WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WASHINGTON D.C. AREA METRO TRACK DECK SLAB AND CEILING PANEL REHABILITATION AT RHODE ISLAND AVENUE STATION COVER SHEET

CONTRACT #FQQ18086 - FEBRUARY 9, 2018 **VOLUME 2 IFB Drawings**

OFFICE OF DESIGN AND CONSTRUCTION INFRASTRUCTURE RENEWAL PROGRAM GROUP (IRPG)

DESIGN LEAD

GANNETT FLEMING / PARSONS 800 I STREET N.W. SUITE 600 WASHINGTON, D.C. 20001 202-969-3177

HAZARDOUS MATERIALS

CIVIL /TRACK

GANNETT FLEMING / PARSONS 800 I STREET N.W. SUITE 600 WASHINGTON, D.C. 20001 202-969-3177

LANDSCAPE

STRUCTURAL

GANNETT FLEMING / PARSONS 800 I STREET N.W. SUITE 600 WASHINGTON, D.C. 20001 202-969-3177

ARCHITECTURAL



CONSULTANT DESIGN TEAM

EQUIPMENT

PLUMBING

ELECTRICAL GANNETT FLEMING / PARSONS 800 I STREET N.W. SUITE 600

WASHINGTON, D.C. 20001 202-969-3177

FIRE PROTECTION

MECHANICAL

TELECOMMUNICATIONS

LEED

GEOTECHNICAL



	01012		
RACT NO.	SCALE	DRAWING NO.	SHEET NO.
8086	AS NOTED	B04-G-001	01 of 28

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B04-G-001 B04-G-002	01 OF 28 02 OF 28	GENERAL NOTES AND DRAWING INDEX
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B4-S-264	M39-202	PLAN AND ELEVATION - PIERS B1605-IB:OB;
B4-S-292	M39-203	CAP REINFORCING DETAILS - PIERS B1605-IB:0B;
B4-S-265	M39-204	PLAN AND ELEVATION – PIER B1632–IB:0B
B4-S-295 B4-S-266	M39-205 M39-206	PLAN – PIER B1640–IB: 1643–0B
B4-S-290 B4-S-291	M39-207 M39-208	ELEVATION & DETAILS – PIER B1640–IB: 1643 OB CAP REINFORCING DETAILS – PIER B1640–IB: 1643 OB
B4-S-284 B4-S-158	M39-263 M39-275	DECK SLAB JOINT SEAL DETAILS PLATFORM GIRDERS PLAN AND ELEVATION
B4-S-159	M39-276	PG3L, PG34, PG4L, PG4R, PG5L AND PG5R PLATFORM GIRDERS PLAN AND ELEVATION
B4-S-160	M39-277	PG6L AND PG6R PLATFORM GIRDERS PLAN AND ELEVATION RC7L AND RC7R
B4-S-149	M39-278	PLATFORM GIRDERS DIAPHRAGM DETAILS
в4-5-279 B4-S-303	мз9—279 M39—357	PLATFORM GIRDER BEARING ASSEMBLIES PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE
B4-S-305	M39-361	KEY PLAN AND ELEVATION PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE
B4-S-306	M39-362	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE
B4-S-308	M39-363	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE DECK PLAN & DETAILS
B4-A-19	M39-364	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE PLAN, ELEVATION AND SECTION
B4-A-20	M39-365	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE DETAILS
	M39-366	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE LIGHTING PLAN
B4-E-21		
B4-E-21 B4-E-22	M39-367	PEDESTRIAN OVERPASS AT RHODE ISLAND AVENUE LIGHTING FIXTURE DETAILS

			REFERENCE DRAWINGS			REVISIONS
DECIONED	02/00/2018	NUMBER	TITLE	DATE	NUM	DESCRIPTION
DESIGNED	 DATE			02/09/2018	0	FINAL CONTRACT DRAWINGS
	02/09/2018					
	DATE					
CHECKED	02/09/2018					
	DATE					

DRAWING NO.	<u>SHEET NO.</u>	TITLE
B4-E-1B4-E-2B4-E-3B4-E-4B4-E-26B4-E-15B4-E-16B4-E-17B4-E-5B4-E-24B4-E-10	M39-336 M39-337 M39-338 M39-339 M39-241A M39-342 M39-343 M39-344 M39-345 M39-345 M39-345 M39-346	RHODE ISLAND AVENUE STATION ELECTRICAL PLANS RHODE ISLAND AVENUE STATION ELECTRICAL PLAN RHODE ISLAND AVENUE STATION A.C. POWER SERVICE RHODE ISLAND AVENUE STATION ELECTRICAL DIAGRAMS RHODE ISLAND AVENUE STATION ELECTRICAL DIAGRAMS RHODE ISLAND AVENUE STATION ELECTRICAL SCHEJULES RHODE ISLAND AVENUE STATION ELECTRICAL SCHEJULES RHODE ISLAND AVENUE STATION ELECTRICAL SCHEDULES
REFERENCE DRAWINGS	<u>(1994 REHAB):</u>	
B4S-S-7 B4S-S-6 B4S-S-11	M898-15 M898-16 M898-20	PRECAST PANEL LIFTING & OTHER DETAILS CONCRETE REPAIR DETAILS T.G. BEARING REPAIR: PLANS, NOTES & PROCEDURE
B4S-S-12 B4S-S-13 B4S-S-14	M898-21 M898-22 M898-23	EXISTING PIERS 1 THRU 6 & 8:IB & OB EXISTING PIER 7 TRACK GIRDER BEARING JACKING & NOTES
B4S-S-15 B4S-S-15A B4S-E-1 B4S-E-2 B4S-E-4 B4S-E-5	M898-24 M898-24A M898-25 M898-26 M898-28 M898-29	TRACK GIRDER NEW BEARING DETAILS CONCRETE PAD REPAIRS AND EMERGENCY SHIMMING SYMBOLS, ABBREVIATIONS, NOTES AND TYPICAL DETAILS ELECTRICAL PLAN AND DETAILS—SHEET 1 ELECTRICAL DETAILS SHEET 2 ELECTRICAL MEZZANINE GROUNDING PLAN AND DETAILS
TRACK REFERENCE DR	RAWINGS - FOR I	NFORMATION ONLY (NIC):
B04-TA-101 B04-PP-101 B04-PP-102 B04-PP-103 B04-PP-201 B04-PP-202 B04-PP-203 B04-TW-501 B04-TW-502 B04-TW-503	1 OF 11 2 OF 11 3 OF 11 4 OF 11 5 OF 11 6 OF 11 7 OF 11 8 OF 11 9 OF 11 10 OF 11	TRACK B1 AND B2 - HORIZONTAL ALIGNMENT GEOMETRY TRACK PLAN - STA 147+00 TO STA 158+00 TRACK PLAN - STA 158+00 TO STA 169+50 TRACK PLAN - STA 169+50 TO STA 175+00 TRACK PROFILES - STA 147+00 TO STA 158+00 TRACK PROFILES - STA 158+00 TO STA 169+50 TRACK PROFILES - STA 169+50 TO STA 169+50 INBOUND TRACK - TABLE OF ELEVATIONS OUTBOUND TRACK - TABLE OF ELEVATIONS TRACK CHART - GLENMONT ROUTE - STA 122+00 TO STA 152+00

TRACK CHART – GLENMONT ROUTE – STA 152+00 TO STA 182+00

B04-TW-504

11 OF 11

GENERAL NOTES:

- PROVISIONS AND THESE DRAWINGS.

- SAFE MANNER.
- SYSTEMS.
- ISLAND AVENUE TO A.R. FOR APPROVAL.
- WORK.
- DURING CONSTRUCTION

		TAN AREA TRA	ANSIT AUTH	TRACK DECK SLAB AND CEILING PANEL REHABILITATION					
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OFFI	CE OF DESIGN A	ND CONSTRUC	TION						
$\bigcap \bigcap \bigcap$	FACILITIES		GENERAL NOTES AND DRAWING INDEX						
APPROVED	02/09/2018	APPROVED	Daniel A. Br	02/09/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD		DATE	M 1302	FQ18086	NONE	B04-G-002	02 of 28

1. GENERAL NOTES ARE TO BE READ IN CONJUNCTION WITH THE TECHNICAL PROVISIONS, SPECIAL

2. VERIFY AND PROPERLY DOCUMENT ALL FIELD CONDITIONS.

3. ALL PLAN DIMENSIONS SHALL BE MEASURED IN TRUE HORIZONTAL PLANE AND ALL VERTICAL DIMENSIONS SHALL BE MEASURED IN TRUE VERTICAL PLANE EXCEPT AS OTHERWISE NOTED.

4. ANY DEVIATION FROM. OR IN-FIELD ALTERATION TO THESE DRAWINGS. AND SPECIFICATIONS IS STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF A.R., ANY SUCH ALTERATIONS SHALL BE CORRECTED AT ONCE, WITH NO EXPENSE TO THE OWNER.

5. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OF CONSTRUCTION.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES REGARDLESS OF DISCREPANCIES IN THE CONTRACT DOCUMENTS. NO ADDITIONAL COSTS WILL BE PAID BY THE OWNER TO RECTIFY WORK TO BE RELOCATED DUE TO LACK OF JOBSITE COORDINATION.

7. DEMOLITION, CUTTING, AND PATCHING OF ANY MATERIALS OR FIXTURES REQUIRED TO CONSTRUCT THE PROJECT IS HEREIN MADE A PART OF THESE CONTRACT DOCUMENTS.

8. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS.

9. ALL WORK INDICATED OR SHOWN GRAPHICALLY AS "EXISTING TO REMAIN' WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND WORK AROUND WITHOUT DISTURBING. IF DAMAGED. THE CONTRACTOR WILL REPLACE OR REPAIR AT AUTHORITY'S DIRECTION.

10. CONCRETE OR CEMENTITIOUS MATERIAL CONSTRUCTION DEBRIS ARE NOT PERMITTED ON THE TRACK BED. PROTECT AND WRAP EXISTING TRACK DRAIN GRATES IN THE AREA OF OPERATION USING FILTER FABRIC POSITIONED ABOVE AND ANCHORED TO THE GRATES SUCH THAT SOLID MATERIALS CAN BE CAPTURED AND RETAINED AND NOT FLOW INTO THE TRACK DRAIN PIPE BELOW.

11. WMATA SHALL DE-ENERGIZE ELECTRICAL CIRCUITS TO EXISTING CEILING PANEL LIGHT FIXTURES. CONTRACTOR SHALL REMOVE AND DISPOSE OF LIGHT FIXTURES, JUNCTION BOXES AND CONDUITS IN A

12. ALL WASTE WATER SHALL BE CONTAINED AND DISPOSED IN A LAWFUL MANNER. CONTRACTOR IS PROHIBITED FROM DISCHARGING WASTE WATER INTO WMATA TRACK DRAINS AND MUNICIPAL DRAINAGE

13. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC PLANS FOR CONSTRUCTION WORK OVER RHODE

14. CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR ROADWAY CLOSURE FROM DISTRICT TRAFFIC CONTROL AND SUBMIT A COPY OF ALL APPROVED PERMITS TO A.R. PRIOR TO START OF

15. PROTECT RAILS, RAIL FASTENERS AND ALL OTHER SYSTEM ACCESSORIES/EQUIPMENT AT ALL TIMES

16. WMATA WILL PERFORM ASSOCIATED TRACK WORK AS SHOWN IN REFERENCE TRACK DRAWINGS WITHIN THE SHUTDOWN PERIOD. CONTRACTOR SHALL COORDINATE WITH WMATA TRACK WORK.





 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY									
		AND CONSTRUCT	ION						
- IRPG - FIXED FACILITIES									
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JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD		DATE	M 1302	FQ180			



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JOHN PURDY DATE DAVID BURROWS DATE ENGINEERING MANAGER DATE DAVID BURROWS DATE	 APPROVED	02/09/2018	APPROVED	Daniel A. Br	02/09/2018	M NO.	CONT
	 JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORE)	DATE	M 1302	FQ18

I-GENERAL

- 1. VERIFY AND PROPERLY DOCUMENT ALL FIELD CONDITION.
- 2. ALL WORK SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ACI. AISC AND WMATA DESIGN CRITERIA. VERSION 9 REQUIREMENTS.
- 3. ALL DIMENSIONS SHOWN ARE BASED ON AS-BUILT DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL LOCATIONS. DIMENSIONS AND ELEVATIONS OF EXISTING STRUCTURES. UTILITIES, ETC. ANY DISCREPANCIES ARISING BETWEEN EXISTING CONDITIONS AND DETAILS AS SHOWN ON CONTRACT PLANS SHALL BE REPORTED TO THE AUTHORITY REPRESENTATIVE (A.R.) FOR RESOLUTION.
- 4. EMBEDDED ITEMS REQUIRED FOR WORK OF THE VARIOUS TRADES ARE NOT SHOWN IN THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL REFER TO DRAWINGS OF VARIOUS TRADES FOR ALL INSERT, ANCHOR BOLTS, CONDUITS, PIPES AND ANY OTHER NON-STRUCTURAL ITEMS. WORK SHALL BE COORDINATED WITH THE VARIOUS TRADES TO AVOID CONFLICT OR INTERFERENCE WITH REINFORCING STEEL OR STRUCTURAL STEEL MEMBERS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE A.R. PRIOR TO PERFORMING WORK.
- 5. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION. ALL PLAN DIMENSIONS SHALL BE MEASURED IN TRUE HORIZONTAL PLANE AND ALL VERTICAL DIMENSIONS SHALL BE MEASURED IN TRUE VERTICAL PLANE EXCEPT AS OTHERWISE NOTED.
- 6. DRAWINGS HAVE BEEN PREPARED BASED ON AVAILABLE KNOWLEDGE OF EXISTING CONDITIONS. IF DURING DEMOLITION AND RECONSTRUCTION, ACTUAL CONDITIONS ARE DISCOVERED TO DIFFER FROM THOSE INDICATED ON DRAWINGS. A.R. SHALL BE NOTIFIED.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES REGARDLESS OF DISCREPANCIES IN THE CONTRACT DOCUMENTS. NO ADDITIONAL COSTS WILL BE PAID BY THE OWNER TO RECTIFY WORK TO BE RELOCATED DUE TO LACK OF JOBSITE COORDINATION.
- 8. ANY DEVIATION FROM, OR IN FIELD ALTERATION TO THESE DRAWINGS AND SPECIFICATIONS IS STRICTLY PROHIBITED WITHOUT PRIOR APPROVAL OF A.R. ANY SUCH ALTERATIONS SHALL BE CORRECTED AT ONCE WITH NO EXPENSE TO THE OWNER.
- 9. CONTRACTOR SHALL COORDINATE AND VERIFY THE LOCATIONS AND SIZES OF ALL REQUIRED OPENINGS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS AND/OR OF ALL ELECTRICAL AND MECHANICAL UTILITIES TO BE DETACHED FROM AND ATTACHED TO THE STRUCTURE.
- 10. DO NOT CUT OR ALTER ANY EXISTING STRUCTURAL MEMBERS WITHOUT WRITTEN AUTHORIZATION OF THE A.R. UNLESS OTHERWISE SHOWN IN DRAWINGS.
- 11. SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND STRUCTURES. SHORING SHALL NOT BE SUPPORTED ON TRACK LEVEL FRP CEILING PANELS. CONTRACTOR SHALL NOT ANCHOR SHORING TO EXISTING POST-TENSIONED PLATFORM SUPPORT GIRDERS. SUBMIT SIGNED AND SEALED SHORING DESIGN AND LAYOUT TO A.R. FOR REVIEW PRIOR TO STARTING WORK.
- 12. CONTRACTOR SHALL SUBMIT A DEBRIS CONTAINMENT SYSTEM TO A.R. FOR APPROVAL PRIOR TO CONSTRUCTION.
- 13. CONTRACTOR SHALL SUBMIT CONSTRUCTION SEQUENCE, LIFTING PLAN AND PROCEDURE FOR CEILING PANEL REMOVAL AND REPLACEMENT TO A.R. FOR APPROVAL. CONTRACTOR ALSO TO COORDINATE CONSTRUCTION SEQUENCE WITH WMATA TRACK WORK WITHIN THE SHUTDOWN PERIOD. LIFTING PLANS ASSOCIATED WITH CEILING PANEL REMOVAL AND REPLACEMENT SHALL BE DESIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER REGISTERED IN THE DISTRICT OF COLUMBIA.
- 14. ALL DEBRIS FROM TOP OF EXISTING PRECAST PRESTRESSED CEILING PANELS SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 15. WHEN ANCHORING, SHOOTING, DRILLING, CHIPPING, OR CORING INTO CONCRETE, THE AREA SHALL BE X-RAYED, FERRO SCANNED, OR SCANNED USING GROUND PENETRATION RADAR (GPR) PRIOR TO START OF WORK. DO NOT CUT OR NICK EXISTING REINFORCING.
- 16. NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- 17. AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. THE A.R. PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S MEANS OR METHODS OR CONSTRUCTION.
- 18. ALL WORK INDICATED OR SHOWN GRAPHICALLY AS "EXISTING TO REMAIN" WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND WORK AROUND WITHOUT DISTURBING. IF DAMAGED, THE CONTRACTOR WILL REPLACE OR REPAIR AT THE AUTHORITY'S DIRECTION AND AT NO ADDITIONAL COST TO THE OWNER.

II-DESIGN CRITERIA:

- A. DESIGN CODES AND SPECIFICATIONS:
- 1. WMATA MANUAL OF DESIGN CRITERIA RELEASE 9 REV. 3, 2016.

	REFERENCE DRAWINGS		REVISIONS								
DECIONED S FERGUSON 02/09/2018	NUMBER TITLE	DATE NUM	DESCRIPTION								
DESIGNED <u>BETEROOUSIN</u> <u>DATE</u>		02/09/2018 0	FINAL CONTRACT DRAWINGS				<u></u>	-			
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				JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD	DATE	M 1302	FQ18		

GENERAL STRUCTURAL NOTES:

- 2. ACI 318-11. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY.
- 3. STRUCTURAL STEEL: AISC STEEL CONSTRUCTION MANUAL 13TH EDITION.
- B. DESIGN LOADS:
- 1. DEAD LOADS, SHALL BE ACTUAL CALCULATED WEIGHT OF MATERIAL AND PERMANENTLY AFFIXED ITEMS.
- 2. LIVE LOADS FOR PLATFORM: UNIFORM 150 PSF.

III – MATERIALS:

A. CONCRETE:

1. NEW CONCRETE TRACK DECK SLAB f' = 7000 PSI. SEE SPEC. 03300 FOR MORE INFORMATION. FOR REPAIR MORTAR. SEE SPECIFICATION 03720.

B. REINFORCING STEEL:

- 1. ASTM A615, GRADE 60, fy = 60 KSI, EPOXY COATED.
- 2. REINFORCEMENT DETAILS SHALL CONFORM TO THE REQUIREMENTS OF ACI DETAILING MANUAL 2004.
- 3. ALL DIMENSIONS TO REINFORCING ARE TO THE CENTERLINE OF BAR UNLESS OTHERWISE NOTED.
- 4. CONCRETE PROTECTION FOR MAIN REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - TOP BARS: 1" CLEAR TO MATCH W/ EXISTING REBAR U.O.N.
 - SIDE BARS: 2" CLEAR COVER

BOTTOM BARS: 1 1/2" CLEAR COVER

C. STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL SHAPES AND PLATES: ASTM A36 HOT-DIP GALVANIZED.
- 2. HOT-DIP GALVANIZING SHALL CONFORM TO ASTM A123. REPAIR SCRATCHED OR ABRADED GALVANIZED SURFACES WITH APPROVED ZINC-RICH PAINT.
- 3. BOLTS: ALL STAINLESS STEEL BOLTS SHALL BE 5/8" DIAMETER ASTM F593, fy=65 KSI MIN., GROUP 1.
- 4. NUTS: STAINLESS STEEL NUTS AND WASHERS, ASTM F594, GROUP 1 D. WELDING:
- 1. ALL WELDS FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AWS D1.1 (LATEST EDITION) AND SHALL BE PERFORMED BY AN AWS D1.1 CERTIFIED WELDER.
- 2. ELECTRODES SHALL BE AWS CLASS E70XX (ELECTRODES SHALL BE SUITABLE TO GRADE OF BASE METAL). MINIMUM SIZE OF FILLET WELD SHALL BE 3/16" U.O.N.

IV - CONSTRUCTION:

- 1. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" X 3/4", UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR SHALL SUBMIT THE CONSTRUCTION AND REPAIR SEQUENCES TO THE A.R. FOR REVIEW PRIOR TO COMMENCING ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
- 3. ALL NON-KEYED CONSTRUCTION JOINTS SHALL BE ROUGHENED IN ACCORDANCE WITH ACI 318-11, AND BONDED WITH AN APPROVED BONDING AGENT.
- 4. ALL UTILITIES SUCH AS PIPING, CABLES, CONDUITS SHALL BE TEMPORARILY RELOCATED OR PROTECTED PRIOR TO STARTING DEMOLITION AND REPAIR WORK.
- 5. THE CONTRACTOR SHALL REMOVE THE DEBRIS RESULTING FROM DEMOLITION WORK TO A LOCATION OUTSIDE THE AUTHORITY'S RIGHT-OF-WAY PRIOR TO RESUMING FULL RAIL OPERATION OR TO PRE-APPROVED STAGING AREAS. ALL REMOVED MATERIALS AND DEBRIS TO BE DISPOSED OF PROPERLY AT NO ADDITIONAL COST TO THE AUTHORITY.
- A. CONCRETE REMOVALS AND REPAIRS:
- 1. GENERIC DETAILS FOR REHABILITATION OF DEFECTIVE CONCRETE SHOWN IN DRAWINGS ARE BASED ON VISUAL INSPECTION SURVEY. CONTRACTOR SHALL VERIFY LOCATIONS AND SIZES WHERE REPAIRS ARE TO BE MADE AND REPORT TO A.R. IN WRITING OF ANY CONDITIONS WHICH DIFFERS FROM THOSE SHOWN ON DRAWINGS.
- 2. CONTRACTOR SHALL INSPECT CONCRETE BY SOUNDING AND MARK OFF PERIMETER OF CONCRETE TO BE REMOVED. PROVIDE MINIMUM OF ONE INCH CLEARANCE OUTSIDE EDGE OF ANY SPALL/DELAMINATION. ALL AREAS MARKED FOR REPAIRS SHALL BE APPROVED BY A.R. PRIOR TO REMOVAL.
- 3. REMOVAL OF CONCRETE SPALLS SHALL BE ACCOMPLISHED IN STAGES AS NOT TO EXCEED THE EXTENTS SHOWN IN DRAWING. IF PROPOSED REMOVAL IS TO EXCEED THE EXTENTS SHOWN INDRAWINGS, DESIGN CALCULATIONS BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE

DISTRICT OF COLUMBIA SHALL BE SUBMITTED TO A.R. FOR APPROVAL.

