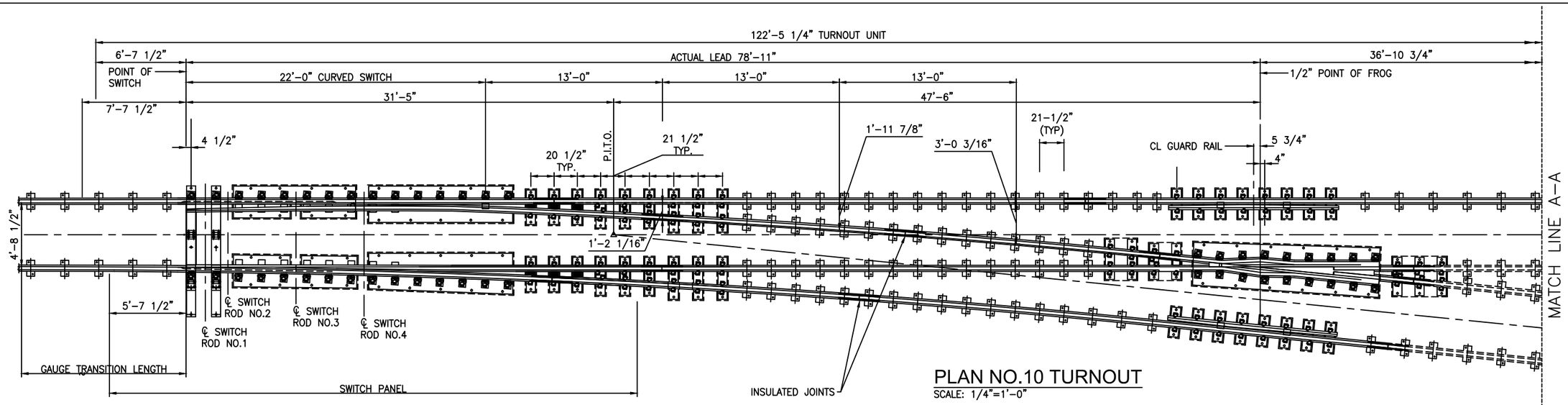
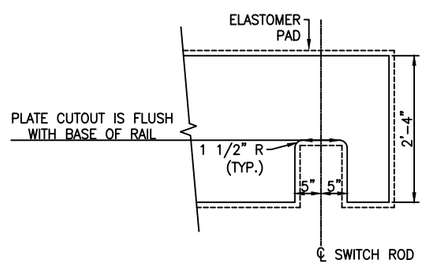


PLAN NO.10 TURNOUT

SCALE: 1/4"=1'-0"

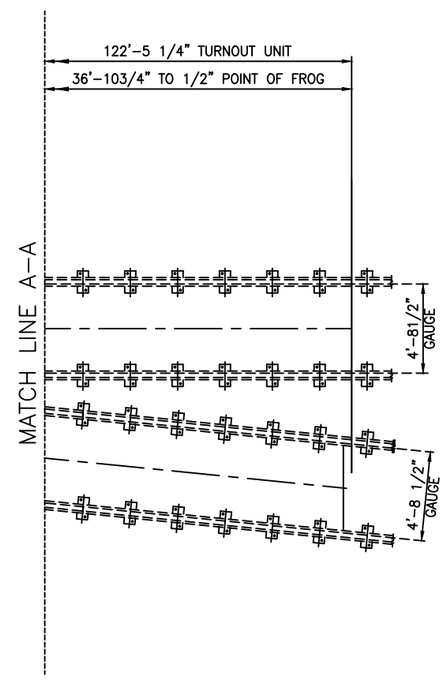
TURNOUT DATA			
FROG	NUMBER		10
	ANGLE		5°-43'-29"
	TOE LENGTH		7'-5"
	HEEL LENGTH		11'-4"
	TOTAL LENGTH		18'-9"
	TOE SPREAD		8 3/8"
	HEEL SPREAD		14 1/8"
SWITCH	LENGTH OF SWITCH		22'-0"
	HEEL SPREAD		6 3/4"
	HEEL ANGLE		2°-14'-12"
	CURVED POINT	THICKNESS AT POINT	0"
		ANGLE AT POINT	0°-41'-23"
		RADIUS	815.19'
		VERTEX DISTANCE	23/32"
	STRAIGHT POINT	THICKNESS AT POINT	0"
		ANGLE AT POINT	0°-41'-23"
		RADIUS	810.48'
		VERTEX DISTANCE	11/16"
ACTUAL LEAD			78'-11"
STRAIGHT CLOSURE RAIL LENGTH			36'-6"
CURVED CLOSURE RAIL LENGTH			36'-7 5/8"
TURNOUT CURVE	CENTER LINE RADIUS		812.84'
	DEGREE OF CURVE		7°-02'-56"
	CENTRAL ANGLE		3°-29'-17"
TANGENT ADJACENT TOE OF FROG			0

