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GENERAL NOTES:
1. THE LIMITS OF WORK FOR THIS PROJECT SHALL BE AS DETAILLED IN THE SPECIAL PROVISIONS AND SHOWN ON THE CONDUIT PLANS.
2. CLEAR AND THIN VEGETATION IN AREAS INDICATED TO PROVIDE MAXIMUM VISIBILITY OF ADJACENT CAMERAS.
3. SURFACE MOUNTED CONDUIT SHALL BE MOUNTED ON STRUCTURAL SURFACE, PARAPET, ABUTMENT OR PIER WALLS IN STRUCTURAL CONDUIT SHALL BE THAT CONDUIT INSTALLED UNDER THE BRIDGE DECK AND WITHIN THE GROUNDS SUPPORTED HIGH-VOLTAGE CABLE SHALL BE STRAPPED TO EXISTING SURFACE MOUNTED OR IN-STRUCTURAL CONDUIT.
4. THE CONTRACTOR SHALL CONTACT THE STATE ROADWAY AND TRAFFIC MONITORING STATIONS, TERMINATING AT PULLBOXES AND TYPE II CONCRETE HANDHOLES.
5. IN AREAS WHERE THE MAINLINE CONDUIT CROSSES THE EXISTING ILLUMINATION DUCT, THE CONTRACTOR WILL BE REQUIRED TO HAND EXCAVATE.
6. THE CONTRACTOR SHALL CONTACT THE STATE ROADWAY AND TRAFFIC MONITORING STATIONS, TERMINATING AT PULLBOXES AND TYPE II CONCRETE HANDHOLES.
7. THE CONTRACTOR SHALL CONTACT THE STATE ROADWAY AND TRAFFIC MONITORING STATIONS, TERMINATING AT PULLBOXES AND TYPE II CONCRETE HANDHOLES.
8. THESE PLANS DEPICT THE INSTALLATION OF A 4" (100) MULTI-DUCT CONDUIT TO ACCOMMODATE A FUTURE FIBER OPTIC CABLE AS WELL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL "CALL BEFORE YOU DIG" LOCATION RULES AND REQUIREMENTS PRIOR TO EXCAVATION.
10. THESE PLANS DEPICT THE INSTALLATION OF A 4" (100) MULTI-DUCT CONDUIT TO ACCOMMODATE A FUTURE FIBER OPTIC CABLE.
11. THE INSTALLATION OF A 4" (100) MULTI-DUCT CONDUIT SHALL INCLUDE AN EXPANSION COUPLING AND A SHIELD BOX.
12. AT ALL RAMP CROSSINGS, THE 4" (100) MULTI-DUCT CONDUIT SHALL BE INSTALLED ACROSS THE ROADWAY IN THE STRAIGHTEST MANNER POSSIBLE.
13. ALL PROPOSED HANDBORES SHALL BE TYPE II, EXCEPT WHERE NOTED.
14. AT SPECIFIED LOCATIONS SHOWN ON THE PLANS, THE 4" (100) MULTI-DUCT CONDUIT WILL SHARE THE MAINLINE CONDUIT WITH A 2" (50) RIGID METAL CONDUIT (RMC) FOR THE BRANCH CONDUIT OVERLAP RUNS. THESE 2" (50) RIGID METAL CONDUITS WILL SERVE AS FUTURE SERVICE CONNECTIONS FOR CCTV AND SMS LOCATIONS TERMINATING AT PULLBOXES AND TYPE II CONCRETE HANDHOLES.

TYPICAL CROSS SECTION NOTES:
TYPICAL CROSS SECTIONS AR IN AS SHOWN DETAILED TO SCALE AND ARE TO BE USED FOR INFORMATIONAL PURPOSES ONLY. THESE DETAILS DO NOT NECESSARILY REFLECT ALL OF THE SITE CONDITIONS IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE FIELD CONDITIONS AND SELECTING THE APPROPRIATE DETAIL FOR INSTALLATION OF THE CONDUIT.
**CLEVIS HANGER DETAIL**

**MALLEABLE IRON CONDUIT CLAMP**

(E100)

**G**

**FIELD DRILL 1/4" (16) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.**

**CLEVIS HANGER NOTES**

1. CLEVIS HANGERS SHALL BE AS SHOWN AND AS MANUFACTURED BY ITT GRINNELL CO., FIG. 260 OR APPROVED EQUAL. THE CLEVIS, INCLUDING ALL HARDWARE, THREADS RODS AND NUTS SHALL BE GALVANIZED. THE CLEVIS HANGE RODS SHALL BE A MINIMUM OF 1/2" (16) IN DIAMETER.