- REINFORCEMENT.
- SURFACE PREPARATIONS.
- B. COATING ON TRACK DECK SLAB
 - SPECIFICATION 09900.
- D. CEILING PANEL SLAB REMOVAL, REPLACEMENT:
- THE RHODE ISLAND AVE.

- PANFI .
- AT CEILING PANEL CONNECTIONS.
- ADDITIONAL COST TO THE AUTHORITY.

4. CONTRACTOR SHALL REPORT TO A.R. IF THERE IS MORE THAN 15% OF CROSS SECTIONAL AREA LOSS IN CORRODED REINFORCEMENT. WITH A.R. APPROVAL, CONTRACTOR SHALL USE CADWELD MECHANICAL COUPLER TO CONNECT NEW REINFORCEMENT TO CORRODED

5. CONTRACTOR SHALL APPLY AN APPROVED BONDING AGENT (SIKADUR 32, HI-MOD LPL OR APPROVED EQUAL) ON ALL EXPOSED CONCRETE TO BE REPAIRED AND EXPOSED REBAR.

6. PATCH WORK SHALL NOT BE PERFORMED UNTIL THE A.R. HAS APPROVED THE CONCRETE

1. CONCRETE SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH APPROVED COATING MANUFACTURER'S RECOMMENDATIONS AT TIME OF APPLICATION. APPLY TWO COATS OF APPROVED COATING IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PER

1. ALL EXISTING PRECAST/PRESTRESSED CEILING PANELS AS SHOWN IN PLAN SHALL BE REMOVED AND DISCARDED. EXISTING CEILING PANELS SHALL BE REMOVED IN A SAFE MANNER. CONTRACTOR SHALL SUBMIT MEANS AND METHODS OF EXISTING CEILING PANELS REMOVAL TO A.R. FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH CONSTRUCTION WORK.

2. PRIOR TO REMOVAL OF PRECAST/PRESTRESSED CEILING PANELS OVER RHODE ISLAND AVE. CONTRACTOR SHALL INSTALL NETTING UNDERSIDE THE EXISTING CEILING PANELS TO PREVENT FROM DEBRIS FALLING ONTO RHODE ISLAND AVE. ATTACH DEBRIS NETTING TO PLATFORM GIRDER AND UNDERSIDE OF TRACK DECK SLAB. SUBMIT DEBRIS NETTING PLAN LIMIT, ATTACHMENT INFO. AND TYPE OF NETTING TO BE USED TO WMATA FOR REVIEW AND APPROVAL. A.R. AND CONTRACTOR SHALL JOINTLY INSPECT THE INSTALLATION LIMIT OF THE NETTING. UPON A.R.'S APPROVAL, CONTRACTOR SHALL PROCEED WITH REMOVAL AND REPLACEMENT OF PRECAST/PRESTRESSED CEILING PANELS OVER

3. CONTRACTOR SHALL FIELD VERIFY LOCATIONS, DIMENSIONS AND SIZES OF THE WEDGE INSERT IN STATION PLATFORM GIRDER PRIOR TO FABRICATION OF THE SUPPORT ANGLES AND ORDERING OF HARDWARE FOR THE PROPOSED CEILING PANEL AND PANEL CONNECTION. PRIOR TO STARTING WORK. CONTRACTOR TO SURVEY LOCATIONS OF EXISTING WEDGE INSERTS IN STATION PLATFORM GIRDERS. FABRICATE SLOTTED HOLES IN SUPPORT ANGLES. BASED ON EXISTING FIELD CONDITION.

4. CONTRACTOR SHALL EXERCISE CAUTION NOT TO DAMAGE EXISTING WEDGE INSERT EMBEDDED INSIDE THE PLATFORM GIRDER WHEN UNBOLTING AND REMOVING EXISTING CEILING PANELS.

5. THE NEOPRENE SUPPORT MATERIAL MAY BE REPLACED BY FABREEKA PAD SUPPORT WITH PRIOR APPROVAL OF A.R. SUCH THAT THE DESIGN SLOPE OF PANEL WILL BE MAINTAINED

6. AFTER INSTALLATION OF NEW CEILING PANEL IS COMPLETED. APPLY PROTECTIVE COATING TO ALL EXPOSED ACCESSIBLE CONCRETE SURFACES AND PROVIDE SEALANT IN JOINT AROUND EACH NEW

7. CONTRACTOR SHALL APPLY APPROVED COLD FORM ZINC-RICH PAINT TO ALL METAL SURFACES

8. CONTRACTOR SHALL PROVIDE REPAIR DETAILS TO A.R. FOR APPROVAL FOR ANY DAMAGE CAUSED BY CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR THE DAMAGE AT NO

9. CONTRACTOR SHALL PROVIDE PROPER GROUNDING FOR THE PROPOSED CEILING PANELS AND SHALL ENSURE THAT ALL THE PROPOSED CEILING PANELS ARE GROUNDED AT ALL TIMES.



RACK DECK SLAB AND CEILING PANEL REHABILITATION

B04 - RHODE ISLAND AVENUE STATION ENERAL STRUCTURAL NOTES AND ABBREVIATIONS 1 OF 2

ACT NO.	SCALE	DRAWING NO.	SHEET NO.
)86	NONE	B04-S-900	05 of 28

		REPAIR QUANTITY ESTIMATE SUMMARY TABLE			
ITEM NO.		DESCRIPTION	QUANTITY *	INVENTORY **	UNIT
1		CONCRETE DECK EDGE, FULL DEPTH REPAIR	210	_	LF
	IIFE A REFAIR	SACRIFICIAL ANODE	420	_	EA
2	TYPE B REPAIR	CONCRETE DECK BOTTOM SURFACE, PARTIAL DEPTH REPAIR (OVERHEAD)	150	_	SF
3	TYPE C REPAIR	FULL DEPTH CONCRETE SLAB REPAIR AT EXP. JT. – SIMILAR TO TYPE A	50	_	LF
4	TYPE D REPAIR	CONCRETE DECK TOP SURFACE, PARTIAL DEPTH REPAIR	20	_	SF
		4'-0" X 8'-0" FRP CEILING PANEL	130	121	EA
		L 6X4X5/16 X 8'-0" STEEL SUPPORT ANGLE	130	212	EA
		STEEL ANGLE BRACKETS	260	200	EA
		FRP PANEL END CAPS (20'-0" LENGTH)	55	104	EA
		1/2" NEOPRENE PAD (4'-0" LENGTH)	260	40	EA
		2" NEOPRENE PAD (6'-0" LENGTH)	175	75	EA
5	TYPE E REPAIR	STAINLESS STEEL BOLTS (1/2"ø X 4 1/2")	400	495	EA
		STAINLESS STEEL WASHERS	1300	994	EA
		STAINLESS STEEL LOCKNUTS W/ NYLON INSERTS	400	500	EA
		STAINLESS STEEL ANCHOR BOLTS (1/2"ø X 4 1/2") W/ NUTS & WASHERS	260	500	EA
		WEDGE BOLTS	520	0	EA
		CAULK AND SEAL JOINT	1260	-	LF
		PIER CAP REPAIR AT BEAM BEARINGS	15	_	CF
6	TYPE F REPAIR	LIFTING OF TRACK GIRDER	2 LOCATIONS	_	EACH
7	TYPE G REPAIR	TRACK DECK JOINT SEAL REPAIR AND REPLACEMENT	600	_	LF
8	TYPE H REPAIR	OVERHEAD/EDGE SPALL REPAIRS PEDESTRIAN OVERPASS REPAIR	60	_	SF
9	PROTECTIVE COATI	NG ALONG TRACK GIRDER	12,000	-	SF

QUANTITIES OF REPAIRS REPRESENT ESTIMATES MADE AT TIME OF NON-DESTRUCTIVE INSPECTION BASED ON * LIMITED VISUAL SURVEY WITHIN THE LIMITS OF WORK. FOR ELECTRICAL ITEMS, SEE ELECTRICAL CONTRACT DOCUMENT.

** THIS COLUMN REPRESENTS THE INVENTORY OF ITEMS RELATED TO THE CEILING PANEL REPLACEMENT THAT WMATA WILL PROVIDE. THIS VALUE CAN BE DEDUCTED FROM THE TOTAL QUANTITY REQUIRED TO DETERMINE ADDITIONAL SUPPLIES REQUIRED, IF ANY.

		REFERENCE DRAWINGS			REVISIONS
DECLOSED S FERGUSON 02/00/2018	NUMBER	TITLE	DATE	NUM	DESCRIPTION
DESIGNED <u>3. PERGUSUN</u> <u>02/09/2018</u> DATE			02/09/2018	0	FINAL CONTRACT DRAWINGS
DRAWN L. NGUYEN 02/09/2018					
DATE					
CHECKED I. AHMAD 02/09/2018					
DATE					

TYPICAL GUIDELINE FOR EXPOSING AND UNDERCUTTING **REINFORCING STEEL**



SECTION THROUGH CONCRETE MEMBER

CAUTION: BEFORE STARTING REMOVALS, REVIEW EFFECT OF REMOVALS ON STRUCTURAL INTEGRITY. PROVIDE SHORING OF MEMBERS AS NECESSARY.

NOTES:

- 1. REMOVE LOOSE OR DELAMINATED CONCRETE ABOVE OXIDIZED REINFORCING STEEL. ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED OXIDIZED (CORRODED) BARS. UNDERCUTTING WILL PROVIDE CLEARANCE FOR UNDER BAR CLEANING, FULL BAR CIRCUMFERENCE BONDING TO SURROUNDING CONCRETE, AND WILL SECURE THE PATCH STRUCTURALLY.
- 2. PROVIDE MINIMUM 1" CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE OR 1/4" LARGER THAN LARGEST AGGREGATE IN REPAIR MORTAR, WHICH EVER IS GREATER.
- 3. CONCRETE REMOVALS SHALL EXTEND ALONG THE BARS TO LOCATIONS ALONG THE BAR FREE OF BOND INHIBITING CORROSION, AND WHERE THE BAR IS WELL BONDED TO SURROUNDING CONCRETE.
- 4. IF UNOXIDIZED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, AS DETERMINED BY THE A.R., UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
- 5. ANY REINFORCEMENT WHICH IS LOOSE SHALL BE SECURED IN PLACE BY TYING TO OTHER SECURED BARS OR BY OTHER APPROVED METHODS.
- 6. TAKE EXTRA PRECAUTION NOT TO DAMAGE REINFORCEMENT WHEN REMOVING CONCRETE.
- 7. APPLICABLE TO HORIZONTAL, VERTICAL AND OVERHEAD LOCATIONS UNLESS OTHERWISE NOTED IN DRAWINGS.

TYPICAL GUIDELINE FOR EDGE AND SURFACE CONDITIONING



SECTION THROUGH CONCRETE MEMBER

CAUTION: BEFORE STARTING REMOVALS, REVIEW EFFEC STRUCTURAL INTEGRITY. PROVIDE SHORING OF MEMBER

NOTES:

- REMOVE DELAMINATED CONCRETE, UNDERCUT REINFORCING STEEL (REFER TO 1. REINFORCING STEEL UNDERCUTTING GUIDELINE), REMOVE ADDITIONAL CONCRETE AS REQUIRED TO PROVIDE MINIMUM REQUIRED THICKNESS OF REPAIR MATERIAL.
- 2. TAKE EXTRA PRECAUTION NOT TO DAMAGE REINFORCEMENT WHEN REMOVING CONCRETE.
- AT EDGE LOCATIONS PROVIDE ANGLE CUTS. AVOID FEATHER EDGES. FOR SHOTCRETE REPAIRS REFER TO ACI 506 EDGE PREPARATION GUIDELINES. PATCH CONFIGURATION SHOULD BE KEPT AS SIMPLE AS POSSIBLE. FOR EXAMPLE:



- 4. AFTER REMOVALS AND EDGE CONDITIONING ARE COMPLETE, REMOVE BOND INHIBITING MATERIALS (DIRT. LOOSELY BONDED AGGREGATES) BY ABRASIVE BLASTING OR HIGH PRESSURE WATERBLASTING WITH OR WITHOUT ABRASIVE. CHECK THE SURFACE AFTER CLEANING TO ENSURE THAT SURFACE IS FREE FROM ADDITIONAL LOOSE AGGREGATE, OR THAT ADDITIONAL DELAMINATIONS ARE NOT PRESENT.
- 6. APPLICABLE TO HORIZONTAL, VERTICAL AND OVERHEAD LOCATIONS UNLESS OTHERWISE NOTED IN DRAWINGS.

		AN AREA TR	ANSIT AUTH	TRACK DECK SLAB AND CEILING PANEL REHABILITATION						
metro										
 OFFICE OF DESIGN AND CONSTRUCTION						B04 - RHODE ISLAND AVENUE STATION GENERAL STRUCTURAL NOTES AND ABBREVIATIONS 2 OF 2				
 APPROVED	02/09/2018	APPROVED	Daniel A. Br	02/09/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.	
JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD)	DATE	M 1302	FQ18086	NONE	B04-S-901	06 of 28	

Γ (OF	REMOVALS	ON
S	AS	NECESSAR	XY.



ABBREVIATIONS:

A.R	AUTHORITY'S REPRESENTATIVE
ARCH.	ARCHITECTURAL
BOTT.	ВОТТОМ
Ę	CENTERLINE
C/C	CENTER TO CENTER
ĆF	CUBIC FEET
CLR.	CLEAR
COL.	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
DET.	DETAIL
DWG.	DRAWING
EXIST.	EXISTING
EXP.	EXPANSION
FIN.	FINISH
FLR.	FLOOR
GFRP	GLASS FIBER REINFORCED PLASTIC
GALV.	GALVANIZED
JT.	JOINT
LF	LINEAR FEET
MAX.	MAXIMUM
MEZZ.	MEZZANINE
MIN.	MINIMUM
OPP.	OPPOSITE
PROP.	PROPOSED
PT	POST-TENSIONED
REINF.	REINFORCING
SIM.	SIMILAR
SF	SQUARE FEET
STA.	STATION
STRUC.	STRUCTURAL
T/R	TOP OF RAIL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
REQ'D	REQUIRED
TRK	TRACK





-0"							ፍ ር B15)F PIER 96	DRAWING N
0	0 0	0 0	0 0	0	0 0				1. REFER ADDITI
		-0" X 2'-0"							2. REMOV WORK.
								I	3. ALL E. AND E SHOWN STEEL
TRACK		2'-0" X 6	$\frac{5}{\sqrt{A}}$	→	$\overline{\langle A \rangle}_{\overline{2}},$	04-5-90	/		4. ALL N 3 DAY
						DWG.	-0"		TRACK 3 DAY REACH
· · ·			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				3, −0° , −0		5. THE A LOCATI PROCE
		EXISTING PRECAST PRESTRESSED CEILING PANEL,	EXISTING PLATFOR PG1L	STATION M GIRDER	2'_0	MATCH	2'-		6. ALL EL CONTR
	——————————————————————————————————————	PLATFORM 19.85 - EX	43'-2"	PANEL			12°-4"	26'-4" 40'-6"	7. SEE S 8. EMBED DEMOL PENET SHALL
	DECK OVERHANG		VIOUS CONTRAC	·∢· · . ·		· · Δ	3'-0"		9. THE C FOR R
		• • • • •	o	o	o		4°-0"		10. CONTR WITHIN 11. CONTR
	- 3/8" HOL SEE NOTE	ES @ 8'-0" O.C. 11 THIS SHEET	(TYP) 						INSTAL CEILIN DRILL FOR L B04–E
==									12. WMATA WITHIN INCORI
	<u> </u>	o d 8'-0"	<u> </u>	o 8'-0"	<u> </u>	β'-0"			X DENOT
9						2			
						SCALE	: 3/16" =	= 1'-0"	





ING NOTES:

EFER TO DRAWINGS B04-G-002, B04-S-900 AND B04-S-901 FOR GENERAL NOTES AND DDITIONAL INFORMATION.

EMOVE ALL TEMPORARY SAFETY NETTING UNDER THE TRACK DECK SLAB PRIOR TO STARTING

LL EXISTING PRECAST/PRESTRESSED CEILING PANELS AS SHOWN IN PLAN SHALL BE REMOVED ND DISCARDED. REPLACE WITH NEW FIBER REINFORCED PLASTIC (FRP) CEILING PANELS AS HOWN IN DRAWING B04–S–915. REPLACE ALL EXISTING ANCHOR BOLTS WITH NEW STAINLESS TEEL BOLTS.

LL NEW CONCRETE AND PATCH REPAIR MORTAR SHALL BE CURED FOR AT LEAST DAYS AND UNTIL A MINIMUM 0.75 F'C DESIGN STRENGTH OF CONCRETE IS REACHED. RACKS SHALL NOT BE IN OPERATION OR USED BY PRIME MOVERS FOR AT LEAST DAYS FROM THE DAY OF CONCRETE PLACEMENT AND UNTIL 0.75 F'C CONCRETE STRENGTH IS REACHED.

HE A.R. AND THE CONTRACTOR SHALL JOINTLY INSPECT EACH ITEM TO BE REPAIRED. THE OCATION AND EXTENT OF EACH TYPE OF REPAIR SHALL BE DETERMINED BY THE A.R. PRIOR TO ROCEEDING WITH REPAIR WORK.

LL EXISTING DIMENSIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE ONTRACTOR.

EE SPECIFICATION SECTION 03720 FOR REPAIR OF EXISTING CONCRETE.

MBEDDED CONDUITS MAY BE PRESENT IN TRACK DECK SLAB. PRIOR TO TRACK DECK SLAB EMOLITION, CONTRACTOR TO LOCATE EXISTING REBAR AND EMBEDDED CONDUITS BY GROUND ENETRATING RADAR (GPR) OR ANY OTHER MEANS. AT ANY INSTANCE, NO EMBEDDED ITEMS HALL BE DAMAGED.

HE CONTRACTOR SHALL SUBMIT REPAIR SEQUENCE, PROCEDURES AND MATERIALS TO THE A.R. OR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH REPAIR WORK.

ONTRACTOR SHALL PROTECT FARE GATE CONSOLES AND FARE VENDING MACHINES LOCATED

CONTRACTOR SHALL DRILL 3/8" HOLES @ 8'-0" O.C. TO EXIST. FRP CEILING PANELS TO NSTALL NEW CEILING LIGHTS. CONTRACTOR SHALL LOCATE THE VERTICAL WEBS OF THE FRP CEILING PANELS. HOLES SHALL BE CENTERED IN BETWEEN VERTICAL WEBS. DO NOT DRILL ORILL THROUGH VERTICAL WEBS. SEE DRAWING B04-S-910 FOR ADDITIONAL INFORMATION. OR LIGHT FIXTURE LOCATIONS IN NEW FRP PANELS, REFER TO ELECTRICAL PLAN SHEETS 804-E-104 TO B04-E-107.

MATA WILL PERFORM ASSOCIATED TRACK WORK AS SHOWN IN REFERENCE TRACK DRAWINGS /ITHIN THE SHUTDOWN PERIOD. CONTRACTOR SHALL COORDINATE WITH WMATA TRACK WORK AND NCORPORATE TRACK WORK INTO CONSTRUCTION SEQUENCE AND SCHEDULE. SUBMIT ONSTRUCTION SEQUENCE AND SCHEDULE TO A.R. FOR APPROVAL PRIOR TO STARTING ONSTRUCTION WORK.

