<table>
<thead>
<tr>
<th>NEW</th>
<th>EXISTING</th>
<th>SIGNAL TYPES</th>
</tr>
</thead>
<tbody>
<tr>
<td>TRAFFIC SIGNAL POLE</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>PEDESTAL POLE</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>POLE W/MAST ARM</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>VEHICLE SIGNAL HEAD</td>
<td>↓</td>
<td>↓</td>
</tr>
<tr>
<td>VEHICLE SIGNAL HEAD W/BACK PLATE</td>
<td>↓</td>
<td>↓</td>
</tr>
<tr>
<td>PEDESTRIAN SIGNAL HEAD</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>PEDESTRIAN PUSH BUTTON</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>PULL BOX - TYPE A</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>PULL BOX - TYPE B</td>
<td>□</td>
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<tr>
<td>PULL BOX - TYPE C</td>
<td>□</td>
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<tr>
<td>PULL BOX - TYPE B W/EXTENSION</td>
<td>○</td>
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</tr>
<tr>
<td>CONDUIT</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>VIDEO DETECTION CAMERA</td>
<td>CM</td>
<td>CM</td>
</tr>
<tr>
<td>PRE-EMPT SENSOR</td>
<td>△</td>
<td>△</td>
</tr>
<tr>
<td>LUMINAIRE</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>LUMINAIRE W/PHOTO CELL</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CONTROLLER CABINET</td>
<td>■</td>
<td>■</td>
</tr>
<tr>
<td>METERED POWER PEDESTAL</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>POLE MOUNTED METER</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>FIBER OPTIC CONDUIT</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>MAST ARM SIGN</td>
<td>↓</td>
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</tr>
</tbody>
</table>

**SIGNAL TYPES**

- R
- Y
- G
- V3
- V3L
- V3U
- H3
- H3L
- RY
- G
- H3U
- RYG
- H4T
- RYG
- H4F
- RYG
- H5L
- RYG
- H5R
- 18
- FL-R
- HA8K
- Y
- FL-Y
- CDP
- R10-3e

**NOTE:**

All traffic signal head types have 12-inch lenses.

**CITY OF HOUSTON**

**HARDWARE LEGENDS**

(Not to Scale)

Signed:

CITY ENGINEER

DOW NO: 02893-02
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TYPICAL MAST ARM / POLE FIXTURE CONFIGURATION

NOT TO SCALE

NOTE:
1. ALL MATERIALS AND CONSTRUCTION SHALL COMFORM TO THE REQUIREMENTS STATED ON "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD.
2. REFER TO "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD DETAIL FOR ANCHOR BOLT DETAILS.

2-WIRE POLARA NAVIGATOR
PUSH BUTTON STATION
WITH R10-3e SIGN

DETAIL "B"

TYPICAL PEDESTRIAN SIGNAL HEAD ON TRAFFIC POLE

DETAIL "A"

FOUNDATION PLAN

FOUNDATION TYPE 24-A

SECTION A-A

SECTION B-B

PEDESTRIAN PUSH BUTTON POLE

11 3/8" DIA.
2 3/8" DIA.

TYP DIA. BOLT CIRCLE

24" DIA.

NOTE:
1. ALL MATERIALS AND CONSTRUCTION SHALL COMFORM TO THE REQUIREMENTS STATED ON "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD.
2. REFER TO "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD DETAIL FOR ANCHOR BOLT DETAILS.

2-WIRE POLARA NAVIGATOR
PUSH BUTTON STATION
WITH R10-3e SIGN

DETAIL "B"

TYPICAL PEDESTRIAN SIGNAL HEAD ON TRAFFIC POLE

DETAIL "A"

FOUNDATION PLAN

FOUNDATION TYPE 24-A

SECTION A-A

SECTION B-B

PEDESTRIAN PUSH BUTTON POLE

11 3/8" DIA.
2 3/8" DIA.

TYP DIA. BOLT CIRCLE

24" DIA.

NOTE:
1. ALL MATERIALS AND CONSTRUCTION SHALL COMFORM TO THE REQUIREMENTS STATED ON "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD.
2. REFER TO "PEDESTAL POLE WITH DRILLED SHAFT FOUNDATION" STANDARD DETAIL FOR ANCHOR BOLT DETAILS.
GENERAL NOTES:

1. DESIGN IS FOR CITY OF HOUSTON STANDARD TRAFFIC SIGNAL MAST ARM SUPPORT STRUCTURES BY VALMIER INDUSTRIES, INC.
2. DESIGN CONFORMS TO 2001 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNS" AND INTERIM REVISIONS THEREIN FOR A 80 MPH WIND ZONE WITH A 1.3 DUST FACTOR AND ACI "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-02).  
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
4. CONCRETE SHALL BE #6 SACK, 3600 PSI.
5. ALL ANCHOR BOLTS SHALL BE GALVANIZED. THE ENTIRE LENGTH OF BOLT, EXPOSED NUTS AND WASHERS SHALL ALSO BE GALVANIZED.

