FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2014	01	47

23

INDEX

STATE OF RHODE ISLAND

DEPARTMENT OF TRANSPORTATION

PLAN, PROFILE AND SECTIONS OF PROPOSED

STATE HIGHWAY

REPLACEMENT OF NEWMAN AVENUE BRIDGE NO. 224 AND RESURFACING OF ROUTE 152 (NEWMAN AVE)

CITY OF EAST PROVIDENCE
COUNTY OF PROVIDENCE

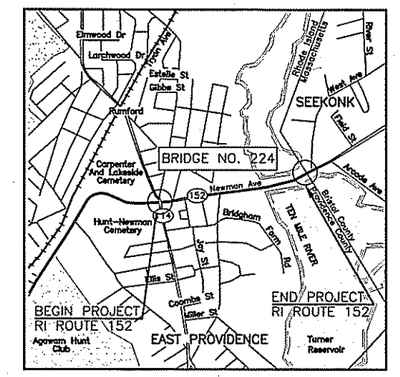
R.I. CONTRACT NO. F.A. PROJECT NO.

PAVEMENT STRUCTURE

FULL DEPTH
2" HOT MIX ASPHALT - MODIFIED CLASS 12.5
2 1/2" HOT MIX ASPHALT - CLASS 19
12" GRAVEL BORROW SUBBASE COURSE

MILLING & OVERLAY
2" HOT MIX ASPHALT - MODIFIED CLASS 12.5

0.40 MILES

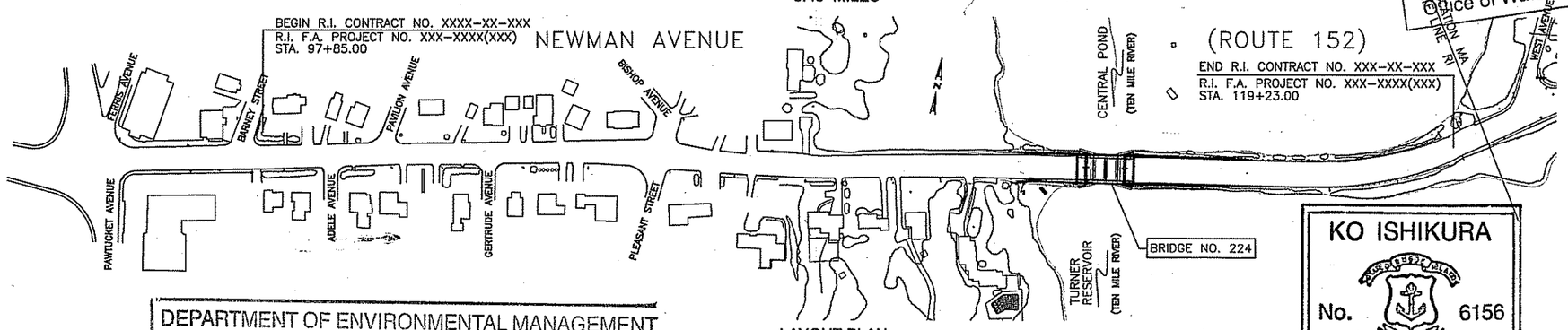


LOCATION MAP
SCALE: 1"=1200'

DESIGN	DESIGNATION
AADT (2012)	9,125 V.P.D.
AADT (2032)	11,760 V.P.D.
D	50%
K	10%
T	4.1%
DDHV	456 V.P.H.
DHV	912 V.P.D.
DESIGN SPEED	40 M.P.H.

R.I. STANDARD SPECIFICATIONS AND STANDARD DETAILS

SPECIFICATIONS TO GOVERN THIS PROJECT ARE THE R.I. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AMENDED AUGUST 2013, WITH ALL REVISIONS AND THE STATE AND FEDERAL SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS. STANDARD DETAILS FOR THIS PROJECT ARE R.I. STANDARD DETAILS, 1998 EDITION, WITH ALL REVISIONS.



LAYOUT PLAN
SCALE: 1" = 200'

SCALES OF DRAWINGS

Plans	1 inch = 40 feet
Profiles	1 inch = 40 feet Horizontal
Profiles	1 inch = 8 feet Vertical
Cross Sections	1 inch = 8 feet Horizontal
Cross Sections	1 inch = 8 feet Vertical

BASE OF LEVELS
NAVD 1988
NAD 83

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

Environmental Management
MAR 20 2015
Office of Water Resources
APPROXIMATE LOCATION OF STATE LINE MA RI

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED APR 10 2015 FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

KO ISHIKURA
No. 6156
REGISTERED
PROFESSIONAL ENGINEER

Contract Number
Number of Sheet 1
Total Sheets 47

PRELIMINARY DETERMINATION OF APPLICABILITY APPLICATION

March 6, 2015

R.I. DEPARTMENT OF TRANSPORTATION	
APPROVED	
DEPUTY CHIEF ENGINEER	DATE
APPROVED	
CHIEF ENGINEER	DATE
APPROVED	
DIRECTOR	DATE
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	
DIVISION ADMINISTRATOR	DATE

0171B_V1_01_COVER

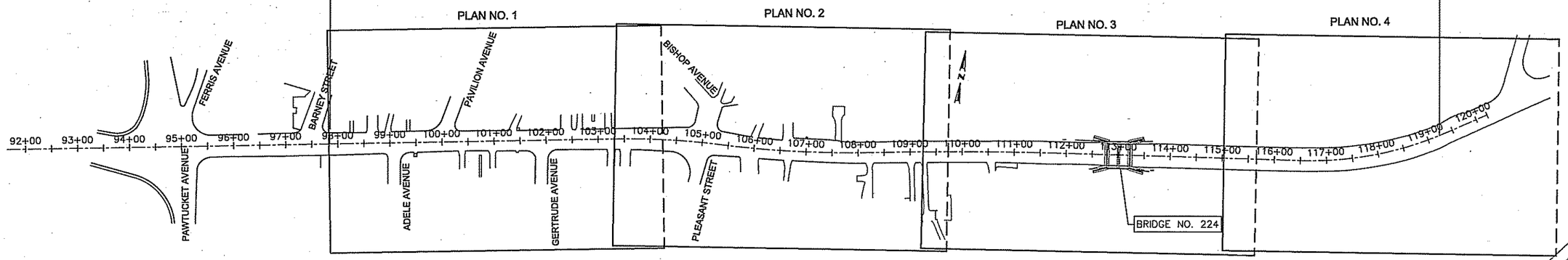
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	02	37

23

BEGIN R.I. CONTRACT NO. XXXX-XX-XXX
R.I. F.A. PROJECT NO. XXX-XXXX(XXX)
STA. 97+85.00

END R.I. CONTRACT NO. XXXX-XX-XXX
R.I. F.A. PROJECT NO. XXX-XXXX(XXX)
STA. 119+23.00

NEWMAN AVENUE (ROUTE 152)



Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wenack

SCALE IN FEET
0 200 500 FEET
HORZ. 1"=200'

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

KEY PLAN

CHECKED BY K.I. DATE _____ SCALE 1"=200'

0171B_V1_02_KEYPLAN

F:\Projects\2000\2011\2011.0010\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_002_KEYPLAN.dwg SCALE:1"=200'-0" DATE: 3/19/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.		2014	03	23

EXISTING

	EDGE OF PAVEMENT
	BERM
	CURB
	GUARDRAIL
o MB	MAILBOX
-O- NO.	UTILITY POLE
	POLE GUY
	LUMINARE
SIGN	SIGN
(SIZE)SD	SUBDRAIN
(SIZE)D	STORMDRAIN
(SIZE)S	SANITARY SEWER
(SIZE)W	WATER MAIN
(SIZE)G	GAS MAIN
(SIZE)T	TELEPHONE DUCT
(SIZE)E	ELECTRIC DUCT
	PLUG AND CAP PIPE
	ABANDONED UTILITY
	FLARED END SECTION
	HEADWALL
o WG OR GG	WATER OR GAS GATE
CB	CATCH BASIN
MH	MANHOLE
HYD	HYDRANT
1+00	BASELINE OR CENTERLINE
EXIST. S.H.L. PLAT NO. XX	STATE HIGHWAY LINE
EXIST. S.F.L. PLAT NO. XX	STATE FREEWAY LINE
EXIST. P.E.B.	PERMANENT EASEMENT LINE
EXIST. T.E.B.	TEMPORARY EASEMENT LINE
P	PROPERTY LINE
CITY NAME / TOWN NAME	CITY OR TOWN LINE
PWW	PAVED WATERWAY
ELEV.	CONTOUR LINE
	OPEN DITCH
R.I.H.B.	R.I. HIGHWAY BOUND
S.B.	STONE BOUND
	RETAINING WALL
	FIELD STONE WALL
NO. / TYPE	BORINGS
	FENCE
	WOOD OR BRUSH LINE
	TREES
(NAME)	RIVER OR STREAM
	WETLAND AREA
NO. TYPE MATERIAL	BUILDING
	FOUNDATION
	BUILDING TO BE REMOVED
	RAILROAD TRACKS
	CUT AND MATCH
	RIP-RAP
	CUT SLOPE
	FILL SLOPE
ROCK CUT	ROCK CUT
00x00	SPOT GRADE
	AREA GRADED TO DRAIN
	BALED HAY RI STD 9.1.0
	BALED HAY & SILT FENCE RI STD. 9.3.0
123 124 125	EDGE OF WETLAND
	WETLAND PERIMETER
ASSF	AREA SUBJECT TO STORM FLOW
100 YR. FLOOD BOUNDARY	100-YEAR FLOOD PLAIN
	LIMIT OF DISTURBANCE
	LIMIT OF CLEARING

NEW

	EDGE OF PAVEMENT
	BERM
	CURB
	GUARDRAIL
NO.	MAILBOX
NO. GUY	UTILITY POLE
	POLE GUY
	LUMINARE
	SIGN
N(SIZE)SD (Length — Size)	SUBDRAIN
(Length — Size)	STORMDRAIN
N(SIZE)W	SANITARY SEWER
N(SIZE)G	WATER MAIN
N-#(SIZE)T	GAS MAIN
N-#(SIZE)E	TELEPHONE DUCT
	ELECTRIC DUCT
	PLUG AND CAP PIPE
	ABANDONED UTILITY
	FLARED END SECTION
	HEADWALL
	WATER OR GAS GATE
	CATCH BASIN
	MANHOLE
	HYDRANT
1+00	BASELINE OR CENTERLINE
NEW S.H.L. PLAT NO. XX	STATE HIGHWAY LINE
NEW S.F.L. PLAT NO. XX	STATE FREEWAY LINE
NEW P.E.B.	PERMANENT EASEMENT LINE
NEW T.E.B.	TEMPORARY EASEMENT LINE
	PROPERTY LINE
	CITY OR TOWN LINE
	PAVED WATERWAY
ELEV.	CONTOUR LINE
	OPEN DITCH
	R.I. HIGHWAY BOUND
	STONE BOUND
	RETAINING WALL
	FIELD STONE WALL
NO.	BORINGS
	FENCE
	WOOD OR BRUSH LINE
	TREES
	RIVER OR STREAM
	WETLAND AREA
	BUILDING
	FOUNDATION
	BUILDING TO BE REMOVED
	RAILROAD TRACKS
	CUT AND MATCH
	RIP-RAP
ROADWAY / TOP OF SLOPE	CUT SLOPE
ROADWAY / TOE OF SLOPE	FILL SLOPE
ROCK SHELF / ROCK CUT	ROCK CUT
00.00 x / ELEV.	SPOT GRADE
	AREA GRADED TO DRAIN
	BALED HAY RI STD 9.1.0
	BALED HAY & SILT FENCE RI STD. 9.3.0
	EDGE OF WETLAND
	WETLAND PERIMETER
	AREA SUBJECT TO STORM FLOW
	100-YEAR FLOOD PLAIN
LIMIT OF DISTURBANCE	LIMIT OF DISTURBANCE
LIMIT OF CLEARING	LIMIT OF CLEARING

1.1.0	UNDERDRAIN
1.3.0	CONCRETE CONNECTING COLLAR
2.1.0	CONCRETE HEADWALLS FOR PIPE CULVERTS
2.2.0	STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS
2.3.0 (DIA.)	PRECAST CONCRETE FLARED END SECTION
3.2.0	BRICK/SOLID BLOCK 4'-0" ROUND MANHOLE
3.2.1 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND MANHOLE
3.3.0	BRICK/SOLID BLOCK TYPE "D" SQUARE CATCH BASIN
3.3.2	BRICK/SOLID BLOCK TYPE "F" SQUARE CATCH BASIN
3.3.3	SOLID BLOCK FLUSH SQUARE CATCH BASIN
3.4.0	BRICK/SOLID BLOCK TYPE "D" ROUND CATCH BASIN
3.4.1	BRICK/SOLID BLOCK ROUND CATCH BASIN WITH GUTTER INLET
3.4.2	BRICK/SOLID BLOCK TYPE "F" ROUND CATCH BASIN
3.4.3	BRICK/SOLID BLOCK TYPE "R" CATCH BASIN
3.4.4	SOLID BLOCK FLUSH ROUND CATCH BASIN
3.4.5 (DIA.)	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN
3.5.0	SOLID BLOCK SHALLOW TYPE "F" SQUARE CATCH BASIN
3.5.1 (SIZE)	SOLID BLOCK SHALLOW 5'-0" OR 6'-0" SQUARE CATCH BASIN
3.6.0	BRICK/SOLID BLOCK DROP INLET
3.7.0 (DIA.)	BRICK/SOLID BLOCK ROUND MANHOLE OR CATCH BASIN GREATER THAN 12'-0"
4.2.0	PRECAST 4'-0" ROUND MANHOLE
4.2.1	PRECAST 5'-0" ROUND MANHOLE
4.2.2	PRECAST 6'-0" ROUND MANHOLE
4.3.0 (SIZE)	PRECAST 4'-0" OR 6'-0" SQUARE MANHOLE OR CATCH BASIN
4.4.0 (DIA.)	PRECAST 4'-0", 5'-0", OR 6'-0" ROUND CATCH BASIN
4.5.0	PRECAST CONCRETE DROP INLET
4.5.1	PRECAST CONCRETE DROP INLET LATERAL OUTLET
4.5.2	PRECAST CONCRETE DROP INLET LONGITUDINAL OUTLET
5.3.0	CATCH BASIN AND MANHOLE STEP
5.4.0	CONCRETE COLLARS
6.1.0	LIGHT-DUTY SQUARE FRAME AND ROUND COVER
6.1.1	HEAVY DUTY SQUARE FRAME AND ROUND COVER
6.2.0	LIGHT-DUTY ROUND FRAME AND COVER
6.2.1	HEAVY-DUTY ROUND FRAME AND COVER
6.3.0	SQUARE FRAME AND GRATE
6.3.1	SQUARE FRAME AND GRATE
6.3.2	SQUARE FRAME AND GRATE (BICYCLE SAFE)
6.3.3	HIGH CAPACITY FRAME AND GRATE
6.3.4	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)
6.4.0	ROUND FRAME AND GRATE
7.1.0S	PRECAST CONCRETE CURB (STRAIGHT)
7.1.0C	PRECAST CONCRETE CURB (CIRCULAR)
7.1.1	3'-0" PRECAST CONCRETE TRANSITION CURB
7.1.2	6'-0" PRECAST CONCRETE TRANSITION CURB
7.1.4	PRECAST 2'-0" RADIUS CORNER
7.1.5	PRECAST CONCRETE INLET STONE (FOR SQUARE CATCH BASIN)
7.1.6	PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)
7.1.7	PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)
7.1.8	PRECAST CONCRETE APRON STONE (FOR ROUND CATCH BASIN)
7.2.0S	PRECAST CONCRETE SLOPED FACE CURB (STRAIGHT)
7.2.0C	PRECAST CONCRETE SLOPED FACE CURB (CIRCULAR)
7.2.1	PRECAST CONCRETE SLOPED FACE TRANSITION CURB
7.2.2	PRECAST CONCRETE TRANSITION CURB (VERTICAL FACE TO SPLOPED FACE)
7.3.0S	GRANITE CURB (STRAIGHT)
7.3.0C	GRANITE CURB (CIRCULAR)
7.3.1	3'-0" GRANITE TRANSITION CURB
7.3.2	6'-0" GRANITE TRANSITION CURB
7.3.3	GRANITE WHEELCHAIR RAMP TRANSITION CURB
7.3.4	GRANITE 2'-0" RADIUS CORNER
7.3.5	GRANITE INLET STONE (FOR SQUARE CATCH BASIN)
7.3.6	GRANITE INLET STONE (FOR ROUND CATCH BASIN)
7.3.7	GRANITE APRON STONE (FOR SQUARE CATCH BASIN)
7.3.8	GRANITE APRON STONE (FOR ROUND CATCH BASIN)
7.4.0	GRANITE SLOPED FACE CURB
7.4.1	GRANITE SLOPED FACE TRANSITION CURB
7.4.2	GRANITE TRANSITION CURB (VERTICAL FACE TO SLOPE FACE)
7.5.0	BITUMINOUS CONCRETE LIP CURB
7.5.1A	BITUMINOUS BERM (CONSTRUCTION METHOD A)
7.5.1B	BITUMINOUS BERM (CONSTRUCTION METHOD B)
7.6.0	CURB SETTING DETAIL
8.2.0	BITUMINOUS CONCRETE DITCH
8.3.0	RIP-RAP DITCH
8.4.0	PAVED WATERWAY
9.1.0	BALED HAY EROSION CHECK
9.2.0	SILT FENCE DETAIL
9.3.0	BALED HAY DITCH EROSION CHECK AND SILT FENCE COMBINED
9.4.0	BALED HAY DITCH AND SWALE EROSION CHECK
9.5.0	LOG AND HAY CHECK DAM
9.7.0	DEWATERING BASIN
9.8.0	BALED HAY CATCH BASIN INLET PROTECTION
9.9.0	CONSTRUCTION ACCESS
10.1.0	WET STONE MASONRY RETAINING WALL
10.2.0	RUBBLE MASONRY WALL
10.3.0	CONCRETE RETAINING WALL
10.4.0	STONE MASONRY STEPS
14.1.0	CONCRETE HIGHWAY BOUND
15.1.0	POST AND MOUNTINGS FOR RURAL MAILBOX
15.2.0 (NO.)	POST AND MULTIPLE MOUNTINGS FOR RURAL MAILBOXES
18.2.0	PRECAST TYPE "A" HANDHOLE
18.2.2	HEAVY DUTY TYPE "H" HANDHOLE
18.3.0	ALUMINUM LIGHTING STANDARDS
20.2.0	BI-DIRECTIONAL CONTROL DEVICE
24.6.1	STREET SIGN MOUNTING DETAIL
26.2.0	POLYETHYLENE DRUM WITH MARKINGS
26.3.0	PVC PLASTIC PIPE TYPE III BARRICADE
31.1.0	CHAIN LINK FENCE 3'-0" TO 4'-0"
31.2.0	CHAIN LINK FENCE 5'-0" TO 6'-0"
31.2.1	CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST
31.3.0	WOVEN WIRE RIGHT-OF-WAY FENCE (STEEL POST)
34.1.0	TYPICAL GUARDRAIL INSTALLATION
34.2.0	STEEL BEAM GUARDRAIL
34.2.1	STEEL BEAM GUARDRAIL DETAILS
34.2.2	STEEL BEAM GUARDRAIL DOUBLE FACED ASSEMBLY
34.2.3	STEEL BEAM GUARDRAIL FIXTURES
34.2.5	STEEL BEAM GUARDRAIL REFLECTORIZED TRIANGULAR DELINEATOR
34.3.1	GUARDRAIL END SECTION
34.3.2	TERMINAL END SECTION (SINGLE FACE)
34.3.3	ANCHORAGE DETAILS APPROACH END SECTION
34.3.4	ANCHORAGE DETAILS TRAILING END SECTION
34.4.0	STEEL BACKED TIMBER GUARDRAIL
34.4.1	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION-TYPE 1
40.1.0	DOUBLE-FACED PRECAST MEDIAN BARRIER
40.2.0	SINGLE-FACED PRECAST MEDIAN BARRIER
40.2.1	SINGLE-FACED PRECAST MEDIAN BARRIER
40.3.0	PRECAST MEDIAN BARRIER TRANSITION UNIT
40.5.0	PRECAST MEDIAN BARRIER FOR TEMPORARY TRAFFIC CONTROL
43.1.0	CEMENT CONCRETE SIDEWALK
43.2.0	BITUMINOUS CONCRETE SIDEWALK
43.3.0	WHEELCHAIR RAMP
43.3.1	WHEELCHAIR RAMP FOR LIMITED RIGHT-OF-WAY AREAS
43.4.0	DRIVEWAY DEVELOPMENT FOR 3'-0" TRANSITION CURB
43.4.1	DRIVEWAY DEVELOPMENT FOR 6'-0" TRANSITION CURB
43.5.0	CEMENT CONCRETE DRIVEWAYS
48.1.0	DETECTABLE WARNING SYSTEM
51.1.0	TREE PROTECTION DEVICE
51.1.1	DRIP LINE TREE PROTECTION DEVICE FOR EXISTING TREES
51.2.0	SHRUB PROTECTION DEVICE
51.3.0	TREE WELL
51.4.0	TREE WALL

