



TOWN OF COVENTRY
1670 Flat River Road, Coventry, RI 02816
401-822-9107 Fax 401-822-9148

INVITATION TO BID

Traffic Signal Installation

Intersection of Hopkins Hill Road
at
Centre of New England Boulevard

Sealed bids for construction of the **Hopkins Hill Road Traffic Signal Installation Project** for the Town of Coventry will be received at the Coventry Office of the Town Clerk, Town Hall, 1670 Flat River Road, Coventry, RI 02816 until **2:00 p.m.** prevailing time, on **Tuesday, June 9, 2026**. Said bids will be publicly opened and read aloud in the Town Council Chambers, Town Hall, 1670 Flat River Road at **2:05 p.m.** prevailing time, on **Tuesday, June 9, 2026**.

The Town of Coventry reserves the right to reject any or all bids, to waive any formalities in a bid, to make awards to separate bidders, to make awards to more than one bidder or to accept that bid or bids which in the judgment of the awarding authority is in the best interest of the Town.

Paper copies of the Contract Documents may be obtained on or after **Monday, May 18, 2026**, at the Coventry Department of Public Works, 1668 Flat River Road, Coventry, RI 02816, on weekdays from 8:00 a.m. to 4:00 p.m., upon payment of **\$50.00 (NONREFUNDABLE)** for each set, or to obtain electronic copies at no cost, send an email request to Mr. Paul Bannon at paul.bannon@crossmaneng.com. Please put Hopkins Hill Road Traffic Signal Installation Project in the subject line. Certified checks or money orders shall be made payable to the "Town of Coventry".

A **mandatory** Prebid Conference will be held on **Wednesday, May 27, 2026**, commencing at **10:00 a.m.** at the project site located at the Hopkins Hill Road intersection with Centre of New England Boulevard. Any request for interpretation of plans and specifications may be submitted in writing at that time. Bidders will have an opportunity to view the site work following the Prebid Conference.

The Bid Envelope must be clearly marked "**Traffic Signal Installation**".

TOWN OF COVENTRY

Joanne Amitrano
Town Clerk

GENERAL NOTES:

- ALL DISTURBED AREAS ARE TO RECEIVE 4" LOAM SOIL AND RESIDENTIAL SEED, OR AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE ANY EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY TOWN, STATE OR FEDERAL AGENCY THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL REQUIRED AUTHORIZATION TO PERFORM WORK MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, A TOWN OF COVENTRY CURB OPENING PERMIT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR LABELS, DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE INITIATION OF WORK. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE CONTRACT DOCUMENTS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
- ALL MILLINGS ARE TO BE REMOVED AND DISPOSED OF OFF THE SITE IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION WITH THE TOWN OF COVENTRY (SEWER, AND STORM), KENT COUNTY WATER AUTHORITY (WATER), WEST WARWICK WASTEWATER FACILITY (SEWER), RHODE ISLAND ENERGY, VERIZON, AND COX COMMUNICATIONS, AS REQUIRED.
- ANY DAMAGED EXISTING PIPE/STRUCTURE SHALL BE REPLACED IN KIND AND MATCH EXISTING HORIZONTAL AND VERTICAL LAYOUT.
- ALL PAVEMENT MARKINGS AND SIGNS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," (M.U.T.C.D.), LATEST EDITION.
- THE CONTRACT DOCUMENTS REPRESENT THE GENERAL SITE AND CONSTRUCTION REQUIREMENTS AND DOES NOT REPRESENT ALL WORK ITEMS, DETAILS, AND SPECIFICATIONS NECESSARY FOR CONSTRUCTION.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO INSTALLING SURFACE PAVEMENT. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS, INCLUDING DRIVEWAYS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES ON SITE PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE CONSTRUCTION PLANS TO THE OWNER AND ENGINEER. THE CONTRACTOR SHALL ALSO REPORT ANY CONDITIONS UNCOVERED IN THE WORK THAT ARE NOT REFLECTED WITHIN THE PLANS.
- THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE OWNER, ESTABLISH CONSTRUCTION LIMITS ON THE SITE BY ACCEPTABLE VISIBLE MARKERS PLACED AT EYE LEVEL. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS. THE CONTRACTOR SHALL REMOVE ALL MARKERS WHEN DIRECTED BY THE OWNER.
- THE INTENTION OF THE OWNER IS TO MAINTAIN THE BOUNDARIES OF THE SITE IN ITS EXISTING CONDITION AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFINING THE WORK TO WITHIN THE CONSTRUCTION LIMITS.
- ALL EXISTING VEGETATION (TREES, SHRUBS, GRASSES, ETC.) TO REMAIN SHALL BE PROTECTED FROM INJURY. INDIVIDUAL TREES AND SHRUBS TO BE SAVED WITHIN THE DESIGNATED WORK AREA SHALL BE ADEQUATELY PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL PROTECTIVE BARRIERS AS DIRECTED BY THE OWNER.
- ALL EXISTING GRASSED AREAS NOT ADEQUATELY PROTECTED AND THEREFORE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SHOP DRAWINGS MUST BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER FOR ALL BITUMINOUS MIXES AND EROSION CONTROLS. ENGINEER OR OWNER APPROVAL IS REQUIRED PRIOR TO ORDERING.
- THE CONTRACTOR SHALL PROVIDE GRAVEL RAMPS AT THE CUT AND MATCH LINES AFTER PAVEMENT REMOVAL TO THE SATISFACTION OF THE OWNER OR ENGINEER.
- THE INSTALLATION OF NEW SURFACE PAVEMENT MUST OCCUR WITHIN 3 DAYS AFTER THE COMPLETION OF MILLING OPERATIONS OR PAVEMENT REMOVAL ON ANY SECTION OF ROADWAY.

TREE PROTECTION NOTE

PLANTS LISTED AS SAVE AND PROTECT SHALL BE REVIEWED BY A LICENSED ARBORIST OR AS DIRECTED BY OWNER. CUT BROKEN, DEAD OR INJURED BRANCHES ABOVE THE STEM COLLAR ON THE TRUNK OR LIMB. PRUNE ALL BROKEN ROOTS ON THE PLANT SIDE OF THE BREAK. PAINT CUTS OVER 3/4" IN DIAMETER AS DIRECTED BY ARBORIST. PRUNING SHALL NOT DEFORM OR OTHERWISE DESTROY THE TYPICAL SHAPE OR SYMMETRY OF THE PLANT, AND SHALL NOT REDUCE THE HEIGHT BY MORE THAN ONE-THIRD.

BITUMINOUS CONCRETE PAVEMENT WEATHER NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER AT LEAST TWENTY-FOUR (24) HOURS BEFORE PERFORMING ANY PAVING OPERATIONS. THE ENGINEER WILL VERIFY WHETHER THE WEATHER CONDITIONS ARE ACCEPTABLE OR NOT FOR THE PROPER HANDLING OR FINISHING OF THE BITUMINOUS MIXTURES. IF, IN THE OPINION OF THE ENGINEER, THE WEATHER CONDITIONS WILL PRODUCE A WET SURFACE, THEN THE ENGINEER WILL CONTACT THE CONTRACTOR TO CANCEL THE PAVING OPERATIONS. BITUMINOUS CONCRETE PAVEMENT SHALL NOT BE PLACED ON ANY WET SURFACE OR DURING RAIN.

TRAFFIC SIGNAL GENERAL NOTES

- BACK PLATES ARE REQUIRED ON ALL TRAFFIC SIGNAL HEADS AND SHALL BE INCLUDED IN THE PRICE OF THE SIGNAL HEAD.
- TRAFFIC CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE CABINET DOOR IS FACING AWAY FROM THE ROADWAY, UNLESS OTHERWISE STATED ON PLANS.
- 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.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER.
- 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. "BARE GROUND WIRE" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE OF PVC CONDUIT ITEMS.
- FINAL PLACEMENT OF SIGNAL HEADS, DETECTORS, STOP BARS AND CROSSWALKS TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION ACCORDING TO OBSERVED INTERSECTION CHARACTERISTICS BY THE ENGINEER.
- A 2-FOOT 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. PEDESTAL POLES SHALL BE PLACED AT THE BACK OF SIDEWALK.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- ACCESS TO PEDESTRIAN PUSHBUTTONS SHALL MEET ADA REQUIREMENTS. ALL PEDESTRIAN PUSHBUTTONS SHALL BE ADA COMPLIANT WITH A 2' DIAMETER. SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSHBUTTONS SHALL BE MUTCD 2003 CODE R10-3B (LEFT OR RIGHT) AND SHALL BE INSTALLED SO THAT IT IS CLEARLY INDICATED WHICH CROSSING IS ASSIGNED TO EACH BUTTON.
- ALL LOOP ZONES SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FUTURE FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- ALL MATERIALS AND CONSTRUCTION SHALL BE PER THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- ALL PAVEMENT MARKINGS SHALL BE EPOXY RESIN. ALL PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED.
- 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.
- ALL PROPOSED 360° VIDEO DETECTION CAMERAS SHALL BE AXIS M4318 PLVE PANORAMIC CAMERAS. THE CAMERAS SHALL BE CONNECTED USING CUSTOM FIBER OPTIC/POWER HYBRID CABLE APPROVED EQUIVALENT UNLESS SPECIFIED BY THE MANUFACTURER. ALL PROPOSED CAMERA LOCATIONS SHALL BE THOROUGHLY VETTED WITH THE FACTORY TRAINED LOCAL SUPPLIER AND/OR ACCOMPLISHED WITH THE CAMERA POSITIONING AND THE NUMBER OF ACTUAL CAMERAS PROPOSED (CAN VARY BY RANGE/DISTANCE OF DETECTION ZONES BASED ON CAMERA POSITIONING).

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION OR R.I.D.O.T. LICENSED FLAGMEN. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES, CHANNELING DEVICES AND LANE CLOSURES, ETC. SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE STATE OR TOWN RIGHT-OF-WAY.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

ADA RAMP NOTES

- ALL FINISHED SURFACE COURSE PAVEMENT SHALL BE FLUSH WITH ALL ADA RAMPS AFTER FINAL COMPACTION.
- ALL FINISHED SURFACE COURSE PAVEMENT SHALL BE INSTALLED TO PREVENT PUDDLING AT ADA RAMPS.

STRIPING NOTES

- PROJECT-WIDE THE CONTRACTOR IS RESPONSIBLE TO REPLACE ALL EXISTING STRIPING THAT FALLS WITHIN THE LIMIT OF WORK THAT IS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- EPOXY RESIN PAVEMENT MARKINGS SHALL CONFORM TO ALL R.I.D.O.T. SPECIFICATIONS. NEW EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE NO SOONER THAN TWO (2) WEEKS BUT NO LONGER THAN FOUR (4) WEEKS FROM THE COMPLETION OF EACH DAYS PAVING OPERATION.

SCREENED LOAM BORROW NOTE

THE CONTRACTOR'S BID PRICE SHALL INCLUDE THE INSTALLATION OF 4 INCHES OF SCREENED LOAM BORROW CONFORMING TO RIDOT STANDARD SPECIFICATION SECTION M.18-LANDSCAPING MATERIALS. EXISTING STOCKPILED LOAM MAY BE UTILIZED IF SCREENED AND THE FINAL MATERIAL MEETS ALL REQUIREMENTS OF SECTION M.18. ANY STOCKPILED OR SCREENED MATERIAL NOT MEETING THE REQUIREMENTS OF SECTION M.18 SHALL BE REMOVED AND DISPOSED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.

NEW SIDEWALK NOTE:

THE INSTALLATION OF THE CEMENT CONCRETE SIDEWALK (R.I. STD. 43.1.0) SHALL INCLUDE EXCAVATION OF THE EXISTING MATERIAL AND INSTALLATION OF NEW GRAVEL BORROW THAT CONFORMS TO THE REQUIREMENTS OF SUBSECTION M.01.02 OF THE R.I.D.O.T. SPECIFICATIONS.

STOCKPILED MATERIALS:

ALL REMOVED AND OR STOCKPILED CURBING AND COBBLESTONES NOT TO BE USED ON-SITE SHALL REMAIN THE PROPERTY OF THE TOWN OF COVENTRY, AND AT THE DIRECTION OF THE TOWN OR ENGINEER, SHALL BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS FACILITY AT 1668 FLAT RIVER ROAD AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION NOTES

THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER AT LEAST 48 HOURS PRIOR TO START OF WORK. THE COORDINATION IS NECESSARY FOR THE ENGINEER TO SCHEDULE SITE INSPECTIONS. WORK PERFORMED WITHOUT INSPECTIONS BY THE ENGINEER MAY WARRANT COMPLETE REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S SOLE EXPENSE.

LEGEND & ABBREVIATIONS

- N/F - NOW OR FORMERLY
- A.P. - ASSESSORS PLAT
- S.F. - SQUARE FEET
- AC. - ACRES
- ± - PLUS OR MINUS
- STY - STORY
- WF - WOOD FRAMED
- SH - STATE HIGHWAY PLAT
- RET. - RETAINING WALL
- PE. - PEDESTRIAN
- (FND.) - FOUND
- R/HB - RI HIGHWAY BOUND
- M/NAIL - MASONRY NAIL
- FE - FLARED END
- RCP - REINFORCED CONCRETE PIPE
- CLF - CHAIN LINK FENCE
- INV. - INVERT
- x 10.80 - EXISTING SPOT GRADE
- x 10.80 - NEW SPOT GRADE
- Ø - DRILL HOLE
- Ø - IRON PIPE
- D= - DEPTH=
- - GRANITE BOUND

EXISTING

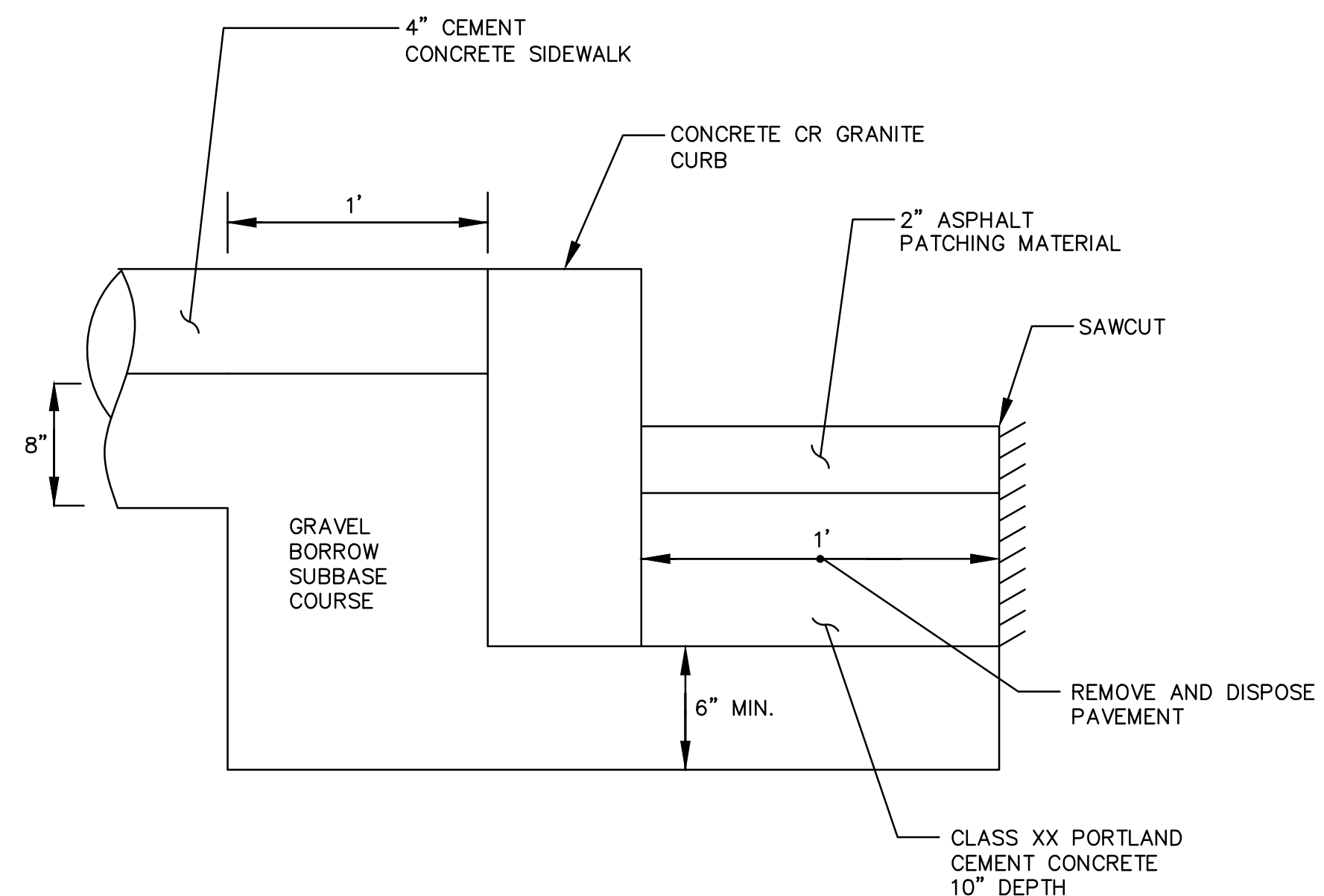


PROPOSED



PLAN SYMBOLS

- BCD - BITUMINOUS CONCRETE DRIVEWAY
- CW - R.I. STD. 20.3.0 CROSSWALK
- CXX - CLASS XX PORTLAND CEMENT CONCRETE (10" DEPTH) (AT FACE OF CURB)
- C4.75 - CLASS 4.75 HMA FOR PATCHING (2" DEPTH) (AT FACE OF CURB)
- 6W - 6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 12W - 12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
- 43.1.0 - CEMENT CONCRETE SIDEWALK
- 43.3.0 - WHEELCHAIR RAMP STDS. 7.1.3, 7.3.3, 43.1.0, 43.3.0 AND 48.1.0
- RCS - REMOVE AND STOCKPILE COBBLESTONES
- RPM - REMOVE PAVEMENT MARKINGS



NOTES:

- CURB REVEAL SHALL BE 6 INCHES OR MATCH REVEAL OF EXISTING ADJACENT CURB TO REMAIN.
- 2-INCH BITUMINOUS PATCHING MATERIAL SHALL CONFORM TO CLASS 9.5 HMA.
- THE COST FOR THE INSTALLATION OF THE CURBING INCLUDED BUT IS NOT LIMITED TO THE FOLLOWING ITEMS PER THE DETAIL; CURBING, SAW CUTTING PAVEMENT, CURB SETTING, GRAVEL SUBBASE, CLASS XX CONCRETE AND CLASS 9.5 ASPHALT PATCHING MATERIAL COMPLETE IN PLACE AS INCLUDED IN THE ITEM 4 AND ITEM 5 BID PRICES PER LINEAR FOOT OF CURBING INSTALLED.

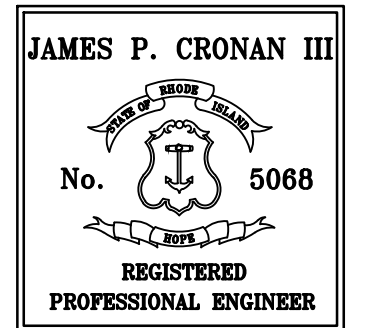
CURB INSTALLATION DETAIL
NOT TO SCALE



CROSSMAN ENGINEERING

Rhode Island: 100 Jefferson Blvd., Suite 200, Warwick, RI 02886, Phone: (401) 738-8560
 Massachusetts: 1 George Leven Drive, Suite 200, North Attleboro, MA 02760, Phone: (508) 695-1700
 Email: col@crossmaneng.com

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PROJECT TITLE:

**TRAFFIC SIGNAL
INSTALLATION**

**INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND
BOULEVARD**

PREPARED FOR:

**TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816**

DRAWING TITLE:

**GENERAL NOTES
and LEGEND**

DATE: MAY 2026 SCALE: NO SCALE

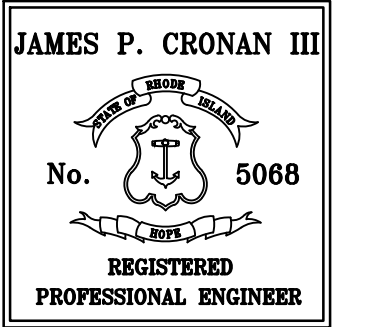
DWG. NAME: 3032.00-02-NOTES.dwg

REVISIONS	NUMBER	REMARKS	DATE
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DRAWING NUMBER

C1

SHEET: 2 OF 5



PROJECT TITLE:
TRAFFIC SIGNAL INSTALLATION
INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND
BOULEVARD

PREPARED FOR:
TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816

DRAWING TITLE:
TRAFFIC SIGNAL PLAN

DATE: MAY 2026 SCALE: 1"=20'

Dwg. NAME: 3032.00-04-SIGNAL.dwg

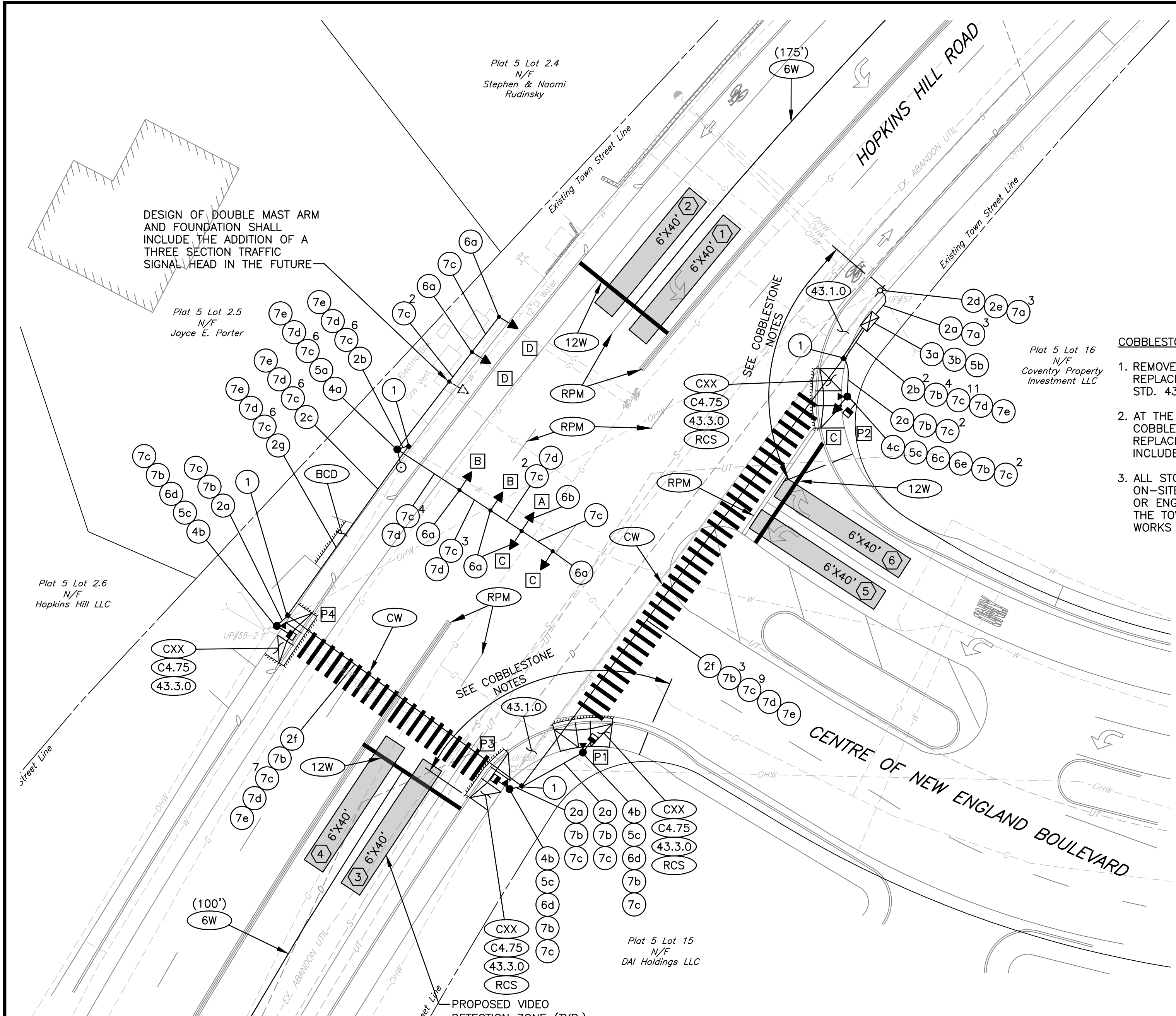
REVISIONS

NUMBER	REMARKS	DATE
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DRAWING NUMBER

C3

SHEET: 4 OF 5

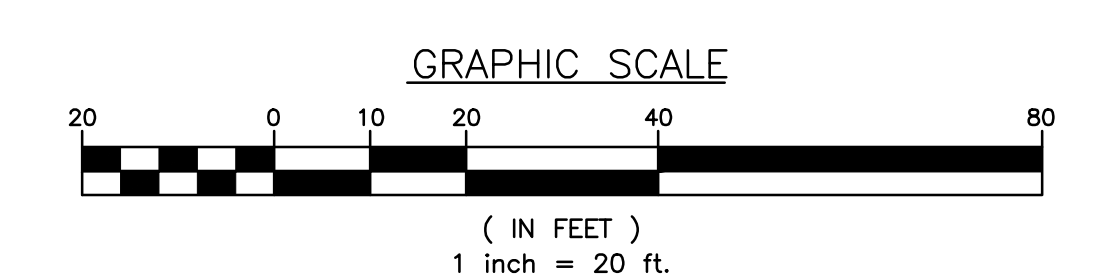
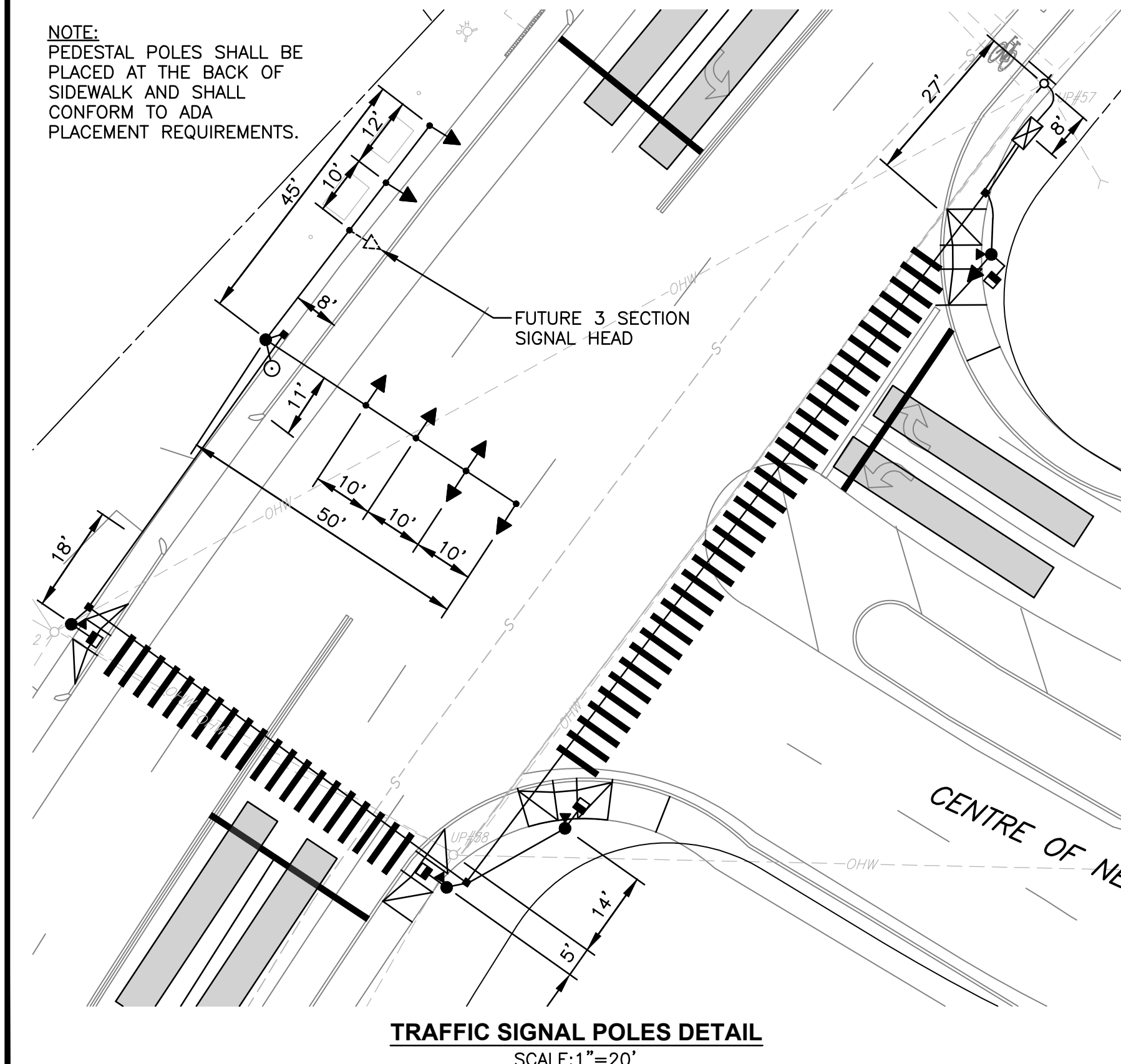


COBBLESTONE NOTES:

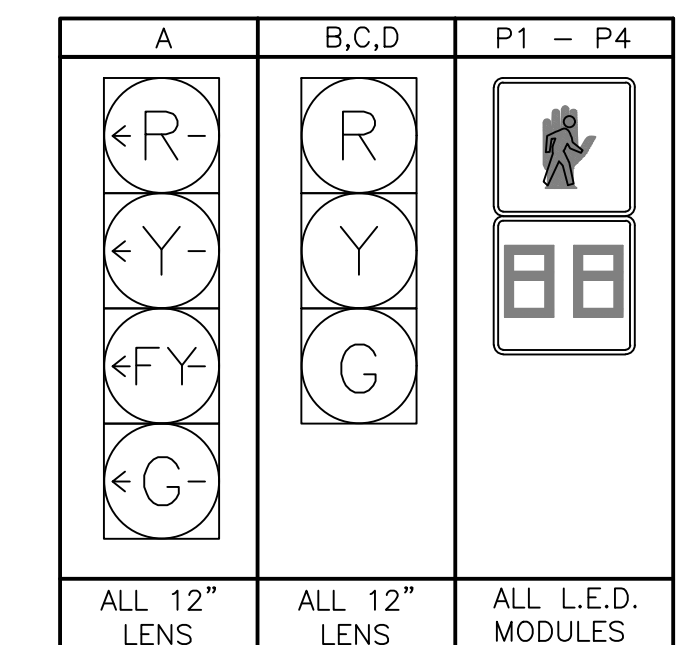
- REMOVE AND STOCKPILE COBBLESTONES AND REPLACE WITH CEMENT CONCRETE SIDEWALK, R.I. STD. 43.1.0.
- AT THE EXTENTS OF THE NEW CONCRETE SIDEWALK, COBBLESTONES SHALL BE REMOVED, SAWCUT AND REPLACED AS NEEDED. THE COST SHALL BE INCLUDED IN THE COST OF THE SIDEWALK.
- ALL STOCKPILED COBBLESTONES NOT REUSED ON-SITE SHALL, AT THE DIRECTION OF THE TOWN OR ENGINEER, BE DISPOSED OF OR DELIVERED TO THE TOWN OF COVENTRY DEPARTMENT OF PUBLIC WORKS FACILITY.

TRAFFIC SIGNAL EQUIPMENT LEGEND

- 1 PRECAST TYPE 'A' HANDHOLE, STD. 18.2.0
- 2a 2" RIGID STEEL - UNDERGROUND
- 2b 3" RIGID STEEL - UNDERGROUND
- 2c 3" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
- 2d 2" RIGID STEEL CONDUIT - OVERHEAD
- 2e 2" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - OVERHEAD
- 2f 3" SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT, STD. 18.6.0
- 2g 3" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT
- 3a YUNEX M60 NEMA TS-2 CONTROLLER, TYPE 1 - WITH 8 PHASE ASSEMBLY INCLUDING FMU, GROUND MOUNTED INCLUDING FOUNDATION AND CABINET, STD. 19.1.1
- 3b 3 WIRE 120/240 METER SOCKET WITH MANUAL BY-PASS
- 4a DUAL MAST ARM (50'X45') GALVANIZED STEEL TRAFFIC SIGNAL POST AND FOUNDATION, STD. 19.2.0
- 4b TRAFFIC SIGNAL STD., 8' ALUMINUM PEDESTAL POLE AND FOUNDATION, STD. 19.4.0
- 4c TRAFFIC SIGNAL STD. 10' ALUMINUM PEDESTAL POLE AND FOUNDATION, STD. 19.4.0
- 5a INTERSECTION WIDE 360 DEGREE VIDEO DETECTION SYSTEM - AXIS M4318-PLVE PANORAMIC CAMERA
- 5b VIDEO PROCESSOR UNIT - CURRUX VISION ITS VIDEO DETECTION SYSTEM
- 5c ACCESSIBLE PEDESTRIAN DETECTOR PUSH BUTTON WITH SIGN
- 6a 1 WAY, 3 SECTION MAST ARM MOUNTED SIGNAL HEAD, 12 INCH
- 6b 1 WAY, 4 SECTION MAST ARM MOUNTED SIGNAL HEAD, 12 INCH WITH FLASHING YELLOW ARROW
- 6c 1 WAY, 3 SECTION PEDESTAL MOUNTED SIGNAL HEAD, 12 INCH
- 6d 1 WAY, PEDESTAL MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, 12 INCH
- 6e 1 WAY, BRACKET MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, 12 INCH
- 7a 6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION
- 7b 14 AWG 3 CONDUCTOR CABLE
- 7c 14 AWG 5 CONDUCTOR CABLE
- 7d 14 AWG 7 CONDUCTOR CABLE
- 7e VIDEO DETECTION CABLE



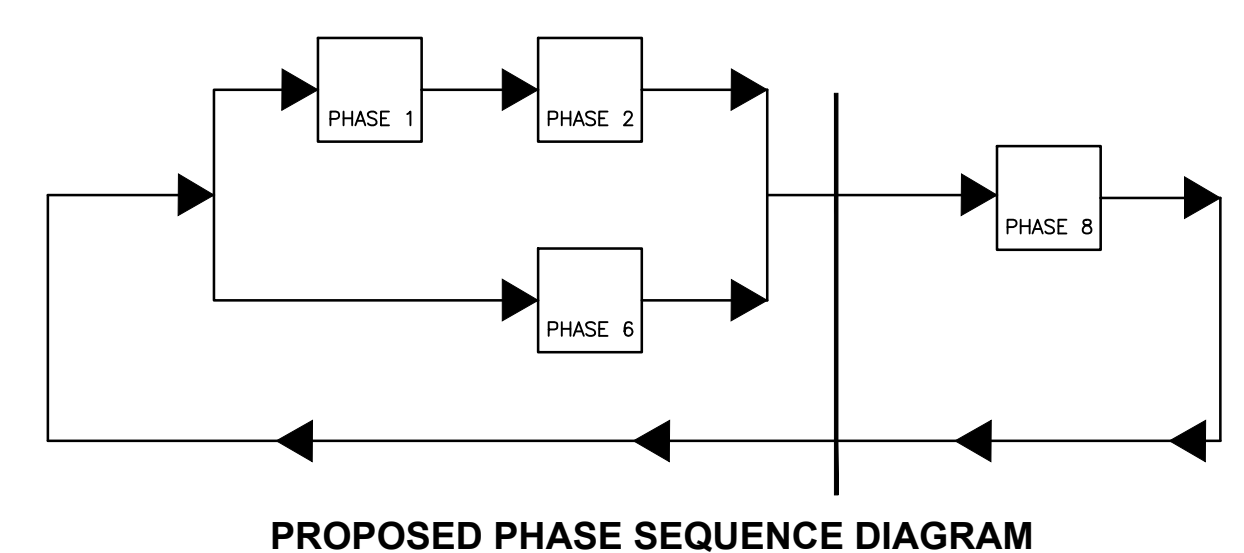
PROPOSED SIGNAL HEADS



- SIGNAL HEAD NOTES:**
- ALL RED, YELLOW, AND GREEN SIGNAL DISPLAYS SHALL BE EQUIPPED WITH LED MODULES.
 - PROPOSED TRAFFIC SIGNAL HEADS SHALL BE FURNISHED WITH 5" FLAT BACKPLATES WITH 3" YELLOW RETROREFLECTIVE STRIP IN ACCORDANCE WITH SECTION 40.12 OF THE MUTCD 2009 EDITION WITH ALL REVISIONS.

DETECTOR ZONE DATA

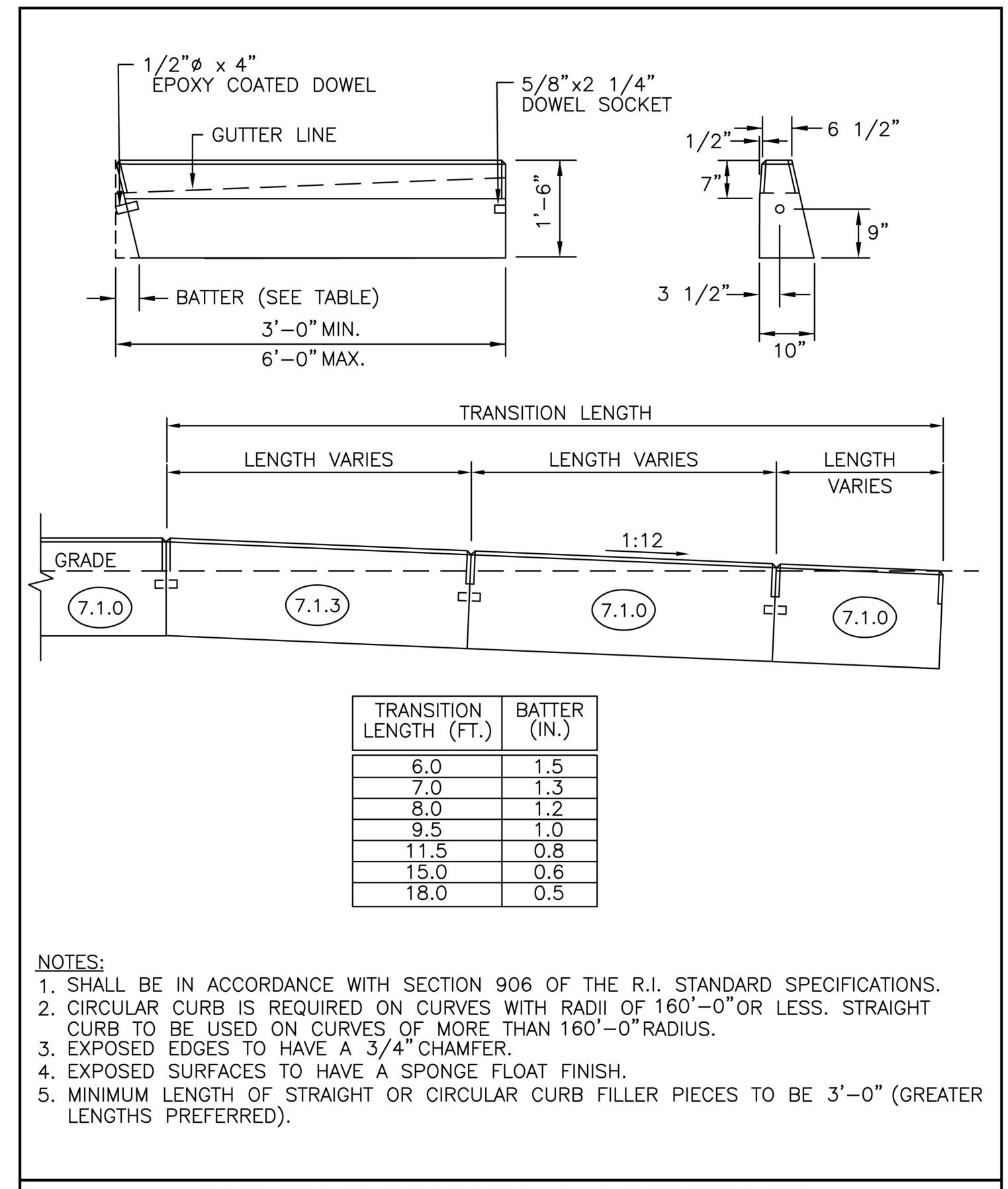
DETECTOR ZONE	NO. SECTION/ SIZE	DELAY (SECS.)	CALL PHASE	EXTEND PHASE	REMARKS
(1)	6' X 40'	3	1	1	PROPOSED VIDEO
(2)	6' X 40'	3	6	6	PROPOSED VIDEO
(3)	6' X 40'	3	2	2	PROPOSED VIDEO
(4)	6' X 40'	3	2	2	PROPOSED VIDEO
(5)	6' X 40'	3	8	8	PROPOSED VIDEO
(6)	6' X 40'	3	8	8	PROPOSED VIDEO



PHASING, SEQUENCE, AND TIMING

APPROACH	DIRECTION	HOUSING	PHASE 1	PHASE 2	PHASE 6	PHASE 8	FLASHING OPERATION
MINIMUM INTERVAL			6	10	10	8	
VEHICLE EXTENSION			2.7	2.9	2.9	2.4	
MAXIMUM 1			15	35	35	20	
MAXIMUM 2			15	35	35	20	
YELLOW CHANGE			4.0	4.5	4.5	3.5	
RED CLEARANCE			2.0	1.5	1.0	1.5	
PED. WALK				7		5	
PED. CLEARANCE				25		16	
HOPKINS HILL ROAD	WB-LT	A	G	SY	R	FY	FR
HOPKINS HILL ROAD	WB	B	G	Y	R	R	FR
HOPKINS HILL ROAD	EB	C	R	R	G	Y	FR
HOPKINS HILL ROAD	EB	C	R	R	R	R	FR
CENTRE OF NEW ENGLAND BLVD.	NB	D	R	R	R	R	FR
PEDESTRIAN X-ING	E-W	P1-P2	DW	DW	DW	DW	DW
PEDESTRIAN X-ING	N-S	P3-P4	DW	DW	DW	DW	DW
DETECTOR			NON-LOCK	NON-LOCK	NON-LOCK	NON-LOCK	
RECALL			OFF	MINIMUM-ON	MINIMUM-ON	OFF	

- PHASING NOTES:**
- IF THE ASSIGNED RIGHT OF WAY FOR A TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
 - THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE, OR COMBINATION OF NON-CONFLICTING PHASES.



