F.H.W.A. REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	D.C.	BH-1103 (029) NH-1103 (030)	3R	134

ITEM	DESCRIPTION	UNIT	QUANTITY	
000 003	EMPLOYEE TRAINING	HR	3720	REVISED
108 002	PROGRESS PHOTOGRAPHS	LS	1	
108 004	AS-BUILT DRAWINGS	LS	1	
201 005	CLEARING AND GRUBBING	LS	1	
202 002	COMMON EXCAVATION	CY	4905	REVISED
204 004	BORROW EMBANKMENT FILL	CY	400	
205 002	STRUCTURE EXCAVATION	CY	3150	
205 009	BRIDGE DEMOLITION	LS	1	
206 004	BORROW STRUCTURE BACKFILL	CY	2400	REVISED
207 002	TRENCH EXCAVATION AND BACKFILL	CY	22	
209 002	AGGREGATE BASE COURSE	CY	2400	REVISED
212 002	TEST PIT	EACH	12	REVISED
309 002	SEWER MANHOLE ON SEWER 48 INCH AND LESS DIA.	VLF	32	
310 008	BASIN CONNECT PCC PIPE, CLASS III, 15 INCH	LF	100	REVISED
311 002	ADJUST SEWER-WATER-UTILITY MANHOLE FRAME	EACH	10	
311 004	RESET SEWER-WATER-UTILITY MANHOLE FRAME	EACH	10	
311 010	ADJUST STANDARD BASIN TOP	EACH	1	
311 025	REPLACE EXISTING BASIN WITH DUAL THROAT WATER QUALITY CATCH BASIN	EACH	15	REVISED
311 027	REPLACE EXISTING BASIN WITH VAN GRATE TYPE WATER QUALITY	EACH	10	
311 063	CLEAN SEWER STRUCTURE	EACH	25	REVISED
313 006	ABANDON BASIN	EACH	1	
314 046	PCC PIPE, CLASS IV, GASKET, 15 INCH	LF	25	
314 065	CLEAN PCC PIPE	LF	300	REVISED
315 002	PIPE SEWER TV INSPECTION - LS -	LS	1	
402 004	SUPERPAVE BASE COURSE, 25 MM	TON	700	
402 012	SUPERPAVE SURFACE COURSE, 12.5 MM	TON	200	
403 002	TACK COAT	SY	4100	
407 002	TEMPORARY AC, SUPERPAVE SURFACE COURSE, 12.5 MM	TON	30	
504 006	PCC DRIVEWAY-ALLEY ENTRANCE, 7 INCH	SY	56	REVISED
506 014	ADDITIONAL STANDARD PORTLAND CEMENT	BAGS	25	
605 002	W BEAM GUIDERAIL	LF	270	
605 004	DOUBLE BEAM GUIDERAIL	LF	13	
605 006	W BEAM GUIDERAIL - BOLTED BASE	LF	94	
605 016	GUIDERAIL APPROACH TERMINAL	EACH	2	
605 018	GUIDERAIL EXIT TERMINAL	EACH	1	
605 022	W BEAM/THRIE BEAM TRANSITION PANEL	EACH	1	
605 038	REMOVE W BEAM/THRIE BEAM GUIDERAIL	LF	8660	
605 043	STEEL BACKED TIMBER (SBT) GUARDRAIL	LF	250	
606 002	PAVEMENT PROFILING (MILLING)	SY	2100	
607 045	FENCE	LF	218	
608 004	PCC SIDEWALK, 4 INCH	SY	500	
608 024	BRICK SIDEWALK ON PCC BASE	SY	90	
609 008	PCC CURB AND GUTTER, 15 TO 18 INCH DEPTH	LF	170	
609 038	PCC GUTTER, 7 TO 10 INCH DEPTH X 12-24 INCH WIDTH	SY	173	REVISED
609 068	FURNISH AND SET 8"X12" GRANITE STRAIGHT CURB	LF	1915	REVISED
609 070	FURNISH AND SET 8"X12" GRANITE CIRCULAR CURB, RADIUS UNDER 10	LF	90	
609 072	FURNISH AND SET 8"X12" GRANITE CIRCULAR CURB, RADIUS 10-100 FT.	LF	230	
609 086	RESET STONE CURB	LF	50	
609 200	PCC WHEELCHAIR/BICYCLE RAMP - NEW CONSTRUCTION	EACH	14	
609 202	PCC WHEELCHAIR/BICYCLE RAMP - EXISTING CONSTRUCTION	EACH	18	
610 018	SOD WITH 3 INCH TOPSOIL	SY	1000	
611 051	TREE TRIMMING AND PRUNING	LS	1	
612 002	MOBILIZATION	LS	1	
614 003	STONE FACED PCC MEDIAN BARRIER	LF	4460	
614 012	PORTABLE PRECAST PCC BARRIER	LF	5400	
614 013	MOVE PORTABLE PCC BARRIER	LF	8550	
615 004	THREE-PLY MEMBRANE WATERPROOFING	SY	240	
616 004	CONSTRUCTION LANE CLOSING	LS	1	REVISED
616 006	REMOVE LANE MARKINGS	SF	8000	
616 008	TEMPORARY CONSTRUCTION SIGN SUPPORTS	EACH	30	
616 012	CONSTRUCTION WARNING AND DETOUR SIGNS	SF	610	
616 014	REFLECTORIZED TRAFFIC CONES	EACH	63	
616 016	FLASHING AMBER WARNING LIGHTS, TYPE "B"	EACH	15	
616 020	SEQUENTIAL ARROW BOARDS	EACH	2	
616 022	CONSTRUCTION SIGN WARNING FLAGS	EACH	17	
616 024	TYPE III PVC BARRICADE	EACH	14	REVISED
616 028	TRAFFIC DRUMS	EACH	120	
616 040	THERMOPLASTIC PAVEMENT MARKING, 4 INCH	LF	19000	
616 042	THERMOPLASTIC PAVEMENT MARKING, 4 INCH DASH	LF	3200	
616 043	REMOVABLE PREFORMED PAVEMENT MARKING, 4 INCH	LF	400	
616 044	THERMOPLASTIC PAVEMENT MARKING, 6 INCH	LF	1650	
616 047	WATER FILLED TRAFFIC BARRIER	LF	800	
616 050	THERMOPLASTIC PAVEMENT MARKING, 12 INCH	LF	600	
616 051	THERMOPLASTIC PAVEMENT MARKING, 24 INCH	LF	3000	
616 052	THERMOPLASTIC PAVEMENT LETTER	EACH	8	
616 054	THERMOPLASTIC PAVEMENT ARROW	EACH	17	
616 057	THERMOPLASTIC PAVEMENT MARKING, BICYCLE SYMBOL	EACH	4	