AB	ADJUST CATCH BASIN TO GRADE
ABM	ADJUST CATCH BASIN TO MANHOLE
AC	ADJUST CURB STOP TO GRADE
AD	ADJUST DRAINAGE MANHOLE TO GRADE
AE	ADJUST ELECTRIC MANHOLE TO GRADE
AFC	ADJUST FRAME AND COVER TO GRADE
AFG	ADJUST FRAME AND GRATE TO GRADE
AG	ADJUST GAS GATE BOX TO GRADE
AHH	ADJUST HANDHOLE TO GRADE
AS	ADJUST SANITARY SEWER MANHOLE TO GRADE
AT	ADJUST TELEPHONE MANHOLE TO GRADE
AW	ADJUST WATER GATE BOX TO GRADE
BCD	BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE TYPE I-2 8" GRAVEL BORROW SUBBASE COURSE
BPS	BUILD NEW STRUCTURE OVER EXISTING PIPE
CCB	CLEAN CATCH BASIN
CCP	CUT AND CAP PIPE WITH RESTRAINT (ALL SIZES)
CFP	CLEAN AND FLUSH PIPE
CG	CLEARING AND GRUBBING
CMH	CLEAN MANHOLE
CP (DEPTH)	COLD PLANE
CPP	CUT AND PLUG PIPE (ALL TYPES, ALL SIZES)
DB	REMOVE AND DISPOSE BITUMINOUS CURB
DC	REMOVE AND DISPOSE CONCRETE CURB
DCB	REMOVE AND DISPOSE CATCH BASIN
DDI	REMOVE AND DISPOSE DROP INLET
DF	REMOVE AND DISPOSE FENCE
DFC	REMOVE AND DISPOSE FRAME AND COVER
DFE	REMOVE AND DISPOSE FLARED END SECTION
DFG	REMOVE AND DISPOSE FRAME AND GRATE
DFH	REMOVE AND DISPOSE FIRE HYDRANT
DFP	REMOVE AND DISPOSE FLEXIBLE PAVEMENT
DG	REMOVE AND DISPOSE GUARDRAIL
DH	REMOVE AND DISPOSE HEADWALL
DHB	REMOVE AND DISPOSE HIGHWAY BOUND
DHH	REMOVE AND DISPOSE HANDHOLE
DL	REMOVE AND DISPOSE LIGHT AND FOUNDATION
DMB	REMOVE AND DISPOSE MEDIAN BARRIER
DMH	REMOVE AND DISPOSE MANHOLE
DMM	REMOVE AND DISPOSE MEDIAN MARKER
DOW	REMOVE AND DISPOSE OBSERVATION WELL
DP	REMOVE AND DISPOSE PIPE
DPB	REMOVE AND DISPOSE PAVEMENT AND RIGID BASE
DRB	REMOVE AND DISPOSE RIGID BASE
DS	REMOVE AND DISPOSE SIGN
DSS	REMOVE AND DISPOSE TRAFFIC SIGNAL SYSTEM
DSW	REMOVE AND DISPOSE SIDEWALK
DTD	REMOVE AND DISPOSE TELEPHONE DUCT BANKS
DUP	REMOVE AND DISPOSE UTILITY POLE
DWW	REMOVE AND DISPOSE PAVED WATERWAY
FF	FILTER FABRIC RIPRAP FLARED END UNDERLAYMENT
GET	FLARED GUARDRAIL END TREATMENT
IA	IMPACT ATTENUATOR
IDL	IMPERVIOUS DITCH LINER
LOD	LIMIT OF DISTURBANCE
LOR	LIMIT OF REGRADING
LS	4" LOAM AND SEED

NFH	NEW FIRE HYDRANT WITH GATE VALVE
NIC	NOT IN THIS CONSTRUCTION CONTRACT
NWB	FURNISH AND INSTALL NEW WATER GATE VALVE BOX
NWVB	FURNISH AND INSTALL NEW WATER GATE VALVE AND BOX
NWCB	FURNISH AND INSTALL NEW WATER CURB STOP BOX
NWSB	FURNISH AND INSTALL NEW WATER CURB STOP AND BOX
PCD	PERMANENT CHECK DAM
PS	4" PLANTABLE SOIL AND SEED
RCB	RECONSTRUCT TYPE "D" CATCH BASIN, TO CATCH BASIN WITH GUTTER INLET
RCM	R.I.D.O.T. COMMUNICATIONS MANHOLE
RHH	REMOVE, HANDLE, HAUL, TRIM, RESET CURB EDGING, STRAIGHT, CIRCULAR (ALL TYPES)
RLP	RELOCATE LAMP POST
RMB	RELOCATE MAILBOX (BY OTHERS)
RPM	REMOVE PAVEMENT MARKINGS
RRP	RIP-RAP PAD (SEE DETAIL)
RRS	REMOVE AND RELOCATE SIGN
RUP	RELOCATE UTILITY POLE (BY OTHERS)
SB	STONE BAFFLE
SBAE	STEEL BEAM BRIDGE CONNECTION APPROACH END (W/O NESTED RAIL)
SBTE	STEEL BEAM BRIDGE CONNECTION TRAILING END (W/NESTED RAIL)
SD-	STRUCTURAL DISPOSITION - SEE CS PAGES OF SPECIFICATION
SF	REMOVE AND STOCKPILE FENCE
SGA	SPECIAL GRADED AGGREGATE
SGC	REMOVE AND STOCKPILE GRANITE CURB
SGR	REMOVE AND STOCKPILE GUARDRAIL
SH	REMOVE AND STOCKPILE HYDRANT
SS	REMOVE AND STOCKPILE SIGN
STS	REMOVE AND STOCKPILE TRAFFIC SIGNAL SYSTEM
TB	CONCRETE THRUST BLOCK
TEP	TIE EXISTING PIPE INTO NEW STRUCTURE
TNP	TIE NEW PIPE INTO EXISTING STRUCTURE
TBT	THRIE BEAM TRANSITION
TBBC	THRIE BEAM BRIDGE CONNECTION
TT	TREE TRIMMING
WCM	4" WOOD CHIP MULCH
4DY	4" EPOXY RESIN PAVEMENT MARKINGS - DOUBLE YELLOW
6W	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
12W	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
6WT	6" PREFORMED PATTERNED MARKING (HIGH PERFORMANCE TAPE)
4Y	4" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
6Y	6" EPOXY RESIN PAVEMENT MARKINGS - YELLOW
P.G.L.	PROFILE GRADE LINE

Environmental Management
MAR 20 2015
Office of Water Resources

THIS PLAN SHALL NOT BE ALTERED

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenck

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY
1	6/07	TRB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

STANDARD PLAN SYMBOLS & STANDARD LEGEND

CHECKED BY _____ DATE _____ SCALE NO SCALE

0171B_V1_03_STDSYM

F:\Projects\2000\2011\2011.0013\Drawings\Contract Design\0171B_V1_003_STDSYM - Layout 1.dwg 1/2 SCALE DATE: 3/04/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.	-	2014	04	23

GENERAL NOTES:

1. ANY DAMAGE TO EXISTING PAVEMENT, BRIDGES, CONDUIT, SIDEWALK, FENCES, ETC., CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
2. THE CONTRACTOR SHALL PLACE ALL EQUIPMENT AND MATERIAL AS FAR AWAY AS POSSIBLE FROM THE EDGE OF THE TRAVEL LANE SO AS NOT TO CAUSE A SAFETY HAZARD, IN ACCORDANCE WITH SECTION 106.06 OF THE R.I.D.O.T. STANDARD SPECIFICATION, LATEST EDITION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE EXISTING CONDITIONS ARE NOT OBLITERATED BEFORE CONTROL POINTS ARE LOCATED AND CONSTRUCTION LAYOUT IS ESTABLISHED. THE CONSTRUCTION LAYOUT SHALL BE PROVIDED IN SUFFICIENT DETAIL, THEREBY ENABLING HIM TO CONSTRUCT THE PROJECT IN CONFORMITY WITH THE PLANS AND SPECIFICATIONS. SURVEY WILL BE PROVIDED BY THE CONTRACTOR. THE RESIDENT ENGINEER WILL NOT AUTHORIZE CONSTRUCTION ACTIVITIES TO BEGIN UNTIL HE IS SATISFIED THAT ALL GROUND CONTROL HAS BEEN ESTABLISHED, TIED DOWN, AND DULY RECORDED IN STANDARD FIELD BOOKS.
4. ALL R.I. STD. 9.9.0 CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.
5. THE FREQUENCY AND APPLICATION RATES FOR THE DUST CONTROL ITEMS WILL BE AS DIRECTED BY THE ENGINEER.
6. ALL SIDEWALK AND DRIVEWAYS DESIGNATED FOR REPLACEMENT SHALL BE CUT AND MATCHED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
7. ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO PAVEMENT PLACEMENT ON THE CONCRETE BASE OR COLD PLANED PAVEMENT, AND ON ANY NEW COURSE WHICH HAS BEEN OPEN TO TRAFFIC, OR ANY NEW COURSE WHICH HAS BEEN EXPOSED FOR MORE THAN 3 DAYS, AND/OR AS DIRECTED BY THE ENGINEER. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS. ALL APPLICATIONS ON BOTH HORIZONTAL AND VERTICAL SURFACES SHALL BE PAID FOR UNDER THE CONTRACT UNIT BID PRICE FOR CODE 403.0300 "ASPHALT EMULSION TACK COAT."
8. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS. IN ADDITION TO THOSE AREAS SPECIFICALLY DESIGNATED ON THE PLANS, THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND PLACING, AT HIS OWN EXPENSE, PLANTABLE SOIL AND SEED IN AREAS WHICH ARE OUTSIDE OF THE PROJECT'S AREAS OF DISTURBANCE AND WHICH ARE IMPACTED BY CONSTRUCTION OPERATIONS INCLUDING THOSE AREAS WHERE VEHICLES, EQUIPMENT AND MATERIALS ARE STORED WITH THE PERMISSION OF THE ENGINEER.
9. UNDER NO CIRCUMSTANCE WILL THE CONTRACTOR BE ALLOWED TO STOCKPILE REMOVED PAVEMENT MATERIALS WITHIN THE PROJECT LIMITS.
10. CLEANING AND SWEEPING OF PAVEMENT WILL INCLUDE REMOVAL OF ALL PAVEMENT DEBRIS PRIOR TO THE PLACEMENT OF EACH BITUMINOUS PAVEMENT LIFT. ALL CLEANING AND SWEEPING SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
11. PRIOR TO INSTALLATION, ALL SIGNS, MOUNTINGS AND LOCATIONS SHALL BE APPROVED OR MODIFIED BY THE ENGINEER.
12. THE COORDINATE SYSTEM, IF SHOWN, IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM.
13. PAVEMENT OPERATIONS FOR CURBED SECTIONS: IN AREAS WHERE CURBING IS SET TO FINISH LINE AND GRADE, THE CONTRACTOR WILL NOT BE REQUIRED TO UTILIZE THE SENSOR AND SKY-TYPE DEVICE FOR AUTOMATIC GRADE CONTROL, BUT WILL BE ALLOWED TO MANUALLY ADJUST THE BITUMINOUS PAVER FOR CONTROLLING GRADE.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ROADWAYS FREE OF DEBRIS RESULTING FROM THEIR CONSTRUCTION OPERATIONS. ALL DEBRIS SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST TO THE STATE.
15. NO FUEL STORAGE, VEHICLE REFUELING, OR EQUIPMENT STORAGE SHALL TAKE PLACE IN DESIGNATED WETLANDS, NOR WITHIN 100' OF ANY WATER BODY. THIS REQUIREMENT SHALL NOT SUPERSEDE ANY FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION THAT APPLIES TO THE SAME, UNLESS THIS REQUIREMENT IS MORE STRINGENT THAN SAID LAW, ORDINANCE, RULE OR REGULATION.
16. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT AT THE END OF FINAL PAVING OPERATIONS, FLOW TO EXISTING DRAINAGE STRUCTURES HAS BEEN REESTABLISHED AND THAT NO ISOLATED DEPRESSIONS REMAIN. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS PROVISION; IT SHALL BE CONSIDERED INCIDENTAL TO PAVING AND COLD PLANING OPERATIONS.
17. ALL EMBANKMENTS SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 12" (AFTER COMPACTION) AND SHALL BE COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED. ALSO, EMBANKMENT CONSTRUCTION SHALL CONFORM TO SECTION 202.03.2 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
18. IF THIS PROJECT IS ON A HURRICANE EVACUATION AND DIVERSIONARY ROUTE, AS DESIGNATED ON THE COVERSHEET, THE CONTRACTOR IS ADVISED THAT UPON 12 (TWELVE) HOURS NOTICE THE ROADWAY SHALL BE OPEN TO EVACUEES AND EMERGENCY PERSONNEL. ANY EXTRA WORK NECESSARY TO COMPLY WITH THIS REQUIREMENT WILL BE REIMBURSED UNDER FORCE ACCOUNT PROCEDURES.
19. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS STATED IN THE ENVIRONMENTAL APPROVALS ISSUED FOR THE PROJECT FROM THE DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (RIDEM). AND/OR THE ARMY CORPS OF ENGINEERS (ACOE). AND/OR THE COASTAL RESOURCES MANAGEMENT COUNCIL (CRMC). COPIES OF EACH OF THESE PERMITS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH THESE CONDITIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
20. FOR ALL PROJECTS INVOLVING KNOWN SITE REMEDIATION ISSUES, THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE CONSTRUCTION RELATED PROVISIONS, CONDITIONS, AND STIPULATIONS OF ANY REMEDIAL PLANS DEVELOPED FOR THE PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THESE DOCUMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
21. NO UNPROTECTED CONSTRUCTED FEATURE MAY PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. HEADWALL, DRAINAGE INLET, ETC.
22. THE REMAINING SECTION OR STUB OF A BREAKAWAY BASE MAY NOT PROJECT MORE THAN 4 INCHES ABOVE THE FINISHED GRADE OF A TRAVERSABLE SLOPE IN A CLEAR ZONE, e.g. SIGN POSTS, LIGHT POLES, FIRE HYDRANTS, ETC.