2. CHEMICAL ANCHORS - SYSTEM APPROVED BY CONN. D.O.T. WITH THREADED RODS AND NUTS SHALL BE STAINLESS STEEL.

3. FIELD DRILL 1/4" (16) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

**FIELD FASTENER NOTES**

1. FIELD DRILL HOLES IN CONCRETE STRUCTURES. HOLE DIAMETER & ANCHOR DEPTH TO BE IN ACCORDANCE WITH THE CHEMICAL ANCHORAGE MANUFACTURER'S RECOMMENDATIONS.

2. CHEMICAL ANCHORS - SYSTEM APPROVED BY CONN. D.O.T. WITH THREADED RODS AND NUTS AND WASHERS SHALL BE STAINLESS STEEL.

3. FIELD DRILL 1/4" (16) IN DIAMETER.

4. SPACE CLAMPS AT 60" (1500) MAXIMUM.

5. PACKERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193(M), CLASS 2, GRADE "F" (TYPE 316).

6. NUTS SHALL BE NYLON INSERT (220 NUTS AND COMPARE TO ASTM A193(M), GRADE 2 NYLON HARDWARE) TYPE 3, 416.

7. WASHERS SHALL CONFORM TO ASTM A207(M), TYPE 316, ANNEALED.

**CHANNEL CONDUIT SUPPORT NOTES**

1. MOUNT CONDUIT & CLEVIS HANGER ABOVE BOTTOM OF BEAMS (U.N.O.).

2. SEE "R.M.C. - STRUCTURE" DETAILS FOR ADDITIONAL INFORMATION.

3. FIELD DRILL 1/4" (16) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

**CHANNEL CONDUIT SUPPORT DETAIL**

**CLAMP & FIELD FASTENER, CLEVIS HANGER DETAILS**

**ONE HOLE CLAMP & FIELD FASTENER DETAILS**

**CLEVIS HANGER DETAIL**

**CHANNEL CONDUIT SUPPORT CONNECTION DETAIL**

**ELEVATION**

**SECTION**

**NOT TO SCALE**

**R.M.C. EXPANSION FITTING, WALL PENETRATION, CHANNEL CONDUIT SUPPORT CONNECTION, ONE HOLE CLAMP & FIELD FASTENER, CLEVIS HANGER DETAILS**
IDENTIFICATION POST DETAIL

WARNING TAPE

SIGN FACE DETAIL

CONDUIT IN LEVEL EARTH

IMS CONDUIT UNDER ILLUMINATION TRENCHING DETAILS

CONDUIT IN SLOPED EARTH

IMS CONDUIT & ILLUMINATION CABLE IN DUCT IN TRENCH WHERE SEPARATED AT RAMP CROSSINGS AND BRIDGE STRUCTURES (TYP.)

PLAN

TYPICAL TRENCH DETAILS FOR IMS CONDUIT

AT LIGHT STANDARD

AT PULL BOX

NOTES:

1. MUST BE ATTACHED TO SIGN FACE WITH "BEVELED END ALL SIDES".

2. SIGNS TO BE ATTACHED TO POST WITH "SIGN FACE ON ALL FOUR SIDES".

3. "SIGN FACE DETAIL"

4. "WARNING TAPE"

5. "IDENTIFICATION POST DETAIL"

6. "FIBER OPTIC COMMUNICATION CONDUIT BURIED BELOW CONTACT: CALL BEFORE YOU DIG 1-860-594-3447"

7. "UNDERGROUND WARNING TAPE "CAUTION FIBER OPTIC CABLE BURIED BELOW"."

8. "SIDE OF ROAD"

9. "RAMP CROSSINGS AND BRIDGE STRUCTURES (TYP.)"

10. "IMS CONDUIT & ILLUMINATION CABLE IN DUCT IN TRENCH WHERE SEPARATED AT RAMP CROSSINGS AND BRIDGE STRUCTURES (TYP.)"

11. "TYPICAL TRENCH DETAILS FOR IMS CONDUIT"

12. "AT LIGHT STANDARD"

13. "AT PULL BOX"

14. "CAUTION - FIBER OPTIC CABLE BURIED BELOW."

15. "SIGN FACE TO BE REFLECTORIZED ORANGE WITH BLACK LETTERS."