ENOTES CEILING PANEL NUMBER

(A)TYPE A, CONCRETE DECK EDGE FULL DEPTH REPAIR, SEE SECTION A ON B04-S-911(B)(B)(C)(C)SIM. TO TYPE A OVERHEAD FLANGE END REPAIR AT EXP. JT. , SEE SECTION A ON B04-S-911(D)</

TRUE NORTH A Gannett Fleming/Parsons JOINT VENTURE "PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE PLAN NORTH DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAW OF THE DISTRICT OF COLUMBIA." No. 907331 907331 LICENSE No. 9/12 CENSE EXPIRATION DATE: 08/31/18 - DC REGISTER SECTION 1516 TRACK DECK SLAB AND CEILING PANEL REHABILITATION

B04 - RHODE ISLAND AVENUE STATION TRACK GIRDER REPAIR OVERALL STRUCTURAL PLAN 1 OF 7

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
086	3/16" = 1'-0"	B04-S-902	07 of 28



M WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY					TRACK DECK SLAB AND CEILING PANEL REHABILITATION					
metro										
OFFICE OF DESIGN AND CONSTRUCTION						B04 - RHODE ISLAND AVENUE STATION				
IRPG - FIXED FACILITIES					TRACK GIRDER REPAIR OVERALL STRUCTURAL PLAN 2 OF 7					
APPROVED	02/09/2018	APPROVED	Denil A. Bu	02/09/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET	NO.
JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD		DATE	M 1302	FQ18086	3/16" = 1'-0"	B04-S-903		08 of 28

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

X DENOTES CEILING PANEL NUMBER

TYPE A, CONCRETE DECK EDGE FULL DEPTH REPAIR, SEE SECTION A ON B04-S-911 TYPE B CONCRETE OVERHEAD SPALL REPAIR, SEE SECTION B ON B04-S-911 $\langle c \rangle$ SIM. TO TYPE A OVERHEAD FLANGE END REPAIR AT EXP. JT. , SEE SECTION A ON B04-S-911 TYPE D CONCRETE TOP SURFACE SPALL REPAIR, SEE SECTION C ON B04-S-911 $\langle E \rangle$ TYPE E, CEILING PANEL REPLACEMENT, SEE PLAN ON B04-S-915 $\langle F \rangle$ PIER CAP REPAIR AT BEAM BEARING, SEE B04-S-914





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		$\Gamma / / / / $				
	4					
	2) (3) (4) (;	5) (6	(7)	(8)

 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY					TRACK DECK SLAB AND CEILING PANEL REHABILITATION					
						B04 - RHODE ISLAND AVENUE STATION				
IRPG - FIXED FACILITIES					TRACK GIRDER REPAIR OVERALL STRUCTURAL PLAN 3 OF 7					
APPROVED	02/09/2018	APPROVED	Davil A. Br	02/09/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.		SHEET NO.
 JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECORD		DATE	M 1302	FQ18086	3/16" = 1'-0"	B04-S-904		09 of 28

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

X DENOTES CEILING PANEL NUMBER

TYPE A, CONCRETE DECK EDGE FULL DEPTH REPAIR, SEE SECTION A ON B04-S-911 TYPE B CONCRETE OVERHEAD SPALL REPAIR, SEE SECTION B ON B04-S-911 $\langle C \rangle$ SIM. TO TYPE A OVERHEAD FLANGE END REPAIR AT EXP. JT., SEE SECTION A ON B04-S-911 TYPE D CONCRETE TOP SURFACE SPALL REPAIR, SEE SECTION C ON B04-S-911 $\langle E \rangle$ TYPE E, CEILING PANEL REPLACEMENT, SEE PLAN ON B04-S-915 $\langle F \rangle$ PIER CAP REPAIR AT BEAM BEARING, SEE B04-S-914

TRUE NORTH







RACT NO.	SCALE	DRAWING NO.	SHEET NO.
3086	3/16" = 1'-0"	B04-S-905	10 of 28



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY					TRACK DECK SLAB AND CEILING PANEL REHABILITATION				
 OFFIC	CE OF DESIGN A IRPG - FIXED	AND CONSTRUC D FACILITIES	CTION			E TRACK GIRI	804 - RHODE ISL DER REPAIR OV	AND AVENUE STA [.] ERALL STRUCTUR	TION AL PLAN 5 OF 7
 APPROVED JOHN PURDY ENGINEERING MANAGER	02/09/2018 DATE	APPROVED DAVID BURROWS ENGINEER OF RECOR	D	02/09/2018 DATE	м no. М 1302	CONTRACT NO. FQ18086	SCALE 3/16" = 1'-0"	drawing no. B04-S-906	SHEET NO. 11 of 28



-0"						90'-0"	
				-			
0 0	0 0		0 0	0 0	0 0	0 0	0
				2'-0" X 2'-0"	B 3'-0" X	3'-0" SPALL	
			© OF PIER	SPALL	✓ B 1	'-0" X 1'-0" SPA	\LL
(TRK 2) TRACK (TYP)					6" X 6" B SPALL	
) 6"X8"		SPALL				' X 1'-0" SPALL	
	A EDC	E OF TRACK K OVERHANG				A	↓ ↓ 1'
	6 2	63	64 65		67 .4	68	
	SPAL				3, P		• •
ATION CE REPLAC PRECAS NEW, S	CE ALL EXIST EXI ST PANEL W/ SEE B04-S-915	STING STATION PL GIRDEI	ATFORM R PG6L (B)-/		B S 1 SF SPAL	IM. (B) $4'$ (A)	\rangle
TION (TYP)	PLATFORM	Ę	<	$\begin{pmatrix} C \end{pmatrix}_{3}^{2},$		'-6" X 6" SPALL	
						B SIM.	
CK NG	EXISTING STATION PLA GIRDER	TFORM PG6R	4 SF SPA	ILL AT PIER B	, s	PALL $\langle A \rangle$	
		5' <u>A</u>	· · · · · · · · · · · · · · · · · · ·				
7) (18)		20	21	22		24	2
18' A	EXIST. ANGLE AND REPLACED B04-S-915 (TO BE REMOVED D, SEE DWG. TYP)	(A)_12'	4_SF_S GIRDER	D SPALL ON TRACK SURFACE		2
RACK (TYP)		,					
	GUTTER (TYP)				 C		—-/-
0" 8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	9'-0"	7'-0"	8'-0



 M metro	/ASHINGTO	N METROPOL	ITAN AREA TR	ANSIT AUTH	ORITY		TR
	OFF	ICE OF DESIGN	AND CONSTRUC	CTION			
 IRPG - FIXED FACILITIES							
APPROVED		02/09/2018	APPROVED	Daniel A. Bu	02/09/2018	M NO.	CONTRA
JOHN PURDY ENGINEERING M	IANAGER	DATE	DAVID BURROWS ENGINEER OF RECOR	D	DATE	M 1302	FQ1808

ACT NO.	SCALE	DRAWING NO.	SHEET NO.
)86	3/16" = 1'-0"	B04-S-907	12 of 28



	ON METROPOLI	AN AREA TRA	ANSIT AUTH	IORITY		TRACK DE	CK SLAB AND	CEILING PANEL RE	HABILITA	TION
OF	FICE OF DESIGN A IRPG - FIXED	ND CONSTRUC FACILITIES	TION			E TRACK GIRI	804 - RHODE ISI DER REPAIR O\	AND AVENUE STA	TION RAL PLAN	7 OF 7
APPROVED JOHN PURDY ENGINEERING MANAGER	02/09/2018 DATE	APPROVED DAVID BURROWS ENGINEER OF RECORD	Duil A. Bu	02/09/2018 DATE	м no. М 1302	CONTRACT NO. FQ18086	SCALE 3/16" = 1'-0"	DRAWING NO. B04-S-908		SHEET NO. 13 of 28

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

(X) DENOTES CEILING PANEL NUMBER

TYPE A, CONCRETE DECK EDGE FULL DEPTH REPAIR, SEE SECTION A ON B04-S-911 TYPE B CONCRETE OVERHEAD SPALL REPAIR, SEE SECTION B ON B04-S-911 $\left< C \right>$ SIM. TO TYPE A OVERHEAD FLANGE END REPAIR AT EXP. JT. , SEE SECTION A ON B04-S-911 TYPE D CONCRETE TOP SURFACE SPALL REPAIR, SEE SECTION C ON B04-S-911 $\langle E \rangle$ TYPE E, CEILING PANEL REPLACEMENT, SEE PLAN ON B04-S-915 $\langle F \rangle$ PIER CAP REPAIR AT BEAM BEARING, SEE B04-S-914

TRUE NORTH





- ADDITIONAL INFORMATION.

 M WASHINGTO	ON METROPOLI	TAN AREA TF	RANSIT AUTH	IORITY		TRACK DE	CK SLAB AND	CEILING PANEL RE	HABILITATION	
 OFF	FICE OF DESIGN A	AND CONSTRU	CTION		-	E	804 - RHODE IS	LAND AVENUE STA	TION	
IRPG - FIXED FACILITIES						OVERALL SECTION THRU STATION PLATFORM				
 APPROVED	02/09/2018	APPROVED	Denil A. Br	02/09/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.	
 JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECOF	RD	DATE	M 1302	FQ18086	AS NOTED	B04-S-909	14 of 28	

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND

2. ALL DIMENSIONS ARE REFERENCED FROM FROM WMATA RECORD DRAWINGS AND SHALL BE FIELD VERIFIED



M WASHINGT	ON METROPOLI	TAN AREA TR	ANSIT AUTH	IORITY		TRACK DE	ECK SLAB AND	CEILING PANEL RE	EHABILITATION
OF DADA	FICE OF DESIGN A	AND CONSTRUC	TION			E N	304 - RHODE IS EW FRP CEILIN	LAND AVENUE STA NG PANEL PARTIAL	ATION . PLAN
APPROVED JOHN PURDY ENGINEERING MANAGER	02/09/2018 DATE	APPROVED DAVID BURROWS ENGINEER OF RECORI	Denil A. Br	02/09/2018 DATE	м no. М 1302	CONTRACT NO. FQ18086	SCALE AS NOTED	DRAWING NO. B04-S-910	SHEET NO. 15 of 28

- 1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.
- 2. FOR NEW FRP CEILING PANEL DETAILS, SEE B04-S-915.





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OFFI	CE OF DESIGN	AND CONSTRU	CTION			
QOQ	IRPG - FIXE	D FACILITIES				
APPROVED	02/09/2018	APPROVED	Duril A. Br	02/09/2018	M NO.	CONTR
JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECO	RD	DATE	M 1302	FQ180

	<u>NOTE</u>	<u>'S:</u>
	1	SQUARE UP AND ROUGHEN SURFACE. REFER TO DRAWING B04–S–901.
	2	INSTALL EXPANSION ANCHOR.
	3	APPLY BONDING AGENT.
,)4—S—902	4	REPAIR MORTAR SHALL BE A TWO COMPONENT POLYMER -MODIFIED EMENTITIOUS TROWEL-GRADE MORTAR. EXTEND MORTAR WHEN REPAIR THICKNESS OF LIFT IS GREATER THAN 3/4" PER MANUFACTURER REQUIREMENTS.
CUT EDGE M 1/2" MIN	5	CONCRETE COVER OF REINFORCEMENT SHALL NOT BE LESS THAN 1 INCH.
A 1/2 MIN 3/4" MAX FEATHERED ES ALLOWED) CE NG DSED	6	USE POTABLE WATER FOR CURING REPAIR WORK.
	7	CLEAN ALL CORROSION OFF REINFORCING, SPLICE IN NEW REBAR AS MAY BE REQUIRED. APPLY BONDING AGENT WITH AN ANTI-CORROSION INHIBITING PROTECTION SYSTEM. REFER TO DRAWING B04-S-901.
	8	WHEN REPAIR MORTAR IS PLACED IN MULTIPLE LIFTS, CONTRACTOR SHALL SCORE SURFACE OF MORTAR FOR ADDITIONAL LIFTS AND APPLY A BONDING AGENT BEFORE APPLYING NEW LIFT, UNLESS OTHERWISE REQUIRED BY MANUFACTURER'S REPAIR MATERIALS.
	9	ALL REPAIRED AREAS SHALL BE CURED BY USING PLASTIC SHEETING TAPED ALL AROUND. SHEETING SHALL REMAIN IN PLACE FOR A MINIMUM OF THREE DAYS.
	*	IF THE DEPTH OF OVERHEAD AND TOP SURFACE SPALL REPAIR $\leq 1\frac{1}{4}$ " WITH NO REBAR EXPOSED, FOLLOW SIMILAR PROCEDURE STATED ABOVE ONLY OMIT STEP 7.

NOT TO SCALE

DRAWING NOTES:

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.



B04 - RHODE ISLAND AVENUE STATION TYPICAL TRACK GIRDER REPAIR DETAILS

RACT NO.	SCALE	DRAWING NO.	SHEET NO.							
8086	AS NOTED	B04-S-911	16 of 28							



JOINT SEAL INSTALLATION NOTES:

- CONSTRUCTION.
- INSTALLATION OF NEW FOAM JOINT SEALS.
- SEALS.

- MANUFACTURER'S RECOMMENDATIONS.

DRAWING NOTES:

1. REFER TO DRAWINGS B04-G-002, B04-S-900, B04-S-901 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.

 M metro WA	SHINGTO	N METROPOL	ITAN AREA TR	ANSIT AUTH	IORITY		TR
	OFFI	CE OF DESIGN	AND CONSTRUC				
	QOR	IRPG - FIXE	D FACILITIES				
 APPROVED	<i>.</i>	02/09/2018	APPROVED	Danil A. Br	02/09/2018	M NO.	CONTRA
 JOHN PURDY ENGINEERING MANA	AGER	DATE	DAVID BURROWS ENGINEER OF RECOR	D	DATE	M 1302	FQ1808

1. DIMENSIONS OF DECK SLAB JOINT SEAL SHALL BE FIELD MEASURED PRIOR TO ANY FABRICATION OR

2. THE WORK TO BE COMPLETED INCLUDES THE COMPLETE REMOVAL OF EXISTING JOINT SEALS AS SHOWN AND

3. REPLACEMENT OF THE JOINTS SHALL BE DONE AT THE DIRECTION OF THE A.R.

4. ALL ELECTRICAL CIRCUITS ON THE STRUCTURE SHALL BE DE-ENERGIZED DURING REPLACEMENT OF THE JOINT

5. THE EXISTING JOINT MATERIALS SHALL BE COMPLETELY REMOVED FOR THE ENTIRE LENGTH OF THE JOINT. ALL JOINT ADHESIVE AND DEBRIS SHALL BE CLEANED FROM THE VERTICAL CONCRETE JOINT FACE. MEANS AND METHODS OF CLEANING THE JOINT SHALL BE SUBMITTED TO A.R. FOR APPROVAL PRIOR TO ANY WORK TAKING PLACE. DAMAGES TO ANY EXISTING STRUCTURAL ELEMENTS OR TRACK EQUIPMENT ADJACENT TO THE JOINT ARE TO BE REPAIRED IMMEDIATELY AT THE EXPENSE OF THE CONTRACTOR.

6. CONTRACTOR SHALL MAKE ALL NECESSARY CONCRETE REPAIRS AND PREPARATION WORK REQUIRED PER JOINT MANUFACTURE'S RECOMMENDATION PRIOR TO DECK JOINT INSTALLATION.

7. AN APPROPRIATE ADHESIVE SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

8. INSTALL FOAM JOINT SEAL IN ACCORDANCE WITH THE DETAILS AND MANUFACTURER'S RECOMMENDATIONS.

9. PROVIDE JOINTS THAT ALLOW FOR ADEQUATE MOVEMENT BASED ON THE EXISTING STRUCTURE DRAWINGS AND THE

10. DECK APPURTENANCES NOT SHOWN FOR CLARITY. CONTRACTOR SHALL VERIFY IN FIELD AND REPORT TO A.R. IF ANY CONDITION IS DIFFER THAN AS SHOWN ON DRAWING.

11. AS-BUILT DRAWING B4-S-284 DECK SLAB JOINT SEAL DETAILS IS ATTACHED.



B04 - RHODE ISLAND AVENUE STATION

MISCELLANEOUS TRACK GIRDER REPAIR DETAILS

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
3086	AS NOTED	B04-S-912	17 of 28



RACT NO. SCALE DRAWING NO. SHEET NO. 3086 AS NOTED B04-S-913 18 of 28				
B086 AS NOTED B04-S-913 18 of 28	RACT NO.	SCALE	DRAWING NO.	SHEET NO.
	8086	AS NOTED	B04-S-913	18 of 28



RACT NO.	SCALE	DRAWING NO.	SHEET NO.							
8086	AS NOTED	B04-S-914	19 of 28							



	N METROPOLIT	AN AREA TRA	NSIT AUTH	ORITY		TRACK DEC	K SLAB AND CEI	LING PANEL REHABILIT	ATION
OFF	FICE OF DESIGN A IRPG - FIXED	ND CONSTRUCT FACILITIES	ION			B04 FRP	- RHODE ISLAN CELING PANEL -	D AVENUE STATION PLANS AND DETAILS	
APPROVED JOHN PURDY ENGINEERING MANAGER	02/09/2018 DATE	APPROVED DAVID BURROWS ENGINEER OF RECORD	Touil A. Bu	02/09/2018 DATE	м no. М 1302	CONTRACT NO. FQ18086	SCALE AS NOTED	drawing no. B04-S-915	SHEET NO. 20 of 28

- 1. REFER TO DRAWINGS B04-G-002, B04-S-900 AND B04-S-902 FOR GENERAL NOTES AND ADDITIONAL INFORMATION.
- 2. DIMENSIONS OF CEILING PANEL SHALL BE FIELD MEASURED PRIOR TO ANY FABRICATION OR CONSTRUCTION.
- 3. LLV DENOTES LONG LEG VERTICAL. LLH DENOTES LONG LEG HORIZONTAL.
- 4. ALL MATERIAL SHALL BE HOT DIP GALVANIZED, UNLESS OTHERWISE NOTED.
- 5. PRIOR TO CEILING PANEL FABRICATION, CONTRACTOR SHALL LOCATE ALL EMBEDDED ITEMS IN TRACK DECK SLAB BY GPR OR ANY OTHER EFFECTIVE AND NON-DESTRUCTIVE MEANS. ADJUST ATTACHMENT LOCATIONS AS REQUIRED TO AVOID REBAR CONFLICT. DO NOT DRILL THROUGH OR DAMAGE EXISTING REBARS.
- 6. CONTRACTOR TO TRIM FRP PANELS AND ADD END CAPS WHERE REQUIRED TO COMPLETE THE INSTALLATION WITHIN THE LIMIT SHOWN IN PLANS. CONTRACTOR TO SEEK APPROVAL FROM A.R. PRIOR TO PROCEEDING WITH ANY ADJUSTMENT OR TRIMMING OF FRP PANELS. MAINTAIN A MINIMUM TWO SUPPORT POINTS ALONG PLATFORM GIRDER FOR TRIMMED FRP PANELS. SEE FRP PANEL MANUFACTURER'S RECOMMENDATION FOR ADDITIONAL INFORMATION.





M WASHING	TON METROPOL	ITAN AREA TI	RANSIT AUTH	IORITY		TI
(OFFICE OF DESIGN	AND CONSTRU	ICTION		-	
CA DK	IRPG - FIXE	D FACILITIES				
APPROVED	02/09/2018	APPROVED	Donil A. Bu	02/09/2018	M NO.	CONTR
JOHN PURDY ENGINEERING MANAGER	DATE	DAVID BURROWS ENGINEER OF RECO	DRD	DATE	M 1302	FQ18

CONCRETE REPAIR NOTES:

- 1. CONCRETE REPAIRS SHALL BE COMPLETED IN THE FOLLOWING ORDER: SPALL REPAIRS, CRACK REPAIR BY EPOXY INJECTION, CRACK SURFACE ROUT AND SEAL.
- 2. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR INSTALLATION OF GROUT MATERIAL.
- 3. SEE GENERAL NOTES ON B04-S-921.

1. REFER TO DRAWING B04-G-002. B04-S-900 AND

B04-S-901 FOR GENERAL NOTES AND ADDITIONAL

- 4. SEE SPECIFICATION SECTION 03720 REPAIR OF EXISTING CONCRETE.
- 5. REPAIR TOP SURFACE OF CONCRETE PLATFORM SLAB AS REQUIRED AFTER REMOVAL OF ARCHITECTURAL TOPPING MATERIALS.

NOTES:

INFORMATION.



