ERIE COUNTY INDUSTRIAL DEVELOPMENT AGENCY BUFFALO SOUTHERN RAILROAD TRACK IMPROVEMENT PROJECT MP 2.74 TO MP 33.0

NYSDOT P.I.N. 5936.74.301 ERIE COUNTY



PROJECT LOCATION:

THE PROPOSED PROJECT IS LOCATED BETWEEN BUFFALO NY AND COWANDA NY IN ERIE COUNTY. IT BEGINS AT MP 2.74 IN BUFFALO NY AND CONTINUES TO MP 33.0 IN GOWANDA NY.

WORK DESCRIPTION

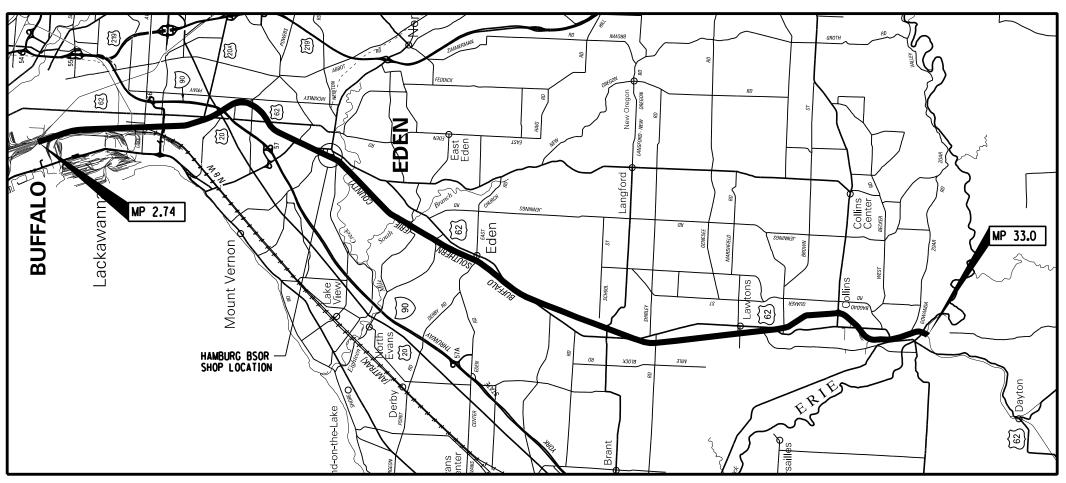
- TIE REPLACEMENT
- SURFACING
- TURNOUT POINT REPLACEMENT
- TURNOUT TIMBER REPLACEMENT
- · RAIL REPLACEMENT
- RAIL GREASER INSTALLATION

INDEX OF DRAWINGS

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PREPARED BY

ANTHONY SULLIVAN, P.E. DATE CHA, INC.
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PROJECT LOCATION

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BUFFALO SOUTHERN RAILROAD

AUGUST 2017

CHA

CHA PROJECT NO.: 32857

2200 Main Place Tower Buffalo, NY 14202-3722 716.847.6310 • www.chacompanies.com

GENERAL NOTES:

- ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE BUFFALO SOUTHERN RAILROAD SPECIFICATIONS FOR CONSTRUCTION, AND THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION (AREMA) MANUAL, 2015 EDITION.
- 2. A MINIMUM OF 15 DAYS PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH BUFFALO SOUTHERN RAILROAD. THE CONTRACTOR SHALL HAVE THE TRACK BACK IN SERVICE AT THE END OF EACH WORK PERIOD. NO SEPARATE PAYMENT WILL BE MADE FOR COORDINATION WITH BUFFALO SOUTHERN RAILROAD.
- 3. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE OF WORK ACTIVITIES TO THE ENGINEER AND BUFFALO SOUTHERN RAILROAD FOR REVIEW AND APPROVAL. IT IS ANTICIPATED THAT DISRUPTIONS TO RAIL TRAFFIC WILL BE MINIMIZED AND THAT THE WORK ASSOCIATED WITH THE PROJECT WILL BE COMPLETED WITHIN A TIMELY WORK PERIOD. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- THE CONTRACTOR SHALL PROTECT WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA, BUFFALO SOUTHERN RAILROAD ON-TRACK SAFETY AND FRA REGULATIONS.
- 5. THE CONTRACTOR SHALL EXERCISE CARE IN REMOVAL OPERATIONS SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF BUFFALO SOUTHERN RAILROAD, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE THE PROPERTY OF BUFFALO SOUTHERN, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- 6. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGES CAUSED BY OPERATIONS TO THE EXISTING CONDITIONS WHICH ARE NOT PART OF THE INTENDED WORK, ALL DAMAGES WHICH ARE NOT PART OF THE INTENDED WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO BUFFALO SOUTHERN RAILROAD TO THE SATISFACTION OF THE ENGINEER.
- 7. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER AVAILABLE INFORMATION. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES.
- 8. THE CONTRACTOR WILL BE REQUIRED TO PLACE SUFFICIENT EQUIPMENT, LABOR, ETC. ON THE PROJECT SO THAT THE WORK MAY PROGRESS IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SCHEDULE.
- 9. CONTRACTOR STAGING AREAS SHALL BE COORDINATED WITH BUFFALO SOUTHERN RAILROAD AND THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 10. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
- 11. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND PUBLIC PROPERTIES WHENEVER POSSIBLE OR AS DIRECTED BY THE ENGINEER.
- 12. THE CONTRACTOR SHALL REMOVE FROM BUFFALO SOUTHERN RAILROAD (BSOR) RIGHT-OF-WAY ALI RUBBISH AND WASTE FROM THE WORK AND DISPOSE OF IT AS DIRECTED BY THE ENGINEER. AFTER COMPLETING THE WORK, THE CONTRACTOR SHALL REMOVE FROM BSOR RIGHT-OF-WAY, AND FROM ALL PUBLIC AND PRIVATELY OWNED PROPERTY, AT THE CONTRACTOR'S EXPENSE; ALL TEMPORARY STRUCTURES AND WASTE RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- 13. WORK PERFORMED UNDER THIS PROJECT SHALL BE SUPERVISED AT ALL TIMES BY A CONTRACTOR SUPERINTENDENT AND A FOREMAN IN CHARGE OF FIELD OPERATIONS WHO ARE WELL EXPERIENCED IN TRACK CONSTRUCTION AND FULLY QUALIFIED TO DIRECT AND SUPERVISE THE INSTALLATION OF BALLASTED TRACK WORK IN ACCORDANCE WITH BUFFALO SOUTHERN RAILROAD STANDARDS.
- 14. ALL WORK SHALL BE COMPLETED WITHIN THE EXISTING RAIL RICHT-OF-WAY OR WITHIN EASEMENTS. THE CONTRACTOR DESIRES TO WORK OUTSIDE OF THE EXISTING RIGHT-OF-WAY OR EASEMENTS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE NECESSARY RIGHTS.
- 15. BSOR IS PERFORMING WORK CONCURRENTLY DURING PROJECT CONSTRUCTION. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE FIELD WORK WITH BSOR AND SCHEDULE WORK ACTIVITIES WITH BSOR.