BILL OF MATERIAL	
QTY.	DESCRIPTION – FURNISHED THIS CONTRACT
1	NO. 10 PLATED SWITCH-DIRECT FIXATION TRACK, COMPLETE
1	NO. 10 PLATED FROG-DIRECT FIXATION TRACK, COMPLETE
2	12'-6" TEE RAIL DESIGN GUARD RAIL COMPLETE.
A.R.	STRAIGHT CLOSURE RAIL, STOCK RAIL AND TURNOUT RAIL
A.R.	CURVED CLOSURE RAIL, STOCK RAIL AND TURNOUT RAIL
A.R.	BONDED STANDARD RAIL JOINTS, COMPLETE
A.R.	BONDED INSULATED RAIL JOINTS, COMPLETE
A.R.	LEFT HAND PANDROL CLIPS e2056
A.R.	ELASTOMER PADS FOR EACH PLATE
A.R.	DIRECT FIXATION FASTENERS
A.R.	GROUT PADS



DETAIL - CUTOUT FOR PLATE

NOT TO SCALE



NOTES:

1. GAUGE WIDTH THROUGHOUT TURNOUT IS 4' 8 ½".
2. TURNOUT UNITS SHALL BE FULLY ASSEMBLED IN THE FACTORY FOR INSPECTION MAKE-UP RAIL SHALL BE USED DURING FACTORY ASSEMBLY TO ASSURE LOCATION AND ALIGNMENT OF PLATES USED TO FASTEN CWR.
3. ALL RAIL AND COMPONENTS SHALL CONFORM TO 115 RE RAIL SECTION.
4. RAIL SHALL BE HEAD HARDENED.
5. CLOSURE RAIL LENGTHS INDICATED ARE TOTAL LENGTHS AND DO NOT ALLOW FOR STANDARD OR INSULATED JOINTS.
6. RAIL JOINTS SHOWN IN RAIL LAYOUT DIAGRAM INTERNAL TO THE TURNOUT ARE REQUIRED. ALL OTHER JOINTS REQUIRED FOR PANELIZING THE SWITCH OR TO AID IN TRANSPORTING COMPONENTS SHALL BE LOCATED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL JOINT IN OPPOSITE RAILS SHALL HAVE A TWO PLATE STAGGER.
7. RAIL ENDS TO BE JOINTED TO CWR ARE UNDRILLED.
8. DO NOT DRILL FOR JOINTS ON STOCK RAILS AHEAD OF P.S.
9. RIGHT HAND TURNOUT IS SHOWN. LEFT HAND TURNOUT IS OPPOSITE HAND.
10. ALL RAILS WITHIN TURNOUT UNITS ARE CLAMPED TO THE PLATES BY LEFT HAND PANDROL SPRING CLIPS – E2056
11. RAIL AT JOINT BARS ARE FASTENED WITH LEFT HAND MODIFIED 'E' CLIPS TYPE 'J' OR 'C' CLIPS
12. DIMENSIONS SHOWN ON STOCK RAILS AHEAD OF POINT OF SWITCH ARE STANDARD. THE AUTHORITY WILL SPECIFY STOCK RAIL LENGTHS AHEAD OF POINT OF SWITCH WHERE OTHER THAN STANDARD LENGTHS ARE REQUIRED.
13. LOCATE SEPARATOR BLOCKS NOT MORE THAN 4'-0" ON CENTERS AND AS NECESSARY TO CLEAR JOINT BARS AND ANCHOR BOLTS.
14. GUARD RAILS ARE 132 RE RAIL SECTION HEAD HARDENED.
15. WIDTH AND LENGTH OF ELASTOMER PADS SHALL BE 2" LARGER THAN DIMENSIONS OF CORRESPONDING PLATES.

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE DISTRICT OF COLUMBIA."

LICENSE No. _____

EXPIRATION DATE: _____

- DC REGISTER SECTION 3413

DESIGNED _____ DATE

DRAWN _____ DATE

CHECKED Ravi Amin 12/15 DATE

REFERENCE DRAWINGS	
NUMBER	TITLE

REVISIONS		
DATE	NUM	DESCRIPTION
09/07	01	Revised Gauge Plates
01/15	02	Revised Title Block & Change DD to read ST

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES

CENI - TRACK STRUCTURES & FACILITIES

REVISION SUBMITTED _____ DATE

APPROVED THOMAS ROBINSON, DEPUTY CHIEF ENGINEER DATE

TRACKWORK STANDARD DRAWING
NO. 10 PLATED TURNOUT, PLAN, DIRECT FIXATION TRACK

CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
FQ-	AS SHOWN	ST-TW-049	## of .