ITEM	DESCRIPTION	UNIT	QUANTITY	
616 090	CONSTRUCTION ZONE ATTENUATOR	EACH	10	
616 100	SAND-FILLED IMPACT ATTENUATOR MODULE	EACH	11	
616 110	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	3	
616 122	STEEL PROTECTION PLATE	EACH	8	
617 006	REMOVE ABANDONED TRAFFIC SIGNAL OR STREET LIGHT POLE FOUNDATION	EACH	72	REVISED
617 024	FURNISH AND INSTALL GALVANIZED STEEL TRANSFORMER BASE	EACH	42	
617 038	FURNISH AND INSTALL PCC FOUNDATION FOR CONTROLLER CABINET	EACH	4	
617 040	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR MODEL 336-S	EACH	4	
617 042	FURNISH TEMPORARY, PORTABLE, CONCRETE BASE FOR 20 FOOT STEEL	EACH	27	
617 043	RELOCATE EXISTING TRAFFIC SIGNAL CONTROLLER ONTO TEMPORARY	EACH	4	
617 046	FURNISH AND INSTALL 20 FOOT TALL STEEL TRAFFIC SIGNAL POLE	EACH	42	
617 048	FURNISH AND INSTALL 8 FOOT LONG CLAMP ON MAST ARM WITH CLAMP	EACH	14	
617 050	FURNISH AND INSTALL 7 CONDUCTOR 14 AWG STRANDED ELECTRICAL	L.F.	12000	
617 052	FURNISH AND INSTALL 4 CONDUCTOR 18 AWG STRANDED ELECTRICAL	L.F.	5900	
617 068	FURNISH RED BALL LED MODULE	EACH	68	
617 072	FURNISH GREEN BALL LED MODULE	EACH	68	
617 076	FURNISH YELLOW ARROW LED MODULE	EACH	4	
617 078	FURNISH GREEN ARROW LED MODULE	EACH	4	
617 084	FURNISH 12 INCH OVERLAY LUNARWHITE WALKING PERSON AND	EACH	58	
617 086	FURNISH 12 INCH PORTLAND ORANGE COUNTDOWN LED MODULE	EACH	58	
617 090	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL	EACH	47	
617 094	FURNISH AND INSTALL 5 SECTION CONVENTIONAL TRAFFIC SIGNAL	EACH	4	
617 096	FURNISH AND INSTALL 3 SECTION CONVENTIONAL TRAFFIC SIGNAL	EACH	11	
617 099	FURNISH AND INSTALL BOLT-ON UPS SYSTEM	EACH	4	
617 102	FURNISH AND INSTALL 3 SECTION OPTICALLY PROGRAMMABLE TRAFFIC	EACH	7	
617 108	FURNISH AND INSTALL 3 SECTION OPTICALLY PROGRAMMABLE TRAFFIC	EACH	2	
617 114	FURNISH AND INSTALL 2 SECTION CONVENTIONAL PEDESTRIAN SIGNAL	EACH	64	
617 116	FURNISH AND INSTALL 2 SECTION OPTICALLY PROGRAMMABLE	EACH	4	
617 119	FURNISH AND INSTALL APS UNIT WITH CUSTOM MESSAGING	EACH	30	
617 120	FURNISH AND INSTALL MICROWAVE VEHICLE DETECTOR	EACH	2	
617 121	DDOT CCTV CAMERA AND ASSOCIATES EQUIPMENT	EACH	1	
617 124	FURNISH AND INSTALL TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	4	
617 126	REMOVE ABANDONED TRAFFIC SIGNAL CONTROLLER CABINET FOUNDATION	EACH	4	REVISED
617 130	REMOVE TRAFFIC SIGNAL POLE AND TRAFFIC SIGNAL EQUIPMENT	INT.	4	
617 131	FURNISH AND INSTALL CCTV CAMERA COMPLETE	EACH	1	
617 132	REMOVE TRAFFIC SIGNAL CONTROLLER AND CABINET	EACH	4	
617 133	RELOCATE EXISTING CCTV CAMERA ONTO TEMPERARY TRAFFIC SIGNAL	EACH	1	
617 135	FURNISH AND INSTALL A WIRELESS BATTERY-POWERED MAGNETOMETER	LS	1	
618 005	FURNISH AND INSTALL GROUNDING SYSTEM FOR BRIDGE STRUCTURE	LS	1	
618 020	REMOVE MANHOLE/HANDHOLE OVER 24" X 24"	EACH	5	REVISED
618 016	FURNISH AND INSTALL 36" X 36" X 36" MANHOLE	EACH	12	
618 022	FURNISH AND INSTALL 48" X 48" X 48" MANHOLE	EACH	14	
618 023	REMOVAL OF TRANSITE CONDUIT	LF	3900	
618 072	FURNISH AND INSTALL 1-2" SCHEDULE 40 RIGID PVC CONDUIT	LF	445	REVISED
618 100	FURNISH AND INSTALL 1-4" SCHEDULE 40 RIGID PVC CONDUIT	LF	192	
618 109	FURNISH AND INSTALL 10 FT. GROUND ROD IN EXISTING DC MANHOLE	EACH	1	
618 147	FURNISH AND INSTALL 6-4" SCHEDULE 40 RIGID PVC CONDUITS	LF	380	
618 148	FURNISH AND INSTALL 6-4" SCHEDULE 40 RIGID PVC CONDUITS (DUCT	LF	266	REVISED
618 150	FURNISH AND INSTALL 6-4" AND 1-2" SCHEDULE 40 RIGID PVC CONDUITS	LF	122	
618 154	FURNISH AND INSTALL 4-4" SCHEDULE 40 RIGID PVC CONDUITS (DUCT	LF	920	
618 156	FURNISH AND INSTALL 4-4" AND 1-2" SCHEDULE 40 RIGID PVC CONDUITS	LF	35	
618 160	FURNISH AND INSTALL 2-4" SCHEDULE 40 RIGID PVC CONDUITS (DUCT	LF	806	REVISED
618 162	FURNISH AND INSTALL 2-4" AND 1-2" SCHEDULE 40 RIGID PVC CONDUITS	LF	599	
618 172	CLEAN AND ROD EXISTING CONDUIT	LF	100	
618 178	REPAIR OF EXISTING UNDERGROUND CONDUIT	LF	10	
618 190	FURNISH AND INSTALL #10 STRANDED WIRE	LF	2600	
618 196	FURNISH AND INSTALL #8STRANDED WIRE	LF	1500	
618 292	FURNISH AND INSTALL #8 STRANDED GROUND WIRE	LF	1864	
618 310	FURNISH AND INSTALL #2 STRANDED GROUND WIRE	LF	2477	REVISED
618 317	FURNISH AND INSTALL #1/0 BARE COPPER WIRE (GROUNDING)	LF	4500	
618 334	REMOVE CONDUCTORS IN CONDUITS	LF	10000	
618 345	FURNISH AND INSTALL 6-4" DIA PVC COATED RIGID STEEL CONDUITS	LF	100	
618 347	FURNISH AND INSTALL 1-4" DIA RIGID PVC CONDUIT IN BARRIER WALL	LF	4200	
618 349	FURNISH AND INSTALL 1-4" AND 1-2" DIA RIGID PVC CONDUIT	LF	600	
618 355	FURNISH AND INSTALL 2-4" AND 2-2" DIA RIGID PVC CONDUIT	LF	30	
618 369	FURNISH AND INSTALL 1-1/4" DIA RIGID GALVANIZED METAL CONDUIT	LF	190	
618 371	FURNISH AND INSTALL 4/0 RHW-2 COPPER CABLE W/SPLICES	LF	7700	
618 379	FURNISH AND INSTALL 500 MCM RHW-2 COPPER CABLE W/SPLICES	LF	13500	
618 395	FURNISH AND INSTALL 15" BC FOUNDATION FOR STREETLIGHT AND	EACH	47	
618 397	FURNISH AND INSTALL SPREAD FOOTER FOUNDATION	EACH	2	
618 435	FURNISH AND INSTALL GALVANIZED TRANSFORMER BASE	EACH	30	