B04 - RHODE ISLAND AVENUE STATION TYPICAL REPAIR DETAILS

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
086	AS NOTED	B04-S-916	21 of 28

GENERAL NOTES

- 1. CONTRACTOR SHALL CONTACT WMATA AUTHORITY REPRESENTATIVE (AR) TO DEFINE ACCEPTABLE WORKING HOURS, SPACE FOR STORAGE OF MATERIALS, PARKING, ETC.
- 2. ALL MATERIALS PROVIDED SHALL BE UL LISTED, NEW AND CONFORM TO CONTRACT SPECIFICATIONS, DRAWINGS AND THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- 3. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND LOCAL CODES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- 4. THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIALS AND EQUIPMENT AT EACH LOCATION AS INDICATED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT INDICATE ALL PULL BOXES, OFFSETS, FITTINGS AND ACCESSORIES AS MAY BE REQUIRED. FURNISHING SUCH MATERIALS AS REQUIRED TO MEET FIELD CONDITIONS AND NEC REQUIREMENTS SHALL BE AT NO ADDITIONAL COST TO THE AUTHORITY.
- 5. THE CONTRACTOR SHALL EXAMINE THE SITE AND OBSERVE THE CONDITIONS UNDER WHICH THE WORK SHALL BE DONE OR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE CONTEMPLATED WORK PRIOR TO SUBMITTING A BID. ANY REQUESTED VARIANCE TO THESE CONTRACT DOCUMENTS SHOULD BE SUBMITTED AS PART OF THE BID. ANY VARIANCE REQUIRED FOR FIELD CONDITIONS IDENTIFIED AFTER THE BID PERIOD WILL BE RESPONSIBILITY OF CONTRACTOR.
- 6. INDICATED DIMENSIONS OF EQUIPMENT ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE FINAL VERIFICATION OF ALL MEASUREMENTS SO THAT THE NEW EQUIPMENT CAN BE MANUFACTURED TO RETROFIT EXISTING CONDITIONS.
- 7. THE CONTRACTOR SHALL ONLY WORK ON DE-ENERGIZED EQUIPMENT. ALL OUTAGES SHALL BE COORDINATED THROUGH WITH THE AUTHORITY REPRESENTATIVE (AR).
- 8. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO SECURE AND PROTECT THE OPERATIONAL EQUIPMENT IN THE STATION OR FACILITY DURING CONTRACTOR'S WORK, TO PREVENT DAMAGE OR SHUT DOWN OF EQUIPMENT.
- 9. CONTRACTOR SHALL PROTECT EXISTING ELECTRICAL EQUIPMENT TO REMAIN FREE FROM DUST AND WATER DURING CONTRACTOR'S WORK.
- 10. ALL NEW EQUIPMENT TO BE INSTALLED SHALL BE STORED PROPERLY. EQUIPMENT DAMAGED DURING SHIPPING, HANDLING, STORAGE, WATER OR OTHER CAUSES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- 11. CONTRACTOR SHALL TEMPORARILY STORE THE EXISTING REMOVED EQUIPMENT UNTIL ITS DISPOSAL. A STAGING AREA INSIDE THE FACILITY SHALL BE ESTABLISHED TO AVOID OBSTRUCTION TO EXISTING ELECTRICAL EQUIPMENT WITH LOCATION APPROVED BY THE AR. COORDINATE WITH AN THE AR TO DETERMINE WHETHER REMOVED EQUIPMENT SHOULD BE RETURNED TO WMATA OR DISPOSED OF BY CONTRACTOR.
- 12. INTERRUPTION OF SERVICE TO EQUIPMENT SHALL BE KEPT TO A MINIMUM, AND SHALL BE COORDINATED WITH THE AR AT LEAST TWO WEEKS PRIOR TO THE REQUIRED OUTAGE.
- 13. CONTRACTOR SHALL OBTAIN & BECOME FAMILIAR WITH WMATA'S SAFETY AND OPERATING PROCEDURES & RULES. SAFETY TRAINING & CERTIFICATION FOR ALL CONTRACTOR EMPLOYEES ON THE WORK SITE IS MANDATORY.
- 14. A CLEAR AND UNOBSTRUCTED PATHWAY FROM TRACK TO STREET SHALL BE MAINTAINED AT ALL TIMES FOR PERSONNEL ACCESS. THIS INCLUDES PROHIBITING SUCH ACTIVITIES AS BLOCKING DOORWAYS, PATHWAYS OR STAIRS WITH EQUIPMENT AND MATERIALS, DISMANTLING STAIRS AND OBSTRUCTING STREET HATCHWAYS.
- 15. CONTRACTOR MUST INCLUDE UNIT PRICE FOR LABOR DURING WMATA NON-REVENUE HOURS.
- 16. ALL NEW POWER WIRES SHALL HAVE TYPE RHW-2 INSULATION, LOW SMOKE, ZERO HALOGEN. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR POWER WIRING AND #14 AWG FOR CONTROL WIRING. COLOR CODING OF POWER CONDUCTORS SHALL BE AS FOLLOWS: PHASE 208/120V 480/277V BROWN BLACK Α

В	RED	ORANGE
С	BLUE	YELLOW
GROUNDED CONDUCTO	OR (NEUTRAL) WHITE	GRAY

	REFERENCE DRAWINGS		REVISIONS								TR
DESIGNED 02/09/2018	NUMBER TITLE	DATE	NUM	DESCRIPTION	metro						
DESIGNED DATE		02/09/2018	0	FINAL CONTRACT DRAWINGS							
DRAWN 02/09/2018						OFFIC	E OF DESIGN /	AND CONSTRUCT	ION		
DATE						\bigcap , \bigcap , \bigcap	IRPG - FIXFI	D FACILITIES	$P \wedge C \sim c$		
CHECKED P. LORENZO 02/09/2018						per C ky			SAXA		
DATE					APPROVED	, 0	02/09/2018	APPROVED	02/09/2018	M NO.	CONTRAC
					JOHN PURDY		DATE	BRIAN SEIP	DATE	M 1302	FQ1808
					ENGINEERING N	IANAGER		ENGINEER OF RECORD			

GROUNDING CONDUCTOR GREEN GREEN PROVIDE FACTORY COLOR CODED WIRE FOR # 6 AWG AND SMALLER WIRE. WIRE # 4 AWG AND LARGER MAY BE COLOR CODED BY COLOR TAPING OF THE ENTIRE LENGTH OF THE EXPOSED ENDS. SUBSTITUTIONS FOR COLOR-CODED WIRE: WITH APPROVAL OF OWNER'S REPRESENTATIVE, AND WHERE COLOR CODING CANNOT BE READILY PROVIDED, PROVIDE COLORED TAPE APPLIED SPIRALLY AND HALF-LAPPED OVER EXPOSED PORTIONS OF CONDUCTORS WITHIN MANHOLES, BOXES. AND AT TERMINATION POINTS.

- SECTIONS 13110 AND 13115.
- PROHIBITED.
- - NO FIELD SPLICING WAS DONE

PROVIDE AN ALTERNATE BID PRICE FOR THIS WORK. ALL EXISTING WIRING THUS RESTORED SHALL BE TESTED FOR CONTINUITY AND INSULATION RESISTANCE.

24. ALL EQUIPMENT SHALL BE PROVIDED IN OUTDOOR ENCLOSURE, NEMA 4.

17. ALL NEW CONDUITS SHALL BE TYPE GRS WHERE EXPOSED AND TYPE FRE WHERE EMBEDDED IN CONCRETE. MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH. ALL MATERIALS AND INSTALLATION SHALL COMPLY WITH NFPA-130 REQUIREMENTS.

18. SEE REFERENCE DRAWINGS FOR LOCATION OF ELECTRICAL ROOMS, POWER SOURCES, PANELS, AND OTHER INFORMATION NOT SHOWN HERE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION CONTAINED IN THE AS-BUILT REFERENCE DRAWINGS.

19. RESTORE ANY PLATFORM EMBEDDED STRAY CURRENT PROTECTION CONDUCTORS THAT MAY BE BROKEN DURING STRUCTURAL WORK. COMPLY WITH SPECIFICATION

20. FIELD SPLICES ARE PERMITTED ONLY FOR TEMPORARILY RELOCATED WIRING. FOR NEW PERMANENT WIRING. COMM WIRING SHALL BE INSTALLED CONTINUOUSEND-TO-END WITHOUT SPLICES. POWER BRANCH CIRCUIT WIRING SPLICES ARE PERMITTED IN APPROVED JUNCTION BOXES AND ONLY WHERE REQUIRED TO TAP CONDUCTORS FOR THE PURPOSE OF SUPPLYING POWER LOADS AND LIGHTING FIXTURES. SPLICING OF POWER MAIN FEEDERS IS

21. WHERE SUFFICIENT SLACK EXISTS IN WIRING TO BE TEMPORARILY RELOCATED, THE CONTRACTOR MAY USE AVAILABLE SLACK TO RELOCATE WIRING WITHOUT SPLICING, AND SHALL RESTORE WIRING TO ITS ORIGINAL LOCATION UPON STRUCTURAL WORK COMPLETION. THIS OPTION MAY BE ELECTED IN LIEU OF PROVIDING NEW REPLACEMENT WIRING AND CONDUIT PROVIDED THAT:

 THE RELOCATED CONDUCTORS ARE FREE OF DAMAGE. EXISTING CONDUIT IS IN GOOD PHYSICAL CONDITION AND NO PART OF THE CONDUIT IS SEVERELY CORRODED.



ACK DECK SLAB AND CEILING PANEL REHABILITATION

B04 - RHODE ISLAND AVENUE STATION ELECTRICAL GENERAL NOTES

RACT NO.	SCALE	DRAWING NO.	SHEET NO.				
8086	NONE	B04-E-001	22 of 28				

ABBREVIATIONS

#	NUMBER		
&	AND		
0	AT		
		EXIST	EXISTING
A/C	AIR CONDITIONING	EXP	EXPOSED
AFF	ABOVE FINISHED FLOOR		
AHU	AIR HANDLING UNIT	F.F.	FINISH FLOOR
AR	AUTHORITY REPRESENTATIVE	FA	FIRE ALARM
ARCH	ARCHTECT(URAL)	FAAP	FIRE ALARM ANNUNCIATOR PANEL
AUTO	AUTOMATIC	FC	FOOT-CANDLE
AUX	AUXILARY	FIN	FINISH(ED)
AV	AUDIO VISUAL	FIN GR	FINISH GRADE
AVG	AVERAGE	FLEX	FLEXIBLE
		FLR	FLOOR(S)
BAS	BUILDING AUTOMATION SYSTEM	FLUOR	FLUORÈŚCENT
BFP	BACKFLOW PREVENTER	FRE	FIBER GLASS REINFORCED
BLDG	BUILDING		EPOXY CONDUIT
BSMT	BASEMENT	FT	FEET (FOOT)
		GAL	CALLON(S)
СВ	CIRCUIT BREAKER	GALV	GALVANIZED
CCTV	CLOSED CURCUIT TELEVISION	GFI	GROUND FAULT INTERRUPTING
CIRC	CIRCULATION	GND	GROUND
CL	CENTER LINE	GPH	GALLONS PER HOUR
CLG	CEILING	GPM	GALLONS PER MINUTE
CLG HT	CEILING HEIGHT	GRS. GRSC	GAI VANIZED RIGID STEFI
CMU	CONCRETE MASONRY UNIT(S)		CONDUIT
COMM	COMMUNICATION		
CONN	CONNECT(ION)	HR	HOUR(S)
CONT	CONTINUOUS / CONTINUE	HT	HEIGHT
CORR	CORRIDOR		
CTR	CENTER(ED)	KVA	KILO VOLT – AMPERES
CU	CUBIC		
DB	DECIBEI	LTG	LIGHTING
DEG	DEGREES	LV	LOW VOLTAGE (208V OR 480V)
DIA	DIAMETER		
DIAG	DIAGONAL	М.Н.	MOUNTING HEIGHT
DIFF		MACH	MACHINE
DIM	DIMENSION(S)	MAINT	MAINTAIN / MAINTENANCE
DN	DOWN	MATL	MATERIAL
DS	DISCONNECT SWITCH	MAX	MAXIMUM
DWG	DRAWING		
F۸	EVU	MECH	MECHANICAL
		MFR	MANUFACTURER
		MIN	MINIMUM
FLEV OL	ELECTRICAL CLOSET	MISC	MISCELLANEOUS
	EMERGENCY	MLO	MAIN LUGS ONLY
FMR	ELEVATOR MACHINE ROOM		
ENCI		MTD	MOUNTED
FNTR	ENTRANCE		
FQUIP	FQUIPMENT		
ESC	FSCALATOR		
FSCSP	ESCALATOR SUMP PUMP		
ESP	ELEVATOR SUMP PUMP		

		REFERENCE DRAWINGS			REVISIONS			
DEGIONED	02/09/2018	NUMBER	TITLE	DATE	NUM	DESCRIPTION		
DESIGNED 02/09/20 DATE	 DATE			02/09/2018	0	FINAL CONTRACT DRAWINGS		
	02/09/2018							
	DATE							
CHECKED P. LORENZO	02/09/2018							
	DATE							

N N/A	NORTH NOT APPLICABLE	\bigoplus	DUPLEX ELECTRICAL RECEPTACLE, 120V, 20A M.H. 18" AFF
NFSS NIC NO NTS	NON-FUSED SAFETYSWITCH NOT IN CONTRACT NUMBER NOT TO SCALE	₩P GFI	DUPLEX ELECTRICAL RECEPTACLE WITH GFI PROTECTION, WEATHER PROOF M.H. 18" AFF
OC OD	ON CENTER OUTSIDE DIAMETER /	()) OR []	JUNCTION BOX – CEILING MOUNTED TYPE AS INDICATED OR AS REQUIRED BY CODE
OSHA	DIMENSION OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION		JUNCTION BOX - WALL MOUNTED
PWR	POWER	PB	PULL BOX – SIZE AS REQUIRED, NEMA 4X OUTDOORS, NEMA 12 INDOORS
RAD RECPT REF REQD REV RM RND ROW	RADIUS RECEPTACLE REFERENCE REQUIRED REVISED / REVISION ROOM ROUND(ED) RIGHT OF WAY		
SCHED SECT SHT SIM SQ SQ FT STD	SCHEDULE(D) SECTION SHEET SIMILAR SQUARE SQUARE FOOT / FEET STANDARD		
SYMM	SYMMETRICAL		
TCR TEMP TYP	TRAIN CONTROL ROOM TEMPERATURE TYPICAL		
UNO	UNLESS NOTED OTHERWISE		
VA VERT	VOLT – AMPERES VERTICAL		
WP WT	WEATHERPROOF WEIGHT		

 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY							TF
	OFFI	CE OF DESIGN	AND CONSTRUC	CTION			
	(JADR	IRPG - FIXE	D FACILITIES	RASE SO			
APPROVED	6	02/09/2018	APPROVED		02/09/2018	M NO.	CONTRA
JOHN PURDY ENGINEERING M	ANAGER	DATE	BRIAN SEIP ENGINEER OF RECOR	D	DATE	M 1302	FQ180

LEGEND

	EMERGENCY TRIP STATION
•	CONDUIT OR CABLE TURNING AWAY OR DOWN
0	CONDUIT OR CABLE TURNING UPWARD OR TOWARDS VIEWER
	CONDUIT OR CABLE EXPOSED CONDUIT EMBEDDED IN CONCRETE
	CONDUIT RUN CONCEALED IN PUBLIC SPACES OR EXPOSED IN AUXILLIARY SPACES 1 PHASE , 1 NEUTRAL , 1 GROUND CONDUCTORS
	SAME AS ABOVE 2 PHASE , 1 NEUTRAL , 1 GROUND CONDUCTORS
	SAME AS ABOVE 3 PHASE , 1 NEUTRAL , 1 GROUND CONDUCTORS
WMES - 1	HOMERUN TO PANEL. EQUIPMENT GROUND WIRE SHALL BE PROVIDED FOR ALL CIRCUITS. MINIMUM 3/4"C AND #12 WIRING.
— В —	GROUND BUS BAR MOUNTED ON WALL
P-001)	CONDUIT DESIGNATION, LETTER INDICATES THUS: P – POWER C – COMMUNICATION G – GROUND TC – TRAIN CONTROL
	PANELBOARD, DISTRIBUTION AND LIGHTING, 480/277V.
—	PANELBOARD, LIGHTING AND APPLIANCE, 208/120V.
	GROUND ROD
$\mathbb{Q}_{s} = \mathbb{Q}_{s}$	CONNECTION TO SIGNAGE, PROVIDE JUNCTION BOX AS REQUIRED. SEE SIGNAGE DRAWINGS FOR MOUNTING AND CONNECTION DETAILS.



B04 - RHODE ISLAND AVENUE STATION ELECTRICAL ABBREVIATIONS & LEGEND

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
086	NONE	B04-E-002	23 of 28



90'-0"						— ₢ OF PIER B1596	
0 0 0	0 0	<u> </u>	0 () 0			
E OF TRACK K OVERHANG 	(TYP) (1)			<u> </u>			
			9 . A		-E-105	-0 [*]	
	EXISTING PRECAST PRESTRESSED CEILING PANEL, TYP.	 Zexisting s PLATFORM PG1L 43'-2" 	√ TATION GIRDER	· · · · · · · · · · · · · · · · · · ·	EE DWG. B04		
	2	EXISTIN	NG STEEL AN $(3)P-15$	GLE,	H H H H H H H H	12'-4 26'-4 40'-6	
EDGE OF TRACK – DECK OVERHANG	(TYP)						
				8		"0 ⁻ [*] ⁴	
<u> </u>	<u> </u>	<u> </u>	o 8'-0"	6'-6"	2'-6'2'-6"		
					2		

SCALE: 3/16"=1'-0"



IEET GENERAL NOTES:

LIGHT FIXTURE SHALL BE 74WATT KIRLIN COMPANY REGRESSED LENS CYLINDER LED CATALOG NUMBER "LSR-09481- 41K-37-80".

CONTRACTOR SHALL CADWELL ALL STRUCTURAL METAL PLATE AND REBAR TO THE EXISTING #4/0 GROUNDING CONDUCTORS.

CONDUIT AND CONDUCTORS SHALL BE (2)#12, (1)#12 GRD IN 3/4" RGS CONDUIT.

CIRCUIT HOMERUNS ARE LABELED WITH THE INDICATED CIRCUIT FROM THE "ORIGINAL CONSTRUCTION AS-BUILT" DRAWINGS OF 1976. CONTRACTOR SHALL FIELD VERIFY CIRCUITS.

SHEET KEYNOTES:

REPLACE ALL LIGHTING FIXTURES AS INDICATED. PROVIDE JUNCTION BOX AT FIXTURE LOCATION FOR MOUNTING OF FIXTURE. MOUNT FIXTURES TO THE UNDERSIDE OF FRP CEILING PANELS.

MOUNT CONDUIT AND JUNCTION BOX ON TOP SIDE OF THE CEILING PANELS.

ROUTE NEW CONDUIT AND CONDUCTORS THROUGH NEW CONCRETE SLAB TO ABOVE TRACK DECK OVERHANG. FINAL CONNECTION TO POWER SUPPLY SHALL BE COMPLETED BY CONTRACTOR.

LEGEND:

WG ;	AMERICAN WIRE GAGE CONDUIT
0	LIGHTING FIXTURE
	CONDUIT



RACT NO.	SCALE	DRAWING NO.	SHEET NO.
3086	3/16" = 1'-0"	B04-E-101	24 of 28



WG ;	AMERICAN WIRE GAGE CONDUIT
0	LIGHTING FIXTURE
	CONDUIT

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
8086	3/16" = 1'-0"	B04-E-102	25 of 28



WG ;	AMERICAN WIRE GAGE CONDUIT
0	LIGHTING FIXTURE
	CONDUIT

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
3086	3/16" = 1'-0"	B04-E-103	26 of 28



0 0	0 0 0	0 0	0	0 0			01020
OF INBOUND (TRK	2) TRACK (TYP)						
GIRDER		RK GUIIER (IYP)			- <u>-</u> - -		
ANGING IXTURE, TYP.—	EDGE OF TRACK DECK OVERHANG	(TYP) 1					
• 38 (39)	•	(41) •	(42)	(43)			4,-0"
					/0.B ∧ 04-E	·	3,-0,*
		- EXISTING ST	ATION PLATFOR GIRDER PG4	RM 4L	23 I.B.		
					Ш Ш Ш		
							-4" -6"
A EXISTING S	STATION PLATFORM GIRDER PG4R				H LINE SE	2'-(12'-4" 26'-4" 40'-6"
EXISTING S	STATION PLATFORM GIRDER PG4R EDGE OF TRACK DECK OVERHANG			2'	MATCH LINE E	2'-(12°-4" 26°-4" 40°-6"
EXISTING	STATION PLATFORM GIRDER PG4R			2'		2'-(A	3'-0" 26'-4" 40'-6"
\square	STATION PLATFORM GIRDER PG4R EDGE OF TRACK DECK OVERHANG		40 (40)	2'		2'-(4 [*] -0" 3 [*] -0" 12 [*] -4" 26 [*] -4" 26 [*] -4" 40 [*] -6"
=	STATION PLATFORM GIRDER PG4R			2'		2'-(4°-0" 3′-0" 12′-4" 26′-4" 40'-6"
A EXISTING S EXISTING S	STATION PLATFORM GIRDER PG4R EDGE OF TRACK DECK OVERHANG			2'		2'-(4 [*] -0" 3 [*] -0" 12 [*] -4" 26 [*] -4"
▲	STATION PLATFORM GIRDER PG4R	39 (TYP)		2'		2'-(4 [*] -0 ^{**} 3 [*] -0 ^{**} 12 [*] -4 ^{**} 26 [*] -4 ^{**}
▲	STATION PLATFORM GIRDER PG4R	(TYP)				2'(4 [°] -0" 3 [°] -0" 12 [°] -4" 26 [°] -4"
$ \begin{array}{c c} $	STATION PLATFORM GIRDER PG4R	39 (TYP)				2'-(4 [*] -0" 3 [*] -0" 12 [*] -4" 26 [*] -4" 40 [*] -6"
$ = \frac{1}{2} $	STATION PLATFORM GIRDER PG4R	(TYP)	40 (40) (4	2'		2'(4°-0" 3°-0" 12'-4" 26'-4" 40'-6"

WG ;	AMERICAN WIRE GAGE CONDUIT
0	LIGHTING FIXTURE
	CONDUIT



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~	5 0	Ç Ü	. 0	0			
K GIRDER						- <u> </u>	
Q OF INE	BOUND (TRK 2) TR	RACK (TYP)					
	TRK	GUTTER (TYP)					
K GIRDER							
	<u> </u>	F		<u> </u>	+		
49	(50)	(51)	(52)	(53)	(54)		* 0
<u>ــــــــــــــــــــــــــــــــــــ</u>				<i>√</i>			
: ·				2	А.: л		
							12°-4 26°-4 40°-6
	– – – – – – – – – – – – – – – – – – –	G E, TYP.	EXISTING STATION PLATFORM GIRDE PG5R	N ER)"	
	– EXISTING HANGIN LIGHTING FIXTURE	G E, TYP.	EXISTING STATION PLATFORM GIRDE PG5R	N ER	2'-0		2'-(12'- 4 26'- 4 12' -4 12' -6
	-EXISTING HANGIN LIGHTING FIXTURE	G E, TYP.	EXISTING STATION PLATFORM GIRDE PG5R	N ER	2'-0		2'-(12'- 12'- 12'- 12'
	-EXISTING HANGIN LIGHTING FIXTURE	G E, TYP.	EXISTING STATION PLATFORM GIRDE PG5R	N ER	2'-0 		4 [*] -0" 3 [*] -0" 12 [*] -4 26 [*] -4 40 [*] -6
	-EXISTING HANGIN LIGHTING FIXTURE	G E, TYP.	EXISTING STATION PLATFORM GIRDE PG5R	$\frac{\Delta}{\sqrt{51}}$	2'-0 		
ов	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. 49 49	EXISTING STATION PLATFORM GIRDE PG5R	N ER (51)	2'-0 		4 , -0, 3 , -0, 4 , -0, 3 , -0, 4 , -6, 1
	-EXISTING HANGIN LIGHTING FIXTURE 48 48 TRACK (TYP)	G E, TYP. 49	EXISTING STATION PLATFORM GIRDE PG5R	N ER △ ~ △ △ △	2'-0 2'-0 52		4 [*] -0 [*] 4 [*] -0 [*] 3 [*] -0 [*] 12 [*] -4 40 [*] -6 40 [*] -6
OB ND (TRK 1	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) (49) TRK GUTTER (TY	EXISTING STATION PLATFORM GIRDE PG5R 50 50 	N ER Δ ~ Δ Δ. (51)	2'-0 		4,-0 ⁿ
OB ND (TRK 1	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) TRK GUTTER (TYP)	EXISTING STATION PLATFORM GIRDE PG5R (50) (5)) (5	N ER Δ Δ Δ. (51)	2'-0 		4, -0, 3, -0, -2, -4
OB DB	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) TRK GUTTER (TYP)	EXISTING STATION PLATFORM GIRDE PG5R	N ER Δ Δ Δ. (51)			4, -0, 3, -0, -2, -4, -0, -2, -2, -4, -0, -2, -2, -4, -0, -2, -2, -4, -0, -2, -2, -4, -0, -2, -2, -4, -0, -2, -2, -4, -0, -2, -2, -2, -2, -4, -0, -2, -2, -2, -2, -2, -2, -2, -2, -2, -2
OB OB OB OB OB OB	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) TRK GUTTER (TY N	EXISTING STATION PLATFORM GIRDE PG5R 50 50 	N ER Δ Δ Δ. (51)			
OB OB ND (TRK 1 OB OB OB OB	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) TRK GUTTER (TY 0 0 8'-0"	EXISTING STATION PLATFORM GIRDE PG5R	N ER Δ ~ Δ Δ. (51) 	2'-0 (52) (52)		
OB OB ND (TRK 1 OB OB OB OB OB OB OB OB OB OB	EXISTING HANGIN LIGHTING FIXTURE	G E, TYP. (49) TRK GUTTER (TY 0 0 8'-0"	EXISTING STATION PLATFORM GIRDE PG5R (50) (50) (50) (50) (50) (50) (50) (50)	N R Δ A (51) 	2'-0 52 6'-6"		

SCALE: 3/16"=1'-0"



SHEET GENERAL NOTES:

1. LIGHT FIXTURE SHALL BE 74WATT KIRLIN COMPANY REGRESSED LENS CYLINDER LED CATALOG NUMBER "LSR-09481- 41K-37-80".

2. CONTRACTOR SHALL CADWELL ALL STRUCTURAL METAL PLATE AND REBAR TO THE EXISTING #4/0 GROUNDING CONDUCTORS.

3. CONDUIT AND CONDUCTORS SHALL BE (2)#12, (1)#12 GRD IN 3/4" RGS CONDUIT.

4. CIRCUIT HOMERUNS ARE LABELED WITH THE INDICATED CIRCUIT FROM THE "ORIGINAL CONSTRUCTION AS-BUILT" DRAWINGS OF 1976. CONTRACTOR SHALL FIELD VERIFY CIRCUITS.