16. "SIGN FACE DETAIL"

17. "WARNING TAPE"

18. "IDENTIFICATION POST DETAIL"
CONDUIT CROSSING UNDER EXISTING UTILITY

TYPICAL GUIDE RAIL CROSSING

TYPICAL PULLBOX INSTALLATION - CONDUIT UNDER ROADWAY

TYPICAL IMS CONDUIT CROSSING DETAILS

NOTE:
THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A MINIMUM OF 120" (3000) OF FLEXIBLE CONDUIT ON EACH SIDE OF THE PULLBOX. THIS IS REQUIRED TO ENSURE THAT THE INNERDUCTS ENTERING AND EXITING THE PULLBOX WILL LINE UP AND BE PERPENDICULAR TO THE SIDEWALL OF THE PULLBOX.

NOTE:
THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE RADIUS OF THE INSTALLED FLEXIBLE METAL PIPE IS GREATER THAN THE MINIMUM ALLOWED FOR THE FIBER OPTIC CABLE.
NOTES:
1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION.
   FOR MORE DETAILS, REFER TO CIVIL DRAWINGS.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE,
   REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS.

ILLUMINATION CONDUIT AS SPECIFIED
ILLUMINATION HANDHOLE AS SPECIFIED
CONDUIT AS SPECIFIED ON TYPICAL INSTALLATION DETAIL SHEETS.

ELEVATION

PLAN VIEW
CONDUIT INSTALLATION ADJACENT TO BRIDGE PIER

CONCRETE BRIDGE PIER
CONCRETE MEDIAN BARRIER
2" (50) PVC MULTIDUCT CONDUIT
CONDUIT AS SPECIFIED ON TYPICAL INSTALLATION DETAIL SHEETS.

1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE,
   REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS.

4" (100) PVC INSTALLED IN MEDIAN
(TYPICAL SECTION)

WITH ILLUMINATION CONDUIT

PVC AND PULLBOX INSTALLED IN MEDIAN
(TYPICAL SECTION)

NOTES:
FOR MORE DETAILS, REFER TO CIVIL DRAWINGS.

1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE,
   REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS.

ILLUMINATION CONDUIT AS SPECIFIED
ILLUMINATION HANDHOLE AS SPECIFIED
CONDUIT AS SPECIFIED ON TYPICAL INSTALLATION DETAIL SHEETS.

ELEVATION

PLAN VIEW
CONDUIT INSTALLATION ADJACENT TO BRIDGE PIER

CONCRETE BRIDGE PIER
CONCRETE MEDIAN BARRIER
2" (50) PVC MULTIDUCT CONDUIT
CONDUIT AS SPECIFIED ON TYPICAL INSTALLATION DETAIL SHEETS.

1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE,
   REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS.

4" (100) PVC INSTALLED IN MEDIAN
(TYPICAL SECTION)

WITH ILLUMINATION CONDUIT

PVC AND PULLBOX INSTALLED IN MEDIAN
(TYPICAL SECTION)

NOTES:
FOR MORE DETAILS, REFER TO CIVIL DRAWINGS.

1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE,
   REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS.
1) Block unused openings of handhole on the outside with pressure treated plywood.
2) Grout around all conduits.
3) Use 2½" x ½" (60 x 12) concrete insert, standard thread, stainless steel, flat head bolt, recessed in plate cover. Inserts to have cleanouts.
4) Type II handhole 30" (760) side installed parallel to road unless otherwise noted.
5) Where an existing concrete sidewalk abutting a handhole is damaged, or cut during installation the entire section shall be replaced.
6) 12-#3 reinforcing bars required for all handholes.
GENERAL NOTES:
1) SUITABLE IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.
2) FOR EACH PULL BOX INSTALLED, ONE OF THE SPECIAL TOOLS REQUIRED TO OPEN THE HEX BOLTS SHALL BE PROVIDED TO THE STATE. COST OF TOOL IS INCLUDED IN THE ITEM FOR PULLBOX.
3) PULLBOXES SHALL BE INSTALLED SO THAT THE KNOCKOUTS ARE PARALLEL TO THE MAINLINE CONDUIT DIRECTION.

DESIGN CRITERIA:
LINE LOAD
PULLBOX AND COVER SHALL BE DESIGNED BY THE CONTRACTOR TO SUPPORT H2O LIVE LOAD WITH 30% IMPACT.