DRAINAGE AND EROSION CONTROL NOTES:

1. FOR ALL PROJECTS WITH AT LEAST ONE(1) ACRE OF SOIL DISTURBANCE. R.I.D.O.T. IS REQUIRED TO DEVELOP AND ENFORCE A SITE SPECIFIC STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ORDER TO REMAIN IN COMPLIANCE WITH THE RIPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL READ, BECOME FAMILIAR WITH, AND ADHERE TO ALL OF THE PROVISIONS, CONDITIONS, AND STIPULATIONS OF THE GENERAL PERMIT AND THE SITE SPECIFIC SWPPP FOR THIS PROJECT. COPIES OF THESE DOCUMENTS ARE INCLUDED IN THE CS PAGES OF THE CONTRACT DOCUMENTS. ALL COSTS ASSOCIATED WITH ADHERENCE TO THE SWPPP SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND INCLUDED WITH THE COST FOR THE ASSOCIATED BID ITEM(S).
2. NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15 OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE RESIDENT ENGINEER OR ENVIRONMENTAL INSPECTOR, BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE R.I. SOIL EROSION AND SEDIMENT CONTROL HANDBOOK. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. ANY WORK TO CORRECT PROBLEMS RESULTING FROM FAILURE TO COMPLY WITH THIS PROVISION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THERE WILL BE NO SEPARATE PAYMENT FOR THIS PROVISION, IT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OPERATIONS. STABILIZATION OF ONE FORM OR ANOTHER AS DESCRIBED ABOVE SHALL BE ACHIEVED WITHIN 2 WEEKS OF FINAL GRADING.
3. STOCKPILES OF MATERIAL SHALL NOT BE LOCATED WITHIN REGULATED WETLANDS OR BUFFER ZONE AREAS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 30% AND STOCKPILES OF ERODABLE MATERIAL SHALL ALSO BE SEEDED AND RINGED WITH R.I. STD. 9.1.0 TO STABILIZE.
4. IF THE PLANS INCLUDE SPECIFIC AREAS FOR PLACEMENT OF CONSTRUCTION DEWATERING BASINS AND/OR EQUIPMENT AND MATERIALS STORAGE AND STOCKPILING, AND IF THE CONTRACTOR ELECTS TO UTILIZE ANY OTHER AREAS FOR THESE PURPOSES, THIS SHALL BE APPROVED BY THE ENGINEER ONLY AFTER OBTAINING ANY NECESSARY PERMITS AND/OR PERMIT MODIFICATIONS FROM THE APPROPRIATE REGULATORY AUTHORITY(IES). ANY PERMITTING REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE ACCOMPLISHED AT NO COST TO THE STATE. THE ENGINEER WILL COORDINATE SUBMISSION OF ANY REQUIRED PERMIT APPLICATION MATERIALS WITH THE R.I.D.O.T. OFFICE OF ENVIRONMENTAL PROGRAMS.
5. JUTE MESH SHALL BE USED TO STABILIZE PLANTABLE SOIL AND/OR LOAM IN ALL DITCHES, ON ALL SLOPES ADJACENT TO WETLANDS AND WETLAND PERIMETERS, AND ON ALL SLOPES WITHIN WATER QUALITY BASINS. JUTE MESH IN DITCHES SHALL EXTEND TO AN ELEVATION 2 FEET ABOVE THE BOTTOM OF THE DITCH.
6. SEEDING ON ALL SLOPES 3 TO 1 OR STEEPER SHALL CONSIST OF THE FOLLOWING APPLICATIONS UNLESS CHANGED IN THE CONTRACT.
   a. SEEDING TYPE I.
   b. ADHESIVE MULCH STABILIZER
7. UNVEGETATED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR PERIODS IN EXCESS OF 2 WEEKS OR THROUGH THE INACTIVE WINTER SEASON.
8. PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION (HORIZONTAL AND VERTICAL) OF ALL EXISTING PIPES AND/OR STRUCTURES WHICH ARE TO BE CONNECTED. ANY VARIATION FOUND FROM THE PLANS MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO DRAINAGE AND UTILITY CONSTRUCTION. WORK CAN COMMENCE ONLY UPON THE ENGINEER'S AUTHORIZATION.
9. ALL DRAINAGE AND UTILITY STRUCTURES WITHIN THE PAVED ROADWAY SHALL BE ADJUSTED TO GRADE WITH THE SURROUNDING PAVEMENT PRIOR TO THE WINTER SHUTDOWN.
10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING DRAINAGE AND RUNOFF FLOW DURING STORMS AND PERIODS OF RAINFALL THROUGHOUT THE WORK AREA.
11. CATCH BASIN RIM GRADES NOTED ON PLANS ARE DEPRESSED 0.1' LOWER THAN THE GUTTER GRADE. RIM ELEVATIONS SHOWN ARE FINAL GRADES. THE CONTRACTOR SHALL PLACE FRAMES AND GRATES 0.1' BELOW THE GRADE CONSTRUCTED IN THIS CONTRACT OR AS DIRECTED BY THE ENGINEER.
12. PROVISIONS FOR CLEARING TO ACCESS OUTFALLS DURING THE CLEANING AND FLUSHING OF THE CLOSED DRAINAGE SYSTEM SHALL BE KEPT TO A MINIMUM.
   a. ANY VEGETATIVE CLEARING SHALL BE LIMITED TO BRUSH AND TREES LESS THAN 3" DIAMETER.
   b. NO HEAVY EQUIPMENT MAY ENCROACH UPON VEGETATED PERIMETER OR RIVERBANK WETLANDS AS WELL AS BIOLOGICAL WETLANDS.
13. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL DEVICES FOR OUTLET PROTECTION PRIOR TO CLEANING AND FLUSHING STORM WATER DRAINAGE. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ALL FLUSHED SEDIMENTS ARE REMOVED. AT ALL OUTFALL LOCATIONS WHERE PIPES ARE TO BE CLEANED AND FLUSHED, OUTLET PROTECTION (R.I. STD. 9.1.0 OR 9.3.0) SHALL BE INSTALLED TO TRAP SEDIMENTS. THESE SEDIMENTS SHALL THEN BE REMOVED AND DISPOSED OF LEGALLY BEFORE THE OUTLET PROTECTION DEVICES ARE REMOVED. IF OUTLET PROTECTION AT THE OUTFALL IS NOT FEASIBLE, THEN THE OUTLET PIPE OF THE LAST DRAINAGE STRUCTURE TO BE CLEANED SHALL BE PLUGGED TO CAPTURE ALL MATERIALS FLUSHED FROM PIPES. AFTER THE MATERIALS ARE REMOVED FROM THE DRAINAGE STRUCTURE, THE OUTLET SHALL BE UNPLUGGED TO RESUME NORMAL FUNCTIONING.
14. R.I. STD. 9.8.0 BALED HAY INLET PROTECTION SHALL BE INSTALLED AT ALL CATCH BASINS AND INLETS WHENEVER SUBBASE IS EXPOSED, AND SHALL REMAIN IN PLACE UNTIL THE ABUTTING GROUND SURFACES ARE STABILIZED.
15. WHERE BALED HAY INLET PROTECTION AND SILT FENCES ARE USED AT CATCH BASINS, THEY SHALL BE REMOVED AT THE END OF THE PROJECT OR AS DIRECTED BY THE ENGINEER IN ORDER TO PREVENT CLOGGING OF THE INLET.

DRAINAGE AND EROSION CONTROL NOTES (CONTINUED):

16. DETENTION AND RETENTION BASINS MAY BE ROUGH GRADED AND STABILIZED WITH VEGETATION AND/OR OTHER EROSION CONTROL MEASURES AS REQUIRED BY THE ENGINEER PRIOR TO USE AS TEMPORARY SEDIMENTATION BASINS DURING PROJECT CONSTRUCTION. FINAL BASIN CONSTRUCTION SHALL NOT COMMENCE UNTIL ALL SOURCES OF SEDIMENT HAVE BEEN ELIMINATED, FINAL ROADSIDE VEGETATION IS ESTABLISHED AND USE OF TEMPORARY BASINS IS NO LONGER REQUIRED AS DIRECTED BY THE ENGINEER. ANY ISSUES RELATING TO EROSION AND/OR SEDIMENT TRANSPORT INTO WETLAND AREAS RESULTING FROM SUCH USE OF SEDIMENTATION BASINS DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ANY CORRECTIVE ACTION REQUIRED TO RESOLVE SUCH ISSUES SHALL BE COMPLETED BY THE CONTRACTOR.
17. THE TOE OF ANY FILL SLOPE IS TO REMAIN AT LEAST 1' INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COVER ANY PORTION OF THE EROSION CONTROL MEASURES WITH MATERIAL. ANY MATERIAL THAT IS PLACED ON ANY EROSION CONTROLS BY THE CONTRACTOR, OR ANY AGENT OF THE CONTRACTOR, SHALL BE IMMEDIATELY REMOVED BY THE CONTRACTOR, AND ANY NECESSARY REPAIRS TO THE EROSION CONTROLS ACCOMPLISHED.
18. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES, EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED AT THOSE AREAS INDICATED ON THE PLANS. CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, HOWEVER NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO INSTALLATION. THE LIMITS OF CLEARING AND SURFACE DISTURBANCE MUST BE STRICTLY ADHERED TO IN ALL AREAS.
19. ALL HAY BALES, SILT FENCE OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS IS ESTABLISHED. IF NEEDED, TEMPORARY SEEDING CAN HELP TO MINIMIZE EROSION. TEMPORARY SEED WILL CONFORM TO R.I.D.O.T. STANDARD TEMPORARY SEED MIX.
20. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN THE PERIOD OF ONE YEAR AND HE SHALL DO SO AT NO ADDITIONAL EXPENSE TO THE STATE.
21. THE NORMAL ACCEPTABLE SEASONAL SEEDING DATES ARE SPECIFIED IN SUBSECTION L.02.03 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
22. ADDITIONAL EROSION CONTROLS, SHALL BE INSTALLED AS DIRECTED BY THE RESIDENT ENGINEER. THESE ADDITIONAL ITEMS WILL BE PAID AT THE UNIT PRICE FOR THAT BID ITEM.

UTILITY NOTES:

1. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE. BUILDING SERVICE CONNECTIONS (ELECTRIC, GAS, TELEPHONE, WATER AND SANITARY) ARE NOT SHOWN. CONTRACTOR IS TO ASSUME SERVICES ARE PRESENT TO ALL BUILDINGS.
2. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES BOTH UNDERGROUND AND OVERHEAD BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH CHAPTER 39-1.2 OF THE R.I. GENERAL LAWS ENTITLED "EXCAVATION NEAR UNDERGROUND UTILITY FACILITIES", WITH AMENDMENTS EFFECTIVE AS OF NOVEMBER 1, 2009 AND, WHEN NECESSARY, BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY APPLICABLE CITY, TOWN, STATE OR FEDERAL AGENCY. THE CONTRACTOR SHOULD UNDERSTAND THAT NOT ALL UTILITIES SUBSCRIBE TO THE DIG SAFE PROGRAM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES AND ENSURE THAT ALL UTILITIES HAVE BEEN MARKED PRIOR TO COMMENCING THEIR WORK. ANY DAMAGE TO EXISTING UTILITIES MARKED IN THE FIELD, OR AS A RESULT OF FAILING TO CONTACT THE APPROPRIATE UTILITY COMPANY, SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE STATE.
3. ALL EXISTING UTILITIES TO BE ABANDONED SHALL BE CAPPED.
4. EXISTING WATER SERVICES SHALL BE RECONNECTED TO THE NEW WATER MAINS.
5. UTILITY SERVICE CONNECTIONS SHALL BE MAINTAINED TO ALL EXISTING FACILITIES TO REMAIN.
6. FIRE HYDRANTS SHALL NOT BE REMOVED FROM SERVICE WITHOUT WRITTEN AUTHORIZATION FROM THE FIRE DEPARTMENT OR THE WATER AUTHORITY.
7. ALL NEW WATER LINES SHALL BE DISINFECTED TO THE SATISFACTION OF THE WATER AUTHORITY IN ACCORDANCE WITH THE SPECIFICATIONS.
8. ALL UTILITY POLE RELATED WORK SHALL BE BY OTHERS.

Environmental Management
MAR 2 0 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Heather D. Horeck

THIS PLAN SHALL NOT BE ALTERED

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY
1	4/07	TRB
2	3/10	RBH
3	4/14	MLP

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

STANDARD NOTES - 1

CHECKED BY _____ DATE _____ SCALE NO SCALE

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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	05	23

LANDSCAPE NOTES:

1. ALL PLANT MATERIAL MUST BE TAGGED AT THE NURSERY (A RECOGNIZED GROWER OF PLANT MATERIAL) IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION. ALL PLANT MATERIAL MUST BE NURSERY GROWN; NO PLANTATION GROWN PLANT MATERIAL WILL BE ACCEPTED.
2. ALL PLANT SUBSTITUTIONS AND/OR CHANGES IN PLANT LOCATION MUST BE APPROVED IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. ALL PLANT MATERIAL IS TO BE FIELD LOCATED BY A REPRESENTATIVE FROM THE R.I.D.O.T. LANDSCAPE ARCHITECTURE UNIT.
4. A R.I.D.O.T. LANDSCAPE REPRESENTATIVE MUST BE ON SITE TO APPROVE ALL TRIMMING AND CLEARING NECESSARY TO COMPLETE THE WORK AS SHOWN ON THE PLANS.
5. ANY TOPSOIL USED AS PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM TO SECTION M.18 OF THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
6. ALL TREES AND SHRUBS SHALL BE MULCHED WITH PINE BARK MULCH IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
7. ALL TREES AND/OR SHRUBS THAT ARE PLANTED AS A BED SHALL BE MULCHED AS A BED.
8. PROVIDE A MINIMUM 6'–8" BRANCHING STANDARD ON ALL TREES INSTALLED ADJACENT TO SIDEWALKS AND/OR PEDESTRIAN ACCESS AREAS.

STRUCTURAL NOTES FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS:

GENERAL

1. ALL SUPPORT DESIGNS AND ASSOCIATED SHOP DRAWING REVIEWS SHALL BE IN CONFORMANCE WITH THE LATEST EDITION, OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS (THE "SPECIFICATIONS"), INCLUDING THE LATEST INTERIM SPECIFICATIONS, EXCEPT AS MODIFIED HEREIN.

CONSTRUCTION DRAWINGS AND DETAILS

1. THE FOLLOWING NOTES SHALL BE INCLUDED ON ALL PLANS AND/OR SHOP DRAWINGS IN REFERENCE TO ANCHOR BOLTS:
   - "PRETENSIONING OF ALL ANCHOR NUTS IS REQUIRED, AND SHALL BE ACCOMPLISHED BY TIGHTENING TO 1/6TH TURN BEYOND THE SNUG–TIGHT POSITION."
   - "THE MAXIMUM CLEARANCE BETWEEN THE BOTTOM OF THE LEVELING NUTS AND THE TOP OF THE CONCRETE IS CRITICAL AND SHALL NOT EXCEED THE AMOUNT SPECIFIED ON THIS DRAWING."
2. THE USE OF GROUT UNDER BASE PLATES SHALL GENERALLY NOT BE PERMITTED. IF SPECIFIC CONDITIONS WARRANT ITS USE, THE GROUT SHALL NOT BE CONSIDERED LOAD CARRYING; LOADS SHALL BE DIRECTLY SUPPORTED BY THE ANCHOR BOLTS. ADEQUATE DRAINAGE SHALL BE PROVIDED.
3. THE DAMPENING EFFECTS OF VIBRATION MITIGATION DEVICES SHALL NOT BE CONSIDERED IN THE DESIGN OF STRUCTURAL SUPPORTS FOR SIGNS AND TRAFFIC SIGNALS. IF THE CONTRACTOR CHOOSES TO USE THESE DEVICES FOR WARRANTY PURPOSES, THE TYPE OF DEVICES PROPOSED SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO FABRICATION OF SUPPORTS.