$\langle \# \rangle$ SHEET KEYNOTES:

1. REPLACE ALL LIGHTING FIXTURES AS INDICATED. PROVIDE JUNCTION BOX AT FIXTURE LOCATION FOR MOUNTING OF FIXTURE. MOUNT FIXTURES TO THE UNDERSIDE OF FRP CEILING PANELS.

2. MOUNT CONDUIT AND JUNCTION BOX ON TOP SIDE OF THE CEILING PANELS.

3. ROUTE NEW CONDUIT AND CONDUCTORS THROUGH NEW CONCRETE SLAB TO ABOVE TRACK DECK OVERHANG. FINAL CONNECTION TO POWER SUPPLY SHALL BE COMPLETED BY CONTRACTOR.

LEGEND:

WG ;	AMERICAN WIRE GAGE CONDUIT
0	LIGHTING FIXTURE
	CONDUIT



. В2			
-B04MP08 - 161+00 162+00 		-	- ЦД
VE B04B037 $\xrightarrow{\bullet} B04MP01$ B04B037 $\xrightarrow{\bullet} B04MP02 \xrightarrow{+} & B04B034$ B04B035 B04B036 $\xrightarrow{\bullet} B04MP04$ $\xrightarrow{+} B04MP03$ $\xrightarrow{+} B04MP05$ $\xrightarrow{+} B04MP03$ $\xrightarrow{+} B04MP06$	<u>163+00</u>		MATCHLIN
ACK B1			
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WMATA SURVEY CONTROL							
ID NAME	NORTHING	EASTING	ELEV.	DESCRIPTION			
IB-B-47	395337.8014	800859.1269	139.949	BRASS DISC			
RP IB-B-48	395526.9120	800924.2010	140.413	BRASS DISC			
RP IB-B-50	396372.9809	801197.3069	143.443	BRASS DISC			
RP IB-B-51	396896.4552	801366.3466	149.890	BRASS DISC			
OB-B-70	396917.9680	801392.2340	150.200	BRASS DISC			
B04R001	395755.8871	801033.3542	145.454	BRASS DISC			
B04R002	396334.4592	801217.6409	150.893	BRASS DISC			
B04R047	395767.5046	801009.9109	145.490	BRASS DISC			
RAH2	396341.1570	801196.6830	150.850	BRASS DISC			
B04B034			150.041	BRASS DISC-VERTICAL BENCHMARK			
B04B035			150.022	BRASS DISC-VERTICAL BENCHMARK			
B04B036			149.869	BRASS DISC-VERTICAL BENCHMARK			
B04B037			149.828	BRASS DISC-VERTICAL BENCHMARK			
B04MP01	396003.3122	801090.6576	153.245	MP WALL POINT W/ADAPTER			
B04MP02	396046.1042	801104.4192	151.540	MP WALL POINT W/ADAPTER			
B04MP03	396040.9902	801119.9784	152.131	MP WALL POINT W/ADAPTER			
B04MP04	395998.2338	801106.1010	153.299	MP WALL POINT W/ADAPTER			
B04MP05	395940.1177	801108.1038	146.404	MP WALL POINT W/ADAPTER			
B04MP06	396054.1089	801145.0357	146.974	MP WALL POINT W/ADAPTER			
B04MP07	396171.7388	801124.0149	147.193	MP WALL POINT W/ADAPTER			
B04MP08	395927.8591	801045.4181	146.299	MP WALL POINT W/ADAPTER			
B04M009	395770.2827	801013.8373	151.922	MP WALL POINT W/ADAPTER			
B04M010	395764.4288	801032.0279	152.193	MP WALL POINT W/ADAPTER			
B04M011	396341.4679	801195.8949	151.179	MP WALL POINT W/ADAPTER			
B04M012	396334.2110	801218.5504	151.181	MP WALL POINT W/ADAPTER			
PKB1_15500	395368.2937	800902.6686	139.871	PK NAIL			
PKB1_16550	396364.7506	801237.1306	143.435	PK NAIL			
PKB1_17000	396794.2161	801355.2698	149.721	PK NAIL			
PKB2_15275	395176.4481	800791.1957	139.366	PK NAIL			
PKB2_17000	396799.0053	801334.7984	149.407	PK NAIL			

IORITY	PLATFORM, TRACK DECK SLAB AND CEILING REHABILITATION						
	B04 - RHODE ISLAND AVENUE SURVEY CONTROL						
	SCALE	0 40	DRAWING NO.	SHEET NO.			
DATE		Scale in feet	B04-C-011				



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2	E BRG. UNIT E	CE BRG. UNT F	EL.G	EL. H	EL. J	EL. K	EL. L	EL. W	DIM: N-	DIW: P	DHM: Q.	DIMK R-	DIM: S	DHM: T	EXP: PAD	EXIP: PKD.
	8/6/2-08	2/60/-02	142 66	141.99	197.66	137.16	122.00	118.00	8- 7 2 "	15'-17	/ 9'-6 *	191-6*	/ 9 1 C *	1916*	Type Pees-1	Type PEAP-3
	8 /6/9-08	8/6/0-08	148.97	142.30	157.97	137.47	/19:34	114.84	22-12	18-12	18-0-	22-0"	18-0"	82'-0"	Type PSEB-3	Type PGAP.3
	8/628-08	8/6/9-08	143.29	142.62	/ 38:23	137.79	122.50	118 50	24-92"	15-32	/ g'-& *	/ 9*- &"	/ & -C*	19:4	Type PGEB-3	Type PGAP-3

					A2-	BUILI
VISIONS DESCRIPTION	AT UF COLO	WASHINGTON METROPOLITA	B & O ROUTE			
		HOWARD NEEDLES TAMMEN & BERGENDOFF HIRTTER	DE LEUW CATHER & COMPANY GENERAL ENGINEERING CONSULTANT	PLAN	STRUCTURE	
	2 morese	CONSULTING ENGINEERS	HARRY WEESE & ASSOCIATES. GENERAL ARCHITECTURAL CONSULTANT	SCALE	L BIGI4-18:08; BIG23-1	8:08
	Traditional Linking	SUBMITTED	APPROVED Y. C. Congrocer		B4- 5-264	M39-202

PAD ELEVATIONS									
PIER	UNIT C	UNIT D	UNITE	UNIT F					
BIGOS 18:08	138.99	138.95	138.99	/38.95					
3/6/4 [8:08	139 30	139.26	139.30	139.26					
8/623 18:08	/ 39.68	139.58	139.22	/39.56					





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• AN1-







ANCHOR PIN SCHEDULE									
TYPE	A								
P59 2/	14/2"								
PEAP-2	164"								
PGAP3	18'z "								

EXPANSION BEARING SCHEDULE												
TYPE	8	C	D	Ε	F							
POED-1	16*	204	2*	14.	14**							
P6E8-2	14"	Sof.	34.	3"	2*							
P6E8-3	18"	224	22"	/4"	134"							
P5EB-4	18"	244"	34"	3"	24"							

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TYPE P-I LIGHT FIXTURE SEE DRAWING B4-E-21 FOR LOCATION --

> 344"GRC BETWEEN FIXTURES -

NOTE FOR CONCRETE FINISH AND HANDRAIL DETAILS AT LIGHT FIX TURES SEE DING B4-A-30.

IONS		WASHINGTON METROPOLITA	M ADEA TO
DESCRIPTION	C OF COL	WASHINGIGN MEIROFULITA	HV AREA IRA
	A CORE	HOWARD NEEDLES TAMMEN & BERGENDOFF CONSULTING ENGINEERS HITE	DE LEUW CAT GENERAL EN HARRY WEESE GENERAL AR

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ROOM LESEND	<u> </u>	FI FCTRICAL SYMBOL SCHEDULF) I
	SYNBOL	DESCRIPTION	
JESLATPTION		FLUORESCENT LAMP FIXTURE	1
AC SERVICE FOUNT		INCANDESCENT FIXTURE	
MENS WASH MAM		INCANDESCENT RECESSED CEILING FIXTURE	
ICHENS INISHAMM	•	INCANDESCENT RECESSED MULL FIXTURE	
CORRIDOR	Θ	PARMING LOT LONINAIRE AND POLE	À
CLEANERS AND	51	TOGGLE SWITCH, POLE	
FIRE EQUIPMENT ROOM	SJ	TOGGLE SWITCH, 3 MM	
BELL STETENS ROOM	SP	TOGGLE SWITCH, I POLE WITH PILOT LAMP	â
MANTERNA'E ROOM	Øc	DUPLEY FLUSH RECEPTACLE ISA, 1254 WITH WATERPROOF SPRING COVER	E.
BATTERY ROOM		SMERCENCY BLUE UCHT INCANDESCENT	
COMMUNIC ATTANS MON		EMERGENCY EXIT LIGHT, INCANDESCENT (NIC)	•
DUS DRIVERS ROOM		SURFACE CONDUIT OR CABLE	A
STAIRWAY		BORIED OR CONCEALED CONDUIT	Æ
PRSSAGE FLEWATHE MACHINE RAMA		CONDUCT OR CABLE TURNING AMAY OR DOWN	
		JUNCTION OF PULL BOX	A
	O	MOTOR OUTLET	À
		SPECIAL OUTLET	À
	GRC	GALYARIZED RIGID CURDUIT BITHMINANS FIREP CONDUIT (TYPE T OP TO AS MOTEO)	1
	PYC	POLYYINYL CHLORIDE CONDUIT	4
	CNT	CIRCUIT	æ.
	10	JUNCTION BOX	
	EMA	ELECTRICAL MANHOLE	A
		PHOTO ELECTRIC CONTROL	
NOLE TO ALL ELECTRICAL DIRES		PUBLIC TELEPHONE	
ECTRICAL CONSTRUCTION WORM	M	ALLOY CONDUIT	ĺ
NRCT ALCORDANCE WITH THE O.C. WE.	70-34-	INDICATES INNIBER AND SIZE OF INTRES, SIZE COMDUIT,	À
AL AND EQUIPMENT SHALL BE		A HOME RUN TO PRICE AND BREAKER DESIGNATION	
PES PER NATIONAL ELECTRICAL	KD	ASBESTOS CEMENT CONDUIT (TYPE)	
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	5-4945-5	O) TELFANNE TELFANNE (MYS DANNAME) (MYS) (
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IQNS DESCRIPTION	ET OF COM	WASHINGTON METROPOLITA	
	A CONTRACTOR	HOWARD MEEDLES TAAMEN & BERGENDOFF CONSULTING ENGINEERS MUNITUD	DE LEUW CATI GENERAL ENC HARRY WEESE GENERAL ARC APPROVED

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			LEGEND		•	
DEVICE	DESCRIPTION	DEVICE	DESCRIPTION	DEVICE	DESCRIPTION	
50/51	INSTANTANEOUS / TIME OVERCURRENT PHASE RELAY	WH	A.C. WATT HOUR METER	O	NEON GLOW TUBE HIGH VOLT INDICATOR	
50N/SIN	INSTANTANEOUS / TIME OVERCURRENT GROUND RELAY	RE-1	SUPVRY. CONTROL INTERPOSING RELAY		MOLDED CASE CIRCUIT BREAKER (BOLT IN)	
79	A.C. RECLOSING RELAY	TS	TEST SWITCH	49	TRANSFORMER OVERTEMPERATURE DEVICE,	
96	LOCHOUT DELAY	32	INSTANTANEOUS REVERSE CURRENT	T/ # 2	2 STAGE	
00			RELAY		CONTACTOR	
(7	CURRENT TRANSFORMER		DRAWOUT CIRCUIT BREAKER	·····	DRY TYPE TRANSFORMER - SIZE AS INDICATED	
PT	POTENTIAL TRANSFORMER		↓		UNDER VOLTAGE / OVERVOLTAGE RELAY	1
C	CONTROL (OPEN & CLOSE)- SUPVRY. SYSTEM		DRAWOUT FUSE			
I	INDICATION ONLY-SUPVRY. SYSTEM	↓				
V	A.C. VOLTMETER					
A	A.C. AMMETER	U D	PHASE SELECTOR SWITCH			
	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN	AREA TRANS
DESIGNED	J.E. FELDNER 1/70 DATE NUMBER DESCRIPTION		DATE BY DESCRIPTION			
DRAWN	L.N. KERBER 1/70 B4-E-16 ELECTRICAL DIAGRAMS		9-19-72 C.J.M. ADDED NOTE -6 - PCO-9	15 B		DE LEUW CATHER
	DATE BA-E-1 ELECTRICAL PLAN		11 21.00 THUY I NOTE ADDED PER FIELD CONP. AS. BUILT ON NO. 6002) ?] H	OWARD NEEDLES TAMMEN & BERGENDOFF HNTB	HARRY WEESE & AS
CMECKED	DATE B4-E-24 ELECTRICAL SCHEDULES		A trojaran			GENERAL ARCHITE
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안녕 한 것 위에서

A.C. POWER UNIT NO. I - PANEL "POP" POLES ANP UNIT SERVED NC REMARKS I FEEDER PANEL MAIN BREMER 1280 3 2 MOTOR *2 3 MOTOR *3 30 3 30 A SPACE 50 5 SPARE 50 3 6 MOTOR #21 (ESCALATOR) 50 7 MOTOR #22 (ESCALATOR) 50 3 & MOTOR \$25 30 3 9 MOTOR #26 30 Ŧ 10 CONTACTOR *6 50 3 II Matar #1 3 70 12 PANEL "PO" 225 3 2 13 PANEL THE" 350 3 2 14 PANEL THS 300 3 15 SPARE 225 3 IE SPACE 225 3 IT SPACE 3 225

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NOTE: THIS PARKEL TO OPERATE ON ADDIVETT NOLT, THREE PARSE, FOUR WIRE WITH 1200 AMP MAIN BUS.

		AC. POWER UNIT IN	<u> 1 - PI</u>	MEL "	LDA"
	NC.	UNIT SERVED	POLES	ANP	REMARKS
	1	FEEDER PRNEL MAIN BREMER	3	400	
	Z	SPARE	3	40	n departers music à la président conservancement
MG	3	BATTERY CHARGER	3	100	
	+	MOTOR #32 (ELEMMOR)	3	/#	
	5	MOTOR #19 (ESCHLATOR)	3	50	
	6	MOTOR #20 (ESCALATOR)	3	50	
(T	TRAM CONTROL ROOM TRANSFORMER	3	50	USE ONLY 2 POLES POR
	8	PANEL "RS"	3	225	
	9	SPARE	3	225	
				I	

NOTE THIS PANEL TO OPERATE ON ABOUTETT VOLT, THREE PHASE, FOUR WIRE WITH 400 AMP MAIN BUS

NSIT AUTHORITY HER & COMPANY INEERING CONSULTANT ELECTRICAL SCHEDULES LASSOCIATES TRECTURAL CONSULTANT SCALE DRAMMING NO. NONE 84-E-5

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M39-345

PANEL NO. SMP PANEL TYPE: DI NO. OF CIRCUITS	-A STR. 4 5 - 20	80 V.	: I ∮ 2₩	LOCATION: A-C POWER UNIT 2 MAIN-LUGS ONLY 400 AMPS					
DESCRIPTION	BKR.	CKT.	BU:	S Ng	CKT. NO.	BKR. AMPS	DESCRIPTION		
5-3 24.3A	40A	2			3	404	5-4 25.4A		
5-8 25.4A	40A	4			5	40A	5-10 25.41		
5-13 15.1A	20A	6			7	40A	5-16 27.6A		
5-19- 74.72	40A	8			9	40A	S-77 75.4A		
5-25 24.3A	40A	10			//	40A	SPARE		

PANEL NO. SME PANEL TYPE: DI NO. OF CIRCUITS	-A ISTR: 4 5 - 12	+8 12.1	V. 1 ji 230	LOCATI MAIN-	LUG	A-C. S. OWL	POWER UNIT [#] 2 Y 400 AMPS
DESCRIPTION	BKR	CRT NO.	BU	E. Nge	CKT. NO.	BKR: AMPS	DESCRIPTION
5-32 , 5-33 204 204	504	2			3	50A	5-38 , 5-39 204 204
5-46 , 5-47 991 201	584	4			5	504	5-52 5-53 204 20A
5 -55 26.94	404	6			7	504	SPARE

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									ELECTRICA SNOWMELTING V	YE-DELTA	CONTROL	AS-	BUILT
+SIGNED C	L MITCH	NUMBER	REFERENCE DRAWINGS	DATE	BY	REVISIONS DESCRIPTION		WASHINGTON METROPOL	ITAN AREA TRANSIT AUTHOR	TΥ	B	8-0 ROUTE	
N HAWN		84-E-13 84-E-14 84-E-16	ELECTRICAL PEANS-SNOW MELTING ELECTRICAL PLANS-SNOW MELTING ELECTRICAL DIAGRAMS				M. 6002	HOWARD NEEDLES TAMMEN & BERGENDOFF HINT	DE LEUW CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES		RHODE ISLAN ELECT	ND AVENUE STAT	TION
APPROVED in	DATE	- B4.E-1	A C. POWER SERVICE				THE NAL VALUE	SUBMITTED	GENERAL ARCHITECTURAL CONSULTANT		SCALE NO SCALE	DRAWING NO. B4-E-24	M39-346A

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PANEL NO. SMP-B PANEL TYPE: DISTR. 480 V. IS 2W NO. OF CIRCUITS-20

LOCATION: A-MAIN-LUGS

	040	0.00		2110				
DESCRIPTION	AMPS	NQ.	Pa NC.			NO.	BKR. Amps	DESCRIPTION
5-2 25.4A	101	12				13	404	5-5 25.8A
5-9 24.3A	40A	14				15	40A	5-11 24.7A
5 -14 14.7A	204	16				17	40A	5-17 23.1A
5-20 25.44	40.4	18				19	40A	5-23 24.3A
S-27 24:44	404	20				21	184	SPARE

PANEL NO. SME- PANEL TYPE: DI NO. OF CIRCUITS	8 : ST R: 4 5 - 12	90 V	I M 210 -	LOCAT MAIN	FI ON: -LUGS	
DESCRIPTION	BKR. AMPS	CKT NO.	B	US N _C	CKT	

504

304

5-42 + 5-49 20.7A + 186A

5-54 20A

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*	+
	+
A New N	
C. B. 400A.	CON N

\-	C	POW	E R	UNIT#2
;	ON	ILY	400	AMPS

PANEL NO. SMP-C	LOCATION: A-C POWER UNIT#2
PANEL TYPE: DISTR. 480V. IS 2W	MAIN-LUGS ONLY 400 AMPS
NO. OF CIRCUITS-20	

DESCRIPTION	BKR.	CKT	BUS	Ск	ТВ	KR.	DESCRIPTION
	AMPS	NO.	Se N	A N	a M	MPS	DESCRIPTION
5-1 14.9A	20 A	22	+		3 4	AOA	5-6 25.8A
5-7 24.3A	40A	24			5 4	40A	5-12 25.4A
5-15 27.1A	40A	26			74	OA	5-18 25.4A
5-21 24.7A	40A	28			94	IOA	5-24 25.4A
5-26 24.3A	40A	30			14	40A	SPARE

HC: P ONL	OWER UNIT 2 Y 400 AMPS
BKR.	DESCRIPTION
504	5 -36 , 5- 3 7 204 204
50A	5-50 , 5-51 201 201
50A	SPARE
50A 58A	5-50 5-51 20A 20A SPARE

PANEL NO. SME PANEL TYPE: DIS NO. OF CIRCUITS	-C STR: 4 S-12	80 \		101 1 - LU	N: A-C Igs of	POWER UNIT#2 NLY 400 AMPS
DESCRIPTION	BK R: AMPS	CKT NQ	BUS PC NA	CKT NO.	BKR. AMPS	DESCRIPTION
5-30 5-31 18:6A 18:6A	50A	14		15	50A	5- 34 5-35 20 A 20 A
5-40 + 5-41 16.6A 16.6A	504	16		17	504	5-44 + 5-45 18.6A 19.9A
5-48 + 5-49 20A + 20A	504	18		19	504	SPARE