EARTH PRESSURE
AN EQUIVALENT FLUID PRESSURE (HORIZONTAL) OF NOT LESS THAN 53 lbs./S.F. (264 kg./Sq. m) SHALL BE USED FOR DESIGN.
SITE CONDITIONS MAY NECESSITATE MODIFICATIONS TO THE EQUIVALENT FLUID PRESSURE (I.E. SLOPING, BACKFILL, WATER TABLE ET CETERA). THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING THESE CONDITIONS WITH REGARDS TO DESIGN REQUIREMENTS.

AN EQUIVALENT FLUID PRESSURE (VERTICAL) OF NOT LESS THAN 2.4 lbs./S.F. (12 kg./Sq. m) SHALL BE USED FOR DESIGN.

TO HIGH DENSITY TRAFFIC.

1.  SUITABLE IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.
2.  FOR EACH PULL BOX INSTALLED, ONE OF THE SPECIAL TOOLS REQUIRED TO OPEN THE HEX BOLTS SHALL BE PROVIDED TO THE STATE. COST OF TOOL IS INCLUDED IN THE ITEM FOR PULLBOX.
3.  PULLBOXES SHALL BE INSTALLED SO THAT THE KNOCKOUTS ARE PARALLEL TO THE MAINLINE CONDUIT DIRECTION.

GENERAL NOTES:

PULL BOX - DETAIL

SECTION A-A
END VIEW

VAULT - DETAIL

SECTION A-A
END VIEW
CCTV ELEVATION SCHEMATIC

CCTV SCHEMATIC PLAN

LOWERING DEVICE AND CAMERA LOCATION SCHEMATICS
1. CAULK SEAM BETWEEN CABINET AND CONCRETE FOUNDATION.
2. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION, 36" X 36" (900 X 900), MIN. 4" (100) THICK
   (PLUS SIDEWALK, 1/4" PER FOOT (25 PER METER) AWAY FROM FOUNDATION AND INSTALL ON A MINIMUM E (150)
   HIRAM OR MERCIER BAGGAGE IN CONCRETE FOUNDATION.
3. DUCT SEAL ALL CONDUITS THAT CONTAIN CABLE CAP MADE UNILIZED CONDUITS.
4. VERIFY ANCHOR BOLT PATTERN WITH CABINET MANUFACTURER.
5. FRONT CABINET DOOR TO OPEN FIELD SIDE.
6. CABINET TO BE 170 TYPE.
7. FIELD CABLE FOUNDATION TO SUPPORT TRAFFIC MANAGEMENT SYSTEM CABINET OR MINI-HUB CABINET.
8. TRANSFORMER TO BE ATTACHED TO CABINET ON SAME SIDE AS METER LOCATION CABINETS WITH METERS
   SHOWN ON SITE PLANS SHALL NOT REQUIRE TRANSFORMERS.
9. SERVICE PANEL W/ CIRCUIT BREAKERS.

TRAFFIC CONTROL FOUNDATION NOTES - GENERAL:
1. INSTALL FOUNDATION ON 6" (150) COMPACTED GRAVEL, IN ACCORDANCE WITH SECTION 2.14.
2. LEVEL FOUNDATION WITH A PROJECTION OF 6" (150) AROUND FOUNDATION.
3. CONCRETE: CLASS "C" CONFORMING TO ARTICLE M.03-01.
4. #4 RE-BARS, 2" (50) MINS. COVER AROUND ALL OPENINGS. 3 - 4 RE-BARS IN EACH CORNER.
5. CONDUCTORS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
6. INSTALL A MINIMUM OF ONE SPARE 2" (50) ENSLEI IN THE FOUNDATION. SPARE SPACE SHALL EXTEND
   A MINIMUM OF 2" (50) OUTSIDE THIS FOUNDATION.
7. SERVICE PANEL W/ CIRCUIT BREAKERS.

TRAFFIC CONTROL FOUNDATION NOTES - PRE-CAST:
1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN
   INSTALLED. THE CONCRETE SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION
   AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.03-01-12.
2. WEAKEN KNOCKOUT WALLS FOR PIPE INSTALLATION IN FIELD.
3. BOLT DOWN CABINET WITH 3/8" (10) HEX HEAD BOLTS 3" (75) LONG.
4. INSTALL A 1/2" X 10" (30 X 250) COPPER GROUND CONDUIT.