TRACK WORK:

- 16. THE CONTRACTOR SHALL NOTE THE CONDITION OF THE EXISTING TRACK AND TAKE GREAT CARE WHEN PERFORMING ITEM 75675,9000 RAISE, ALION AND SURFACE TRACK, TIE PLATES SHALL BEAR FIRMLY AGAINST THE RAIL BASE UPON COMPLETION. ANY TIE PLATE NOT BEARING FIRMLY AGAINST THE RAIL BASE (DOWN TIES) SHALL HAVE THE CAUSE CORRECTIED, THE COST OF CORRECTING DOWN TIES SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 75675.9000 RAISE, ALIGN AND SURFACE TRACK.
- 17. TRACK SURFACING AND BALLAST REGULATING IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COORDINATED WITH BUFFALO SOUTHERN RAILROAD PRIOR TO COMMENCING WORK.
- 18. BALLAST MATERIAL SUPPLIED SHALL BE APPROVED BY THE ENGINEER PRIOR TO BEING USED ON THE PROJECT.
 BALLAST SURFACING COURSE IS TO BE PAID UNDER ITEM 75675.1500. THE ENGINEER RESERVES THE RIGHT TO SAMPLE AND TEST THE STONE BALLAST UP TO AND INCLUDING THE POINT OF USE.
- 19. THE CONTRACTOR SHALL REMOVE, INSTALL AND DISPOSE OF EXISTING WOOD CROSS TIES AS IDENTIFIED IN THE FIELD OR AS DIRECTED BY THE ENGINEER. THE WOOD CROSS TIES SHALL BE INSTALLED WITH A 19½" TIE SPACING AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE REPLACEMENT OF WOOD CROSS TIES, INCLUDING FURNISHING OF TRACK SPIKES, SHALL BE PAID FOR UNDER ITEM 75675.3000 REMOVE, FURNISH AND INSTALL WOOD CROSS TIES (6" X 8" X 8'-6" TIES OR 7" X 9" X 8'-6" TIES).
- 20. DURING THE TIE AND SURFACING OPERATION, THE CONTRACTOR SHALL INSTALL TIE PLATES AT EVERY LOCATION A TIE PLATE IS MISSING, CRACKED, BROKEN OR AS DIRECTED BY THE ENGINEER. TIE PLATES SHALL BE MINIMUM 13"L × 7¾" WITH NEW OR FIT DOUBLE SHOULDERED TO FIT THE BASE OF THE RAIL ON WHICH THEY WILL BE USED. EACH TIE PLATE SHALL HAVE 8 HOLES PUNCHED FOR THE USE OF 7½" TRACK SPIKES. INSTALLATION OF TIE PLATES WILL BE PAID UNDER ITEM 75675.5000 FURNISH AND INSTALL TIE PLATES.
- 21. ALL THERMITE FIELD WELD JOINTS SHALL BE CROPPED AND WELDED IN ACCORDANCE WITH THE LATEST REVISION OF AREMA WELDED JOINTS SHALL BE GROUND TO CONFORM TO THE SHAPE OF THE RAIL ON GAUGE AND FIELD SIDES. ALL WELDS WILL BE CONSIDERED INCIDENTAL TO ITEM 75675.2150 FURNISH AND INSTALL THERMITE FIELD WELD).
- 22. ALL SCRAP STEEL SHALL BE DELIVERED TO BSOR AT A LOCATION DESIGNATED BY THE ENGINEER.
- 23. THE CONTRACTOR SHALL RAISE, ALIGN AND SURFACE THE TRACK PER ITEM 75675.9000 RAISE, ALIGN AND SURFACE TRACK AND THE EXISTING TURNOUTS PER ITEM 75675.9210 RAISE, ALIGN AND SURFACE TURNOUT. SURFACE TO FINAL GRADE. MULTIPLE PASSES SHALL BE CONSIDERED INCIDENTAL TO ITEM 75675.9000 RAISE, ALIGN AND SURFACE TRACK AND ITEM 75675.9210 RAISE, ALIGN AND SURFACE TURNOUT. ADDITIONAL QUANTITY OF ITEM 75675.9000 RAISE, ALIGN AND SURFACE TRACK HAS BEEN INCLUDED IN THE PROJECT TO ACCOUNT FOR MINIMUM RUNOFF ON THE SIDINGS TO RAISE THE TRACK TO PROPER ELEVATION AFTER THE TURNOUTS HAVE BEEN SURFACED. RUNOFF ON THE SIDINGS HAS BEEN ESTIMATED AT 100 FEET OR SHALL BE PERFORMED AS DIRECTED BY THE ENCLUSED AND RUNDED TEM-75675.9000 RAISE ALIGN AND SURFACE TRACK. ENGINEER AND PAID FOR UNDER ITEM 75675,9000 RAISE. ALIGN AND SURFACE TRACK.
- 24. THE CONTRACTOR SHALL INSTALL NEW NUTS, BOLTS AND SPRING WASHERS IN THE RAILROAD TRACK CONNECTIONS AT ALL LOCATIONS THAT THEY ARE DEEMED DEFECTIVE AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE INSTALLATION OF NEW NUTS, BOLTS OR SPRING WASHERS SHALL BE PAID FOR UNDER ITEM 75675.5200 FURNISH AND INSTALL BOLTS SETS.
- 25. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE JOINT BAR OR AS DIRECTED BY THE ENGINEER. ALL WORK ASSOCIATED WITH THE INSTALLATION OF JOINT BARS SHALL BE PAID FOR UNDER ITEM 75675.5400 FURNISH AND
- ALL TIES REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND PROPERLY DISPOSED WITH THE EXCEPTION OF LONG TIMBERS REMOVED AS PART OF TURNOUT WORK.
- 27. WORK FOR ITEM 75675.9214 REMOVING EXISTING, FURNISH AND INSTALL SWITCH POINT & STOCK RAIL WILL NOT BE . WORK FOR ITEM 156/5.9214 - REMOVING EXISTING, FURNISH AND INISTALL SWITCH POINT & STOCK MAIL WILL NOT BE ACCEPTED IF THE NEW MAINLINE RAIL CLIPS LOCATION FROM THE POINT OF EACH SWITCH POINT DOES NOT MATCH AND IF THEY DO NOT PROPERLY FIT THE EXISTING SWITCH ROD, CONTRACTOR MUST CONFIRM THAT THE LOCATION OF THE CLIPS FOR THE NEW SAMPSON SWITCH POINT ARE THE SAME DISTANCE FROM THE POINT OF SWITCH AS THE RAIL CLIPS THAT WILL REMAIN FOR THE SIDING SO THAT ALL SWITCH RODS ARE LOCATED BETWEEN THE EXISTING SWITCH TIES SO THAT THE RODS AND CLIPS DO NOT BIND ON ANY SWITCH TIE. DAPING OF SWITCH TIES IS NOT PERMITTED. ANY EXISTING SHIMS OR WASHERS THAT ARE USED AS SPACERS ON THE SIDING CLIP WILL BE REMOVED BEFORE FINAL AND USED OF THE SUBJECT OF THE SUBJEC ADJUSTMENT OF BOTH SWITCH POINTS.
- 28. ALL NEW TIES WITHIN CWR SECTION SHALL HAVE ANCHORS.
- 29. ALL ANCHORS FURNISHED AND INSTALLED SHALL BE WRENCH TYPE ANCHORS.