TRAFFIC SIGNAL NOTES:

1. ALL SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE R.I.D.O.T. MAINTENANCE HEADQUARTERS, 360 LINCOLN AVENUE, WARWICK, RHODE ISLAND, 02888.
2. BACK PLATES SHALL BE INSTALLED ON ALL TRAFFIC SIGNAL HEADS.
3. THE CONTRACTOR SHALL SUPPLY AND INSTALL ON THE UPPER LEFT HAND CORNER OF THE BACK OF THE CONTROLLER CABINET DOOR A LAMINATED INTERSECTION GRAPHIC AND TABLE DEPICTING THE TRAFFIC DETECTOR RELAY CHANNEL ASSIGNMENTS. THE DIAGRAM SHALL BE A GRAPHIC OF THE INDIVIDUAL INTERSECTION ORIENTED SIMILAR TO THE PLANS SHOWING THE LOCATIONS OF EACH OF THE LOOP DETECTORS. THE DIAGRAM SHALL, AT A MINIMUM, INCLUDE DETECTOR NUMBERS, STREET NAME LABELS, NORTH ARROW, AND CONTROLLER CABINET LOCATION. THE ASSIGNMENT INFORMATION SHALL BE INCLUDED IN A TABLE WHICH SHALL INCLUDE, AT A MINIMUM, THE APPROACH NAME, DETECTOR NUMBER, TERMINAL NUMBER, DETECTOR RACK SLOT NUMBER, RELAY NUMBER, RELAY CHANNEL NUMBER, AND PHASE ASSOCIATED WITH EACH DETECTOR.
4. TRAFFIC CONTROLLER CABINETS, UNLESS OTHERWISE NOTED, SHALL BE NEMA TS2 TYPE 1 CABINET SIZE 6 ("P" TYPE) WITH NOMINAL DIMENSIONS OF 52"Hx44"Wx24"D.
5. ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED LOOP DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER AND NOT THE DETECTOR RELAY.
6. A BARE GROUND WIRE SHALL BE PLACED IN ALL PVC CONDUITS AND SHALL BE BONDED TO GROUND RODS IN ACCORDANCE WITH SECTION T.03 OF THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. THE FINAL POSITION OF SIGNAL HEADS, PEDESTRIAN PUSHBUTTONS, DETECTORS, AND STOP LINE AND CROSSWALK PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD ACCORDING TO ACTUAL INTERSECTION CHARACTERISTICS.
8. A 2' MINIMUM BUFFER SHALL BE PROVIDED BETWEEN THE CURB AND ALL LATERAL OBSTRUCTIONS (INCLUDING ALL SIGNAL POLES AND TRAFFIC/PEDESTRIAN SIGNAL HEADS) TO PROVIDE ADEQUATE CLEARANCE FOR TURNING VEHICLES.
9. ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
10. WHEN PLACING TRAFFIC SIGNAL HANDHOLES OR CONDUIT IN EXISTING PORTLAND CEMENT CONCRETE SIDEWALKS, THE ENTIRE SIDEWALK SQUARE OF CONCRETE SHALL BE REPLACED IN ACCORDANCE WITH R.I. STD. 43.1.0. NO PATCHES WILL BE ALLOWED.
11. ALL PEDESTRIAN PUSHBUTTONS SHALL BE COMPLIANT WITH "THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES" (ADAAG) AND SHALL INCLUDE A PRESSURE–ACTIVATED (NON–MOVING) BUTTON. SIGNS APPLICABLE TO PUSHBUTTON ACTUATION SHALL BE INSTALLED SUCH THAT THE CROSSING ASSIGNED TO EACH BUTTON IS CLEARLY INDICATED. IF SITE CONDITIONS DO NOT ALLOW PEDESTRIAN PUSHBUTTONS TO BE INSTALLED WHERE CALLED FOR ON THE PLANS, THE R.I.D.O.T. TRAFFIC ENGINEERING UNIT SHALL BE CONSULTED WITH THROUGH AN R.F.I. PRIOR TO INSTALLING THE PUSHBUTTONS. THE FINAL PLACEMENT OF ALL PEDESTRIAN PUSHBUTTONS SHALL BE IN ACCORDANCE WITH ADAAG AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
12. ALL LOOP DETECTORS SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
13. ALL LOOP DETECTORS SHALL BE CUT INTO THE FINAL PAVEMENT SURFACE COURSE.
14. TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FIRE PRE–EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
15. THE CONTRACTOR SHALL WORK CONTINUOUSLY TO RESTORE TRAFFIC SIGNAL OPERATION TO ITS INTENDED PURPOSE WHEN REPLACING THE TRAFFIC SIGNAL EQUIPMENT. A POLICE DETAIL IS REQUIRED TO DIRECT TRAFFIC AT THE INTERSECTION AT ALL TIMES WHEN THE TRAFFIC SIGNAL IS INOPERATIVE. AT NO TIME SHALL THE CONTRACTOR LEAVE THE SITE BEFORE RESTORING FULL TRAFFIC OPERATIONS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONTROL SETUPS, SIGNS, CHANNELIZING DEVICES, ETC., SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. ALL SIGN MOUNTINGS FOR TEMPORARY AND CONSTRUCTION SIGNS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. STANDARD SPECIFICATIONS, LATEST EDITION.
3. THE CONTRACTOR SHALL COVER ALL EXISTING AND/OR TEMPORARY SIGNS THAT ARE NOT RELEVANT TO THE TRAFFIC CONTROL REQUIRED DURING ANY PARTICULAR STAGE OF THE CONTRACT.
4. ADVANCE FLAGPERSON SIGNS (W20–7A) SHALL BE USED IN ADVANCE OF ANY POINT AT WHICH A FLAGPERSON OR A POLICE OFFICER HAS BEEN STATIONED TO CONTROL TRAFFIC. WHEN NEEDED, AN APPROPRIATE DISTANCE MESSAGE MAY BE DISPLAYED ON A SUPPLEMENTAL PLATE (24"x18") BELOW THE FLAGPERSON SYMBOL SIGN. THE SIGN SHALL BE PROMPTLY REMOVED OR COVERED WHENEVER THE FLAGPERSON IS NOT AT THE STATION.
5. POLICE OFFICERS (AND NOT FLAGPERSONS) SHALL BE UTILIZED WHEN WORK WILL IMPACT SIGNALIZED INTERSECTIONS AND LIMITED ACCESS HIGHWAYS.
6. POLYETHYLENE DRUMS SHALL BE UTILIZED AS A CHANNELIZING DEVICE WHEN A TRAFFIC CONTROL SET–UP IS TO REMAIN BEYOND WORKING HOURS WHEN NO WORKERS ARE PRESENT. CONES SHALL BE UTILIZED WHEN A TRAFFIC CONTROL SET–UP IS TO REMAIN ONLY DURING WORKING HOURS AND IS SUBSEQUENTLY BROKEN DOWN AT THE END OF THE WORKDAY.
7. ARROW PANELS SHALL BE SET IN THE FLASHING FOUR CORNERS CAUTION MODE UNLESS UTILIZED FOR A MERGING TAPER. ARROW PANELS SET IN THE FLASHING ARROW MODE SHALL NOT BE UTILIZED FOR LANE SHIFTS.
8. TEMPORARY CONSTRUCTION SIGNS AND OTHER WORKZONE TRAFFIC CONTROL DEVICES THAT ARE DAMAGED OR REQUIRE RELOCATION SHALL BE REPLACED AND / OR RELOCATED UNDER THE PAY ITEM FOR "MAINTENANCE AND MOVEMENT TRAFFIC PROTECTION."
9. THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS SHALL NOT BE PARKED ON THE TRAVEL LANES OR SHOULDERS. THEY MAY BE PARKED WITHIN THE STATE RIGHT–OF–WAY ONLY IN AREAS 30' BEYOND THE OUTSIDE EDGE OF THE TRAVEL LANES AND/OR IN AREAS APPROVED BY THE ENGINEER.
10. TEMPORARY CONSTRUCTION SIGNS AND OTHER TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC, AND SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER APPROPRIATE.
11. THE INTENDED VEHICLE PATHS THROUGH EACH WORK ZONE SHALL BE CLEARLY MARKED AT ALL TIMES. WATERBORNE PAVEMENT MARKINGS SHALL BE INSTALLED BEFORE THE END OF THE WORK SHIFT ON ALL COLD–PLANED AND NEW ROADWAY SURFACES THAT WILL BE OPENED TO TRAFFIC AT THE END OF THE SHIFT.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Marlon D. Wenck

Environmental Management
MAR 2 0 2015
Office of Water Resources

THIS PLAN SHALL NOT BE ALTERED

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY
1	4/07	TRB
2	11/07	TRB
3	3/10	RHB

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

STANDARD NOTES - 2

CHECKED BY _____ DATE _____ SCALE NO SCALE

0171B_V1_05_STDNOTES02

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FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
1	R.I.		2014	06	58

23

EXISTING FEATURES LEGEND

CI	DRAIN CURB INLET
DMH	DRAIN MANHOLE
—OHW—	OVERHEAD WIRES
—COX—	COX COMMUNICATION LINES
BIT. CONC.	BITUMINOUS CONCRETE
RCP	REINFORCED CONCRETE PIPE
CD	COMBINATION DRAIN
PWW	PAVED WATERWAY
SPEED LIMIT 30	SIGN PANEL LEGEND

JOB SPECIFIC LEGEND

A	BITUMINOUS ASPHALT 2" HOT MIX ASPHALT – MODIFIED CLASS 12.5 2 1/2" HOT MIX ASPHALT – CLASS 19 12" GRAVEL BORROW SUBBASE COURSE
ASF	AREA SUBJECT TO FLOODING
BVGC	BRIDGE VERTICAL GRANITE CURB
CB	COMMON BORROW
CSPS	CORRUGATED STEEL PIPE SLEEVE
DGC	REMOVE AND DISPOSE GRANITE CURB
DMW	REMOVE AND DISPOSE MONITORING WELL
EE X	EARTH EXCAVATION (WITH DEPTH INDICATED BY X")
ETEA	GUARDRAIL END TREATMENT ENERGY ABSORBING TERMINALS
FS	COMPOST FILTER SOCK
FTB	FLOATING TURBIDITY BARRIER
INPR	CATCH BASIN INLET PROTECTION
M	PLACEMENT OF MILLING BENEATH GUARDRAIL (4" DEPTH)
MM	MICRO MILLING (2" DEPTH)
NUP	NEW UTILITY POLE (BY OTHERS)
PO	PAVEMENT OVERLAY CLEAN AND SWEEP PAVEMENT AFTER MICRO MILLING ASPHALT EMULSION TACK COAT 2" HOT MIX ASPHALT – MODIFIED CLASS 12.5
SBAE	STEEL BEAM GUARDRAIL APPROACH END SECTION
SBTE	STEEL BEAM GUARDRAIL TRAILING END SECTION
SRR	DUMPED STONE RIP-RAP, R-4, 2' DEPTH OVER 6" FS-2 BEDDING STONE OVER FILTER FABRIC FOR RIP-RAP
TTS	TEMPORARY TRAFFIC SIGNAL
7.3.9	GRANITE RAMP STONE
19.6.0	LOOP VEHICLE DETECTOR (STDS, 19.6.0A & 19.6.0B)
20.1.0	TURNING ARROW, RIDOT STD 20.1.0
6WT	6" FAST DRYING WATERBORNE PAVEMENT MARKING – WHITE
12WT	12" FAST DRYING WATERBORNE PAVEMENT MARKING – WHITE

GENERAL NOTES

1. THE EXISTING CONDITIONS FEATURES SHOWN ON THE PLANS BETWEEN STA 109+00 AND STA 119+23 WERE PRODUCED FROM AERIAL PHOTOGRAPHY BY EASTERN TOPOGRAPHICS AND LIMITED FIELD SURVEY BY WATERMAN ENGINEERING COMPANY.
2. THE EXISTING CONDITIONS FEATURES SHOWN ON THE PLANS BETWEEN STA 95+29 AND STA 109+00 WERE DEVELOPED FROM AVAILABLE PLANS. THEREFORE, CONSIDER THE LOCATION OF FEATURES WITHIN THESE STATIONS TO BE APPROXIMATE.
3. FIELD CHECKING WAS PERFORMED TO VERIFY TYPES AND LOCATIONS OF CERTAIN STRUCTURES.
4. THE BASELINE SHOWN ON THESE PLANS IS NOT HISTORIC.
5. ALL ITEMS NOT REFERENCED FOR MODIFICATION WILL BE "EXISTING TO REMAIN" UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. ANY DAMAGE TO EXISTING STATE OR PRIVATE PROPERTY CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.
7. ALL TREE TRIMMING WORK REQUIRED SHALL BE PERFORMED BY THE CONTRACTOR.

   CONTRACTOR SHALL NOT PARK OR STORE CONSTRUCTION VEHICLES OR EQUIPMENT UNDER THE DRIPLINE OF TREES.
8. PRIOR TO PAVEMENT PLACEMENT, CONTRACTOR SHALL PROVIDE CUT & MATCH LINES AS INDICATED ON THE PLAN. CUT AND MATCH LINES SHALL MATCH
9. EXISTING PAVEMENT JOINTS AT ALL SIDE STREETS AND STATE LINE.

   FAST-DRYING WATERBORNE PAVEMENT MARKING PAINT SHALL BE PLACED IN ACCORDANCE WITH SECTION T20.03.4 OF THE STANDARD SPECIFICATIONS AND THE
10. REQUIREMENTS OF THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", INCLUDING ALL ADDENDA. PRIOR TO WINTER SHUTDOWN, EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED ON FINAL RIDING SURFACE OF ROADWAYS THAT WILL BE OPEN TO TRAFFIC AT THE COMPLETION OF THE CONSTRUCTION SEASON AND SHALL REMAIN IN PLACE DURING THE ENTIRE WINTER SEASON.

    FINAL EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED NO SOONER THAN TWO WEEKS AFTER THE COMPLETION OF FINAL PAVING OPERATIONS BUT NO LATER
11. THAN FOUR (4) WEEKS.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

1. ALL CONSTRUCTION SIGNING AND TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO PERFORMING ANY CONSTRUCTION OPERATIONS WHICH MAY POSE A HAZARD TO TRAFFIC.
2. ALL MOVING OPERATIONS INCLUDING STRIPING, PLACEMENT OF DRUMS, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST EDITION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D) AND ALL REVISIONS.
3. COMPLETE CLOSURE OF THE ROADWAY AND DETOURING OF NEWMAN AVENUE (ROUTE 152) TRAFFIC WILL ONLY BE ALLOWED AS DEFINED IN THE MAINTENANCE AND PROTECTION OF TRAFFIC PLAN. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF EAST PROVIDENCE AND THE ENGINEER BEFORE SCHEDULING ROAD CLOSURES.
4. FLAGPERSONS SHALL BE USED TO CONTROL CONSTRUCTION TRAFFIC ENTERING AND LEAVING THE WORK AREA.
5. TEMPORARY CONSTRUCTION SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF WORK.
6. TEMPORARY CONSTRUCTION SIGNS SHALL BE PLACED SO THEY DO NOT ENCROACH ON OPEN LANES OF TRAFFIC.
7. CONSTRUCTION VEHICLES SHALL NOT ENCROACH OPEN LANES OF TRAFFIC EXCEPT WHEN ENTERING AND EXITING THE WORK ZONE. CONSTRUCTION OPERATIONS SHALL NOT ENCROACH UPON OPEN LANES OF TRAFFIC AT ANY TIME.
8. CHANNELIZING DEVICES AND ADVANCE WARNING SIGNS SHOULD BE PLACED BEYOND THE MINIMUM DISTANCES SHOWN, IF NEEDED TO MAINTAIN THEIR VISIBILITY TO MOTORISTS WHERE SIGHT DISTANCE IS RESTRICTED.
9. IF THE WORK SPACE, INCLUDING ALL EQUIPMENT AND PERSONNEL IS MORE THAN 15 FEET FROM THE EDGE OF THE PAVEMENT, ADVANCE WARNING SIGNS ARE NOT REQUIRED.
10. A BUFFER SPACE IS REQUIRED FOR ALL WORK ZONES.
11. "ROAD WORK AHEAD" SIGNS AND "END CONSTRUCTION" SIGNS SHALL BE PLACED BEYOND THE WORK LIMITS.
12. ALL SUBCONTRACTORS EMPLOYED BY THE CONTRACTOR OR RIDOT ON THIS PROJECT SHALL WORK WITHIN THE SAME PROTECTED WORK AREAS AS THE CONTRACTOR. NO SEPARATE CLOSURES WILL BE ALLOWED.
13. THE TRAFFIC CONTROL DETAILS ARE ONLY INTENDED TO PROVIDE GENERAL GUIDANCE TO THE CONTRACTOR, AND DO NOT ENCOMPASS ALL CIRCUMSTANCES.
14. EMERGENCY VEHICLE ACCESS SHALL BE MAINTAINED AT ALL TIMES
15. ACCESS TO ABUTTERS SHALL BE MAINTAINED AT ALL TIMES

JOB SPECIFIC DRAINAGE, UTILITY, AND EROSION CONTROL NOTES:

1. SANITARY SEWER, GAS, WATER, AND OTHER UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
2. ALL EXISTING MANHOLES, CATCH BASINS AND ROADWAY BOXES FOR ALL UTILITIES WITHIN THE PAVING LIMITS SHALL BE ADJUSTED TO GRADE AS REQUIRED EXCEPT WHERE REPLACEMENT IS CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR IS HEREBY MADE AWARE THAT EXISTING UTILITIES, INCLUDED BUT NOT LIMITED TO EXISTING WATER AND DRAIN PIPES; DRAINAGE AND SEWER STRUCTURES; GAS LINES AND UTILITY POLES, MAY NEED TO BE PROTECTED AND/OR SHORED UP DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS UNDER THIS PROJECT. THE COST OF THE ADDITIONAL WORK REQUIRED FOR THE PROTECTION, MAINTENANCE AND SUPPORT OF THESE OR OTHER EXISTING ABOVEGROUND OR UNDERGROUND UTILITIES IN THE VICINITY OF THE PROPOSED WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK UNDER THIS CONTRACT.
4. EXISTING DRAINAGE INVERT ELEVATIONS SHALL BE MAINTAINED EXCEPT AS NOTED ON THE PLAN.
5. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE ALL CONTROLS AS NEEDED OR DIRECTED IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN. MAINTENANCE SHALL BE CARRIED OUT IN ACCORDANCE WITH SECTION 212 OF THE RIDOT STANDARD SPECIFICATIONS, AMENDED 2013 AND ALL REVISIONS. THE CONTRACTOR IS RESPONSIBLE FOR CARRYING OUT ALL NECESSARY MAINTENANCE DURING ALL PHASES OF PROJECT CONSTRUCTION INCLUDING PERIODS OF "WINTER SHUTDOWN".