TRAFFIC MANAGEMENT SYSTEM CABINET AND MINI-HUB CABINET NOTES:
1. CAULK SEAM BETWEEN CABINET AND CONCRETE FOUNDATION.
2. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION, 36" X 36" (900 X 900), MIN. 4" (100) THICK
   (PLUS SIDEWALK, 1/4" PER FOOT (25 PER METER) AWAY FROM FOUNDATION AND INSTALL ON A MINIMUM E (150)
   HIRAM OR MERCIER BAGGAGE IN CONCRETE FOUNDATION.
3. DUCT SEAL ALL CONDUITS THAT CONTAIN CABLE CAP MADE UNILIZED CONDUITS.
4. VERIFY ANCHOR BOLT PATTERN WITH CABINET MANUFACTURER.
5. FRONT CABINET DOOR TO OPEN FIELD SIDE.
6. CABINET TO BE 170 TYPE.
7. FIELD CABLE FOUNDATION TO SUPPORT TRAFFIC MANAGEMENT SYSTEM CABINET OR MINI-HUB CABINET.
8. TRANSFORMER TO BE ATTACHED TO CABINET ON SAME SIDE AS METER LOCATION CABINETS WITH METERS
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TRAFFIC CONTROL FOUNDATION NOTES - CAST IN PLACE:
1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN
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3. DUCT SEAL ALL CONDUITS THAT CONTAIN CABLE CAP MADE UNILIZED CONDUITS.
4. VERIFY ANCHOR BOLT PATTERN WITH CABINET MANUFACTURER.
5. FRONT CABINET DOOR TO OPEN FIELD SIDE.
6. CABINET TO BE 170 TYPE.
7. FIELD CABLE FOUNDATION TO SUPPORT TRAFFIC MANAGEMENT SYSTEM CABINET OR MINI-HUB CABINET.
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9. SERVICE PANEL W/ CIRCUIT BREAKERS.

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2. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION, 36" X 36" (900 X 900), MIN. 4" (100) THICK
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3. BOLT DOWN CABINET WITH 3/8" (10) HEX HEAD BOLTS 3" (75) LONG.
4. INSTALL A 1/2" X 10" (30 X 250) COPPER GROUND CONDUIT.
TRAFFIC CONTROL FOUNDATION NOTES, GENERAL:
1. INSTALL FOUNDATION ON 6" (150) COMPACTED GRAVEL, IN ACCORDANCE WITH SECTION 2.14.
2. LEVEL FOUNDATION WITH A PRODUCTION OF 6" (125) ABOVE FINISHED GRAVEL.
3. CONDUCTORS: CLASS "Y" (WIRING TO ARTICLE M 445) IN CONCRETE.
4. #4 RE-BAR 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.
5. CONDUCTORS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
6. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.

TRAFFIC CONTROL FOUNDATION NOTES, PRE-CAST:
1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) BASEMENT LEVEL WITH THE TOP OF THE FOUNDATION AND NEARLY LEVEL.
2. PORCH WATERPROOFING LACQUER ON FOUNDATION AND INSTALL ON A MINIMUM 6" (150) GRAVEL OR MISCELLANEOUS AGGREGATE BASE, COMPACTED.
3. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION 36" X 36", 4" THICK MIN. (900 X 900, 100 THICK MIN.). PITCH SIDEWALK ❄" PER FOOT.
4. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.
5. CONDUCTORS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
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9. #4 RE-BAR 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.

TRAFFIC CONTROL FOUNDATION NOTES, GENERAL:
1. INSTALL FOUNDATION ON 6" (150) COMPACTED GRAVEL, IN ACCORDANCE WITH SECTION 2.14.
2. LEVEL FOUNDATION WITH A PRODUCTION OF 6" (125) ABOVE FINISHED GRAVEL.
3. CONDUCTORS: CLASS "Y" (WIRING TO ARTICLE M 445) IN CONCRETE.
4. #4 RE-BAR 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.
5. CONDUCTORS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
6. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.

TRAFFIC CONTROL FOUNDATION NOTES, PRE-CAST:
1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) BASEMENT LEVEL WITH THE TOP OF THE FOUNDATION AND NEARLY LEVEL.
2. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.