ITEM	ITEM NUMBER	ITEM	QUANTITY	
618 503	PLUG AND PARGE PEPCO MANHOLE WALL	EACH	6	
618 541	FURNISH AND INSTALL 30X24X18 CAST IRON JUNCTION BOX	EACH	4	
618 542	FURNISH AND INSTALL 28'-6" STEEL PENDANT POLE WITH UP TO 8' ARM	EACH	28	
618 543	FURNISH AND INSTALL 24X18X18 CAST IRON JUNCTION BOX	EACH	32	
618 567	REMOVAL OF STREETLIGHT POST	EACH	55	
618 582	FURNISH AND INSTALL UP TO 28'-6" STEEL PENDANT POLE WITH TWIN UP	EACH	32	
618 668	REMOVE ARM FROM WOOD POLE UP TO 8 FT. IN LENGTH	EACH	1	
618 676	FURNISH AND INSTALL 8 FT. ARM ON WOOD POLE	EACH	1	
618 720	REMOVE LUMINAIRE FROM WOOD POLE	EACH	1	
618 722	REMOVE LUMINAIRE FROM STEEL POLE	EACH	54	
618 755	FURNISH AND INSTALL PHILIPS 135W80LED-RVM LUMINAIRE OR	EACH	71	
618 761	FURNISH AND INSTALL 250W HPS TEARDROP FIXTURE W/LAMP AND	EACH	1	
618 767	FURNISH AND INSTALL PHILIPS 270W160LED-RVM LUMINAIRE OR	EACH	15	
618 779	FURNISH AND INSTALL 400W HPS TEARDROP FIXTURE W/LAMP AND	EACH	7	
618 888	FURNISH AND INSTALL 4" PVC RIGID U-GUARD ON WOOD POLE	LF	160	
618 889	TEMPORARY ROADWAY LIGHTING DESIGN AND CONSTRUCTION	LS	1	
618 999	PAYMENT TO PEPCO FOR CONNECTION AND DISCONNECTION OF	LS	1	
620 014	TRAFFIC SIGN PANELS	SF	100	
620 022	METAL SIGN POST	EACH	40	
620 023	TEMPORARY REMOVAL AND REINSTALLATION OF OVERHEAD SIGN	EACH	2	
620 035	RELOCATE TRAFFIC/GUIDE SIGN	EACH	30	
620 040	FEDERAL AID PROJECT SIGN	EACH	2	
624 002	ENGINEER'S FIELD FACILITIES	LS	1	
625 002	FIELD LAYOUT	LS	1	REVISED
626 002	PROTECTION SHIELD	LS	1	
627 007	5-BAY QUAD GUARD IMPACT ATTENUATOR (24 INCH WIDE)	EACH	2	
628 002	EROSION AND SEDIMENT CONTROL	LS	1	
702 002	SUBFOUNDATION WORK MAT CONCRETE	CY	689	
703 015	APPROACH SLAB	CY	147	
703 021	PREFABRICATED BRIDGE SUBSTRUCTURE	LS	1	
703 023	TEMPORARY SUPPORT FOR UTILITIES	LS	1	
704 002	REINFORCING STEEL	LBS	43905	
704 004	EPOXY COATED REINFORCEMENT BARS	LBS	35926	
706 020	BRIDGE BEARINGS, (EACH)	EACH	36	
706 023	PREFABRICATED BRIAGE SUPERSTRUCTURE	LS	1	
707 002	PAINT NEW METAL WORK	LS	1	
707 010	EPOXY PROTECTIVE COATING	SY	1050	
708 002	STONE MASONRY, CLASS A	CF	160	
708 011	RESET STONE MASONRY	CF	900	
708 013	REPOINT STONE MASONRY	LF	700	
708 015	CLEAN AND RESEAL EXPANSION JOINTS FOR ABUTMENTS AND WALLS	LF	220	
709 005	BRIDGE RAILING	LF	850	
714 004	LATEX-MODIFIED CONCRETE OVERLAY	SY	750	
717 002	ARMORED JOINT WITH NEOPRENE STRIP SEAL	LF	162	
000 515	GEOGRID	SY	3960	REVISED

616 110	PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4	
617 058	*FURNISH AND INSTALL 25 PAIR 19 AWG UNDERGROUND COMMUNICATIONS CABLE*	LF	4200	REVISED
617 060	*FURNISH AND INSTALL 25 PAIR 19 AWG OVERHEAD COMMUNICATIONS CABLE*	LF	*1350*	
617 070	*FURNISH AND INSTALL YELLOW BALL LED MODULE*	*EACH*	*68*	
611 014	*REMOVE TREE AND STUMP 36 TO 42 INCH DIAMETER*	*EACH*	*3*	

Precision Systems, Inc.
Engineers, Planners and Architects
WASHINGTON, D.C.

MODJESKI and MASTERS
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NO.	DESCRIPTION	NAME	DATE
	Addendum Number 4	WKW	3/29/2013

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT
MANAGEMENT ADMINISTRATION

RECONSTRUCTION OF 16TH ST BRIDGE OVER MILITARY ROAD, NW AND MEDIAN BARRIER AND STREET LIGHT IMPROVEMENTS ON MILITARY ROAD

SUMMARY OF QUANTITIES

PROJECT ENG. GP
DESIGNED BY -
CHECKED BY PS
DRAWN BY DS
PROJECT MGR. MI

DIVISION CHIEF

DATE
FILE
SHEET OF

F.H.W.A. REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	D.C.	BH-1103 (029) NH-1103 (030)	4R	134

GENERAL NOTES:

SPECIFICATIONS:

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, CUSTOMARY U.S. UNITS THIRD EDITION (2006 INTERIM REVISIONS).
2. D.C. DEPARTMENT OF TRANSPORTATION - DESIGN AND ENGINEERING MANUAL (2009)
3. AASHTO/AWS D1.5M/D1.5: 2010 BRIDGE WELDING CODE, 6TH EDTION . WITH 2011 AASHTO INTERIM REVISIONS.
4. "STANDARD SPECIFICATIONS FOR HIGHWAYS AND STRUCTURES", DATED 2009, ISSUED BY DISTRICT OF COLUMBIA DEPARTMENT OF TRANSPORTATION, EXCEPT AS AMENDED OR SUPPLEMENTED BY THE SPECIAL PROVISIONS.

