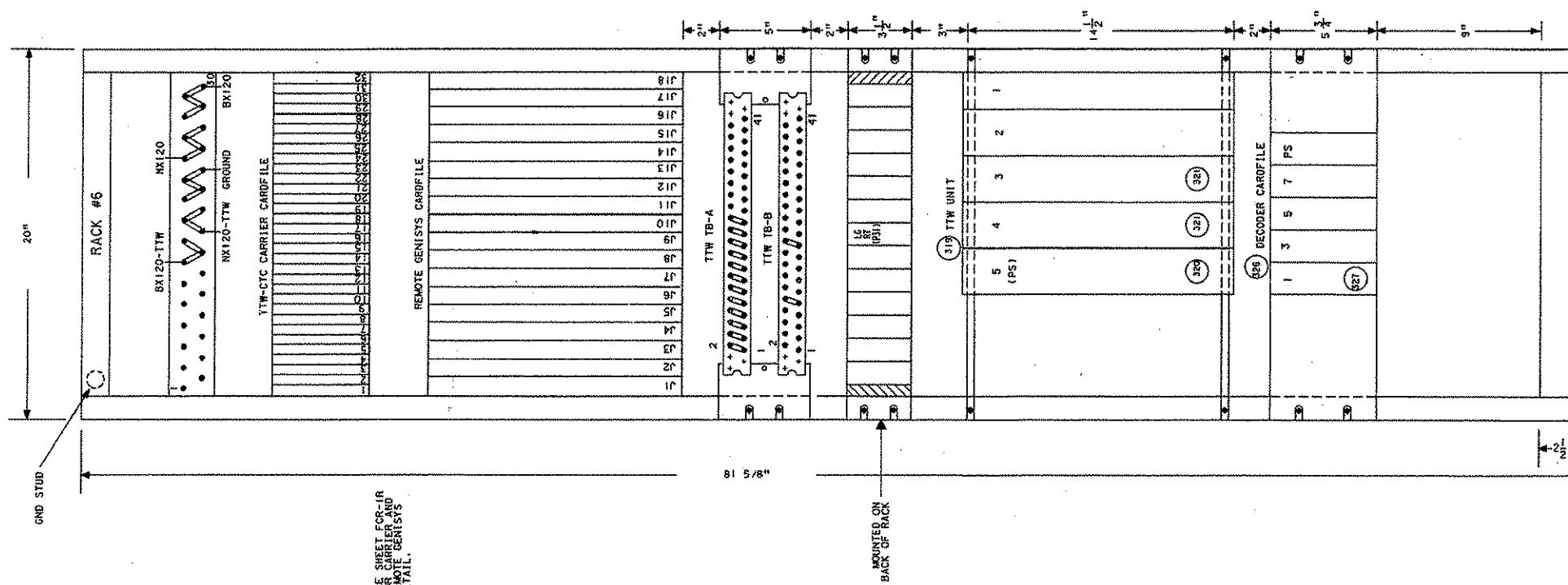
PRIOR TO BEING PLACED IN REGULAR SERVICE,
THE OPERATION OF ANY CIRCUITS AND EQUIPMENT
PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT
SELECTION (BREAKDOWN) AND SERVICE OPERATION
TESTS OF THE COMPLETE SYSTEM OR SECTION OF
SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.

REFERENCES

FOR WIRING

1 , 2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 , 45 , 46 , 47 , 48 , 49 , 50 , 51 , 52 , 53 , 54 , 55 , 56 , 57 , 58 , 59 , 60 , 61 , 62 , 63 , 64 , 65 , 66

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FRONT VIEW

TIW APPLICATION TO
REMOTE GENISYS RACK

NORTH SHORE CONNECTOR
CONTRACT NO. NSC-009
SHEET NO. **521**

RACK 6 REMOTE GENISYS RACK LAYOUT		WOOD ST.
PRIOR TO BEING PLACED IN REGULAR SERVICE, THE OPERATION OF ANY CIRCUITS AND EQUIPMENT PRESENTED HEREIN MUST BE CHECKED BY CIRCUIT SELECTION, BREAKDOWN AND SERVICE (OPERATION) TESTS OF THE COMPLETE SYSTEM OR SECTION OF SUCH A SYSTEM INTO WHICH THEY ARE CONNECTED.	REFERENCES	PORT AUTHORITY OF ALLEGHENY COUNTY STAGE I LIGHT RAIL TRANSIT SYSTEM CONTRACT NUMBER CY-III
		APPROVED S.J.B. 3-26-87 DATE DRAWN FG 3-26-87 DESIGNED SJB 3-26-87 TRACED CHECKED D X FOR WIRING
		SH 1022-W32 022-RNDX DATE ON TD ON WIRING INFORMATION-PART

**UNION SWITCH & SIGNAL DIVISION
AMERICAN STANDARD INC.
SWISSEALE, PA 15218**

T1373

REVISIONS