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
MAR 20 2015
Office of Water Resources

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

JOB SPECIFIC
LEGEND AND NOTES

CHECKED BY K.I. DATE _____ SCALE NO SCALE

0171B_V1_06_JSNOTSYM

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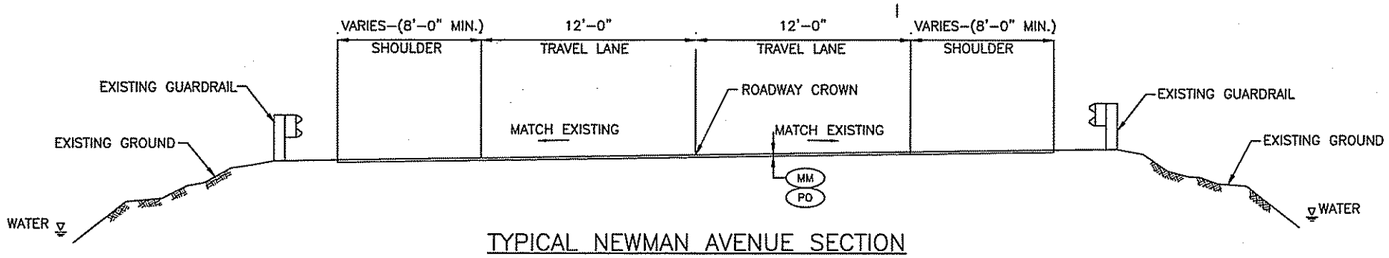
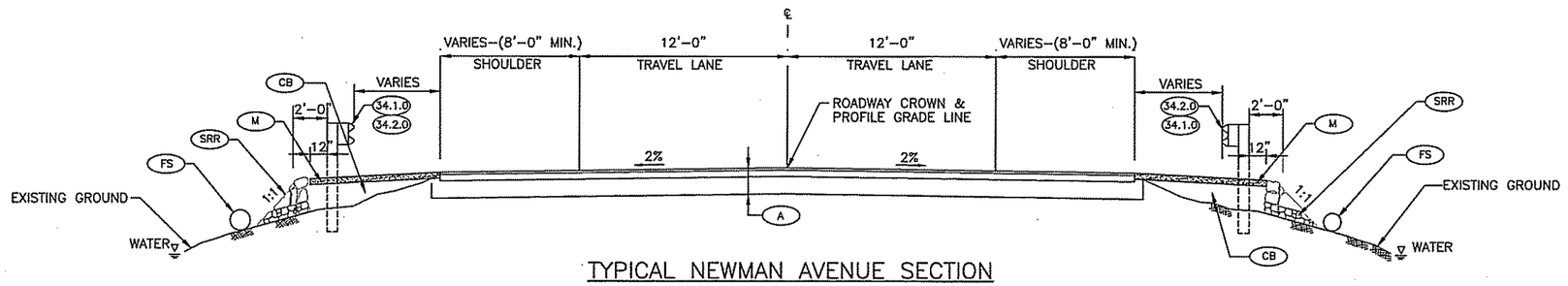
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	07	23



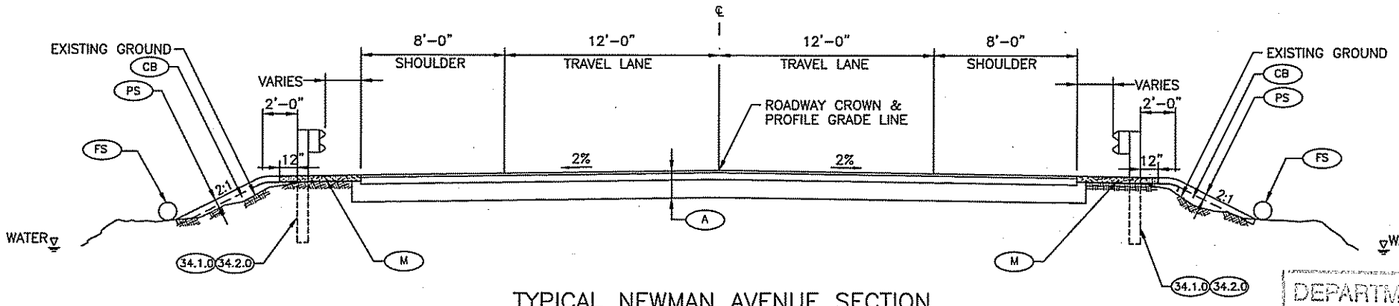
TYPICAL NEWMAN AVENUE SECTION
STA. 115+50 TO STA. 119+23

SCALE: 1/8" = 1'–0"



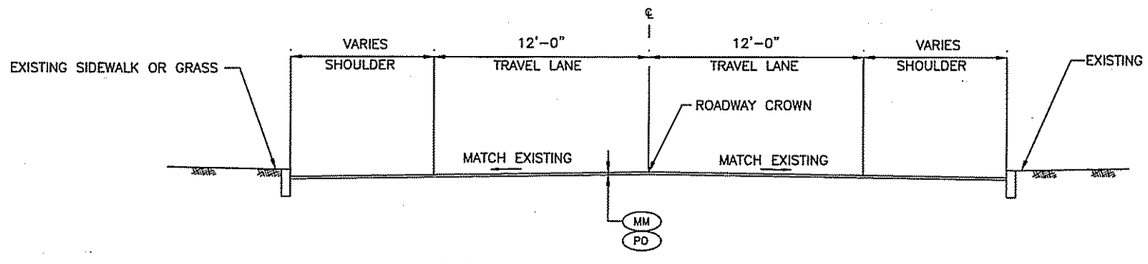
TYPICAL NEWMAN AVENUE SECTION
WITH DUMPED STONE RIPRAP ON SLOPES
STA. 113+50 TO STA. 115+50

SCALE: 1/8" = 1'–0"



TYPICAL NEWMAN AVENUE SECTION
STA. 110+00 TO STA. 113+50

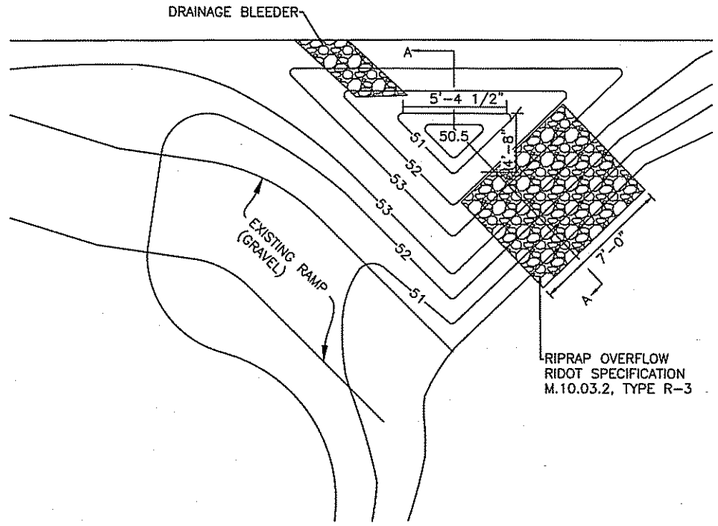
SCALE: 1/8" = 1'–0"



TYPICAL NEWMAN AVENUE SECTION
STA. 97+85 TO STA. 110+00

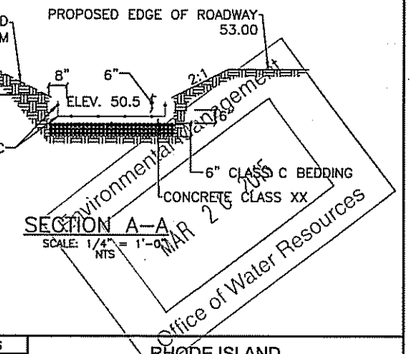
SCALE: 1/8" = 1'–0"

NEWMAN AVENUE



BMP–1–SEDIMENT FOREBAY, STA. 111+67 RT – PLAN

SCALE: 1/4" = 1'–0"
NTS



SECTION A–A

SCALE: 1/4" = 1'–0"
NTS

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin D. Wenek

Environmental Management
MAR 20 2015
Office of Water Resources

REVISIONS		
NO.	DATE	BY

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE — RHODE ISLAND

TYPICAL
DETAILS NO. 1

CHECKED BY K.I. DATE _____ SCALE AS NOTED

01171B_V1_07_TYPICAL

F:\Projects\2009\2011\2011.0010\Drawings\Current Design\Preliminary Determination of Applicability\01718_V1_006_TYPICAL APPROACH SECTIONS — Layout 1.dwg SCALE AS NOTED DATE: 3/19/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	08	37

23

BEGIN R.I. CONTRACT NO. XXXX-XX-XXX
R.I. F.A. PROJECT NO. XXX-XXXX(XXX)
STA. 97+85.00

MATCH TO PLAN 2

BARNEY STREET

PAVILION AVENUE

NEWMAN AVENUE (ROUTE 152)

ADELE AVENUE

GERTRUDE AVENUE

#251 GARAGE #261 #271 #287 #301 #303

#195 #1 #2 #217 #223 #3 #2 #245

98+00 99+00 100+00 101+00 102+00 103+00 PC 103+35.35 104+00

SCALE IN FEET
0 40 100 FEET
HORZ. 1"=40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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NO.	DATE	BY

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

GENERAL PLAN NO. 1

CHECKED BY K.I. DATE _____ SCALE 1"=40'

0171B_V1_08_GENPLAN01

F:\Projects\2009\2011\2011001\Drawings\Current Design\Preliminary Determination of Applicability\XXXX_V1_08_GENPLAN01.dwg SCALE:1"=20'-0" DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	09	23

MATCH TO PLAN 1

MATCH TO PLAN 3

N

BISHOP AVENUE

NEWMAN AVENUE (ROUTE 152)

PLEASANT STREET

#303 #307 #11 #321 #324–#326 #325 #330 #331 & #332 #340 #344

03+35.35 104+00 105+00 PRC 105+34.74 106+00 107+00 108+00 PRC 108+29.16 109+00

GRANITE CURB GRASS BIT. CONC. DRIVEWAY 3.5' CL FENCE SIGN UP # 18 W/SIGN UP # 21 UP # 22 W/SIGN UP # 23 UP # 24 UP # 24 1/2 UP #25 W/ LIGHT LOD SHRUBS 3' STONE WALL STEPS & STONE WALL LANDSCAPE TIMBERS EDGE OF PAVEMENT STONE WALL

SMH AFC MM PO AG CG AW WG MB BD OHW

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wenock

Environmental Management
MAR 20 2015
Office of Water Resources

SCALE IN FEET
40 100 FEET
HORZ. 1"=40'

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

GENERAL PLAN NO. 2

CHECKED BY K.I. DATE _____ SCALE 1"=40'

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

01718_V1_09_GENPLAN002

F:\Projects\2000\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\XXXX_V1_009_GENPLAN01.dwg SCALE:1"=40'-0" DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	10	~~17~~ 23

MATCH TO PLAN 2

MATCH TO PLAN 4

N 276600
E 370600

N 276600
E 370800

N 276600
E 371000

N 276400
E 370800

N 276400
E 371000

EDGE OF WATER

406
405
404
403
402
401
400
101
102
103
104

WETLAND EDGE

50.00' PERIMETER WETLAND

DENSE WOODS

CENTRAL POND
(WATER BODY ID R100040091-01A)
(TEN MILE RIVER)

TURNER RESERVOIR
(WATER BODY ID R100040091-01B)
(TEN MILE RIVER)

34.2.0 75'

SBTE

SBAE 25' TAPER G/R OFFSET(TYP.)

34.2.0 157'

LOD

FS

SRR

CSPS

NUP

43.1.0

DC

DMW

BVGC

LS

TT

DG

51.1.0

GRANITE CURBING

METAL BRIDGE RAILING

RC

CONC. SIDEWALK

CONCRETE CURBING

GRANITE

MALL TREE

GUARDRAIL

OHW

SIGN

MM

PO

DFP

A

AFC

RUP

DP #27 W/ LIGHT

DP #28 W/ LIGHT

DUP

43.3.0

48.1.0

7.3.9

7.6.0

7.3.3

7.3.0S

110+00

111+00 SMH

112+00

PT 112+00.04

113+00

114+00

115+00

200' RIVERBANK WETLAND

BMP-1
SEE SHEET 07

NEWMAN AVENUE (ROUTE 152)

209

210

211 EDGE OF WATER

212

24" T

DEADMEN

MONUMENT

ETEA

34.1.0

37.5

SBAE

FTB

BIT. CONC. DRIVEWAY

#366

#308

#308A

SCALE IN FEET
0 20 50 100 FEET
HORZ. 1"=20'

Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wenck

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

GENERAL PLAN NO. 3

CHECKED BY K.I. DATE _____ SCALE 1"=20'

0171B_V1_10_GENPLAN003

P:\Projects\2009\0911\0911.001\Drawings\Current Design\Preliminary Determination of Applicability\XXXX_V1_005_GENPLAN01.dwg SCALE:1"=20'-0" DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	11	27

23

END R.I. CONTRACT NO. XXXX-XX-XXX
R.I. F.A. PROJECT NO. XXX-XXXX(XXX)
STA. 119+23.00

N

MATCH TO PLAN 3

N 276600
E 371000

N 276600
E 371200

N 276700
E 371400

N 276500
E 371400

N 276400
E 371200

NEWMAN AVENUE (ROUTE 152)

100 YEAR FLOOD

EDGE OF WATER

WETLAND EDGE

CRUSHED STONE

DEADMEN

PERIMETER WETLAND 50.00'

APPROXIMATE LOCATION OF STATE LINE

SCALE IN FEET
0 40 100 FEET
HORZ. 1"=40'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
MAR 20 2015
Office of Water Resources

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

GENERAL PLAN NO. 4

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

CHECKED BY K.I. DATE _____ SCALE 1"=40'

0171B_V1_11_GENPLAN004

F:\Projects\12000\12011\12011.001\Drawings\Current Design\Preliminary Determination of Applicability\xxxx_N_008_GENPLAN01.dwg SCALE:1"=20'-0" DATE: 3/20/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	12	12

LIMIT OF MICROMILLING AND PAVEMENT OVERLAY | LIMIT OF FULL DEPTH CONSTRUCTION

LOW POINT ELEV = 53.26
LOW POINT STA = 112+03.45
PVI STA = 111+25.00
PVI ELEV = 52.57
A.D. = 3.64%
K = 68.77

HIGH POINT ELEV = 53.59
HIGH POINT STA = 113+00.04
PVI STA = 113+00.00
PVI ELEV = 53.76
A.D. = −1.35%
K = 73.94

LOW POINT ELEV = 52.70
LOW POINT STA = 114+79.42
PVI STA = 114+75.00
PVI ELEV = 52.58
A.D. = 1.22%
K = 65.73

250.00' VC | 100.00' VC | 80.00' VC

PVC: 110+00 ELEV: 56.27 | PVRC: 112+50 ELEV: 53.42 | PVT: 113+50 ELEV: 53.42 | PVC: 114+35 ELEV: 52.85 | PVT: 115+15 ELEV: 52.79

2.96% | 0.68% | −0.68% | 0.54%

PROP. PROFILE

PROP. LOW CHORD ELEV. 50.23

℄ BRG. WEST ABUT. STA. 112+66.00

℄ BRG. EAST ABUT. STA. 113+34.00

100-YEAR ELEV. 50.73

EXIST. WATER ELEV. 48.8'± (11/04)