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE WHEELCHAIR RAMP TRANSITION CURB

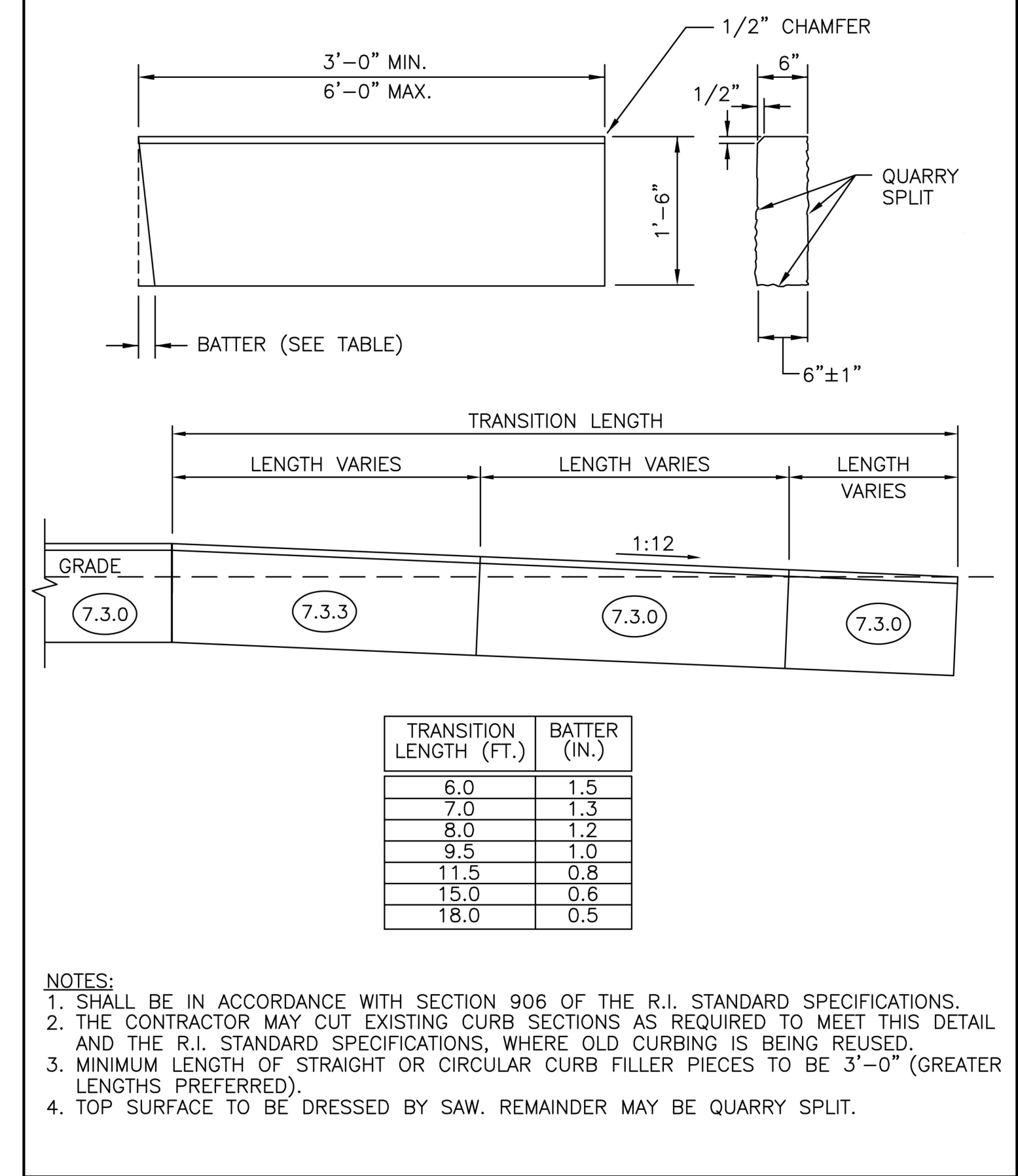
REVISIONS: 1. MLP Mar 05

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 7.1.3



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

GRANITE WHEELCHAIR RAMP TRANSITION CURB

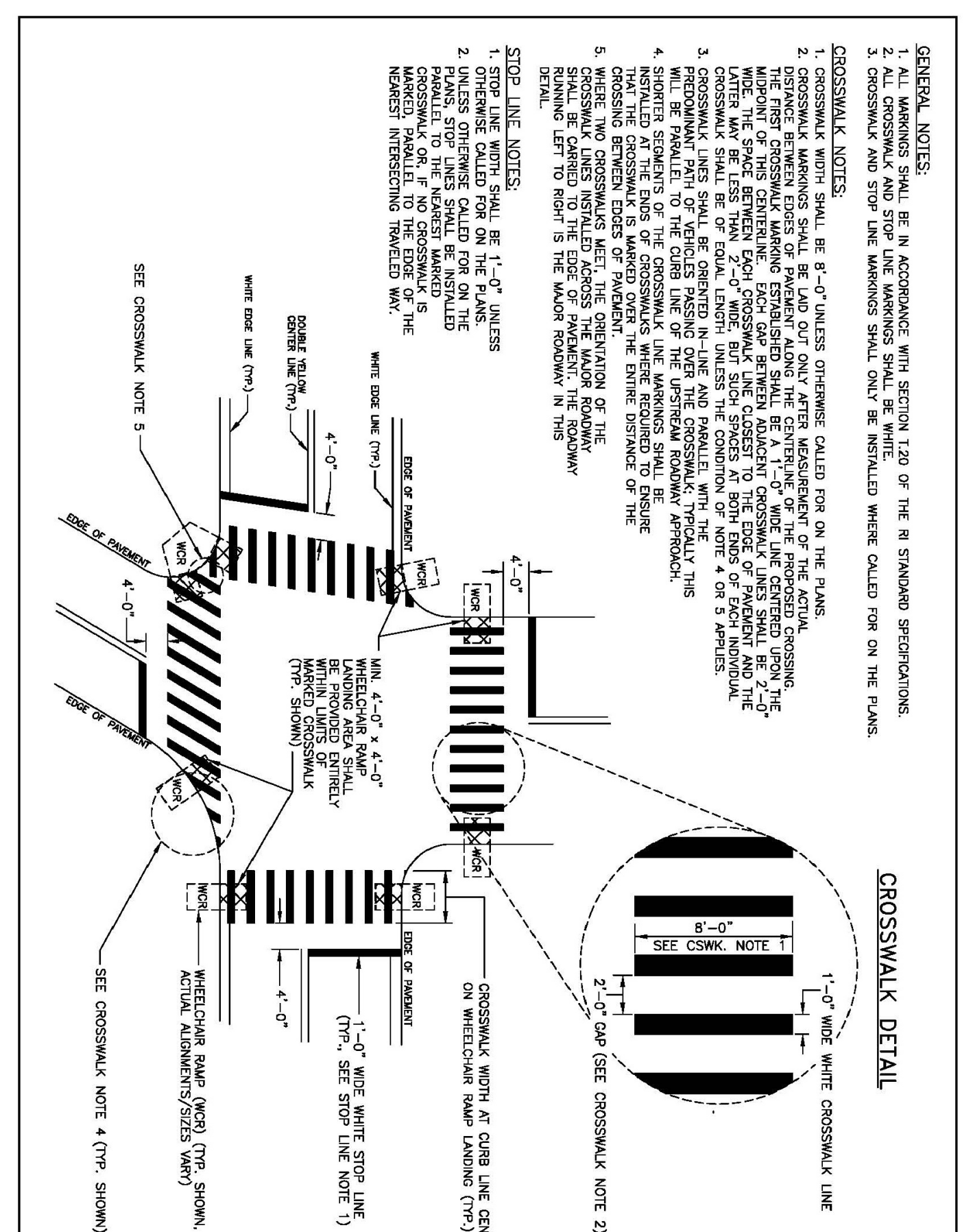
REVISIONS: 1. MLP Mar 2005, 2. MLP Jun 2012

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 7.3.3



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS - CROSSWALKS AND STOP LINES

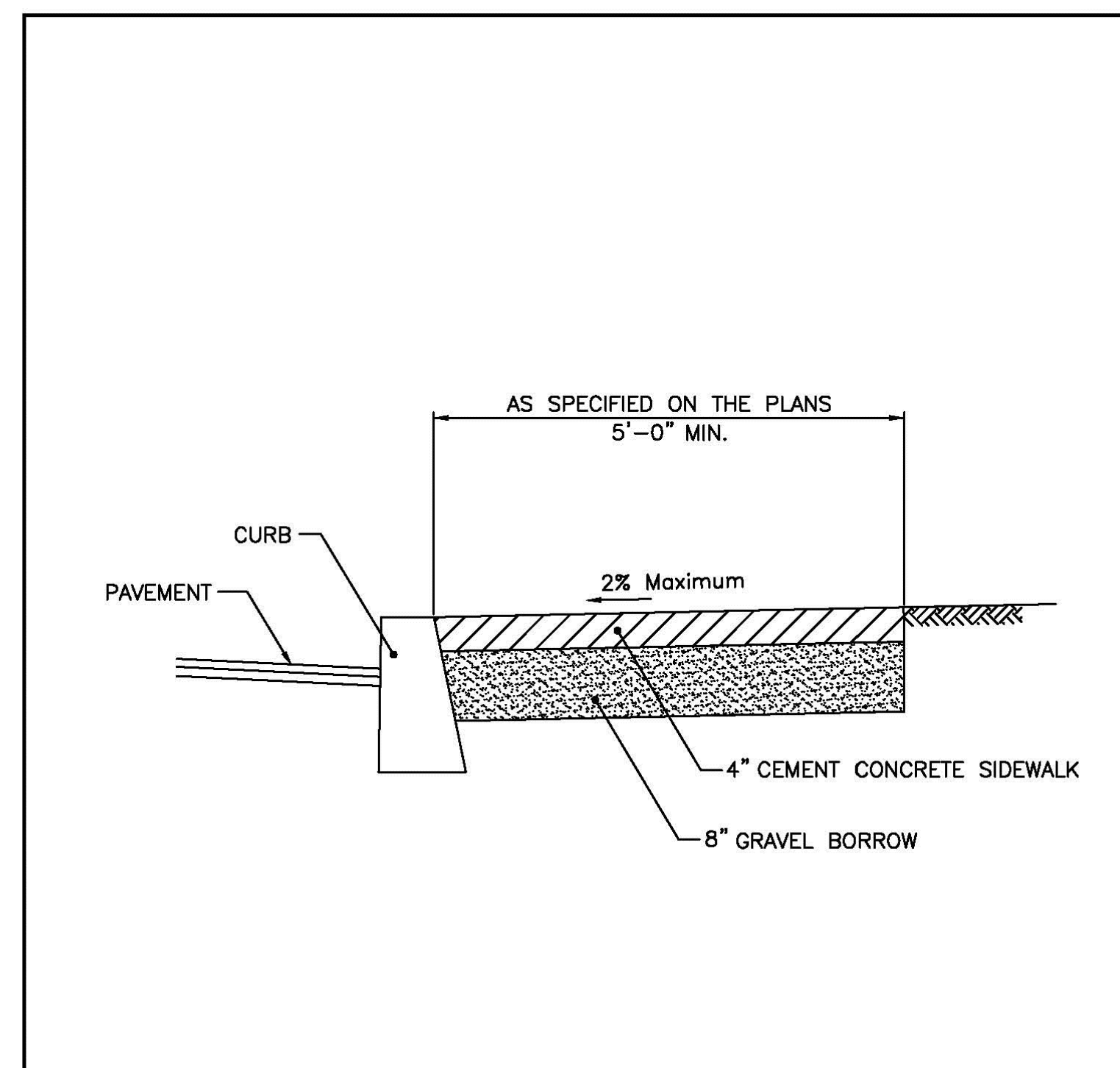
REVISIONS: 1. MLP Mar 2005, 2. MLP Jun 2012

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: FEBRUARY 27, 2018

R.I. STANDARD 20.3.0



NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

CEMENT CONCRETE SIDEWALK

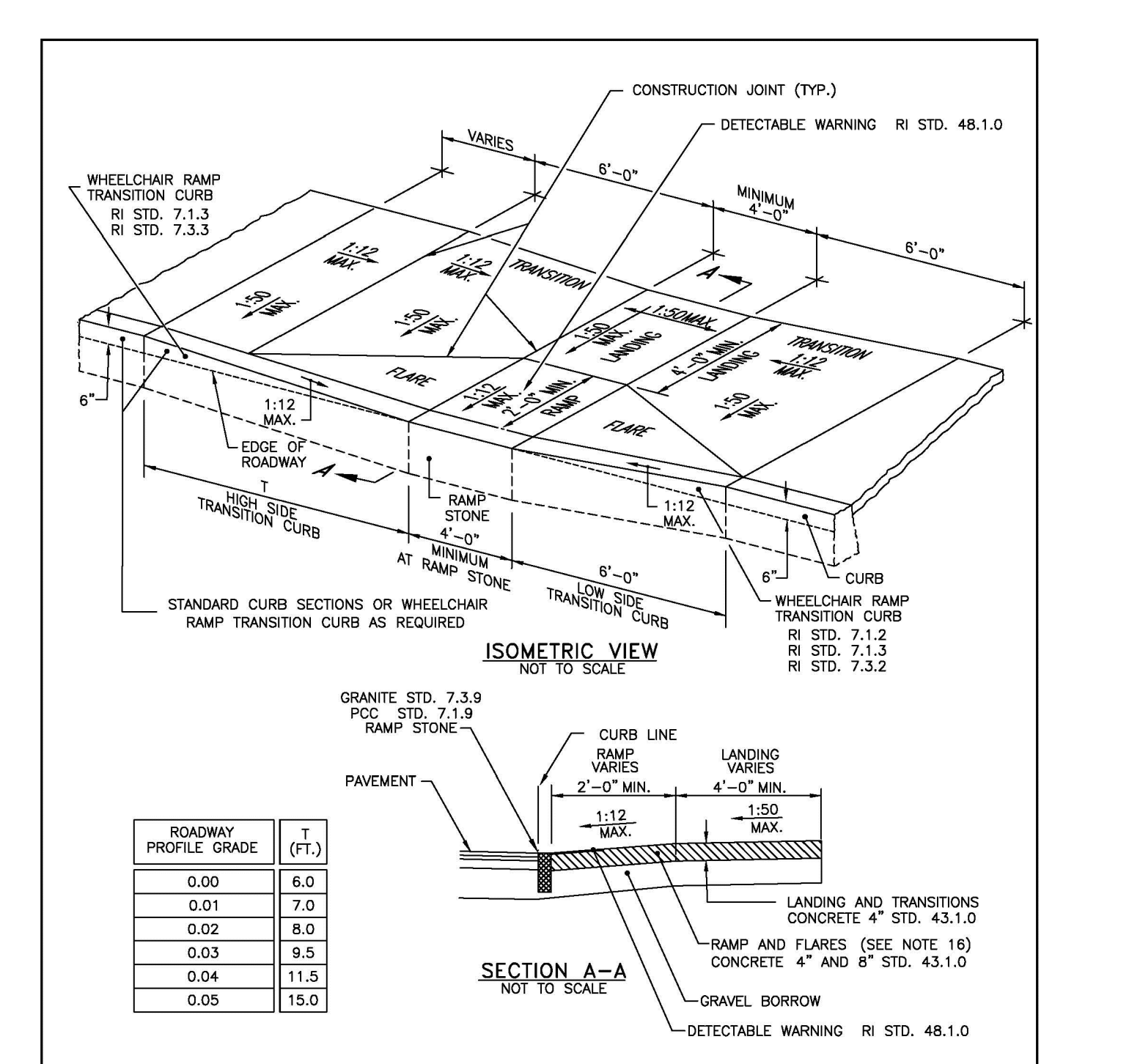
REVISIONS: 1. MLP 3/17/05, 2. MLP 06/01/10

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 43.1.0



NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP SHALL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
- AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
- GRABBAR FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
- LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
- IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.
- AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4'-0" SHALL BE MAINTAINED.
- THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT BE STEEPER THAN 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.
- WHERE THE ROAD PROFILE EXCEEDS SIX THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
- IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.
- THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
- THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.
- MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
- ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
- DETECTABLE WARNINGS TO BE PAID FOR UNDER SECTION 942 OF THE R.I. STANDARD SPECIFICATIONS.
- 8" CONCRETE DEPTH FOR RADIUS WHEELCHAIR RAMPS ONLY. USE 4" DEPTH FOR TANGENT (MID-BLOCK) LOCATIONS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

WHEELCHAIR RAMP

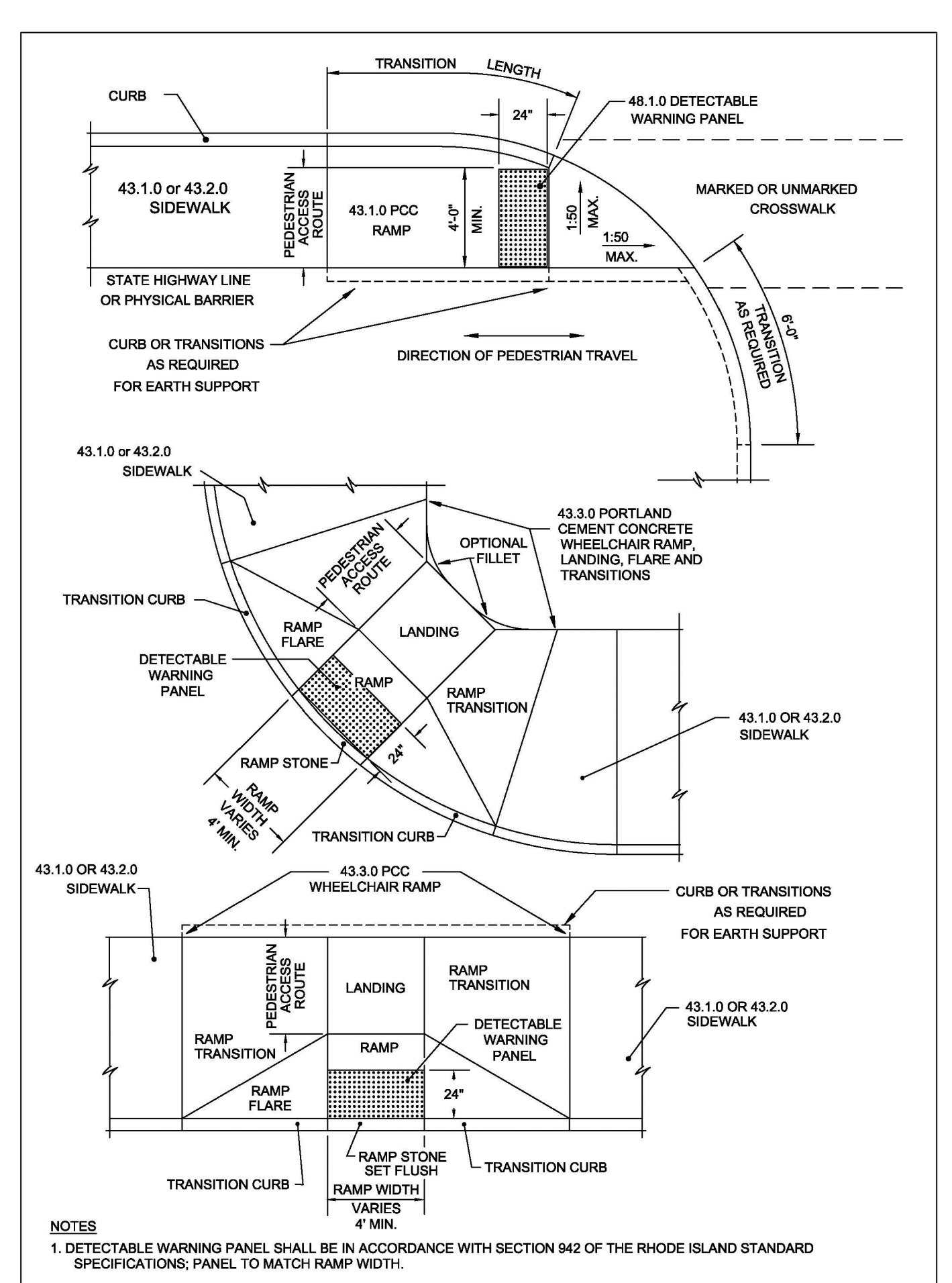
REVISIONS: 1. MLP Mar 2005, 2. MLP Jun 2008, 3. MLP Sep 2012

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 43.3.0



RHODE ISLAND DEPARTMENT OF TRANSPORTATION

DETECTABLE WARNING PANEL PLACEMENT

REVISIONS: 1. MLP Mar 2005, 2. MLP Jun 2008, 3. MLP Sep 2012

CHIEF ENGINEER: *James H. Capaldi* (Rhode Island Department of Transportation)

CHIEF DESIGN ENGINEER: *Edward J. Roberts* (Rhode Island Department of Transportation)

ISSUE DATE: JUNE 15, 1998

R.I. STANDARD 48.1.0

Crossman Engineering logo

Crossman Engineering

Rhode Island: 100 Jefferson Blvd., Suite 200, Warwick, RI 02889, Phone: (401) 738-5660

Massachusetts: 1 George Leven Drive, Suite 200, North Attleboro, MA 02760, Phone: (508) 695-1700

Email: cei@crossmaneng.com

THESE DRAWINGS ARE THE PROPERTY OF CROSSMAN ENGINEERING AND HAVE BEEN PREPARED FOR YOUR CLIENT FOR A SPECIFIC SITE AND PROJECT. THESE DRAWINGS ARE NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF CROSSMAN ENGINEERING.

JAMES P. CRONAN III

No. 5068

REGISTERED PROFESSIONAL ENGINEER

PROJECT TITLE:

TRAFFIC SIGNAL INSTALLATION

INTERSECTION OF HOPKINS HILL ROAD AT CENTRE OF NEW ENGLAND BOULEVARD

PREPARED FOR:

TOWN OF COVENTRY DEPARTMENT OF PUBLIC WORKS

1668 FLAT RIVER ROAD COVENTRY, RI 02816

DRAWING TITLE:

MISCELLANEOUS DETAILS PLAN

DATE: MAY 2026

SCALE: NO SCALE

DWG. NAME: 3032.00-05-DET.dwg

REVISIONS	NUMBER	REMARKS	DATE
△	--		--

DRAWING NUMBER

C4

SHEET: 5 OF 5

CONTRACT DOCUMENTS

FOR

HOPKINS HILL ROAD
TRAFFIC SIGNAL INSTALLATION

HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND BOULEVARD

TOWN OF COVENTRY
COUNTY OF KENT
RHODE ISLAND

Prepared for: Town of Coventry
c/o Department of Public Works
1668 Flat River Road
Coventry, RI 02816

Prepared by: Crossman Engineering
Engineers & Surveyors
100 Jefferson Boulevard, Suite 200
Warwick, RI 02888

MAY, 2026

**CONTRACT DOCUMENTS
FOR
TOWN OF COVENTRY**

**HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION
COVENTRY, RHODE ISLAND**

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CONTRACT FORMS

DIVISION 0
BIDDING AND CONTRACT REQUIREMENTS

SECTION 00020**ADVERTISEMENT FOR BIDS**

Sealed bids for construction of the **Hopkins Hill Road Traffic Signal Installation Project** for the Town of Coventry will be received at the Coventry Office of the Town Clerk, Town Hall, 1670 Flat River Road, Coventry, RI 02816 until **2:00 p.m.** prevailing time, on **Tuesday, June 9, 2026**. Said bids will be publicly opened and read aloud in the Town Council Chambers, Town Hall, 1670 Flat River Road at **2:05 p.m.** prevailing time, on **Tuesday, June 9, 2026**.

Bid security in the form of a bid bond, cash, certified check, treasurer's or cashier's check, payable to the "Town of Coventry", is required in a dollar amount of **five percent (5%)** of the total bid, in accordance with the conditions in Section 00100, INFORMATION FOR BIDDERS.

Paper copies of the Contract Documents may be obtained on or after **Monday, May 18, 2026**, at the Coventry Department of Public Works, 1668 Flat River Road, Coventry, RI 02816, on weekdays from 8:00 a.m. to 4:00 p.m., upon payment of **\$50.00 (NON-REFUNDABLE)** for each set, or to obtain electronic copies at no cost, send an email request to Mr. Paul Bannon at paul.bannon@crossmaneng.com. Please put Hopkins Hill Road Traffic Signal Installation Project in the subject line. Certified checks or money orders shall be made payable to the "Town of Coventry".

The selected contractor shall furnish a performance bond and a payment bond in amount at least equal to one hundred percent (100%) of the contract price as stipulated in Section 00700, GENERAL CONDITIONS of these specifications.

All bids for this project are subject to applicable federal and state laws. Bidders shall be required to comply with "Equal Opportunity Clause" and "Nondiscrimination in Employment", as well as Federal Executive Order No. 11246 and RI Executive Order No. 85-11, including any amendments and supplements relating thereto.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the contract as determined by the Department of Labor and Industries under the provisions of Title 37 of the Rhode Island General Laws, Chapters 12 and 13, as amended.

A **mandatory** Prebid Conference will be held on **Wednesday, May 27, 2026**, commencing at **10:00 a.m.** at the project site located at the Hopkins Hill Road intersection with Centre of New England Boulevard. Any request for interpretation of plans and specifications may be submitted in writing at that time. Bidders will have an opportunity to view the site work following the Prebid Conference.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of **ninety (90) working days**, Saturdays, Sundays and legal holidays excluded after the opening of bids.

In addition to those items specified in the "Information For Bidders" documents, the Coventry Public Works will take into consideration the following factors: (1) demonstrated experience in the type of work required; (2) record of bidder in accomplishing work on other, similar projects in required time frame; (3) quality of work previously performed by the bidder for the Town of Coventry, if any; (4) recent experience showing accuracy of cost estimates.

The Owner reserves the right to waive any informality or to reject any or all bids.

TOWN OF COVENTRY PUBLIC WORKS

END OF SECTION 00020

SECTION 00100

INFORMATION FOR BIDDERS

1. Receipt and Opening of Bids
2. Location and Work to be Done
3. Deposit on Documents
4. Preparation of Bid
5. Telegraphic Modification
6. Obligation of Bidder
7. Information not Guaranteed
8. Bid Security
9. Time for Completion
10. Addenda and Interpretations
11. Bid Opening Procedure
12. Comparison of Bids
13. Statutes Regulating Competitive Bidding
14. Right to Reject Bid
15. Award of Bid
16. Conditions of Work
17. Security for Faithful Performance
18. Power of Attorney
19. Laws and Regulations
20. Liquidated Damages for Failure to Enter into Contract
21. Items and Indeterminate Items
22. CONTRACTOR Records

1. Receipt and Opening of Bids

The Town of Coventry, herein called the OWNER, will receive sealed Bids for the construction of the **Hopkins Hill Road Traffic Signal Installation Project**.

Such bids addressed to the Department of Public Works and endorsed **Bid for Hopkins Hill Road Traffic Signal Installation Project**, will be received at the Coventry, Office of the Town Clerk, c/o Department of Public Works, Town Hall 1670 Flat River Road, Coventry, RI 02816 until **2:00 p.m.** prevailing time, on **Tuesday, June 9, 2026**. Said bids will be publicly opened and read aloud in the Town Council Chambers, Town Hall, 1670 Flat River Road at **2:05 p.m.** prevailing time, on **Tuesday, June 9, 2026**.

Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified will not be considered. The bidder agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) days, Saturdays, Sundays, and legal holidays excluded, after the opening of bids.

2. Location and Work to be Done

The location, general characteristics, and principal details of the Work are indicated on a set of drawings included in this document.

Additional drawings showing details in accordance with which the Work is to be done may be furnished by addendum from time to time during the bidding period by the ENGINEER, and shall then become a part of the Contract Documents.

The CONTRACTOR shall furnish all labor, services, materials, equipment, plant, machinery, apparatus, appliances, tools, supplies, and all other items necessary to do all work required for the completion of each item of the Work and as herein specified.

The Work to be done and paid for under any item shall not be limited to the exact extent mentioned or described but shall include all incidental work necessary or customarily done for the completion of that item.

3. Deposit on Documents

A non-refundable deposit, in the amount as specified in Section 00020, ADVERTISEMENT FOR BIDS, in cash or check payable to the “Town of Coventry” will be required on each set of Contract Documents taken.

4. Preparation of Bid

Each bid must be submitted on the prescribed forms. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the bidder, his address, and endorsed with the name of the project as specified in Receipt and Opening of Bids, above.

If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed as specified in Receipt and Opening of Bids, above.

5. Telegraphic Modification

Any bidder may modify his bid by facsimile transmission at any time prior to the scheduled closing time for receipt of bids, provided such telegraphic communication is received by the OWNER prior to the closing time, and, provided further, the OWNER is satisfied that a written confirmation of the telegraphic modification over the signature of the bidder was mailed prior to the closing time.

The telegraphic communication shall not reveal the bid price but shall provide the addition or subtraction or other modification so that the final prices or terms will not be known by the OWNER until the sealed bid is opened. If written confirmation is not received within two (2) days from the closing time, no consideration will be given to the telegraphic communication.

6. Obligation of Bidder

At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Contract Documents (including all addenda). The failure or omission of any bidder to examine any form, instrument, or document shall in no way relieve any bidder from any obligation in respect of his bid.

7. Information not Guaranteed

All information given in the Contract Documents relating to subsurface and other conditions, natural phenomena, existing pipes, and other structures is from the best sources at present available to the OWNER. All such information is furnished only for the information and convenience of bidders and is not guaranteed.

It is agreed and understood that the OWNER does not warrant or guarantee that the subsurface or other conditions, natural phenomena, existing pipes, or other structures encountered during construction will be the same as those indicated in the Contract Documents.

It is further agreed and understood that no bidder or CONTRACTOR shall use or be entitled to use any of the information made available to him or obtained in any examination made by him in any manner as a basis of or ground for any claim or demand against the OWNER or the ENGINEER, arising from or by reason of any variance which may exist between the information made available and the actual subsurface or other conditions, natural phenomena, existing pipes or other structures actually encountered during the construction work, except as may otherwise be expressly provided for in the Contract Documents.

8. Bid Security

Each bid must be accompanied by a certified check, a bid bond, cash, a treasurer's or cashier's check, payable to the OWNER, in the amount stated in Section 00020, ADVERTISEMENT FOR BIDS. Such deposits will be returned to all except the three (3) lowest responsible and eligible bidders within five (5) days, Saturdays, Sundays, and legal holidays excluded, after the opening of bids, and the remaining deposits will be returned promptly after the OWNER and the accepted bidder have executed the Contract, or if no notice of intent to award has been presented to the selected contractor within thirty (30) days, Saturdays, Sundays and holidays excluded, after the date of the opening of bids, or upon demand of the bidder at any time thereafter.

9. Time for Completion

The bidder must agree to commence work on or before a date to be specified in the written "Notice to Proceed" from the OWNER and to fully complete the project within the time limit stated in Section 00300, BID FORM.

10. Addenda and Interpretations

No interpretation of the meaning of the plans, specifications or other prebid documents will be made to any bidder orally. All information given to bidders other than by means of the plans, specifications, or by addenda, as described below, is given informally and shall not be used as the basis of a claim against the OWNER or the ENGINEER.

Every request for such interpretation should be in writing (typed, not handwritten) and submitted via EMAIL to Paul Bannon of Crossman Engineering at paul.bannon@crossmaneng.com, and to be given consideration it must be received by 2:00 p.m. on **Wednesday, June 3, 2026**. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, when issued, will be mailed by certified mail with return receipt requested to all prospective bidders who have not already received them at the respective address furnished by them for such purposes. Bidders picking up sets of bid documents will be given all addenda issued to date and will be required to sign for all documents, acknowledging receipt. Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his/her bid as submitted. All addenda so issued shall become part of the Contract Documents.

11. Bid Opening Procedure

The following list of requirements shall be met by each filed bid:

- All Bids shall be filed at the place and before the time specified in Receipt and Opening of Bids, above.
- Properly executed bid security shall be placed in a sealed envelope and shall be attached to the outside of the envelope containing the bid.
- Bid signatures will be checked.
- All bidders shall include with their bids written acknowledgment of receipt of all addenda.
- The total dollar amount of each bid will be read aloud for all bids.

12. Comparison of Bids

Bids will be compared on the basis of the quantities and unit and lump sum prices stated in the bid forms.

In the event that there is a discrepancy in Section 00300, BID FORM between the total prices written in words and figures, the prices written in words will govern.

The OWNER agrees to examine and consider each BID FORM submitted in consideration of the bidder's agreements, as hereinabove set forth and as set forth in Section 00300, BID FORM.

13. Statutes Regulating Competitive Bidding

Any bid which does not comply with the provisions of all applicable Rhode Island General Laws need not be accepted, and the OWNER may reject every such bid.

14. Right to Reject Bid

The OWNER may consider informal any bid not prepared and submitted in accordance with the provisions hereof and may waive any informalities or reject any and all bids, should the OWNER deem it to be in the public interest to do so.

The OWNER may also reject bids which in its sole judgment are either incomplete, conditional, obscure or not responsive or which contain additions not called for, erasures not properly initialed, alterations, or similar irregularities, or the OWNER may waive such omissions, conditions or irregularities.

15. Award of Bid

After the Proposals are opened and read, they will be compared on the basis of the quantities and unit and lump sum prices stated in the bid forms and the evaluation criteria. The results of such comparisons will be made available to the public. Award will be made to the Bidder offering the most advantageous bid after consideration of all Evaluation Criteria set forth below. The criteria are not listed in any order of preferences. The Town of Coventry will evaluate all bids received in accordance with the Evaluation Criteria. The Town of Coventry reserves the right to establish weight factors and evaluation scores that will be applied to the criteria depending upon order of importance. Weight factors and evaluation scores, if established, will not be released until after award of bid. The Town of Coventry shall not be obligated to accept the lowest priced bid, but will make an award in the best interests of the after all factors have been evaluated. The Town of Coventry reserves the right to reject any or all Proposals, to waive technicalities or to advertise for new Proposals.

In determining the lowest responsible bidder, the Town of Coventry shall consider the following:

1. The ability, capacity and skill of the bidder to perform the contract or provide the service required.
2. Record of bidder performing work on other, similar projects in the required time frame.
3. The character, integrity, reputation, judgment, experience and efficiency of the bidder.
4. The quality of performance of previous contracts or services.
5. The previous and existing compliance by the bidder with laws and ordinances relating to the contract or service.
6. The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service.
7. The quality, availability and adaptability of the supplies or contractual services to the particular use required.
8. The ability of the bidder to provide the future maintenance and service for the use of the subject of the contracts.
9. Quality of work performed previously by the bidder for the Town of Coventry, if any.
10. Recent experience of the bidder showing accuracy of cost estimates.
11. **BIDDER'S BACKGROUND:** Bidder must provide a company profile. Information shall include:
 - a. Company ownership. If incorporated, the state in which the company is incorporated and the date of incorporation.
 - b. Location of the company offices.
 - c. Number of employees both locally and nationally.
 - d. Location(s) from which employees will be assigned.

- e. Name, address, and telephone number of the Bidder's point of contact for a contract resulting from this RFP.
- f. Company background/history and why the Bidder is qualified to provide the services described in this RFP.
- g. Length of time the Bidder has been providing services described in this RFP. Please provide a brief description.
- h. Resumes for key staff to be responsible for performance of any contract resulting from this RFP.

Bidder must include in his proposal a complete disclosure of any alleged significant prior or ongoing contract failures, any civil or criminal litigation or investigation pending which involves the Bidder or in which the Bidder has been judged guilty or liable. Failure to comply with the terms of this provision will disqualify any proposal. The Town of Coventry reserves the right to reject any proposal based upon the Bidder's prior history with the Town of Coventry or with any other party, which documents, without limitation, unsatisfactory performance, adversarial or contentious demeanor, significant failure(s) to meet contract milestones or other contractual failures.

12. **BIDDER'S REFERENCES:** Bidders should provide a minimum of five (5) references from similar projects performed for any local government clients within the last five (5) years. Information provided shall include:
 - a. Client/Business name;
 - b. Project description;
 - c. Project dates (starting and ending);
 - d. Client/Business project manager name and telephone number.
13. **QUALIFICATION OF BIDDERS:** Each Bidder shall be skilled and regularly engaged in the general class or type of work called for under the contract for no less than three (3) years. It is the intention of the Town of Coventry to award a contract to a Bidder who furnishes satisfactory evidence that the Bidder has the requisite experience, ability, sufficient capital, facilities, and plant to enable the Bidder to prosecute the work successfully and properly, and to complete it within the time specified in the contract. To determine the degree of responsibility to be credited to the Bidder, the Town of Coventry will weigh any evidence that the Bidder has performed satisfactorily other contracts of like nature, magnitude and comparable difficulty and comparable rates of progress. In selecting the lowest responsive and responsible Bidder, consideration will be given not only to the financial standing but also to the general competency of the Bidder for the performance of the work covered and/or specified in the contract documents. To this end, each Proposal shall be supported by a statement of the Bidder's experience.

The Town of Coventry may make such investigations as it seems necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Town of

Coventry all such information and data for this purpose as the Town of Coventry may request. The Town of Coventry reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Town.

When a bid is awarded to other than the lowest bid, a full and complete statement of the reasons for such action shall be prepared, maintained, and placed on the public record.

The Town of Coventry's decision or judgment on these matters will be final, conclusive, and binding.

16. Conditions of Work

Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. Insofar as possible the CONTRACTOR, in carrying out his work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.

17. Security for Faithful Performance

Simultaneously with his delivery of the executed Contract, the CONTRACTOR shall furnish a surety bond or bonds as security for faithful performance of this Contract and for the payment of all persons performing labor and materials under this Contract as specified in Section 00700, GENERAL CONDITIONS included herein. The surety on such bond or bonds shall be a surety company qualified to do business under the laws of the State of Rhode Island and satisfactory to the OWNER. The bonds shall remain in force for one (1) year after final acceptance of the work by the OWNER, unless the OWNER, in writing, releases the CONTRACTOR from the obligation sooner.

18. Power of Attorney

Attorneys-in-fact who sign Contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

19. Laws and Regulations

The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances, and the rules and regulations of all authorities having jurisdiction over construction of the project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as though herein written out in full. Attention is directed to Section 00820 and to other applicable sections of this specification.

20. Liquidated Damages for Failure to Enter into Contract

The successful bidder, upon his failure or refusal to execute and deliver the Contract and bonds required within five (5) days after he/she has received notice of the acceptance of his/her bid, shall forfeit to the OWNER, as liquidated damages for such failure or refusal, the security deposited with his/her bid, provided that the amount forfeited shall not exceed the difference between his/her bid price and the bid price of the next lowest responsible and eligible bidder. In case of death, disability, bona fide clerical or mechanical error of a substantial nature, or other similar unforeseen circumstances affecting the bidder, his/her bid deposit will be returned.

21. Items and Indeterminate Items

The work to be done under this Contract has been divided into parts or items to enable each bidder to bid on different portions of the work in accordance with his estimate of their cost and so that the actual quantity of work executed under each item may be paid for at the price bid for that particular item, even though each bidder may have judged that such quantity may be greater or less than the estimated quantity stated in Section 00300, BID FORM.

22. CONTRACTOR Records

The CONTRACTOR shall comply with the provisions of all applicable State and Federal laws concerning CONTRACTOR records.

END OF SECTION 00100

SECTION 00300

BID FORM

Proposal of _____(hereinafter called “Bidder”) *

(_____) a corporation, organized and existing under the laws of the State of _____

(_____) a joint venture

(_____) a partnership

(_____) an individual doing businesses as _____

To the Town of Coventry (hereinafter called the Owner).

Gentlemen:

The Bidder, in compliance with your invitation for bids for the construction of the **Town of Coventry Hopkins Hill Road Traffic Signal Installation Project**, having examined the plans and specifications with related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies and to construct the project in accordance with the Contract Documents, as prepared by Crossman Engineering within the time set forth therein and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the Contract Documents, of which this proposal is a part.

The Bidder hereby agrees to commence work under this contract on or before a date to be specified in written "Notice to Proceed" from the Owner and to substantially complete the project by the schedule as shown in Section 00500. The Bidder further agrees to pay as liquidated damages the sum of **\$500.00** for each consecutive calendar day thereafter during which the work has not been fully completed, as provided in the "Liquidated Damages" paragraph of Section 00700, GENERAL CONDITIONS.

*Insert corporation, partnership, joint venture, or individual as applicable.

Bidder acknowledges receipt of the following addenda:

No. _____ Dated _____

No. _____ Dated _____

PROPOSAL ITEMS

- A. CONTRACTOR agrees to perform all the WORK, including provision of all labor, materials, equipment and incidental items necessary for the satisfactory completion of the WORK in full compliance with the contents and intent of the PLANS and CONTRACT DOCUMENTS, for the following prices listed below.
- B. All prices, except unit prices, shall be stated in both words and figures. In the event of a discrepancy between the price in words and the price in figures, the words shall govern. In the event of a discrepancy between the subtotal of the items and the total stated, the total of the items shall govern.
- C. All prices shall be typewritten or written legibly by hand in ink.
- D. CONTRACTOR certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used herein the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.
- E. CONTRACTOR certifies under the penalties of perjury that the aid undersigned is not presently debarred from doing public construction work in the State of Rhode Island, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.
- F. CONTRACTOR certifies that he/she has received and reviewed the plans and CONTRACT DOCUMENTS dated **May 2026** and Titled: **Hopkins Hill Road Traffic Signal Installation, Intersection of Hopkins Hill Road at Centre of New England Boulevard**.
- G. CONTRACTOR hereby certifies that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the WORK, and that he/she will comply fully with all laws and regulations applicable to awards made in the State of Rhode Island.
- H. This proposal must bear the written signature of the CONTRACTOR or an authorized agent of the CONTRACTOR. If the CONTRACTOR is a corporation or a partnership, the proposal must be signed by a duly authorized officer of such corporation or by a partner, and the title of such officer must be stated.
- I. **EXPERIENCE:** CONTRACTOR shall submit with the bid proposal the following: Qualifications of full time, on-site construction supervisor. The successful Bidder shall have an on-site construction supervisor with at least ten (10) years experience in the construction and installation of roadways. The use of a specific construction supervisor will be only upon approval of the Town of Coventry. The qualifications of the proposed construction supervisor shall be submitted to the Owner. It should be noted that failure to provide the stated agreed upon construction supervision throughout all aspects of the project may be grounds for bid rejection, not accepting work or contract termination. The substitution of construction supervision, without written approval of the Town of Coventry, may be grounds for termination. Refer to Section 00700, Article 11: Superintendence by the Contractor for additional information.

**BID SCHEDULE
TOWN OF COVENTRY
HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT
COVENTRY, RHODE ISLAND**

Item No.	Work or Material	Estimated Quantity	Unit	Unit Price	Total Price
1.	Remove and Dispose Curb	64	LF		
2.	Remove and Stockpile Cobblestones	74	SY		
3.	Portland Cement Concrete Sidewalk and Driveway	85	SY		
4.	Granite Curb	48	LF		
5.	Precast Concrete Curb	16	LF		
6.	6 AWG Single Conductor Cable 600V Insulation	165	LF		
7.	14 AWG Conductor Cable	4365	LF		
8.	Video Camera Cable	355	LF		
9.	Handholes	4	EA		
10.	Conduit Underground	120	LF		
11.	Conduit Under Existing Pavement	240	LF		
12.	Conduit Overhead	20	LF		
13.	Dual Mast Arm (50'x45') Galvanized Steel Traffic Signal Post and Foundation STD 19.2.0	1	EA		
14.	Traffic Signal STD. 8 Foot STD. 19.4.0 Aluminum Pedestal and Foundation	1	EA		
15.	Traffic Signal STD. 10 Foot STD 19.4.0 Aluminum Pedestal and Foundation	1	EA		
16.	YUNEX M60, NEMA TS-2, Type 1, 8 Phase Actuated Controller including FMU, Cabinet and Foundation	1	EA		
17.	Meter Socket and Manual By-Pass	1	EA		
18.	Accessible Pedestrian Detector – Push Button with Sign	4	EA		
19.	Intersection Wide 360 Degree Video Detection System – AXIS M4318-PLVE Panoramic Camera	1	EA		
20.	Video Processor Unit – CURRUX Vision ITS Video Detection System Equipment	1	EA		
21.	Vehicular and Pedestrian Signal Heads	12	EA		
22.	Pavement Markings	540	LF		
23.	Remove Pavement Markings	160	LF		

Item No.	Work or Material	Estimated Quantity	Unit	Unit Price	Total Price
24.	Traffic Protection	1	LS		
25.	Mobilization/Demobilization	1	LS		
26.	Police Detail Allowance	-	HRS	\$101.54	\$25,000.00
TOTAL PRICE =				\$	*
WRITTEN IN WORDS:					

RESPECTIVELY SUBMITTED:

BY _____ DATE _____
(Signature and Title of Person Authorized to Sign Proposal)

(Name of Contractor)

(Business Street Address)

(Business City and State)

(Business Phone)

SEAL (If proposal is by a corporation)

ATTEST _____

END OF SECTION 00300

SECTION 00310

BID BOND

KNOWN BY ALL MEN BY THESE PRESENTS: that we the under signed, _____, as Principal, and _____, as Surety, are held hereby held firmly bound unto the Town of Coventry, in the penal sum of _____ Dollars, (\$ _____) for the payment of which will and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the Town of Coventry, certain bid attached hereto and hereby made of Contract for Hopkins Hill Road Traffic Signal Installation Project.

NOW THEREFORE,

- (a) If said Bid shall be rejected or;
- (b) If said Bid shall be accepted and the principal shall execute and deliver a contract in the form of a contract attached hereto (properly completed in accordance with said BID) and shall furnish a bond for his/her faithful performance of said contract and for payment of all persons performing labor and furnishing materials in connection therewith and shall in all respects perform the agreement created by the acceptance of said Bid,

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability and surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety, and its Bond shall in no way be impaired or affected by any extension of the time within which the Owner may accept such Bid; and said Surety does hereby waive notice of any extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year set forth above.

	Notary and Seal
Principal	

By: _____

	Notary and Seal
Surety	

By: _____

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

SECTION 00380

PROPOSED SUBCONTRACTORS

THE BIDDER SHALL STATE THE NAMES OF ALL THE SUBCONTRACTORS THAT HE/SHE PROPOSES TO USE:

(If none, write “None”)

1. Proposed Subcontractor: _____

Address: _____

Description of Work: _____

2. Proposed Subcontractor: _____

Address: _____

Description of Work: _____

3. Proposed Subcontractor: _____

Address: _____

Description of Work: _____

(Attach Sheet of additional Subcontractors)

This is to certify that all names of the above-mentioned subcontractors are submitted with full knowledge and consent of the respective parties.

The Bidder warrants that none of the proposed subcontractors have any conflict of interest with respect to this Contract.

BIDDER: _____

BY: _____

(Signature and Title)

Certificate of Non-Collusion

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and with non-collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union committee, club, or other organization, entity or group of individuals.

Printed Name

Name of Business

Signature

Date

SECTION 00441

SECTION 18 EEO REQUIREMENTS

SECTION 18. EEO REQUIREMENTS

**Equal Employment Opportunity
Executive Order 11246 As Amended
By Executive Order 11375**

**U.S. Department of Labor
Employment Standards Administration
Office of Federal Contract Compliance Programs**

**OCCP-4
November 1975**

Under and by virtue of the authority vested in me as President of the United States, it is ordered as follows:

PART I - NONDISCRIMINATION IN GOVERNMENT EMPLOYMENT

[Part I superseded by EO 11478 of Aug. 8, 1969, 34 FR 12985, 3 CFR, 1966-1970 Comp., p.803]

PART II - NONDISCRIMINATION IN EMPLOYMENT BY GOVERNMENT CONTRACTORS AND SUBCONTRACTORS

Subpart A - Duties of the Secretary of Labor

SEC. 201. The Secretary of Labor shall be responsible for the administration of parts II and II of this order and shall adopt such rules and regulations and issue such orders as he deems necessary and appropriate to achieve the purposes thereof.

[Sec. 201 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p.230]

Subpart B - Contractor's Agreements

SEC. 202. Except in contracts exempted in accordance with section 204 of this order all Government contracting agencies shall include in every Government contract hereafter entered into the following provisions:

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The contractor will take affirmative action to ensure that applicants are employed and that employees are treated during employment, without regard to their race, color, religion, sex or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.

(3) The contractor will send to each labor union or representative of workers with which he has collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or worker's representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) The contractor will comply with all provisions of Executive Order No. 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.

(5) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations and orders.

(6) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of September 24, 1965, and such other sanctions may be imposed and remedies involved as provided in Executive Order No. 11246 of September 24, 1965, or by rules, regulation, or order of the Secretary of Labor or as otherwise provided by law.