BUFFALO SOUTHERN RAILROAD



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SURVEYOR TO ALTER AN ITEM IN ANY MAY. IF AN ITEM BEARING THE
STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING
ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND
SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE
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DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION
OF THE ALTERATION.

No.	Submittal / Revision	Appd.	Date

NYSDOT PIN 5936.74.301 ECIDA, BSOR TRACK IMPROVEMENT PROJECT

> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

PROJECT NOTES

Designed By:	Project No.:
AJS	32857
Drawn By:	Scale:
CAK	NONE
Checked By:	Plot Date:
MJ	8/7/2017

GN-1

TRACK NAME	FROM MP	TO MP	ITEM 75675.3000 FURNISH AND INSTALL WOOD CROSS TIES (6"X7"X8'-6")	ITEM 75675.3001 FURNISH AND INSTALI WOOD CROSS TIES (7"X9"X8'-6")
MAIN	2.7	3.0	-	125
MAIN	XING	- 2.73		8
MAIN	3.0	4.0	-	100
MAIN		- 3.70		16
MAIN	4.0	5.0	-	100
MAIN	5.0	6.0	-	100
MAIN	6.0	6.4	-	75
MAIN	7.0	7.0 8.0	50 80	-
MAIN	8.0	9.0	80	-
MAIN	9.0	10.0	100	-
MAIN	10.0	11.0	100	-
MAIN	11.0	12.0	100	-
MAIN	12.0	13.0	100	-
MAIN	13.0	14.0	100	-
MAIN	XING -	13.14		8
MAIN	XING -	13.20		10
MAIN	XING -	13.75		16
MAIN	14.0	15.0	700	-
MAIN	15.0	16.0	700	-
MAIN	16.0	17.0	600	-
MAIN	17.0	18.0	350	-
MAIN		17.66	75.0	16
MAIN	18.0	19.0	350 350	-
MAIN	20.0	21.0	350	-
MAIN	21.0	22.0	350	-
MAIN	22.0	23.0	350	-
MAIN	23.0	24.0	350	-
MAIN	24.0	25.0	350	-
MAIN	25.0	26.0	250	-
MAIN	26.0	27.0	300	-
MAIN	27.0	28.0	500	-
MAIN	28.0	29.0	270	-
MAIN	29.0	30.0	300	-
MAIN	30.0	31.0	200	-
MAIN	31.0	32.0	200	-
MAIN	32.0	33.0	200	-
SIDING	17.7	17.9 19.7	50 70	-
SIDING	18.8	23.0	50	-
SIDIMO	TOTAL	23.0	7900	574