OPERATION: CONTACTOR 2M1 3M MECHANICALLY INTERLOCKED DELTA CONTROL - IN \$ 3M <u>CLOSED</u> WYE CONTROL - IM \$ 2M <u>CLOSED</u>

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2	`				* *	ų	•	10.15	NO	POLE	LNP	NO.	SIZE	COND		A. ~ \	REN	ARKS
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ł	5	•	* #EC-6		2.0	•	• ,	•	P0-5	• ',	20	· 2	12	274	////	1.12	REQUIRED	
-	7	•	* #SC-7			•	• ',	•	PU-6	. /	20		12	3/4	. MM	1.12	REQUIRED	
•	6	•	• • • • • • • • • • • • • • • • • • •		1.0	•	. /		10-1	. /	20		12	3/4	RM	. 16	♦	
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F	9	FAREGATE B			0.6		/	120	<u>E-17</u>	/	20	2	12	3/4	KIC	ISK		1000
÷	10	ELECTRIC CO	VVECTOR EC-10			_ <u></u>	1/	277	P0-9	. /	20	2	12	3/4	¦ <i>R</i> M	. 10	•	141 - challad-regality
÷	11	•	<i>~EC-//</i>		2.0		. /		. PO-10	. /	,20	2	12	3/4	RA	1.10	• · · · · · · · · · · · · · · · · · · ·	· ·····
-	12	•	EC-12		, 2.0	•	. /	• • •	, R5-7	. /	,20	2	12	3/4	5005	TATION		
1	/]				.20	. —	. /		, RS-8	. /	, 20	. 2	12	3/4	SUBS	TATION	A +	
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	53	ITPICAL FA	RE VENUING MACH	/ NE	1.2	+	<u> /</u>	120	PIAN	/	20	ļ	ļ	-		1	UNDERFLOOR L	DUCT STSTEM
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	LOCATION	DESCRIPTION	- KW	HP	•	VOLTS			T	STARTER	T	FURN	INTER-	ACT-	N N	NIRIN	G	ELECT	REMARKS	
			i l	1			NO	POLE		TYPE	BY		LOCKED	UATING MOTOR	NO.	SIZE COND THER				
1	ABOVE AM. 14	HTG. & VENT. UNIT #HV-1	28.0	1/2	3	480	PDP-11	3	70	NOTEIL	RM. /	MFR.	819	1	3	4	11/4	YES		
2	RM. I	#HV-2	•	10	3	1	POP-2	3	30	NOTE 1		HIG		• · · · · · · · · · · · · · · · · · · ·	3	10	=/4	+		
3	RM.I	*HV-3	•	10	3	11	PDP-3	3	30		+ +	FUNIK	74	24	3	10	13/4	+ +		
4	548-	- HV-4	•	10	3	1	RS-1	3	30	-					3	10	+ 3/4	•	n	
5	RM 14	FLEC CAB UNIT HTR * ECUH-I	6.0	_	3	+ +	AN-97		15		TINIANT	MER	Management fremenage i the i arabitis			12	3/4	+	angenerale of here one is fighter matches per constrained in the second second second second second second second	
<u> </u>	MEZZ.	FIEC CAR UNIT HTR #ECUH-9	+50	•		+	- An- 20	+			+	1	 a - management a localitation or agementable control 	an a	+	12	314	+	an 19 19 19 an ann a	
7	STAIR PLATFORM	ELEC CAR UNIT HTP FECTIN-3	50	•		+ + -	PU 20	5	15			+ + +	eren in antiseter in territorie internet	and the second second of the second se	1-3	16		+	and the two country of the second	
<u> </u>	ABOVE	ELEC. LAD UNIT HIM. ECUM S	9.0	100	5	120	PU-23	3	12		+	TATG				12	74	+		
0	ABOVE	EXMAUST FAN -EF-I	+	14		120	M-20	+ /	20	NOICI	RM . /	CONTR			4	12	-74	• NO †	· · · · · · · · · · · · · · · · · · ·	
3	RM 14		.+	13	÷ /	120	M-21		20	NOTE	R.M. /		i / • · · · · ·	+	2	12	-/4	÷	where a second sec	
10	STATION	- 27-3	+	175		120	* <i>RR-1</i>		- 20	NOTE 2	NR. UNIT			•	2	12	-3/4			
<u>//</u>	STATION	T	+	125	•	120	, RR-1			_ 1	NR. UNI 1		t ▲	↓ 	5	12	3/4	1	ermon i ostro and mico	
12	RM. 2	AIR COND. & HTG. UNIT	4.48	1/4	1	277	P0-18	1	30		IN UNIT	MFR		ŧ L	2	10	3/4	YES		
13	RM. 2		448	1/2	. /		P0-19	/	30						2	10	3/4			
14	RM. 13		4.48	11/2	1		PO-20	1	30			T	I	l	2	10	3/4	1		
15	RM. 7	$\overline{\mathbf{A}}$	332	3/4	1	II ·	PO-21	[/]	30			ĪĪ		T	2	10	3/4	1	and and a short to be an an and a second contract the second second	
16	RM. 7	$\langle \boldsymbol{O} \rangle$	7.20	2	• /		PO-22	1,	50		• t		-	T see see see s	2	÷	1		ант — ст. сило улс ано — сторин они у чи скланийский народной и жиров.	
17	RM.11	(E)	4.80	212	• /		PO-23	t ; -	50		1	+ + +	general and a station of the second s	and a second	2	6	1	+		
18	RM.11	T TE	4.80	21/2	• 1	† 1 -	PO-24	* / ⁻	50	♣ 		+ + ·	• · · · •	• · · · · ·	2	6	1	11		
19	\$! {	ESCALATOR	—	20	3	480	104.5	1 3 -	50	NOTE 5	INPIT	100:T	• • •	†	=	+	+,		WI-S BAR CRIM	
20	FLANS		+	20	3	† Ť	LDA-6		50	T T	Ť	Comm	and the set	ter e ser en	+ 3	4	+',	+		
21	+	+	+	20		+1 -	PARE		60	┿	···+ + · · ··		•		+		+	+	++-	
22	SIE	ESCALATOR (ENTURE)	+	20	+ 2	+	PDD-7		50	+		+ + -	÷	+	1 3		+ .	+		
22	PLANS RM. 6	EJCALAIUN (FUIURE)		20		∳∳	PDF-7			V	1	MER	••••••••••••••••••••••••••••••••••••••				+		↓↓	
23	PLATFORM	ELEL LAD UNIT MIN. "ELUM"4	0.0	· , ,	5		N-22		13	THATE		NTA	• _ ~	-	3	+12	-/4	1785		
24	NM.12	CAMAUSI FAR FEF-S	+	-/-		120	M-22	+	100	1 3101	. K M . /	CONTR	5	24 		12	-/4	NO	MAINS RECEIVED	
25	RM. /	ELEC. UNIT HTREUH-I	72.5	1/6	3	450	PDP-8	3	30	↓ —	•	MFR	•	•	3	. 8	- -/4	1785	No. 16. 10. 10 Addie in Fagers, Andrew Name	
26	: RM./	*EUH-2	12.5	16	3		POP-9	3	30		· · ·	11.	🔶 an a cara	t. I an an an a	3	. 8	-14			
27	STATION	*EUH-3	220	16	3		R5-2	3	40		STATION		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3	8	3/4			
28	STATION	*EUH-4	20.0	16	3		R5-3	3	40		1 1			L	3	8	3/4			
29	SUB- STATION	•EUH-5	12.5	1/6	3		RS-4	3	30		Ţ	II	T and the second s	I	3	10	3/4	· · · · · · · · · · · · · · · · · · ·		
30	STATION	EUH-6	12.5	116	3	TT	R5-5	3	30					Ī	3	10	3/4	• • • • • • • • • • • • • • • • • • •		
31	SUB- STATION	ROLL FILTER " RF-1	1-	1/6	17	120	RR-2	11	20	NOTE /	IN UNIT		Ť	Ţ	2	12	34	1	SOR CONTROLS	
32	ELEX RM.	HANDICAPPED ELEVATOR	1	35	3	480	LDA-4	3	100	NOTE 6	ELEV. RM	FLECT	i i	•	3	6	1	· · · · · · · · · · · · · · · · · · ·		
33	SUB-	ROLL-UP DOOR	1 -	3/4	3	480	R5-9	3	15	NOTE 4	NR UNIT	MFR	1	t	3	12	3/4		SEV GEREICE SEL	
34	RM. //	AIRCOND & HTG UNIT (C)	4.48	11/2	17	211	PO-26	17	30	†	INUNIT	MFR.	ու շատերոնացիչ ամենացի անգ		2	10	3/0	TES		
35	RM I	ROLL FILTER #RF-2		Ve	1	120	M-23	1	20	NOTEI	INUNIT	NFR.	1	t	2	12	3/4	NO	SEE CARES 8.37	
36	RM /	ROLL FILTER #RE-3	+	il.	1	120	M-22	+ <u>·</u>	<u> </u>	NOTEI	INUNIT	MFR			5	12	3/4	NO		
37	500-			2.1/2	+	120	00-11	+	20	ANTE 2	NO INI	r	+	<u> </u>	1	12	1	+	Martin Sur Pallingung	
20	SUE -		+	- /4	⊢ ′∕−	120	00.13	+	20	MOTE 2	NO INT					12	74	+	WT COMPLETIONS	
30	STATION		+	2 1/2		120	AA 35		20	NOTE 2			<u> </u>	<u>↓</u>		112	74	+	MINE SWIACHENNY	
37	MM. 6	AND DOWED		ו /4	<u>⊢ </u>	120	14.23	+	20	MATCA			 	 	1		**		NY COMMESSONS	
ŧU	MM. 6	AIN DATEN		15	├	120	M-26	├	20	NOTEZ		′ 	<u> </u>		2	1/2	**			
	1			1			1											1		
43	ELEY. RM	EXHAUST FAN EF-6		1		208	H-6	2	20		ELEK RM	ELECT.	—		2	12	3/4	YES		
			1	1	1	1	1	1	1	1	1			Î.	1	1	1	1	T	

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	5) CONVECTORS EC-14 / EC+5 (EXISTING) ARE RATED
-	AT 2.0 KW AT 277 VOLTS BUT SHALL BE OPERATED
	AT 208 VOLTS.

NOTES: 1) CIRCUIT BREAKER COMBINATION STARTER NON REVERSING "F" FRAME, THREE OVERLOADS, WITH HAND-OFF-AUTO WITH PILOT LIGHT. 2.)MANUAL STARTER WITH ON-OFF KEY SWITCH.

3) ELECTRIC HEATING COILS TO BE PROVIDED WITH CONTACTORS AND FUSE BLOCKS AS REQUIRED BY COIL MANUFACTURE. 4) CIRCUIT BREAKER COMBINATION STARTER NON REVERSING, THREE OVERLOADS, "J" FRAME WITH ON-OFF KEY SWITCH.

5.) CIRCUIT BREAKER DISCONNECT IN SPECIAL PURPOSE NEMA 12 ENCLOSURE WITH OPERATING HANDLE. MOTORS AND STARTERS FOR ESCALATORS ARE TO BE FURNISHED AND INSTALLED BY OTHERS UNDER ESCALATOR CONTRACT.

GI 6) DISCONNECT SWITCH (FUSED) SHALL BE PROVIDED UNDER THIS CONTRACT. ALL WIRING SHALL TERMINATE IN SWITCH. FUTURE EXTENSION TO ELEVATOR MOTOR SHALL BE BY ELEVATOR CONTRACTOR.

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KING LOT GATE									
IS CRIPTION	STOP CUL	WASHINGTON METROPOLITA	N AREA TRANSIT AUTHORITY		BAO ROUTE				
ELEVATOR, PCO-3 MERGENCY, PCO-7 TING LOT, PCO-21	0 No. 6002	HOWARD NEEDLES TAMMEN & BERGENDOFF CONSULTING ENGINEERS HNTB	DE LEUW CATHER & COMPANY GENERAL ENGINEERING CONSULTANT HARRY WEESE & ASSOCIATES	RHODE ISL	RHODE ISLAND AVENUE STATION ELECTRICAL SCHEDULES				
REVISIONS, PCO-39 ELEVATOR, PCO-47	The second second	SUBMITTED DEShades	APPROVED	SCALE NO SCALE	DRAWING NO B4-E-IO	M39-346			

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(1)3(1) 2 2					(۱X3X1) 2X1X2 RAL NOTES 3	(1X1X1X1) (2X2X2X2) (3X3)	$\langle 1 \times 3 \times 1 \rangle$	
2	1. <u>G</u>	a. THE SCOP	E OF WORK	NCLUDES REPLA	(2) CEMENT OF 64 BE	ARING PADS WITH NCRETE PADS (IF		
R EPLACED		ON 8 PIE	RS, 1 THROUG	G RETROPTITING H 8, AT RHODI AREA.	E ISLAND AVENUE S	TATION. REFER	KEY PLAN FOR	
		 EXISTING 1976. THI TO START 	CONDITIONS S E CONTRACTOR ING THE WORK	HOWN ARE IN A R SHALL FIELD K.	ACCORDANCE WITH A VARIFY ALL NECESS	AS-BUILT DRAWIN ARY INFORMATION	GS DATED MARCH, I SHOWN PRIOR	
		c. THE CONT	RACTOR SHALL	L SUBMIT SHOP	DRAWINGS FOR W	MATA'S REVIEW AI	ND APPROVAL.	
TION		d. PERFORM LINE ANI	SURVEYS AS D GRADE AF	NECESSARY TER BEARING	TO INSURE THAT I REHABILITATION.	RAILS ARE RET	URNED TO DESIGN	21
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Ì.		b. HIGH EARI	Y STRENGTH	FX-742 POLYM	ER CONCRETE, MAN TWO-HOUR COMPR	UFACTURED BY F RESSIVE STRENGTI	OX INDUSTRIES OR	
S.		SHALL BE	USED FOR R	ETROFITTING EX	ISTING CONCRETE P	ADS.	DING CODE	
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		d. USE ELAS	STOMERIC BE	ARING PADS P	ER SPEC. SECTIO	N 3.13A INDICAT	ED AS"FABREEKA"	
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1.2 VERIFY ALL NECESSARY DIMENSIONS SHOWN ON THE DRAWINGS. 1.3 THE CONTRACTOR SHALL DEMONSTRATE, THAT THE EPOXY MYFILLER TO BE USED FOR RETROTING THE CONCEPTE PADE ATTENDES MINITING THE CONCENTE PADE ATTENDES MINITING THE CONCENT PADE OFF STRE AND TESTING 1.4 STIFFEN DIMENSION ON "2, DATA 3 & OM- 4 AT JACKING AND THE- 1.5 INSTALL ACKS AT THE SPECIFIED POSITIONS ON THE PIER CAP 1.6 MINITING THE CONCENT FOR A TAKE AND DEFT MO TIFE FROM THE PIER CAP 1.7 MOTI VERD 2. RETROTIT WORK OURING STIPULATED NON-OPERATING S2-HOUR PERIOD 2.1 NOT USED 2.1 MOTI VERD 2.2 MINITING CARCENARCE UNDER THE AREAL STRUCTURE 2.3 MINITING THE OWNER AND PANDRALES OVER THE AREAL PERSONNEL. 2.3 MINITING THE OWNER AND CARCE SARAPY OF THE WART PERSONNEL. 2.3 MINITING THE OWNER AND RECESSARMY OF THE WART PERSONNEL. 2.3 MINITING THE OWNER AS SPECIFIED INFORMATION OF S-14 10 TO USED 2.1 MOTI USED 2.1 MINITING CARCENT AS SPECIFIED INFORMATIONE S-14 2.1 MINITING CARCENT AS SPECIFIED INFORMATIONE S-14 2.1 MINITING THE CONCENT AS SPECIFIED INFORMATIONE S-14 2.1 MINITING THE CONCENTE FAD SHALL HAVE COLLAPSED HEIGHT NOT TO EXECUTE OWNER SHALL HAVE COLLAPSED 2.1 MINITING CARCENT AS SPECIFIED ADD SHARESED OF SOLED ATTER SUBORY ON THE SHOLL THE EXISTING CONCENTS 2.1 MINITING CARCENT AS SPECIFIED ADD SHARESED OF ACHIEVES 3 MINITING THE CONCENTE FAD SHALL HAVE COLLAPSED HEIGHT NOT TO EXECUTE ADD SHARESE TO DERESSARY 4.2 MINITING THE EXISTING CONCENTS 3 SECURE THE RUMBER AND SHARESE OF THE EXISTING THE SHARE THE SHARE THE SHARE THAN SHARESE ADD ADD SHARESE TERM SHARESE ADD ADD SHARESE TO A CARLEY A MINITING THE CONCENTS ADD ALCON OF THE EXISTING CONCENTS 3 MINITING THE CONCENTS AND ALCON OF THE EXIST ADD AND SHARESE THE SHARE THAN ADD SHARESE THE SHARE THAN ADD SHARESE THE SHARE THA		1.1	ERECT THE ACCESS SCAFFOLD IN FRONT OF THE PIER AND PROVIDE A SECURE WORK PLATFORM AT LEAST 5'-0" WIDE AND DESIGNED FOR A LIVE LOAD OF 250 PSF. THE PLATFORM SHALL BE IN COMPLIANCE WITH APPLICABLE OSHA REQUIREMENTS AND AS APPROVED BY THE AUTHORITY.	
 1.3 THE CONTINUETOR SHALL DEMONSTRATE, THAT THE EPOXY W/FILLER, INSURANCE TO BE STRATTING THE CONCERNENT STRATTING STRATTINGS OF THE THE FREE CONSTRATTING THE CONCERNENT STRATTING STRATTINGS OF THE STRATTING STRATTINGS OF THE STRATTING STRATTINGS OF THE STRATTING STRATTINGS OF THE STRATT STRATTING THE CONCERNENT STRATTING STRATTINGS OF THE STRATT STRATTING THE CONCERNENT STRATTING THE STRATTING THE CONCERNENT STRATTING THE STRATTING THE STRATTING THE STRATTING THE STRATTING THE STRATTING THE STRATT STRATTING THE STRATT STRATTING THE STRATT STRATTING THE STRATT STRATT STRATT STRATT THE STRATT STRATT		1.2	VERIFY ALL NECESSARY DIMENSIONS SHOWN ON THE DRAWINGS.	
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 15. INSTALL LACKS AT THE SPECIFIC POSITIONS ON THE PIER CAP BRACKET CUT CONCARTS TO A ARAMUM DEPTH OF 1F REQUERE FOR JACK INSTALLATION CLEARANCE UNDER THE END DIAPHRAMS. DO NOT CUT REBAR. 21. RETROFIT WORK DURING STIPULATED NON-OPERATING 52-HOUR PERIOD FOR INBOUND GRORE *: 21. NOT USED 22. RETROFIT WORK DURING STIPULATED NON-OPERATING 52-HOUR PERIOD *: SANCTONEZ JACKS FOR EVEN LIFT OF TRACK GRORES. UNSCREW EXISTING THE DOWN NUTS. 23. STACKTONEZ JACKS FOR EVEN LIFT OF TRACK GRORES. UNSCREW EXISTING THE DOWN NUTS. 24. LIFT ONLY ONE END OF TACK GRORES USING TWO ENERPAC. TYPE JACKS OF MINIMUM CAPACITY AS SPECIFIED IN 'NOTES' IN DWG 5-16 CHT TO A MARGINGT OTAL UTION STALLARS SHALT NWTS. 24. LIFT ONLY ONE END OF TACK GRORES USING TWO ENERPAC. TYPE JACKS OF MINIMUM CAPACITY AS SPECIFIED LOCATIONS TO SECURE THE ANSENT STALL ELEPORARY STEEL SUPPORTS AT SPECIFIED LOCATIONS TO SECURE THE ANSENT STALL ELEPORARY STEEL SUPPORTS AT SPECIFIED LOCATIONS TO SECURE THE ANSENT STANLESS STEEL CLODING UNDERSIDE OF SALL PLATE. 25. SCRAPE, AND CLEAN THE CONCRETE PAD BY SAND BLASTING STANLESS STEEL CLODING UNDERSIDE TO ACHEVE A SMOOTH AND SHINING FINISH. 27. SCRAPE, AND CLEAN THE CONCRETE PAD BY SAND BLASTING AND OR WIRE BRUSHING, IF THE EXISTING CONCRETE PAD US CANAGED OR NEEDS AVY REPARABS, REPAR PER CONCRETE PAD BY SAND BLASTING AND OR WIRE BRUSHING, IF THE EXISTING CONCRETE PAD US CANAGED OR NEEDS AVY REPARABS, REPAR PER CONCRETE PAD BY SAND BLASTING AND OR WIRE BRUSHING, IF THE EXISTING CONCRETE PAD US CANAGED OR NEEDS AVY REPARABS, REPAR PER CONCRETE PAD BY SAND BLASTING THE EXISTING STRUCTURE 2.3 BUT AND SOLVENT WERE EXPONDED AND STRUCTURES TO THE SAME ON STRUCTURE THE STRUCTURE PART NEED CONCRETE PAD US TA MANGE OR NEEDS ON STRUCTURE SPECIFICATIONS THE PART NEED OF THE SUBJECT THE STRUCTURE PART NEED CONCRETE PAD SUBFACE TO BE BONDED TO CONCRETE PAD. THE CUT AND EPART THE SAME THE SAME STRUCTURE PART. THE SUBJECA	_	1.4	STIFFEN DIAPHRAGM DM-2, DM-3 & DM-4 AT JACKING AND TEM- PORARY SUPPORT LOCATIONS PER DETAILS SHOWN ON DWG. B4s-S-14	•17
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			scale drawing no. AS NOTED B4s-S-11 M898-2	0