(7) The contractor will include the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order No. 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: *Provided, however*, that in the event the contractor becomes involved in, or threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

SEC. 203. (a) Each contractor having a contract containing the provisions prescribed in section 202 shall file, and shall cause each of his subcontractors to file, compliance reports with the contracting agency or the Secretary of Labor as may be directed. Compliance reports shall be filed within such times and shall contain such information as to the practices, policies, programs, and employment policies, programs, and employment statistics of the contractor and each subcontractor, and shall be in such form as the Secretary of Labor may prescribe.

(b) Bidders or prospective contractors or subcontractor may be required to state whether they have participated in any previous contract subject to the provisions of this order, or any preceding similar executive order, and in that event to submit on behalf of themselves and their proposed subcontractors, compliance reports prior to or as an initial part of their bid or negotiation of a contract.

(c) Whenever the contractor or subcontractor has a collective bargaining agreement or other contract or understanding with a labor union or an agency referring workers or providing or supervising apprenticeship or training for such workers, the compliance report shall include such information as to such labor union's or agency's practices and policies affecting compliance as the Secretary of Labor may prescribe: *Provided*, that to the extent such information is within the exclusive possession of a labor union or an agency referring workers or providing or supervising

apprenticeship or training and such labor union or agency shall refuse to furnish such information to the contractor, the contractor shall so certify to the contracting agency as part of its compliance report and shall set forth what efforts he has made to obtain such information.

(d) The contracting agency or the Secretary of Labor may direct that any bidder or prospective contractor or subcontractor shall submit, as part of his compliance report, a statement in writing, signed by an authorized officer or agent on behalf of any labor union or agency referring working or providing or supervising apprenticeship or other training, with which the bidder or prospective contractor deals with supporting information to the effect that the signer's practices and policies do not discriminate on the grounds of race, color, religion, sex, or national origin, and that the signer either will affirmatively cooperate in the implementation of the policy and provisions of this order or that it consents and agrees that recruitment, employment and the terms and conditions of employment under the proposed contract shall be in accordance with the purposes and provisions of the order. In the event that the union or the agency, shall refuse to execute such a statement, the compliance report shall so certify and set forth what efforts have been made to secure such a statement and such additional factual material as the contracting agency or the Secretary of Labor may require.

[Sec. 203, amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966-1970 Comp., p. 684; EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC 204. The Secretary of Labor may, when he deems that special circumstances in the national interest so required, exempt a contracting agency from the requirement of including any or all of the provisions of Section 202 of this order in any specific contract, subcontract, or purchase order. The Secretary of Labor may, by rule or regulation, also exempt certain classes of contracts, subcontracts, or purchase orders: (1) whenever work is to be or has been performed outside the United States and no recruitment of workers within the limits of the United States is involved; (2) for standard commercial supplies or raw materials; (3) involving less than specified amounts of money or specified numbers of workers; or (4) to the extent that they involve subcontracts below a specified tier. The Secretary of Labor may also provide, by rule, regulation or order for the exemption of facilities of a contractor which are in all respects separate and distinct from activities of the contractor related to the performance of the contract; *Provided*, that such an exemption will not interfere with or impede the effectuation of the purposes of this order; *And provided further*, that in the absence of such an exemption all facilities shall be covered by the provisions of this order.

Subpart C - Powers and Duties of the Secretary of Labor and the Contracting Agencies

SEC 205. The Secretary of Labor shall be responsible for securing compliance by all Government contractors and subcontractors with this Order and any implementing rules or regulations, or orders of the Secretary of Labor. Contracting agencies shall cooperate with the Secretary of Labor and shall furnish such information and assistance as the Secretary may require.

[Sec. 205, amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 206. The Secretary of Labor may investigate the employment practices of any Government contractor or subcontractor to determine whether or not the contractual provisions specified in Section 202 of this Order have been violated. Such investigation shall be conducted in accordance with the procedures established by the Secretary of Labor.

(b) The Secretary of Labor may receive and investigate complaints by employees or prospective employees of a Government contractor or subcontractor which allege discrimination contrary to the contractual provisions specified in Section 202 of this order.

[Sec. 206 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 207. The Secretary of Labor shall use his best efforts, directly and through contracting agencies, other interested Federal, State and local agencies, contractors and all other available instrumentalities to cause any labor union engaged in work under Government contracts or any agency referring workers or providing or supervising apprenticeship or training for or in the course of such work to cooperate in the implementation of the purposes of this order. The Secretary of Labor shall, in appropriate cases, notify the Equal Employment Opportunity Commission, the Department of Justice, or other appropriate Federal agencies whenever it has reason to believe that the practices of any such labor organization or agency violate Titles VI or VII of the Civil Rights Act of 1964 or other provisions of Federal law.

[Sec. 207 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 208. (a) The Secretary of Labor, or any agency, officer, or employee in the executive branch of the Government designated by rule, regulation or order of the Secretary, may hold such hearings, public or private, as the Secretary may deem advisable for compliance, enforcement, or educational purposes.

(b) The Secretary of Labor may hold, or cause to be held, hearings in accordance with subsection (a) of this section prior to imposing, ordering, or recommending the imposition of penalties and sanctions under this order. No order for debarment of any contractor from further Government contracts under section 209(a)(6) shall be made without affording the contractor an opportunity for a hearing.

Subpart D - Sanctions and Penalties

SEC. 209. (a) In accordance with such rules, regulations, or orders as the Secretary of Labor may issue or adopt, the Secretary or the appropriate contracting agency may:

(1) Publish, or cause to be published, the names of contractors or unions which it has concluded have complied or have failed to comply with the provisions of this order or of the rules, regulations and orders of the Secretary of Labor.

(2) Recommend to the Department of Justice that, in cases in which there is substantial or material violation or the threat of substantial or material violation of the contractual provisions set forth in section 202 of this order, appropriate proceedings be brought to enforce those provisions, including the enjoining, within the limitations of applicable law of organizations, individuals or

groups who prevent directly or indirectly, or seek to prevent directly or indirectly, compliance with the provisions of this order.

(3) Recommend to the Equal Employment Opportunity Commission or the Department of Justice that appropriate proceedings be instituted under Title VII of the Civil Rights Act of 1964.

(4) Recommend to the Department of Justice that criminal proceedings be brought for the furnishing of false information to any contracting agency or to the Secretary of Labor as the case may be.

(5) After consulting with the contracting agency, direct the contracting agency to cancel, terminate, suspend, or cause to be canceled, terminated, or suspended, any contract, or any portion or portions thereof, for failure of the contractor or subcontractor to comply with equal employment opportunity provisions of the contract. Contracts may be canceled, terminated or suspended absolutely or continuance of contracts may be conditioned upon a program for future compliance approved by the Secretary of Labor.

(6) Provide that any contracting agency shall refrain from entering into further contracts, or extensions or other modifications of existing contracts, with any noncomplying contractor, until such contractor has satisfied the Secretary of Labor that such contractor has established and will carry out personnel and employment policies in compliance with the provisions of this Order.

(b) Pursuant to rules and regulations prescribed by the Secretary of Labor, the Secretary shall make reasonable efforts, within a reasonable time limitation, to secure compliance with the contract provisions of this Order by methods of conference, conciliation, mediation, and persuasion before proceedings shall be instituted under subsection (a)(2) of this Section, or before a contract shall be canceled or terminated in whole or in part under subsection (a)(5) of this Section.

[Sec. 209 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 210. Whenever the Secretary of Labor makes a determination under Section 209, the Secretary shall promptly notify the appropriate agency. The agency shall take the action directed by the Secretary and shall report the results of the action it has taken to the Secretary of Labor within such time as the Secretary shall specify. If the contracting agency fails to take the action directed within thirty days, the Secretary may take the action directly.

[Sec. 210 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 211. If the Secretary shall so direct, contracting agencies shall not enter into contracts with any bidder of prospective contractor unless the bidder or prospective contractor has satisfactorily complied with the provisions of this Order or submits a program for compliance acceptable to the Secretary of Labor.

[Sec. 211 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 212. When a contract has been canceled or terminated under Section 209(a)(5) or a contractor has been debarred from further Government contracts under Section 209(a)(6) of this Order, because of noncompliance with the contract provisions specified in Section 202 of this Order,

the Secretary of Labor shall promptly notify the Controller General of the United States.

[Sec. 212 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

Subpart E - Certificates of Merit

SEC. 213. The Secretary of Labor may provide for issuance of a United States Government Certificate of Merit to employers or labor unions, or other agencies which are or may hereafter be engaged in work under Government contracts, if the Secretary is satisfied that the personnel and employment practices of the employer, or that the personnel, training, apprenticeship, membership, grievance and representation, upgrading, and other practices and policies of the labor union or other agency conform to the purposes and provisions of this Order.

SEC. 214. Any certificate of merit may at any time be suspended or revoked by the Secretary of Labor if the holder thereof, in the judgement of the Secretary has failed to comply with the provisions of this order.

SEC. 215. The Secretary of Labor may provide for the exemption of any employer, labor union, or other agency from any reporting requirements imposed under or pursuant to this order if such employer, labor union or other agency has been awarded a certificate of merit which has not be suspended or revoked.

PART III - NONDISCRIMINATION PROVISIONS IN FEDERALLY ASSISTED CONSTRUCTION CONTRACTS

SEC. 301. Each executive department and agency which administers a program involving Federal financial assistance shall require as a condition for the approval of any grant, contract, loan, insurance, or guarantee thereunder, which may involve a construction contract, that the applicant for Federal assistance undertake and agree to incorporate or cause to be incorporated into all construction contracts paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to such grant, contract, loan, insurance, or guarantee or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the provisions prescribed for Government contracts by section 202 of this order or such modification thereof, preserving in substance the contractor's obligations thereunder, as may be approved by the Secretary of Labor, together with such additional provisions as the Secretary deems appropriate to establish and protect the interest of the United States in the enforcement of those obligations. Each such applicant shall also undertake and agree: (1) to assist and cooperate actively with the administering department or agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with those contract provisions and with the rules, regulations, and relevant orders of the Secretary; (2) to obtain and to furnish to the administering department or agency and to the Secretary of Labor such information as they may require for the supervision of such compliance; (3) to carry out sanctions and penalties for violation of such obligations imposed upon contractors and subcontractors by the Secretary of Labor or the administering department or agency pursuant to Part II Subpart D of this order; and (4) to refrain from entering into any contract subject to this order or extension or other modification of

such a contract with a contractor debarred from Government contracts under Part II Subpart D of this order.

[Sec. 301 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC 302. (a) "Construction Contract" as used in this order means any contract for the construction, rehabilitation, alteration, conversion, extension, or repair of buildings, highways, or other improvements to real property.

(b) The provisions of Part II of this order shall apply to such construction contracts and for purposes of such application, the administering department or agency shall be considered the contracting agency referred to therein.

(c) The term "applicant" as used in this order means an applicant for Federal assistance or, as determined by agency regulation, other program participant, with respect to whom an application for any grant, contract, loan, insurance or guarantee is not finally acted upon prior to the effective date of this part, and it includes such an applicant after he becomes a recipient of such Federal Assistance.

SEC. 303 (a) Each administering department and agency shall be responsible for obtaining the compliance of such applicants with their undertakings under this order. Each administering department and agency is directed to cooperate with the Secretary of Labor, and to furnish the Secretary such information and assistance as he may require in the performance of his functions under this order.

(b) In the event an applicant fails and refuses to comply with his undertakings, the administering department or agency may take any or all of the following actions: (1) cancel, terminate, or suspend in whole or in part the agreement, contract, or other arrangement with such applicant with respect to which the failure and refusal occurred; (2) refrain from extending any further assistance to the applicant under the program with respect to which the failure or refusal occurred until satisfactory assurance of future compliance has been received from such applicant; and (3) refer the case to the Department of Justice for appropriate legal proceedings.

(c) In no case shall action be taken with respect to an applicant pursuant to clause (1) or (2) of subsection (b) without notice and opportunity for hearing.

[Sec. 303 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 304. Any executive department or agency which imposes by rule, regulation or order requirements of nondiscrimination in employment, other than requirements imposed pursuant to this order, may delegate to the Secretary of Labor by agreement such responsibilities with respect to compliance standards, reports and procedures as would tend to bring the administration of such requirements into conformity with the administration of requirements imposed under this order. Provided, that actions to effect compliance by recipients of Federal financial assistance with requirements imposed pursuant to Title VI of the Civil Rights Act of 1964 shall be taken in conformity with the procedures and limitations prescribed in Section 602 thereof and the regulations of the administering department or agency issued thereunder.

PART IV - MISCELLANEOUS

SEC. 401. The Secretary of Labor may delegate to any officer, agency, or employee in the executive branch of the Government, any function or duty of the Secretary under Part II and III of this order, except authority to promulgate rules and regulations of a general nature.

[Sec. 401 amended by EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230]

SEC. 402. The Secretary of Labor shall provide administrative support for the execution of the program known as the "Plans of Progress".

SEC. 403. (a) Executive Orders Nos. 10590 (Jan. 18, 1955), 10722 (Aug. 5, 1957), 10925 (Mar. 6, 1961), 11114 (June 22, 1963) and 11162 (July 28, 1964), are hereby superseded and the President's Committee on Equal Employment Opportunity established by Executive Order No. 10925 is hereby abolished. All records and property in the custody of the committee shall be transferred to the Civil Service Commission and the Secretary of Labor, as appropriate.

(b) Nothing in this order shall be deemed to relieve any person of any obligation assumed or imposed under or pursuant to any executive order superseded by this order. All rules, regulations, orders, instructions, designations and other directives issued by the President's Committee on Equal Employment Opportunity and those issued by the heads of various departments or agencies under or pursuant to any of the executive orders superseded by this order, shall to the extent that they are not inconsistent with this order, remain in full force and affect unless and until revoked or superseded by appropriate authority. References in such directives to provisions of the superseded orders shall be deemed to be references to the comparable provisions of this order.

[Sec. 403 amended by EO 12107 of Dec. 28, 1978, 44 FR 1055, 3 CFR, 1978 Comp., p. 264]

SEC. 404. The General Services Administration shall take appropriate action to revise the standard Government contract forms to accord with the provisions of this order and of the rules and regulations of the Secretary of Labor.

SEC. 405. This order shall become effective 30 days after the date of this order.

LYNDON B. JOHNSON

THE WHITE HOUSE
September 24, 1965

END SECTION 00441

SECTION 00500

AGREEMENT

THIS AGREEMENT, made this _____ day of _____, 2026, by and between the Town of Coventry, hereinafter called "OWNER" and _____ doing business as (an individual), or (a partnership), or (a corporation) hereinafter called "CONTRACTOR".

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The Contractor will commence and complete the construction of **Hopkins Hill Road Traffic Signal Installation Project**.
2. The Contractor will furnish all of the material, supplies, tools, equipment, labor, and other services necessary for the construction and completion of the project described herein.
3. The Contractor will commence the work required by the Contract Documents per the date of the NOTICE TO PROCEED and shall complete by the total number of weeks shown in Paragraph 4 unless the period for completion is extended otherwise by the Specifications. Work shall begin no later than _____, 2026, unless approved by the Town of Coventry. Work performed beyond this contract time period will be subject to liquidated damages. The Contractor agrees to pay as liquidated damages the sum of **\$500.00** for each consecutive calendar day thereafter as provided in Article 51 of the General Conditions.
4. Substantial completion of the work including installation of the traffic signal, Installation of the new concrete and granite curbing for the wheelchair ramps, new concrete sidewalks, removal of a portion of the exiting pavement markings and placing of the new pavement markings as shown on the plans shall be completed by _____.
5. The Contractor agrees to perform all the work described in the Contract Documents and comply with the terms therein for the amount of \$_____ as shown in the Bid Form.
6. The term "CONTRACT DOCUMENTS" means and includes the following:

- NOTICE OF AWARD
- BID FORM
- BID BOND/PAYMENT BOND/PERFORMANCE BOND
- PROPOSED SUBCONTRACTORS
- AGREEMENT
- CERTIFICATE OF OWNER'S AUTHORITY

NOTICE OF AWARD
NOTICE TO PROCEED
GENERAL CONDITIONS
SUPPLEMENTAL CONDITIONS
ADDENDA

TECHNICAL SPECIFICATIONS AND PLANS

ADDENDA:

No. _____, dated _____, 2026

No. _____, dated _____, 2026

No. _____, dated _____, 2026

- 7. The Owner will pay the Contractor in the manner and at such times as set forth in the General Conditions such amounts as required by the Contract Documents.
- 8. Retention from progress payments will be in accordance with the requirements stipulated in the General Conditions.
- 9. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties hereto have executed, or caused to be executed by their duly authorized officials, this Agreement (in _____) each which shall be deemed an original on the date first above written.

OWNER: _____

BY: _____

NAME: _____

TITLE: _____

(SEAL)

ATTEST: _____

NAME: _____

TITLE: _____

CONTRACTOR: _____

BY: _____

NAME: _____

TITLE: _____

(SEAL)

ATTEST: _____

NAME: _____

TOWN OF COVENTRY

NOTICE OF AWARD

TO: _____

DATE:

PROJECT: **HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT**

The OWNER has considered the BID submitted by you for the above-referenced WORK in response to its Request for Bids and information for Bidders. Bids were opened on _____.

You are hereby notified that your BID has been accepted for items per the specifications advertised and in the amount shown in the Bid Schedule.

You are hereby notified to provide the **HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT** specified on the bid upon your receipt of the *Notice to Proceed*. Mobilization is not to begin before _____ unless given permission by the Town of Coventry or his/her agent.

You are required to return an acknowledged copy of this NOTICE OF AWARD to the OWNER.

TOWN OF COVENTRY
OWNER

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the NOTICE TO AWARD is hereby acknowledged this _____ day of _____, 2026.

BY: _____

TITLE: _____

COMPANY: _____

*TOWN OF COVENTRY
c/o DEPARTMENT OF PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI, 02816*

TOWN OF COVENTRY

NOTICE TO PROCEED

TO: _____

DATE:

PROJECT: **HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT**

You are hereby notified to provide the **HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT** in accordance with the agreement dated _____ upon receipt of this notice. Mobilization is not to begin before _____ unless given permission by the Town of Coventry or his/her agent.

You are required to return an acknowledged copy of this NOTICE TO PROCEED to the OWNER.

TOWN OF COVENTRY
OWNER

BY: _____

TITLE: _____

ACCEPTANCE OF NOTICE

Receipt of the NOTICE TO PROCEED is hereby acknowledged this _____ day of _____, 2026.

BY: _____

TITLE: _____

COMPANY: _____

*TOWN OF COVENTRY
c/o DEPARTMENT OF PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI, 02816*

SECTION 00600

PAYMENT BOND

KNOWN BY ALL MEN BY THESE PRESENTS: that

hereinafter called Principal, and

hereinafter called "Surety", and licensed to do business under the laws of the Town of Coventry, hereinafter called "Owner" in the penal sum of _____ Dollars (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents of the state of Rhode Island are held and firmly bound to the Town of Coventry.

The CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 2026, a copy of which is hereto attached and made a part hereof for construction described as follows:

HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT

NOW, THEREFORE, if the Principal shall promptly make payments to all persons, firms, SUBCONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK, and for all labor, performed in such work whether by SUBCONTRACTOR OR OTHERWISE, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition of the terms of the Contract or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2026.

ATTEST:

BY _____
(SEAL)

ATTEST:

BY _____
(SEAL)

NOTE: Date of BOND must not be prior to date of Contract. If Contractor is Partnership, all partners shall execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

SECTION 00610

PERFORMANCE BOND

KNOWN BY ALL MEN BY THESE PRESENTS: that we _____,
(Name of Contractor)

a _____ hereinafter called "Principal"
(Corporation, Partnership, Joint Venture or Individual)

and _____ of _____ State of _____
(Surety) (City) (State)

hereinafter call "Surety" and licensed to do business under the laws of the State of Rhode Island are held and firmly bound to and acting herein to the Town of Coventry, hereinafter called "Owner", in the penal sum of _____ Dollars, (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors jointly and severally, firmly, by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 2026, a copy of which is hereto attached and made a part hereof for construction described as follows:

HOPKINS HILL ROAD TRAFFIC SIGNAL INSTALLATION PROJECT

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with or without notice to the Surety and during the demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each one of which shall be deemed an original, this the _____ day of _____, 2026.

ATTEST:

BY: _____
(SEAL)

ATTEST:

BY: _____
(SEAL)

NOTE: Date of BOND must not be prior to date of Contract. If Contractor is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located.

SECTION 00620
FEDERAL WAGE RATES

"General Decision Number: RI20260001 01/30/2026

Superseded General Decision Number: RI20250001

State: Rhode Island

Construction Types: Building, Heavy (Heavy and Marine) and Highway

Counties: Rhode Island Statewide.

BUILDING CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories) HEAVY, HIGHWAY AND MARINE CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/02/2026
1	01/23/2026
2	01/30/2026

ASBE0006-006 09/01/2024

	Rates	Fringes
HAZARDOUS MATERIAL HANDLER (Includes preparation, wetting, stripping, removal scrapping, vacuuming, bagging & disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 49.91	36.63

ASBE0006-008 09/01/2024

	Rates	Fringes
Asbestos Worker/Insulator Includes application of all insulating materials, protective coverings, coatings & finishes to all types of mechanical systems.	\$ 49.91	36.63

BOIL0029-001 01/01/2025

Rates Fringes

BOILERMAKER.....\$ 50.62 28.82

BRRIO003-001 06/01/2022

Rates Fringes

Bricklayer, Stonemason,
Pointer, Caulker & Cleaner.....\$ 46.86 29.14

BRRIO003-002 09/01/2022

Rates Fringes

Marble Setter, Terrazzo
Worker & Tile Setter.....\$ 46.54 30.34

BRRIO003-003 09/01/2022

Rates Fringes

Marble, Tile & Terrazzo
Finisher.....\$ 38.78 29.61

CARP0330-001 06/02/2025

Rates Fringes

CARPENTER (Includes Soft
Floor Layer).....\$ 47.88 30.50
Diver Tender.....\$ 48.68 30.50
DIVER.....\$ 60.83 30.50
Piledriver.....\$ 41.53 29.35
WELDER.....\$ 48.68 30.50

FOOTNOTES:

When not diving or tending the diver, the diver and diver tender shall receive the piledriver rate. Diver tenders shall receive \$1.00 per hour above the pile driver rate when tending the diver.

Work on free-standing stacks, concrete silos & public utility electrical power houses, which are over 35 ft. in height when constructed: \$.50 per hour additional.

Work on exterior concrete shear wall gang forms, 45 ft. or more above ground elevation or on setback: \$.50 per hour additional.

The designated piledriver, known as the ""monkey"": \$1.00 per hour additional.

CARP1121-002 04/21/2025

	Rates	Fringes
MILLWRIGHT.....	\$ 45.72	31.50

ELEC0099-002 06/01/2025

	Rates	Fringes
ELECTRICIAN.....	\$ 56.11	44.10%
Teledata System Installer.....	\$ 42.09	10.45%+15.31

FOOTNOTES:

Work of a hazardous nature, or where the work height is 30 ft. or more from the floor, except when working OSHA-approved lifts: 20% per hour additional.

Work in tunnels below ground level in combined sewer outfall: 20% per hour additional.

ELEV0039-001 01/01/2025

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 64.52	38.435+a+b

FOOTNOTES:

a. PAID HOLIDAYS: New Years Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.

b. Employer contributes 8% basic hourly rate for 5 years or more of service of 6% basic hourly rate for 6 months to 5 years of service as vacation pay credit.

ENGI0057-001 12/01/2025

	Rates	Fringes
Operating Engineer: (power plants, sewer treatment		

plants, pumping stations,
tunnels, caissons, piers,
docks, bridges, wind
turbines, subterranean &
other marine and heavy
construction work)

GROUP 1.....	\$ 51.30	29.95
GROUP 2.....	\$ 49.30	29.95
GROUP 3.....	\$ 44.92	29.95
GROUP 4.....	\$ 42.07	29.95
GROUP 5.....	\$ 48.35	29.95
GROUP 6.....	\$ 39.15	29.95
GROUP 7.....	\$ 33.15	29.95
GROUP 8.....	\$ 45.00	29.95
GROUP 9.....	\$ 48.92	29.95

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 feet and over + \$ 2.00
- 180 feet and over + \$ 3.00
- 210 feet and over + \$ 4.00
- 240 feet and over + \$ 5.00
- 270 feet and over + \$ 7.00
- 300 feet and over + \$ 8.00
- 350 feet and over + \$ 9.00
- 400 feet and over + \$10.00

a. PAID HOLIDAYS:

New Year's Day, President's Day, Memorial Day, July Fourth,
Victory Day, Labor Day, Columbus Day, Veterans Day,
Thanksgiving Day, Christmas Day. a: Any employee who works
3 days in the week in which a holiday falls shall be paid
for the holiday.

a. FOOTNOTES:

Hazmat work: \$2.00 per hour additional.
Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks

GROUP 2: Digging machine, Ross Carrier, locomotive, hoist,
elevator, bidwell-type machine, shot & water blasting
machine, paver, spreader, graders, front end loader (3 yds.
and over), vibratory hammer & vacuum truck, roadheaders,
forklifts, economobile type equipment, tunnel boring
machines, concrete pump and on site concrete plants.

GROUP 3: Oilers on cranes.

GROUP 4: Oiler on crawler backhoe.

GROUP 5: Bulldozer, bobcats, skid steer loader, tractor, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile-powered sweeper (3-yd. capacity), 8-ft. sweeper minimum 65 HP).

GROUP 6: Well-point installation crew.

GROUP 7: Utility Engineers and Signal Persons

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator and light plant, gas and electric driven pump and air compressor.

GROUP 9: Boat & tug operator.

ENGI0057-003 12/01/2025

BUILDING CONSTRUCTION

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 50.57	29.95
GROUP 2.....	\$ 48.57	29.95
GROUP 3.....	\$ 48.35	29.95
GROUP 4.....	\$ 44.35	29.95
GROUP 5.....	\$ 41.50	29.95
GROUP 6.....	\$ 47.65	29.95
GROUP 7.....	\$ 47.22	29.95
GROUP 8.....	\$ 44.54	29.95

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 ft. and over: + \$ 2.00
- 180 ft. and over: + \$ 3.00
- 210 ft. and over: + \$ 4.00
- 240 ft. and over: + \$ 5.00
- 270 ft. and over: + \$ 7.00
- 300 ft. and over: + \$ 8.00
- 350 ft. and over: + \$ 9.00
- 400 ft. and over: + \$10.00

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day. a: Any

employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

- a. FOOTNOTE: Hazmat work: \$2.00 per hour additional.
Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks.

GROUP 2: Digging machine, Ross carrier, locomotive, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, front end loader (3 yds. and over), vibratory hammer and vacuum truck

GROUP 3: Telehandler equipment, forklift, concrete pump & on-site concrete plant

GROUP 4: Fireman & oiler on cranes

GROUP 5: Oiler on crawler backhoe

GROUP 6: Bulldozer, skid steer loaders, bobcats, tractor, grader, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile powered sweeper (3 yds. capacity), 8-ft. sweeper (minimum 65 hp)

GROUP 7: Well point installation crew

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator for light plant, gas and electric driven pump & air compressor

ENGI0057-005 12/01/2025

	Rates	Fringes
Power Equipment Operator (highway construction projects; water and sewerline projects which are incidental to highway construction projects; and bridge projects that do not span water)		
GROUP 1.....	\$ 46.45	29.95
GROUP 2.....	\$ 44.45	29.95
GROUP 3.....	\$ 39.15	29.95
GROUP 4.....	\$ 25.75	29.95

GROUP 5.....	\$ 33.15	29.95
GROUP 6.....	\$ 39.73	29.95
GROUP 7.....	\$ 43.43	29.95
GROUP 8.....	\$ 38.70	29.95

a. FOOTNOTE: a. Any employee who works three days in the week in which a holiday falls shall be paid for the holiday.

b. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Cranes, pile drivers, lighters, boom trucks, hoists, derricks

GROUP 2: Digging machines, excavators, locomotives, John Henry's, directional drilling machines, cold planers, reclaimers, pavers, spreaders, graders, front-end loaders (3yds & over), vacuum truck, drill/boring machine operators, vermeer saw, water blaster, hydraulic-demolition robot, Ross Carriers, concrete pump operators, asphalt/material transfer machines, rotating telehandlers, SPMT type equipment

GROUP 3: Wellpoint installation and drill/boring machine assistants

GROUP 4: Utility engineers

GROUP 5: Signal persons

GROUP 6: Oilers on cranes and deckhands

GROUP 7: Combination loader / backhoes, front-end loaders (less than 3 yds.), forklift, bulldozers, scrapers, boats, rollers, skid steer loaders (regardless of attachments), street sweepers, mechanics, welders, operators in materials yards, shops and garages

GROUP 8: Gas and electric drive heaters, concrete mixers, light plants, welding machines, pumps and compressors

IRON0037-001 09/16/2025

	Rates	Fringes
IRONWORKER.....	\$ 43.03	33.53

LABO0271-001 12/03/2023

BUILDING CONSTRUCTION

	Rates	Fringes
LABORER		
GROUP 1.....	\$ 37.00	26.90
GROUP 2.....	\$ 37.00	26.90
GROUP 3.....	\$ 37.00	26.90
GROUP 4.....	\$ 37.00	26.90
GROUP 5.....	\$ 39.00	26.90
LABORERS CLASSIFICATIONS		

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

LABORERS CLASSIFICATIONS

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered

Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

LAB00271-002 11/27/2022

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
LABORER		
COMPRESSED AIR		
Group 1.....	\$ 55.40	24.15
Group 2.....	\$ 52.93	24.15
Group 3.....	\$ 42.45	24.15
FREE AIR		
Group 1.....	\$ 46.00	24.15
Group 2.....	\$ 45.00	24.15
Group 3.....	\$ 42.45	24.15
LABORER		
Group 1.....	\$ 33.05	24.05
Group 2.....	\$ 35.75	24.85
Group 3.....	\$ 36.50	24.85
Group 4.....	\$ 29.00	24.85
Group 5.....	\$ 37.50	24.85
OPEN AIR CAISSON, UNDERPINNING WORK AND BORING CREW		
Bottom Man.....	\$ 41.50	24.15
Top Man & Laborer.....	\$ 35.60	24.15
TEST BORING		
Driller.....	\$ 41.95	24.15
Laborer.....	\$ 41.95	24.15

LABORER CLASSIFICATIONS

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzeperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator; Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER CLASSIFICATIONS

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator;

Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the ""HOT"" zone

PAIN0011-005 06/01/2025

	Rates	Fringes
PAINTER		
Brush and Roller.....	\$ 39.57	26.60
Epoxy, Tanks, Towers, Swing Stage & Structural		
Steel.....	\$ 41.57	26.60

Spray, Sand & Water		
Blasting.....	\$ 42.57	26.60
Taper.....	\$ 38.82	25.80
Wall Coverer.....	\$ 38.57	25.80

PAIN0011-006 06/01/2024

	Rates	Fringes
GLAZIER.....	\$ 41.63	26.15

FOOTNOTES:

SWING STAGE: \$1.00 per hour additional.

PAID HOLIDAYS: Labor Day & Christmas Day.

PAIN0011-011 06/01/2024

	Rates	Fringes
Painter (Bridge Work).....	\$ 57.85	26.40

PAIN0035-008 06/01/2011

	Rates	Fringes
Sign Painter.....	\$ 24.79	13.72

PLAS0040-001 01/01/2025

BUILDING CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 44.75	29.10

FOOTNOTE: Cement Mason: Work on free swinging scaffolds under 3 planks width and which is 20 or more feet above ground and any offset structure: \$.30 per hour additional.

PLAS0040-002 01/01/2025

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 44.75	29.10

PLAS0040-003 01/01/2025

	Rates	Fringes
PLASTERER.....	\$ 45.52	29.43

PLUM0051-002 08/25/2025

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 54.34	34.50

* ROOF0033-004 12/01/2025

	Rates	Fringes
ROOFER.....	\$ 47.49	31.44

SFRI0669-001 04/01/2025

	Rates	Fringes
SPRINKLER FITTER.....	\$ 53.76	33.44

SHEE0017-002 06/01/2025

	Rates	Fringes
Sheet Metal Worker.....	\$ 44.42	41.94

TEAM0251-001 05/01/2025

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
TRUCK DRIVER		
GROUP 1.....	\$ 31.86	34.51+a+b
GROUP 2.....	\$ 32.01	34.51+a+b
GROUP 3.....	\$ 32.06	34.51+a+b
GROUP 4.....	\$ 32.11	34.51+a+b
GROUP 5.....	\$ 32.21	34.51+a+b
GROUP 6.....	\$ 32.61	34.51+a+b
GROUP 7.....	\$ 32.81	34.51+a+b
GROUP 8.....	\$ 32.31	34.51+a+b
GROUP 9.....	\$ 32.56	34.51+a+b
GROUP 10.....	\$ 32.36	34.51+a+b

FOOTNOTES:

A. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, plus Presidents' Day, Columbus Day, Veteran's Day & V-J Day, providing the employee has worked at least one day in the calendar week in which the holiday falls.

B. Employee who has been on the payroll for 1 year or more but less than 5 years and has worked 150 Days during the last year of employment shall receive 1 week's paid vacation; 5 to 10 years - 2 weeks' paid vacation; 10 or more years - 3 week's paid vacation.

C. Employees on the seniority list shall be paid a one hundred dollar (\$100.00) bonus for every four hundred (400) hours worked, up to a maximum of five hundred dollars (\$500.00)

All drivers working on a defined hazard material job site shall be paid a premium of \$2.00 per hour over applicable rate.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Pick-up trucks, station wagons, & panel trucks

GROUP 2: Two-axle on low beds

GROUP 3: Two-axle dump truck

GROUP 4: Three-axle dump truck

GROUP 5: Four- and five-axle equipment

GROUP 6: Low-bed or boom trailer.

GROUP 7: Trailers when used on a double hook up (pulling 2 trailers)

GROUP 8: Special earth-moving equipment, under 35 tons

GROUP 9: Special earth-moving equipment, 35 tons or over

GROUP 10: Tractor trailer

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular

rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union

prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION"

END OF SECTION 00620

SECTION 00700

GENERAL CONDITIONS

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SECTION 00700**GENERAL CONDITIONS****ARTICLE 1: CONTRACT AND CONTRACT DOCUMENTS**

The plans, specifications, and addenda enumerated in the Advertisement For Bids, the Information For Bidders, and the Bid Form as accepted by the Owner, shall be binding upon the parties to this Agreement as if fully set forth therein. Whenever the terms Contract Documents is used, it shall mean and include this Contract, Special Conditions, General Conditions, the Information for Bidders, the Bid Form, Addenda, the Technical Specifications, and the Plans. The Owner shall interpret his/her own requirements. In case of conflict or inconsistency between the provisions of the signed portions of the Contract Documents and those of the specifications, the provisions of the signed portions shall govern.

ARTICLE 2: DEFINITIONS

The following terms as used in this Contract are defined as follows:

- a. **CONTRACTOR:** A person, firm or corporation with whom the Contract is made by the Owner.
- b. **OWNER:** Shall mean, for the purpose of this Contract, the Town of Coventry.
- c. **SUBCONTRACTOR:** A person, firm, or corporation supplying labor and materials, or only labor, for work at the site of the project; for, and under a separate Contract or Agreement with the Owner.
- d. **WORK ON THE PROJECT:** Work to be performed at the location of the project, including the transportation of materials and supplies to or from the site by employees of the CONTRACTOR OR ANY SUBCONTRACTOR.
- e. **ENGINEER:** Shall mean for the purpose of this Contract Crossman Engineering who shall act as the authorized representatives, of the Owner whenever reference is made for such authorization.

ARTICLE 3: QUANTITIES OF ESTIMATE

Whenever the estimate quantities of work to be done and materials to be furnished under this Contract are shown in any of the documents including the Bid Proposal, they are given for use in comparing bids and the right is especially reserved by the Owner to increase or diminish them as may be deemed necessary or desirable by the Owner. Only such quantities of the respective items of work actually performed and accepted will be paid for. Such increases or decreases shall in no way affect this Contract, nor shall any such increases or decreases give cause for claims or liabilities for damages.

ARTICLE 4: CONFLICTING CONDITIONS

Any provisions in any of the Contract Documents which may be in conflict or inconsistent with any of the articles in these General Conditions, shall be void to the extent of such conflicts or inconsistency.

ARTICLE 5: PROVISIONS OF LAW DEEMED INSERTED

Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and the Contract shall be read and enforced as though it were included herein, and if through mistake or otherwise, any such provision is not inserted, or is not correctly inserted, the Contract shall forthwith be physically amended to make such insertion or correction.

ARTICLE 6: NOTICE AND SERVICE THEREOF

The service of any notice, letter or other communication shall be deemed to have been made by one of the contracting parties on the other party to the Contract when such letter, notice or other communication has been delivered to the legal office address of the addressee, by a duly authorized representative of the addressor in person, or when such notice, letter or other communication has been deposited in any regularly maintained mailbox of the United States Post Office, in a properly addressed, postpaid wrapper. The date of such service shall be considered to be the date of such personal delivery or mailing.

The address of the Contractor noted in his/her bid and/or the address of his/her field office on or near the site of work shall be considered his/her legal address for the purposes as set above.

ARTICLE 7: REPRESENTATIONS OF THE CONTRACTOR

The Contractor represents and warrants:

- a. That he/she is financially solvent and that he/she is experienced and competent to perform the type of work required under this Contract and that he/she is able to furnish the plant, materials, supplies, or equipment that may be necessary to perform the work as specified.
- b. That he/she is familiar with all Federal, State and municipal laws, ordinances, orders, and regulations which may in any way affect the project work, or the employment of persons thereon, including but not limited to any special acts relating to the work or to the project of which it is part.
- c. That such temporary and permanent work required by the Contract Documents to be done by him/her will be satisfactorily constructed and can be used for the purpose for which it was intended and that such construction will not injure any person or damage property.

- d. That he/she has carefully examined the plans, specifications, and addenda, if any, and the site of the work and that from his/her own investigations, he/she has satisfied himself/herself as to the nature and location of the work, the character of equipment and other facilities needed for the performance of the work, the general and local conditions, and all other items that may affect the work.
- e. That he/she is aware of the hazards involved in the work and the danger to life and property both evident and inherent and that he/she will conduct the work in a careful and safe manner without injury to persons or property.

ARTICLE 8: CONTRACT SECURITY

The Contractor shall furnish a surety bond in an amount equal to at least one hundred percent (100%) of the Contract price as security for faithful performance of the Contract, and for the payment of all persons performing labor on the project under this Contract and furnishing materials, equipment and all other incidentals in connection with this Contract. The Surety on such a bond shall be a duly authorized surety company satisfactory to the Owner and the cost of the same shall be paid by the Contractor. Prior to the starting of any work, the bonds must be approved by the Owner.

ARTICLE 9: ADDITIONAL OR SUBSTITUTE BOND

If at any time the Owner, for justifiable cause, shall become dissatisfied with any Surety or Sureties holding payment bonds, the Contractor shall, within ten (10) days after notice from the Owner to do so, substitute an acceptable bond or bonds in such form and signed by such other Surety as may be satisfactory to the Owner. The premiums of such bonds shall be paid by the Contractor. No further payments will be deemed due, nor will be made until the new Surety or Sureties shall have furnished such an acceptable bond to the Owner.

ARTICLE 10: CONTRACTOR'S OBLIGATIONS

The Contractor shall perform all work in a good workmanlike manner, and in accordance with the plans and specifications and any supplements thereto, and according to any directions or orders given by the Owner. He/she shall furnish all supplies, materials, facilities, equipment and means necessary or proper to perform and complete the work required by this Contract. He/she shall furnish, erect, maintain, and remove any construction plant or temporary work as may be required. He/she alone shall be responsible for the safety, efficiency and adequacy of his/her plant, appliances and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation. The Contractor shall observe, comply with, and be subject to all terms, conditions, requirements, and limitations of the Contract and specifications and shall do, carry on, and complete the entire work to the satisfaction of the Owner.

The Contractor shall be solely responsible for all the work and shall provide all precautionary measures necessary for preventing injury to persons or damage to property. All injury or damage

of whatever nature resulting from the work or resulting to persons, property, or the work during its progress, from whatever cause, shall be the responsibility of the Contractor.

The Contractor shall hold the Owner and Engineer, or their duly authorized agents, harmless and defend and indemnify them against damages or claims for damages due to injuries to persons or property arising out of the execution of the project work, and for damages to materials furnished for the work, for infringement of inventions, patents, and patent rights used in doing the work, and for any act, omission, or instance of neglect by the Contractor, his/her agents, employees or subcontractors.

The Contractor shall bear all losses resulting to him/her, including but not limited to losses sustained on account of the character, quality, or quantity of any part of the work, or all parts of the work, or because the nature of the conditions in or on the project site are different from what was estimated or indicated, or on account of the weather, elements, or other causes.

ARTICLE 11: SUPERINTENDENCE BY THE CONTRACTOR

The Contractor shall give the work the constant attention necessary to facilitate the progress thereof and shall cooperate with the Owner in every possible way.

At the site of the work, the Contractor shall, at all times, employ a construction superintendent who shall have full authority to act for the Contractor. It is understood that the employment of such representative shall be acceptable to the Owner and shall be such a person as can be continued in the capacity for the duration of the Contract, unless he/she ceases to be on the Contractor's payroll.

ARTICLE 12: CONSTRUCTION SCHEDULE AND PERIODIC ESTIMATES

Within ten (10) days after the date of "Notice to Proceed", the Contractor shall deliver to the Owner an estimated construction schedule in a form satisfactory to the Owner, showing the proposed dates of commencement and completion of each of the various subdivisions of work required under the contract documents and the anticipated amount of each monthly payment that will be come due the Contractor in accordance with the progress schedule. The Contractor shall also furnish to the Owner: 1. a detailed estimate, giving a complete breakdown of the contract price; and 2. periodic itemized estimates of the work done for the purpose of making partial payments thereon.

ARTICLE 13: PAYMENTS BY THE CONTRACTOR

The Contractor shall pay:

- a. For all transportation and utility services not later than the 15th day of each calendar month following that which in services were rendered.
- b. For all materials, tools, and other expendable equipment to the extent of 90 percent of the cost thereof, not later than the 15th day of the calendar month

following that in which such items were delivered to the site of work, and the balance of the cost thereof not later than the 30th day following the completion of that part of the work in or on which material tools, or equipment are incorporated or used.

- c. To each of his/her subcontractors, not later than the 5th day following each payment to the Contractor, the respective amounts allowed the Contractor on account of the work performed by his/her subcontractors to the extent of such subcontractor's interest therein.

ARTICLE 14: USE OF PREMISES AND REMOVAL OF DEBRIS

The Contractor undertakes, at his/her own expense:

- a. To take every precaution against injuries to persons or damage to property.
- b. To store his/her apparatus, materials, equipment, and supplies in an orderly fashion at the site of work as will not unduly interfere with the progress of his/her work or any others.
- c. To place upon the work or any part thereof, only such loads as are consistent with the safety of that portion of the work.
- d. To clean frequently all refuse, scrap, and debris caused by his/her operations, so that the work site is maintained in a neat, workmanlike appearance.
- e. To affect all cutting, fitting, or patching of his/her work required to make the same to conform to the plans and specifications, and except with the consent of the Owner, not to cut or otherwise alter the work of any other contractor.
- f. Before final payment, to remove all surplus materials, false work, temporary structures, including foundations thereof, plants of any description, and debris of any nature resulting from his/her operations, so that the site is left in a neat, orderly and workmanlike condition.

ARTICLE 15: GENERAL GUARANTEE

Neither the final certificate of payment nor any provision in the Contract Documents nor any partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the contract documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty workmanship or materials. The Contractor shall remedy any defect in the work and pay for any damage to other work resulting there from, which shall appear within a period of one year (1) from the date of final acceptance of the work, unless a longer period is specified by the Owner. The Owner will give final notice of observed defects with reasonable promptness.

ARTICLE 16: PROTECTION OF WORK AND PROPERTY - EMERGENCY

- a. The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Contract. The Contractor shall at all times safely guard and protect his/her own work, and that of adjacent property, from damage. The Contractor shall replace or make good any such damage, loss, or injury.
- b. In case of an emergency which threatens loss of injury of property, and/or safety of life, the Contractor will be allowed to act, without previous instructions from the Owner, in a diligent manner. The Contractor shall notify the Owner immediately thereafter. Any claim for compensation by the Contractor due to such extra work shall be promptly submitted to the Owner for approval.
- c. Where the Contractor has not taken action but has notified the Owner of an emergency threatening injury to persons or damage to the work or to any adjoining property, the Contractor shall act as instructed or authorized by the Owner.
- d. The amount of reimbursement claimed by the Contractor on account of any emergency action shall be determined in the manner provided elsewhere in the Contract Documents.

ARTICLE 17: WEATHER CONDITIONS

In the event of temporary suspension of the work, or during inclement weather, or whenever the Owner shall direct, the Contractor shall, and shall cause his/her subcontractors to protect carefully his/her and their work and materials against damage or injury from weather. If, and in the opinion of the Owner, any work or materials are damaged or injured by reason of failure to protect them on the part of the Contractor, or any of his/her subcontractors, or otherwise damaged or injured by the Contractor's negligence, or are found to be defective; such material or work shall be removed and replaced at the expense of the Contractor.

The Contractor shall be responsible to notify the Owner at least twenty-four (24) hours before performing any paving operations. The Owner will verify whether the weather conditions are acceptable or not for the proper handling or finishing of the bituminous mixtures. If, in the opinion of the Owner, the weather conditions will produce a wet surface, then the Owner will contact the Contractor to cancel the paving operations. Bituminous concrete pavement shall not be placed on any wet surface or during rain.