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NYSDOT PIN 5936.74.301 ECIDA, BSOR TRACK IMPROVEMENT **PROJECT**

> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

> > **QUANTITY** SHEET

Designed By: AJS	Project No.: 32857	
Drawn By: CAK	Scale: NONE	
Checked By: MJ	Plot Date: 8/7/2017	

TYPICAL SECTION - TIE & SURFACING

NOTES:

ITEM 75675.1500 - FURNISH -AND PLACE BALLAST (SURFACING COURSE)

ITEM 75675,3000 - REMOVE, FURNISH — AND INSTALL WOOD CROSS TIES 6"x8"x8'-6" (SEE NOTE 1)

1. MP 2.7 TO MP 6.4 ITEM 75675.3001 - REMOVE, FURNISH AND INSTALL WOOD CROSS TIES 7"x9"x8'-6"

2. CP DRAW (MP 2.7±) TIE PLATES SHALL BE 18"x8", DOUBLE SHOULDER

-ITEM 75675.5400 - FURNISH AND INSTALL JOINT BARS

-2" (MIN) ITEM 75675.9000 - RAISE. ALIGN AND SURFACE TRACK





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> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

TYPICAL SECTION

Designed By: AJS	Project No.: 32857	
Drawn By: CAK	Scale: NONE	
Checked By: MJ	Plot Date: 8/7/2017	

TS-1

- FROM MP 2.70 TO MP 33.00, THE ITEMS LISTED BELOW SHALL BE AS NEEDED AND DIRECTED BY THE ENGINEER, SHEET TABLES NOT INCLUDED FOR THESE ITEMS. SEE SHEET Q-1 FOR QUANTITIES.
 - ITEM 75675.3000 REMOVE, FURNISH AND INSTALL WOOD CROSS TIES 6"x8"x8'-6"
 (AS MARKED IN THE FIELD). SEE TIE SIZE EXCEPTING THIS
 SHEET MP 2.70 TO MP 6.40.
 - ITEM 75675.5000 FURNISH AND INSTALL TIE PLATES
 - ITEM 75675.5100 FURNISH AND INSTALL RAIL ANCHORS
 - ITEM 75675.5200 FURNISH AND INSTALL BOLT SETS • ITEM 75675.9300 - GAGING TRACK
- 2. PROVIDE FINAL 1/2" SUPERELEVATION FOR CURVE AT CP DRAW.
- 3. CP DRAW MP 2.70 TO MP 2.91:
- TIE PLATES SHALL BE 18"x8" DOUBLE SHOULDER
- EVERY TIE SHALL HAVE UNIT SPRING ANCHORS
- USE NORFOLK SOUTHERN ANCHOR PATTERN
- 4. ITEM 75675.9214 REMOVE EXISTING, FURNISH AND INSTALL SWITCH POINT AND STOCK RAIL. CONTRACTOR TO ENSURE THAT SWITCH RODS AND POINT CLIPS WILL CONNECT PROPERLY TO EXISTING SIDING SWITCH POINTS. FIT SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE FOR PAYMENT.
- 5. SEE SHEET MT-1 FOR GRADE CROSSING WORK.

JOINTS NEAR CP DRAW	QTY
75675,5600 FURNISH AND INSTALL COMPROMISE JOINT ASSEMBLY	2
75675.5810 FURNISH AND INSTALL NON-BONDED INSULATED JOINT ASSEMBLY	2

	TURNOUTS														
ADDDOVINATE				ITEM 7	75675.3	191 -	REMOVE,	FURNIS	SH, AND	INSTALI	_ TURNOUT TIMBER	RAISE, ALIGN, AND	REMOVE EXISTING, FURNISH	REMOVE EXISTING,	DEMOVE TURNOUT
APPROXIMATE MILE POST	DESCRIPTION	HEADBLOCKS	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	TOTAL LINEAR FEET (INCLUDES HEADBLOCKS)	SURFACE NO. 10 TURNOUT ITEM NO. 75675.9210	AND INSTALL SWITCH POINT AND STOCK RAIL ITEM NO. 75675.9214	FURNISH AND INSTALL NO. 10 FROG ITEM NO. 75675.9224	REMOVE TURNOUT ITEM NO. 75675.0102
2.91	NORTH END ERIE		0	1	1	0	0	1	1	3	98	1	1	1	-
2.93	NORTH END DELIVERY	2×15	3	0	2	0	2	3	3	1	178	1	1	-	-
3.18	MAIN LINE CROSSOVER	2×15	0	0	0	1	0	1	2	0	56	1	-	-	-
3.51	SOUTH END DELIVERY	2×15	2	2	1	0	0	1	4	3	171	1	1	-	-
3.52	SOUTH END ERIE	2×15	0	2	0	0	0	0	3	0	65	1	1	-	-
3.62	BSOR/NS TIFFT CON	2×15	0	1	1	0	0	0	3	1	82	1	-	-	-
6.41	BSOR/NS BLASDELL CON		0	0	0	0	0	0	0	0	0	1	-	-	-
6.45	NORTH END SIDING		0	0	0	0	0	5	0	0	70	1	-	-	-
6.82	SOUTH END SIDING		0	0	0	0	0	0	0	0	0	1	-	-	-

NOTE: HEAD BLOCK TIES ARE INCLUDED IN THE TURNOUT TIE COUNT TOTALS FOR THE LENGTH OF TIE.