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VMS FOUNDATION WORK IN MEDIAN AND WITH EXISTING SHOULDER

NOTES:

1. EXISTING CONFlicting PAINT MARKINGS SHALL BE REMOVED OR COVERED, INCLUDING THOSE PAINT MARKINGS OUTSIDE OF THE TRAVELWAY.
2. THE APPROPRIATE TYPE DE-7 AND DE-7A DELINEATORS SHALL BE INSTALLED ON THE TEMPORARY PRECAST CONCRETE BARRIER CURB AS SPECIFIED ON THE STANDARD DRAWING "TYPICAL DELINEATION AND DELINEATOR AND OBJECT MARKER DETAILS".
3. EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER ITEM #097101A-MAINTENANCE AND PROTECTION OF TRAFFIC.
4. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED, OR REVISED TO MEET FIELD CONDITIONS.
5. THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
6. TEMPORARY SIGNS SHALL BE MOUNTED ON HORIZONTAL SUPPORTS.
7. THE LOCATIONS OF THE TRAFFIC DRUMS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
8. THE HEIGHT OF THE TEMPORARY SHEET PILING SHALL NOT EXTEND ABOVE THE HORIZONTAL PAY LIMITS TO BE ANNOUNCED AND HEIGHT OF THE TEMPORARY PRECAST CONCRETE BARRIER CURB.
9. AS DIRECTED BY THE ENGINEER, INSTALL SERIES 16, ROAD WORK AHEAD - FINES DOUBLED, ROAD WORK AHEAD, AND SHOULDER CLOSED AHEAD.

VMS FOUNDATION WORK IN TRAVEL LANE AND SHOULDER

NOTES:

1. EXISTING CONFlicting PAINT MARKINGS SHALL BE REMOVED OR COVERED, INCLUDING THOSE PAINT MARKINGS OUTSIDE OF THE TRAVELWAY.
2. THE APPROPRIATE TYPE DE-7 AND DE-7A DELINEATORS SHALL BE INSTALLED ON THE TEMPORARY PRECAST CONCRETE BARRIER CURB AS SPECIFIED ON THE STANDARD DRAWING "TYPICAL DELINEATION AND DELINEATOR AND OBJECT MARKER DETAILS".
3. EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER ITEM #097101A-MAINTENANCE AND PROTECTION OF TRAFFIC.
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7. THE LOCATIONS OF THE TRAFFIC DRUMS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
8. THE HEIGHT OF THE TEMPORARY SHEET PILING SHALL NOT EXTEND ABOVE THE HORIZONTAL PAY LIMITS TO BE ANNOUNCED AND HEIGHT OF THE TEMPORARY PRECAST CONCRETE BARRIER CURB.
9. AS DIRECTED BY THE ENGINEER, INSTALL SERIES 16, ROAD WORK AHEAD - FINES DOUBLED, ROAD WORK AHEAD, AND SHOULDER CLOSED AHEAD.
1. SIGNS TO BE FURNISHED BY THE DEPARTMENT AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SIGN ORDER AND INSTALLATION. THE CONTRACTOR SHALL CALL (860) 258-4675 TO REQUEST SIGN ORDER.

2. REFER TO TYPICAL SHEETS ENTITLED "POST MOUNTED SIGNS ON BREAKAWAY COUPLING SYSTEM".

3. REFER TO STANDARD SHEETS ENTITLED "SIGN FACE SHEET ALUMINUM, LARGE SIGN ACCESSORY AND MOUNTING DETAILS." INSTALLATION. THE CONTRACTOR SHALL CALL (860) 258-4675 TO REQUEST SIGN ORDER.

4. SIGNS SHALL BE ORDERED FROM DOT SIGN CATALOG #52-5910 AND 41-5905.

5. SIGNS TO BE INSTALLED BY THE CONTRACTOR USING DOUBLE SIDED MOUNTING TAPE.

6. CONTRACTOR TO SUPPLY AND INSTALL STEEL SIGN SUPPORTS, STEEL SIGN SUPPORT FOUNDATIONS, PAGER AND PAGER CONTROL ENCLOSURE, BATTERY CABINET, BATTERY BACKUP ENCLOSURE, FLEXIBLE CONDUIT, MOUNTING HARDWARE AS NEEDED AND DOUBLE SIDED TAPE.

7. STEEL SIGN SUPPORTS AND STEEL SIGN SUPPORT FOUNDATIONS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

AS REQUIRED IN STATE TYPICAL DRAWINGS.