ELEVATIONS AND COORDINATES:

ALL ELEVATIONS REFER TO THE D.C. DATUM FOR WHICH - 2.11 FT IS MEAN LOW WATER. COORDINATE SYSTEM REFERS TO MARYLAND STATE PLANE COORDINATE SYSTEM.

INFORMATION DRAWINGS:

1. AS BUILT DRAWINGS OF THE ORIGINAL BRIDGE (BRIDGE NO. 209). (THESE DRAWINGS WILL BE AVAILABLE TO THE CONTRACTOR FOR VIEWING UPON THE CONTRACTOR'S REQUEST)

DESIGN LIVE LOADS:

AASHTO LRFD HL-93 LIVE LOAD.

DESIGN METHOD:

LOAD AND RESISTANCE FACTOR DESIGN METHOD.

MATERIALS AND DESIGN STRESSES:

1. STRUCTURAL STEEL:

ALL NEW STRUCTURAL STEEL INCLUDING, BEAMS, GIRDERS, PLATES, CHANNELS, ANGLES AND SOLE PLATES SHALL CONFORM TO AASHTO M270, GRADE 50W (1) WITH SUPPLEMENTARY REQUIREMENTS FOR NOTCH TOUGHNESS FOR ALL MEMBERS COMPONENTS MARKED (T).

2. BOLTED CONNECTIONS:

ALL HIGH STRENGTH BOLTS AND NUTS SHALL CONFORM TO AASHTO M164 (ASTM A325).

3. BEARINGS:

ELASTOMERIC BEARINGS SHALL CONFORM TO AASHTO M251 WITH THE ELASTOMER HAVING A DUROMETER HARDNESS OF 50.

4. CONCRETE:

UNLESS OTHER NOTED, ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH 28 DAYS COMPRESSIVE STRENGTH f'c = 4500 PSI AND SHALL CONFORM TO THE SPECIFICATIONS ON PCC MIX DESIGN.

f'c = 4,500 psi

5. REINFORCING STEEL:

ALL REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 (ASTM A615 GRADE 60) , UNLESS NOTED OTHERWISE.

fy = 60,000 psi, fs = 24,000 psi

UNLESS OTHERWISE INDICATED, LAP SPLICE LENGTH FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS:

#4 - 2'-4"	#5 - 2'-11"
#6 - 3'-6"	#7 - 4'-5"
#8 - 5'-9"	#9 - 7'-3"

6. FOUNDATIONS:

THE GEOTECHNICAL INVESTIGATION SHALL CONFIRM THAT THE MINIMUM FACTORED ULTIMATE BEARING RESISTANCE, $\phi\ Q_{ULT}$, OF THE FOUNDATION SOIL/ROCK IS AS FOLLOWS:

NORTH ABUTMENT AND WING WALLS : ~~14~~ (1) 7 TSF.
SOUTH ABUTMENT AND WING WALLS : 7 TSF.

REFER TO THE SPECIAL PROVISIONS.

7. EPOXY COATED REINFORCING STEEL:

ALL REINFORCING STEEL IN DECK SLABS , SIDE WALK SLABS, APPROACH SLABS,PARAPETS, MEDIAN BARRIRES ALONG MILITARY ROAD, ABUTMENT WALLS, WING WALLS, AND RETAINING WALLS SHALL BE EPOXY COATED IN ACCORDANCE WITH SPECIFICATIONS, UNLESS NOTED OTHERWISE. THE REINFORCING CONTAINED ENTIRELY IN THE FOOTING SHALL NOT BE EPOXY COATED.

REINFORCED CONCRETE:

MINIMUM CONCRETE COVER:
- DECK SLAB AND SIDEWALKS.
  - TOP 2 1/2"
  - BOTTOM 1 1/2"
- FOOTINGS: 3"
- ABUTMENTS AND WALLS:
  - FRONT FACE 2" (UNLESS OTHERWISE NOTED)
  - REAR FACE 3"
- ALL OTHER LOCATIONS: 2" (UNLESS OTHERWISE NOTED)
- ALLOWANCE FOR FUTURE WEARING SURFACE 25 PSF

BEVELED EDGES:

ALL EXPOSED CONCRETE EDGES SHALL BE BEVELED 3/4" X 3/4", UNLESS NOTED OTHERWISE.

DIMENSIONS:

DIMENSIONS ARE FOR A NORMAL TEMPERATURE OF 60 DEGREES FAHRENHEIT. LAYOUT DIMENSIONS ARE HORIZONTAL MEASUREMENTS.

PROTECTIVE COATING FOR CONCRETE:

APPLY EPOXY PROTECTIVE COATING TO THE EXPOSED SURFACE OF THE ABUTMENT WALL, WINGWALL, SIDEWALK, UPPER AND INSIDE SURFACE OF PARAPET AND AS DIRECTED BY THE ENGINEER.

GENERAL CONSTRUCTION NOTES:

MAINTENANCE OF TRAFFIC:

DURING ALL PHASES OF PROJECT CONSTRUCTION AND FOR THE DURATION OF THE CONTRACT, VEHICULAR AND PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIAL PROVISIONS.

DEMOLITION:

PRIOR TO COMMENCEMENT OF DEMOLITION OPERATIONS, THE METHOD BY WHICH THE ABUTMENT WALLS ARE TO BE STABILIZED FOR THE TEMPORARY CONSTRUCTION CONDITION SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE DISTRICT OF COLUMBIA AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. DEMOLITION OF THE BRIDGE SHALL BE PERFORMED ACCORDING TO THE INDICATED SEQUENCES OF CONSTRUCTION.

DURING THE DEMOLITION PHASE, THE TEMPORARY SUPPORT SYSTEM SHALL BE MAINTAINED UNDER THE PORTION OF THE BRIDGE BEING DEMOLISHED AS WELL AS UNDER THE PORTION OF THE BRIDGE SUPPORTING TRAFFIC. FOR DETAILS, SEE SPECIAL PROVISIONS.

DESIGN OF TEMPORARY SUPPORT SYSTEMS:

CONTRACTOR SHALL DESIGN ALL TEMPORARY SUPPORT SYSTEMS REQUIRED FOR DEMOLITION OF BRIDGE, DEMOLITION OF WINGWALLS AND EXCAVATIONS.

THE TEMPORARY SUPPORTS SHALL INCLUDE BUT NOT LIMITED TO PROVIDING PROTECTION SHIELD, FLOORS, BEAMS, COLUMNS, FOOTINGS, LATERAL SUPPORTS FOR EXISTING ABUMENTS AND WINGWALLS, SUPPORTS FOR EXCAVATIONS, AND OTHER STRUCTURES.