2200 Main Place Tower Buffalo, NY 14202-3722



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TRACK LAYOUT

Designed By:	Project No.:
AJS	32857
Drawn By:	Scale:
CAK	NONE
Checked By:	Plot Date:
MJ	8/7/2017

TL-1

- FROM MP 2.70 TO MP 33.00, THE ITEMS LISTED BELOW SHALL BE AS NEEDED AND DIRECTED BY THE ENGINEER. SHEET TABLES NOT INCLUDED FOR THESE ITEMS. SEE
- ITEM 75675.3000 REMOVE, FURNISH AND INSTALL WOOD CROSS TIES 6"x8"x8'-6"
- (AS MARKED IN THE FIELD).

 ITEM 75675.5000 FURNISH AND INSTALL TIE PLATES

 ITEM 75675.5100 FURNISH AND INSTALL RAIL ANCHORS
- ITEM 75675.5200 FURNISH AND INSTALL BOLT SETS
- ITEM 75675.9300 GAGING TRACK
- 2. PROVIDE FINAL 1/2" SUPERELEVATION FOR CURVE AT CP DRAW.
- 3. CP DRAW MP 2.70 TO MP 2.91:
- TIE PLATES SHALL BE 18"x8" DOUBLE SHOULDER
- EVERY TIE SHALL HAVE UNIT SPRING ANCHORS
- 4. ITEM 75675.9214 REMOVE EXISTING, FURNISH AND INSTALL SWITCH POINT AND STOCK RAIL. CONTRACTOR TO ENSURE THAT SWITCH RODS AND POINT CLIPS WILL CONNECT PROPERLY TO EXISTING SIDING SWITCH POINTS. FIT SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE FOR PAYMENT.
- 5. SEE SHEET MT-1 FOR GRADE CROSSING WORK.





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TRACK LAYOUT

Designed By:	Project No.:
AJS	32857
Drawn By:	Scale:
CAK	NONE
Checked By:	Plot Date:
MJ	8/7/2017

TL-2 SHEET 6

	TURNOUTS														
ADDDOVIMATE	DESCRIPTION			ITEM 7	'5675 . 3	191 - R	EMOVE,	FURNIS	H, AND	INSTALL	TURNOUT TIMBER	RAISE, ALIGN, AND	REMOVE EXISTING, FURNISH	REMOVE EXISTING,	DEMOVE TURNOUT
APPROXIMATE MILE POST		HE ADBLOCKS	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	TOTAL LINEAR FEET (INCLUDES HEADBLOCKS)	SURFACE NO. 10 TURNOUT ITEM NO. 75675.9210	AND INSTALL SWITCH POINT AND STOCK RAIL ITEM NO. 75675.9214	FURNISH AND INSTALL NO. 10 FROG ITEM NO. 75675.9224	REMOVE TURNOUT ITEM NO. 75675.0102
12.39	MOW (SPRING FROG)	1×16	1	0	2	1	3	1	2	2	158	1	-	1	-
12.50	SHOP	2×16	1	2	1	1	1	0	1	4	144	1	-	-	-
12.59	BRENNER SWITCH		0	0	0	0	0	0	0	0	0	1	-	-	-
13.02	NORTH END A1		4	3	2	0	3	1	3	1	202	1	-	-	-
13.03	NORTH END PASSING	2×15	3	1	2	1	2	1	3	0	156	1	-	-	-
13.16	SOUTH END A1		2	2	1	1	2	1	1	1	132	1	-	-	-
13.19	MAIN LINE CROSSOVER	1×16	4	4	2	2	1	2	3	1	224	1	-	-	-
13.38	DRAUGHTS WNYHS		3	1	2	1	1	0	3	4	193	1	-	-	-
13.69	SOUTH END PASSING		2	1	2	1	0	0	1	5	157	1	-	-	-
17.69	NORTH LP		6	7	5	5	4	4	3	4	456	1	0	-	-
17.90	SOUTH LP		4	7	3	4	4	5	4	5	449	1	-	-	-

NOTE: HEAD BLOCK TIES ARE INCLUDED IN THE TURNOUT TIE COUNT TOTALS FOR THE LENGTH OF TIE.