TEN MILE RIVER

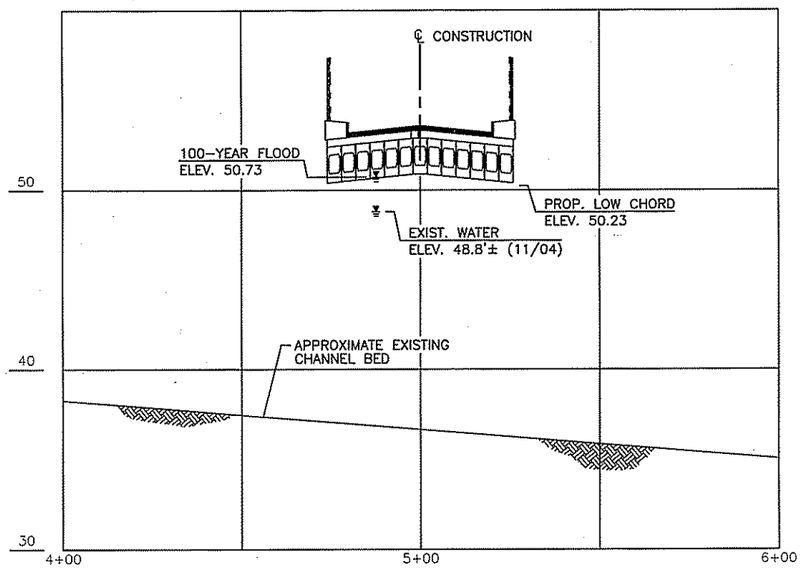
EXIST. PROFILE GRADE

NAVD 88 BASE ELEV 30.00

60 / 50 / 40 / 30

110+00	111+00	112+00	113+00	114+00	115+00
57.9	56.3 / 56.27	54.8 / 54.97	53.6 / 54.04	53.0 / 53.47	52.7 / 53.26
52.6 / 53.42	52.7 / 53.59	52.5 / 53.42	52.5 / 53.08	52.4 / 52.76	52.7 / 52.73	53.0 / 52.98

PROFILE – NEWMAN AVENUE (ROUTE 152)



PROFILE – TEN MILE RIVER

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
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Marian D. Gomez

Environmental Management
MAR 20 2015
Office of Water Resources

HORZ. SCALE 1"=40'
0 50 100 FEET
VERT. SCALE 1"=8'
0 5 10 FEET

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY
1		

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

PROFILE

CHECKED BY K.I. DATE _____ SCALE AS NOTED

0171B_V1_12_GENPROFILE

F:\Projects\2005\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_01B_GENPROFILE_ROY - Profile.dwg SCALE: AS NOTED BMC 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	13	23

E. PROVIDENCE WATER DEPT.
MAP 603
BLOCK 3
PARCEL 3

E. PROVIDENCE WATER DEPT.
MAP 603
BLOCK 3
PARCEL 3

MATCH TO PLAN 2

NEWMAN AVENUE (ROUTE 152)

DENSE WOODS

EDGE OF WATER

SWAMP OUT

GRANITE CURBING

METAL BRIDGE RAILING

CONC. SIDEWALK

CONCRETE CURBING

GRANITE

MON. WELL

GUARDRAIL

SMALL TREES

SIGN

DRAINAGE BLEEDER

PT 112+00.04

UP #27 W/ LIGHT

UP #28 W/ LIGHT

UP #29 W/ LIGHT

UP #30

WEIR AND OVERFLOW

24"T

DEADMEN

MONUMENT

EVERETTS SIGN RAMP

BIT. CONC. DRIVEWAY

MAP 603
BLOCK 4
PARCEL 19

MAP 603
BLOCK 4
PARCEL 18

TEN MILE RIVER
MAP 604
BLOCK 1
PARCEL 39

#366

110+00 C3

111+00

112+00

114+00 L2

115+00

116

211

212

209

210

Newman Ave–Proposed Alignment								
Number	STARTING STATION	NORTHING	EASTING	CURVE DATA	LINE DATA	ENDING STATION	NORTHING	EASTING
C3	108+29.16	276385.927	370340.790	L=370.875 R=7000.000 Δ=003.036 T=185.481		112+00.04	276449.355	370706.157
L2	112+00.04	276449.355	370706.157		L=451.323 N81° 40' 09.56"E	116+51.36	276514.746	371152.717
C4	116+51.36	276514.746	371152.717	L=286.993 R=650.000 Δ=025.298 T=145.874		119+38.35	276616.666	371418.514
L3	119+38.35	276616.666	371418.514		L=84.256 N56° 22' 17.99"E	120+22.61	276663.327	371488.669

E. PROVIDENCE WATER DEPT.
MAP 603
BLOCK 4
PARCEL 17

Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Martin D. Wencek

SCALE IN FEET
0 40 100 FEET
HORZ. 1"=40'

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

LOCATION AND
GRADING PLAN NO. 1

CHECKED BY K.I. DATE _____ SCALE 1"=20'

0171B_V1_13_LOCATIONPLAN001

F:\Projects\2000\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_014_LOCATION GRADPLAN01 - Layout 2.dwg SCALE1"=20'-0" DATE: 3/19/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	14	23

END R.I. CONTRACT NO. XXXX-XX-XXX
R.I. F.A. PROJECT NO. XXX-XXXX(XXX)
STA. 119+23.00

MATCH TO PLAN 1

E. PROVIDENCE WATER DEPT.
MAP 603
BLOCK 3
PARCEL 3

N

NEWMAN AVENUE (ROUTE 152)

115+00 116+00 PC 116+51.36 117+00 118+00 119+00 PT 119+38.35 120+00 120+22.61

CRUSHED STONE

DEADMEN

SIGN

SIGN POLE

GUARDRAIL

OHW

UP #30 UP #31 UP #32 UP #33 UP #2000

WATER DEPT.
03
4
17

E. PROVIDENCE WATER DEPT.
MAP 603
BLOCK 4
PARCEL 17

APPROXIMATE LOCATION OF STATE LINE

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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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Martin D. Wood

SCALE IN FEET
0 40 100 FEET
HORZ. 1"=40'

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

LOCATION AND
GRADING PLAN NO. 2

CHECKED BY K.I. DATE _____ SCALE 1"=40'

0171B_V1_14_LOCATIONPLAN002

F:\Projects\12000\12911\2011\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_014_LOCATION GRADPLAN01 - Layout 2.dwg SCALE:1"=40'-0" DATE: 3/19/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2014	38	51

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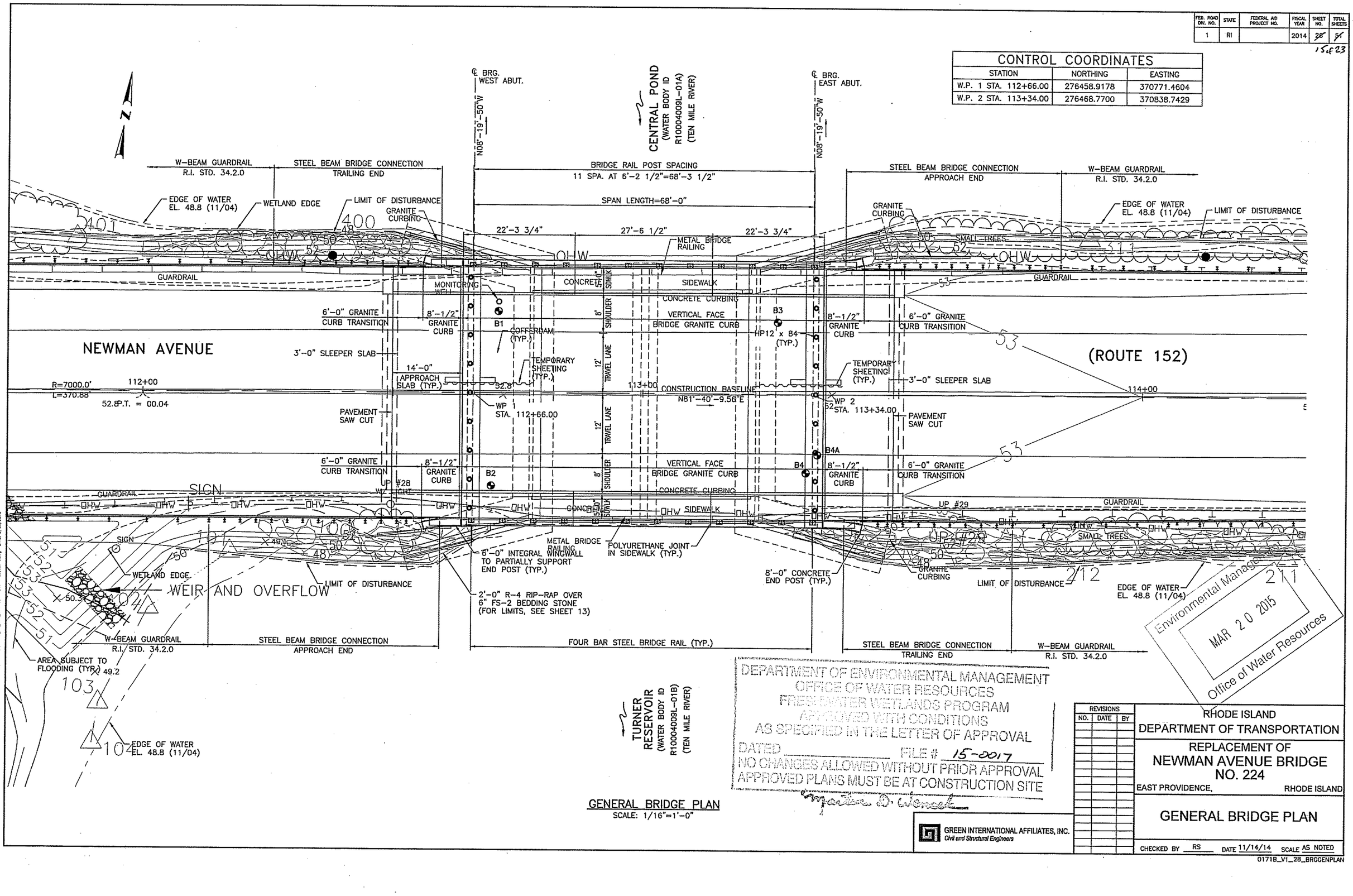
CONTROL COORDINATES

STATION	NORTHING	EASTING
W.P. 1 STA. 112+66.00	276458.9178	370771.4604
W.P. 2 STA. 113+34.00	276468.7700	370838.7429



TURNER RESERVOIR
(WATER BODY ID R100040091-01B)
(TEN MILE RIVER)

GENERAL BRIDGE PLAN
SCALE: 1/16"=1'-0"

Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Stephen B. Venezia

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

GENERAL BRIDGE PLAN

CHECKED BY RS DATE 11/14/14 SCALE AS NOTED

0171B_V1_28_BRGGENPLAN

F:\Projects\2000\2011\2011001\Cmc-sp\Current Bridge\Preliminary Determination of Applicability\0171B_V1_028.dgn GEN PLAN - Layout 1.dwg DATE: 3/20/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2014	27	54

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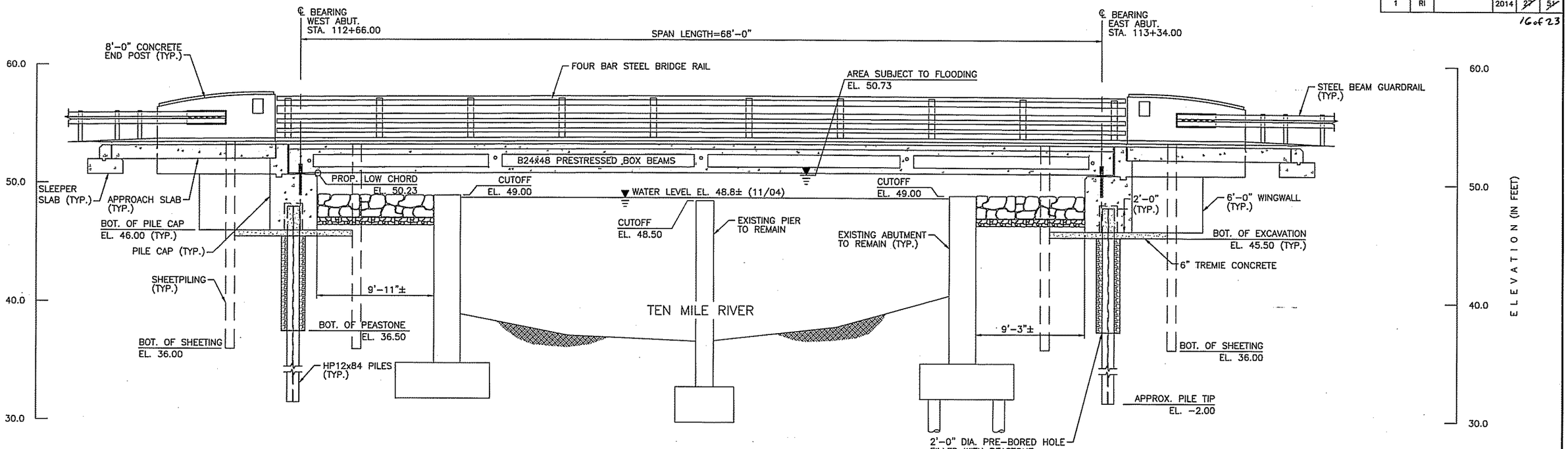
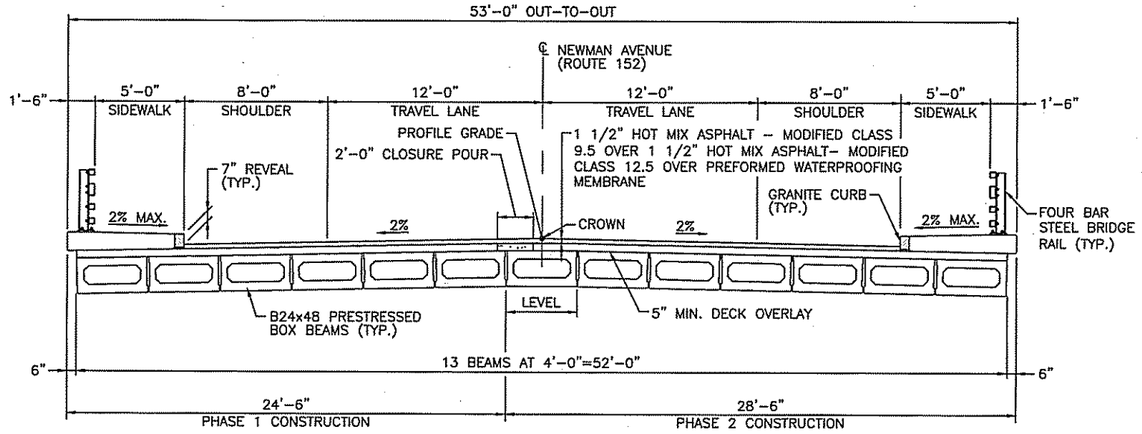


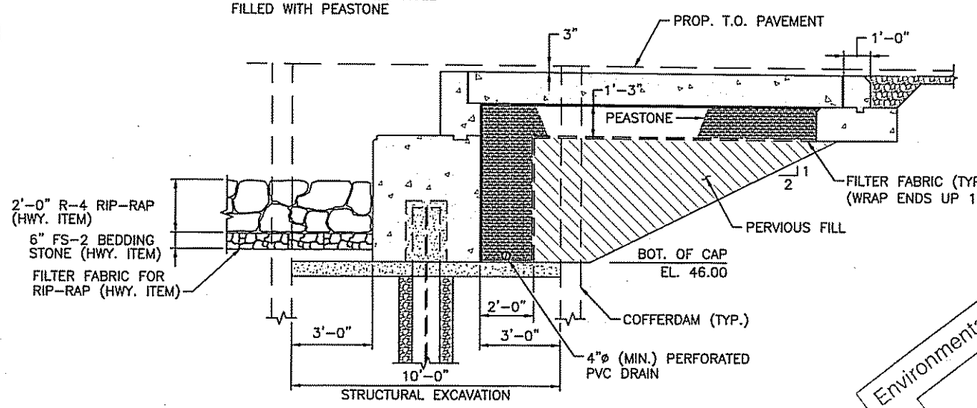
LONGITUDINAL SECTION

SCALE: 1/8"=1'-0"



TYPICAL BRIDGE SECTION

SCALE: 1/8"=1'-0"



PAY LIMIT DETAIL

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

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MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Jennifer D. Horrocks

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

LONGITUDINAL SECTION AND BRIDGE SECTION

CHECKED BY RS DATE 11/14/14 SCALE AS NOTED

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

0171B_V1_27_BRGSEC

F:\Projects\2009\2011\2011001\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_027_LONGSEC BRGSEC - Layout 1.dwg DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2014	38	51