PRIOR TO FABRICATION OF ANY TEMPORARY STRUCTURES, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PLANS AND DESIGN CALCULATIONS FOR SEQUENCE OF DEMOLITION OF THE EXISTING STRUCTURE STABILITY AND STRUCTURE INTEGRITY OF THE REMAINING STRUCTURE THAT WILL BE USED BY THE TRAVELING PUBLIC, DESIGN CALCULATIONS AND METHODS OF ERECTION FOR ALL TEMPORARY SUPPORT SYSTEMS, DESIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE DISTRICT OF COLUMBIA, TO THE ENGINEER FOR REVIEW AND COMMENTS. INCLUDED IN THE CONTRACTOR'S SUBMITTALS SHALL BE ADEQUATE DRAWINGS AND PROCEDURES FOR SAFELY EXECUTING TRANSITIONS OF TEMPORARY SUPPORT SYSTEMS BETWEEN ALL PHASES OF WORKS. AFTER ERECTION, THE PROFESSIONAL ENGINEER SHALL CERTIFY IN WRITING TO THE ENGINEER BEFORE STARTING ANY ACTIVITY FOR DESIGNING OR INSTALLING THE TEMPORARY STRUCTURE THAT THE TEMPORARY SUPPORT SYSTEMS HAS BEEN PROPERLY ERECTED.

MAINTENANCE OF EXISTING UTILITIES:

THE EXISTING UTILITIES SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. THE EXISTING UTILITIES MAY BE TEMPORARILY RELOCATED DUE TO BRIDGE DEMOLITION AND RECONSTRUCTION. IF RELOCATION IS NECESSARY THE CONTRACTOR SHALL SUBMIT RELOCATION PLAN, TEMPORARY SUPPORTS AND DETAILS TO THE ENGINEER FOR APPROVAL BEFORE COMMENCING WORK. UTILITY LINES TO BE MAINTAINED ARE VERIZON TELECOM, STREET LIGHTING, TRAFFIC CONTROL CONDUITS AND LINES, AND DC WATER SANITARY LINES.

DAMAGE TO EXISTING STRUCTURES:

THE CONTRACTOR SHALL IDENTIFY, PROTECT, PRESERVE, ALL EXISTING STRUCTURES AND OTHER ITEMS TO REMAIN. THE CONTRACTOR IS RESPONSIBLE FOR ANY OR ALL DAMAGES TO THE STRUCTURES, UTILITIES, AND OTHER ITEMS DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGED ITEMS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

TEXTURING:

THE ENTIRE SURFACE OF THE BRIDGE DECK AND APPROACH SLABS SHALL BE TEXTURED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PATCHING MATERIALS:

ALL PATCHING MATERIALS PROPOSED FOR USE IN CONCRETE REPAIR SHALL BE FREE OF CHLORIDES.

BONDING NEW CONCRETE TO EXISTING CONCRETE:

ALL NEW CONCRETE SHALL BE BONDED TO EXISTING CONCRETE WITH AN EPOXY RESIN ADHESIVE SYSTEM. THE SURFACES OF EXISTING CONCRETE WHICH ARE TO BE IN CONTACT WITH NEW CONCRETE SHALL BE CLEANED IN ACCORDANCE WITH THE SPECIFICATIONS AND SPECIAL PROVISIONS.

DRILLING HOLES IN CONCRETE:

THE COST OF DRILLING HOLES IN CONCRETE AND GROUTING OF REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE RESPECTIVE CONCRETE ITEM, WHERE DRILLING AND GROUTING IS DONE FOR THE ATTACHMENT OF RAILINGS OR OTHER DEVICES, THE COST SHALL BE PART OF THE ITEM TO BE ATTACHED.

STAY IN PLACE FORMS:

STAY IN PLACE FORMS SHALL NOT BE USED IN THIS PROJECT.

MECHANICAL SPLICES FOR BARS:

MECHANICAL SPLICES SHALL DEVELOP IN TENSION OR COMPRESSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BARS THEY CONNECT. THE COST OF MECHANICAL SPLICE KIT SHALL BE INCLUDED IN THE PRICE FOR CONCRETE.

REINFORCING STEEL:

PROVIDED REBAR SPACINGS ARE CENTER TO CENTER SPACINGS UNLESS OTHER WISE NOTED. PROVIDED REBAR SPACINGS ARE MAXIMUM SPACINGS UNLESS OTHER WISE NOTED.

ANCHOR BOLTS:

TEMPLATES SHALL BE USED FOR DRILLING HOLES AND INSTALLING ANCHOR BOLTS. UNFILLED HOLES SHALL BE PROTECTED AGAINST RUPTURE IN FREEZING WEATHER. EPOXY MORTAR SHALL BE USED TO FILL HOLES AROUND ANCHOR BOLTS. ALL ANCHOR BOLTS SHALL CONFORM TO AASHTO M314 GRADE 55 WITH M291 GRADE A NUTS. PROVIDE STANDARD WASHERS, ASTM F844. GALVANIZE ALL FASTENER COMPONENTS.

PAINT:

ALL STRUCTURAL STEEL FOR SUPERSTRUCTURE INCLUDING BEARINGS SHALL BE PAINTED. THE TOPS OF THE BEAMS IN CONTACT WITH THE BRIDGE DECK SHALL RECEIVE THE PRIME COAT PRIOR TO CONCRETE PLACEMENT. THE COLOR SHALL BE TINTED QUAKER BROWN, CHIP NO. 37056, CONFORMING TO FEDERAL STANDARD NO. 595 (A).

SHEAR KEY:

COAT KEYS WITH A CONCRETE BONDING AGENT, IN ACCORDANCE WITH SPECIFICATIONS PRIOR TO CONCRETE PLACEMENT.

STONE MASONRY:

THE EXISTING ABUTMENTS, WING WALLS, RETAINING WALLS AND BRIDGE FACES ON THE EAST AND WEST SIDES WITH STONE MASONARY FACING SHALL BE DEMOLISHED IN A WAY TO PRESERVE THE INTEGRITY OF THE STONES SO THAT THEY COULD BE REUSED IN THE CONSTRUCTION OF THE NEW BRIDGE ABUTMENTS, WING WALLS, RETAINING WALLS AND PARAPETS. THE REPLACEMENT, RESETTING AND REPOINTING OF STONE MASONRY SHALL CONFORM TO THE REQUIREMENTS OF SPECIAL PROVISIONS. NEW STONE MASONRY SHALL MATCH THE EXISTING ADJASCENT MASONRY TO THE SATIFACTION OF THE ENGINEER.

ALL CAPSTONES FROM THE EXISTING BRIDGE PARAPETS, WINGWALLS AND RETAINING WALLS SHALL BE CAREFULLY REMOVED AND SALVAGED.