BUFFALO SOUTHERN RAILROAD



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No.	Submittal / Revision	Appd.	Date

NYSDOT PIN 5936.74.301 ECIDA, BSOR TRACK IMPROVEMENT PROJECT

> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

TRACK LAYOUT

Designed By: AJS	Project No.: 32857
Drawn By: CAK	Scale: NONE
Checked By: MJ	Plot Date: 8/7/2017

TL-3

Drawing No.:

FILE NAME : V.AProjects\ANY\K4\32857\CADD_MSTN\32857_tc.dgn DATE/TIME : 8/7/2017 USER : 1459

											TURNOUTS				
ADDDOVIMATE				ITEM	75675.31	191 - R	EMOVE,	FURNISH	I, AND	INSTALL	TURNOUT TIMBER	RAISE, ALIGN, AND	REMOVE EXISTING, FURNISH	REMOVE EXISTING,	DEMOVE TURNOUT
APPROXIMATE MILE POST	DESCRIPTION	HEADBLOCKS	9 ft	10 ft	11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	TOTAL LINEAR FEET (INCLUDES HEADBLOCKS)	SURFACE NO. 10 TURNOUT ITEM NO. 75675.9210	AND INSTALL SWITCH POINT AND STOCK RAIL ITEM NO. 75675.9214	FURNISH AND INSTALL NO. 10 FROG ITEM NO. 75675.9224	REMOVE TURNOUT ITEM NO. 75675.0102
18.77	EDEN DEPOT		8	3	2	2	2	3	2	5	326	1	-	-	-
18.89	LAING 100 RA		11	13	13	7	6	5	3	2	681	1			
19.73	NEW JEW		5	4	3	1	4	1	3	6	337	1	-	-	-
22.52	SHAFFSTALL		0	0	0	0	0	0	0	0	0	0	-	-	1
22.66	GUI'S SWITCH		6	5	5	3	3	3	3	4	385	1	-	-	-
22.82	NORTH PASSING		0	0	0	0	0	0	0	0	0	1	-	-	-
23.00	SOUTH PASSING		0	0	0	0	0	0	0	0	0	1	-	-	-
24.41	NIAGARA ENERGY		0	0	0	0	0	0	0	0	0	1	-	-	-
24.44	LP NORTH COLLINS	1×15	7	4	5	3	2	2	3	3	341	1	-	-	-

WG TL-1 FOR 1, 4 & 5.



BUFFALO SOUTHERN RAILROAD



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No.	Submittal / Revision	Appd.	Date

NYSDOT PIN 5936.74.301 ECIDA, BSOR TRACK IMPROVEMENT PROJECT

> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

TRACK LAYOUT

Designed By: AJS	Project No.: 32857
Drawn By: CAK	Scale: NONE
Checked By: MJ	Plot Date: 8/7/2017

TL-4

Drawing No.:

FILE NAME = V:\Projects\ANY\K4\32857\CADD_MSTN\32857_tc.dgn DATE/TIME = 8/7/2017 USER = 1459

NOTE: HEAD BLOCK TIES ARE INCLUDED IN THE TURNOUT TIE COUNT TOTALS FOR THE LENGTH OF TIE.

1. FROM MP 2.70 TO MP 33.00, THE ITEMS LISTED BELOW SHALL BE AS NEEDED AND DIRECTED BY THE ENGINEER. SHEET TABLES NOT INCLUDED FOR THESE ITEMS. SEE

● ITEM 75675.3000 - REMOVE, FURNISH AND INSTALL WOOD CROSS TIES 6"x8"x8'-6"
(AS MARKED IN THE FIELD).

● ITEM 75675.5000 - FURNISH AND INSTALL TIE PLATES

■ ITEM 75675.5100 - FURNISH AND INSTALL RAIL ANCHORS

• ITEM 75675,5200 - FURNISH AND INSTALL BOLT SETS

• ITEM 75675.9300 - GAGING TRACK

ITEM 75675.9214 - REMOVE EXISTING, FURNISH AND INSTALL SWITCH POINT AND STOCK RAIL. CONTRACTOR TO ENSURE THAT SWITCH RODS AND POINT CLIPS WILL CONNECT PROPERLY TO EXISTING SIDING SWITCH POINTS. FIT SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE FOR PAYMENT.

3. SEE SHEET MT-1 FOR GRADE CROSSING WORK.





BUFFALO SOUTHERN RAILROAD



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No.	Submittal / Revision	Appd.	Date

NYSDOT PIN 5936.74.301 ECIDA, BSOR TRACK IMPROVEMENT **PROJECT**

> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

TRACK LAYOUT

esigned By: AJS	Project No.: 32857	Drawing No.:
Drawn By: CAK	Scale: NONE	TL-5
Checked By: MJ	Plot Date: 8/7/2017	SHEET 9

	TURNOUTS														
ADDDOVIMATE	DESCRIPTION			ITEM	75675.3	191 - F	REMOVE,	FURNIS	SH, AND	INSTALL	. TURNOUT TIMBER	RAISE, ALIGN, AND	REMOVE EXISTING, FURNISH	REMOVE EXISTING,	DEMOVE TURNOUT
APPROXIMATE MILE POST		HEADBLOCKS	9 ft	10 ft	11 ft	12 ft	13 ft	14 f	15 ft	16 ft	TOTAL LINEAR FEET (INCLUDES HEADBLOCKS)	SURFACE NO. 10 TURNOUT ITEM NO. 75675.9210	AND INSTALL SWITCH POINT AND STOCK RAIL ITEM NO. 75675.9214	FURNISH AND INSTALL NO. 10 FROG ITEM NO. 75675.9224	REMOVE TURNOUT ITEM NO. 75675.0102
27.01 LAWTONS 2×16 9 4 3 4 2 1 6 8 460 1 -													-	-	
NOTE: HEAD	NOTE: HEAD BLOCK TIES ARE INCLUDED IN THE TURNOUT TIE COUNT TOTALS FOR THE LENGTH OF TIE.														