RC	TABLE -1 ROUGH 8: EXISTING ELEVATIONS AND DIMENSIONS						
	T/EXIST. PAD ELEVATIONS (SEE NOTE 1) DIMENSIONS						
L	PAD 🛆 ELEV.	PAD & ELEV.	PAD 🖄 ELEV.	PAD 🛦 ELEV.	A	В	D
3	138.32	138.36	138.32	138.36	3'-3"	1'-9"	5'-6"
3	138.32	138.36	138.32	138.36	3'-3"	1'-9"	5'-6
4	138.63	138.67	138.63	138.67	3'-3"	1'-9"	5'-6"
4	138.63	138.67	138.63	138.67	3'-3"	1'-9"	5'-6"
6	138.95	138.99	138.95	138.99	3'-3"	1'-9"	5'-6"
6	138.95	138.99	138.95	138.99	3'-3"	1'-9"	5'-6"
7	139.26	139.30	139.26	139.30	3'-3"	1'-9"	5'-6"
7	139.26	139.30	139.26	139.30	3'-3"	1'-9"	5'-6"
9	139.58	139.62	139.58	139.62	3'-3"	1'-9"	5'-6"
9	139.58	139.62	139.58	139.62	3'-3"	1'-9"	5'-6"
0	139.22	139.26	139.22	139.26	3'-7"	2' 0"	6'-5"
0	139.22	139.26	139.22	139.26	3'-7"	2'-0"	6'-5"
8	138.19	138.25	138.19	138.27		2. 17/8-	9'-1"
6	138.09	138.09	138.11	138.13		3'-1%	8'-111/2
3	139.88	139.88	139.88	139.88	3'-7"	2'-31/4"	6'-8"
3	139.88	139.88	139.88	139.88	3'-7	2'-31/4"	6'-8"

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NLFAINS					
	REPAIR PROCEDURE				
MILS	APPLY FX-742, HI-MOD GEL (MANUFACTURED BY FOX INDUSTRIES) OR APPROVED EQUAL OVER THE CONCRETE PAD TO ADHERE FABREEKA PAD TO IT. NO CRACK FILLER PER SE IS NEEDED.				
5	1. SHIELD STAINLESS STEEL SURFACE OF SOLE PLATE AND PREPARE TOP SURFACE OF CONCRETE PAD ACCORDING TO RECOMMENDATIONS OF GROUT MATERIAL MANUFACTURER.	M			
	2. VACUUM TO REMOVE FINE PARTICLES OF DUST, SAND OR CEMENT.				
	3. APPLY FX-742 (MANUFACTURED BY FOX INDUSTRIES) OR APPROVED EQUAL PER MANUFACTURER'S SPECIFICATIONS (GROUT).				
OKEN	1. REMOVE SPALLED/BROKEN AND UNSOUND CONCRETE.				
OF	2. SHIELD STAINLESS STEEL SURFACE OF SOLE PLATE AND PREPARE TOP SURFACE OF CONCRETE PAD ACCORDING TO RECOMMENDATIONS OF INJECTION MATERIAL MANUFACTURER.				
	3. COAT THE SURFACE WITH FX-742 OR APPROVED EQUAL.				
	4. SET THE FORMWORK FOR CONCRETE PAD.				
	5. PLACE FX-742 WITH FILLER OR APPROVED EQUAL TO MATCH TOP ELEVATION OF EXISTING CONCRETE PAD.				
EDING	1. REMOVE EXISTING PAD.				
	2. FOLLOW STEPS 2 THRU 5 OF TYPE 3 REPAIR PROCEDURE.				

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L	AS-BUILT						
I certify that this drawing accurately depicts the work as constructed Multiple (18/19)							
President Date CONTRACT NO. GUARINO CORPORATION TT172H							
UTHORITY	RHODE ISLAND AVENUE STATION						
	STRUCTURAL REHABILITATION CONCRETE PAD REPAIRS AND EMERGENCY SHIMMING						
1	SCALE 1-1/2"=1'-0" 0 3" 6" 12" B4s-S-15A M898-24A						

ABBREVIATIONS

€	DUPLEX RECEPTACLE, SURFACE MOUNTED, E INDICATES EXISTING.		AWG CONC. DIA	AMERICAN WIRE CONCRETE DIAMETER
			DN.	DOWN
	NEW INSULATED GROUND CABLE, SIZE #6 A.W.G.		DWG.	DRAWING
	UNLESS OTHERWISE NOTED, INSTALLED IN THE PLATEORM FLOOR LINDER THE PAVER TILES.		ELEC.	ELECTRICAL
	SEE DETAIL-5, DWG.B4s-E-4 AND DETAIL-4,		ELEV.	ELEVATOR
	DWG B4s-E-5		EXISI.	EXISTING
	NEW INSULATED GROUND CABLE, SIZE #4/0 A.W.G,		GNDG.	GROUNDING
•	UNLESS OTHERWISE NOTED, INSTALLED UNDER		GSC.	GALVANIZED STE
	STATION PLATFORM. SEE DETAIL-S, DWG. B4s-E-4.			RIGID CONDUIT
			INF.	INFORMATION
	POINT OF CONNECTION FOR CABLES OF DIFFERENT SIZES	S.	JB	JUNCTION BOX
	CONDUIT OR CABLE TURNING DOWNWARDS OR AWAY.		LT MF77	LIGHT ` ME77ANINE
0	CONDUIT OR CABLE TURNING UPW/RDS OR TOWARDS.		MIN.	MINIMUM
			NTS	NOT TO SCALE
D	DIODAMA AND MAD CASE (EXISTING)		PVC	POLYVINYL CHLO
	DIDITION AND WAR CASE (EXISTING)		KEF. SEJ	STRUCTURAL FX
			JLV.	JOINT
\boxtimes	PLATFORM SHELTER (EXISTING)		REINF.	REINFORCED
	·		STA.	STATION
	WINDSCREEN AND PASSENGER BENCH (EXISTING)		STRUCT.	SIRUCIURAL
للحصية للمصلة			S INDU TEJ	TILE EXPANSION
ዮዋ	PYLON TYPE A-1, WITH LIGHTS. (EXISTING)		TRK	TRACK
6-0			TYP.	TYPICAL
\frown	PYLON TYPE A-2 (NO ELECTRICAL WIRING) (EXISTING)		U.O.N	UNLESS OTHERWI
\checkmark			w/	WITH
	STRUCTURAL COLUMN. (EXISTING)		WWF	WELDED WIRE FA
	TELEPHONE PEDEST/L (EXISTING)		LT FC	LIQUID TIGHT FLEXIBLE CON
T			I.B.	INBOUND
(1)	SECTION IDENTIFICATION: TOP No. IS SECTION NUMBER		0. B .	OUTBOUND
5	AND LOWER No. IS DWG. SHOWN ON.		RM	ROOM
26	NEW NON-METALLIC JUNCTION BOX TO SERVE S – 5 LT OR INFRARED HEATERS. NUMBER SUBSCRIPT IS J.B. NUMBER.			
CT	NEW FIBERGLASS CABLE TRAY			
⊢−ст −−	END OF CABLE TRAY			
				-
P-14	CIRCUIT HOMERUNS TO PANELBOARDS. WIRE			
▲ ▲	AND CONDUIT SIZES NOTED ARE TYPICAL FOR			
	ENTIRE LENGTH OF CIRCUITS.			
	EL DESIGNATION			-
PAN	LL JLJIVNAI IVN			•
	RELOCATED TYDE S-5 IT MIMDED SUDECDIDT			
	DENOTES CIRCUIT NUMBER			
14				
· []	RELOCATED INFRARED HEATER			
	REFERENCE DRAWINGS			REVISIONS
DESIGNED D.VANCOTT	4-93 NUMBER DESCRIPTION	DATE	BY	DESCRIPTION
DRAWNA W.MASSEY	4-93			
D GLEN ATA	DATE 4-93			
CHECKED				
APPROVED R.GANERIWAL T	DATE			
•		-		

SYMBOLS

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IRE GAUGE	1.	ALL WORK SHALL COMPLY WITH THE NATIONAL ELECT CODE AND THE REQUIREMENTS OF ALL LOCAL CODES REGULATIONS OF AUTHORITIES HAVING JURISDICTION THE WORK.
STEEL NT	2.	THE CONTRACTOR SHALL CAREFULLY EXAMINE ALL CONTRACT DRAWINGS/SPECIFICATIONS AND BE RESPO FOR THE PROPER FITTING OF MATERIALS AND EQUIP EACH LOCATION AS INDICATED. INASMUCH AS THE DE ARE GENERALLY DIAGRAMMATIC AND BECAUSE OF THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO IN ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY REQUIRED. FURNISHING SUCH FITTINGS AND ACCESSO AS MAY BE REQUIRED TO MEET SUCH CONDITIONS S BE AT NO ADDITIONAL COST TO THE AUTHORITY.
on Box	3.	THE CONTRACTOR SHALL EXAMINE THE SITE AND OBSTHE CONDITION UNDER WHICH THE WORK WILL BE DOR OTHER CIRCUMSTANCES WHICH WILL AFFECT THE
	•	
LE HLORIDE EXPANSION	4.	THE CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZ AND EXTENT OF ALL EXISTING UTILITIES, OBSTRUCTION AND/OR OTHER CONDITIONS WHICH MAY AFFECT THE PROPOSED WORK UNDER THE PROJECT. THE CONTRA SHALL TAKE EVERY PRECAUTION TO PREVENT DAMAGE EXISTING WORK AND SHALL REPAIR ANY DAMAGE AS RESULT OF THIS WORK AT NO ADDITIONAL COST TO THE AUTHORITY.
ON JOINT	5.	THE CONTRACTOR SHALL COORDINATE ELECTRICAL WO WITH OTHER TRADES.
RWISE	6.	UNLESS OTHERWISE NOTED, MINIMUM CONDUCTOR SIZ NO. 12 AWG. AND MINIMUM CONDUIT SIZE IS 3/4".
FABRIC IT CONDUIT	7.	DRAWINGS SHOW EXISTING CONDITIONS UNLESS OTHER NOTED. FOR DETAILS SEE ELECTRICAL INF. DWGS. LIS ON DWG. B4s-G-1.



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NOTES:

NEW GROUNDING CONNECTION SHALL BE MADE TO STEEL 1. FRAME I" MINIMUM BELOW THE MORTAR BED UNLESS OTHER WISE SHOWN.

- ATTACH # 4/0 AWG GNDG. CABLE TO EXISTING CHANNEL 2. INSERTS EVERY 4'-0".
- WRAP WELDED JOINTS AND COMPRESSION CONNECTORS 3. WITH THREE LAYERS OF PLASTIC TAPE AND FINAL LAYER OF RUBBER TAPE.
- FOR INSTALLING #6 AWG GNDG CABLE WHERE OVERLAY IS REPLACED, SEE DETAIL 6. WHERE OVERLAY IS NOT REPLACED, SEE DETAIL 4 ON DWG. B4s-E-5. (SEE DWG. **B4s-S-8)**.

NOTES: AS BUILT (I) SEE DWG. B4s-E-3 FOR LOCATION.

	I Preside	AS-BUILT certify that this drawing accura depicts the work as constructed Manufactors of GUARINO CORPORATION	tely ed <u>//////8</u> Date	CONTRACT NO.	
				7	Т172Н
TY		RHODE ISLAN STRUCTURA ELECTR SH	ID AVENU L REHABII NICAL DET HEET 2	E STAT LITATIO AILS	rion N
	SCALE	NOT TO SCALE	DRAWING NO. B4s - E	- 4	M898- 28

- GRAPHIC PANEL (TYP)

PYLON BODY SHELL

- GRANITE APRON (TYP) TO BE REMOVED & REINSTALLED SEE STRUCTURAL NOTE I ON DWG. B4s-S-8

- EXPANSION JOINT - PAVER TILE (TYP) MORTAR BED -. . . . 0.70.0 NEW #6 AWG GROUNDING CABLE TO NEW # 4/0 GROUND CABLE, SEE DETAIL 5 8 NOTE 4



OUTBOUN	ID TRACK B1		1		HOR	RIZONTAL G				1	1	1	1
ELEMENT DESC.	BEARING	STATION	NORTHING	EASTING	RADIUS	LENGTH	DELTA	Dc	С	т	V	Ea	Eu
L-48	N39° 22' 43.20"E	123+19.72	392524.0877	799797.7344		798.33							
S-49A		131+18.05	393141.1712	800304.2278		300.00	10°44'34.65"						
C-49		134+18.05	393384.1142	800479.4357	800	313.15	22°25'38.70"	7° 09' 43.10"	311.15	158.60	45 MPH	6"	4.15"
S-49B		137+31.20	393680.9907	800572.5964		300.00	10°44'34.65"						
L-50	N4° 32' 04.80"W	140+31.20	393980.4807	800567.6054		239.70							
S-51A		142+70.90	394219.4305	800548.6541		300.00	8°59'57.61"						
C-51		145+70.90	394518.9940	800540.6240	955	279.00	16°44'20.09"	5° 59' 58.41"	278.01	140.50	50 MPH	6"	4.50"
S-51B		148+49.90	394790.0598	800602.3784		300.00	8°59'57.61"						
L-52	N30° 12' 10.52"E	151+49.90	395056.5833	800739.3750		74.97							
S-53A		152+24.87	395121.3731	800777.0880		200.00	3°49'10.99"						
C-53		154+24.87	395296.3812	800873.8162	1500	122.36	4°40'25.38"	3° 49' 10.99"	122.32	61.21	50 MPH	4"	2.68"
S-53B		155+47.23	395408.0892	800923.6601		200.00	3°49'10.99"						
L-54	N17° 53' 23.16"E	157+47.23	395596.9697	800989.2983		838.64							
S-55A		165+86.19	396395.0604	801246.9172		100.00	0°44'59.80"						
C-55		166+86.19	396490.3577	801277.2202	3820	133.35	2°00'00.15"	1° 29' 59.60"	133.34	66.68	55 MPH	2"	1.18"
S-55B		168+19.53	396618.4414	801314.2860		100.00	0°44'59.80"						
L-56	N14° 23' 23.41"E	169+19.53	396715.1941	801339.5600		89.51							
S-57A		170+09.04	396801.8941	801361.8044		120.00	0°53'59.76"						
C-57		171+29.04	396917.9703	801392.2344	3820	113.35	1°42'00.27"	1° 29' 59.60"	113.34	56.68	60 MPH	2.25"	1.53"
S-57B		172+42.39	397026.8456	801423.7416		120.00	0°53'59.76"						
L-58	N17° 53' 23.20"E	173+62.39	397141.2337	801460.0052		359.50							

OUTBOUND	TRACK B1			CURVE DAT	Ā				
CURVE #	PIC STATION	RADIUS	LENGTH	DELTA	TANGENT	MID ORDINATE	SPEED	Ea	Eu
C-49	135+76.66	800	313.15	22°25'38.70"	158.60	15.27	45 MPH	6"	4.15"
C-51	147+11.40	955	279.00	16°44'20.09"	140.50	10.17	50 MPH	6"	4.50"
C-53	154+86.08	1500	122.36	4°40'25.38"	61.21	1.25	50 MPH	4"	2.68"
C-55	167+52.86	3820	133.35	2°00'00.15"	66.68	0.58	55 MPH	2"	1.18"
C-57	171+85.72	3820	113.35	1°42'00.27"	56.68	0.42	60 MPH	2.25"	1.53"

OUTBOUN	D TRACK B	1		SPIRA	L DATA				
SPIRAL #	STATION	Θs	Х	Y	Р	К	LT	ST	LS
S-49A	131+18.05	10°44'34.7"	298.95	18.70	4.68	149.82	200.37	100.34	300.00
S-49B	137+31.20	10°44'34.7"	298.95	18.70	4.68	149.82	200.37	100.34	300.00
S-51A	142+70.90	8°59'57.6"	299.26	15.68	3.92	149.88	200.26	100.24	300.00
S-51B	148+49.90	8°59'57.6"	299.26	15.68	3.92	149.88	200.26	100.24	300.00
S-53A	152+24.87	3°49'11.0"	199.91	4.44	1.11	99.99	133.36	66.69	200.00
S-53B	155+47.23	3°49'11.0"	199.91	4.44	1.11	99.99	133.36	66.69	200.00
S-55A	165+86.19	0°44'59.8"	100.00	0.44	0.11	50.00	66.67	33.33	100.00
S-55B	168+19.53	0°44'59.8"	100.00	0.44	0.11	50.00	66.67	33.33	100.00
S-57A	170+09.04	0°53'59.8"	120.00	0.63	0.16	60.00	80.00	40.00	120.00
S-57B	172+42.39	0°53'59.8"	120.00	0.63	0.16	60.00	80.00	40.00	120.00

HORIZONTAL GEOMETRY DATA OUTBOUND TRACK B1 B04-TW-001

REFERENCE DRAWINGS REVISIONS DATENUMDESCRIPTION12/08/2017APRE-FINAL CONTRACT DRAWINGS TITLE NUMBER DESIGNED R. WALKER 01/17/2018 DATE 01/17/2018 B FINAL CONTRACT DRAWINGS 01/17/2018 DATE S. HICKS DRAWN CHECKED F. BLACHLY 01/17/2018 DATE

INBOUND -	TRACK B2				HOR	IZONTAL GE	EOMETRY D	АТА					
ELEMENT DESC.	BEARING	STATION	NORTHING	EASTING	RADIUS	LENGTH	DELTA	Dc	С	т	V	Ea	Eu
L-45	N21° 30' 23.07"E	132+72.27	393475.4764	800012.7537		862.29							
S-46A		141+34.56	394277.7313	800328.8740		250.00	2°26'54.74"						
C-46		143+84.56	394508.9775	800423.8214	2925	193.97	3°47'58.31"	1° 57' 31.79"	193.93	97.02	70 MPH	5"	1.72"
S-46B		145+78.53	394683.4991	800508.3941		250.00	2°26'54.74"						
L-47	N30° 12' 10.85"E	148+28.53	394901.3130	800631.0601		119.19							
S-48A		149+47.72	395004.3262	800691.0225		200.00	3°17'34.30"						
C-48		151+47.72	395179.0458	800788.2918	1740	177.66	5°51'00.66"	3° 17' 34.30"	177.59	88.91	55 MPH	4"	2.97"
S-48B		153+25.39	395341.2970	800860.4800		192.55	3°10'12.73"						
L-49	N17° 53' 23.17"E	155+17.94	395523.3903	800922.9896		933.36							
S-350A		165+90.58	396411.6247	801209.7063		100.00	0°00'20.63"						
C-350		166+90.58	396506.7886	801240.4281	500000	16.84	0°00'06.95"	0° 00' 41.25"	16.84	8.42	55 MPH	0"	0.02"
S-350B		167+07.42	396522.8118	801245.6024		100.00	0°00'20.63"						
L-51	N17° 54' 11.36"E	168+07.42	396617.9706	801276.3401		84.00							
S-352A		168+91.42	396697.9041	801302.1628		100.00	0°00'20.63"						
C-352		169+91.42	396793.0628	801332.9005	500000	16.35	0°00'06.74"	0° 00' 41.25"	16.35	8.18	65 MPH	0"	0.03"
S-352B		170+07.77	396808.6217	801337.9249		100.00	0°00'20.63"						
L-53	N17° 53' 23.37"E	171+07.77	396903.7856	801368.6468		614.22							

INBOUND TF	RACK B2			CURVE DAT	A				
CURVE #	PIC STATION	RADIUS	LENGTH	DELTA	TANGENT	MID ORDINATE	SPEED	Ea	Eu
C-46	144+81.58	2925	193.97	3°47'58.31"	97.02	1.61	70 MPH	5"	1.72"
C-48	152+36.63	1740	177.66	5°51'00.66"	88.91	2.27	55 MPH	4"	2.97"
C-350	166+99.00	500000	16.84	0°00'06.95"	8.42	0.00	55 MPH	0"	0.02"
C-352	169+99.60	500000	16.35	0°00'06.74"	8.18	0.00	65 MPH	0"	0.03"

INBOUND -	TRACK B2			SPIRA	L DATA				
SPIRAL #	STATION	Θs	Х	Y	Р	К	LT	ST	LS
S-46A	141+34.56	2°26'54.7"	249.95	3.56	0.89	124.99	166.68	83.35	250.00
S-46B	145+78.53	2°26'54.7"	249.95	3.56	0.89	124.99	166.68	83.35	250.00
S-48A	149+47.72	3°17'34.3"	199.93	3.83	0.96	99.99	133.36	66.69	200.00
S-48B	153+25.39	3°10'12.7"	192.49	3.55	0.89	96.27	128.39	64.20	192.55
S-350A	165+90.58	0°00'20.6"	100.00	0.00	0.00	50.00	66.67	33.33	100.00
S-350B	167+07.42	0°00'20.6"	100.00	0.00	0.00	50.00	66.67	33.33	100.00
S-352A	168+91.42	0°00'20.6"	100.00	0.00	0.00	50.00	66.67	33.33	100.00
S-352B	170+07.77	0°00'20.6"	100.00	0.00	0.00	50.00	66.67	33.33	100.00

B04-TW-001

									- DC REGISTER SECTION 1516
M metro	WASHINGTON	METROPOLITA	N AREA TRANSIT AUTHO	ORITY		PLATFORM, T	RACK DECK SLA	AB AND CEILING R	EHABILITATION
	OFFIC	E OF DESIGN AN IRPG - FIXED F	D CONSTRUCTION ACILITIES			TRACKS B1	B04 - RHODE AND B2 - HORIZ	ISLAND AVENUE ONTAL ALIGNMEN	IT GEOMETRY
	Jan C rg	01/17/2018	1 aux 1	01/17/2018	M NO.	CONTRACT NO.	SCALE	DRAWING NO.	SHEET NO.
JOHN PUR ENGINEER	RDY RING MANAGER		PATRICK PORZILLO ENGINEER OF RECORD		M 1302	FQ18086	N/A	B04-TW-001	1 of 11

1. HORIZONTAL GEOMETRY PROVIDED BY WMATA, 12–12–2017. PCAR B4–1, 1973 FOR THE OUTBOUND TRACK

PUAR	B4-I,	1973	FUR	THE U	TROOND	IRAUK
PCAR	B4-3-	1, 19	75 F(DR THE	INBOUND	TRACK.