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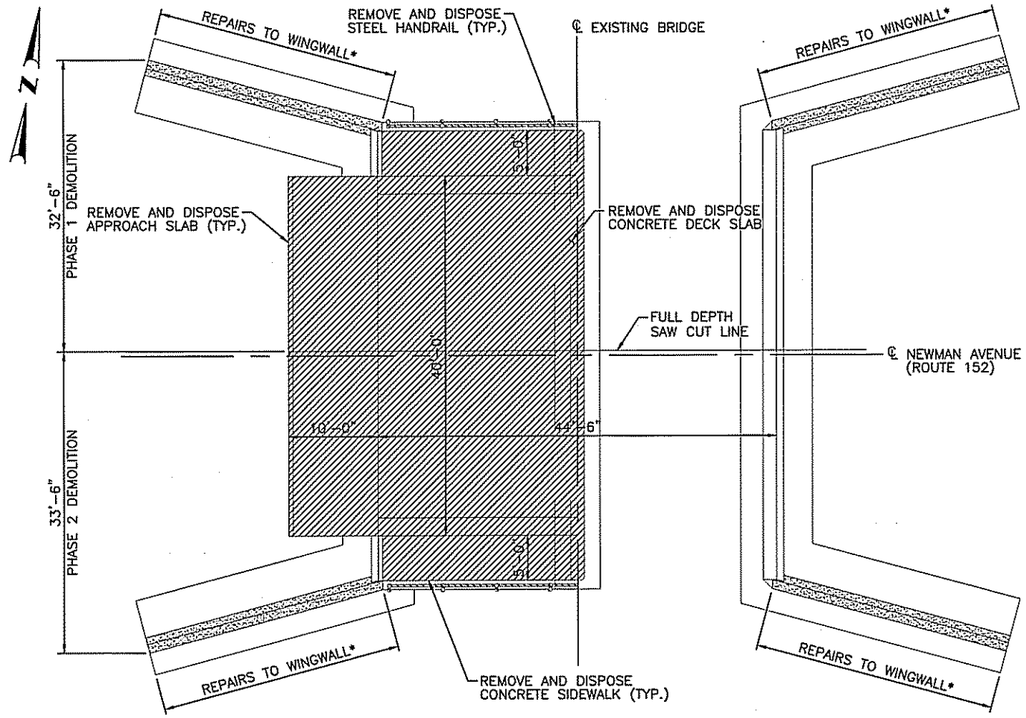
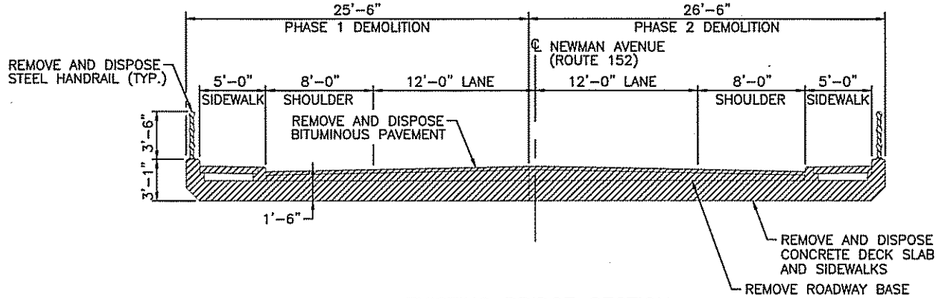


* ACTUAL LIMIT OF CONCRETE REPAIRS WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION

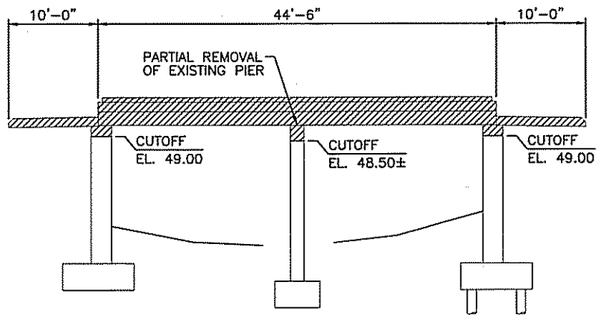
ONE HALF PLAN OF BRIDGE DECK

ONE HALF PLAN OF ABUTMENT AND WINGWALLS

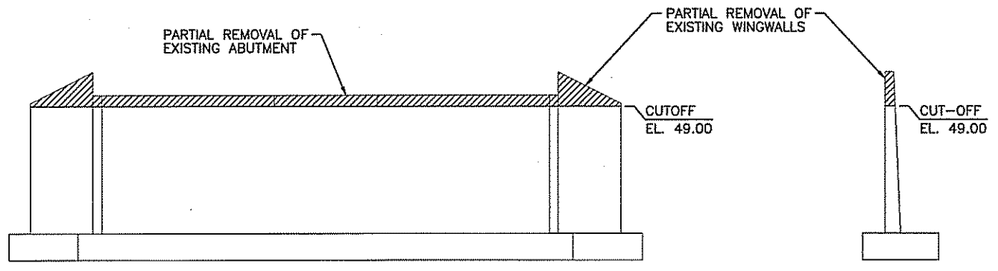
PLAN OF EXISTING BRIDGE
SCALE: 1/16"=1'-0"



EXISTING BRIDGE SECTION
SCALE: 3/32"=1'-0"



LONGITUDINAL SECTION
SCALE: 1/16"=1'-0"



EXISTING ABUTMENT ELEVATION
SCALE: 1/16"=1'-0"

EXISTING WINGWALL SECTION
SCALE: 1/16"=1'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencek

NOTES:

1. ORIGINAL CONSTRUCTION PLANS ARE AVAILABLE FOR INSPECTION AT THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION PLAN ROOM.
2. CONTRACTOR SHALL REPAIR ALL DEFECTIVE AND DETERIORATED AREAS AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISIONS.
3. DIMENSIONS AND ELEVATIONS SHOWN ARE TAKEN FROM THE EXISTING DESIGN DRAWINGS AND CONVERTED TO NAVD 88. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING DIMENSIONS AND ELEVATIONS, PRIOR TO COMMENCING WORK.
4. FOR CONCRETE REPAIR DETAILS, SEE SHEET 35.

LEGEND:

REPAIR AREA

DEMOLITION AREA

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Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

DEMOLITION PLAN

CHECKED BY RS DATE 11/14/14 SCALE AS NOTED

01718_V1_28_DEMOLITION

F:\Projects\2000\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\01718_V1_050_DEMOLITION - Layout 1.dwg DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	RI		2014	28	51

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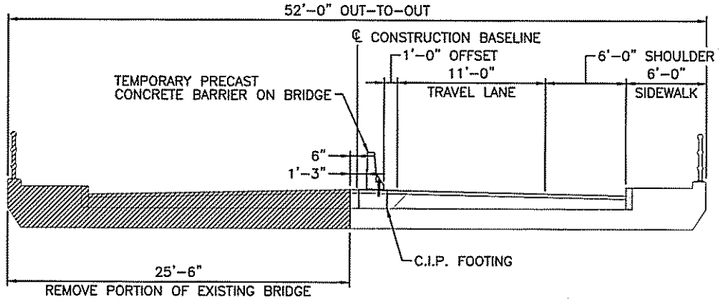
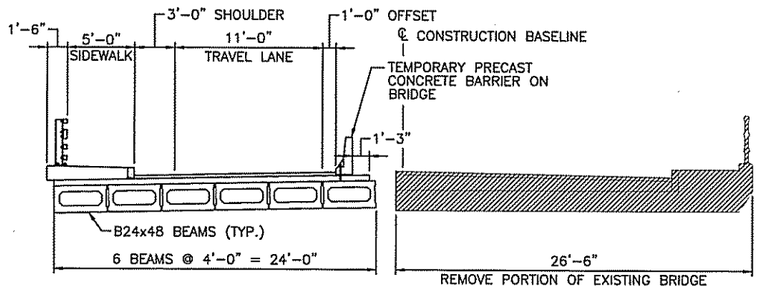
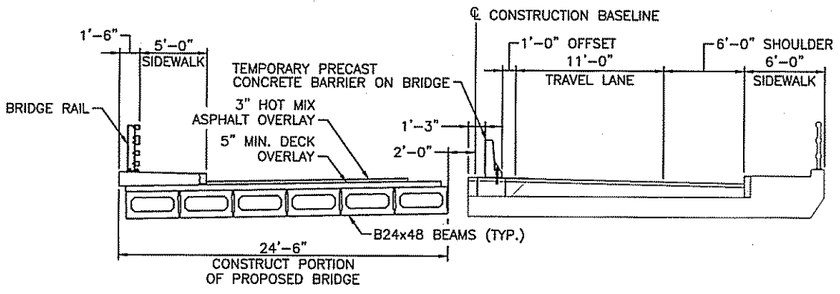


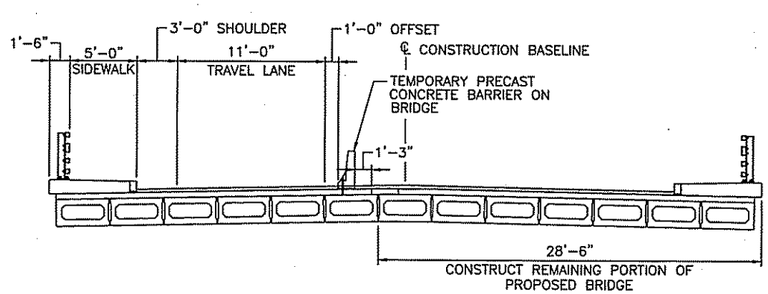
PHASE 1 DEMOLITION
SCALE: 3/32"=1'-0"



PHASE 2 DEMOLITION
SCALE: 3/32"=1'-0"



PHASE 1 CONSTRUCTION
SCALE: 3/32"=1'-0"



PHASE 2 CONSTRUCTION
SCALE: 3/32"=1'-0"

SEQUENCE OF CONSTRUCTION NOTES

1. CONTRACTOR IS ADVISED THAT PHOTOGRAPHIC RECORDS AND GEOTECHNICAL INVESTIGATION SHOW THAT THE REMNANTS OF A PREVIOUS STRUCTURE REMAIN IN PLACE BEHIND THE EXISTING ABUTMENTS. THESE REMNANTS MUST BE REMOVED PRIOR TO COMMENCING BRIDGE CONSTRUCTION.
2. THE SEQUENCE OF CONSTRUCTION PRESENTED BELOW IS INTENDED TO PROVIDE GENERAL GUIDANCE TO THE CONTRACTOR, AND DOES NOT ENCOMPASS ALL DETAILS OR STEPS NECESSARY TO CONSTRUCT THE BRIDGE.

SEQUENCE OF CONSTRUCTION

PRE-PHASE

1. SETUP TRAFFIC CONTROL FOR BRIDGE CLOSURE.
2. INSTALL TEMPORARY EARTH SUPPORT FOR REMOVAL OF REMNANTS IF REQUIRED.
3. EXCAVATE OLD ABUTMENT REMNANTS AND BACKFILL AREA WITH COMMON BORROW. REMOVAL OF OLD ABUTMENT REMNANTS SHALL BE PAID FOR UNDER ITEM 803.9902.
4. PRE-DRILL 2'-0" DIAMETER HOLES TO ELEV. 37.50.
5. DRIVE PILES TO MINIMUM TIP ELEVATION AND BACKFILL HOLE WITH PEASTONE. SEE FOUNDATION PLAN FOR PILE CONSTRUCTION NOTES.
6. APPLY TEMPORARY PAVEMENT.

PHASE 1

7. SETUP TRAFFIC CONTROL FOR LANE SHIFT.
8. INSTALL CONCRETE FOOTING FOR TEMPORARY CONCRETE BARRIER ON EXISTING BRIDGE DECK AT LOCATION SHOWN AND INSTALL BARRIERS.
9. INSTALL DEWATERING BASIN WHERE SHOWN ON THE PLANS.
10. REMOVE PORTION OF EXISTING SUPERSTRUCTURE TO THE LIMITS SHOWN.
11. INSTALL TEMPORARY SHEETING AS SHOWN IN THE PLANS AND DEWATER AS REQUIRED.
12. REMOVE PORTION OF EXISTING ABUTMENTS AND WINGWALLS TO ELEV. 49.00 AND REMOVE PORTION OF PIER TO A MINIMUM OF 48.50 OR 6" BELOW WATER LINE, WHICHEVER IS LOWER.
13. EXCAVATE TO ELEV. 45.50 AND PLACE 12" OF CRUSHED STONE WRAPPED IN FILTER FABRIC AT BOTTOM OF EXCAVATION OR TREMIE CONCRETE AS SHOWN ON THE PLANS.
14. CONSTRUCT NORTHERN PORTION OF BOTH ABUTMENTS INCLUDING THE 1' CONCRETE RETAINING WALL AND BACKFILL TO BEAM SEAT ELEVATION.
15. REMOVE TEMPORARY SHEETING. INSTALL RIPRAP AND BEDDING BETWEEN NEW AND EXISTING ABUTMENTS.
16. CONSTRUCT PORTION OF PROPOSED SUPERSTRUCTURE, INSTALL WATERPROOFING MEMBRANE AND PAVE 1 1/2" HOT MIX ASPHALT – MODIFIED CLASS 12.5.
17. INSTALL TEMPORARY PRECAST MEDIAN BARRIERS ON BRIDGE WHERE SHOWN.

PHASE 2

18. RELOCATE TRAFFIC CONTROL AS SHOWN.
19. INSTALL CONCRETE FOOTING FOR TEMPORARY PRECAST BARRIER ON BRIDGE DECK AT LOCATION SHOWN AND INSTALL BARRIERS.
20. PROCEED AS IN STEPS 10 TO 16 OF PHASE 1 ABOVE.
21. PAVE FINAL 1 1/2" OF WEARING SURFACE ON ENTIRE BRIDGE.
22. REMOVE TRAFFIC CONTROL.

Environmental Management
MAR 20 2015
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Marian D. Wenck

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

CONSTRUCTION SEQUENCE SECTIONS

CHECKED BY RS DATE 11/14/14 SCALE AS NOTED

01718_V1_29_CONSTSEQSECTIONS

F:\Projects\2000\2011\2011.001\Drawings\Current Drwgs\Preliminary Determination of Applicability\01718_V1_031_CONST SEQ SECTIONS - Layout 1.dwg DATE: 3/02/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	43	43

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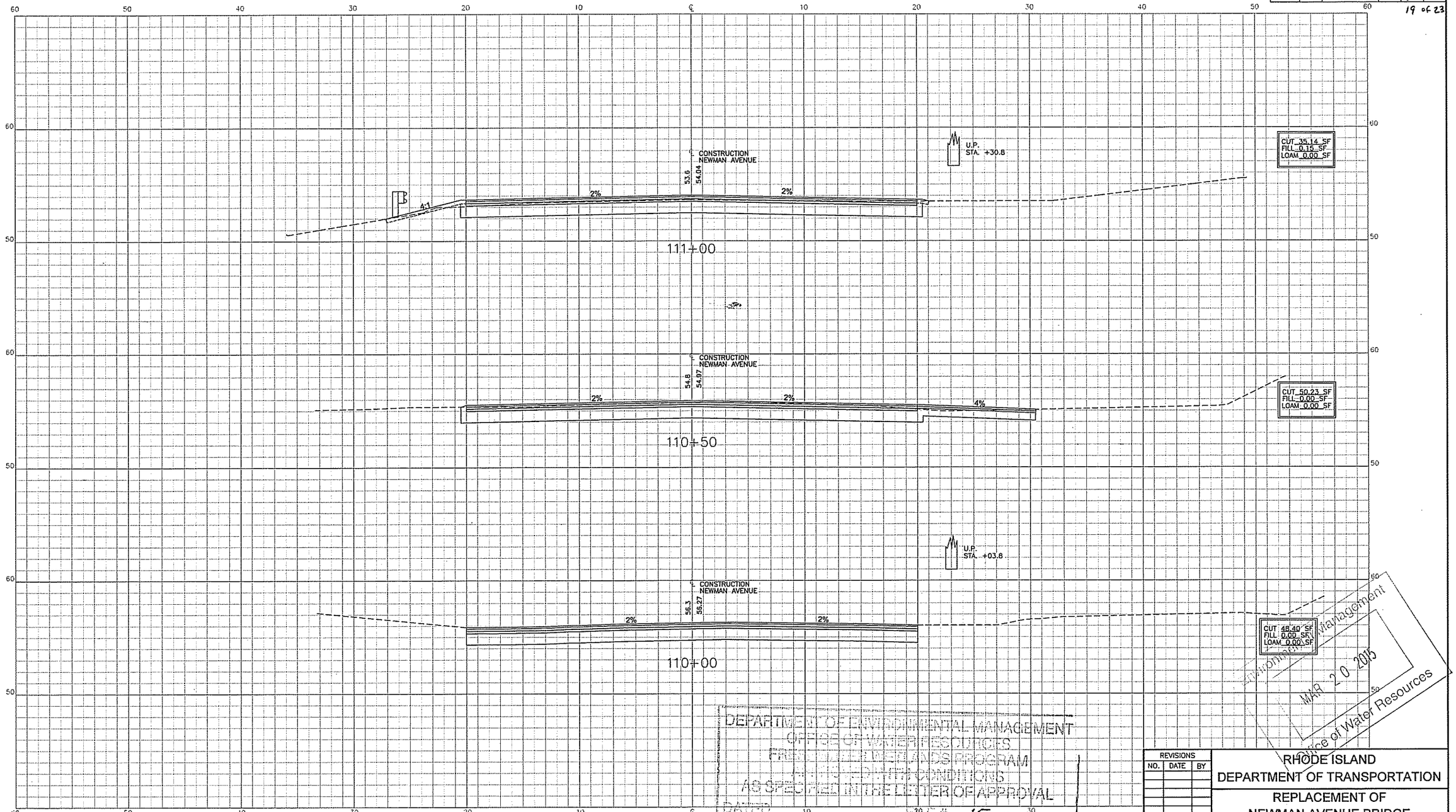

Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
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Marian D. Uzcek