	TURNOUTS														
ADDDOVIMATE				ITEM	75675.3	191 - R	EMOVE,	FURNISI	H, AND	INSTALL	TURNOUT TIMBER	RAISE, ALIGN, AND	REMOVE EXISTING, FURNISH		
APPROXIMATE MILE POST	DESCRIPTION	HEADBLOCKS	9 ft	10 f	† 11 ft	12 ft	13 ft	14 ft	15 ft	16 ft	TOTAL LINEAR FEET (INCLUDES HEADBLOCKS)	SURFACE NO. 10 TURNOUT ITEM NO. 75675.9210	AND INSTALL SWITCH POINT AND STOCK RAIL ITEM NO. 75675.9214	FURNISH AND INSTALL NO. 10 FROG ITEM NO. 75675.9224	REMOVE TURNOUT ITEM NO. 75675.0102
30.31	COLLINS SIDING		0	0	0	0	0	0	0	0	0	0	-	-	1
30.83	NORTH END Y		5	5	9	5	2	4	3	5	461	1	-	-	-
31.03	SOUTH END OF Y		0	0	0	0	0	0	0	0	0	0	-	-	1
NOTE: HEAD	NOTE: HEAD BLOCK TIES ARE INCLUDED IN THE TURNOUT TIE COUNT TOTALS FOR THE LENGTH OF TIE.														

FROM MP 2.70 TO MP 33.00, THE ITEMS LISTED BELOW SHALL BE AS NEEDED AND DIRECTED BY THE ENGINEER. SHEET TABLES NOT INCLUDED FOR THESE ITEMS. SEE

• ITEM 75675.3000 - REMOVE, FURNISH AND INSTALL WOOD CROSS TIES 6"x8"x8'-6"

(AS MARKED IN THE FIELD).

ITEM 75675.5000 - FURNISH AND INSTALL TIE PLATES

ITEM 75675.5100 - FURNISH AND INSTALL RAIL ANCHORS

• ITEM 75675,5200 - FURNISH AND INSTALL BOLT SETS

• ITEM 75675.9300 - GAGING TRACK

2. ITEM 75675.9214 - REMOVE EXISTING, FURNISH AND INSTALL SWITCH POINT AND STOCK RAIL. CONTRACTOR TO ENSURE THAT SWITCH RODS AND POINT CLIPS WILL CONNECT PROPERLY TO EXISTING SIDING SWITCH POINTS. FIT SHALL BE APPROVED BY THE ENGINEER PRIOR TO ACCEPTANCE FOR PAYMENT.

3. SEE SHEET MT-1 FOR GRADE CROSSING WORK.



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> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