ARTICLE 18: THE OWNER'S AUTHORITY

The Owner shall give all the orders and directions contemplated under this Contract and specifications relative to the execution of the work. The Owner shall determine the amount, quality, acceptability, and fitness of the several kinds of work and materials which are to be paid for under this Contract and shall decide all questions which may arise in relation to said work and construction thereof. The Owner's estimates and decisions shall be final and conclusive,

except as herein otherwise expressly provided. In case any question shall arise between the parties hereto relative to said Contract or specifications, the determination or decision of the Owner shall be a condition precedent to the right of the Contractor to receive any money for payment for work under this Contract affected by such questions. The Owner shall decide the meaning and intent of any portion of the specifications and of any plans or drawings where the same may be found to be obscure or in dispute. Any differences or conflicts in regard to their work which may arise between the Contractor and other contractors performing work for the Owner, shall be adjusted and determined by the Owner.

ARTICLE 19: ALL WORK SUBJECT TO CONTROL BY THE OWNER

- a. In the performance of the work, the Contractor shall abide by all orders, directions, and requirements of the Owner; and shall perform all work to the satisfaction of the Owner; and at such times and places, by such methods, and in such manner and sequence as the Owner may require. The Owner shall determine the amounts, quality, acceptability, and fitness of all parts of the work. The Owner shall interpret the plans, specifications, contract documents, all other documents, and the extra work orders. The Owner shall also decide all other questions in connection with the work. The Contractor shall employ no plant, equipment, materials, methods or men to which the Owner objects and shall remove no plant, materials, or equipment or other facilities from the work site without the Owner's permission. Upon request, the Owner will confirm in writing any oral order, direction, requirement, or determination.
- b. Inspectors shall be authorized to inspect all work done and materials furnished. Such inspection may extend to all parts of the work and to the preparation or manufacture of the materials to be used. The presence or absence of an inspector shall not relieve the Contractor from any requirements of the Contract. In case of any dispute arising between the Contractor and the inspector as to materials furnished or the manner in which the work being executed, the inspector shall have the authority to reject material or suspend work until the question has been decided by the Owner. The inspector shall not be authorized to revoke, alter, enlarge, relax, or release any requirement of these specifications, nor to approve or accept any portion of the work, nor to issue any instructions contrary to the plans and specifications. The inspector shall in no case act as foreman or perform other duties for the Contractor, or interfere with the management of the work by the latter. Any advice which the inspector may give the Contractor shall in no way be construed as binding the Owner, or the Engineer in any way, nor releasing the Contractor from the fulfillment of the terms of the Contract.

ARTICLE 20: THE OWNER'S CONTROL NOT LIMITED

The enumeration in this Contract of particular instances in which the opinion, judgment, discretion, or determination of the Owner shall control or in which the work shall be performed

to his/her satisfaction or subject to his/her approval or inspection, shall not imply that only matters similar to those enumerated shall be governed and performed, but without exception all the work shall be so governed and performed.

ARTICLE 21: RIGHT OF THE OWNER TO TERMINATE THE CONTRACT

In the event that any of the provisions of this Contract are violated by the Contractor, or any of his/her subcontractors, the Owner may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract. If within ten (10) days such violation or delay shall not cease and satisfactory arrangement of correction made, the Contract shall, at the expiration of the ten (10) days, cease and immediately serve notice thereof upon the Surety and the Contractor, and the Surety shall have the power to take over and perform the Contract, provided, however that if the Surety does not commence performing thereof within ten (10) days from the date of mailing to such Surety of Notice of Termination, the Owner may take over the work and prosecute the same to completion by Contract or force account at the expense of the Contractor, and the Contractor and his/her Surety shall be liable to the Owner for any excess cost occasioned the Owner thereby.

ARTICLE 22: INTERPRETATION OF THE PLANS AND SPECIFICATIONS

Except for the Contractor's executed set, all plans and specifications are the property of the Owner. The Owner will furnish the Contractor, without charge, four (4) sets of the plans and specifications. Additional sets will be furnished upon request, at actual cost of reproduction. Such plans and specifications are not to be used on other work and those sets in usable condition shall be returned to the Owner upon request at the completion or cessation of the work or termination of the Contract.

The Contractor shall keep one (1) copy of the plans and specifications at the work site at all times and shall give the Owner and their representative's access thereto. Anything on the plans and not mentioned in the specifications, or anything in the specifications that is not shown on the plans shall have the same force and effect as if mentioned in both. In case of conflict or inconsistency between the plans and the specifications, the specifications shall take precedence. Any discrepancy in the figures and the plans shall be immediately submitted to the Owner for decision and the decision of the Owner shall be final. In case of differences between small and large scale drawings, the large scale drawings shall take precedence.

ARTICLE 23: INSPECTION

The authorized representatives and agents of the Owner shall be permitted to inspect all work materials, payrolls, records of personnel, invoices for materials, and other relevant data and records.

ARTICLE 24: SCHEDULES, REPORTS, RECORDS, AND DATA

The Contractor and each of his/her subcontractors, shall submit to the Owner such schedules of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data as the Owner may request concerning the work performed under this Contract.

Prior to the first partial payment estimate the Contractor shall submit construction progress schedules showing the order in which he proposes to carry-on the work; including dates at which he/she will start the various parts of the work and an estimate date of completion of each part.

ARTICLE 25: RIGHTS-OF-WAY AND SUSPENSION OF WORK

Land and rights-of-way for the purpose of this Contract shall be furnished by the Owner to the extent shown on the plans; the Owner will use due diligence in acquiring said lands and rights-of-way cannot be obtained before work on the project begins, rights-of-way cannot be obtained before work on the project begins, the Contractor shall begin his/her work upon such land or rights-of-way as have been previously acquired by the Owner, and no claims for damages whatsoever will be allowed by reason of the delay in obtaining the remaining land and rights-of-way. Should the Owner be prevented or enjoined from proceeding with the work, or from authorizing its prosecution, either before or after the commencement by reason of litigation, or by reason of its inability to procure the lands or rights-of-way for the said work, the Contractor shall not be entitled to make or assert a claim for damages by reason of the said delay, or to withdraw from the Contract except by consent of the Owner. Time for completion of the work will be extended to such time as the Owner determines will compensate for the time lost by such delay, such determination to be set forth in writing.

ARTICLE 26: SUBCONTRACTORS

The Contractor may utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors.

The Contractor shall not award work to any subcontractor other than those listed in his/her bid, without the prior written approval of the Owner, which approval will not be given until the Contractor submits a written statement concerning the proposed award to the subcontractor, which statement shall contain such information as the Owner may require.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work, to bind the subcontractors to the contract documents insofar as applicable to the subcontract work and to give the Contractor the same power as regards to terminating any subcontract that the Owner may exercise over the Contractor under any provisions of the contract documents.

Nothing contained in this contract shall create any contractual relationship between the Owner and any subcontractor.

ARTICLE 27: ASSIGNMENTS

The Contractor shall not assign the whole or any part of this Contract or any monies due or to become due hereunder without the written consent of the Owner. In case the Contractor assigns all or part of any monies due or to become due under this Contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and to any monies due or to become due to the Contractor shall be subject to prior claims of all

persons, firms, or corporations for services rendered or materials supplied for the performance of the work called for in this Contract.

ARTICLE 28: MUTUAL RESPONSIBILITY OF CONTRACTORS

If, through acts of neglect on the part of the Contractor, any other contractor or subcontractor shall suffer loss or damage to the work, the Contractor agrees to settle with such other contractor or subcontractor by agreement or arbitration if such other contractor or subcontractor shall assert any claim against the Owner on account of any damage alleged to have been sustained, the Owner shall notify the Contractor who shall indemnify and save harmless the Owner against any such claim.

ARTICLE 29: SEPARATE CONTRACTS

The Owner reserves the right to let other contracts in connection with the construction of the contemplated work of the project, or contiguous projects with the Owner. The Contractor, therefore, will afford to any such other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, will properly connect and coordinate his/her work with theirs, and will not commit or permit any act which will interfere with the performance of their work.

The Contractor shall coordinate his/her operations with those of other contractors. Cooperation will be required in the arrangement for storage of materials and in the detailed execution of the work. Failure by the Contractor to keep informed on the progress of the work, or failure to give notice of the lack of progress or defective workmanship by others, shall be construed as acceptance by him of the status of the work as being satisfactory for proper coordination with and performance of his/her own work.

ARTICLE 30: WAGE RATES

There shall be paid each laborer or craftsman of the Contractor or Subcontractor engaged in work on the project under this Contract, regardless of any contractual relationship which may be alleged to exist between the Contractor or any Subcontractor and any such laborers and craftsmen, not less than the minimum hourly wage rates determined by the Department of Labor as prevailing in the construction industry for various classifications of work to be performed. The current prevailing wage rates have been provided in Section 00620 of this document.

The Contractor shall post at appropriate conspicuous points at the site of the project a schedule showing all determined minimum wage rates for the various classes of laborers and mechanics to be engaged in work on the project under this Contract and all deductions, if any, required by law to be made from unpaid wages actually earned by the laborers and mechanics so engaged.

ARTICLE 31: WAGE UNDERPAYMENTS AND ADJUSTMENTS

The Contractor agrees that in the case of underpayment of wages to any worker on the project under this Contract by the Contractor or any of his/her subcontractors, the Owner will withhold

from the Contractor out of payments due to him, an amount sufficient to pay such worker that difference between the wages required to be paid under this contract and the wages actually paid such worker for the total number of hours worked, and that the Owner may disburse such amount so withheld by it for and on account of the Contractor to the employee to whom such amount is due. The Contractor further agrees that the amount withheld is pursuant to this article may be in addition to the percentages to be retained by the Owner pursuant to other provisions of this Contract.

ARTICLE 32: PAYMENT OF EMPLOYEES

The Contractor and each of his/her subcontractors shall pay each of their employees engaged in the work on the project under this Contract in full, in cash, and not less than once a week, less legally required deductions, provided, that when circumstances render payment in cash unfeasible or impracticable, then payment by check may be effected upon consideration that funds are made available in a local bank and checks may be cashed without charge, trade requirements, or inconvenience to the worker.

ARTICLE 33: NON-DISCRIMINATION IN EMPLOYMENT

In connection with the performance of the work under this Contract, the Contractor agrees not to discriminate against employee because of race, religion, color, or national origin. The aforesaid provisions shall include but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation and selection for training, including apprenticeship.

ARTICLE 34: APPRENTICES

Apprentices shall be permitted to work only under a bona fide apprenticeship program registered with a State Apprenticeship Council which is recognized by the Federal Committee on Apprenticeship, United States Department of Labor; or if no such council exists in a State, under a program registered with the Bureau of Apprenticeship, United States Department of Labor.

ARTICLE 35: SAFETY AND HEALTH REGULATIONS

These Contract Documents, and the joint and several phases of construction hereby contemplated, are to be governed, at all times, by the applicable provisions of the Federal law (s) including but not limited to the following:

- a. Williams-Steiger Occupational Safety and Health Act, 1970, Public Law 92-596;
- b. Part 1910 of the Occupational Safety and Health Standards, chapter XVII of Title 29, Code of Federal Regulations.
- c. This project is subject to all of the Safety and Health Regulations (CFR 29, Part 1926 and all subsequent amendments) as promulgated by the U.S. Department of Labor on June 24, 1974. Contractors are urged to become familiar with the requirements of these regulations.

In the event of any inconsistencies between the above laws and regulations and the provisions of these Contract Documents, the laws and regulations shall prevail.

ARTICLE 36: SHOP OR SET DRAWINGS

- a. The Contractor shall submit promptly to the Engineer, before any shop work is commenced, six (6) prints or one (1) reproducible and four (4) prints of shop drawings as prepared in accordance with a schedule predetermined by the Contractor. After examination of such drawings by the Engineer, and the return thereof, if resubmission is required the Contractor shall make such corrections to the drawings as have been indicated and shall furnish the Engineer with eight (8) prints or one (1) reproducible and four (4) prints of corrected copies. Regardless of corrections made in or approval given to such drawings by the Engineer, the Contractor will, nevertheless, be responsible for the accuracy of such drawings and for their conformity to the plans and specifications, unless he/she notifies the Engineer in writing of any deviations at the time he furnishes the drawings.
- b. Shop drawings of all fabricated work shall be submitted to the Engineer for approval and no work shall be fabricated by the Contractor until approval has been given by the Engineer.
- c. The Contractor shall submit all shop and setting drawings on dates sufficiently in advance of requirements to enable the Engineer ample time for reviewing the same, including time for correcting, resubmission and reviewing, if necessary, and no claim for delay will be granted the Contractor by reason of his/her failure in this respect.
- d. All shop drawings submitted must bear the stamp of the Contractor as evidence that the drawings have been checked by him. Any drawings submitted without this stamp of approval will not be considered and will be returned to the Contractor for re-submissions. If the shop drawings show deviations from the requirements of the Contract Documents because of standard shop practice or other reason, the Contractor shall make specific mention of such variation in his/her letter of transmittal to the Engineer, in order that an acceptable, suitable action may be taken for proper adjustment; otherwise the Contractor will not be relieved of the responsibility for executing the work in accordance with the Contract Documents of standard shop practice or other reason, the Contractor shall make specific mention of such variation in his/her letter of transmittal to the Engineer, in order that an acceptable, suitable action may be taken for proper adjustment; otherwise the Contractor will not be relieved of the responsibility for executing the work in accordance with the Contract Documents even though the shop drawings have been approved.
- e. Where shop drawings are submitted by the Contractor that indicate a departure from the Contract which the Engineer deems to be a minor adjustment in his/her

interest and not involving a change in the contract price or extension of time, the Engineer may approve the drawings but the approval will contain in substance, the following:

"The modification shown on the attached drawings is approved on the interest of the Owner to effect an improvement for the project and is ordered with the understanding that it does not involve any change in the contract price or an extension of time, that it is subject generally to all contract stipulations and covenants; and that it is without prejudice to any rights of the Owner under the contract and bond or bonds."

- f. The approval of the shop drawings will be general and shall not relieve the Contractor from the responsibility for adherence to the Contract, nor shall it relieve him of the responsibility for any error which may exist.
- g. The Contractor agrees to hold the Engineer and the Owner harmless and defend them against damages or claims from damages arising out of injury to others or property of third persons which result from errors on shop, working, or setting drawings whether or not they have been approved by the Engineer and/or the Owner.

ARTICLE 37: ADDITIONAL INSTRUCTIONS AND DETAIL DRAWINGS

The Contractor will be furnished additional instructions and detail drawings as necessary to carry out the work included in the Contract. The additional drawings and instructions thus supplied to the Contractor will coordinate with the Contract Documents and will be so prepared that they can be reasonably interpreted as part thereof. The Contractor shall carry out the work in accordance with the additional detail drawings and instructions. The Contractor and the Owner will prepare a schedule fixing the respective dates for the submission of shop drawings, the beginning of manufacture, testing, and installation of materials, supplies, and equipment, and the completion of the various parts of the work; each schedule to be subject to change from time to time in accordance with the progress of the work.

ARTICLE 38: MATERIALS, SERVICES AND FACILITIES

It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever, necessary to protect, execute, complete, and deliver the work within the specified time.

If approved by the Owner, any work necessary to be performed after regular hours; on Saturdays, Sundays or legal holidays; shall be performed by the Contractor without additional expense to the Owner.

ARTICLE 39: CONTRACTOR'S TITLE TO MATERIALS

No material, supplies, or equipment for the work shall be purchased by the Contractor or any subcontractor, subject to any chattel mortgage or under a conditional sale or other agreement by which an interest therein or in any part thereof is retained by the seller or supplier. The Contractor warrants good title to all material, supplies and equipment installed or incorporated in the work and further warrants upon completion of all work, to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him, to the Owner free from any claims, liens or charges, or encumbrances and further agrees that neither he nor any person, firm or corporation furnishing any material or labor for any work covered by this Contract shall have the right to a lien upon the premises or any improvement or appurtenance thereon.

ARTICLE 40: INSPECTION AND TESTING OF MATERIALS

All materials and equipment used in the construction of the project shall be new and of current manufacture. Inspection and Testing will be done in accordance with accepted standards, as directed by the Owner and as required by the Contract Documents and Specifications.

All materials and workmanship shall be subject to inspection, examination, and testing by the Owner or its representative at any and all times during manufacture and/or construction and at any and all places where such manufacture and or construction is carried on, to establish conformance with these specifications and suitability for uses intended. Without additional charge, the Contractor shall furnish promptly all reasonable facilities, labor, and materials necessary to make tests so required safe and convenient he/she shall also furnish and mill, factory, or other such tests based on the standards and Tentative Standards of the American Society for Testing Materials (A.S.T.M.) as required by the Owner.

ARTICLE 41: "OR APPROVED EQUAL CLAUSE"

- a. Whenever a material or article required is specified or shown on the plans by using the name of the proprietary product or of a particular manufacturer or vendor, any material or article which will perform adequately the duties imposed by the general design may be considered equal and satisfactory providing the material or article so proposed is of equal substance and function in the Owner's opinion. It shall not be purchased or installed without the Owner's written approval.
- b. If two (2) or more brands, makes of material, devices or equipment are shown or specified, each should be regarded as the approved equal of the other. Any other brand, make or material, device or equipment, which, in the opinion of the Owner or his/her authorized agent, is the recognized approval equal of that specified, considering quality, workmanship, and economy of operation, and is suitable for the purpose intended, may be accepted.

- c. If any other material or article is substituted for items shown or specified, the project must result in a savings in the contract price and the Contractor shall submit evidence that the substitute product is equal. Upon approval of the substitute project, the Owner will issue a deductive change order.
- d. If an equipment manufacturer must have a specified period of experience with his/her project, equipment which does not meet with the specified experience period can be considered if the equipment supplier or manufacturer is willing to provide a bond or cash deposit for the duration of the specified time period which will guarantee replacement of that equipment in the event of failure.

ARTICLE 42: PATENTS

- a. The Contractor shall hold and save the Owner and Engineer harmless from liability of any nature or kind, including costs and expenses for, or on account of, any patented or unpatented invention, process, article, or appliance manufactured or used in the Contract, including its use by the Owner.
- b. License and/or royalty fees for the use of a process which is authorized by the Owner must be reasonable, and paid to the holder of the patent, or his/her authorized agent, directly by the Contractor.
- c. If the Contractor uses any design, device or material covered by letters, patent, or copyright he/she shall provide for such use by suitable agreement with the Owner of such patent or copyrighted design, device, or material.
- d. It is mutually agreed and understood that, without exception, the contract prices shall include all royalties, license fees, or costs arising out of the use of such process, design, device, or materials, in any way involved in the work. The Contractor and/or his/her Surety shall indemnify and save the Engineer and the Owner harmless from all claims for infringement by reason of use of such patented material, device or design, in connection with the work under this Contract, and shall indemnify the Engineer and the Owner for any cost, expense, or damage which it may be obligated to pay for reason of such infringement at any time during the prosecution of the work.

ARTICLE 43: SURVEYS, PERMITS, AND REGULATIONS

The Contractor shall procure and pay for all permits, licenses, and approvals necessary for the execution of the Contract work.

The Contractor shall comply with all laws, regulations, ordinances, orders, and rules relating to the performance of the work, the protection of the adjacent property, and the maintenance of passageways, guard fences, and other protective facilities.

ARTICLE 44: GENERAL INSURANCES

The Contractor shall be responsible for maintaining insurance coverage in force for the life of this Contract of the kind and adequate amounts to secure all of his/her obligations under this Contract and with insurance companies licensed to write such insurance in the State of Rhode Island. The kinds and amounts of such insurance carried shall not be less than the kinds and amounts of insurance coverage designated herein, and the Contractor agrees that the stipulation herein of the kinds and minimum amounts of coverage or the acceptance by the Owner of certificates indicating the kinds and amounts of insurance coverage. All policies issued shall indemnify and save harmless the Owner, the Engineer, and their agents or representatives from any and all claims for damages arising out of the Contract, to either persons or property.

ARTICLE 45: WORKMEN'S COMPENSATION INSURANCE

The Contractor shall provide adequate statutory Workmen's Compensation Insurance for all labor employed on the project who may come within the protection of such laws and shall provide, where practical, Employer's General Liability Insurance for the benefit of his/her employees not protected by such compensation laws and proof of such insurance's satisfactory to the Owner shall be given. Said insurance shall be written with such company as may be acceptable to the Owner and the policy shall be submitted to the Owner for examination. This policy shall be endorsed to provide All States Coverage, Voluntary Compensation Coverage, and Occupational Disease Coverage. Satisfactory certificates of said insurance shall be filed with the Owner in sextuplicate (6) prior to the commencement of operations by the Contractor. The Contractor will be responsible for the provision of proper and adequate Workmen's Compensation for all his/her subcontract operations and in the event that the Contractor's policy does not cover each and every subcontractor, certificates of insurance issued on policies by companies that may be acceptable to the Owner covering each and every subcontractor shall be filed with the Owner prior to the commencement of such subcontract operation.

In the event that the form of any policy or certificate of the amount of the insurance of the companies writing the same are not satisfactory to the Owner, the Contractor shall secure other policies or certificates in form and amount and with such companies that are satisfactory to the Owner. The Contractor shall not cause policies to be cancelled or permit them to lapse and all insurance policies shall include a clause to the effect that the policy shall not be subject to cancellation or a reduction in the required limits of liability amounts of insurance until notice has been sent by registered mail to the Owner, stating when, not less than ten (10) days thereafter, such cancellation or reduction shall be effective. All certificates of insurance shall contain true transcripts from the policy, authenticated by the proper officer of the insurer evidencing in particular, those insured, the extent of the insurance, the location and operations to which the insurance applies the expiration date, and the above-mentioned notice of cancellation clause. All policies and certificates of insurance shall be delivered to the Owner by the successful bidder prior to preparation of the construction contract. All insurance specified in this Contract shall be provided by the Contractor, at no additional expense to the Owner.

ARTICLE 46: CONTRACTOR'S COMPREHENSIVE PUBLIC LIABILITY AND PROPERTY DAMAGE LIABILITY INSURANCE

The Contractor shall carry Comprehensive General Liability Insurance with broad form of Contractual General Liability Endorsement attached, providing for a limit of not less than One Hundred Thousand Dollars (\$100,000) for all damages arising out of bodily injuries to or death of one person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or the death of two (2) or more persons in any one (1) accident; and Contractor's Comprehensive Property Damage Liability Insurance providing for a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property in any one accident, and subject to a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property during the policy period.

The insurance shall be placed with such company as may be acceptable to the Owner. The policy shall be submitted to the Owner. The policy shall be submitted to the Owner for examination and satisfactory certification of said insurance shall be filed with the Owner in sextuplet (6). The Contractor will be charged with the responsibility for similar Public Liability protection for all his/her subcontract operations and in the event that the Contractor's policy does not cover each and every subcontractor, certificates of insurance issued or policies by companies that may be acceptable to the Owner covering each and every subcontractor shall be filed with the Owner covering each and every subcontractor and shall be filed with the Owner prior to the commencement of such subcontract operation.

ARTICLE 47: OWNER'S PROTECTIVE LIABILITY AND PROPERTY DAMAGE INSURANCE

The Contractor shall provide the Owner an insurance policy written in the name of the Owner, its employees, servants, and agents, and extended to include the interests of Crossman Engineering, its employees, and agents; to protect the Owner and the Engineer from any liability which might be incurred against them as a result of any operations of the Contractor or his/her subcontractors or their employees. Such insurance shall provide for a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or the death of one (1) person, and subject to that limit for each person, a total limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or the death of two (2) or more persons in any one accident; and a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property in any one accident, and subject to a limit of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property during the policy period.

ARTICLE 48: COMPREHENSIVE AUTOMOBILE LIABILITY AND PROPERTY DAMAGE INSURANCE

The Contractor shall carry Comprehensive Automobile Liability Insurance covering all owned vehicles, hired vehicles, or non-owned vehicles in the amount of not less than One Million

Dollars (\$1,000,000) for all damages arising out of bodily injuries to or the death of any one (1) person; and subject to that limit for each person a total of not less than One Million Dollars (\$1,000,000) for all damages arising out of bodily injuries to or the death of two (2) or more persons in any one accident; and Property Damage coverage in the amount of not less than One Million Dollars (\$1,000,000) for all damages arising out of injury to or destruction of property.

ARTICLE 49: INSURANCE COVERING SPECIAL HAZARDS

Special hazards shall be covered by rider or riders to the Public Liability Insurance and Property Damage Insurance policy or policies herein above required to be furnished by the Contractor, or by separate policies of insurance as follows:

- a. Property Damage Liability arising out of the collapse of, or structural injury to any building or structure due to excavation (including borrowing, filling, or backfilling in connection therewith), tunneling, pile driving, cofferdam work, or caisson work, or to moving, shoring, underpinning, razing, or demolition of any building or structure or removal of any rebuilding of any structural support thereof.
- b. Property Damage Liability for injury to or destruction of property arising, directly or indirectly, from blasting or explosions, however caused, other than explosions of air or steam vessels, piping under pressure, prime movers, machinery, or power transmitting equipment.
- c. Property Damage Liability for injury or destruction of wires, conduits, pipes, mains, sewers, or other similar property or any apparatus in connection therewith, below the surface of the ground, arising from and during the use of mechanical equipment for the purpose of excavating or drilling within the project limits; injury to or destruction of property at any time resulting there from.
- d. The Contractor shall require similar insurance in such amounts to be taken out and maintained by each subcontractor.

ARTICLE 50: BUILDERS RISK INSURANCE

During the progress of work the Contractor shall effect and maintain BUILDER'S RISK INSURANCE ON COMPLETED VALUE FORM against loss by fire, theft, flood, earthquake, lightening, windstorm, hurricane, cyclone, tornado, hail, explosion, riot, riot attending strike, aircraft, smoke and vehicle damage, vandalism and malicious mischief upon all work in place and all material stored at the building site, whether or not covered by partial payments made by the Owner. This insurance shall be in an amount equal to one hundred percent (100%) of the insurable portion of the project and shall be for the benefit of the Owner, the Contractor and each Subcontractor as their interest may respectively appear. This insurance shall be placed with such company or companies as may be acceptable to the Owner. The Contractor shall furnish the Owner with certified copies of the policy of same insurance in sextuplicate (6) copies immediately before preparation of the construction contracts.

If there are any existing adjacent or adjoining structures presently used by the Owner, the risk of the existing adjacent or adjoining structures will be by the Owner.

Policies shall be executed with the construction contract; the policies shall be issued for the protection of the Contractor and the Owner and such Subcontractors as their interest may appear.

ARTICLE 51: COMPENSATION TO BE PAID TO THE CONTRACTOR

- a. The Owner will pay and the Contractor shall receive as full compensation for everything furnished and done by the Contractor under this Contract, the unit prices and lump sum prices set opposite the respective items in the accepted bid form herein contained, and payment for approved extra work. The cost of all work required not specifically included in any items herein mentioned, and also for all loss or damage arising out of the nature of the work aforesaid or from the action of the elements, or from any unforeseen obstruction or difficulty encountered in the prosecution of the work and for all risks of every description connected with the work, and for all expenses incurred by or in consequence of the suspension or discontinuance of the work as herein specified, and for assuming all duties, and liabilities, herein required, and for well and faithfully completing the work, and the whole thereof, as herein provided, shall be the responsibility of the Contractor.
- b. The amount of the Contract (accepted bid prices) listed in the bid is based on the estimated quantities and the unit and/or lump sum prices as set forth in the bid. It is understood and agreed that the Contractor will accept as payment the actual measured quantities at the unit and/or lump sum price as set forth in the accepted bid.
- c. The estimated quantities given in the bid proposal for the various items of work are given for the purpose of comparing the bids offered for the work under this Contract and if it is found in the performance of the Contract work that any or all of the said estimated quantities are not even approximately correct the Contractor shall have no claim for anticipated profits, or for loss of profit, or for increase in prices as listed in the accepted bid because of the difference between the quantities of the various items of work actually done and the estimated quantities stated in the accepted bid.
- d. No payment or compensation will be made to the Contractor for damages because of hindrance or delay from any cause in the progress of the work, whether such hindrances or delays be avoidable or unavoidable.

ARTICLE 52: PAYMENTS TO THE CONTRACTOR

- a. At least ten (10) days before each progress payment falls due (but not more than once a month), the Contractor shall submit to the Owner a partial payment

estimate filled out and signed by the Owner covering the work performed during the period covered by the partial payment estimate and supported by such data as the Owner may reasonably require. If payment is requested with the Owner's permission on the basis of materials and equipment not incorporated in the work but delivered and suitably stored at or near the site, in accordance with the manufacturers' recommendation and as required by the Owner, the partial payment estimate shall also be accompanied by such supporting data satisfactory to the Owner as will establish the Owner's title to the material and equipment and protect his/her interest therein, including applicable insurance. The Engineer will within ten (10) days after receipt of each partial payment estimate either indicate in writing his/her approval or return the partial payment estimate to the Owner indicating in writing his/her reasons for refusing to approve payment.

- b. The request for payment may also include with the Owner's permission an allowance for the cost of such major materials and equipment which are suitably stored either at or near the site in accordance with the manufacturer's recommendation and as required by the Owner.
- c. Prior to substantial completion, the Owner, with the approval and concurrence of the Contractor, may use any completed or substantially completed portions of the work. Such use shall not constitute an acceptance of such portions of the work.
- d. The Owner shall have the right to enter the premises for the purpose of doing work not covered by the CONTRACT DOCUMENTS. This provision shall not be construed as relieving the Owner of the sole responsibility for the care and protection of the work or the restoration of any damaged work except such as may be caused by agents or employees of the Owner.
- e. The Contractor shall indemnify and save the Owner or Owner's representative harmless from all claims growing out of the lawful demands of SUBCONTRACTORS, laborers, workmen, mechanics, material men, and furnishers of machinery and parts thereof, equipment, tolls and all supplies incurred in the furtherance of the performance of the work. The Owner shall at the Owner's request furnish satisfactory evidence that all obligations of the nature designated above have been paid, discharged or waived.
- f. The Owner will hold a five percent (5%) retainage on the entire contract amount until the Owner has approved and accepted the final construction improvements.

ARTICLE 53: TIME FOR COMPLETION AND LIQUIDATED DAMAGES

- a. It is hereby understood and mutually agreed by and between the Contractor and the Owner that the date of beginning and the time of completion of the work as specified in this Contract are ESSENTIAL CONDITIONS of this Contract, and it is further mutually understood and agreed that the work embraced in this Contract shall be commenced on a date to be specified in the Notice to Proceed.

- b. The Contractor agrees that said work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will ensure full completion thereof within the time specified, and further that time of completion as agreed upon is reasonable, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.
- c. If the said Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as a partial consideration for the awarding of this Contract, to pay to the Owner the amount specified in the Contract, not as a penalty, but as liquidated damages for such breach of Contract as hereinafter set forth for each and every calendar day that the Contractor shall be in default after the time stipulated in the Contract for completing the work.
- d. The said amount is fixed and agreed upon by and between the Owner and the Contractor, and said amount is agreed to be the amount of damages the Owner would sustain in such an event as the above-mentioned, and said amount shall be retained from time to time by the Owner from current periodical payments.
- e. It is further agreed that time is of the essence in each and every portion of the Contract and Specifications; where in a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence in this Contract. Provided that the Contractor shall not be charged when the delay in completion of the work is due to:
 - 1. Any preference, priority, or allocation order duly issued by the government, subsequent to the date of the Contract.
 - 2. Unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to acts of God, or of the public enemy, act of the Owner, acts of another contractor, fires, floods, epidemics, strikes, and unusually severe weather.
 - 3. Any delays of subcontractors or suppliers approved by the Owner. Provided further that the Contractor shall within ten (10) days from the beginning of the delay, unless the Owner shall grant a further period of time prior to the date of final settlement of the Contract, notify the Owner in writing of the causes of the delay and notify the Contractor within a reasonable time of its decision in the matter.
- f. The Completion Date, as certified by the Engineer when the construction of the project (and all parts thereof) is fully completed in accordance with the Contract Documents, consisting of the satisfactory fulfillment, in the opinion of the Engineer, of all punch list items, correction of any defective work, start-

up/training, testing of equipment, submission and approval of Operations and Maintenance Manuals and record drawings. Should the Completion not be achieved by the Contractor within the Contract Time, or extension of time granted by the Owner, then the provisions of liquidated damages shall apply.

ARTICLE 54: CORRECTION OF WORK

All work, materials, all processes of manufacture, and all methods of construction shall be at all times and places subject to the inspection of the Owner, who shall be the final judge of the quality and suitability of the work performed under this Contract. Should any of the work performed fail to meet with his/her approval, it shall be forthwith constructed, made good, replaced, and/or corrected as the case may be, by the Contractor, at his/her own expense. Rejected material shall be immediately removed from the site. If, in the opinion of the Owner, it is undesirable to replace, reconstruct, or correct any of the work not performed in accordance with the Contract Documents, the compensation to be paid to the Contractor shall be reduced by such amounts as in the judgment of the Owner shall be equitable.

ARTICLE 55: CHANGES IN THE WORK

No changes in the work covered by the approved Contract Documents shall be made without having prior written approval of the Owner. Charges or credits for the work covered by the approved changes shall be determined in accordance with Section 00830 Change Orders.

ARTICLE 56: EXTRAS

- a. The Owner may, at any time, without notice of the sureties, by written order designated or indicated to be a Change Order, make any change in the work within the general scope of this Contract, including but not limited to changes:
 1. In the Specifications (including drawings and designs);
 2. In the method or manner of performance of the work;
 3. In the Owner-furnished facilities, equipments, materials, services, or site;
or
 4. Directing acceleration in the performance of the work.
- b. Any other written order or an oral order (which terms as used in this paragraph (b) shall include direction, instruction, interpretation or determination) from the Owner, which causes any such change, shall be treated as a change order under this clause, provided that the Contractor gives the Owner written notice stating the date, circumstances and source of the order and that the Contractor regards the order as a Change Order.

- c. Except as herein provided, no order, statement, or conduct of the Owner shall be treated as a change under this clause or entitle the Contractor to an equitable adjustment hereunder.
- d. If any change, by change order, causes an increase or a decrease in the Contractor's cost of, or the time required for, the performance of any part of the work under this Contract, an equitable adjustment shall be made and the Contract modified in writing accordingly: Provided, however, that no claim for any change order (b) above shall be allowed for any costs incurred more than twenty (20) days before the Contractor gives written notice as therein required: and, provided, further, that in case of defective specifications for which the Owner is responsible, the equitable adjustment shall include only increased cost reasonably incurred by the Contractor in attempting to comply with such defective specifications.
- e. If the Contractor intends to assert a claim for an equitable adjustment under this clause, he/she must, within thirty (30) days after receipt of a written change order under (a) above or the furnishing of a written notice under (b) above, submit to the Owner a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the Owner. The statement of claim hereunder may be included in the notice under (b) above, submit to the Owner a written statement setting forth the general nature and monetary extent of such claim, unless this period is extended by the Owner. The statement of claim hereunder may be included in the notice under (b) above.
- f. No claim by the Contractor for an equitable adjustment hereunder for any amount shall be allowed unless agreed to by Change Order prior to the work being done.

ARTICLE 57: CLAIMS FOR EXTRA COST

No claims for extra work or cost will be allowed unless the same were done in pursuance of a written order of the Owner as aforesaid, and the claim presented with the first estimate after the changed or extra work is done. When the work is performed under terms specified elsewhere in the Contract, the Contractor shall furnish satisfactory bills, payrolls, and vouchers covering all items of cost and upon the Owner's request, give him/her full access to the accounts relating thereto.

ARTICLE 58: FINAL ACCEPTANCE OF THE FINAL PAYMENT CONSTITUTES RELEASE

- a. **SUBSTANTIAL COMPLETION** - Upon written notice from the Contractor of presumptive substantial completion of the project, the Engineer will make an inspection. If all work provided for in the Contract is found completed to his satisfaction, that inspection shall constitute substantial completion inspection. The Engineer shall make a written acceptance of the physical work, which shall relieve the Contractor from further responsibility of the physical work except for the maintenance of seeded surfaces required prior to final acceptance.

- b. FINAL COMPLETION - Upon written notice from the Contractor of presumptive final completion of the project, the Engineer will make an inspection. If all work provided for in the Contract, including final seeded surfaces, is found completed to his satisfaction, that inspection shall constitute final inspection. The Engineer shall make a written acceptance of the physical work, which shall relieve the Contractor from further responsibility only with respect to the physical work, not withstanding any other warranties remaining in effect under the terms of the Contract. Subsequent to the final acceptance of the physical work and upon compliance with the terms of the Contract relating to submission of required reports or other documents, the Engineer will recommend final acceptance of the Contract to the Owner.

- c. The acceptance of the Final Payment by the Contractor shall be and shall operate as a release to the Owner for all claims and all liability to the Contractor for all items done or furnished in connection with this work and for every act or neglect of the Owner and others relating to or arising out of this Work. No payment, however, final or otherwise, shall operate as a release of the Contractor or his/her Surety from any obligations under this Contract or the performance and payment bond.

END OF SECTION 00700

SECTION 00800

SUPPLEMENTAL CONDITIONS

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SECTION 00800**SUPPLEMENTAL CONDITIONS****ARTICLE 1: SCOPE OF WORK**

The Contractor shall furnish all labor, materials, supplies, equipment, and other facilities, necessary to complete the work contemplated by this Contract as required by and in strict accordance with the plans, specifications, and addenda and/or required by and in strict accordance with such changes as ordered and approved pursuant to this Contract and the Contractor shall perform all other obligations imposed on him/her by this Contract. The Contractor shall be responsible for materials delivered and work performed until completion and final acceptance. Upon completion of the Contract, the work shall be delivered complete and undamaged.

ARTICLE 2: PROVISION FOR FLOW OF PRESENT DRAINAGE

The Contractor shall provide provision for the flow in all sewers, drains, and watercourses that are met or altered during the construction and all connections shall be restored without extra charge. All offensive matter shall be removed immediately with such precautions as may be directed. If required, the Contractor shall install temporary bypass connections for sewer, drains, and water facilities to provide uninterrupted or continuous service during the work of construction.

ARTICLE 3: WORK TO BE ACCOMPLISHED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS

The work, during its progress and at its completion, shall conform to the lines and grades shown on the drawings and to the directions given by the Owner from time to time, subject to such modifications or additions as he/she shall determine to be necessary during the execution of the work; and in no case will any work be paid in excess of such requirements. The work shall also be accomplished in accordance with the data in these specifications.

ARTICLE 4: CONTRACTOR TO CHECK DIMENSIONS AND SCHEDULES

The Contractor will be required to check all dimensions and quantities shown on the drawings or schedules given to him/her by the Owner, and shall notify the Owner of all errors therein which he/she may discover by examining and checking the same. The Contractor shall not take advantage of any error or omissions in these specifications, drawings, or schedules. The Owner will furnish all instructions should such error or omissions be discovered, and the Contractor shall carry out such instructions as if originally specified.

ARTICLE 5: PROTECTION OF LANDSCAPING

The Contractor shall take special care to preserve and protect from injury all trees and other permanent structures (e.g., retaining walls, dry stone walls) located along the lines of construction, and no such trees shall be cut down, trimmed, or otherwise cut without permission from the Owner.

ARTICLE 6: REMOVAL OF WATER AND PROTECTION FROM FLOODING

The Contractor shall construct and maintain all pumps, drains, well points or any other facilities for the control, collection, and disposal of groundwater or surface and subsurface water encountered in the performance of the Contract work and provide all pumps, piping and ditching for the removal of water from the trenches and excavations so that all trenches and excavations may be kept free from water at all times and so work under this Contract may be performed in the dry. Any damage to existing work or to the Contract work resulting from the failure of the Contractor's dewatering operations, shall be repaired by the Contractor, as directed by the Owner, at no additional expense to the Owner. The Contractor's dewatering and pumping operations shall be carried out in such a manner that no loss of ground will result from these operations. Precautions shall be taken to protect new and existing work from flooding or damage during storms or other causes. There will be no separate payment for dewatering or water removal operations.

ARTICLE 7: HURRICANE PROTECTION

Should hurricane warnings be issued, the Contractor shall take every precaution to minimize danger to person, to the work and to adjacent property. These precautions shall include closing all openings, removing all loose materials, tools and equipment from exposed locations, and removing all scaffolding and other temporary work.

ARTICLE 8: CONFORMANCE WITH DIRECTIONS

The Owner may make alterations to the line, grade, plan, form, dimension, or materials of the work, or any part thereof, either before or after the commencement of construction. Should such alterations diminish the quality included in any item of work to be done and paid for at a unit price, the Contractor shall have no claim for damages or for anticipated profits on the work that thus may be dispensed with. If they increase the quantity included in any such item, such increase shall be paid for at the stipulated prices.

ARTICLE 9: PROTECTION AGAINST HIGH WATER AND STORM

The Contractor shall take precautions to prevent damage to work or equipment by high water or by storms. The Owner may prohibit the carrying out of work at any time when in his/her judgement high waters or storm conditions are unfavorable or unsuitable, or at any time regardless of the weather when proper precautions are not being taken to safeguard previously constructed work or work in progress.

In case of damage caused by failure of the Contractor to take adequate precautions, the Contractor shall repair or replace equipment damaged and shall make such repairs or rebuild parts of the damaged work as the Owner may require, at no additional cost to the Owner.

ARTICLE 10: SEQUENCE OF THE WORK

The Contractor shall be required to prosecute his/her work in accordance with a schedule prepared by him/her in advance and in accordance with additional requirements specified herein and approved by the Owner. This scheduling shall state the methods and shall forecast the times of doing each portion of the work. The Contractor shall have schedule approved by the Owner before beginning any portion of the work.

ARTICLE 11: COMPETENT HELP TO BE EMPLOYED

The Contractor shall employ experienced foremen, craftsmen and other workmen competent in the work in which they are to be engaged.

ARTICLE 12: STREETS AND SIDEWALKS TO BE KEPT OPEN

The Contractor shall at all times keep the streets and highways in which he/she may be working open for pedestrian and vehicular traffic, unless approved in writing by the Owner. If in the opinion of the Owner, the interest of abutters and the public requires it, the Contractor shall bridge or construct planking across trenches at street crossings and roads or private ways. The Contractor shall conduct his/her work in such a manner as the Owner may direct from time to time. No sidewalk shall be obstructed where it is possible to avoid it.

The Contractor shall provide all necessary fire crossings at principal intersections or ways usually traveled by fire apparatus with provisions for the apparatus so it can travel along the line of the pipe installations.

ARTICLE 13: LIGHTS, BARRIER, WATCHMEN, AND INDEMNITY

The Contractor shall erect and maintain such barriers, lighting, warning lights, danger warning signals, and signs that will prevent accidents during the construction work and protect the work and insure the safety of personnel and the public at all times and places; the Contractor shall indemnify and protect the Owner and Engineer in every respect from injury or damage whatsoever caused by any act of neglect by the Contractor or his/her subcontractors, or their servants or agents.

In addition to the above, when and as necessary, or when required by the Owner, the Contractor shall post signs and employ watchmen or flagmen for the direction of traffic at the site and for excluding at all times unauthorized persons from the work site, for which the Contractor shall be paid no additional compensation.

The Contractor shall be responsible for excluding at all times from the land within the easement areas, all persons not directly connected with the work.

All work occurring on state and local streets shall be clearly identified, protected and the public's safety ensured by erection of signs, barriers and all other provisions as outlined in Part 6, Temporary Traffic Control, of the Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways; issued by the U.S. Department of Transportation, Federal Highway Administration, 11th Edition, dated December 2023, including all revisions.

ARTICLE 14: NIGHT WORK

Night work, or work on Saturdays, Sundays, or legal holidays will not be permitted except in case of an emergency, and only upon the approval of the Owner, or as required by the Contract Documents. Should it be necessary for the Owner to operate an organization for continuous night work or for emergency night work; the lighting, safety and other facilities which are deemed necessary shall be provided by the Contractor. Compensation for this work shall be considered as having been included in the prices stipulated for the appropriate items of work as listed in the Bid, and no extra compensation will be paid by the Owner. Night work required per the Contract Documents shall be fully executed in accordance with the Contract Documents at no additional cost to the Owner.

If the Contractor must work beyond the regular work week in order to complete the project within the contract time, all expenses of the Engineer and his/her personnel required for inspection or observation will be deducted monthly from any sums due or which will become due to the Contractor.

ARTICLE 15: WORK IN COLD WEATHER

The Owner may determine when conditions are unfavorable for work and may order the work, or any portion thereof, suspended whenever, in his/her opinion, the conditions are not such as will insure first class work.

ARTICLE 16: RESERVED MATERIALS

Materials found on the work site suitable for any special use, shall be preserved for that purpose. Where permitted, the Contractor may use in the various parts of the work, without charge, any materials taken from the excavation.

ARTICLE 17: DISPOSAL OF MATERIALS

The materials used in the construction of the work, shall be deposited in such manner so they will not endanger persons or the work, and so that free access may be had at any time to all hydrants and gates in the vicinity of the work. The materials shall be kept trimmed up so that as little inconvenience as possible to the public or adjoining tenants is caused.

ARTICLE 18: INTERFERENCE WITH EXISTING STRUCTURES

The Contractor shall be responsible for all broken mains or utilities encountered during the progress of the work and shall repair and be responsible for correcting all damages to existing utilities and structures at no additional cost to the Owner. The Contractor shall contact the proper utility or authority to correct or make any changes due to utilities or other obstructions during the work of construction, but the entire responsibility and expense shall be with the Contractor.

All damaged items of work or items required to be removed and replaced due to construction shall be replaced or repaired by the Contractor to the complete satisfaction of the property Owner and/or the Owner, and at no additional expense to the Owner.