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

REVISIONS		
NO.	DATE	BY

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

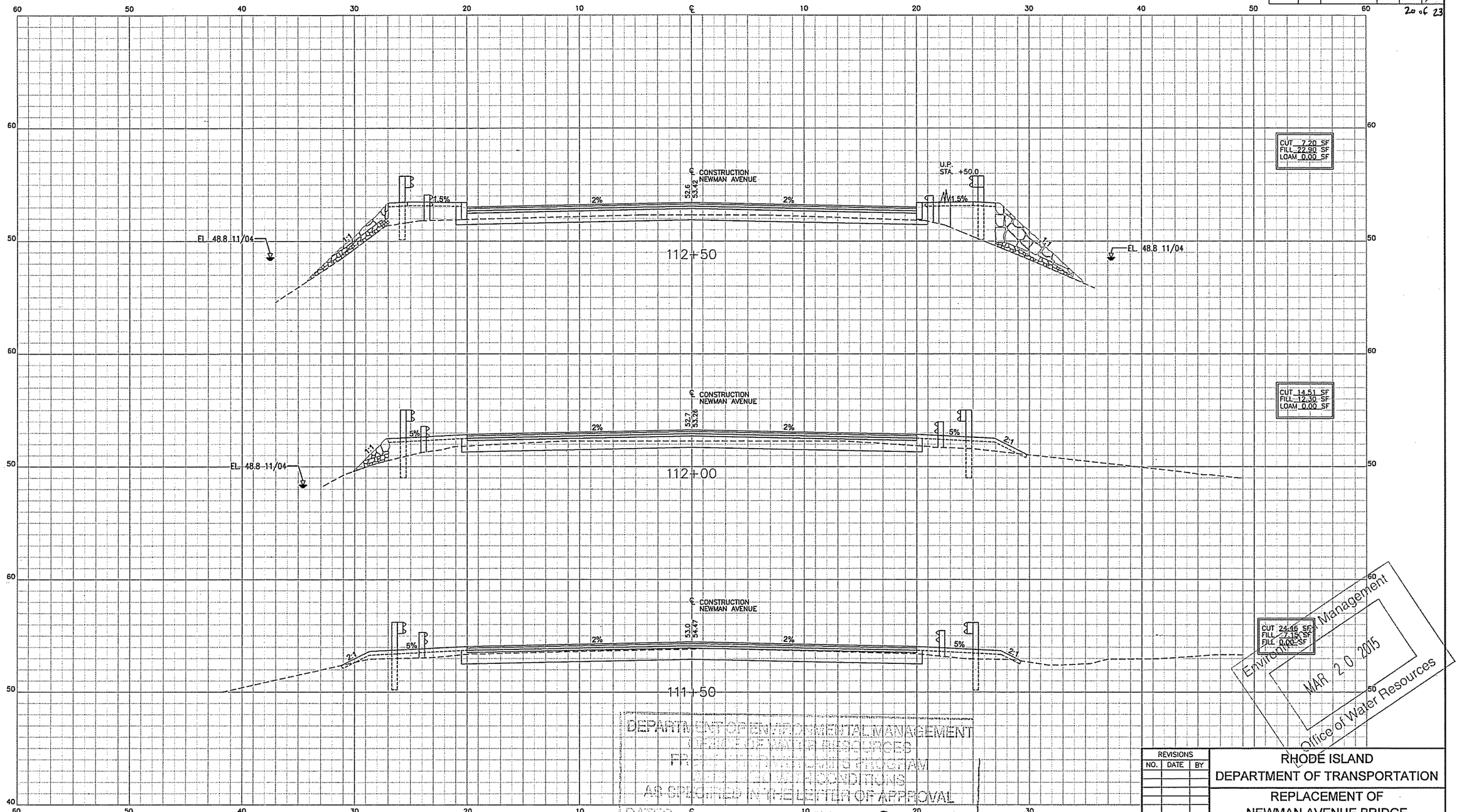
CHECKED BY KI DATE _____ SCALE 1/8"=1'-0"

0171B_V1_43_SEC01

F:\Projects\2000\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_043_SEC01 - Layout 1.dwg SCALE:1"=20'-0" DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	5	17

20 of 23



CUT 24.46 SF
FILL 7.15 SF
FILL 0.00 SF

RECEIVED
Department of Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED ____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Stephen D. Wood

REVISIONS		
NO.	DATE	BY

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

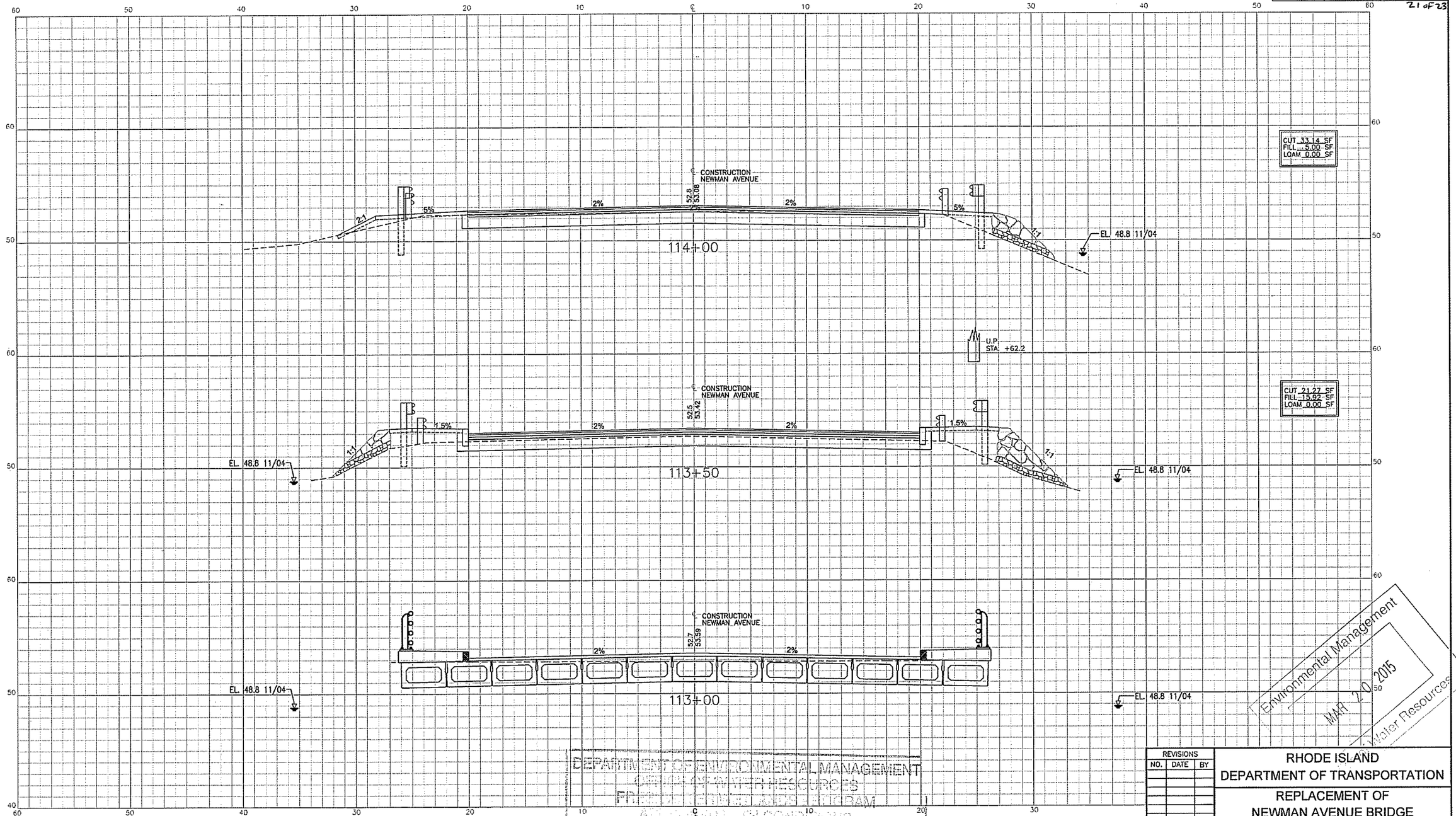
CHECKED BY KI DATE _____ SCALE 1/8"=1'-0"

0171B_V1_44_SEC02

F:\Projects\2000\2011\2011.001\Drawings\Current Design\Preliminary Determination of Applicability\0171B_V1_044_SEC02 - Layout 1.dwg SCALE:1"=20'-0" DATE: 3/09/2015

FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	45	47

21 OF 23



Environmental Management
MAR 20 2015
Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED IN CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Martin D. Wencek

REVISIONS		
NO.	DATE	BY

GREEN INTERNATIONAL AFFILIATES, INC.
Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

CHECKED BY KI DATE _____ SCALE 1/8"=1'-0"

0171B_V1_45_SEC03

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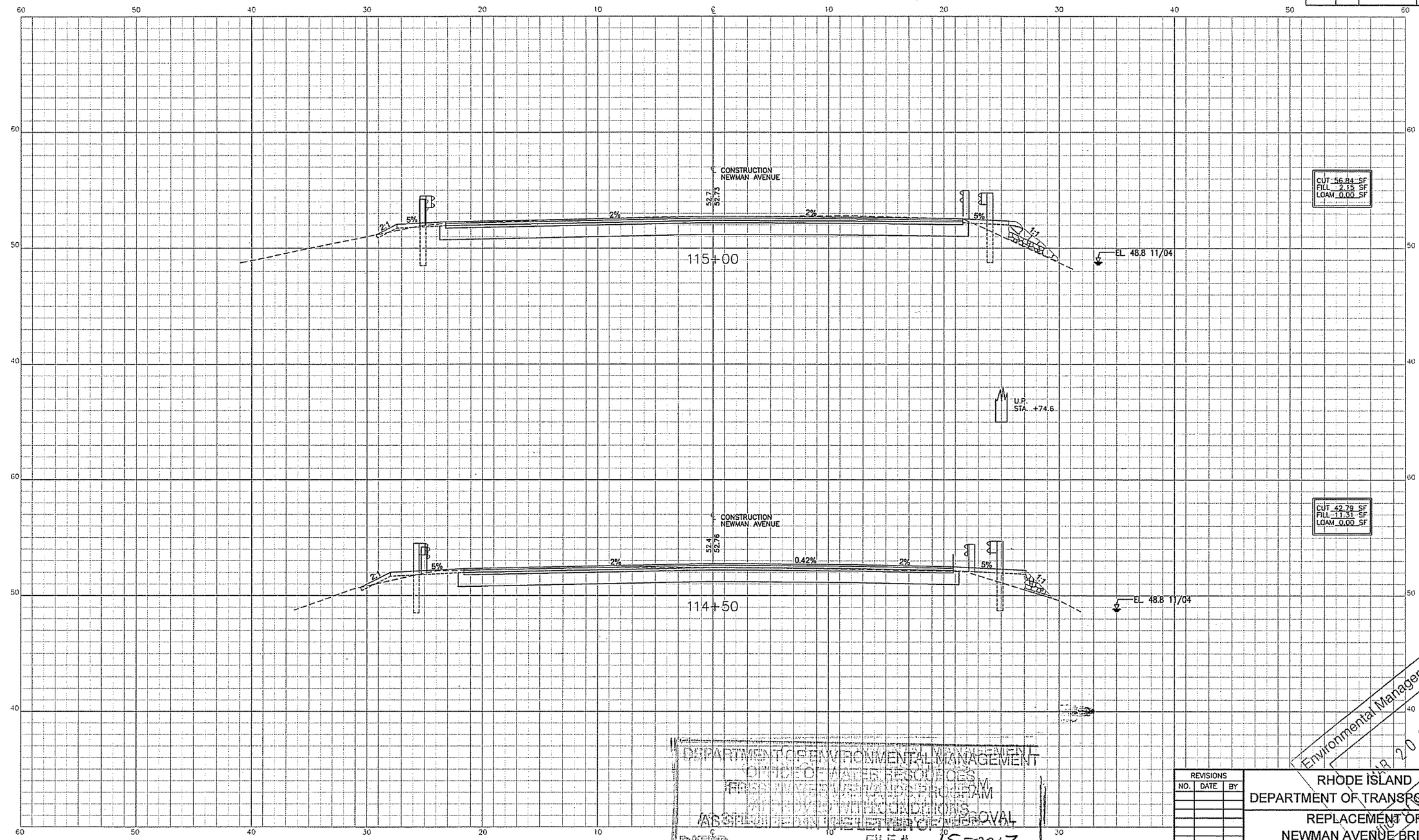
FED. ROAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	38	57

22 of 23



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPLICATION WITH CONDITIONS
AS STIPULATED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Marisa D. Desmond

Environmental Management
JAN 20 2015
Office of Water Resources

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NO.	DATE	BY

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Civil and Structural Engineers

RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224

EAST PROVIDENCE, RHODE ISLAND

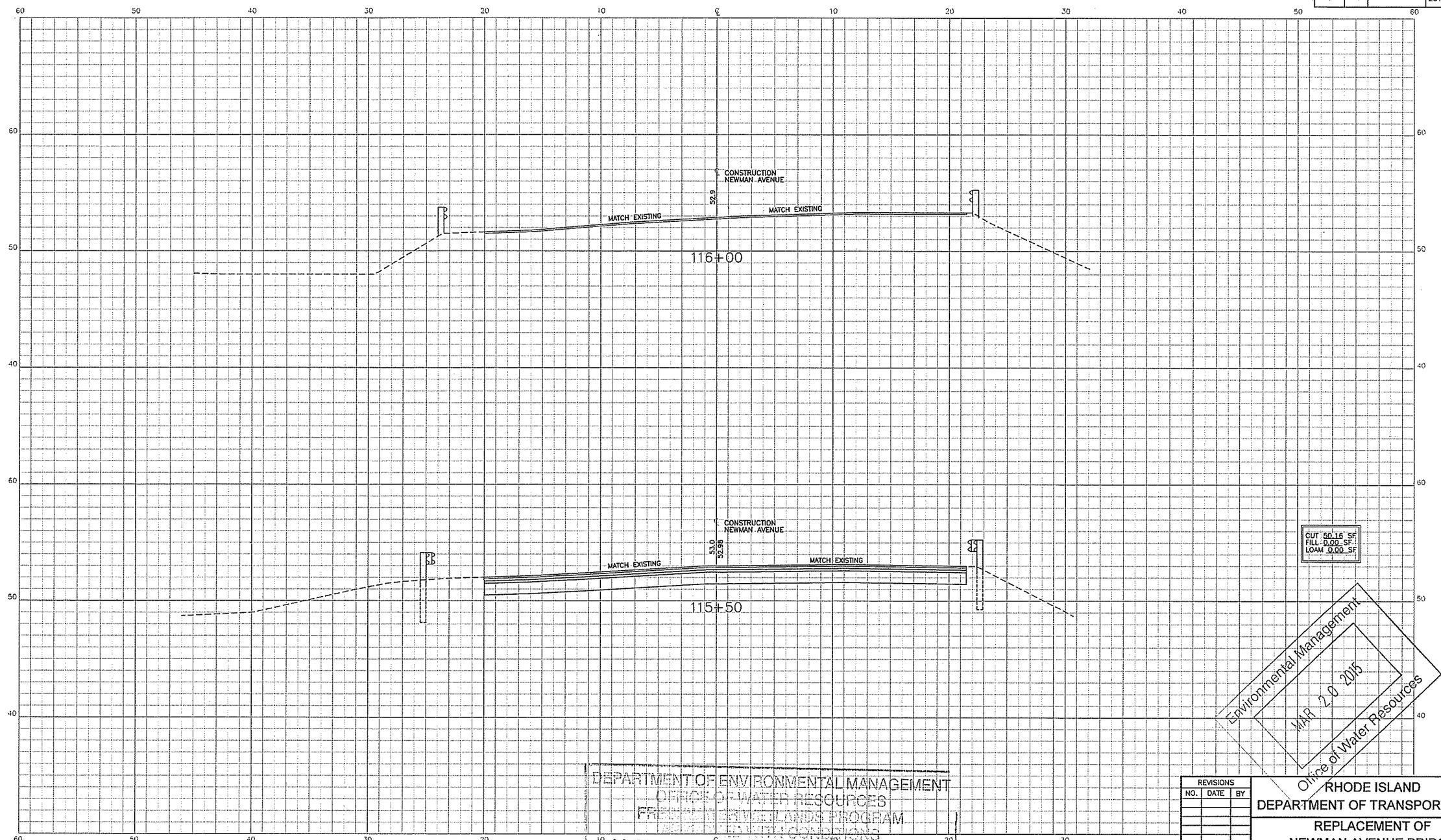
CROSS SECTIONS

CHECKED BY KI DATE _____ SCALE 1/8"=1'-0"

0171B_V1_46_SEC04

FED. RDAD DIV. NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	R.I.		2014	23	23

23 of 23



Environmental Management
MAR 20 2015
Office of Water Resources

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # 15-0017
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

REVISIONS		
NO.	DATE	BY

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RHODE ISLAND
DEPARTMENT OF TRANSPORTATION

REPLACEMENT OF
NEWMAN AVENUE BRIDGE
NO. 224
EAST PROVIDENCE, RHODE ISLAND

CROSS SECTIONS

CHECKED BY KI DATE _____ SCALE 1/8"=1'-0"

0171B_V1_47_SEC05

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