VERIFICATION OF EXISTING DIMENSIONS AND ELEVATIONS:

THE D.C. DEPARTMENT OF TRANSPORTATION DOES NOT GUARANTEE THE ACCURACY OF THE ORIGINAL DRAWINGS OF THE STRUCTURES. PRIOR TO CONSTRUCTION AND PREPARATION OF SHOP DRAWINGS, THE CONTRACTOR SHALL FIELD VERIFY THE ACCURACY OF THE DIMENSIONS OF THE EXISTING STRUCTURE INCLUDING UTILITIES SUPPORTED BY THE BRIDGE. IF THESE DIMENSIONS DO NOT AGREE WITH THOSE SHOWN ON THE CONTRACT DRAWINGS OR OF EXISTING BRIDGE DRAWINGS THE CONTRACTOR WITH THE ENGINEERS APPROVAL SHALL MAKE ALL THE NECESSARY ADJUSTMENTS TO THE DIMENSIONS SHOWN ON THE CONTRACT PLANS TO ENSURE THAT THE NEW CONSTRUCTION WILL PROPERLY FIT ONTO THE EXISTING STRUCTURE, NO ADDITIONAL PAYMENT WILL BE MADE FOR FIELD VERIFYING OR ADJUSTING DIMENSION.

UTILITIES:

THE FOLLOWING UTILITIES ARE KNOWN TO HAVE FACILITIES IN THE CONTRACT AREA:

1. POTOMAC ELECTRIC AND POWER COMPANY (PEPCO).
2. DC WATER
3. VERIZON TELEPHONE COMPANY.
4. WASHINGTON GAS CO.
5. THE EXISTENCE OF OTHER UTILITIES IS NOT KNOWN.

THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE BASED UPON FIELD SURVEY DATA AND/OR RECORD DRAWINGS OF THE ORIGINAL LOCATIONS. THE INFORMATION SHOWN IS NOT NECESSARILY COMPLETE AND THE LOCATION OF UTILITIES SHOWN IS APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UTILITIES WELL IN ADVANCE OF CONDUCTING CONSTRUCTION OPERATIONS WHICH COULD DAMAGE THESE FACILITIES. IN THE AREAS WHERE PROPOSED CONSTRUCTION MAY CONFLICT WITH EXISTING UTILITIES, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES. IF AN UNDERGROUND UTILITY IS DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND THE OWNER OF SAID UTILITY. ANY DAMAGE SUSTAINED TO UTILITIES ABOVE OR BELOW THE GROUND SHALL BE REPAIRED BY OR UNDER THE DIRECTION OF THE UTILITY AT THE CONTRACTOR'S EXPENSE. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR BACKFILL AN EXCAVATION AFFECTING SAID UTILITY WITHOUT FIRST RECEIVING PERMISSION FROM THE UTILITY OWNER.

SECTIONS AND DETAILS:

TYPICAL EXAMPLES:

A / 2|5 — SECTION "A" TAKEN ON SHEET NO. 2 AND SHOWN ON SHEET NO. 5.

A / 9 — SECTION "A" TAKEN AND SHOWN ON SHEET NO. 9.

4 / 3|9 — DETAIL "4" TAKEN ON SHEET NO. 3 AND SHOWN ON SHEET NO. 9

MODJESKI and MASTERS
Experience great bridges.

NO.	DESCRIPTION	NAME	DATE
1	USE 50W STEEL & REVISED Ø Q_{ult}	CMC	4-24-13

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT
MANAGEMENT ADMINISTRATION

RECONSTRUCTION OF 16TH ST BRIDGE OVER MILITARY ROAD, NW AND MEDIAN BARRIER AND STREET LIGHT IMPROVEMENTS ON MILITARY ROAD

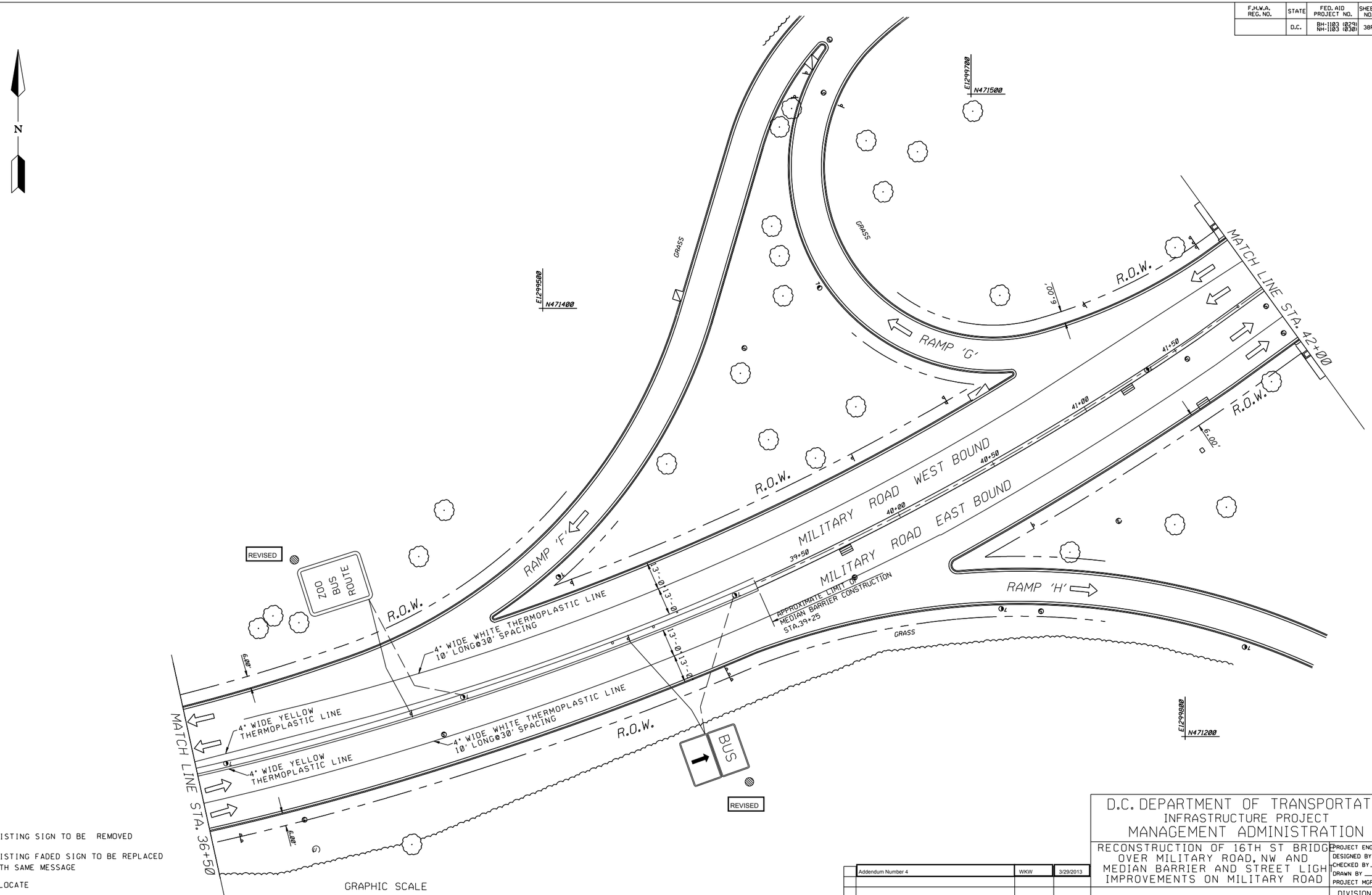
GENERAL NOTES

PROJECT ENG. CMC
DESIGNED BY CMC
CHECKED BY NDT
DRAWN BY DTP
PROJECT MGR. LKH

DIVISION CHIEF

DATE
FILE
SHEET OF

F.H.W.A. REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	D.C.	BH-1103 (029) NH-1103 (030)	38R	134