ARTICLE 19: TURF, TOPSOIL, AND OTHER REPLACED ITEMS

Where the system is constructed through cultivated or sodded lands, the Contractor shall save the turf and topsoil leaving the land as nearly as possible in its original condition. Trees, fences, walls, walks, and such other items must not be damaged. Any damaged items shall be replaced or repaired by the Contractor at no additional expense to the Owner.

ARTICLE 20: MATERIALS

All material furnished and used in the completed work shall be new; of best quality, workmanship, and design; and recognized as standard in the work to be done under this Contract. Whenever a specification number or reference is given the subsequent amendments (if any) shall be included. The standards set forth in the selection of materials and supplies are intended to conform with those standards adopted by the Owner. Preference in manufacture shall be given to adopted standards and the Contractor shall further familiarize himself with the requirements of the Owner when the occasion or choice of materials so demands.

ARTICLE 21: DEFECTIVE MATERIALS AND TESTING

No materials shall be laid or used which are known, or may be found to be in any way defective. Any materials found to be defective at the site of work or upon installation shall be replaced by the Contractor at his/her own expense. Notice shall be given to the Owner of any defective or imperfect material. Defective or unfit material found to have been laid, shall be removed or replaced by the Contractor with sound and unobjectionable material without additional cost to the Owner.

All materials furnished by the Contractor are subject to thorough inspection and tests by the Owner.

The Contractor shall submit samples, as required by the Owner, of the various materials used on the Contract work for testing purposes.

All ordering lists shall be submitted by the Contractor to the Owner for approval and shall be approved before the ordering of the materials.

ARTICLE 22: SANITARY REGULATIONS

Adequate sanitary conveniences for use of workman on the premises, properly secluded from public observance, shall be provided and maintained by the Contractor, in accordance with local and State health requirements, and in such a manner and at such points as shall be approved by these authorities, and their use shall be strictly enforced. Sanitary waste shall be treated and disposed of in a manner satisfactory to the Owner and the local and State authorities. Under no circumstances shall sanitary wastes be allowed to flow on the surface of the ground.

The Contractor shall rigorously prohibit the committing of nuisances upon the lanes or rights-of-way of the Owner, about the work, or upon adjacent public or private property.

The cost of sanitary conveniences and maintaining the same will be considered to be included in the prices stipulated for the appropriate items of work as listed in the Bid, and not as a separate payment.

ARTICLE 23: SPIRITUOUS LIQUORS

The Contractor shall neither permit nor suffer the introduction of spirituous liquors upon the work embraced in this Contract, nor the use of the same.

ARTICLE 24: FINISHING AND CLEANING UP

In completing his/her operations, the Contractor shall immediately remove all surplus material, tools, and other property belonging to him/her, leaving the entire street or surroundings free and clean and in good order, at no additional expense to the Owner. The Contractor shall exercise special care in keeping the rights-of-way and private lands upon which work is performed free and clean of all debris, and shall remove all tools and other property when they are not in use. The costs of finishing and clean-up will be considered to be included in the prices stipulated for the appropriate items of work as listed in the Bid, and not as a separate payment, except for cleaning and sweeping pavement.

ARTICLE 25: CLEAN-UP AT CONTRACTOR'S EXPENSE

In case the Contractor fails or neglects to promptly remove all surplus materials, tools, and incidentals after backfilling, leaving the street or surrounding area clean and free of debris, and do the required temporary or permanent paving when stipulated or ordered, the Owner may, after twenty-four (24) hours notice, cause the work to be done and the cost thereof deducted from any payment due to the Contractor.

ARTICLE 26: RIGHTS OF ACCESS

Nothing herein contained or shown on the drawings shall be construed as giving the Contractor exclusive occupancy of the work area. The Owner or any other contractors employed by him/her, the various utility companies, contractors or subcontractors employed by State or Federal agencies, or any other agencies involved in the general project or upon public rights-of-way, may enter upon or cross the area of work or occupy portions of the area as is directed or necessary. When the territory of one contract is the convenient means of access to the other, the Contractor shall arrange his/her work in such a manner as to permit such access to the other and prevent unnecessary delay to the work as a whole.

ARTICLE 27: LOADING

No part of the structures involved in this Contract shall be loaded during construction with a load greater than it is calculated to carry with safety. Should any accidents or damage occur through any violation of this requirement, the Contractor will be held responsible under his/her Contract and bond.

ARTICLE 28: EXISTING UTILITIES OR CONNECTIONS

The Contractor shall assume that there are existing water and other utility connections to each and every building in route, whether they appear on the drawings or not. Any expense and/or delay occasioned by utilities and structures or damage thereto, including those not shown, shall be the responsibility of the Contractor, at no additional expense to the Owner.

Before proceeding with construction operations, the Contractor shall make such supplemental investigations, including exploratory excavations by hand digging, as he/she deems necessary to uncover and determine the exact locations of utilities and structures and shall have no claims for damages due to encountering subsurface structures and shall have no claims for damages due to encountering subsurface structures or utilities in locations other than those shown on the drawings, or which are made known to the Contractor prior to construction operations. The Contractor shall be responsible and liable for all damages to existing utilities and structures. The costs of this work will be considered to be included in the prices stipulated for the appropriate items of work as listed in the Bid, and not as a separate payment.

ARTICLE 29: COMPLETENESS OF THE WORK

In addition to the specified or described portions of the work, all other work and all other materials, equipment and labor of whatever description, necessary or required to complete the work, or for carrying out the full intent of the drawings and specifications; such work, labor, materials, and equipment shall be provided by the Contractor, and payment therefore shall be considered as having been included in the prices stipulated for the appropriate item of work listed in the Bid.

ARTICLE 30: CARE OF THE WORK

The Contractor shall be responsible for all damages to persons or property that occur as a result of his/her fault or negligence in connection with the prosecution of the work and shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance by the Owner, whether or not the same has been covered by partial payments made by the Owner.

ARTICLE 31: INDEMNITY

The Contractor shall at all times indemnify and save harmless the Owner and the Engineer, their servants and agents, from any and all claims and from any suits, litigations, damages, losses or the like arising out of injuries sustained or alleged to have been sustained by any persons or property in connection with the Contract work, caused in whole or in part by acts or omissions of the Contractor, his/her subcontractors, material men or anyone directly or indirectly connected with the Contract work.

ARTICLE 32: FIRE PREVENTION AND PROTECTION

All State and municipal rules and regulations with respect to fire prevention, fire-resistant construction, and fire protection shall be strictly adhered to and all work and facilities necessary therefore shall be provided and maintained by the Contractor in an approved manner.

All fire protection equipment such as water tanks, hoses, pumps, extinguishers, and other materials, and apparatus, shall be provided for the protection of the Contract work, temporary work, and adjacent property. Trained personnel experienced in the operation of all fire protection equipment and apparatus shall be available on the site whenever work is in progress, and at such other times as may be necessary for the safety of the public and the work.

ARTICLE 33: WORK BY OTHERS

The Owner reserves the right to do any other work which may be connected with, or become a part of, or be adjacent to the work embraced by this CONTRACT, at any time, by Contract or otherwise. The Contractor shall not interfere with the work of such others as the Owner may employ, and shall execute his/her own work in such a manner as to aid in the execution of the work of others as may be required. No backfilling of trenches or excavations will be permitted until such work by the Owner is completed.

ARTICLE 34: CHANGES AND MODIFICATIONS

The Owner reserves the right to delete or cancel any item or items or parts thereof as listed in the Bid, without recourse by the Contractor. The Owner also reserves the right to add any item as listed in the bid. The compensation to be paid to the Contractor for such additional extensions, appurtenances, or items shall be made under the applicable items in the Bid. If no applicable items are provided in the Bid, the compensation to be paid the Contractor shall be set forth under the article entitled "Changes in the Work" as found in the GENERAL CONDITIONS.

ARTICLE 35: CONSTRUCTION SCHEDULE

In addition to other requirements specified, and within five (5) days after written Notice to Proceed, the Contractor shall confer with the Owner for the purpose of drafting a construction schedule satisfactory to the Owner which is to include all the work under this Contract. The Contractor shall perform the work of this Contract to conform with the schedule as approved by the Owner, except that the Owner reserves the right to amend and alter the construction schedule at any time, in a manner which is deemed to be in the best interest of the Owner to do so. The Contractor shall arrange his/her work to conform with this schedule as it may be revised from time to time by the Owner, at no additional expense to the Owner. The Contractor shall notify the Owner immediately of any circumstances which may affect the performance of the work in accordance with the current construction schedule.

ARTICLE 36: FIRE AND POLICE NOTIFICATION

If it becomes necessary at any time to temporarily barricade a street or cause detours to be put up, or rerouting of traffic, the Engineer, Fire Department, Police Department and School Department shall be notified by the Contractor, and their consent obtained forty-eight (48) hours before any such action is initiated.

ARTICLE 37: TEMPORARY POWER

The Contractor shall make all the necessary arrangements with the power company for providing temporary electric power for his/her use, if necessary. All unauthorized sources of power, such as neighboring homes, shall be prohibited.

ARTICLE 38: FAILURE TO REPAIR

Any emergency arising from the interruption of electric, gas, water, or sewer service due to the activities of the Contractor, shall be repaired by the Contractor as quickly as is possible.

If and when, in the opinion of the Owner, the Contractor is not initiating repair work as expeditiously as possible upon notification to do so, the Owner may, at his/her own option, make the necessary repairs using his/her own forces or those of others. The cost of such repairs shall be subtracted from the payments due to the Contractor.

ARTICLE 39: UNIFORMED POLICE PROTECTION

The Contractor shall coordinate his/her operations with the local Police Department who will regulate traffic flow on the streets on which work is being done. The Public Works Department and the Police Department will determine the need for Traffic Police on the job. If it is so determined that the location of the work with respect to traffic requires Traffic Police, the Contractor shall arrange for uniformed police officers as may be necessary. The Contractor shall be compensated for police detail through an allowance item listed on the Bid Form. The presence of Traffic Police shall in no way relieve the Contractor of any responsibility or liability which is his/her under the terms of the Contract.

ARTICLE 40: BLASTING AND EXPLOSIVES

No blasting and explosives shall be allowed on this project.

ARTICLE 41: DIFFERING SITE CONDITIONS

- a. The Contractor shall promptly and before such conditions are disturbed, notify the Owner in writing of: (1) subsurface or latent physical conditions at the site differing materially from those indicated in this Contract, or (2) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Contract. The Owner shall promptly investigate the conditions, and if he/she finds that such conditions do materially so differ and cause an increase or decrease in the Contractor's cost of, or the time required for, performance of any of the work under this Contract, whether or not changed as a result of such conditions, an equitable adjustment shall be made and the Contract modified in writing accordingly.
- b. No claim of the Contractor under this clause shall be allowed unless the Contractor has given the notice required in (a) above; provided, however, the time prescribed therefore may be extended by the Owner.
- c. No claim by the Contractor for an equitable adjustment hereunder shall be allowed if asserted after final payment under this Contract.

ARTICLE 42: SUSPENSION OF WORK

The Owner may order the Contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as he/she may determine to be appropriate for the convenience of the Owner.

- a. If the performance of all or any part of the work is, for an unreasonable period of time, suspended, delayed, or interrupted by an act of the Owner in administration of this Contract, or by his/her failure to act within the time specified in this Contract (or if no time is specified, within a reasonable time), an adjustment shall be made for any increase in the cost of performance of this Contract (excluding profit) necessarily caused by such unreasonable suspension, delay, or interruption and the Contract modified in writing accordingly. However, no adjustment shall be made under this clause for any suspension, delay, or interruption to the extent (1) that performance would have been so suspended, delayed, or interrupted by any other cause, including the fault or negligence of the Contractor or (2) for which an equitable adjustment is provided for or excluded under any provision of this Contract.

- b. No claim under this clause shall be allowed (1) for any costs incurred more than twenty (20) days before the Contractor shall have notified the Owner in writing of the act or failure to act involved (but this requirement shall not apply as to a claim resulting from a suspension order), and (2) unless the claim, in an amount stated, is asserted in writing as soon as practicable, after the termination of such suspension, delay or interruption, but not later than the date of final payment under the Contract.

ARTICLE 43: TERMINATION FOR DEFAULT; DAMAGES FOR DELAY; TIME EXTENSIONS

- a. If the Contractor refuses or fails to prosecute the work, or any separable part thereof, with such diligence as will insure its completion within the time specified in this Contract, or any extension thereof, or fails to complete said work within such time, the Owner may, by written notice to the Contractor, terminate his/her right to proceed with the work or such part of the work as to which there has been a delay. In such event the Owner may take over the work and prosecute the same to completion, by Contract or otherwise, and may take possession of and utilize in completing the work such materials, appliances, and a plant as may be on the site of the work and necessary therefore. Whether or not the Contractor's right to proceed with the work is terminated, he/she and his/her sureties shall be liable for any damage to the Owner resulting from his/her refusal or failure to complete the work within the specified time.
- b. If fixed and agreed liquidated damages are provided in the Contract and if the Owner so terminates the Contractor's right to proceed, the resulting damage will consist of such liquidated damages until such reasonable time as may be required for final completion of the work together with any increased costs occasioned the Owner in completing the work.
- c. If fixed and agreed liquidated damages are provided in the Contract and if the Owner does not so terminate the Contractor's right to proceed, the resulting damage will consist of such liquidated damages until the work is completed or accepted.
- d. The Contractor's right to proceed shall not be so terminated nor the Contractor charged with resulting damage if:
 1. The delay in the completion of the work arises from causes other than normal weather beyond the control and without the fault or negligence of the Contractor, including but not restricted to, acts of God, acts of the public enemy, acts of the Owner in either its sovereign or contractual capacity, acts of another Contractor in the performance of a Contract with the Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, unusually severe weather, or delays of subcontractors or suppliers arising from causes other than normal weather beyond the

control and without the fault of negligence of both the Contractor and such subcontractors or suppliers; and

2. The Contractor, within ten (10) days from the beginning of any such delay (unless the Owner grants a further period of time before the date of final payment under the Contract), notifies the Owner in writing of the causes of delay. The Owner shall ascertain the facts and the extent of the delay and extend the time for completing the work when, in his/her judgement, the findings of fact shall be final and conclusive on the parties, subject only to appeal as provided in the Remedies clause of this Contract.
- e. If, after Notice of Termination of the Contractor's right to proceed under the provisions of this clause, it is determined for any reason that the Contractor was not in default under the provisions of this clause, or that the delay was excusable under the provisions of this clause, the rights and obligations of the parties shall, if the Contract contains a clause providing for termination for convenience of the Owner, be the same as if the Notice of Termination had been issued pursuant to such a clause. If, in the foregoing circumstances, this Contract does not contain a clause providing for termination for convenience of the Owner, the Contract shall be equitably adjusted accordingly; failure to agree to any such adjustment shall be subject to the Remedies clause of this Contract.
- f. The rights and remedies of the Owner provided in this clause are in addition to any other rights and remedies provided by law or under this Contract.
- g. As used in paragraph (d) (1) of this clause, the term "subcontractors or suppliers" means subcontractors or suppliers at any tier.

ARTICLE 44: TERMINATION FOR CONVENIENCE

- a. The performance of work under this Contract may be terminated by the Owner in accordance with this clause in whole, or from time to time in part, whenever the Owner shall determine that such termination shall be effected by delivery to the Contractor of a Notice of Termination specifying the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.
- b. After receipt of a Notice of Termination, and except as otherwise directed by the Owner, the Contractor shall:
 1. Stop work under the Contract on the date and to the extent specified in the Notice of Termination;
 2. Place no further orders or subcontracts for materials, services, or facilities except as may be necessary for completion of such portion of the work under the Contract as is not terminated;

3. Terminate all orders and subcontracts to the extent that they relate to the performance of work terminated by the Notice of Termination;
 4. Assign to the Owner, in the manner, at the times, and to the extent directed by the Owner, all of the right, title, and interest of the Contractor under the orders and subcontracts so terminated. In which case, the Owner shall have the right, in its discretion, to settle, or pay any or all claims arising out of the termination of such orders and subcontracts;
 5. Settle all outstanding liabilities and all claims arising out of such termination of orders and subcontracts, with the approval or ratification of the Owner to the extent he/she may require, which approval or ratification shall be final for all the purposes of this clause;
 6. Transfer title to the Owner, and deliver in the manner, at the times, and to the extent, if any, directed by the Owner, (i) the fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced as a part of, or acquired in connection with the performance of work terminated by the Notice of Termination, and (ii) the completed or partially completed plans, drawings, information, and other property which, if the Contract had been completed, would have been required to be furnished to the Owner.
 7. Use his/her best efforts to sell, in the manner, at the times, to the extent, and at the price or prices directed or authorized by the Owner, any property of the types referred to in (6) above; provided, however, that the Contractor (i) shall not be required to extend credit to any purchaser, and (ii) may acquire any such property under the conditions prescribed and at a price or prices approved by the Owner: And, provided further, that the proceeds of any such transfer or disposition shall be applied in reduction of any payments to be made by the Owner to the Contractor under this Contract or shall otherwise be credited to the price or cost of the work covered by this Contract or paid in other such manner as the Owner may direct;
 8. Complete performance of such part of the work as shall not have been terminated by the Notice to Termination; and
 9. Take such action as may be necessary, or as the Owner may direct, for the protection and preservation of the property related to this Contract which is in the possession of the Contractor and in which the Owner has or may acquire an interest.
- c. After a receipt of Notice of Termination, the Contractor shall submit to the Owner his/her termination claim, in the form and with the certification prescribed by the

Owner. Such claim shall be submitted promptly but in no event later than one (1) year from the effective date of termination, unless one (1) or more extensions in writing are granted by the Owner upon request of the Contractor made in writing within such one (1) year period or authorized extension thereof. However, if the Owner determines that the facts justify such action, he/she may receive and act upon any such termination claim at any time after such one (1) year period or extension thereof. Upon failure of the Contractor to submit his/her termination claim within the time allowed, the Owner may determine, on the basis of information available to him/her, the amount, if any, due to the Contractor by reason of the termination and shall thereupon pay to the Contractor the amount so determined.

- d. Subject to the provisions of paragraph (c), the Contractor and the Owner may agree upon the whole or any part of the amount or amounts to be paid to the Contractor by reason of the total or partial termination of work pursuant to this clause which amount or amounts may include a reasonable allowance for profit on work done; provided, that such agreed amount or amounts, exclusive of settlement costs, shall not exceed the total Contract price or work not terminated. The Contract shall be amended accordingly, and the Contractor shall be paid the agreed amount. Nothing in Paragraph (e) of this clause, prescribing the amount to be paid to the Contractor by reason of the termination of work pursuant to this clause, shall be deemed to limit, restrict, or otherwise determine or affect the amount or amounts which may be agreed upon to be paid to the Contractor pursuant to this Paragraph (d).
- e. In the event of the failure of the Contractor and the Owner to agree as provided in Paragraph (d) upon the whole amount to be paid to the Contractor by reason of the termination of work pursuant to this clause, the Owner shall determine, on the basis of information available to him/her, the amount, if any, due to the Contractor the amounts determined as follows:
 1. With respect to all Contract work performed prior to the effective date of the Notice of Termination, the total (without duplication of any items) of:
 - (i) The cost of such work;
 - (ii) The cost of settling and paying claims arising out of the termination of work under subcontracts or orders provided in Paragraph (b) (5) above, exclusive of the amounts paid or payable on account of supplies or materials delivered or services furnished by the subcontractor prior to the effective date of the Notice of Termination of work under this Contract, which amounts shall be included in the cost on account of which payment is made under (i) above, and;

- (iii) A sum, as profit on (i) above, determined by the Owner to be fair and reasonable; provided, however, that if it appears that the Contractor would have sustained loss on the entire Contract had it been completed, no profit shall be included or allowed under this subdivision (iii) and an appropriate adjustment shall be made reducing the amount of the settlement to reflect the indicated rate of loss; and
- 2. The reasonable cost of the preservation and protection of property incurred pursuant to Paragraph (b) (9); and any other reasonable cost incidental to termination of work under this Contract, including expense incidental to the determination of the amount due to the Contractor as the result of the termination of the work under this Contract.

The total sum to be paid to the Contractor under (1) above shall not exceed the total Contract price as reduced by the amount of payments otherwise made and as further reduced by the Contract price of work not terminated. Except for the normal spoilage, and except to the extent that the Owner shall have otherwise expressly assumed the risk of loss, there shall be excluded from the amounts payable to the Contractor under (1) above, the fair value, as determined by the Owner, of property which is destroyed, lost, stolen, or damaged so as to become undeliverable to the Owner, or to a buyer pursuant to Paragraph (b) (7).

- f. The Contractor shall have the right to dispute under the clause of this Contract entitled "Remedies" from any determination made by the Owner under Paragraph (c) or (e) above, except that, if the Contractor has failed to submit his/her claim within the time provided in Paragraph (c) above, except that, if the Contractor has failed to request extension of such time, he/she shall have no such right of appeal. In any case where the Owner has made a determination of the amount due under Paragraph (c) or (e) above, the Owner shall pay to the Contractor the following: (1) if there is no right of appeal hereunder or if no timely appeal has been taken, the amount so determined by the Owner or (2) if a "Remedies" proceeding is initiated, the amount finally determined in such "Remedies" proceeding.
- g. In arriving at the amount due the Contractor under this clause, there shall be deducted (1) all unliquidated advance or other payments on account theretofore made to the Contractor, applicable to the terminated portion of this Contract, (2) any claim which the Owner may have against the Contractor in connection with this Contract, and (3) the agreed price for, or the proceeds of the sale of any materials, supplies, or other things kept by the Contractor or sold, pursuant to the provisions of this clause, and not otherwise recovered by or credited to the Owner.
- h. If the termination hereunder be partial, prior to the settlement of the terminated portion of this Contract, the Contractor may file with the Owner a request in

writing for an equitable adjustment of the price or prices specified in the Contract relating to the continued portion of the Contract (the portion not terminated by the Notice of Termination) and such equitable adjustment as may be agreed upon shall be made in such price or prices; however, nothing contained shall be made in such price or prices; however, nothing contained herein shall limit the right of the Owner and the Contractor to agree upon the amount or amounts to be paid the Contractor for the completion if the continued portion of the Contract when said Contract does not contain an established contract price for such continued portion.

ARTICLE 45: AUDIT, ACCESS TO RECORDS

The Contractor shall maintain books, records, documents, and other evidence directly pertinent to performance of work under this Contract in accordance with generally accepted accounting principles and practices. The Contractor shall also maintain the financial information and data used by the Contractor in the preparation or support of the cost submission or for any negotiated contract or change order and a copy of the cost summary submitted to the Owner. The Contractor will provide proper facilities for such access and inspection.

Audits conducted pursuant to this Provision shall be in accordance with generally accepted auditing standards and established procedures and guidelines of the reviewing or audit agency(ies).

The Contractor agrees to the disclosure of all information and reports resulting from the access to records pursuant to paragraphs above, to any of the agencies referred to above, provided that the Contractor is afforded the opportunity to comment and submit any supporting documentation on the pertinent portions of the draft audit report that the final audit report will include written comments of reasonable length, if any, of the Contractor.

Records under paragraphs above shall be maintained and made available during performance on work under this Contract and until three (3) years from the date of final payment for the project. In addition, those records which relate to any "Dispute", appeal agreement, or litigation, or the settlement of claims arising out of such performance, or costs or items to which an audit exception has been taken, shall be maintained and made available until three (3) years after the date of resolution of such appeal, litigation, claim or exception.

ARTICLE 46: COVENANT AGAINST CONTINGENT FEES

The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty, the Owner shall have the right to annul this Contract without liability or in its discretion to deduct from the Contract price or consideration, or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

ARTICLE 47: GRATUITIES

- a. If it is found, after notice and hearing, by the Owner that gratuities (in the form of entertainment, gifts or otherwise) were offered or given by the Contractor, or any agent or representative of the Contractor, to any official, employee or agent of the Owner, or of the State, with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performance of this Contract, the Owner may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this Contract, the Owner may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this Contract or may pursue such other rights and remedies provided by law or under this Contract; provided, that the existence of the facts upon which the Owner makes such findings shall be in issue and may be reviewed in proceedings pursuant to the "Remedies clause of this Contract.
- b. In the event this Contract is terminated as provided in Paragraph (a) hereof, the Owner shall be entitled (1) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the Contract by the Contractor, and (2) as a penalty in addition to any other damages to which it may be entitled to by law, to exemplary damages in an amount (as determined by the Owner) which shall be not less than three (3) nor more than ten (10) times the cost incurred by the Contractor in providing any such gratuities to any such officer or employee.

ARTICLE 48: CONTRACTOR TO LAY OUT HIS/HER OWN WORK

The Owner or its representative will establish such general reference points as in his/her judgement will enable the Contractor to proceed with the work. The Contractor, at his/her own expense, shall provide all materials and equipment and such qualified helpers as the Owner may require for setting the general reference points and shall protect and preserve all stakes, benches, and other markers used to identify the reference points. The Contractor shall lay out all the Contract work from the above and shall be responsible for the accuracy of all lines, grades, and measurements.

ARTICLE 49: SUBSURFACE STRUCTURES AND UTILITIES

The Contractor shall make investigations including exploratory excavations, by hand digging, as he/she deems necessary to uncover and determine the exact locations of utilities and structures as necessary to complete the work, and shall have no claims for damages due to encountering subsurface structures or utilities in locations other than those shown on the Drawings, or which are made known to the Contractor prior to construction operations.

ARTICLE 50: PROTECTION OF CONSTRUCTION FEATURES

The Contractor shall take adequate precautions to protect existing sidewalks, curbs, berms, pavements, utilities, adjoining property and such incidentals, and to avoid damage thereto. The Contractor shall completely repair any damage at no additional expense to the Owner.

ARTICLE 51: ARBITRATION

All claims, disputes, and other matters in question arising out of, or relating to, the Contract Documents or the breach thereof, except for claims which have been waived by the making and acceptance of final payment as provided by in Article 58 of General Conditions, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association. This agreement to arbitrate shall be specifically enforceable under the prevailing arbitration law. The award rendered by the arbitrators shall be final, and judgement may be entered upon it in any court having jurisdiction thereof.

Notice of the demand for arbitration shall be filed in writing with the other party to the Contract Documents and with the American Arbitration Association, and a copy shall be filed with the Engineer. Demand for arbitration shall in no event be made on any claim, dispute or other matter in question which would be barred by the applicable statute of limitations.

The Contractor will carry on the work and maintain the progress schedule during any arbitration proceedings, unless otherwise mutually agreed in writing.

END OF SECTION 00800

SECTION 00820**STATE REGULATIONS**1. **Labor Classifications and Minimum Wage Rates**

- A. Minimum wage rates as determined by the U.S. Department of Labor apply to this project. The current prevailing wage rates have been provided in Section 00620 of this document.

It is the responsibility of the Contractor, before bid opening, to request, if necessary, any additional information on Federal Wage Rates for those tradespeople who are not covered by the applicable General Wage Decision, but who may be employed for the proposed work under this Contract.

All construction associated with this contract will be governed by Heavy and Highway Rates.

2. **Minority/Women’s Business Enterprise (MBE/WBE) Forms**

- A. Disadvantaged Business Enterprise (including MBE and WBE) policies of the State of Rhode Island and the Town of Coventry are applicable to this Contract. The goal for this project is a minimum of **zero (0) percent** participation by state-certified MBEs/WBEs.
- B. Although not required the Owner encourages the use of small businesses, minority owned and Section 3 businesses.

END SECTION 00820

SECTION 00830**CHANGE ORDERS****POLICY**

All executed change orders submitted to the Engineer for review and processing must be prepared in accordance with the attached change order format (Appendix A) with the appropriate number of copies, calculation sheet(s) (Appendix B) and all other supporting documentation necessary for evaluation. Failure to comply with these instructions will result in delays in processing the change order.

In order to avoid possible delays with approval of change orders, at the beginning of the project and as circumstances warrant, the Contractor shall submit a list of construction equipment, identifying major pieces of equipment to be utilized on the project. The list shall include the Contractor's designation, if any, the manufacturer, model, year of manufacture, serial number, size and horsepower of equipment. The Contractor shall also provide for approval a proposed bluebook equipment rental rate development that separately lists for each piece of equipment the monthly rental rate, area adjustment factor, depreciation factor, estimated operating cost per hour and total hourly rate. In the event the Contractor fails or is unable to provide appropriate rate information the Engineer may develop equipment rental rates for use on change orders.

PAYMENT OF CHANGE ORDERS

Payment of all change orders shall be in accordance with the relevant provisions of Rhode Island General Laws, as amended from time to time.

Payment of change orders shall be made in accordance with one of the following three (3) methods:

1. Existing unit prices as set forth in the Contract; or
2. Agreed upon lump sum or unit prices; or
3. Time and materials

A. Payment for work for which there is a unit price in the Contract:

Where the Contract contains a unit price for work and the Engineer orders a change for work of the same kind as other work contained in the Contract and is performed under similar physical conditions, the Contractor shall accept full and final payment at the Contract unit price(s) for the acceptable quantities. Under certain circumstances, the unit prices may be subject to revaluation and adjustment.

B. Payment for work or materials for which no price is contained in the Contract:

If the Engineer directs, the Contractor shall submit promptly in writing to the Engineer an offer to do the required work on a lump sum or unit price basis, as specified by the Engineer. The stated price, either lump sum or unit price, shall be divided so as to show that it is the sum of:

1. The estimated cost of Labor, plus
2. Direct Labor Cost, plus
3. Material and Freight Costs, plus
4. Equipment Costs, plus
5. An amount not to exceed 20% of the sum of items 1 through 4 for overhead and profit, plus (if applicable),
6. In the case of work done by a subcontractor an amount not to exceed 7½%, for the general contractor of the sum of the cost (not including subcontractor's overhead and profit) of items 1 through 4 for his overhead and profit (less, if applicable),
7. Credits for work deleted from the Contract.

C. Payment for work on a time and materials basis:

Unless an agreed lump sum and/or unit price is obtained as noted above and is so stated in the change price, the Contractor shall accept as full payment for which no agreement is contained in Contract, an amount equal to:

1. The estimated cost of Labor, plus
2. The Direct Labor Costs, plus
3. Equipment Costs, plus
4. Material and Freight Costs, plus
5. An amount not to exceed 20% of the sum of items 1 through 4 for overhead and profit, plus, if applicable,
6. In the case of work done by a subcontractor an amount not to exceed 7½%, for the general contractor of the sum of the cost (not including subcontractor's overhead and profit) of items 1 through 4 for his overhead and profit (less, if applicable),
7. Credit for work deleted from the Contract.

Explanation of items 1 through 7
as outlined in "B" and "C" above:

1. Labor - Only those workers employed on the project who are doing the extra work, including the foreman in charge, are allowable. General foremen, superintendents, or other supervisory personnel are considered to be included in the overhead markup as provided in items 5 and/or 6. Hourly labor rates in excess of those as listed in the Contract wage rates

require documentation. As a minimum, an explanation and the appropriate copy of the certified payroll are required.

2. Direct Labor Costs - These costs are limited to those which are required in the Contract Documents. Coverage in excess of the Contract provisions, secured by the Contractor/subcontractor(s) at his option, are ineligible. The following list of typical direct labor charges is provided for your assistance and is in no way intended to be complete or all encompassing:

Workman's Compensation

Federal/State: Social Security Tax and Unemployment Tax;

Health, Welfare and Pension Benefits; (this cost is included in the prevailing wage rates).

Liability Insurance:	Bodily Injury; Excess Umbrella; Property Damage; Public
Blasters Insurance	If applied
Builders Risk Insurance	to any required
Experience Modification	direct
Insurance	labor
Surcharges	costs

Following award and prior to execution of a construction Contract, the Contractor and filed subbidders (where applicable) shall submit for review by the Owner, documentation to establish the markup percentage(s).

The documented direct labor markup for this Contract may be adjusted on an annual basis as measured from the date the Contract is executed. The Contract agreement will provide for the establishment of the Direct Labor Cost percentage.

3. Material and Freight - Only those materials required as a result of the change order and reasonable freight charges for delivery of same are allowable.
4. Equipment - Only the equipment required as a result of the change order is allowable. Equipment rental rates shall be governed by the current Nielson/Dataquest Rental Rate Bluebook for Construction Equipment (the "Bluebook"). In determining the rental rate, the following shall apply:

- a. For equipment already on the project - the monthly prorated rental rate by the hourly use shall be applicable;
- b. For equipment not on the project the daily rate, the weekly rate, or monthly rate will prevail, whichever will prove to be most cost effective. Small tools and manual equipment are examples of costs not allowable under this item. These costs are considered to be included in the overhead markup as provided in items 5 and/or 6.

(1 Month (Normal Use) = 176 hours)

5. & 6. Overhead and Profit - All other costs not previously mentioned are considered to be included in this item, be it for the general contractor or subcontractor(s).
7. Credits - Work deleted, material and equipment removed from the Contract, stored and/or returned shall be credited to the cost of the change order, less documented costs.

The Contractor shall furnish itemized statements of the cost of the work ordered and shall give the Engineer access to all accounts, bills and vouchers relating thereto; and unless the Contractor shall furnish such itemized statements, and access to all accounts, bills and vouchers, he/she shall not be entitled to payment for any items of extra work for which such information is sought by the Engineer.

Appendix A

Change Order
(Enter Project Name)
(Enter Location)

Sheet _____ of _____

Date: _____

Contract No. _____

Change Order No. _____

Owner's Name: _____

Owner's Address: _____

Contractor's Name: _____

Contractor's Address: _____

Item 1:

Description of Change:

Reason for Change:

Backup Information:

Cost: \$

Item 2:

Description of Change:

Reason for Change:

Backup Information:

Cost: \$

Change Order (Continued)
(Enter Project Name)
(Enter Location)

Sheet _____ of _____

Date: _____

Contract No. _____

Change Order No. _____

Contract Amount (As Bid) \$ _____

Amount of Previous Change Orders \$ _____

Net Change in Contract Price (this Change Order) \$ _____

Total Adjusted Contract Price (including this Change Order) \$ _____

This Change Order extends the time to complete the work by _____ calendar days.

The extended completion date is _____.

This Change Order checked by: _____
Resident Representative Date

This Change Order is requested by: _____

This Change Order is recommended by:

Consultant Engineer P.E. # Date

The undersigned agree to the terms of the Change Order.

Contractor Date

Owner Date

Appendix BExample Calculation Sheet

1.	Labor			
	Foreman	10 hours @	\$10.00/hour	\$ 100.00
	Engineer	10 hours @	\$8.50/hour	\$ 85.00
	Operator	10 hours @	\$9.50/hour	\$ 95.00
	Laborers	24 hours @	\$7.00/hour	<u>\$ 168.00</u>
				\$ 448.
2.	Direct Labor Cost (use the agreed upon Direct Labor Cost)			
	*(30)% of \$ 448.			
	*(used for example purposes only)			\$ 134.
3.	Materials & Freight			
	150 l.f. of 12" pipe	@	\$2.00/l.f.	\$ 300.00
	15 v.f. precast SMH			\$1,700.00
	Freight (slip# __Enclosed)			<u>\$ 25.00</u>
				\$2,025.
4.	Equipment			
	1 Backhoe 10 hours	@	80.00/hr.	\$ 800.00
	1 Truck-crane 10 hours	@	\$100.00/hr.	<u>\$1,000.00</u>
				\$1,800.
	TOTAL (items 1 through 4)			\$4,407.
5.	(20%) markup for Overhead, Profit			
	(20%) of \$4,407			\$ 881.
6.	(7½%) markup on subcontractor's cost for general contractor			
	(if subcontractor is involved)			
	(7½%) of \$4,407			\$ 331.
7.	Credits (deductibles)			<u>-\$ 323.</u>
	TOTAL COST			\$5,296.

Reminder:

Provide support documentation as necessary i.e. vouchers, correspondence, calculation, photographs, reports.

END OF SECTION 00830

SECTION 00900

ADDENDA

Addenda will be issued as separate Documents.

END SECTION 00900

TECHNICAL SPECIFICATIONS

DIVISION 1
GENERAL REQUIREMENTS

SECTION 01000**GENERAL REQUIREMENTS****PART 1 GENERAL****1.01 SCOPE OF WORK**

The project consists of the installation of a new traffic signal system, installation of new concrete and granite curbing for the wheelchair ramps and new concrete sidewalks.

1. The proposed improvements include, but not limited to: installation of a new traffic signal system including a dual mast arm (50' x 45') and pole, traffic signal controller and cabinet, intersection wide 360 degree video camera, video processor unit, mast arm mounted traffic signal heads, traffic signal standard 8' and 10' aluminum pedestal poles and foundations, LED pedestrian signal heads with countdown timers, signal conduit and wiring installation, remove and dispose concrete and granite curb, remove and dispose concrete sidewalk, removal and disposal of bituminous pavement, remove and stockpile cobblestone sidewalk blocks, installation of new concrete sidewalk, installation of new handicap ramps, installation of detectable warning panels, installation of new concrete and granite curb and concrete curb lock, sawcutting bituminous pavement, sawcutting concrete sidewalk, sawcutting and resetting granite cobblestone sidewalk, installation of pavement markings, appurtenances and installation of screened loam and seeding as required.

1.02 CONSTRUCTION SEQUENCE

- A. Prior to the start of any mobilization, construction or ordering of materials the Contractor shall schedule a Pre-Construction Conference and Site Walk with the Engineer and Owner.
- B. The Contractor shall ensure that no excavation be left open, unguarded, or water filled during any period of time when work is not in progress.
- C. Within five (5) days of receiving the Notice to Proceed, and prior to the start of construction, the Contractor shall submit a schedule for the work to be completed under this Contract for approval by the Owner.
- D. One (1) lane for traffic must remain open at all times on all roads during work day activities and two (2) lanes for traffic must be open during all non-work day periods. The Contractor shall seek approval from the Owner and/or Engineer for any changes to traffic flow conditions.
- E. No private work shall be conducted throughout the duration of the project by the Contractor during hours of operation. The Owner shall be notified of any proposed private work to be done by the Contractor prior to starting such work.

1.03 CHANGE IN AMOUNT OF WORK

- A. The Owner reserves the right to increase or decrease the amount of any item of work included in the Bid Form, as may be desirable or necessary during the course of this Contract. The unit prices quoted in the Bid Form shall apply without change to such variation in the quantity of work to the extent provided by law.

1.04 EXISTING UTILITIES

- A. Determining the location and depth of existing utilities will be the responsibility of the Contractor. The drawings do not show the exact location and depth of all utilities, nor do they show all utilities that may be encountered. If needed to perform the work, the Contractor shall locate all utilities in the area of the work by experimental excavations (if necessary) prior to and as the work progresses.
- B. The Contractor shall notify the proper utility companies and Owner to obtain the location of all utilities prior to beginning work. The marked locations shall be preserved by the Contractor during the course of the work, until such time as they are no longer needed.
- C. All utilities interfered with or damaged by the Contractor shall be immediately and properly restored by the Contractor. The Contractor shall fully compact all backfill material around and under all existing utilities encountered or crossed.

1.05 TEMPORARY FACILITIES

- A. If needed, the Contractor shall obtain the prior approval of the Owner and electrical utility provider for the temporary use of unmetered electrical power.
- B. The use of any utility, including storm drainage and water supply systems, shall be coordinated with the Owner prior to such use.

1.06 STOCKPILE OF MATERIALS

- A. The Contractor shall stockpile materials, plants, and equipment to be used in the construction in approved location(s) as directed by the Owner or Engineer. Erosion control measures shall be maintained by the Contractor around all stockpiles, as required by the Owner or Engineer. All storage locations shall be restored to their original condition by the Contractor at his/her expense.
- B. Materials shall be stored so as to preserve their quality and fitness for the work. Stockpiled materials approved before storage may be re-inspected prior to their use in the work.

1.07 DISPOSAL OF SURPLUS MATERIAL AND DEBRIS

- A. All surplus material or unsuitable material removed from the excavations or from abandoned units shall be legally disposed of offsite by the Contractor at his/her expense.
- B. During the progress of work the Contractor shall maintain the work site and adjoining areas in a neat and orderly manner and shall not allow the accumulation of construction debris. The Contractor shall use a suitable rubbish container at the site if so, directed by the Owner or Engineer. Should the Contractor neglect to maintain the site free of accumulated debris, the Owner reserves the right to have the service performed by others at the Contractor's expense.
- C. Before acceptance and payment for the work at the substantial completion and final completion stages of construction, surplus materials, and debris which the Contractor may have accumulated during the work on the site or any adjoining property shall be removed of and properly disposed of offsite at the Contractor's expense.

1.08 PERMITS AND FEES

- A. The Contractor shall obtain and comply with all required permits to complete the work, including all fees and bonds at his/her expense. The Contractor shall be solely responsible for performing all acts and providing all materials required to comply with all terms and conditions of required permits and licenses.

1.09 NOTIFICATION OF CONSTRUCTION

- A. At least five (5) business days prior to beginning the work the Contractor shall notify the following agencies to provide information regarding proposed excavations:
 - 1. DIG SAFE;
 - 2. Public Works;
 - 3. Police Department;
 - 4. Fire Department;
 - 5. School Department;
 - 6. Sewer Department;
 - 7. West Warwick Wastewater Sewer Facility;
 - 8. Water Department;
 - 9. Kent County Water Authority;
 - 10. Owner's Site Representative; and
 - 11. Engineer

- B. Specific advanced notification is required for RI Energy relating to any work in the vicinity of the existing gas vaults adjacent to Hopkins Hill Road at the intersection. Coordination with the following RI Energy representatives will be necessary for any excavation within 200 feet of the gas vault system to coordinate a construction monitoring program;

- James Paulette, Principal Engineer
jmpaulette@rienergy.com
(401) 465-8580
- Jason Costa, I&R Inspector
jecosta@rienergy.com
(781) 290-3515

1.10 SUBMITTALS

- A. The Contractor shall submit to the Engineer for acceptance, shop drawings and other forms as required in Section 00700 General Conditions Article 36, for all items to be furnished under this Contract.
- B. The Contractor shall submit to the Owner and Engineer warranties of all traffic signal equipment.

1.11 EMERGENCY SERVICE

- A. The Contractor shall maintain a full-time telephone service with access to his/her representative having the authority to respond to emergency. The emergency telephone service number and list of contact personnel shall be submitted to the Owner and Engineer prior to beginning work, and shall be maintained throughout the progress of work and the full contract period.
- B. The Contractor shall be capable of placing response personnel at the work site within one (1) hour of emergency notification.

1.12 HOURS OF OPERATION

- A. No outdoor activity by the Contractor shall be permitted on the site outside of the hours of 7:00 a.m. to 5:00 p.m., Monday through Friday, except as required by the Contract Documents.
- B. The Owner may approve other work hours for special considerations such as work to be completed during off-peak hours. The Contractor must receive written approval from the Owner prior to working during such hours.

1.13 PRECONSTRUCTION CONFERENCE

- A. Prior to the start of the construction there will be a pre-construction conference and site walk to discuss the phasing and scheduling of the construction project. The specific time and place of the conference will be arranged by the Owner after the Contract has been awarded.

1.14 PROGRESS MEETINGS

- A. During the course of the construction project, the Contractor shall attend status meetings as scheduled by the Engineer or Owner to be held at the Site or at the Coventry Public Works Office. The attendance of subcontractors and suppliers may be required during the progress of the work. The Contractor's Project Manager shall attend the meeting and shall be prepared and authorized to discuss the following items:

1. Progress of Work in relation to Contract Schedule;
2. Proposed Work activities for forthcoming period;
3. Resources committed to Contract;
4. Coordination of Work with others;
5. Status of procurement of equipment and materials;
6. Status of Submittals;
7. Outstanding actions, decisions, or approvals that affect Work activities;
8. Security issues;
9. Quality Issues;
10. Potential Claims;
11. Contract Changes;
12. Costs and Budget;
13. Labor;
14. Insurance.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01000

SECTION 01010

MOBILIZATION AND DEMOBILIZATION

PART 1 GENERAL

1.01 SCOPE

- A. The work shall consist of the mobilization and demobilization of the Contractor’s forces and equipment necessary for performing all the work required under the Contract.
- B. This work shall not include mobilization and demobilization for specific items of work for which payment is provided elsewhere in the Contract.
- C. Mobilization will not be considered as work in fulfilling the Contract requirements for commencement of work.

1.02 GENERAL

- A. Mobilization shall include all activities and associated costs for transportation of Contractor’s personnel, equipment, and operating supplies to the site; establishment of offices, buildings, and other necessary general facilities for the Contractor’s operations at the site; premiums paid for performance and payment bonds, including coinsurance and reinsurance agreements as applicable; and other items specified in these Specifications.
- B. Demobilization shall include all activities and costs for transportation of personnel, equipment, and supplies not required or included in the Contract from the site; including the disassembly, removal and site clean up of offices, buildings and other facilities assembled on the site specifically for this Contract.
- C. This work includes mobilization and demobilization required by the Contract at the time of award. If additional mobilization and demobilization activities and costs are required during the performance of the Contract as a result of changed, deleted, or added items of work for which the Contractor is entitled to an adjustment in Contract price, compensation for such costs will be included in the price adjustment for the item or items of work changed or added.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01010

SECTION 01025**MEASUREMENT AND PAYMENT**

PART 1 GENERAL

1.01 SCOPE

- A. The purpose of this section is to define the method of measurement and payment for each of the Bid items listed in the BID FORM.
- B. The Contractor shall be responsible for all work associated with each Bid item for the price Bid, and shall have no claim for additional compensation due to his/her unfamiliarity with the measurement and payment requirements.
- C. All work performed as described in these contract documents will be paid for under one (1) or more of the items listed in the BID FORM. All other activities required in connection with performance of the work, including all work required under Division 1, GENERAL REQUIREMENTS, whether described in the Contract Documents or mandated by applicable codes, permits and laws, will not be separately paid for unless specifically provided for in the form of general bid, but will be considered incidental to performance of the overall project.
- D. Each unit or lump-sum price stated in the BID FORM shall constitute full compensation as herein specified for each item of work completed in accordance with the drawings and specifications.
- E. The payment items listed herein and in the BID FORM are intended to provide full payment for the work shown on the drawings and specified herein. Any work called for or implied in the documents but not listed as a payment item shall be considered incidental to the overall project.
- F. Unless otherwise noted, each item shall be furnished and installed in accordance with the Technical Specifications whether a specific applicable payment item exists or not.