\frown	HORIZONTAL GEOMETRY DATA
(2)	INBOUND TRACK B2

"PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DUI Y LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS
★ Image: Civil Ending All of the District of Columbia." Civil Ending OF THE DISTRICT OF COLUMBIA." LICENSE No. 908196 EXPIRATION DATE: 08/31/18 - DC REGISTER SECTION 1516





$$\begin{array}{c}
 1 \\
 B04-PP-102 \\
 SCALE: 1" = 40
\end{array}$$

PATRICK PORZILLO JOHN PURDY M 1302 FQ18086 ENGINEERING MANAGER ENGINEER OF RECORD



20 0 20 40 60 SCALE: 1'' = 40'

	LITAN AREA TRANSIT AUTHORITY		PLATFOR
 OFFICE OF DESIG	N AND CONSTRUCTION		
IRPG - FIX	ED FACILITIES		
01/17/2018	01/17/2018	M NO.	CONTRACT NO
JOHN PURDY ENGINEERING MANAGER	PATRICK PORZILLO ENGINEER OF RECORD	M 1302	FQ18086

NOTES:

- 1. HORIZONTAL GEOMETRY PROVIDED BY WMATA 12/12/17. PCAR B4-1, 1973 FOR THE OUTBOUND TRACK. PCAR B4-3-1, 1975 FOR THE INBOUND TRACK.
- 2. SEE DWG B4-TW-001 FOR HORIZONTAL GEOMETRY DATA.
- 3. SEE DWG B4-PP-203 FOR VERTICAL TRACK PROFILE.
- 4. NO PROPOSED WORK THIS SHEET. ALIGNMENT SHOWN FOR INFORMATION ONLY.



B04 - RHODE ISLAND AVENUE TRACK PLAN - STA 169+50 TO STA 175+00

10.	SCALE	DRAWING NO.	SHEET NO.
	1" = 40'	B04-PP-103	4 of 11



ENGINEER OF RECORD

ENGINEERING MANAGER

)		
		-200
		- 195
		-190
		- 185
		_190
		175
		- 175
		-170
		- 165
		—160
		- 155
		—150
		- 145
		- 135
		—130
	57+	- 125
		-120
		- 115
.54	.47 	_110
141	141 141 141 141 141 141	105
5	o 50	-100
_	156+00 158	+00

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
8086	1" = 40' H, 1" = 10' V	B04-PP-201	5 of 11



ENGINEERING MANAGER

ENGINEER OF RECORD

RACT NO.	SCALE	DRAWING NO.	SHEET NO.
8086	1" = 40' H, 1" = 10' V	B04-PP-202	6 of 11



NOTES:

- HORIZONTAL GEOMETRY PROVIDED BY WMATA, 12/12/17.
 PCAR B4-1, 1973 FOR THE OUTBOUND TRACK.
 PCAR B4-3-1, 1975 FOR THE INBOUND TRACK.
- 2. CONTRACTOR SHALL COORDINATE TRACKWORK WITH OTHER DISCIPLINES.
- 3. NO PROPOSED WORK THIS SHEET. ALIGNMENT SHOWN FOR INFORMATION ONLY.
- 4. TRACK REHABILITATION TO RESTORE TRACK VERTICALLY TO THE PROFILES SHOWN ON B4-PP-1 (M39-037) THRU B4-PP-6 (M37-042) AS MODIFIED BY PCAR B4-2, 1973. ADJUST THE VERTICAL TRACK PROFILE TO PCAR PROFILE WITH OUTBOUND TRACK RAISED ONE INCH WITHIN THE PLATFORM AREA AND INBOUND TRACK PROFILE RAISED TO MATCH THE OUTBOUND TRACK.



RACT NO.	SCALE	DRAWING NO.	SHEET NO.
086	1" = 40' H, 1" = 10' V	B04-PP-203	7 of 11

STATION	LEFT RAIL		RIGHT RAIL				LEFT RAIL RIGHT				RIGHT RAIL			
	TOP OF RAIL	TOP OF GROUT PAD	PGL	TOP OF RAIL	TOP OF GROUT PAD	SUPERELEVATION	STATION	TOP OF RAIL	TOP OF GROUT PAD	PGL	TOP OF RAIL	TOP OF GROUT PAD	SUPERELEVATION	
58+00.00	1/1 86	1/1 16	1/1 86	1/1.86	1/1 16	0.00	162+00.00	1/13.26	1/2 56	1/13 26	1/3.26	1/2 56	0.00	
158+10.00	141.90	141.10	141.80	141.00	141.10	0.00	162+10.00	143.30	142.50	143.30	143.30	142.60	0.00	
158+20.00	141.93	141.23	141.93	141.93	141.23	0.00	162+20.00	143.33	142.63	143.33	143.33	142.63	0.00	
158+30.00	141.97	141.27	141.97	141.97	141.27	0.00	162+30.00	143.37	142.67	143.37	143.37	142.67	0.00	
58+40.00	142 00	141 30	142 00	142 00	141.30	0.00	162+40 00	143.40	142 70	143 40	143.40	142 70	0.00	
58+50.00	142.00	141.30	142.00	142.00	141.30	0.00	162+50.00	143.44	142.70	143.40	143.44	142.70	0.00	
58+60 00	142.04	1/1.34	142.04	142.04	1/1.34	0.00	162+60.00	143.44	142.74	1/3/7	143.44	142.74	0.00	
58±70.00	142.07	141.37	142.07	142.07	141.57	0.00	162+70.00	143.47	142.77	143.47	143.47	142.77	0.00	
50+70.00	142.11	141.41	142.11	142.11	141.41	0.00		143.51	142.01	143.51	143.51	142.01	0.00	
	142.14	141.44	142.14	142.14	141.44	0.00	162+00.00	143.54	142.04	143.04	143.54	142.04	0.00	
0+90.00	142.18	141.40	142.18	142.18	141.48	0.00	162+90.00	143.58	142.00	143.00	143.58	142.00	0.00	
	142.21	141.51	142.21	142.21	141.51	0.00	163+00.00	143.01	142.91	143.01	143.61	142.91	0.00	
9+10.00	142.25	141.55	142.25	142.25	141.55	0.00	163+10.00	143.65	142.95	143.65	143.65	142.95	0.00	
+20.00	142.28	141.58	142.28	142.28	141.58	0.00	163+20.00	143.68	142.98	143.68	143.68	142.98	0.00	
+30.00	142.32	141.62	142.32	142.32	141.62	0.00	163+30.00	143.72	143.02	143.72	143.72	143.02	0.00	
+40.00	142.35	141.65	142.35	142.35	141.65	0.00	163+40.00	143.75	143.05	143.75	143.75	143.05	0.00	
9+50.00	142.39	141.69	142.39	142.39	141.69	0.00	163+50.00	143.79	143.09	143.79	143.79	143.09	0.00	
+60.00	142.42	141.72	142.42	142.42	141.72	0.00	163+60.00	143.82	143.12	143.82	143.82	143.12	0.00	
9+70.00	142.46	141.76	142.46	142.46	141.76	0.00	163+70.00	143.86	143.16	143.86	143.86	143.16	0.00	
9+80.00	142.49	141.79	142.49	142.49	141.79	0.00	163+80.00	143.89	143.19	143.89	143.89	143.19	0.00	
59+90.00	142.53	141.83	142.53	142.53	141.83	0.00	163+90.00	143.93	143.23	143.93	143.93	143.23	0.00	
60+00.00	142.56	141.86	142.56	142.56	141.86	0.00	164+00.00	143.96	143.26	143.96	143.96	143.26	0.00	
0+10.00	142.60	141.90	142.60	142.60	141.90	0.00	164+10.00	144.00	143.30	144.00	144.00	143.30	0.00	
0+20.00	142.63	141.93	142.63	142.63	141.93	0.00	164+20.00	144.03	143.33	144.03	144.03	143.33	0.00	
0+30.00	142.67	141.97	142.67	142.67	141.97	0.00	164+30.00	144.07	143.37	144.07	144.07	143.37	0.00	
)+40.00	142.70	142.00	142.70	142.70	142.00	0.00	164+40.00	144.10	143.40	144.10	144.10	143.40	0.00	
)+50.00	142.74	142.04	142.74	142.74	142.04	0.00	164+50.00	144.14	143.44	144.14	144.14	143.44	0.00	
)+60.00	142.77	142.07	142.77	142.77	142.07	0.00	164+60.00	144.17	143.47	144.17	144.17	143.47	0.00	
0+70.00	142.81	142.11	142.81	142.81	142.11	0.00	164+70.00	144.21	143.51	144.21	144.21	143.51	0.00	
)+80.00	142.84	142.14	142.84	142.84	142.14	0.00	164+80.00	144.24	143.54	144.24	144.24	143.54	0.00	
0+90.00	142.88	142.18	142.88	142.88	142.18	0.00	164+90.00	144.28	143.58	144.28	144.28	143.58	0.00	
1+00.00	142.91	142.21	142.91	142.91	142.21	0.00	165+00.00	144.31	143.61	144.31	144.31	143.61	0.00	
+10.00	142.95	142.25	142.95	142.95	142.25	0.00	165+10.00	144.35	143.65	144.35	144.35	143.65	0.00	
+20.00	142.98	142.28	142.98	142.98	142.28	0.00	165+20.00	144.38	143.68	144.38	144.38	143.68	0.00	
·30.00	143.02	142.32	143.02	143.02	142.32	0.00		1						
40.00	143.05	142.35	143.05	143.05	142.35	0.00								
+50.00	143.09	142.39	143.09	143.09	142.39	0.00								
+60.00	143.12	142.42	143.12	143.12	142.42	0.00								
+70.00	143.16	142.46	143.16	143.16	142.46	0.00								
+80.00	143.19	142.49	143.19	143.19	142.49	0.00								
		440.50	1/3 23	1/3 23	140.50	0.00								

				REFERENCE DRAWINGS	REVISIONS			
DESIGNED	R. WALKER	01/17/2018	NUMBER	TITLE	DATE	NUM	DESCRIPTION	
		DATE			12/08/2017	А	PRE-FINAL CONTRACT DRAWINGS	
	S. HICKS	CKS 01/17/2018 DATE			01/17/2018	В	FINAL CONTRACT DRAWINGS	
DRAWN								
CHECKED	F. BLACHLY	01/17/2018						
ONEONED		DATE						



B04 - RHODE ISLAND AVENUE STATION INBOUND TRACK - TABLE OF ELEVATIONS

10.	SCALE	DRAWING NO.	SHEET NO.
	NONE	B04-TW-501	8 of 11

STATION	LEFT RAIL		RIGHT RAIL				LEFT RAIL		RIC	RIGHT RAIL				
		TOP OF GROUT PAD	PGL	TOP OF RAIL	TOP OF GROUT PAD	SUPERELEVATION	STATION	TOP OF RAIL	TOP OF GROUT PAD	PGL	TOP OF RAIL	TOP OF GROUT PAD	SUPERELEVATION	
158+00.00	141.86	141 16	141 86	141.86	141 16	0.00	162+00.00	143.26	142 56	143.26	143.26	142 56	0.00	
158+10.00	141.90	141.20	141.90	141.90	141.20	0.00	162+10.00	143.30	142.60	143.30	143.30	142.60	0.00	
158+20.00	141.93	141.23	141.93	141.93	141.23	0.00	162+20.00	143.33	142.63	143.33	143.33	142.63	0.00	
158+30.00	141.97	141.27	141.97	141.97	141.27	0.00	162+30.00	143.37	142.67	143.37	143.37	142.67	0.00	
158+40.00	142.00	141.30	142.00	142.00	141.30	0.00	162+40.00	143.40	142.70	143.40	143.40	142.70	0.00	
158+50.00	142.04	141.34	142.04	142.04	141.34	0.00	162+50.00	143.44	142.74	143.44	143.44	142.74	0.00	
158+60.00	142.07	141.37	142.07	142.07	141.37	0.00	162+60.00	143.47	142.77	143.47	143.47	142.77	0.00	
158+70.00	142.11	141.41	142.11	142.11	141.41	0.00	162+70.00	143.51	142.81	143.51	143.51	142.81	0.00	
158+80.00	142.14	141.44	142.14	142.14	141.44	0.00	162+80.00	143.54	142.84	143.54	143.54	142.84	0.00	
58+90.00	142.18	141.48	142.18	142.18	141.48	0.00	162+90.00	143.58	142.88	143.58	143.58	142.88	0.00	
159+00.00	142.21	141.51	142.21	142.21	141.51	0.00	163+00.00	143.61	142.91	143.61	143.61	142.91	0.00	
159+10.00	142.25	141.55	142.25	142.25	141.55	0.00	163+10.00	143.65	142.95	143.65	143.65	142.95	0.00	
59+20.00	142.28	141.58	142.28	142.28	141.58	0.00	163+20.00	143.68	142.98	143.68	143.68	142.98	0.00	
159+30.00	142.32	141.62	142.32	142.32	141.62	0.00	163+30.00	143.72	143.02	143.72	143.72	143.02	0.00	
159+40.00	142.35	141.65	142.35	142.35	141.65	0.00	163+40.00	143.75	143.05	143.75	143.75	143.05	0.00	
159+50.00	142.39	141.69	142.39	142.39	141.69	0.00	163+50.00	143.79	143.09	143.79	143.79	143.09	0.00	
159+60.00	142.42	141.72	142.42	142.42	141.72	0.00	163+60.00	143.82	143.12	143.82	143.82	143.12	0.00	
159+70.00	142.46	141.76	142.46	142.46	141.76	0.00	163+70.00	143.86	143.16	143.86	143.86	143.16	0.00	
159+80.00	142.49	141.79	142.49	142.49	141.79	0.00	163+80.00	143.89	143.19	143.89	143.89	143.19	0.00	
159+90.00	142.53	141.83	142.53	142.53	141.83	0.00	163+90.00	143.93	143.23	143.93	143.93	143.23	0.00	
160+00.00	142.56	141.86	142.56	142.56	141.86	0.00	164+00.00	143.96	143.26	143.96	143.96	143.26	0.00	
160+10.00	142.60	141.90	142.60	142.60	141.90	0.00	164+10.00	144.00	143.30	144.00	144.00	143.30	0.00	
160+20.00	142.63	141.93	142.63	142.63	141.93	0.00	164+20.00	144.03	143.33	144.03	144.03	143.33	0.00	
160+30.00	142.67	141.97	142.67	142.67	141.97	0.00	164+30.00	144.07	143.37	144.07	144.07	143.37	0.00	
160+40.00	142.70	142.00	142.70	142.70	142.00	0.00	164+40.00	144.10	143.40	144.10	144.10	143.40	0.00	
160+50.00	142.74	142.04	142.74	142.74	142.04	0.00	164+50.00	144.14	143.44	144.14	144.14	143.44	0.00	
160+60.00	142.77	142.07	142.77	142.77	142.07	0.00	164+60.00	144.17	143.47	144.17	144.17	143.47	0.00	
160+70.00	142.81	142.11	142.81	142.81	142.11	0.00	164+70.00	144.21	143.51	144.21	144.21	143.51	0.00	
160+80.00	142.84	142.14	142.84	142.84	142.14	0.00	164+80.00	144.24	143.54	144.24	144.24	143.54	0.00	
160+90.00	142.88	142.18	142.88	142.88	142.18	0.00	164+90.00	144.28	143.58	144.28	144.28	143.58	0.00	
161+00.00	142.91	142.21	142.91	142.91	142.21	0.00	165+00.00	144.31	143.61	144.31	144.31	143.61	0.00	
161+10.00	142.95	142.25	142.95	142.95	142.25	0.00	165+10.00	144.35	143.65	144.35	144.35	143.65	0.00	
161+20.00	142.98	142.28	142.98	142.98	142.28	0.00	165+20.00	144.38	143.68	144.38	144.38	143.68	0.00	
161+30.00	143.02	142.32	143.02	143.02	142.32	0.00	165+30.00	144.42	143.72	144.42	144.42	143.72	0.00	
161+40.00	143.05	142.35	143.05	143.05	142.35	0.00	165+40.00	144.45	143.75	144.45	144.45	143./5	0.00	
161+60.00	143.09	142.39	143.09	143.09	142.39	0.00	165+50.00	144.47	143.//	144.47	144.47	143.//	0.00	
161+70.00	1/12 16	142.42	1/12 16	143.12	142.42	0.00								
161+80.00	1/2 10	142.40	1 <u>4</u> 3.10	1/13.10	1/2 /0	0.00								
	1/12 22	1/2.52	1/2 02	140.00		0.00								

			REFERENCE DRAWINGS			REVISIONS			
		01/17/2018	NUMBER	TITLE	DATE	NUM	DESCRIPTION		
DESIGNED		DATE			12/08/2017	А	PRE-FINAL CONTRACT DRAWINGS		
	S. HICKS	01/17/2018			01/17/2018	В	FINAL CONTRACT DRAWINGS		
DRAWN		DATE							
CHECKED	F. BLACHLY	01/17/2018							
OTILOTILD		DATE							

M WASHINGTO	N METROPOLI	TAN AREA TRANSIT AUTH	ORITY		PLATFO
OFFI	CE OF DESIGN A	AND CONSTRUCTION			
$\Box D D$	IRPG - FIXE	D FACILITIES			
 	01/17/2018	1 aun Conge C	01/17/2018	M NO.	CONTRACT NO
 JOHN PURDY ENGINEERING MANAGER		PATRICK PORZILLO ENGINEER OF RECORD		M 1302	FQ18086

B04 - RHODE ISLAND AVENUE STATION OUTBOUND TRACK - TABLE OF ELEVATIONS

10.	SCALE	DRAWING NO.	SHEET NO.		
	NONE	B04-TW-502	9 of 11		



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		25 - 111 - 111	124081111118841 633078861004080					- 4 +85 							48+73		
6-(3)								NERS	- - - - - - -			1976-1		- - - - - - - - - - - - - - - - - - -	1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 0 0 1
5 6 (3) 6		R	B	1			FASTE	NERS				1976-1	L				
TRAC	К В1													-			a a
0 0	135+80 END GUARD RAIL	- P.S. 136 + 78.69		ERGENCY GL	IARD RAIL.	-	T.S. 141+ 34.56 (B-41)	46-A	S.C. 143+84.56	46	C.S. 145+78.53	46	-B	S.T. 148+28.53	T.S. 149+47.73	48-A	S.C. 151+47.73
æ		/ »-						DUAL (UARD RA		0	0 0 0					
	49	136 + 47 END GUARD RAIL	<u>C.S. 137+ 31.20</u> (B-55)	49-B	u s	<u>S.T. 140+31.20</u> (B-56)	P.O.T. 141+50	T.S. 42 + 70.90 (B-57)	. 51-A		S.C. 145+70.90	51	4° *	C. S. 148 +49.91	<u>51-B</u>		S.T. 151+49.91
	9			E TRACK	B2	0			a	46	•		e R			48	D D
	n T					0 9			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	51		e	· · ·	•			
CURVE VE 43 c s Ea) Eu) ED -4	DATA 49 *-54'-48.5 800.00' 313.15' 300.00' 6" 4.15" 5 M.P.H.			E TRAC	K B1		4 +43.75			JRVE 4 I 8°-41 R 292 Lc 19 Ls 25 E.(Ea) 5 (Eu) 1 PEED 70 M.	CURVE 16 '-47.5" 12° 5.00' 3.96' 0.00' 20 5" .72" P.H 55	E DATA 48 2-18'-47.6" 1740.00' 177.66' 0.00/192.55' 4" 2.97" 5 M. P. H. AERIAL	51 34°-44' =1 955.0 279.0 300.0 6" 4.50 50 M.P.	5.4" 0' 0' 0' D" H			
8.00 135 +00	66.			2 VT. 138+56.86 95.99			B2 +3 B1 +3	994 %	12	0 150		B2 P.VC. 146+50 FL. 127.67 FL. 127.67			B2 PV.I. 149+ EL. 139.25 VC 580	40	T/R B
PLC. 8			B1 PVI 137			, , ,			-	80 II0	B1 +3.7369	46+40	a @	- - -		EL. 139.1 V.C. 800	
	7 — 135+34 < ∩ 135 — 135+59 < ∩ 135 — 135+99 < b m 5	00.80 00.80 000 1 <u>30</u> 200 1 <u>30</u>	EL. 89.0 V.C. 400	об 05 У Ет	RACK B2			u		0 1 0]45+36.5	7			149+11		e a
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134+91	-00 *	m 136+19 m 136+44 m 136+44 136 + 85	-B4	· @ ·	TRACK B1-		141+33	-			5+00	146+46	47+02		15	150+71	
)RI	ΤÝ		GLE	NMO	NT	ROU	TE	S	TAT	ION I	22+	00 1	0 S	TATI	ON /I	52+	00
										RELOCATE RAIL ANC RELO RAIL	E EXISTIN HOR FRO DCATE EX ANCHOR	IG CONTA DM 152+ (ISTING C FROM 1	CT 30 — ONTACT 52+01 –				
			/ASH	INGT	ON M	ETRC	POLI	TAN	ARE	A TRA	NSIT	AUTI	HORI	TY		PLAT	FO
		ζ	20	OF	FICE (OF DE IRPG -	SIGN / - FIXEI	AND C D FAC	CONS		TION This C	Parilo		17/2040	MINO	TRAC	
				\smile		01/17/201	10	P/ FN	ATRICK PO				01/	1//2018	M 1302	FQ180	86



0.	SCALE	DRAWING NO.	SHEET NO.
	N/A	B04-TW-503	10 of 11



0.	SCALE	DRAWING NO.	SHEET NO.
	N/A	B04-TW-504	11 of 11