LEGEND

X EXISTING SIGN TO BE REMOVED

△ EXISTING FADED SIGN TO BE REPLACED WITH SAME MESSAGE

RELOCATE

PROPOSED SIGN TO BE INSTALLED

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)

SCALE: 1" = 20' - 0"

NO.	DESCRIPTION	NAME	DATE
	Addendum Number 4	WKW	3/29/2013

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT
MANAGEMENT ADMINISTRATION

RECONSTRUCTION OF 16TH ST BRIDGE OVER MILITARY ROAD, NW AND MEDIAN BARRIER AND STREET LIGHT IMPROVEMENTS ON MILITARY ROAD

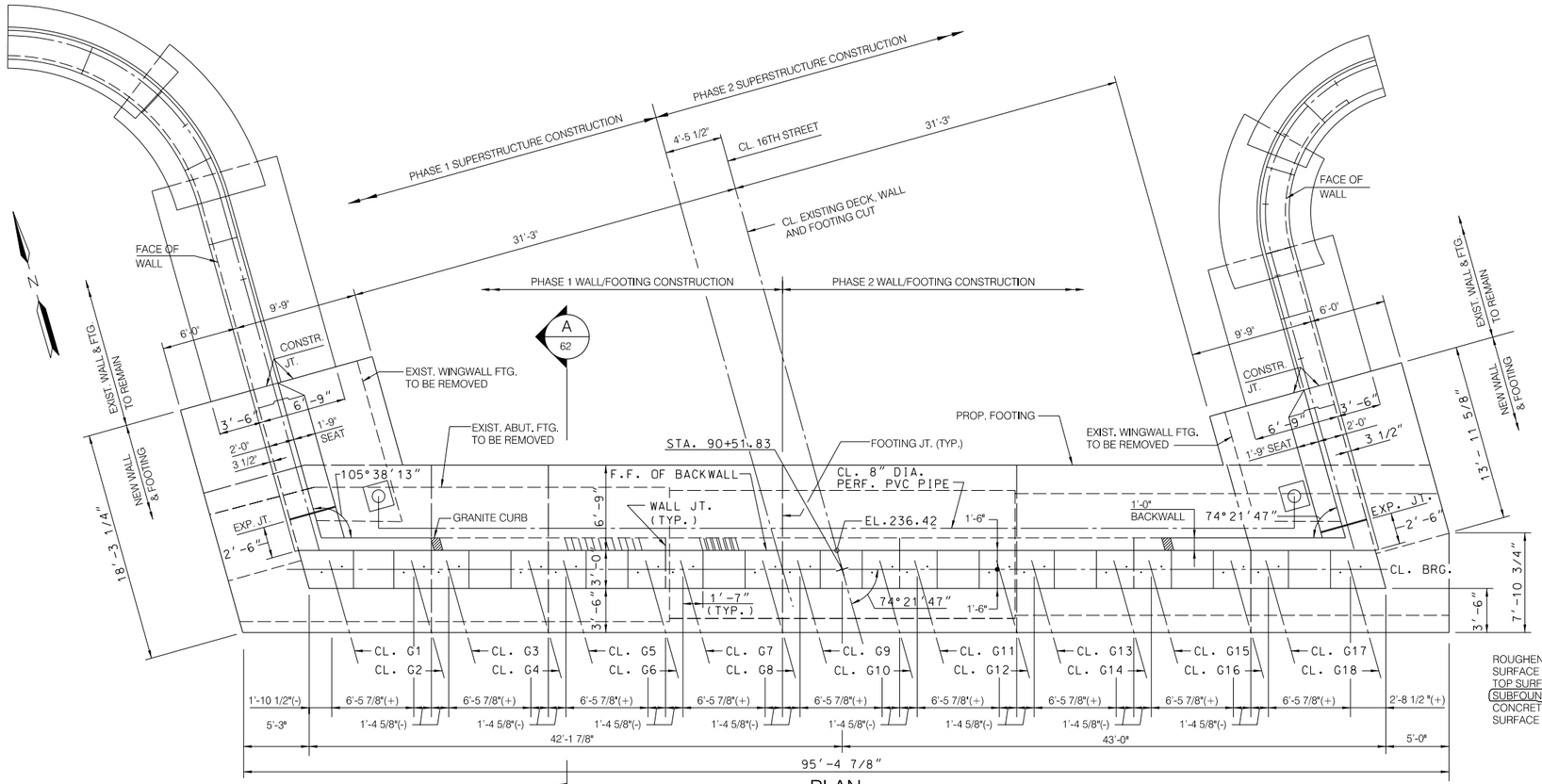
MILITARY ROAD
SIGNING AND PAVEMENT MARKINGS
STA. 36+50 TO STA. 42+00

PROJECT ENG. MR
DESIGNED BY MR
CHECKED BY AR
DRAWN BY DS
PROJECT MGR. MI

DIVISION CHIEF

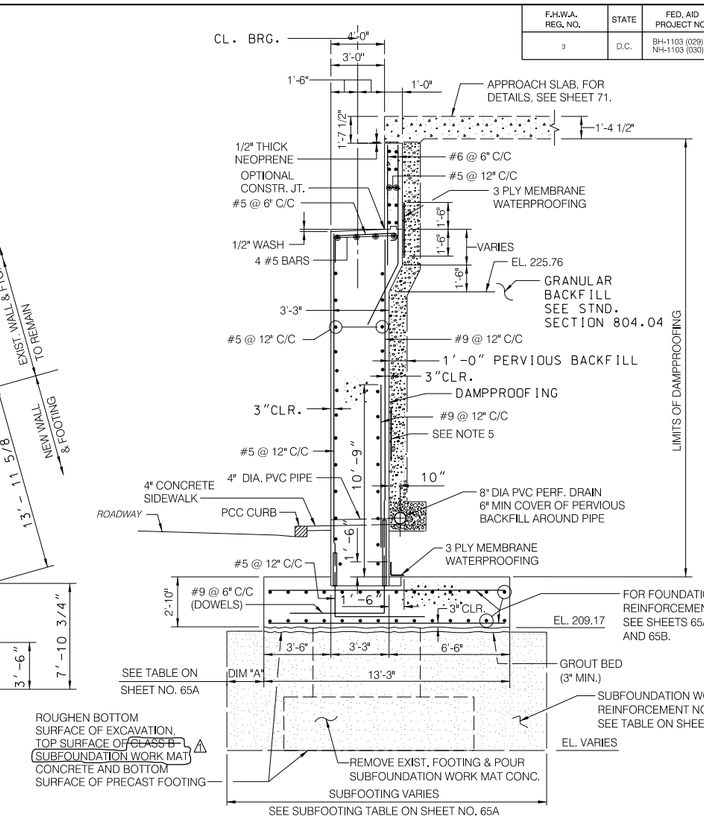
DATE
FILE
SHEET OF

F.H.W.A. REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
3	D.C.	BH-1103 (029) NH-1103 (030)	62R	134