1.03 PAYMENT ITEMS

<u>ITEM No.</u>	<u>DESCRIPTION</u>	<u>UNIT</u>
1.	Remove and Dispose Curb	LF
2.	Remove and Stockpile Cobblestones	SY
3.	Portland Cement Concrete Sidewalk and Driveway	SY
4.	Granite Curb	LF
5.	Precast Concrete Curb	LF
6.	6 AWG Single Conductor Cable 600V Insulation	LF
7.	14 AWG Conductor Cable	LF
8.	Video Detection Cable	LF
9.	Handholes	EA
10.	Conduit Underground	LF
11.	Conduit Under Existing Pavement	LF
12.	Conduit Overhead	LF
13.	Dual Mast Arm (50'x45') Galvanized Steel Traffic Signal Post and Foundation STD. 19.2.0	EA
14.	Traffic Signal STD. 8 Foot STD. 19.4.0 Aluminum Pedestal and Foundation	EA
15.	Traffic Signal STD. 10 Foot STD 19.4.0 Aluminum Pedestal and Foundation	EA
16.	YUNEX M60, NEMA TS-2 Type 1, 8 Phase Actuated Controller, Including FMU, Cabinet and Foundation	EA
17.	Meter Socket and Manual By-Pass	EA
18.	Accessible Pedestrian Detector – Push Button with Sign	EA
19.	Intersection Wide 360 Degree Video Detection System – AXIS M4318-PLVE Panoramic Camera	EA
20.	Video Processor Unit – CURRUX Vision ITS Video Detection System Equipment	EA
21.	Vehicular and Pedestrian Signal Heads	EA
22.	Pavement Markings	LF
23.	Remove Pavement Markings	LF
24.	Traffic Protection	LS
25.	Mobilization/Demobilization	LS
26.	Police Detail Allowance	HRS

1.04 METHOD OF MEASUREMENT AND BASIS OF PAYMENT

The methods of measurement and basis of payment for the Payment Items listed above are specified in the following section.

BID ITEM NO. 1: REMOVE AND DISPOSE CURB

The quantity of remove and dispose curb to be paid for under this item shall be measured by the number of linear feet removed, stockpiled and/or disposed, complete as indicated on the Plans or as otherwise directed by the Town or Engineer.

The unit price for this item shall constitute full compensation for all labor, materials, equipment, for saw-cutting, excavating, removal, stockpiling, and delivery to the Town of Coventry, Department of Public Works Facility, or proper disposal as directed by the Town or Engineer, and all other incidentals required to finish the work, complete and accepted by the Engineer.

BID ITEM NO. 2: REMOVE AND STOCKPILE COBBLESTONES

The quantity of remove and stockpile cobblestones to be paid for under this item shall be measured by the number of square yards removed and stockpiled, complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for all labor, materials, equipment, for excavating, removal and stockpiled on pallets, and transported to the Town of Coventry, Department of Public Works Facility as directed by the Town or Engineer, and all other incidentals required to finish the work, complete and accepted by the Engineer.

BID ITEM NO. 3: PORTLAND CEMENT CONCRETE SIDEWALK AND DRIVEWAY

The quantity of Portland Cement concrete sidewalks, including wheelchair ramps and driveways to be paid for under this item shall be measured by the number of square yards complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for all labor, materials, equipment, for saw cutting, excavating, removal and disposal of existing sidewalks as shown on the plans or as directed by the Engineer, gravel borrow, compaction, trimming and fine grading, forms, expansion joints, wire fabric reinforcement, Detectable Warning Panels, and all other incidentals required to finish the work, complete and accepted by the Engineer.

BID ITEM NO. 4: GRANITE CURB

The quantity of Granite Curb (all), including wheelchair ramp transition curb will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The price constitutes full compensation for all labor, materials, and equipment, including saw cutting (flexible or rigid pavement (all depths), excavation, joints, gravel borrow subbase course

(including compaction and trimming and fine grading), saw cutting existing or new granite curb to meet field conditions, backfilling, compacting, Portland Cement concrete curb lock, Class 9.5 HMA bituminous pavement patch, removal and disposal of existing pavements (both rigid and flexible), and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 5: PRECAST CONCRETE CURB

The quantity of Precast Concrete Curb (all), including wheelchair ramp transition curb will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The price constitutes full compensation for all labor, materials, and equipment, including saw cutting (flexible or rigid pavement (all depths), excavation, joints, gravel borrow subbase course (including compaction and trimming and fine grading), backfilling, compacting, curb lock, Class 9.5 HMA bituminous pavement patch, removal and disposal of exiting pavements (both rigid and flexible), and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 6: 6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION

The quantity of 6 AWG single conductor cable 600V insulation will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for labor, materials and equipment and incidentals required to finish the work, complete and accepted.

BID ITEM NO. 7: 14 AWG CONDUCTOR CABLE

The quantity of 14 AWG conductor cable will be measured by the number of linear feet actually installed, complete as indicated on the Plans or otherwise directed by the Engineer.

The unit price for this item shall constitute for compensation for labor, material and equipment and incidentals requested to finish the work, complete and accepted.

BID ITEM NO. 8: VIDEO DETECTION CABLE

The quantity of video detection cable will be measured by the number of linear feet actually installed, complete as indicated on the plan or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for labor, materials and equipment and incidentals required to finish the work, complete and accepted.

BID ITEM NO. 9: HANDHOLES

The quantity of handholes shall be measured by each for the number of handholes installed, complete as indicated on the plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for all materials, labor, tools and equipment including concrete, ground wire, grounding clamps and support grips, ground rods, gravel, cast iron frame and cover, excavation and backfill, and incidentals required to finish the work, complete and accepted.

BID ITEM NO. 10: CONDUIT UNDERGROUND

The quantity of conduit underground will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for furnishing all materials, tools and labor including fittings, couplings, saw cutting pavements, pull rope, excavation and backfill, Class B bedding, restoration of existing ground surfaces including all materials necessary for such restoration, testing, and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 11: CONDUIT UNDER EXISTING PAVEMENT

The quantity of conduit under existing pavement will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for furnishing all materials, tools and labor including fittings, couplings, saw cutting pavements, pull rope, excavation and backfill, Class B bedding, restoration of existing pavements and sidewalks, including all materials necessary for such restoration, testing, restoration of pavement markings, and all incidentals requested to finish the work, complete and accepted.

BID ITEM NO. 12: CONDUIT OVERHEAD

The quantity of overhead will be measured by the number of linear feet actually installed, complete as indicated on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full compensation for furnishing all materials, equipment, tools and labor, including fittings, couplings, pull wire and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 13: DUAL MAST ARM (50'X45') GALVANIZED STEEL TRAFFIC SIGNAL POST AND FOUNDATION STD. 19.2.0

The quantity of dual mast arm (50'x45') galvanized steel traffic signal post and foundation will be measured by each for the number of items furnished and installed.

The unit price for this item shall constitute full compensation for furnishing all materials, design, equipment, tools and labor including foundation and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 14: TRAFFIC SIGNAL STD., 8 FOOT, STD. 19.4.0 ALUMINUM PEDESTAL AND FOUNDATION

The quantity of Traffic Signal Std., 8-foot Std 19.4.0 aluminum pedestal and foundation will be measured by each for the number of items furnished and installed.

The unit price for this item shall constitute full compensation for furnishing all materials, equipment, tools and labor including foundation and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 15: TRAFFIC SIGNAL STD., 10 FOOT, STD 19.4.0 ALUMINUM PEDESTAL AND FOUNDATION

The quantity of traffic signal Std., 10-foot, Std. 19.4.0 aluminum pedestal and foundation will be measured by each for the number of items furnished and installed.

The unit price for this item shall constitute full compensation for furnishing all materials, design, equipment, tools and labor including foundation and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 16: YUNEX M60, NEMA TS-2, Type 1 8 PHASE ACTUATED CONTROLLER INCLUDING FMU, CABINET AND FOUNDATION

The quantity of 8 phase actuated controller, cabinet and foundation will be measured by the number of units installed complete in place.

The unit price for this item shall constitute full compensation for all labor, materials, tools, and equipment, including mounting hardware, foundations, concrete work pad, ground wire, ground rod, field monitoring unit (FMU), malfunction management unit (MMU), bus interface unit (BIU), detector racks, programming and all required tests, appurtenances, and all incidentals required to finish the work, complete in accordance with RIDOT standards and accepted.

BID ITEM NO. 17: METER SOCKET WITH MANUAL BY-PASS

The quantity of meter socket with manual by-pass will be measured by each for the number of units installed.

The unit price for this item shall constitute full compensation for all labor, materials, tools and equipment and incidentals required to finish the work, complete and accepted.

BID ITEM NOS. 18: ACCESSIBLE PEDESTRIAN DETECTOR-PUSH BUTTON WITH SIGN

The quantity of accessible pedestrian detector push button with sign will be measured by each for the number of units installed.

The unit price for this item shall constitute full compensation for all labor, materials, tools and equipment, including ADA-compliant push buttons and housings, wiring, pedestrian signs, mounting and installation hardware, furnishing and installation of accessible pedestrian detector control units, all programming, configuration, testing required before and after installation of pedestrian detectors in the field, and all incidentals required to finish the work, complete and accepted.

BID ITEM NOS. 19: INTERSECTION WIDE 360 DEGREE VIDEO DETECTION SYSTEM – AXIS M4318-PLVE PANORAMIC CAMERA

The quantity of intersection wide 360 degree video detection camera will be measured by each for the number of units installed.

The unit price for this item shall constitute full compensation for all labor, materials, tools and equipment, including all cables, connections, mounting and camera positioning and orientation, detection zone setup, programming of the system and compliance testing, and include all necessary software and hardware to allow the end user to program, setup, and/or modify detection zones within the video camera image.

BID ITEM NO. 20: VIDEO DETECTION PROCESSOR UNIT – CURRUX VISION ITS VIDEO DETECTION SYSTEM EQUIPMENT

The quantity of video detection processor unit and equipment will be measured by each for the number of units installed.

The unit price for this item shall constitute full compensation for all labor, materials, tools and equipment, including required connections and interface setup for a fully functional video detection system with SDLC connector, USB, LAN and WAN RJ-45 interface ports

BID ITEM NO. 21: VEHICULAR AND PEDESTRIAN SIGNAL HEADS

The quantity of vehicular and pedestrian signal heads will be measured by each for the number of units installed.

The unit price for this item shall constitute full compensation for all labor, materials, tools and equipment, including mounting hardware, visors, backplates, safety chains, lamps, LED modules, and all incidentals required to finish the work, complete and accepted.

BID ITEM NO. 22: PAVEMENT MARKINGS

The quantity of white final epoxy resin pavement marking to be paid for under the appropriate subdivision of this item shall be the actual length (linear foot) of lines furnished and installed complete as indicated on the Plans or as otherwise directed by the Engineer.

The contract unit prices shall include all material, labor, equipment and all other incidentals required to finish the work, complete and accepted by the Engineer.

BID ITEM NO. 23: REMOVE PAVEMENT MARKINGS

The quantity of pavement markings to be removed for under this item will be measured by the number of linear feet removed as shown on the Plans or as otherwise directed by the Engineer.

The unit price for this item shall constitute full and complete compensation for all labor, materials and equipment and all other incidentals required to finish the work, complete and accepted by the Engineer.

BID ITEM NO. 24: TRAFFIC PROTECTION

The work for the section shall be paid for at the Lump Sum Price under Item No. 24 Traffic Protection.

Traffic Protection will be paid for at the contract lump sum bid price as listed in the contract. The lump sum bid price shall include all labor, materials, signs, barricades, barrels, lights, traffic cones, equipment, including installation and removal of the devices from their initial locations, handling, maintaining, transporting and relocating said devices to storage or to subsequent intermediate locations at which they are to be used for traffic control, and all other incidentals required to finish the work, complete and accepted by the Engineer and Owner.

The Contractor shall supply all required supervision, material, equipment, and labor.

BID ITEM NO. 25: MOBILIZATION/DEMobilIZATION

The work for the section shall be paid for at the Lump Sum Price under Item No. 25 Mobilization/Demobilization.

The Mobilization will be paid for at the contract lump sum price, to be included in the estimate. The lump sum price bid shall include all preparatory work and operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, for the establishment of all Contractor's facilities necessary for work on the project and all other work and operations which must be performed or for costs which must be incurred prior to beginning work. Demobilization shall include, but is not limited to moving out of personnel and equipment, clean worker area, and removal of debris and rubbish. Demobilization shall include all costs incurred or to be incurred in the general demobilization of personnel, equipment, and material at the conclusion of the work. All materials and equipment furnished under this item shall remain the property of the Contractor and shall be maintained by the Contractor.

The Contractor shall supply all required supervision, material, equipment, and labor.

BID ITEM NO. 26: POLICE DETAIL ALLOWANCE

A maximum unit price with a contract allowance has been established to compensate the Contractor for Police Detail services including vehicle. The unit price shall only be used to compensate the Contractor for invoices received directly from the police department for services provided to direct traffic during construction. The Contractor is responsible for all scheduling of Police Detail service during construction.

Police officers shall wear regulation uniforms and should be regular, reserve or special officers of the communities in which they serve.

High-visibility safety apparel should be worn by all officers providing traffic control. The apparel background (outer) material color shall be either fluorescent orange-red or fluorescent yellow-green, and the retro-reflective material shall be either orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and shall be visible at a minimum distance of 1,000 feet. The retro-reflective safety apparel shall be designed to clearly identify the wearer as a person.

Services of “Police Detail” will be measured for payment by the number of hours for each person rendering services with a police vehicle in accordance with directions of the Owner or Engineer. Police Details shall be used on primary roads. The use of Police Details on secondary roads shall be utilized only if required by Police Department, Owner, or Engineer. This is to include, however, only such Police as are employed within either the limits of the construction right-of-way for the project, upon detours stipulated in the Contract; or upon detours ordered by the Engineer. Police furnished by the Contractor for continued use of a detour, bypass, secondary road or temporary traffic control beyond the period for which the Engineer deems such police necessary to the proper completion of the project, or at locations where traffic is unnecessarily restricted by the Contractor’s method of operation will not be measured for payment.

The bid price includes all supervision, labor, equipment, coordination, material, police vehicle and any incidental costs to complete the work.

The Work of this section shall be paid for at the Unit Price per Hour per officer with police vehicle under Item No. 26 with the reference contract allowance to be billed against for these services.

The Unit Bid price maximum and contract allowance estimated for “Police Detail” services has been established and is shown on the Bid Form.

END OF SECTION 01025

SECTION 01030**SPECIAL REQUIREMENTS****PART 1 GENERAL****1.01 MATERIALS**

Steel, aggregate, soils, Portland cement concrete and bituminous concrete utilized in construction of the Project shall be obtained from Rhode Island Department of Transportation approved sources and sampled and tested by personnel certified by either the Northeast Transportation Training and Certification Program, the National Institute for Certification of Engineering Technologies or American Concrete Institute, whichever may be applicable for the materials being sampled and tested. All steel used in permanent placements shall comply with the Buy America Requirements.

The Contractor must provide the Owner and Engineer with certificates of compliance and mill certifications for all materials in conformance with the Rhode Island Department of Transportation Master Materials Testing Schedule. Manufacturer certificates of compliance must accompany each shipment of product and must be received and accepted by the Owner or Engineer prior to incorporating the product into the work. The Contractor will not be compensated for items where a certificate of compliance is not received.

1.02 TESTING AND INSPECTION

All materials used in the construction of the project shall be new and of current manufacture. All materials and construction may be subject to inspection and testing by a firm hired by the Owner.

All samples shall be random samples and all sampling and all testing shall meet the requirements of 23 CFR Part 637, Construction Inspection and Approval.

1.03 WORK WITHIN STATE RIGHT-OF-WAYS

If construction of the project requires any work within a Rhode Island State Highway right-of-way, in accordance with 23 CFR 635.105, the Contractor must notify the Owner, Engineer and Rhode Island Department of Transportation at least five (5) days in advance of any proposed activity in a State right-of-way.

1.04 PREVAILING WAGE RATE CERTIFICATION

The Contractor must submit a certification that prevailing wage (Davis Bacon) rates have been paid during construction with each invoice. The certifications will be subject to review and approval by the Owner, Engineer and Rhode Island Department of Transportation.

1.05 CONTRACTOR INVOICES

The Contractor must submit invoices with a cover letter signed by a duly authorized agent of the Contractor, containing the following language and provisions:

“I hereby certify that the materials and work for which payment is being requested meets the requirements of the contract documents and approved change orders in all respects, except as noted below. This certification is made in full cognizance of the federal false Statements provision under United States Code, title 18, section 1020, and I am duly authorized to certify on behalf of the insert Contractor’s legal name.”

1.06 MAINTAINENCE OF RECORDS

The Contractor must maintain all records pertaining to this project for a period of at least three (3) years from the date of final payment and closure of all pending matters.

1.07 DIMENSIONS OF EXISTING STRUCTURES

Where the dimensions and locations of existing structures are of critical importance in the installation or connections of new work, the Contractor shall verify such dimensions and locations in the field before the fabrication of any material or equipment which is dependent on the correctness of such information.

1.08 OCCUPYING PRIVATE PROPERTY

The Contractor shall not enter upon nor occupy with men, equipment or materials any property outside of the public highways or Owner's easements, except with the written consent of the property owner or property owner's agent.

1.09 EXISTING UTILITY LOCATIONS - CONTRACTOR'S RESPONSIBILITY

- A. The Contractor shall be responsible for having the utility companies locate their respective utilities on the ground prior to construction.
- B. The Contractor shall, at least seventy-two (72) hours, exclusive of Saturdays, Sundays and holidays, prior to construction in the proximity of water, sewer, telephone, gas, cable television and electric utilities, notify the utilities concerned by calling "DIG SAFE" at telephone number: 1-888-344-7233.

- C. In addition to DIG-SAFE notification, specific advanced notification is required for RI Energy relating to any work in the vicinity of the existing gas vaults adjacent to Hopkins Hill Road at the intersection. Coordination with the following RI Energy representatives will be necessary for any excavation within 200 feet of the gas vault system to coordinate a construction monitoring program;
- James Paulette, Principal Engineer
jmpaulette@rienergy.com
(401) 465-8580
 - Jason Costa, I&R Inspector
jecosta@rienergy.com
(781) 290-3515
- D. The Contractor shall coordinate all work involving utilities and shall satisfy himself as to the existing conditions of the areas in which he/she is to perform his/her work. He/she shall conduct and arrange his work so as not to impede or interfere with the work of other contractors working in the same or adjacent areas.

1.10 COORDINATION OF WORK

The Contractor shall be responsible for coordinating his/her own work as well as that of any subcontractors. He/she shall be responsible for notification of the Engineer when each phase of work is expected to begin and the approximate completion date.

1.11 TIME FOR COMPLETION OF CONTRACT

The time for completion of this contract is stipulated in the Bid Form. The Bidder shall base his bid on completing the proposed work by the completion date stipulated in Section 00500, AGREEMENT.

1.12 WATER FOR CONSTRUCTION PURPOSES

If water is required and is not available from the Town's water distribution system, the Contractor shall supply water at no additional cost to the Owner.

1.13 COMPLIANCE WITH PERMITS

- A. The Contractor shall perform all work in conformance with requirements of the Permits which appear in Section 01067, PERMITS.

1.14 CUTTING, FITTING, AND PATCHING

- A. The Contractor shall do all cutting, fitting, or patching of his/her work that may be required to make its several parts come together properly and fit it to receive or be

received by work of other Contractors, as shown upon or reasonably implied by the drawings and the specifications for the completed structure, including all existing work.

- B. The Contractor shall not endanger any work by cutting, digging, or otherwise and shall not cut or alter the work of any other Contractor, without the consent of the Engineer.
- C. All holes or openings required to be made in new or existing work, particularly at conduits, or other penetrations not covered by escutcheons or plates shall be neatly patched. All such holes shall be made completely watertight as approved by the Engineer.
- D. Size and locations of holes required in steel, concrete, or other structural or finish materials for piping, wiring, ducts, etc., which have not been located and detailed on the drawings shall be approved by the Engineer prior to layout and cutting thereof. All holes shall be suitably reinforced as required by the Engineer.
- E. Workmanship and materials of patching and repair work shall match the adjacent similar work and shall conform to the applicable sections of the specification. Patches and joints with existing work shall provide, as applicable in each case, visual, structural, and waterproofing continuity.

1.15 CONTRACTOR'S REPRESENTATIVE

The Contractor shall designate a representative who will be available to respond to emergency calls by the Owner at any time day and night and on weekends and holidays should such a situation arise.

1.16 VISUAL RECORDING

Before beginning construction, the Contractor shall make a color video (DVD format) recording along the entire work area. One (1) complete recording, for the entire project area, shall be furnished to the Engineer prior to the start of the work. The visual recording shall be identified by street name, as applicable, and station.

1.17 HOURS OF CONSTRUCTION ACTIVITY

The Contractor shall conduct all construction activity between 7:00 a.m. and 5:00 p.m., Monday through Friday. No construction work shall be allowed on Saturdays, Sundays or Holidays without written authorization from the Owner.

1.18 CONSTRUCTION CREWS

The Contractor shall not increase the number of construction crews assigned to the work without providing one (1) week advance notice to the Owner and Engineer.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01030

SECTION 01067

PERMITS

PART 1 GENERAL

1.01 GENERAL

- A. The Owner has or will obtain and pay for the permits listed below, which are required for this project.
 - 1. Permits by Owner: N/A

- B. The Contractor shall obtain and pay for all other permits required, as defined under the Permits subsection of Section 00700, GENERAL CONDITIONS. The Contractor shall specifically obtain and pay for the following permits which are required for this project:
 - 1. Electrical connection permit from Rhode Island Energy.
 - 2. Town of Coventry Road Opening Permit.

- C. The Contractor shall perform the work in accordance with the Contract Documents, including all of the aforementioned permits/order of conditions, and any applicable municipal requirements.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01067

SECTION 01110**HEALTH AND SAFETY PLAN****PART 1 GENERAL****1.01 GENERAL**

- A. Although there is no indication that hazardous materials are present at the project site, the Contractor shall take steps as described herein to be prepared for the possibility of a chance encounter.
- B. Prior to the start of work on the site, Contractor shall submit a site-specific health and safety plan, for record purposes only, prepared or reviewed by a Certified Industrial Hygienist, which includes consideration of all potential hazards at the site. The plan shall be submitted not more than fourteen (14) days after receipt of the written Notice to Proceed from the Owner. Work may not proceed at the project site until the Contractor's health and safety plan has been received by the Owner or Engineer.
- C. Contractor shall be cognizant of the minimum standards set forth in OSHA 29 CFR 1910.120. The health and safety plan shall include, but shall not necessarily be limited, to the following:
 - 1. Identification of Contractor's Site Safety Officer.
 - 2. Identification of Hazards and Risks Associated with Project.
 - 3. Contractor's Standard Operating Procedures, including Personnel Training and Field Orientation.
 - 4. Respiratory Protection Training Requirements.
 - 5. Levels of Protection and Selection of Equipment Procedures.
 - 6. Type of Medical Surveillance Program.
 - 7. Personal Hygiene Requirements and Guidelines.
 - 8. Zone Delineation of the Project Site.
 - 9. Site Security and Entry Control Procedures.
 - 10. Field Monitoring of Site Contaminants.
 - 11. Contingency and Emergency Procedures.

12. Listing of Emergency Contacts.

- D. Personal protective equipment required to provide the appropriate level of dermal and respiratory protection shall be determined based on the standards set forth in the Contractor's health and safety plan. The Owner or Engineer may conduct air monitoring for quality control purposes.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01110

SECTION 01300**SUBMITTALS****PART 1 GENERAL****1.01 SHOP AND WORKING DRAWINGS**

- A. As required by the General Conditions, the Contractor shall submit a schedule of shop and working drawings submittals.
- B. In accordance with the accepted schedule, the Contractor shall submit promptly to the Engineer, through its authorized resident representative at the job site, or by mail, attention: Contractor Shop Drawings, six (6) copies each of the shop and working drawings required as noted in the specifications, of equipment, structural details, and materials fabricated especially for this Contractor. Shop Drawings can be submitted electronically to the Owner and Engineer.
- C. Such drawings shall show the principal dimensions, weight, structural and operating features, space required, clearances, type and/or brand of finish shop coat, grease fittings, etc., depending on the subject of the drawings. When it is customary to do so, when the dimensions are of particular importance, or when so specified, the drawings shall be certified by the manufacturer or fabricator as correct for this Contract.
- D. All shop and working drawings shall be submitted to the Engineer by and/or through the Contractor, who shall be responsible for obtaining shop and working drawings from its subcontractors and returning reviewed drawings to them. All shop and working drawings shall be prepared on standard size, 24-inch by 36-inch sheets, except those which are made by changing existing standard shop or working drawings. All drawings shall be clearly marked with the names of the Owner, Project, Contractor and building equipment or structure to which the drawing applies, and shall be suitably numbered.
- E. Only drawings which have been prepared, checked and corrected by the fabricator should be submitted to the Contractor by its subcontractors and vendors. Prior to submitting drawings to the Engineer, the Contractor shall check thoroughly all such drawings to satisfy itself that the subject matter thereof conforms to the Contract Documents in all respects. Shop drawings shall be reviewed and marked with the date, checker's name and indication of the Contractor's approval, and only then shall be submitted to the Engineer. Shop drawings unsatisfactory to the Contractor shall be returned directly to their source for correction, without submittal to the Engineer. Shop drawings submitted to the Engineer without the Contractor's approval stamp and signature will be rejected. Any deviation from the Contract Documents indicated on the shop drawings must be identified on the

drawings and in separate submittal to the Engineer, as required under Article 36 of the General Conditions.

- F. The Contractor shall be responsible for the prompt submittal and resubmittal, as necessary, of all shop and working drawings so that there will be no delay in the work due to the absence of such drawings.
- G. The Engineer will review the shop and working drawings as to their general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Corrections of comments made on the drawings during the review do not relieve the Contractor from compliance with requirements of the Contract Documents. The Contractor is responsible for: conforming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating its work with that of all other trades; and performing its work in a safe and satisfactory manner. The review of the shop drawings is general and shall not relieve the Contractor of the responsibility for details of design, dimensions, code compliance, etc., necessary for interfacing with other components, proper fitting and construction of the work required by the Contract and for achieving the specified performance.
- H. With few exceptions, shop drawings will be reviewed and returned to the Contractor within thirty (30) days of submittal.
- I. No material or equipment shall be purchased or fabricated especially for this Contract nor shall the Contractor proceed with any portion of the work, the design and details of which are dependent upon the design and details of equipment or other features for which review is required, until the required shop and working drawings have been submitted and reviewed by the Engineer as to their general conformance and compliance with the project and its Contract Documents. All materials and work involved in the construction shall then be as represented by said drawings.
- J. Two (2) copies of the shop and working drawings and/or catalog cuts will be returned to the Contractor. The Contractor shall furnish additional copies of such drawings or catalog cuts when he/she needs more than two (2) copies.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01300

SECTION 01710**CLEANING UP****PART 1 GENERAL****1.01 SCOPE**

- A. The Contractor should be familiar with Section 00700 GENERAL CONDITIONS as they pertain to this section.
- B. The Contractor must employ at all times during the progress of his/her work adequate cleanup measures and safety precautions to prevent injuries to persons or damage to property. The Contractor shall immediately, upon direction by the Owner or Engineer provide adequate material, equipment and labor to cleanup and make safe any and all areas deemed necessary by the Engineer.

PART 2 MATERIALS**2.01 MATERIALS USED FOR RESTORATION**

- A. All materials used for the restoration of damaged property shall be of equal or greater quality and shall be as approved by the Owner or Engineer, see Section 3.04.

PART 3 EXECUTION**3.01 DAILY CLEANUP**

- A. The Contractor shall clean up, at least daily, all refuse, rubbish, scrap and surplus material, debris and unneeded construction equipment resulting from the construction operations and sweep the area. The site of the work and the adjacent areas affected thereby shall at all times present a neat, orderly and workmanlike appearance.
- B. Upon written notification by the Owner or Engineer, the Contractor shall within twenty-four (24) hours clean up those areas which in the Owner's or Engineer's opinion are in violation of this section and the above referenced sections of the Specifications.
- C. If in the opinion of the Owner or Engineer, the referenced areas are not satisfactorily cleaned up, all other work on the project shall stop until the cleanup is satisfactory.

- D. Should the Contractor fail or neglect, after backfilling, to promptly remove all surplus materials, tools and other incidentals, or promptly do the required temporary or permanent paving when stipulated or ordered, the Owner may, after twenty-four (24) hours written notice, cause the work to be done and the cost thereof shall be deducted from any monies then or thereafter due the Contractor.

3.02 MATERIAL OR DEBRIS IN DRAINAGE FACILITIES

- A. Where material or debris has washed or flowed into or has been placed in existing watercourses, ditches, gutters, drains, pipes, structures, such material or debris shall be entirely removed and satisfactorily disposed of offsite during progress of the work, and the ditches, channels, drains, pipes, structures, and work shall, upon completion of the work, be left in a clean and neat condition.

3.03 REMOVAL OF TEMPORARY BUILDINGS, STRUCTURES, AND EQUIPMENT

- A. On or before completion of the work, the Contractor shall, unless otherwise specifically directed or permitted in writing, tear down and remove all temporary buildings and structures built by him/her; shall remove all temporary works, tools and machinery or other construction equipment furnished by him/her; shall remove all rubbish from any grounds which he/she has occupied; shall remove all erosion controls used for trapping sediment; and shall leave the roads and all parts of the property and adjacent property affected by his/her operations in a neat and satisfactory condition.

3.04 RESTORATION OF DAMAGED PROPERTY

- A. The Contractor shall restore or replace, when and as directed, any property damaged by his/her work, equipment or employees, to a condition at least equal to that existing immediately prior to the beginning of operations. To this end the Contractor shall do as required all necessary roadway or driveway, walk and landscaping work. Materials, equipment, and methods for such restoration shall be as approved by the Owner or Engineer.

3.05 FINAL CLEANUP

- A. Before acceptance by the Owner, the Contractor shall perform a final cleanup to bring the construction site to its original or specified condition. This cleanup shall include removing all trash and debris off of the premises. Before acceptance, the condition of the site shall be approved by the Owner or Engineer.

END OF SECTION 01710

DIVISION 2
SITE WORK

SECTION 02000**SUPPLEMENTAL STANDARDS AND SPECIFICATIONS****PART 1 GENERAL**

1.01 Technical Specification 02000 references the RIDOT Specification Book for all materials in the contract for which there is no project specific specification. Contractors are required to select materials from the “RIDOT Approved Material List: For Transportation Construction Projects, Dated June 2024”, which is available from their website:

https://www.dot.ri.gov/documents/doingbusiness/materials/approved_materials.pdf

1.02 All bituminous concrete pavement mixes must be from the latest Rhode Island Department of Transportation (RIDOT) List of Approved Bituminous Concrete Mixes. All asphalt, ready-mix concrete, and precast concrete production plants must be approved by the RIDOT.

PART 2 SUPPLEMENTAL STANDARDS

In addition to the technical specifications, the technical aspects of proposed construction shall be in accordance with the following documents:

1. the *Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, February 2026 Edition*, with all revisions, *exclusive of Sections 102, 103, 104, 105, 106, 107, 108, 109 and 938*.
2. the *Rhode Island Department of Transportation Standard Details*, with latest revisions.
3. the *Rhode Island Soil Erosion and Sediment Control Handbook, Issued 1989, Revised 2014, Updated 2016* prepared by the Rhode Island State Conservation Committee.

All Measurement and Payment shall be in conformance to Section 01025.

Any reference to the "Department" shall be replaced with the term "Owner."

END OF SECTION 02000

SECTION 02452**TRAFFIC PROTECTION****PART 1 GENERAL****1.01 SCOPE**

- A. This section covers furnishing and installing traffic control signs and other devices.
- B. This section specifies the general requirements for traffic regulation, minimum performance criteria for maintenance and protection of traffic, road closures, and coordination with other parties for the duration of the work.
- C. The Contractor shall be responsible for the maintenance and protection of traffic on public roadways impacted by its operations for the duration of the work. The Contractor shall bear all costs for designing, furnishing and maintaining traffic control facilities for the duration of the work.

1.02 SYSTEM DESCRIPTION

- A. The Contractor shall furnish all construction signs and personnel deemed necessary by and in accordance with the latest edition of Part 6 of the Manual on Uniform Traffic Control Devices (MUTCD) as published by the U.S. Department of Transportation.

1.03 REFERENCE STANDARDS

- A. Federal Highway Administration, Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, 11th Edition, dated December 2023.
- B. Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, February 2025 Edition, including all revisions.
- C. Rhode Island Department of Transportation Standard Details, including all addenda.

PART 2 PRODUCTS**2.01 TRAFFIC DEVICES AND MARKINGS**

- A. Traffic devices and markings shall conform to Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction Divisions I and III and the FHWA Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, 11th Edition, dated December 2023.

2.02 TRAFFIC CONTROL FACILITIES

- A. Temporary traffic control equipment shall be furnished by the Contractor at the start of construction, adjusted as needed throughout the course of the work and removed or restored at the completion of the work and shall include, but shall not be limited to:
 - 1. Traffic barriers, signage, re-striping, work zone warnings and detours;
 - 2. Temporary paved public roadways, traffic lanes and detours;
- B. The Contractor shall restore all public roadways and traffic control devices to a condition equal to, or better than that existed prior to the work.

PART 3 EXECUTION

3.01 INSTALLATION

- A. The Contractor shall erect barricades, barrier fences, traffic signs, and other traffic control devices as required by the MUTCD, or as directed by the Owner or Engineer, to protect the work area from traffic, pedestrians and animals.
- B. The Contractor shall relocate barricades, signs and other devices as necessary as the work progresses.
- C. Unless extended protection is required for a specific area, when the work has been completed, all temporary warning and regulatory devices used by the Contractor shall be removed so that traffic can move unimpeded through the area.

3.02 MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL DEVICES

- A. The Contractor shall not close any State or Town streets or rights-of-way without prior written permission from the Rhode Island Department of Transportation and/or the Town of Coventry. The Contractor shall maintain existing traffic flows to all areas adjacent to the work areas. The Contractor shall not close or obstruct any portion of a street, road, lane, drive or private way that shall be rendered unsafe by the Contractor's operations. Instead, the Contractor shall make such repairs or provide such temporary ways or guards as shall be acceptable to the proper authorities.
- B. Streets, roads, lanes, private ways, and walks not closed, shall be maintained passable and safe by the Contractor, who shall assume and have full responsibility for adequacy and safety of provisions made therefore.
- C. The Contractor shall, at least seven (7) days in advance, notify the Owner and Engineer in writing if the closure of a street, road, lane, drive or private way is

necessary and at least two (2) days in advance, notify the Police, Fire and School Departments in writing, with a copy to the Engineer. The Contractor shall cooperate with the Police Department in the establishment of alternate routes and shall provide adequate detour signs, plainly marked and well lighted, in order to minimize confusion.

- D. Throughout the duration of the work, the Contractor shall maintain all temporary and permanent traffic control facilities, signs, barricades and other protective devices in a sturdy, clean, legible condition. The Contractor shall cover or remove signs not in use. Maintenance of devices will include repairing; adjusting; washing; repainting, and the re-application of reflective sheeting.
- E. Care shall be exercised such that weeds, shrubbery, and construction materials, equipment, and spoils do not obscure the message of any sign, light, or barricade.
- F. No defective and/or damaged devices shall be installed. Devices showing defects or damage shall be either repaired or removed and replaced at no additional cost to the Owner.
- G. Any and all costs, including Owner and Engineer costs, of fines levied for violation of any permit requirements which are a direct result of Contractor's performance or non-compliance with issued permits or applicable regulations shall be paid by Contractor at no cost to the Owner.

3.03 PARKING

- A. The Contractor shall be responsible for managing employee parking throughout the duration of the Contract. The Contractor shall secure and establish parking at the work site in a legal and safe manner that does not adversely affect traffic flows on public roads, private parking areas or private ways.

3.04 ROAD MAINTENANCE AND SITE ACCESS

- A. The Contractor shall establish entrances and exits to the site that are approved by the Owner or Engineer.
- B. The Contractor shall install and maintain wheel wash facilities at all site exits.
- C. The Contractor shall retain the services of a street sweeper to remove all muck and dust tracked onto public roadways due to its operations. Sweeping shall be conducted to the satisfaction of the Engineer in accordance with Section 01710.

END OF SECTION 02452

SECTION 03000**FIELD MONITORING UNIT (FMU)****PART 1 DESCRIPTION****1.01 SCOPE**

- A. The work under this item shall conform to the applicable requirements of Section T.12 “Traffic Signal Controllers and Cabinets” of the Standard Specifications and the following additions. This item shall consist of furnishing and installing a Field Monitoring Unit (FMU) and software, as well as all needed accessories required for a full and complete installation, including but not limited to power adapters, Ethernet cables, and interface cables, as described herein.

1.02 REFERENCE STANDARDS

- A. Federal Highway Administration, Manual on Uniform Traffic Control Devices (MUTCD) for Streets and Highways, 11th Edition, dated December 2023.
- B. Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, February 2025 Edition, including all revisions.
- C. Rhode Island Department of Transportation Standard Details, including all addenda.

PART 2 MATERIALS AND STANDARDS

This work shall consist of furnishing, installing, configuring, and testing an FMU. The FMU shall be manufactured by Applied Information (AI), Model AI-500-085-02 FMU with 4G Video and 4-Port Ethernet Switch that meets the following requirements:

- A. The work under this item specifies the requirements for the FMU. The FMU shall operate independent of the brand/type of intersection controller, video or thermal detection system and battery backup system (if applicable) deployed in the traffic cabinet.
- B. The FMU shall function correctly between -34 degrees C and +74 degrees C.
- C. The FMU shall be provided with appropriately rated connectors that allows the FMU to be exchanged by unplugging connectors, without tools.
- D. The Contractor shall develop a test plan that fully demonstrates that all requirements as defined in these specifications have been met. The test plan shall define in detail each test, and the expected result of each test. The test plan shall be submitted as

part of the shop drawings and shall be subject to revisions based on review and comment by the TOWN and the design consultant. Where applicable, the Contractor shall provide manufacturer certificates of compliances to verify that the unit supplied meets a specific requirement. The test plan shall be included as part of the shop drawing submittal package.

- E. The FMU shall be fully wired and integrated to the cabinet to provide monitoring and logging functions related to Controller and cabinet faults and or alarms as required by these specifications.
- F. The FMU shall be configured by the Contractor to broadcast SPaT messages via the FMU manufacture mobile application. All configuration of the Geo Fences shall be completed by the Contractor including the setup of any informational messages that the Engineer or TOWN requests.
- G. The FMU shall be wired directly to the cabinet.
- H. The FMU shall have an internal cellular modem running at 4G LTE.
 - o The Cellular modem shall be designed to be replaced / upgraded to 5G service when available.
 - During the period of the Connectivity and Service Agreement, the manufacturer shall supply a 5G or newer cellular modem (when available) to be installed by the TOWN with tech support to be provided by the manufacturer.
- I. The FMU shall incorporate an integrated GPS and cell modem.
- J. The configuration of the FMU shall be accomplished by accessing the internal web server with a browser. It shall be possible to configure the FMU without any special software.
- K. The FMU shall be powered via a standard 120 VAC input power.
- L. The FMU shall allow for the routing of the controller configuration packets to and from the controller by Ethernet for any type of controller utilized by the TOWN. In this way it shall be possible to configure the controller and utilize the controller specific software to interrogate the controller.
- M. The FMU shall be configured by the Contractor to allow for the remote display and control of the connected traffic signal controller via the FMU manufacturer cloud hosted web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.

- N. The FMU shall be configured by the Contractor to provide access to view the video single point detection camera system, including the video image of each approach, via the FMU manufacturer cloud hosted web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
- O. The FMU shall provide the VPN tunnel between the traffic signal controllers and adaptive system and ATMS, as such the FMU will serve as the primary form of communication for adaptive signal control.
- P. The FMU shall be connected to the traffic signal controller to provide for GPS time sync pulse for the traffic signal internal clock, or as directed by the TOWN or the Engineer.
- Q. The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL of where the FMU management software is hosted.
- R. The FMU shall include Ethernet communications via an Ethernet Port with RJ45 connector.
- S. The FMU shall include an integrated four port Ethernet switch.
- T. The FMU shall be supplied and installed to include weatherproof antennas to support operations.
- U. The FMU shall be supplied, installed, and configured by the Contractor with map display management software that has the following features:
 - o The FMU shall include a scrollable, zoomable map display, with the intersections and other monitored devices shown as representative icons on the map. The map shall include the ability to see the intersections using Google Streetview or similar.
 - o The alarm status of the intersection shall be clearly indicated on the icon on the map so that the user can see at a glance which intersections are in an alarm condition.
 - o The map display shall also include a list of intersections, with the number and priority of alarms indicated on the list. Intersections in high priority alarm shall be moved to the top of the list, followed by medium priority, low priority and then finally by intersections not in an alarm state.
 - o The icons shall dynamically change to be able to clearly indicate if an intersection is offline.
 - o Clicking on the icon on the map shall expose a display window with the current parameters of the intersection shown.

- o The default map display position and zoom shall be configurable by user so that the user's view will default to show the intersections that the user is responsible for managing.
- V. The FMU shall be supplied, installed and configured by the Contractor with intersection detail display management software that has the following features:
- o It shall be possible to drill down, either from the map icon or from the list to a device level detail for the intersection. The following constitutes the minimum level of parameters that shall be displayed:
 - The alarm status, with priority indicated, and a text description of the alarm (if an alarm is present for this device).
 - The time since the last communication with the device.
 - The following parameters (real time values, minimum for the day values, maximum for the day values, and average for the day values).
 - The AC mains voltage (value)
 - The battery back-up voltage (value)
 - The cabinet temperature (value)
 - The cabinet humidity (value)
 - The presence of AC power (OK or Fail)
 - The flashing status of the intersection (OK or Flashing)
 - Stop Time status (OK or Stop Time Active)
 - The cabinet door status (Open or Closed)
 - The intersection fan status (Fan on or Fan off)
 - It shall be possible to view graphs of each of the value parameters in graphical form over the most recent two-week period. This includes real time graphs of:
 - The AC mains voltage
 - The battery back-up voltage
 - The cabinet temperature
 - The cabinet humidity
- W. The FMU shall be supplied, installed and configured by the Contractor with a diagnostics and log display management software that meets or exceeds the following:
- o From the device level detail within the FMU management software, it shall be possible to drill down to get the raw data; the error logs; and the communications logs to allow a technician to fault-find problems.
 - o It shall be able to filter the logs by Device; by Device Type and/or by Group as well as between dates.
 - o It shall be able to print these selected logs to a local printer or a PDF file.

- o It shall be able to export these logs to Excel on the local computer for further analysis.
- X. The FMU shall be supplied, installed and configured by the Contractor with an alarm management software that meets or exceeds the following:
- o The FMU management software shall have a comprehensive alarm generation capability.
 - o It shall be able to configure alarms to be generated on any parameter that indicates a value that is out of tolerance, including analog values, digital values and enumerated values.
 - o Alarms shall be configurable to be of Low, High or Critical Priority.
 - o The alarm priority shall be displayed throughout the FMU management software, on all displays using color codes such as red-critical; yellow-high; and amber-low to indicate the priority of the alarm.
 - o The current active alarms shall be accessible for viewing via an expandable window, to observe which alarms are active and when the alarm occurred. The highest priority alarms shall rise to the top of the list.
- Y. The FMU shall be supplied, installed and configured by the Contractor with alerts management software that meets or exceeds the following:
- o The FMU management software shall have a comprehensive alerting function to enable the response personnel to be notified when an abnormal situation has occurred.
 - o It shall be able to configure alerts to one or more personnel for each alarm. This will cause, as selected, an SMS and/or an email to be sent to the person when an alarm occurs.
 - o The alert notification system shall be configurable by the system user to optionally send via email and/or via SMS message when an alarm clears.
 - o The SMS and email alerts shall be issued within 30 seconds of the occurrence of an event which results in an alert being issued.
- Z. The FMU shall be supplied, installed and configured by the Contractor with connectivity and server management software that meets or exceeds the following:
- o The contractor shall supply the FMU with the FMU manufacturer's 10-year options for Connectivity and Service, as part of the purchase price. The activation of the cellular data plan shall not start until so directed by the Engineer. The Connectivity and Service agreement shall include at a minimum:

- Cellular Connectivity
 - No cellular overage charges
 - Video Streaming
 - Extended warranty on the hardware for the period of the Connectivity and Service
 - Agreement
 - Over-the-air software updates
 - Over-the-air security updates
 - Remote Front Panel of the connected traffic signal controller SPaT Message broadcast to mobile device application
- AA. The FMU shall be supplied with the unlimited video/data streaming service.
- BB. The FMU shall be configured with Traffic Signal Controller remote front panel access.
- CC. The FMU shall be configured to supply streaming video from the video single point video detection system. The FMU manufacturer shall provide a web page interface to access and retrieve stored video files when paired with a video detection system.
- DD. At the time of the shop drawing submittal, Contractor shall supply a detailed list of available FMU functions for the TOWN's consideration. The returned submittal will identify which functions shall be enabled on the field deployed FMUs.