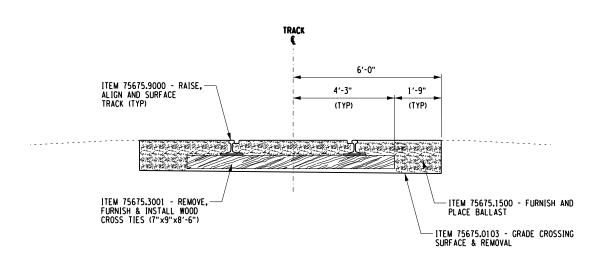
TRACK LAYOUT

1	Designed By: AJS	Project No.: 32857
	Drawn By: CAK	Scale: NONE
	Checked By: MJ	Plot Date: 8/7/2017

TL-6 SHEET 10

	AT-	GRADE CROS	SING TAE	BLE	
MILE POST	NAME	DOT NO.	TYPE	EXISTING SURFACE	GRADE CROSSING SURFACE REMOVAL ITEM NO. 75675.0103 (TF)
2.73	Rail ³ oad C ³ ossing	935564T	PRIVATE	GRAVEL	12
3.70	Rail ³ oad C ³ ossing	935564T	PRIVATE	GRAVEL	24
6.50	Rail ³ oad C ³ ossing	265594J	PRIVATE	GRAVEL	12
	Rail ³ oad C ³ ossing				12
6.84	<u>.</u>	265594J	PRIVATE	GRAVEL	12
7.08	LAKE AVE	265593C	PUBLIC	ASPHAL T	
8.87	BIG TREE RD	2655900	PUBLIC	ASPHAL T	-
9.55	PRIVATE ROAD	265586S	PRIVATE	GRAVEL	12
10.31	BAYVIEW RD	265585K	PUBLIC	ASPHAL T	-
10.46	SOWLES RD	265584D	PUBL IC	CONCRETE	-
10.83	FAIRGROUNDS RD	265583W	PUBLIC	ASPHAL T	-
11.11	SOUTH PARK AVE RT 62	265582P	PUBL IC	CONCRETE	-
12.76	CHURCH ST	265580B	PUBL IC	ASPHAL T	-
13.01	PLEASANT AVE	2655796	PUBL IC	CONCRETE	-
13.14	PRIVATE ROAD (MAIN AND 2 SIDINGS)	265578A	PRIVATE	GRAVEL	36
13.20	PRIVATE ROAD (MAIN AND 1 SIDING)	2655777	PRIVATE	GRAVEL	30
13.45	EVANS ST	265576L	PUBL IC	CONCRE TE	-
13.75	PRIVATE ROAD (MAIN AND 1 SIDING)	265574X	PRIVATE	ASPHAL T	48
13.87	STEVENS RD	265573R	PUBLIC	ASPHAL T	-
14.08	SOUTH CREEK RD	265572J	PUBLIC	ASPHAL T	-
14.20	PRIVATE ROAD	265571C	PRIVATE	GRAVEL	12
15.14	HICKOX RD	265570V	PUBLIC	ASPHAL T	-
15.80	PRIVATE ROAD	265569B	PRIVATE	GRAVEL	12
16.19	BELKNAP RD	265568U	PUBL IC	ASPHAL T	-
16.37	BLEY RD	265567M	PUBLIC	ASPHAL T	-
16.89	PRIVATE ROAD	935563L	PRIVATE	GRAVEL	12
17.30	SHADAGEE RD	265566F	PUBL IC	CONCRETE	-
17.45	PRIVATE ROAD	265565Y	PRIVATE	GRAVEL	12
17.66	PRIVATE ROAD (MAIN AND 1 SIDING)	265564S	PRIVATE	GRAVEL	50
18.08	PRIVATE ROAD	265563K	PRIVATE	GRAVEL	16
18.38	SNOWMOBILE CROSSING	971773U	PRIVATE	RUBBER	
18.65	W. CHURCH ST	265562D	PUBLIC	RUBBER	-
	ERIE ST				
18.68		265561W	PUBLIC	ASPHAL T	-
18.87	HEMLOCK ST PRIVATE ROAD	265560P 971175H	PUBLIC PRIVATE	ASPHAL T GRAVEL	24
	(MAIN AND 1 SIDING)		DUD: 10	ACDUM T	
19.75	NEW JERUSALEM RD	265548H	PUBLIC	ASPHAL T	-
20.01	PRIVATE ROAD	265547B	PRIVATE	GRAVEL	12
20.45	PRIVATE ROAD	265545M	PRIVATE	GRAVEL	12
20.57	PRIVATE ROAD	265544F	PRIVATE	GRAVEL	12
20.60	PRIVATE ROAD	265543Y	PRIVATE	GRAVEL	12
20.65	PRIVATE ROAD	2655425	PRIVATE	GRAVEL	12
20.75	PRIVATE ROAD	265541K	PRIVATE	GRAVEL	12
20.85	PRIVATE ROAD	265540D	PRIVATE	GRAVEL	12
21.26	SANDROCK RD	265539J	PUBLIC	ASPHAL T	-
22.24	PRIVATE ROAD	265537V	PRIVATE	GRAVEL	12
22.76	SCHOOL ST	265538C	PUBLIC	ASPHAL T	-
23.04	SHERMAN AVE	265536N	PUBLIC	ASPHAL T	-
23.10	SPRUCE ST	2655356	PUBLIC	ASPHAL T	-
23.45	PRIVATE ROAD	265534A	PRIVATE	ASPHAL T	-
23.57	LANGFORD RD	265533T	PUBL IC	CONCRETE	-
23.75	PRIVATE ROAD	265532L	PRIVATE	GRAVEL	12
23.86	PRIVATE ROAD PRIVATE ROAD	265531E	PRIVATE	ASPHAL T	12
24.37	(MAIN AND 1 SIDING) MILESTRIP RD	935562E 265529D	PRIVATE	GRAVEL ASPHAL T	48
24.80	PRIVATE ROAD	265528W	PRIVATE	GRAVEL	12
۷۰۰۰ ۲	INITAIL NOAD	503350H	LINIVALLE	ONAVEL	1.6

AT-GRADE CROSSING TABLE					
MILE POST	NAME	DOT NO.	TYPE	EXISTING SURFACE	GRADE CROSSING SURFACE REMOVAL ITEM NO. 75675.0103 (TF)
25.27	PRIVATE ROAD	265527P	PRIVATE	GRAVEL	12
26.60	PRIVATE ROAD	265526Н	PRIVATE	GRAVEL	12
26.75	PRIVATE ROAD	265525B	PRIVATE	GRAVEL	12
27.05	SENECA ST	265524U	PUBL IC	ASPHAL T	
27.73	TAYLOR HOLLOW RD	265523M	PUBL IC	ASPHAL T	
28.36	LENNOX RD	265521Y	PUBL IC	ASPHAL T	-
28.80	PRIVATE ROAD	265520S	PRIVATE	GRAVEL	12
29.50	PRIVATE ROAD	265519X	PRIVATE	GRAVEL	12
29.75	PRIVATE ROAD	265518R	PRIVATE	GRAVEL	12
30.07	MAIN ST RT 39	265517J	PUBL IC	CONCRETE	-
30.72	WHEATER RD	265516C	PUBL IC	ASPHAL T	
30.81	ROUTE 62	265515V	PUBL IC	ASPHAL T	-
31.75	PRIVATE ROAD	265514N	PRIVATE	GRAVEL	12
31.92	SNOWMOBILE CROSSING	935561 X	PRIVATE	GRAVEL	12
32.50	E. MAIN ST	265512A	PUBL IC	ASPHAL T	-
32.77	ERIE ST	265511T	PUBL IC	ASPHAL T	



TYPICAL SECTION - PRIVATE CROSSING

NOTE:

1. ALL PRIVATE CROSSINGS TO BE REMOVED AS PART OF ITEM 75675.0103 - GRADE CROSSING SURFACE REMOVAL, REGARDLESS OF EXISTING SURFACE, ALL REPLACED WITH STONE CROSSINGS.





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> MP 2.74 TO MP 33.00 ERIE COUNTY, NY

MISCELLANEOUS TABLES

Designed By:	Project No.:	
AJS	32857	
Drawn By:	Scale:	
CAK	NONE	
Checked By:	Plot Date:	
MJ	8/7/2017	

MT-1

SHEET 11