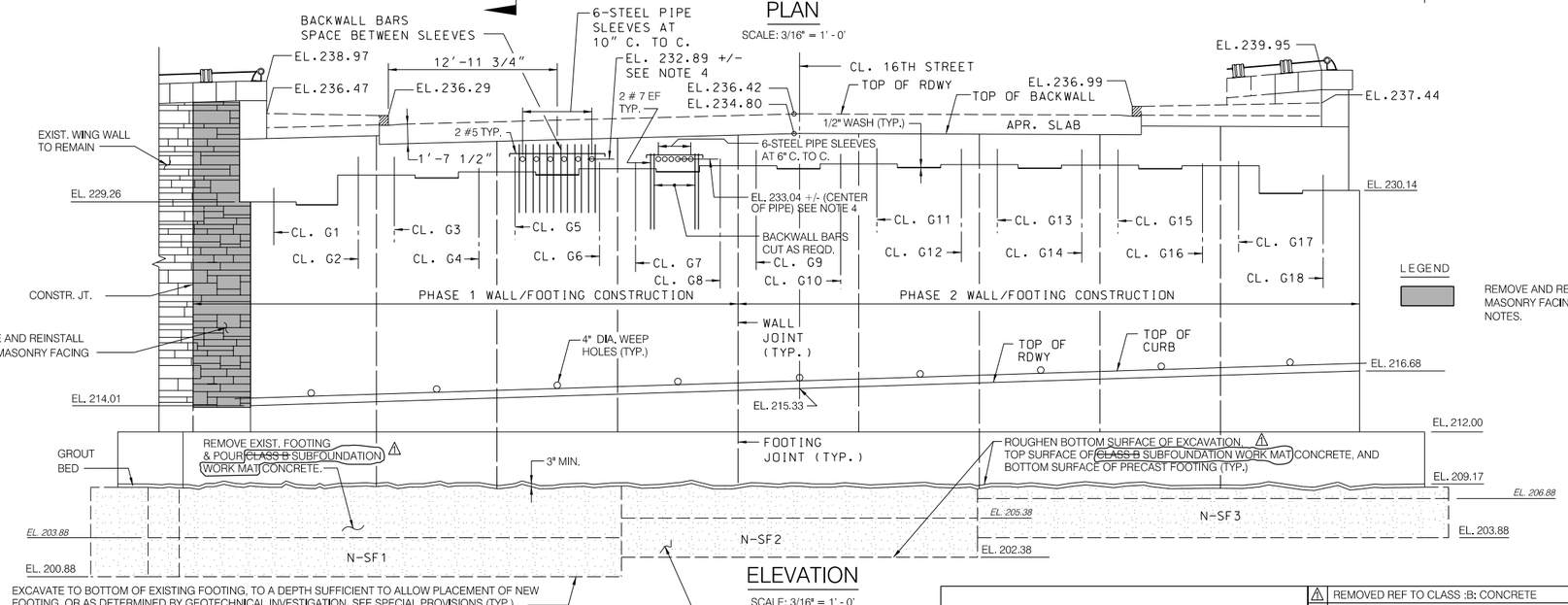
PLAN

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



SECTION A/62

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

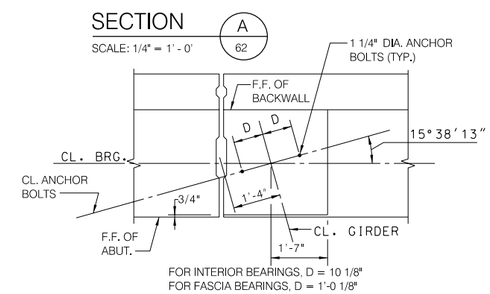


ELEVATION

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

LEGEND

REMOVE AND REINSTALL STONE MASONRY FACING. SEE GENERAL NOTES.



ANCHOR BOLT SETTING DETAIL

SCALE: 1/2" = 1' - 0'

NOTES:

1. FOR FOUNDATION REINFORCING SEE SHEET NO. 65A TO 65C.
2. FOR WALL, FOOTING, AND CONSTRUCTION JOINT DETAILS, SEE SHEET NO. 75.
3. SEE ELECTRICAL PLANS FOR GROUNDING OF BRIDGE SUPERSTRUCTURE.
4. ELEVATION APPROXIMATE. COORDINATE ELEVATION WITH LOCATION OF CONDUIT AND DIAPHRAGMS.
5. AT JOINTS BETWEEN PRECAST PANELS, APPLY 3 PLY MEMBRANE WATERPROOFING 3'-0" WIDE ON FOOTING TOE, FOOTING HEEL, BELOW GRADE ON FRONT FACE OF WALL, AND FULL HEIGHT ON REAR FACE OF WALL.

TOP OF PEDESTAL ELEVATIONS

GIRDER NO.	G1	G2	G3	G4	G5	G6	G7	G8	G9	G10	G11	G12	G13	G14	G15	G16	G17	G18
NORTH ABUT.	229.26	231.10	231.24	231.41	231.48	231.65	231.72	231.89	231.96	232.03	232.02	231.99	231.98	231.95	231.94	231.85	231.84	230.14

MODJESKI and MASTERS
Experience great bridges.

NO.	DESCRIPTION	NAME	DATE
1	REMOVED REF TO CLASS :B: CONCRETE	CMC	4-24-13

REVISIONS

D.C. DEPARTMENT OF TRANSPORTATION
INFRASTRUCTURE PROJECT
MANAGEMENT ADMINISTRATION

RECONSTRUCTION OF 16TH ST BRIDGE OVER MILITARY ROAD, NW AND MEDIAN BARRIER AND STREET LIGHT IMPROVEMENTS ON MILITARY ROAD

PROPOSED BRIDGE
NORTH ABUTMENT
DETAILS - 1

PROJECT ENG.	CMC
DESIGNED BY	NDT
CHECKED BY	TJS
DRAWN BY	DTP
PROJECT MGR.	LKH

DIVISION CHIEF

DATE
FILE
SHEET OF