The manufacturer shall provide 2 complete sets of hard copy maintenance/user manuals for the installed equipment. Additionally, an electronic copy of the manuals shall be supplied on a USB hard drive to be left in each individual cabinet, and electronic copies shall also be provided in the shop drawing submittal. These manuals shall have complete set-up, maintenance and troubleshooting procedures presented in an organized format.

The Contractor shall submit manufacturer's shop drawings, layout drawings and specifications for equipment and appurtenances for the approval of the Engineer, in accordance with **Subsection 105.02; Plans and Shop Drawings**, of these Specifications.

The Contractor shall provide warranty and submit copies of manufacturer's warranties, in accordance with **Subsection T10.02.1 Warranties for Traffic Signal Systems**, of these Specifications.

The Contractor shall provide up to sixteen (16) hours of personnel training in the use of the FMU. The training schedule on the FMU will be TBD by the TOWN. The training may be required to be broken into two (2) separate groups at the discretion of the TOWN. The Contractor is to coordinate with the TOWN as to the exact location and time of the training. It is the responsibility of the Contractor to provide training manuals, class notes, and other instructional materials for up to 10 attendees at the training session. No training shall begin unless and until the final inspection

process indicates, in the opinion of the Engineer, that the FMU is sufficiently complete and operational such that training would be useful at the time.

PART 3 EXECUTION

3.01 CONSTRUCTION METHODS

- A. The Contractor shall configure and integrate the FMU to all ethernet capable devices in the Controller Cabinet (as applicable), including but not limited to the Traffic Signal Controller unit, MMU2, single point video detection system and the battery backup system (if applicable). All connections shall be encrypted VPN tunnels. The Contractor, at the discretion of the of the TOWN and RIDOT, shall connect the FMU to RIDOT ATMS systems via a secure VPN tunnel. The Contractor shall coordinate all configuration settings with the RIDOT DoIT, the Town of Coventry and the Engineer.

PART 4 MEASUREMENT AND PAYMENT

- 4.01 This item of work will not be measured for payment.

No separate payment will be made for this item. Costs for this item shall be included in the lump sum bid prices for installation of the traffic signal controller and cabinet and applicable items as listed in the Proposal.

END OF SECTION 03000

ATTACHMENTS

TRAFFIC SIGNAL PLANS

Centre of New England Boulevard at Hopkins Hill Road

(Prepared by Crossman Engineering, May, 2026)

GENERAL NOTES:

- ALL DISTURBED AREAS ARE TO RECEIVE 4" LOAM SOIL AND RESIDENTIAL SEED, OR AS NOTED ON THE PLANS.
- THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE AND UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE ANY EXCAVATION BEGINS IN ACCORDANCE WITH "DIG SAFE PROGRAM LAW" ENACTED BY THE R.I. LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY TOWN, STATE OR FEDERAL AGENCY THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- ALL REQUIRED AUTHORIZATION TO PERFORM WORK MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, A TOWN OF COVENTRY CURB OPENING PERMIT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE AND LOCAL REGULATIONS ARE STRICTLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
- ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
- WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR LABELS, DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL CONTRACT DOCUMENTS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT PRIOR TO THE INITIATION OF WORK. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE CONTRACT DOCUMENTS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
- ALL MILLINGS ARE TO BE REMOVED AND DISPOSED OF OFF THE SITE IN ACCORDANCE WITH STATE, FEDERAL, AND LOCAL REGULATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION WITH THE TOWN OF COVENTRY (SEWER, AND STORM), KENT COUNTY WATER AUTHORITY (WATER), WEST WARWICK WASTEWATER FACILITY (SEWER), RHODE ISLAND ENERGY, VERIZON, AND COX COMMUNICATIONS, AS REQUIRED.
- ANY DAMAGED EXISTING PIPE/STRUCTURE SHALL BE REPLACED IN KIND AND MATCH EXISTING HORIZONTAL AND VERTICAL LAYOUT.
- ALL PAVEMENT MARKINGS AND SIGNS ARE TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," (M.U.T.C.D.), LATEST EDITION.
- THE CONTRACT DOCUMENTS REPRESENT THE GENERAL SITE AND CONSTRUCTION REQUIREMENTS AND DOES NOT REPRESENT ALL WORK ITEMS, DETAILS, AND SPECIFICATIONS NECESSARY FOR CONSTRUCTION.
- ASPHALT EMULSION TACK COAT SHALL BE PLACED PRIOR TO INSTALLING SURFACE PAVEMENT. IT SHALL ALSO BE APPLIED TO VERTICAL PAVEMENT FACES BETWEEN ADJOINING PAVEMENT SECTIONS, INCLUDING DRIVEWAYS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND GRADES ON SITE PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY REPORT ANY DISCREPANCIES OR DEVIATIONS FROM THE CONSTRUCTION PLANS TO THE OWNER AND ENGINEER. THE CONTRACTOR SHALL ALSO REPORT ANY CONDITIONS UNCOVERED IN THE WORK THAT ARE NOT REFLECTED WITHIN THE PLANS.
- THE CONTRACTOR SHALL, UNDER THE DIRECTION OF THE OWNER, ESTABLISH CONSTRUCTION LIMITS ON THE SITE BY ACCEPTABLE VISIBLE MARKERS PLACED AT EYE LEVEL. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS. THE CONTRACTOR SHALL REMOVE ALL MARKERS WHEN DIRECTED BY THE OWNER.
- THE INTENTION OF THE OWNER IS TO MAINTAIN THE BOUNDARIES OF THE SITE IN ITS EXISTING CONDITION AND THEREFORE THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFINING THE WORK TO WITHIN THE CONSTRUCTION LIMITS.
- ALL EXISTING VEGETATION (TREES, SHRUBS, GRASSES, ETC.) TO REMAIN SHALL BE PROTECTED FROM INJURY. INDIVIDUAL TREES AND SHRUBS TO BE SAVED WITHIN THE DESIGNATED WORK AREA SHALL BE ADEQUATELY PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL REMOVE ALL PROTECTIVE BARRIERS AS DIRECTED BY THE OWNER.
- ALL EXISTING GRASSED AREAS NOT ADEQUATELY PROTECTED AND THEREFORE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SHOP DRAWINGS MUST BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER FOR ALL BITUMINOUS MIXES AND EROSION CONTROLS. ENGINEER OR OWNER APPROVAL IS REQUIRED PRIOR TO ORDERING.
- THE CONTRACTOR SHALL PROVIDE GRAVEL RAMPS AT THE CUT AND MATCH LINES AFTER PAVEMENT REMOVAL TO THE SATISFACTION OF THE OWNER OR ENGINEER.
- THE INSTALLATION OF NEW SURFACE PAVEMENT MUST OCCUR WITHIN 3 DAYS AFTER THE COMPLETION OF MILLING OPERATIONS OR PAVEMENT REMOVAL ON ANY SECTION OF ROADWAY.

TREE PROTECTION NOTE

PLANTS LISTED AS SAVE AND PROTECT SHALL BE REVIEWED BY A LICENSED ARBORIST OR AS DIRECTED BY OWNER. CUT BROKEN, DEAD OR INJURED BRANCHES ABOVE THE STEM COLLAR ON THE TRUNK OR LIMB. PRUNE ALL BROKEN ROOTS ON THE PLANT SIDE OF THE BREAK. PAINT CUTS OVER 3/4" IN DIAMETER AS DIRECTED BY ARBORIST. PRUNING SHALL NOT DEFORM OR OTHERWISE DESTROY THE TYPICAL SHAPE OR SYMMETRY OF THE PLANT, AND SHALL NOT REDUCE THE HEIGHT BY MORE THAN ONE-THIRD.

BITUMINOUS CONCRETE PAVEMENT WEATHER NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY THE ENGINEER AT LEAST TWENTY-FOUR (24) HOURS BEFORE PERFORMING ANY PAVING OPERATIONS. THE ENGINEER WILL VERIFY WHETHER THE WEATHER CONDITIONS ARE ACCEPTABLE OR NOT FOR THE PROPER HANDLING OR FINISHING OF THE BITUMINOUS MIXTURES. IF, IN THE OPINION OF THE ENGINEER, THE WEATHER CONDITIONS WILL PRODUCE A WET SURFACE, THEN THE ENGINEER WILL CONTACT THE CONTRACTOR TO CANCEL THE PAVING OPERATIONS. BITUMINOUS CONCRETE PAVEMENT SHALL NOT BE PLACED ON ANY WET SURFACE OR DURING RAIN.

TRAFFIC SIGNAL GENERAL NOTES

- BACK PLATES ARE REQUIRED ON ALL TRAFFIC SIGNAL HEADS AND SHALL BE INCLUDED IN THE PRICE OF THE SIGNAL HEAD.
- TRAFFIC CONTROLLER CABINET SHALL BE ORIENTED SO THAT THE CABINET DOOR IS FACING AWAY FROM THE ROADWAY, UNLESS OTHERWISE STATED ON PLANS.
- 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.
- ALL DELAY AND EXTENSION TIMES, AS CALLED FOR ON THE PLANS, FOR PROPOSED DETECTORS SHALL BE PROGRAMMED IN THE TRAFFIC SIGNAL CONTROLLER.
- 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. "BARE GROUND WIRE" WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PRICE OF PVC CONDUIT ITEMS.
- FINAL PLACEMENT OF SIGNAL HEADS, DETECTORS, STOP BARS AND CROSSWALKS TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION ACCORDING TO OBSERVED INTERSECTION CHARACTERISTICS BY THE ENGINEER.
- A 2-FOOT 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. PEDESTAL POLES SHALL BE PLACED AT THE BACK OF SIDEWALK.
- ALL FOUNDATIONS MUST HAVE CONES OR BARRELS BOLTED TO FOUNDATION BASES UNTIL ACTUAL POLE IS INSTALLED.
- ACCESS TO PEDESTRIAN PUSHBUTTONS SHALL MEET ADA REQUIREMENTS. ALL PEDESTRIAN PUSHBUTTONS SHALL BE ADA COMPLIANT WITH A 2" DIAMETER. SIGNS INSTALLED AT PROPOSED PEDESTRIAN PUSHBUTTONS SHALL BE MUTCD 2003 CODE R10-3B (LEFT OR RIGHT) AND SHALL BE INSTALLED SO THAT IT IS CLEARLY INDICATED WHICH CROSSING IS ASSIGNED TO EACH BUTTON.
- ALL LOOP ZONES SHALL BE CENTERED WITHIN EACH LANE AS DELINEATED, UNLESS OTHERWISE DIMENSIONED ON PLANS.
- TRAFFIC SIGNAL CONTROLLERS SHALL BE WIRED SO THAT ANY FUTURE FIRE PRE-EMPTION SHALL OVERRIDE MANUAL (PUSH BUTTON) OPERATION.
- ALL MATERIALS AND CONSTRUCTION SHALL BE PER THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- ALL PAVEMENT MARKINGS SHALL BE EPOXY RESIN. ALL PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED MARKINGS SHALL BE REMOVED.
- 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.
- ALL PROPOSED 360° VIDEO DETECTION CAMERAS SHALL BE AXIS M4318 PLVE PANORAMIC CAMERAS. THE CAMERAS SHALL BE CONNECTED USING CUSTOM FIBER OPTIC/POWER HYBRID CABLE APPROVED EQUIVALENT UNLESS SPECIFIED BY THE MANUFACTURER. ALL PROPOSED CAMERA LOCATIONS SHALL BE THOROUGHLY VETTED WITH THE FACTORY TRAINED LOCAL SUPPLIER AND/OR ACCOMPLISHED WITH THE CAMERA POSITIONING AND THE NUMBER OF ACTUAL CAMERAS PROPOSED (CAN VARY BY RANGE/DISTANCE OF DETECTION ZONES BASED ON CAMERA POSITIONING).

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION OR R.I.D.O.T. LICENSED FLAGMEN. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES, CHANNELING DEVICES AND LANE CLOSURES, ETC. SHALL BE IN CONFORMANCE WITH THE LATEST REVISIONS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.)
- TEMPORARY CONSTRUCTION SIGNS AND ALL APPLICABLE TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF WORK IN ANY AREA OPEN TO TRAFFIC.
- THE PRIVATE VEHICLES OF CONSTRUCTION WORKERS WILL NOT BE PARKED IN THE STATE OR TOWN RIGHT-OF-WAY.
- SIGN MOUNTINGS SHALL BE IN ACCORDANCE WITH THE R.I.D.O.T. SPECIFICATIONS FOR TEMPORARY CONSTRUCTION SIGNS.

ADA RAMP NOTES

- ALL FINISHED SURFACE COURSE PAVEMENT SHALL BE FLUSH WITH ALL ADA RAMPS AFTER FINAL COMPACTION.
- ALL FINISHED SURFACE COURSE PAVEMENT SHALL BE INSTALLED TO PREVENT PUDDLING AT ADA RAMPS.

STRIPING NOTES

- PROJECT-WIDE THE CONTRACTOR IS RESPONSIBLE TO REPLACE ALL EXISTING STRIPING THAT FALLS WITHIN THE LIMIT OF WORK THAT IS DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- EPOXY RESIN PAVEMENT MARKINGS SHALL CONFORM TO ALL R.I.D.O.T. SPECIFICATIONS. NEW EPOXY RESIN PAVEMENT MARKINGS SHALL BE PLACED ON THE FINAL SURFACE COURSE NO SOONER THAN TWO (2) WEEKS BUT NO LONGER THAN FOUR (4) WEEKS FROM THE COMPLETION OF EACH DAYS PAVING OPERATION.

SCREENED LOAM BORROW NOTE

THE CONTRACTOR'S BID PRICE SHALL INCLUDE THE INSTALLATION OF 4 INCHES OF SCREENED LOAM BORROW CONFORMING TO RIDOT STANDARD SPECIFICATION SECTION M.18-LANDSCAPING MATERIALS. EXISTING STOCKPILED LOAM MAY BE UTILIZED IF SCREENED AND THE FINAL MATERIAL MEETS ALL REQUIREMENTS OF SECTION M.18. ANY STOCKPILED OR SCREENED MATERIAL NOT MEETING THE REQUIREMENTS OF SECTION M.18 SHALL BE REMOVED AND DISPOSED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.

NEW SIDEWALK NOTE:

THE INSTALLATION OF THE CEMENT CONCRETE SIDEWALK (R.I. STD. 43.1.0) SHALL INCLUDE EXCAVATION OF THE EXISTING MATERIAL AND INSTALLATION OF NEW GRAVEL BORROW THAT CONFORMS TO THE REQUIREMENTS OF SUBSECTION M.01.02 OF THE R.I.D.O.T. SPECIFICATIONS.

STOCKPILED MATERIALS:

ALL REMOVED AND OR STOCKPILED CURBING AND COBBLESTONES NOT TO BE USED ON-SITE SHALL REMAIN THE PROPERTY OF THE TOWN OF COVENTRY, AND AT THE DIRECTION OF THE TOWN OR ENGINEER, SHALL BE DELIVERED TO THE DEPARTMENT OF PUBLIC WORKS FACILITY AT 1668 FLAT RIVER ROAD AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION NOTES

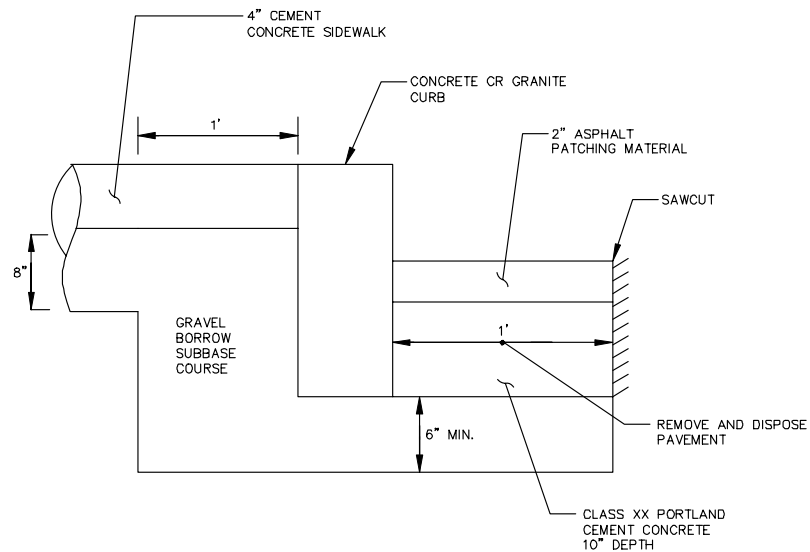
THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER AT LEAST 48 HOURS PRIOR TO START OF WORK. THE COORDINATION IS NECESSARY FOR THE ENGINEER TO SCHEDULE SITE INSPECTIONS. WORK PERFORMED WITHOUT INSPECTIONS BY THE ENGINEER MAY WARRANT COMPLETE REMOVAL AND REINSTALLATION AT THE CONTRACTOR'S SOLE EXPENSE.

LEGEND & ABBREVIATIONS

	EXISTING	PROPOSED
N/F	---	- PROPERTY LINE
A.P.	---	- ZONING SETBACK LINE
S.F.	---	- EXISTING CONTOUR
AC	---	- NEW CONTOUR
±	---	- STONE WALL
STY	---	- FENCE
W/F	---	- SEWER LINE
SHP	---	- DRAIN LINE
RET.	---	- WATER LINE
PEB.	---	- GAS LINE
FND.	---	- ELECTRIC LINE
RH/B	---	- UNKNOWN UTILITY MARKINGS
PK NAIL	---	- TELECOM LINES
FE	---	- CABLE LINES
RCP	---	- STEAM LINES
CLF	---	- CONDENSATE LINES
INV	---	- FIRE ALARM LINES
x 10.00	---	- SANITARY SEWER MANHOLE
x 15.00	---	- CATCH BASIN
●	---	- STORM DRAIN MANHOLE
○	---	- WATER GATE
D=	---	- GAS VALVE
□	---	- ELECTRIC MANHOLE
	---	- COMMUNICATION MANHOLE
	---	- SAWCUT AND MATCH PAVEMENT
	---	- GRADE TO DRAIN
	---	- LIMIT OF WORK

PLAN SYMBOLS

(BCD)	BITUMINOUS CONCRETE DRIVEWAY 3" BITUMINOUS CONCRETE, TYPE I-1 8" GRAVEL BORROW SUBBASE COURSE
(CW)	R.I. STD. 20.3.0 CROSSWALK
(CXX)	CLASS XX PORTLAND CEMENT CONCRETE (10" DEPTH CURB LOCK AT FACE OF CURB)
(C4.75)	CLASS 4.75 HMA FOR PATCHING (2" DEPTH)(AT FACE OF CURB)
(6W)	6" EPOXY RESIN PAVEMENT MARKINGS - WHITE
(12W)	12" EPOXY RESIN PAVEMENT MARKINGS - WHITE
(43.1.0)	CEMENT CONCRETE SIDEWALK
(43.3.0)	WHEELCHAIR RAMP STDS. 7.1.3, 7.3.3, 43.1.0, 43.3.0 AND 48.1.0
(RCS)	REMOVE AND STOCKPILE COBBLESTONES
(RPM)	REMOVE PAVEMENT MARKINGS



NOTES:

- CURB REVEAL SHALL BE 6 INCHES OR MATCH REVEAL OF EXISTING ADJACENT CURB TO REMAIN.
- 2-INCH BITUMINOUS PATCHING MATERIAL SHALL CONFORM TO CLASS 9.5 HMA.
- THE COST FOR THE INSTALLATION OF THE CURBING INCLUDED BUT IS NOT LIMITED TO THE FOLLOWING ITEMS PER THE DETAIL: CURBING, SAW CUTTING PAVEMENT, CURB SETTING, GRAVEL SUBBASE, CLASS XX CONCRETE AND CLASS 9.5 ASPHALT PATCHING MATERIAL COMPLETE IN PLACE AS INCLUDED IN THE ITEM 4 AND ITEM 5 BID PRICES PER LINEAR FOOT OF CURBING INSTALLED.

CURB INSTALLATION DETAIL
NOT TO SCALE



CROSSMAN ENGINEERING

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PROJECT TITLE:

**TRAFFIC SIGNAL
INSTALLATION
INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND
BOULEVARD**

PREPARED FOR:

**TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816**

DRAWING TITLE:

**GENERAL NOTES
and LEGEND**

DATE: MAY 2026 SCALE: NO SCALE

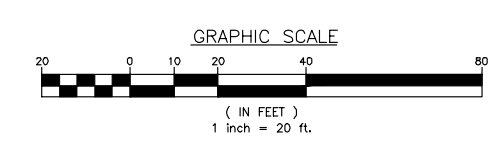
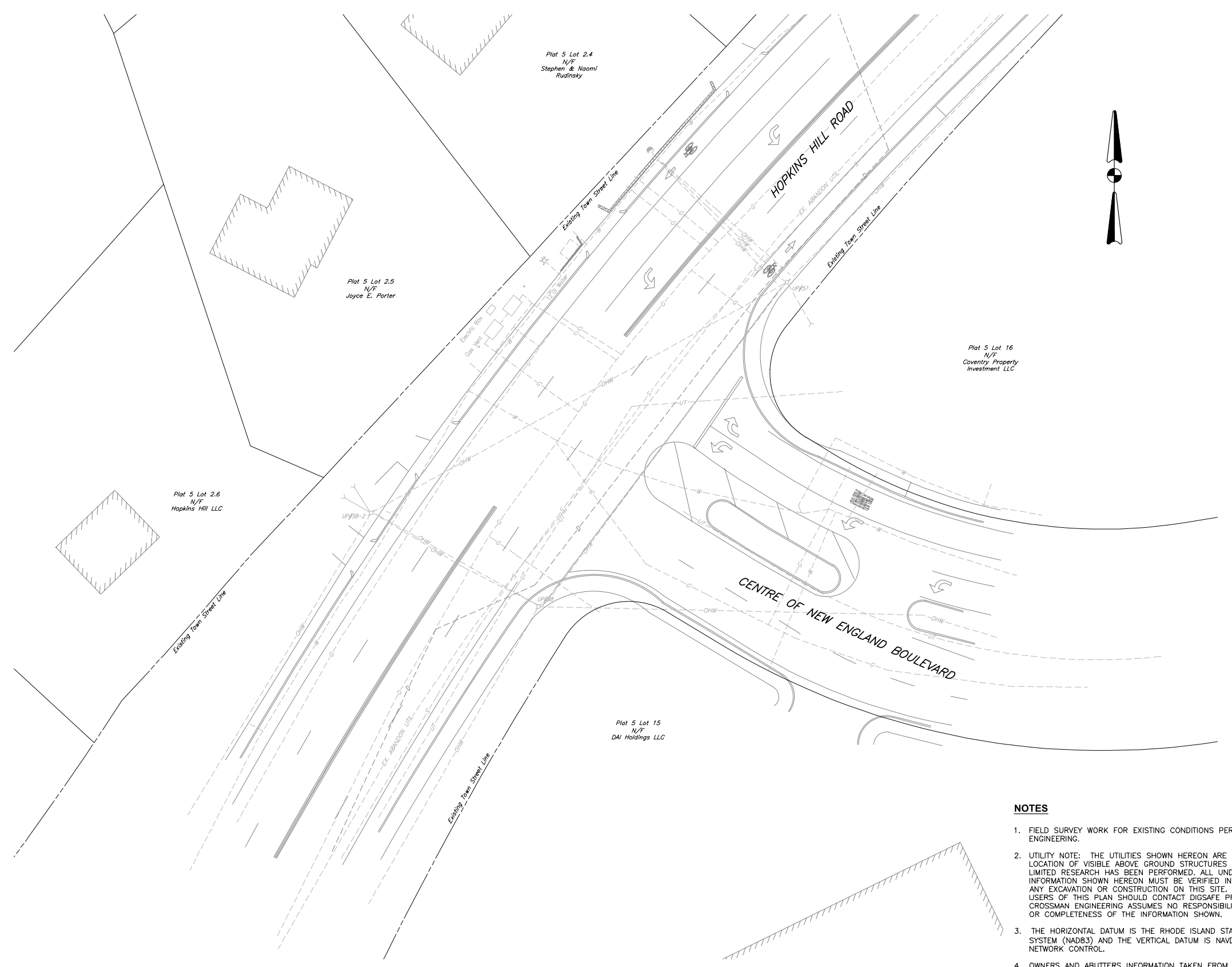
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REVISIONS		
NUMBER	REMARKS	DATE
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DRAWING NUMBER

C1

SHEET: 2 OF 5



NOTES

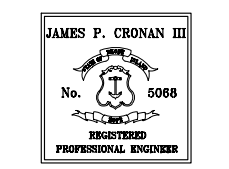
1. FIELD SURVEY WORK FOR EXISTING CONDITIONS PERFORMED BY CROSSMAN ENGINEERING.
2. UTILITY NOTE: THE UTILITIES SHOWN HEREON ARE PLOTTED FROM FIELD LOCATION OF VISIBLE ABOVE GROUND STRUCTURES AND MEASURED INVERTS. LIMITED RESEARCH HAS BEEN PERFORMED. ALL UNDERGROUND UTILITY INFORMATION SHOWN HEREON MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ON THIS SITE. THE CONTRACTOR OR USERS OF THIS PLAN SHOULD CONTACT DIGSAFE PRIOR TO ANY WORK. CROSSMAN ENGINEERING ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN.
3. THE HORIZONTAL DATUM IS THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM (NAD83) AND THE VERTICAL DATUM IS NAVD 88 UTILIZING GPS RTK NETWORK CONTROL.
4. OWNERS AND ABUTTERS INFORMATION TAKEN FROM THE TOWN OF COVENTRY TAX ASSESSORS RECORDS IN DECEMBER OF 2014. THIS INFORMATION IS NOT INTENDED TO BE A CERTIFICATION OF TITLE OR OWNERSHIP FOR THE PROPERTIES SHOWN. NO TITLE RESEARCH OR REPORTS HAVE BEEN PROVIDED. PARCELS ARE SUBJECT TO ANY EASEMENTS RESTRICTIONS, OR CONDITIONS OF RECORD.
5. THE PURPOSE OF THIS PLAN IS TO SHOW EXISTING CONDITIONS FOR ENGINEERING DESIGN BY CROSSMAN ENGINEERING.
6. NO STREET LAYOUT, RIGHT OF WAY LINE, ACCEPTANCE OR OTHER INFORMATION FOUND OR PROVIDED BY THE TOWN OF COVENTRY CLERKS, ENGINEERING OR PLANNING DEPARTMENTS FOR THE LOCATION, WIDTH OR STATUS OF RESERVOIR ROAD, PROPERTY LINES AND RIGHT OF WAY LINE SHOWN ON THIS PLAN IS APPROXIMATE AND HAVE BEEN COMPILED FROM ASSESSORS MAPS, DEEDS AND PLANS.

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- Civil
- Transportation
- Environmental
- Site Planning
- Surveying
- Permitting
- Landscape Architecture

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PROJECT TITLE:

**TRAFFIC SIGNAL
INSTALLATION**

**INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND
BOULEVARD**

PREPARED FOR:

**TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816**

DRAWING TITLE:

**EXISTING
CONDITIONS PLAN**

DATE: MAY 2026 **SCALE:** 1"=20'

DWG. NAME: 3032.00-03-EXCN.dwg

REVISIONS

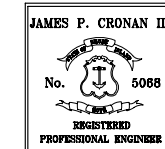
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DRAWING NUMBER

C2

SHEET: 3 OF 5

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PROJECT TITLE:
TRAFFIC SIGNAL INSTALLATION
INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND BOULEVARD

PREPARED FOR:
TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816

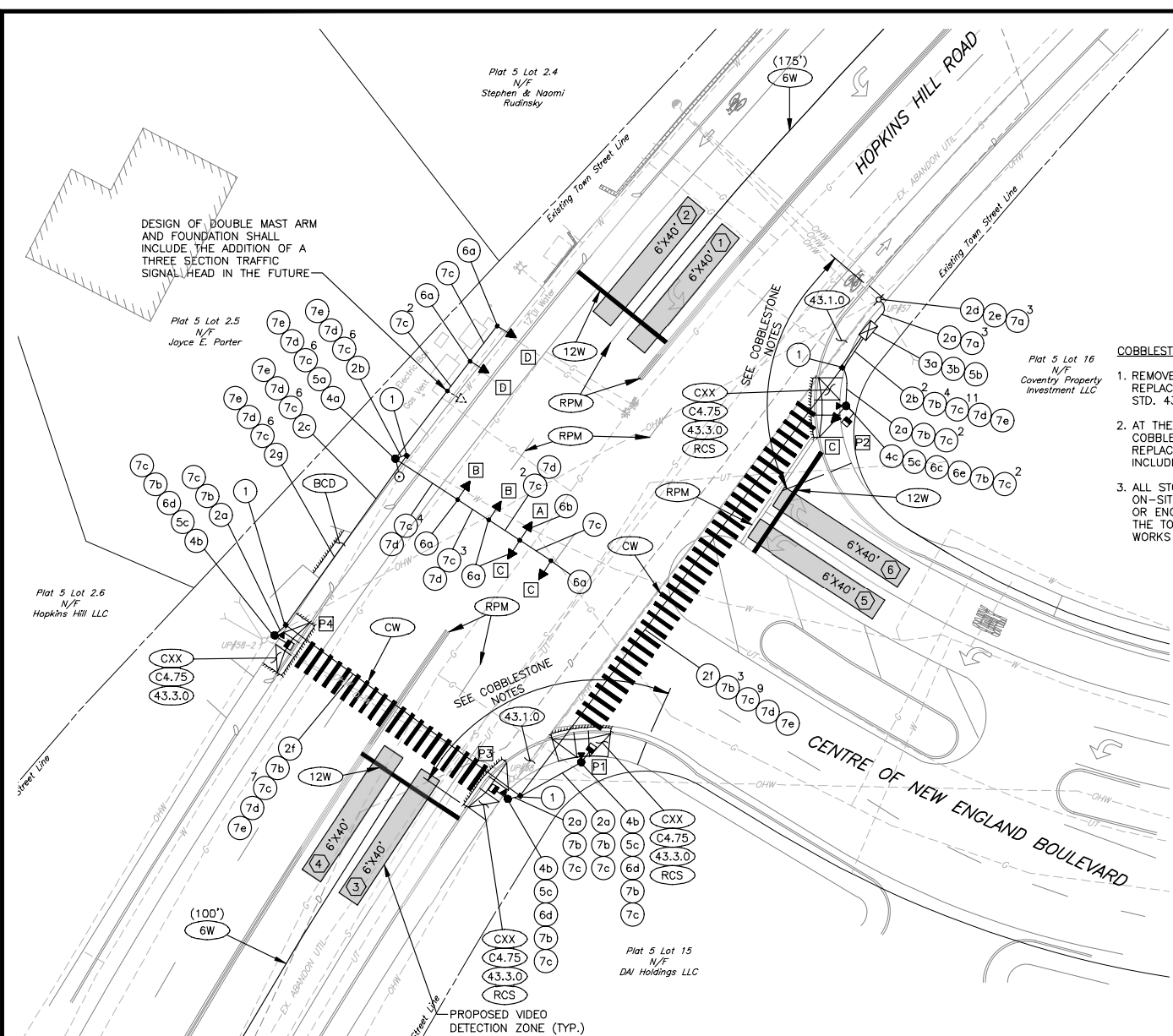
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TRAFFIC SIGNAL PLAN

DATE: MAY 2026 **SCALE:** 1"=20'
DWG. NAME: 3032.00-04-SIGNAL.dwg

REVISIONS

NUMBER	REMARKS	DATE
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DRAWING NUMBER
C3
 SHEET: 4 OF: 5



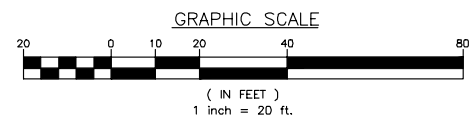
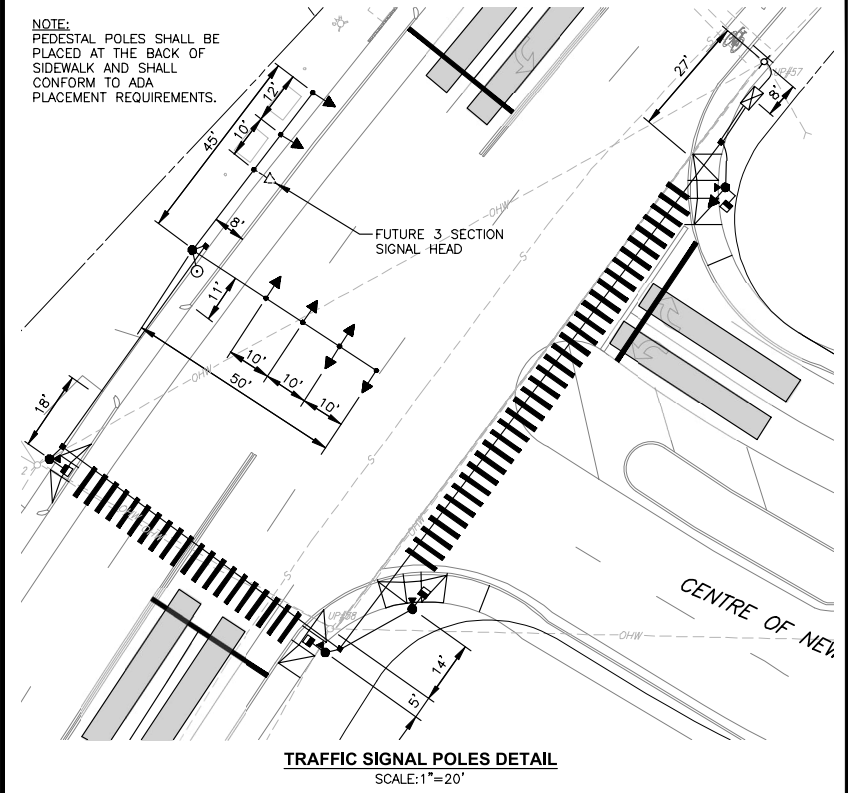
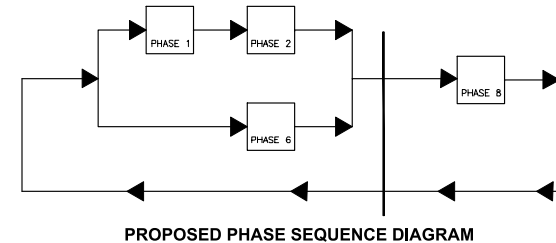
- COBBLESTONE NOTES:**
- REMOVE AND STOCKPILE COBBLESTONES AND REPLACE WITH CEMENT CONCRETE SIDEWALK, R.I. STD. 43.1.0.
 - AT THE EXTENTS OF THE NEW CONCRETE SIDEWALK, COBBLESTONES SHALL BE REMOVED, SAWCUT AND REPLACED AS NEEDED. THE COST SHALL BE INCLUDED IN THE COST OF THE SIDEWALK.
 - ALL STOCKPILED COBBLESTONES NOT REUSED ON-SITE SHALL, AT THE DIRECTION OF THE TOWN OR ENGINEER, BE DISPOSED OF OR DELIVERED TO THE TOWN OF COVENTRY DEPARTMENT OF PUBLIC WORKS FACILITY.

TRAFFIC SIGNAL EQUIPMENT LEGEND

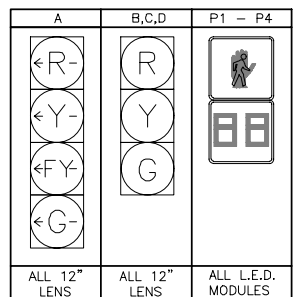
- 1 PRECAST TYPE 'A' HANDHOLE, STD. 18.2.0
- 2a 2" RIGID STEEL - UNDERGROUND
- 2b 3" RIGID STEEL - UNDERGROUND
- 2c 3" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDERGROUND
- 2d 2" RIGID STEEL CONDUIT - OVERHEAD
- 2e 2" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - OVERHEAD
- 2f 3" SCHEDULE 80 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT, STD. 18.6.0
- 2g 3" SCHEDULE 40 POLYVINYL CHLORIDE PLASTIC CONDUIT - UNDER EXISTING PAVEMENT
- 3a YUNEX M60 NEMA TS-2 CONTROLLER, TYPE 1 - WITH 8 PHASE ASSEMBLY INCLUDING FMU, GROUND MOUNTED INCLUDING FOUNDATION AND CABINET, STD. 19.1.1
- 3b 3 WIRE 120/240 METER SOCKET WITH MANUAL BY-PASS
- 4a DUAL MAST ARM (50'X45') GALVANIZED STEEL TRAFFIC SIGNAL POST AND FOUNDATION, STD. 19.2.0
- 4b TRAFFIC SIGNAL STD., 8' ALUMINUM PEDESTAL POLE AND FOUNDATION, STD. 19.4.0
- 4c TRAFFIC SIGNAL STD., 10' ALUMINUM PEDESTAL POLE AND FOUNDATION, STD. 19.4.0
- 5a INTERSECTION WIDE 360 DEGREE VIDEO DETECTION SYSTEM - AXIS M4318-PLVE PANORAMIC CAMERA
- 5b VIDEO PROCESSOR UNIT - CURRUX VISION ITS VIDEO DETECTION SYSTEM
- 5c ACCESSIBLE PEDESTRIAN DETECTOR PUSH BUTTON WITH SIGN
- 6a 1 WAY, 3 SECTION MAST ARM MOUNTED SIGNAL HEAD, 12 INCH
- 6b 1 WAY, 4 SECTION MAST ARM MOUNTED SIGNAL HEAD, 12 INCH WITH FLASHING YELLOW ARROW
- 6c 1 WAY, 3 SECTION PEDESTAL MOUNTED SIGNAL HEAD, 12 INCH
- 6d 1 WAY, PEDESTAL MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, 12 INCH
- 6e 1 WAY, BRACKET MOUNTED LED PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER, 12 INCH
- 7a 6 AWG SINGLE CONDUCTOR CABLE 600V INSULATION
- 7b 14 AWG 3 CONDUCTOR CABLE
- 7c 14 AWG 5 CONDUCTOR CABLE
- 7d 14 AWG 7 CONDUCTOR CABLE
- 7e VIDEO DETECTION CABLE

DETECTOR ZONE DATA

DETECTOR ZONE	NO. SECTION/ SIZE	DELAY (SECS.)	CALL PHASE	EXTEND PHASE	REMARKS
(1)	6' X 40'	3	1	1	PROPOSED VIDEO
(2)	6' X 40'	3	6	6	PROPOSED VIDEO
(3)	6' X 40'	3	2	2	PROPOSED VIDEO
(4)	6' X 40'	3	2	2	PROPOSED VIDEO
(5)	6' X 40'	3	8	8	PROPOSED VIDEO
(6)	6' X 40'	3	8	8	PROPOSED VIDEO



PROPOSED SIGNAL HEADS



- SIGNAL HEAD NOTES:**
- ALL RED, YELLOW, AND GREEN SIGNAL DISPLAYS SHALL BE EQUIPPED WITH LED MODULES.
 - PROPOSED TRAFFIC SIGNAL HEADS SHALL BE FURNISHED WITH 5" FLAT BACKPLATES WITH 3" YELLOW RETROREFLECTIVE STRIP IN ACCORDANCE WITH SECTION 40.12 OF THE MUTCD 2009 EDITION WITH ALL REVISIONS.

PHASING, SEQUENCE, AND TIMING

APPROACH	DIRECTION	HOUSING	PHASE 1	PHASE 2	PHASE 6	PHASE 8	FLASHING OPERATION
MINIMUM INTERVAL			6	10	10	8	2.4
VEHICLE EXTENSION			2.7	2.9			2.4
MAXIMUM 1			15	35	35	20	
MAXIMUM 2			15	35	35	20	
YELLOW CHANGE			4.0	4.5	4.5	3.5	
RED CLEARANCE			2.0	1.5	1.0	1.5	
PED. WALK			7	7	5	16	
PED. CLEARANCE			25	25	16		
HOPKINS HILL ROAD	WB-LT	A	←G	←SY	←R	←FY	←SY
HOPKINS HILL ROAD	WB	B	G	Y	R	R	G
HOPKINS HILL ROAD	EB	C	R	R	R	C	Y
CENTRE OF NEW ENGLAND BLVD.	NB	D	R	R	R	R	R
PEDESTRIAN X-ING	E-W	P1-P2	DW	DW	DW	DW	DW
PEDESTRIAN X-ING	N-S	P3-P4	DW	DW	DW	DW	DW
DETECTOR RECALL			NON-LOCK OFF	NON-LOCK MINIMUM-ON	NON-LOCK MINIMUM-ON	NON-LOCK OFF	

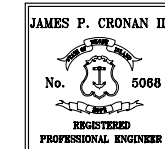
- PHASING NOTES:**
- IF THE ASSIGNED RIGHT OF WAY FOR A TRAFFIC MOVEMENT IS TO REMAIN IN EFFECT DURING THE NEXT CALLED PHASE, THE SIGNAL INDICATIONS FOR THAT TRAFFIC MOVEMENT WILL NOT CHANGE DURING THE CLEARANCE INTERVAL.
 - THE RIGHT OF WAY MAY BE ASSIGNED TO ANY PHASE, OR COMBINATION OF NON-CONFLICTING PHASES.



CROSSMAN ENGINEERING

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 Massachusetts: 1 George Levin Drive, Suite 200, North Attleboro, MA 02760, Phone: (508) 695-1700
 Email: cei@crossmaneng.com

THESE DRAWINGS ARE THE PROPERTY OF CROSSMAN ENGINEERING AND HAVE BEEN PREPARED FOR THEIR CLIENT FOR A SPECIFIC SITE AND PROJECT. THESE DRAWINGS ARE NOT TO BE COPIED OR USED FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF CROSSMAN ENGINEERING.