ALL EQUIPMENT TO BE MOUNTED TO SIGN POST BY FIELD DRILLING AND WELDING DIRECTLY TO STEEL.
HAR STATION AND GROUND PLANE PLAN

FIBERGLASS UTILITY POLE DETAIL

TRIAD ALTERNATE GROUND PLANE

HAR STATION ELEVATION

FIBERGLASS UTILITY POLE FOUNDATION DETAIL

HAR GROUND PLANE AND POLE INSTALLATION PLANS

Pole Foundation Notes:
1. If any field conditions precluded compliance with the drawings and/or conditions specified, the Contractor shall immediately notify the engineer and shall not proceed with any excavation work. Contractor shall provide reasons and recommendations in writing for approval to change.
2. The Contractor shall notify the Engineer 7 days prior to the installation of the reinforcing cage and the concrete pour.
3. Install anchor bolts per manufacturer's recommendations.
4. Concrete operations shall start as soon as possible after completion of the excavation. The bottom of the excavated hole shall be clean with no standing water.
5. Depth of the pole foundations shown is minimum.
6. All portions of the foundations which will remain exposed to view shall be neatly finished with a smooth finish and given a brushed finish. All exposed edges of concrete foundations to vary 1 x 1 x (2 x 2) (60 x 60) as shown.
7. Foundations to be paid for under the item "Traffic Control Foundation — Span Pole Type B".
8. All reinforcing shall be deformed steel bars and conform to ASTM A615m Grade 400.
9. Concrete for pole foundations shall be Class "A" concrete.
10. Non-shrink grout shall conform to Form M-815, Section M-03.01-12.
11. Anchor bolts for the poles shall conform to ASTM A193. The anchor bolts nuts and washers shall be galvanized after fabrication in accordance with ASTM A193 Class 83.

Ground Plane Notes:
1. 2" (50) PVC conduit from the weatherproof enclosure to the first handhole outside the ground plane shall be included in the bid price for the first handhole. 2" (50) PVC and trenching & backfill beyond the first handhole shall be paid at the contract unit price for each item.
2. Ground floor: 4" (100) common clay.
3. Ground pipe: 4" (100) common clay 8" (200) long each.
4. Ground pipe to be buried 4" (100) below grade.
5. Bond all radials around post in the ground. Run 3 ground wires up utility pole and connect inside enclosure.
6. A wagon wheel type pattern (as shown) is typical. However, alternate patterns may be used as site conditions dictate. Without prior written approval, Contractor shall not deviate from the drawing layout.
7. All reinforcing shall be deformed steel bars and conform to ACEM 421E, Section M-03.01-12. The reinforcement shall be included in the pay item "Fiberglass Utility Pole".
8. All portions of the foundations which will remain exposed to view shall be neatly finished with a wood float and given a brushed finish. All exposed edges of concrete foundations to vary 1 x 1 x (2 x 2) (60 x 60) as shown.
9. Concrete for pole foundations shall be Class "A" concrete.
10. Non-shrink grout shall conform to Form M-815, Section M-03.01-12.
11. Anchor bolts for the poles shall conform to ASTM A193. The anchor bolts nuts and washers shall be galvanized after fabrication in accordance with ASTM A193 Class 83.

Pole Installation Detail:
1. If any field conditions precluded compliance with the drawings and/or conditions specified, the Contractor shall immediately notify the engineer and shall not proceed with any excavation work. Contractor shall provide reasons and recommendations in writing for approval to change.
2. The Contractor shall notify the Engineer 7 days prior to the installation of the reinforcing cage and the concrete pour.
3. Install anchor bolts per manufacturer's recommendations.
4. Concrete operations shall start as soon as possible after completion of the excavation. The bottom of the excavated hole shall be clean with no standing water.
5. Depth of the pole foundations shown is minimum.
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11. Anchor bolts for the poles shall conform to ASTM A193. The anchor bolts nuts and washers shall be galvanized after fabrication in accordance with ASTM A193 Class 83.
NOTES:
1. NEWLY INSTALLED WOOD POLES SHOWN. INSTALLATIONS TO EXISTING UTILITY POLES OMITTED.
2. ENSURE THE ATTACHMENT POINT HAS CLEARANCES OF AT LEAST 4'-0" (1200) BELOW LOWEST UTILITIES AND AT LEAST 4'-0" (1200) ABOVE HIGHTEST UTILITIES ATTACHMENTS, UNLESS OTHERWISE DIRECTED ON PLANS.
3. SPLICE CASING SHALL BE PADDED UNDER THE IHEM FIBER OPTIC CABLE SPACE ENCLOSURE.

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