PROJECT TITLE:
TRAFFIC SIGNAL INSTALLATION
INTERSECTION OF
HOPKINS HILL ROAD AT
CENTRE OF NEW ENGLAND
BOULEVARD

PREPARED FOR:
TOWN OF COVENTRY
DEPARTMENT OF
PUBLIC WORKS
1668 FLAT RIVER ROAD
COVENTRY, RI 02816

DRAWING TITLE:
MISCELLANEOUS
DETAILS PLAN

DATE: MAY 2026 **SCALE:** NO SCALE

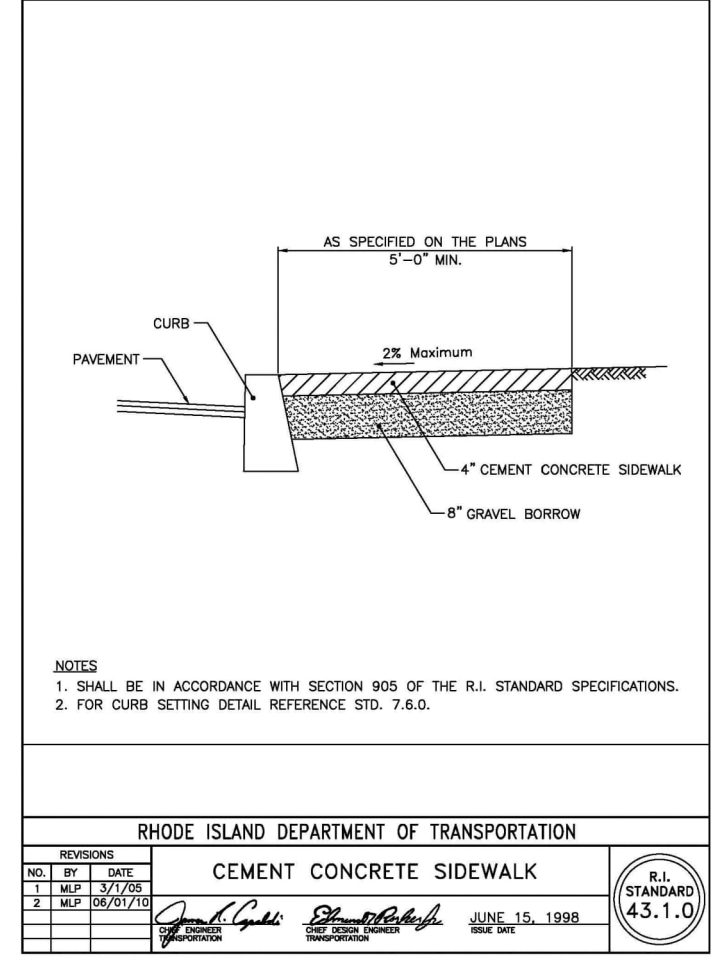
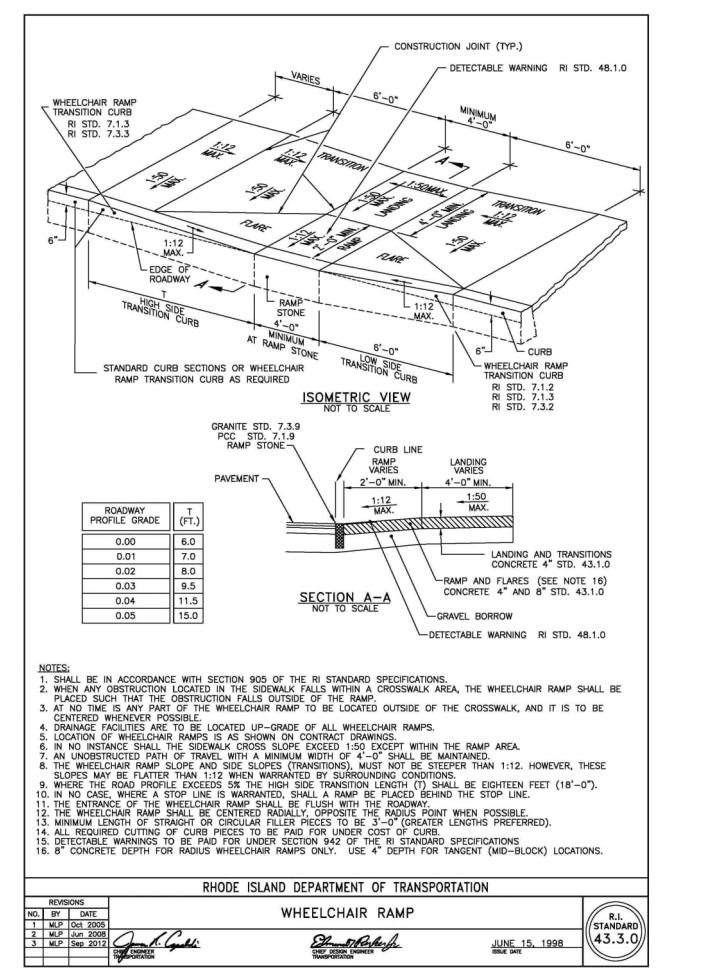
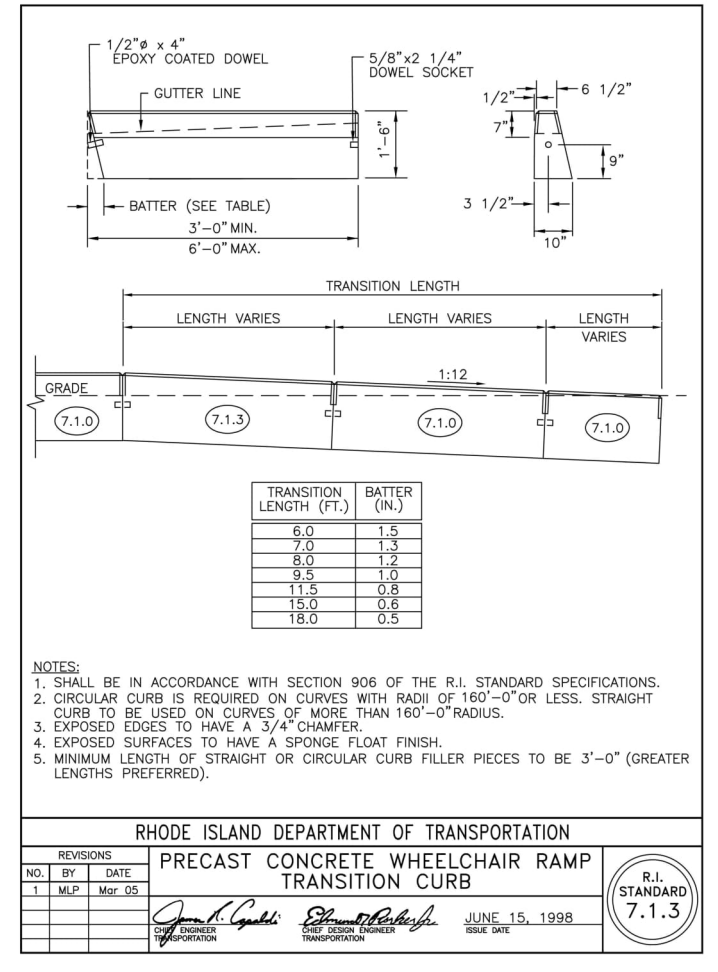
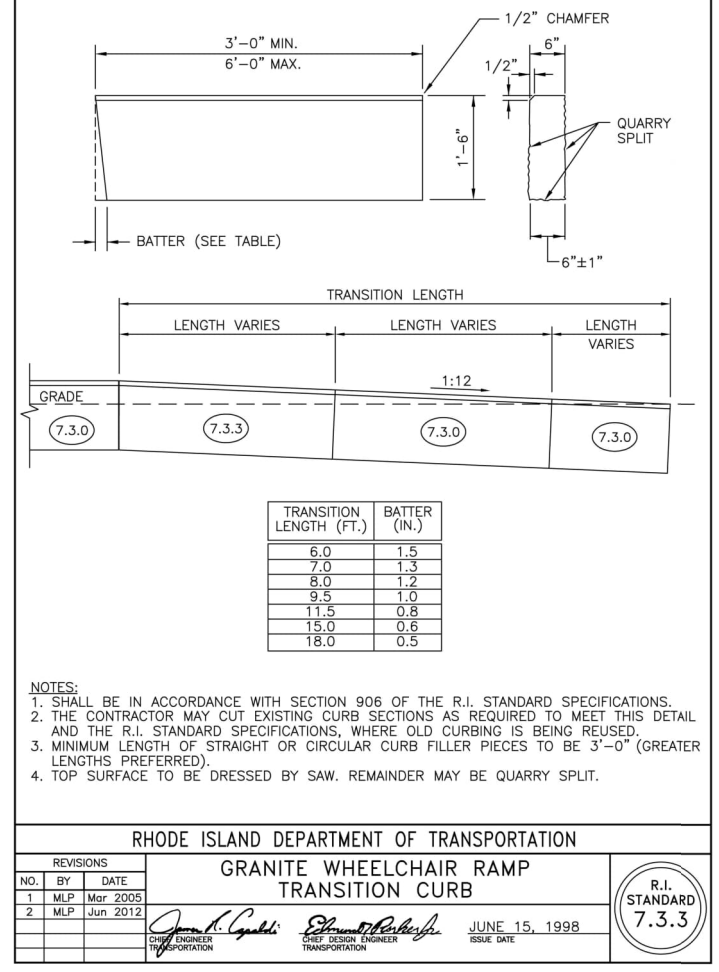
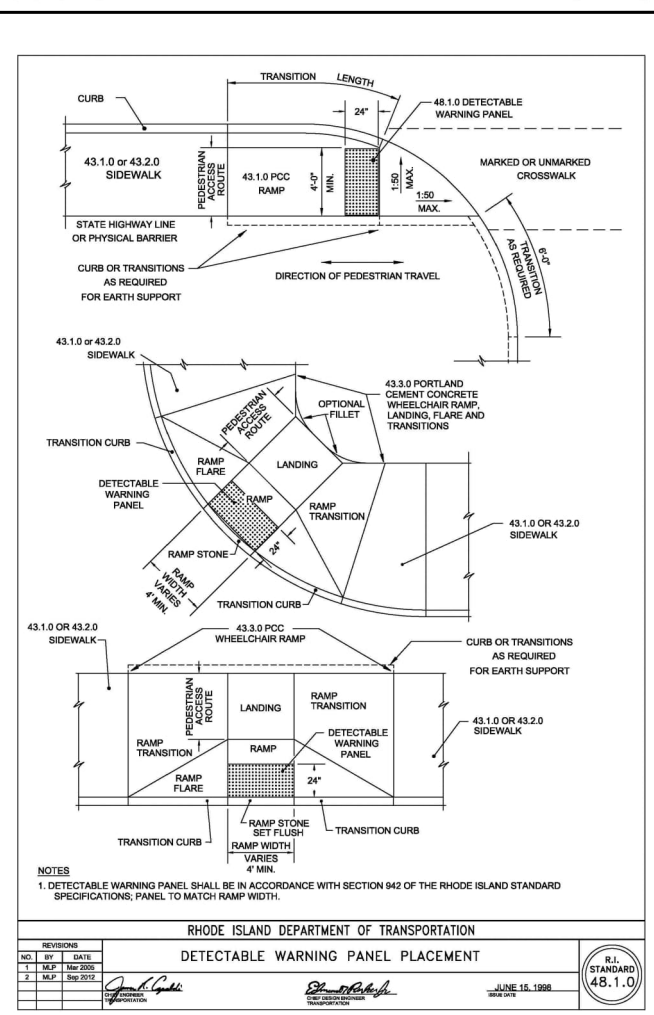
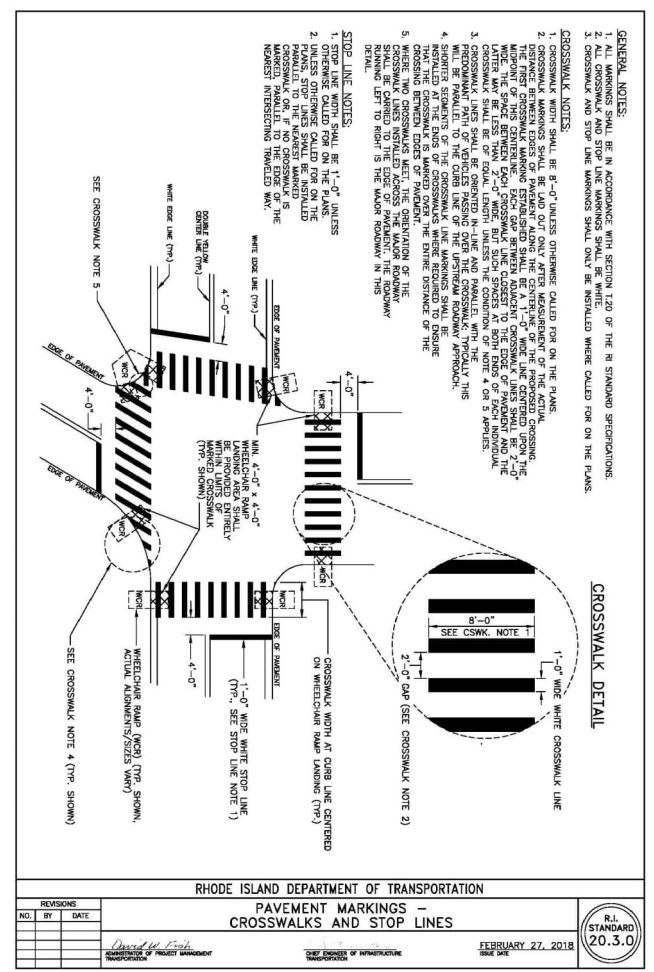
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REVISIONS	NUMBER	REMARKS	DATE
1	---	---	---

DRAWING NUMBER

C4

SHEET: 5 OF 5



GEOTECHNICAL REPORT

Geotechnical Site Investigations and Recommendations

(Prepared by Joe Casali Engineering, Inc., March 16, 2026)

JOE CASALI ENGINEERING, INC.

CIVIL • SITE DEVELOPMENT • GEOTECHNICAL • TRANSPORTATION • DRAINAGE • WETLANDS • OWTS • FLOODPLAIN
300 Post Road • Warwick, RI 02888 • (401) 944-1300 • (401) 944-1313 (fax) • WWW.JOECASALI.COM

March 16, 2026

Mr. Paul J. Bannon, Senior Project Director
Crossman Engineering, Inc.
100 Jefferson Blvd., Suite 200
Warwick, RI 02888

Re: Centre of New England Blvd. Improvements Project
New Traffic Signal at Centre of New England Blvd. and Hopkins Hill Rd.
Geotechnical Site Investigations and Recommendations

Dear Mr. Bannon:

This letter presents our geotechnical site investigations and recommendations for the proposed mast arm foundation for the new traffic signal to be located at the intersection of Centre of New England Blvd. and Hopkins Hill Road in the Town of Coventry, Rhode Island. The purpose of this report is to provide geotechnical recommendations and site parameters for mast arm foundation design. The investigations performed are recommendations presented herein are subject to the limitations included in Attachment A.

PROJECT AND SITE DESCRIPTION

The project site is located within the Centre of New England Boulevard and Hopkins Hill Road rights-of-way at their intersection; refer to Figure 1 - Locus Map for general site location. The overall project involves the signalization of this intersection. We understand that the signalization includes a new steel post with dual mast arm (50-ft x 45-ft) located on the southbound shoulder of Hopkins Hill Road. The 50-ft mast arm is located in a west-east orientation perpendicular to Hopkins Hill Road with one-way signals located 20-, 30- and 50-ft from the steel post and two-way signal located 40-ft from the steel post. The 45-ft mast arm is located in a north-south orientation parallel to Hopkins Hill Road with one-way signals located 33- and 45-ft from the steel post. Other improvements include handicap accessible ramps, crosswalks, crosswalk signals, etc.

USDA Soil Classification

According to the *Web Soil Survey (WSS)* operated by the US Department of Agriculture Natural Resources Conservation Service (NRCS), produced by the National Cooperative Soil Survey, the soils on the site consist of Hinchley loamy sand, 8 to 15 percent slopes (HkC). Generally, HkC soils consist of sandy and gravelly glacial deposits, with a depth to the seasonal high groundwater table of greater than 80-inches, belonging to Hydrologic Soil Group A.

Geologic Setting

The existing USGS Surficial Geology Map for the Crompton Quadrangle, prepared in the mid-1950's, indicates that the surficial geology of the subject site consists of kame terrace (medium to coarse grained

gravel deposited by meltwater streams). The existing USGS Bedrock Geology Map for the Crompton Quadrangle, prepared in the mid-1950's, indicates that the site is further underlain by Scituate Granite Gneiss.

SUBSURFACE EXPLORATIONS

Geotechnical Borings

JCE engaged Hoffman Environmental Inc. (Hoffman) of North Kingstown, Rhode Island to drill the boring for the geotechnical site assessment. Hoffman drilled one (1) boring in the area of the proposed mast arm foundation (B-1) on Wednesday March 4, 2026 using hollow stem auger drilling techniques. Due to the proximity of the boring to an adjacent Rhode Island Energy gas regulator station, the upper 6-ft of the borehole was excavated using vacuum excavation methods; soils from the upper 6-ft were classified via observation of spoils and edges of the excavation. A JCE engineer was on-site full time to coordinate and document the explorations and to collect soil samples. Exploration locations are shown on Figure 2 – Subsurface Exploration Location Plan and were located by taping from existing site features.

A JCE field engineer visually classified soil samples in the field using ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). A Rhode Island Registered Professional Engineer later checked field classifications at JCE's office. Standard Penetration Tests (SPTs) were performed at standard 5-foot intervals for all borings until the proposed termination depth or refusal was encountered, whichever was shallower. Boring logs are included in Attachment B.

All soil samples collected as a result of our explorations are being stored at our office in Warwick, Rhode Island. The soil samples will be held for six (6) months after the issuance of this report. We will discard the samples after the six (6) months has elapsed unless other arrangements are made.

Generalized Subsurface Conditions

The subsurface conditions are only known at the boring location; conditions elsewhere may vary significantly. A description of the major soil layers encountered in the borings is presented below.

Medium Dense Silty Sand – A layer of medium dense silty sand was encountered at the ground surface extending to approximately 23.5-ft below grade. In general, the medium dense silty sand layer consisted of about 70 percent fine to medium sand, 15 percent nonplastic fines (silt), and 15 percent fine to coarse gravel. Standard penetration test (SPT) N-values in the medium dense silty sand layer ranged from 9 blows per foot (bpf) to 15 bpf, with a median value of 11 bpf, indicating a medium dense soil.

Loose Silty Sand – A layer of loose silty sand and gravel was encountered below the medium dense silty sand and gravel extending to between approximately 23.5-ft and 26.5-ft below grade. In general, the loose silty sand layer consisted of about 65 percent fine to medium sand, 25 percent nonplastic fines (silt), and 10 percent fine to coarse gravel. The lone SPT N-value taken in the loose silty sand layer was 3 bpf, indicating a loose soil.

Glacial Till – A layer of glacial till was encountered below the loose silty sand layer at about 26.5-ft below existing grade; B-1 was terminated in this layer. The glacial till layer generally consisted of 50 percent fine to medium sand, 30 percent nonplastic fines (silt), and 20 percent fine to coarse gravel. The lone SPT N-value in this layer was 63 bpf, indicating a very dense soil.

Groundwater

Groundwater was measured in the open boreholes at the completion of drilling and again after allowing the groundwater to equilibrate in the open borehole for approximately 30-minutes. Groundwater was encountered approximately 8.3-ft below the existing ground surface. For design purposes, we recommend using a groundwater table of 8-feet below the existing ground surface.

Geotechnical Laboratory Testing

Geotechnical laboratory testing was performed on representative soil samples to confirm field identifications, to establish engineering characteristics for use in design, and to assess suitability for reuse. Geotechnical laboratory testing was performed by Thielsch Engineering Inc.'s soils laboratory in Cranston, Rhode Island and included two (2) grain size analyses in accordance with ASTM D6913. Results of the laboratory testing program have been incorporated into the boring logs. Laboratory test sheets are provided in Attachment C.

GEOTECHNICAL RECOMMENDATIONS

Foundation Design

Foundation design and recommendations for the proposed signal structure have been prepared in general accordance with the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, February 2026 (Standard Specifications) and the Rhode Island Department of Transportation Standard Details, February 2025 (Standard Details).

It is recommended that the proposed steel post and mast arm structure be supported on a deep foundation consisting of a drilled shaft with no bell (straight shaft). Drilled shafts for proposed signal structures are normally loaded laterally by wind forces. The ability of the shaft to resist wind loads is dependent upon the diameter of the shaft and the passive pressures that develop in the soils along the shaft. Given the soil types encountered, we recommend that the proposed drilled shaft be no less than 3'-6" diameter.

The drilled shaft should be designed to keep total settlement to less than about 1-inch. Given the granular nature of subgrade soils, settlements are likely to occur during, or immediately after construction. Additional design considerations associated with seismic design and potentially liquefiable soils are presented below. Geotechnical design parameters can be found in Table 1 below.

Table 1: Geotechnical Parameters for Use in Design

Soil Material	Total Unit Weight		Drained Parameters				
	Above GWT	Below GWT	Friction Angle	Cohesion	Earth Pressure Coefficients		
	γ_t (pcf)	γ_{sat} (pcf)	ϕ (deg.)	c' (ksf)	K_o	K_a	K_p
Structural Fill	120	125	35	0	0.43	0.27	3.7
Medium Dense Silty Sand	120	125	30	0	0.50	0.33	3.0
Loose Silty Sand	115	120	28	0	0.53	0.36	2.8
Glacial Till	125	130	38	0	0.38	0.24	4.2

1. The values presented are based on empirical correlations and engineering judgement.
2. Parameters to be used for footings and structures: K_o = Coefficient of Earth Pressure at Rest; K_a = Active Earth Pressure Coefficient (Rankine); K_p = Passive Earth Pressure Coefficient (Rankine).
3. The values presented above for Common Borrow and Structural Fill assume material is compacted to 95% Modified Proctor maximum dry density in accordance with ASTM D1557.

Seismic Design

We recommend using Site Class D for seismic design of foundation elements in accordance with Section 1613 of the International Building Code (IBC 2021) (adopted as Rhode Island State Building Code, Effective December 1, 2025). Foundation elements should be designed to resist earthquake lateral forces as described in Section 1613 of IBC 2021. According to ASCE 7-22, the following seismic coefficients should be used for seismic design:

- $S_s = 0.200g$
- $S_1 = 0.047g$
- $S_{DS} = 0.160g$
- $S_{D1} = 0.066g$
- $PGA_M = 0.120g$

Peak ground acceleration (PGA_M) corresponds to the PGA value corrected for site effects (as indicated in ASCE 7-10). The loose silty sand layer is potentially susceptible to earthquake induced liquefaction.

Drilled Shaft Design Considerations

The loose silty sand layer located between 23.5-ft and 26.5-ft below existing grade (3-ft-thick) is potentially liquefiable. As such, we recommend that the drilled shaft terminate about 1.5- to 2-diameters above the potentially liquefiable layer, such that the shaft derives axial capacity from side resistance and end bearing within the overlying medium dense silty sand layer. In this scenario, the potentially liquefiable layer is located well below the shaft tip (outside the primary stress influence zone) and is not expected to significantly affect the axial or lateral performance of the drilled shaft. Liquefaction may cause post-earthquake reconsolidation settlement within the loose silty sand layer, however these settlements are unlikely to propagate through the non-liquefiable soils above and there is likely to be very little surface settlement and little movement between soil and shaft in this scenario.

Alternatively, the shaft may be designed to fully penetrate through the potentially liquefiable layer, bearing in the glacial till layer located approximately 26.5-ft below existing grade. In this scenario, the design should neglect side resistance in the liquefiable zone and should evaluate the potential for downdrag loads resulting from post-liquefaction settlement. These are likely to be unimpactful, as the potentially liquefiable layer is relatively thin and the shaft is embedded into very dense glacial till soils.

Either approach is viable depending on structural design requirements; however, terminating the shaft above the liquefiable layer simplifies the foundation design by eliminating direct interaction with the liquefiable soils.

CONSTRUCTION RECOMMENDATIONS

Drilled Shaft Construction

All work performed for the proposed project should conform to the requirements of the Rhode Island Department of Transportation Standard Specifications for Road and Bridge Construction, February 2026 (Standard Specifications) and the Rhode Island Department of Transportation Standard Details, February 2025 (Standard Details) and all applicable Town of Coventry Regulations. Any deviations from the recommendations provided herein should be approved by the design engineer of record.

Drilled shaft construction should be completed in accordance with Section T11.03.2 of the Standard Specifications. Based on the depth to groundwater (8-ft), a temporary casing will likely be required to prevent caving or excessive deformation of the hole. Given the wet conditions expected, concrete should be placed by gravity tremie methods in accordance with Subsection 808.03.5(f) of the Standard Specifications or by the concrete pump tremie method in accordance with Subsection 808.03.6 of the Standard Specifications. Concrete deposited in water should conform to Section 601 of the Standard Specifications. Any fill placed within a 5-foot radius of the proposed foundation should meet the gradation and compaction requirements for Structural Fill shown in Table 2.

Table 2: Requirements for Structural Fill

Sieve Size	Percent Passing by Weight
3-inches	100
1/2-inch	50-100
No. 4	30-85
No. 16	15-65
No. 50	5-40
No. 200	0-8

1. Structural fill shall consist of well-graded, natural sand and gravel free of excessive clay, silt, organic matter, and other deleterious materials.
2. Material passing the No. 200 sieve should be non-plastic.
3. Structural fill shall be compacted in loose lifts no more than 9-inches-thick. Compaction shall be to 95 percent of the maximum dry density in accordance with ASTM D1557.

RECOMMENDATIONS FOR FUTURE WORK

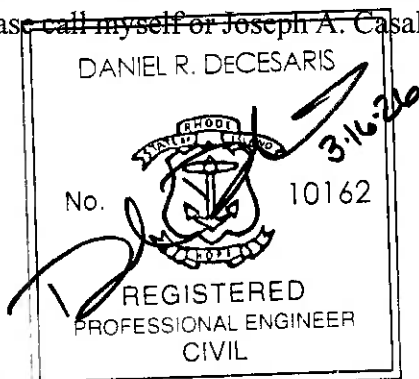
We recommend that JCE be engaged during construction to review and assist in responding to contractor submittals; to provide construction observation to confirm that foundations are bearing on the appropriate soils and to observe subgrade preparation activities; and to provide laboratory and field-testing to check that all imported fill materials meet the recommended gradation and compaction requirements.

We thank you for the opportunity to prepare this report. If you need any clarification or would like to discuss the content of this letter report, please call myself or Joseph A. Casali, PE, MBA at 401-944-1300.

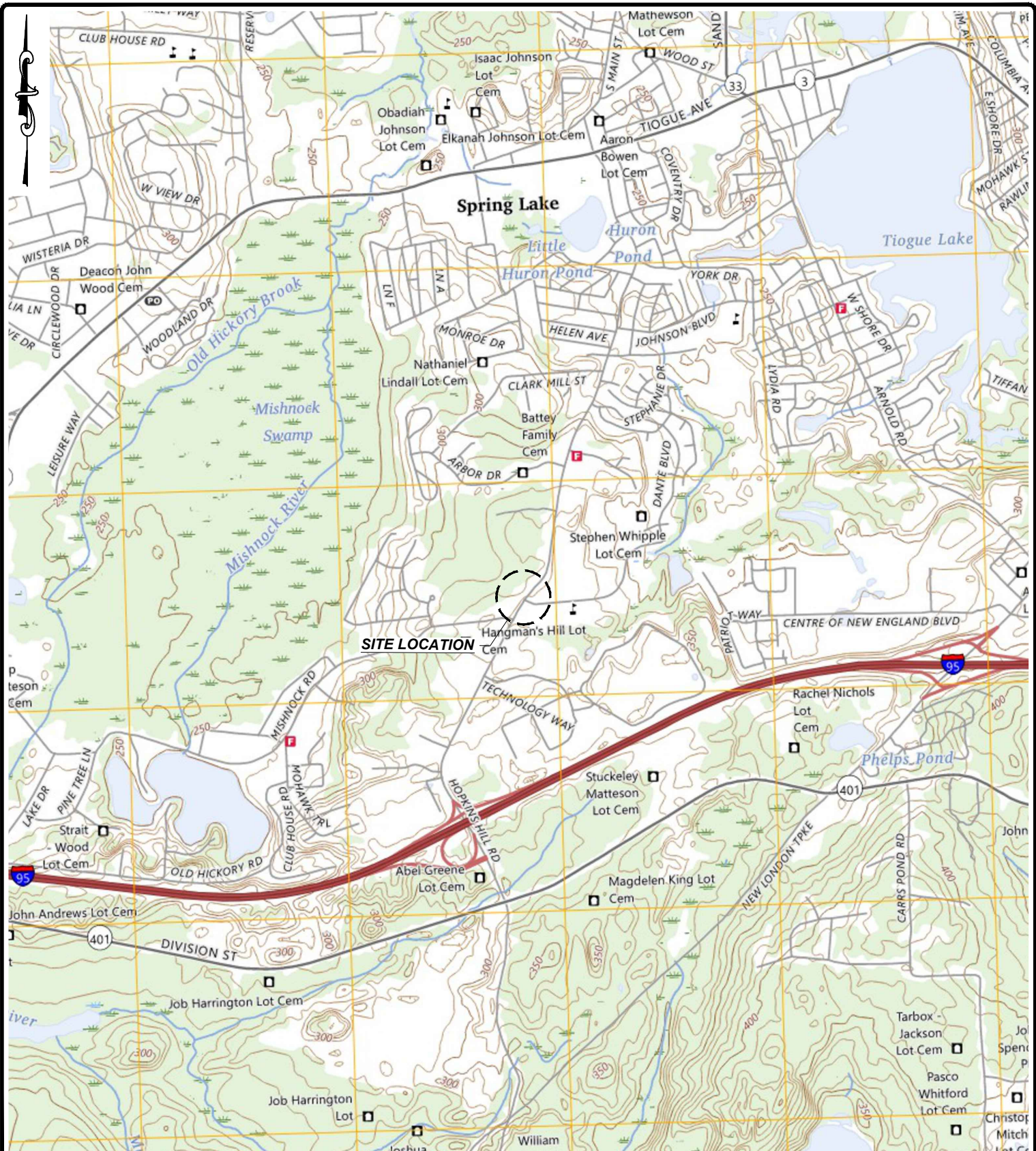
Sincerely,
JOE CASALI ENGINEERING, INC.



Daniel R. DeCesaris, PE
Project Manager



Enclosures: Figure 1 – Locus Map; Figure 2 – Subsurface Exploration Location Plan; Attachment A – Geotechnical Limitations, Attachment B – Boring Logs, Attachment C – Geotechnical Laboratory Testing Results



NOTE:
 LOCUS MAP REFERENCES USGS US TOPO
 7.5-MINUTE MAP FOR CROMPTON
 QUADRANGLE (2024).

LOCUS MAP
 SCALE: 1" = 2,000'

REVISIONS:	
NO.	DATE DESCRIPTION

**LOCUS
MAP**

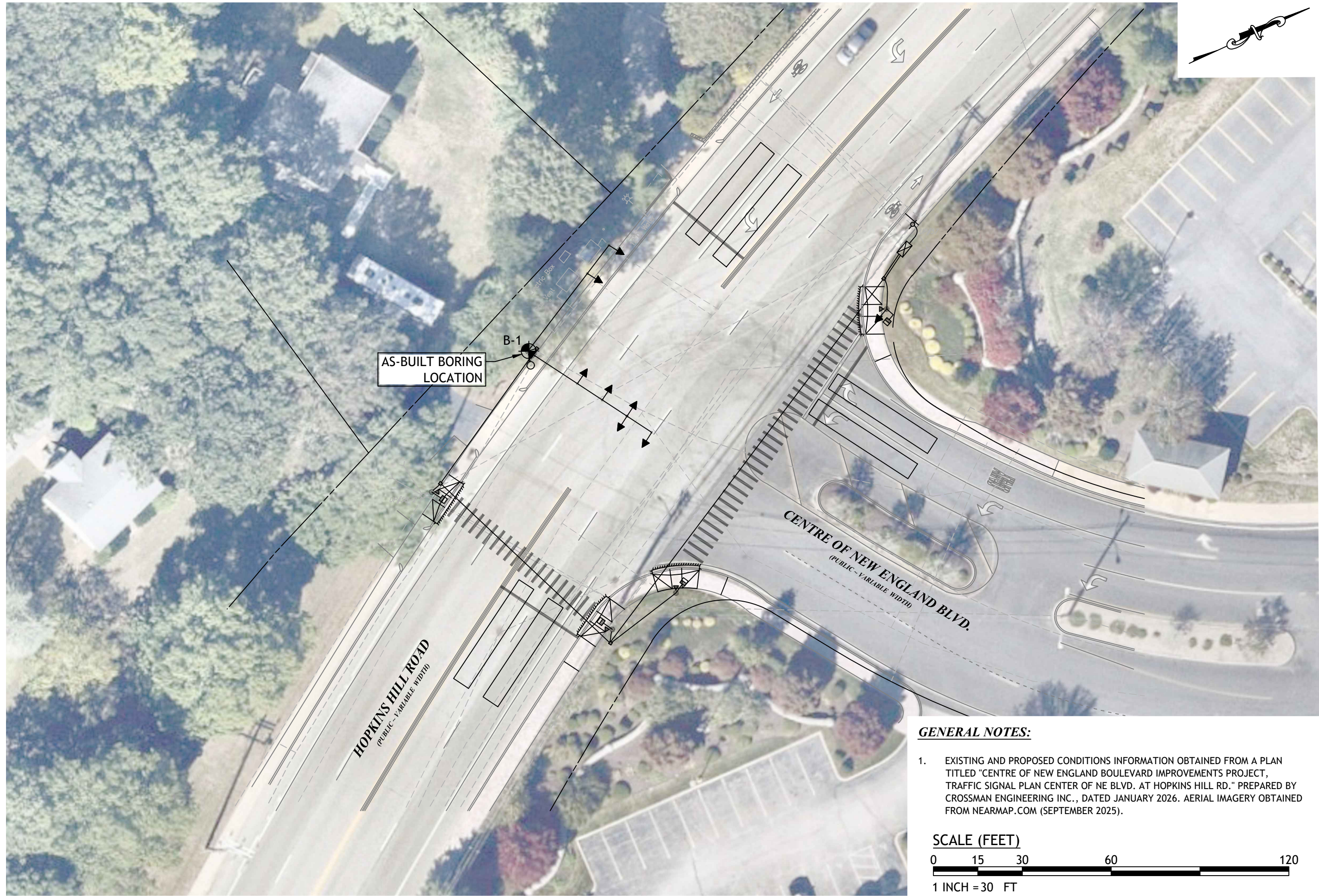
FIGURE 1

PROPOSED TRAFFIC SIGNAL
 CENTRE OF NEW ENGLAND BLVD.
 AND HOPKINS HILL ROAD
 COVENTRY, RHODE ISLAND

JCE

JOE CASALI ENGINEERING, INC.
 CIVIL · SITE DEVELOPMENT · TRANSPORTATION
 DRAINAGE · WETLANDS · ISDS · TRAFFIC · FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02888
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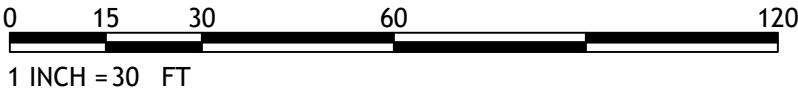
Q:\20-15 Crossman Engineering\20-15b Centre of New England\Geotech\Figures\F2 - Exploration Location Plan.dwg Mar. 16, 2026 10:42am



GENERAL NOTES:

1. EXISTING AND PROPOSED CONDITIONS INFORMATION OBTAINED FROM A PLAN TITLED "CENTRE OF NEW ENGLAND BOULEVARD IMPROVEMENTS PROJECT, TRAFFIC SIGNAL PLAN CENTER OF NE BLVD. AT HOPKINS HILL RD." PREPARED BY CROSSMAN ENGINEERING INC., DATED JANUARY 2026. AERIAL IMAGERY OBTAINED FROM NEARMAP.COM (SEPTEMBER 2025).

SCALE (FEET)



JCE
 JOE CASALI ENGINEERING, INC.
 CIVIL - SITE DEVELOPMENT - TRANSPORTATION
 DRAINAGE - WETLANDS - ISDS - TRAFFIC - FLOODPLAIN
 300 POST ROAD, WARWICK, RI 02886
 (401) 944-1900 (401) 944-1313 FAX WWW.JOECASALI.COM

PROPOSED TRAFFIC SIGNAL
 CENTRE OF NEW ENGLAND BLVD.
 AND HOPKINS HILL ROAD
 COVENTRY, RHODE ISLAND

NO.	DATE	DESCRIPTION

DESIGNED BY:	DRD
DRAWN BY:	MG
CHECKED BY:	DRD
DATE:	MARCH 2026
PROJECT NO.	25-06

GEOTECHNICAL REPORT

SUBSURFACE EXPLORATION LOCATION PLAN

FIGURE 2

Attachment A

Geotechnical Limitations

GEOTECHNICAL LIMITATIONS

1. Joe Casali Engineering, Inc. (JCE) has prepared this report for the exclusive use of Crossman Engineering, Inc. for the project identified within the Report. The recommendations presented within the report are for the project identified and at the location identified within the Report. The use of this Report, in whole or in part, may lead to inappropriate conclusions, for which we will not accept any responsibility for.
2. JCE's findings, conclusions and recommendations are based on a scope of work identified in Proposal for Professional Engineering Services and/or this Report, reflecting our professional judgement as to the level of effort required to make said findings, conclusions and recommendations to a reasonable degree of engineering certainty. These findings, conclusions and recommendations are our professional opinion based on the limited data obtained during the scope of our work. If conditions differing from those presented throughout this Report are found, or if the design has been modified in any way, JCE shall be notified and given the opportunity to revise findings, conclusions and recommendations based on the noted changes.
3. The data and recommendations presented in this report were collected and analyzed using generally accepted industry methods and practices. No other warranty, express or implied, is made.
4. The recommendations presented throughout this report are based on the data obtained from the subsurface exploration program, which includes widely spaced subsurface explorations. Variations in subsurface conditions, including soil conditions and groundwater conditions, may exist which will not become evident until construction. Variations in subsurface conditions may require revisions to our recommendations. If subsurface conditions differ from those presented throughout this Report, JCE shall be notified and given the opportunity to revise findings, conclusions and recommendations based on the variations.
5. JCE's scope of services did not include an assessment of hazardous materials on the property or at the project site. The impact of any potential contaminants on construction activities was not considered.
6. We strongly advise that JCE be engaged to review final plans and specifications to determine whether our recommendations have been properly implemented into the design. We will not accept responsibility for any design based on our recommendations unless we are given the opportunity to review. In addition, we recommend that JCE be engaged during construction to ensure subsurface conditions comply with the findings, conclusions and recommendations presented throughout this Report.

Attachment B

Boring Logs

BORING INFORMATION

LOCATION Centre of New England Boulevard at Hopkins Hill Road

GROUND SURFACE EL. (ft): 330

DATE START/END: March 4, 2026

VERTICAL DATUM: NAVD88

DRILLING COMPANY: Hoffman Environmental Services,

TOTAL DEPTH (ft): 32-ft

DRILLER NAME: Kyle Hoffman

LOGGED BY: D. DeCesaris, PE / Mark Gelsomino

RIG TYPE: Geoprobe 7822DT Truck-Mounted Drill Rig

BORING

B-1

PAGE 1 of 1

DRILLING INFORMATION

HAMMER TYPE: Automatic Hammer

CASING I.D./O.D.: NA

CORE BARREL TYPE: NA

AUGER I.D./O.D.: 3.0" I.D./3.25" O.D.

DRILL ROD O.D.: 2" O.D.

CORE BARREL I.D./O.D.: NA

DRILLING METHOD: Hollow Stem Augers

WATER LEVEL ELEVATIONS (ft): 8.3-ft (end of drilling)

ABBREVIATIONS:

Pen. = Penetration Length
 Rec. = Recovery Length
 RQD = Rock Quality Designation
 = Length of Sound Cores > 4 in / Pen, %
 WOR = Weight of Rods
 WOH = Weight of Hammer

S = Split Spoon Sample
 C = Core Sample
 U = Undisturbed Sample
 SC = Sonic Core
 DP = Direct Push Sample
 HSA = Hollow-Stem Auger

Qp = Pocket Penetrometer Strength
 Sv = Pocket Torvane Shear Strength
 LL = Liquid Limit
 PI = Plasticity Index
 PID = Photoionization Detector
 I.D./O.D. = Inside Diameter/Outside Diameter

NA, NM = Not Applicable, Not Measured
 Blows per 6 in.: 140 lb. hammer falling
 30 inches to drive a 2-inch-O.D.
 split spoon sampler.

Elev. (ft)	Depth (ft)	Sample Information			Blows per 6 in. or RQD	Drilling Remarks/ Field Test Data	Graphic Log	Soil and Rock Description
		Sample No.	Depth (ft)	Pen./Rec. (in)				
0			0.0 to 6.0			Geotextile fabric encountered at grade. Roots in top 12-inches.	(0-72") SILTY SAND WITH GRAVEL (SM); Light brown, dry, 65% fine to coarse sand, 20% fine to coarse gravel, 15% nonplastic fines.	
	5	S1	6.0 to 8.0	24/20	6-8-7-7	Possible iron oxide staining observed throughout sample.	S1: SILTY SAND WITH GRAVEL (SM); Light brown, dry, 62.7% fine to coarse sand, 21.2% fine to coarse gravel, 16.1% nonplastic fines.	
		S2	8.0 to 10.0	24/22	3-4-6-9		S2: SILTY SAND WITH GRAVEL (SM); Light brown, dry, 70% fine to coarse sand, 15% fine to coarse gravel, 15% nonplastic fines.	
	10	S3	10.0 to 12.0	24/18	6-6-6-8		S3: SILTY SAND WITH GRAVEL (SM); Light brown/olive, wet, 70% fine to coarse sand, 15% fine to coarse gravel, 15% nonplastic fines.	
		S4	12.0 to 14.0	24/15	4-4-5-6		S4: SILTY SAND WITH GRAVEL (SM); Similar to S3.	
	15	S5	14.0 to 16.0	24/17	4-7-3-6		S5: POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); Light brown, wet, 80% fine to medium sand, 10% fine to coarse gravel, 10% nonplastic fines.	
		S6	16.0 to 18.0	24/14	13-6-5-7		S6: POORLY GRADED SAND (SP); Light brown, wet, 89.0% fine to medium sand, 6.5% fine gravel, 4.5% nonplastic fines.	
	20	S7	20.0 to 22.0	24/17	5-5-8-3	Begin standard 5-ft sampling.	S7: SILTY SAND WITH GRAVEL (SM); Light brown, wet, 65% fine to medium sand, 25% nonplastic fines, 10% fine gravel.	
	25	S8	25.0 to 27.0	24/11	2-2-1-10		S8: SILTY SAND WITH GRAVEL (SM); Similar to S7.	
	30	S9	30.0 to 32.0	24/14	23-32-31-16	Heavy rig chatter.	S9: SILTY SAND WITH GRAVEL (SM); Light grey, wet, 50% fine to coarse sand, 30% nonplastic fines, 20% fine to coarse gravel, TILL.	
							Bottom of boring at 32-ft; open borehole backfilled with drill cuttings and previously excavated materials.	

PROJECT NAME: Centre of New England Boulevard Improvements

CITY/STATE: Coventry, Rhode Island

PROJECT NUMBER: 20-15b

NOTES: Due to the adjacent RI Energy gas regulator vault, the upper 6-ft of the borehole was vacuum excavated.



Attachment C

Geotechnical Laboratory Testing Results

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.6	15.6	9.7	22.2	30.8	16.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	94.4		
1/2"	88.1		
3/8"	85.4		
#4	78.8		
#10	69.1		
#20	57.6		
#40	46.9		
#60	40.1		
#100	27.1		
#200	16.1		

Soil Description

Light Brown silty sand with gravel

PL= NP	<u>Atterberg Limits</u>	PI= NP
	LL= NV	

<u>Coefficients</u>		
D ₉₀ = 14.5756	D ₈₅ = 9.1740	D ₆₀ = 1.0057
D ₅₀ = 0.5225	D ₃₀ = 0.1692	D ₁₅ =
D ₁₀ =	C _u =	C _c =

USCS= SM	<u>Classification</u>	AASHTO= A-1-b
----------	-----------------------	---------------

Remarks

* (no specification provided)

Source of Sample: Boring Depth: 6-8'
 Sample Number: B-1, S1

Date: 03-11-26

Thielsch Engineering Inc.

Cranston, RI

Client: Joe Casali Engineering, Inc.
 Project: CNE Blvd. / HH Rd. Signal
 Coventry, RI

Project No: 74-26-0002.99

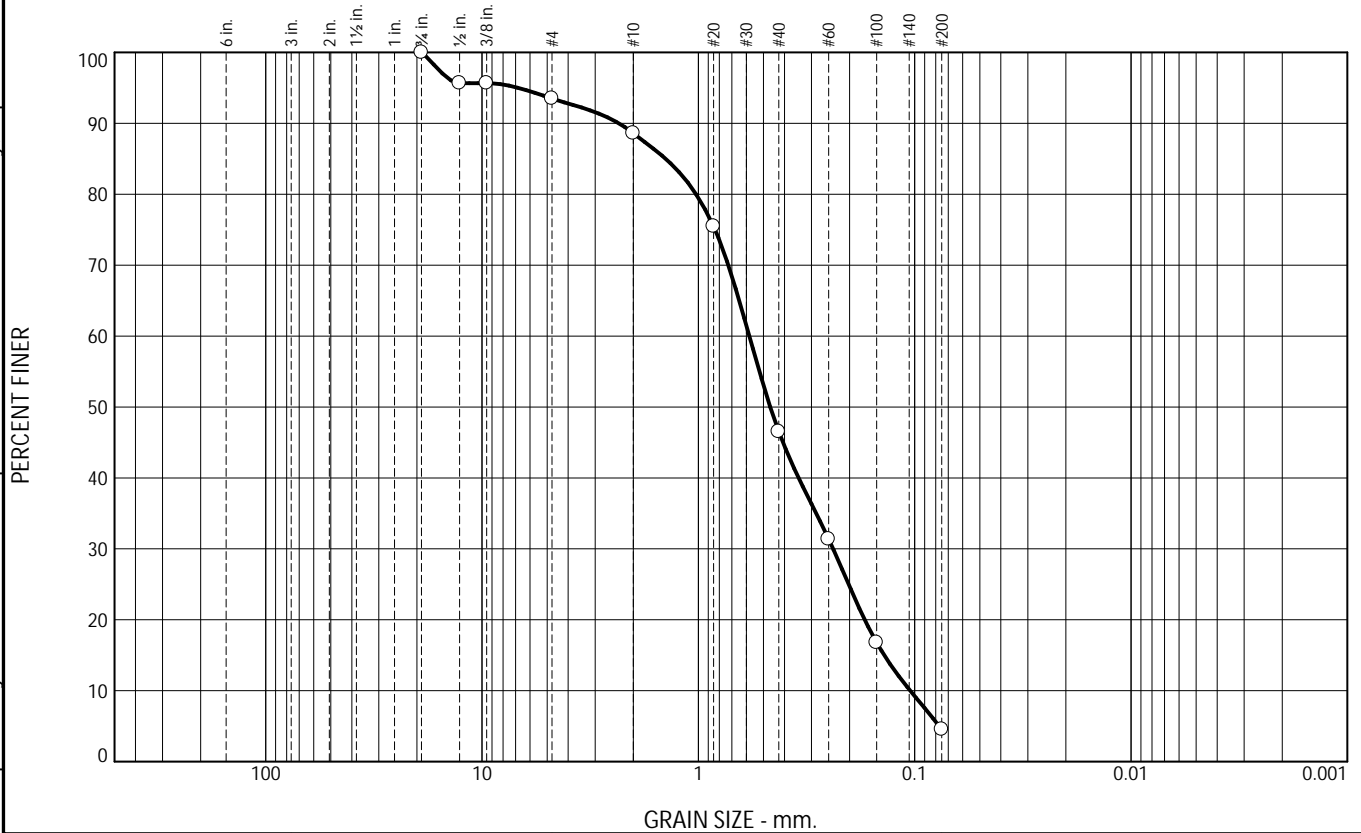
Figure S-601

Tested By: AB/DC/RKO

Checked By: Andrew Vanasse

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.5	4.9	42.1	42.0	4.5	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	95.7		
3/8"	95.7		
#4	93.5		
#10	88.6		
#20	75.5		
#40	46.5		
#60	31.4		
#100	16.8		
#200	4.5		

Soil Description

Light Brown poorly graded sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 2.3296 D₈₅= 1.4168 D₆₀= 0.5813
D₅₀= 0.4654 D₃₀= 0.2384 D₁₅= 0.1383
D₁₀= 0.1049 C_u= 5.54 C_c= 0.93

Classification

USCS= SP AASHTO= A-1-b

Remarks

* (no specification provided)

Source of Sample: Boring Depth: 16-18'
Sample Number: B-1, S6

Date: 03-11-26

Thielsch Engineering Inc. Cranston, RI	Client: Joe Casali Engineering, Inc. Project: CNE Blvd. / HH Rd. Signal Coventry, RI Project No: 74-26-0002.99
Figure S-602	

Tested By: AB/DC/RKO Checked By: Andrew Vanasse