INSTALLATION PROCEDURE

THREDS OF ANCHOR BOLTS SHALL BE COATED WITH PIPE JOINT COMPOUND PRIOR TO INSTALLATION OF UPPER NUTS WHEN DEACTIVATING POLE. AFTER POLE IS PLUMB AND IN PERMANENT ALIGNMENT, THE EXPOSED THREADS OF PLANTED BOLTS SHALL BE CLEANED AND AN ADDITIONAL COATING OF ZINC-RICH PAINT APPLIED TO SEAL THE BOLT THREAD-NUT JUNCTION.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

POLE FOUNDATION DETAILS

(NOT TO SCALE)

DESIGN ENGINEER: C. T. ROBERTS

POLICEMAN: T. M. ROBERTS

D.P.W. NO. 02893-05

REV. DATE: JUL-01-2018

POLE MARK

DRILLED SHEATH DIA.

REINFORCING STEEL

DRILLED SHEATH LENGTH - FEET

BOLT CIR. DIA.

FOUNDATION DESIGN LOADS (k)

PREFERRED SHEAR TORQUE KIP-FT.

KIP-

POLE MARK

HOU 1

30°

8-#9 3/8 @ 9°

14'-0"

18°

72.2

3.4

51.9

MAST ARM ASSEMBLY (25'-35') IN COHESIVE SOILS

HOU 2

30°

8-#9 3/8 @ 9°

18'-0"

18°

80.9

4.0

98.0

MAST ARM ASSEMBLY (25'-55') IN NON-COHESIVE SOILS

STANDARD FOUNDATION TABLE NOTES:

(1) FOUNDATION DESIGN LOADS ARE THE ALLOWABLE MOMENTS, SHEARS AND TORQUES AT THE TOP OF THE FOUNDATION.
(2) CONSTRUCT IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION SECTION 02465, "DRILLED SHAFT FOUNDATIONS".
(3) FOUNDATION DESIGN IS BASED UPON A UNDRAINED SHEAR STRENGTH OF 1500 PSF FOR COHESIVE SOILS AND A TEXAS CORE PENETROMETER MINIMUM OF 10 BLOWS/Foot IN NON-COHESIVE SOILS. WHERE COHESIVE AND NON-COHESIVE LAYERS EXIST WITHIN THE SPECIFIED SHAFT LENGTH, THE NON-COHESIVE SOILS SHALL GOVERN. LOWER SOIL PARAMETERS WILL REQUIRE A SPECIAL DESIGN.

FOUNDATION DETAILS

1/4" TO 1/2" OF CONCRETE PROJECT ABOVE CONCRETE

CIRCULAR STEEL TEMPLATE (TEMPORARY)

ANCHOR BOLTS BY POLE MANUFACTURER INSTALLED BY CONTRACTOR

ROD 90 DEG. ELBOWS - TYPICAL

5/8" x 10" COPPER CLAD STEEL GROUND ROD

BOND GROUND ROD TO REBAR CAGE

VERTICAL BARS (SEE DESIGN TABLE FOR SIZE & NUMBER)

VERTICAL BARS MAY REST ON TOP OF DRILLED HOLE IF MATERIAL IS FIRM ENOUGH TO DO SO WHEN CONCRETE IS PLACED.

PREFERRED TEMPLATE SPACING 624 MIN PENETRATION (TYP)

CONDUIT (AS REQ.)

SPIRAL 3 FLAT TURNS TOP 6 & 1 FLAT TURN BOTTOM

GROOVE RODS

CONCRETE

GROUND ROD

1/4" CONTINUOUS STEEL TEMPLATE WITH HOLES 1/16" GREATER THAN BOLT DIAMETER

VERTICAL BARS 1/4" X SEGMENTED STEEL TEMPLATE WITH HOLES 1/16" GREATER THAN BOLT DIAMETER

TOP VIEW

NOTE:

1. b = MINIMUM STEEL TEMPLATE WIDTH EQUAL TO TWO TIMES ANCHOR BOLT DIAMETER
2. STEEL TEMPLATE MAY BE OF CONTINUOUS WIDTH OR SEGMENTED WIDTH
3. SET FOUNDATION DESIGN TABLE FOR BOLT CIRCLE DIAMETER
4. BOLTS SHOULD BE CHECKED FOR PLUMB BEFORE CONCRETE IS POURED AND BEFORE INITIAL SET.
NOTES:
1. DETAILS DEPICTED ON THIS SHEET SHOW A TYPICAL PEDESTAL POLE ASSEMBLY WITH SCREW-IN TYPE ANCHOR FOUNDATIONS TO BE UTILIZED FOR SCHOOL ZONE FLASHERS ONLY.
2. THE PEDESTAL POLE ASSEMBLY DEPICTED ON THIS SHEET IS DESIGNED FOR SIGNAL HEADS WHERE ELECTRICAL POWER IS NEEDED WITH A BREAKAWAY POLE.
3. PROVIDE BREAKAWAY FUSE HOLDER WITH DOUBLE-POLE HOUSING. DISCONNECT BREAK AWAY HOLDER ONopes WATER-RESISTANT. DISCONNECT BREAK AWAY HOLDERTYPE OF 50 AMP ELECTRIC CURRENT CAPACITY AT 600 VOLT OR LESS. PROVIDE BREAKAWAY FUSE HOLDER FROM MANUFACTURERS PRE-QUALIFIED BY THE TRAFFIC OPERATIONS DIVISION. SEE HTTP://WWW2DOTSTATE.TX.US/BUSINESS/PRODUCTS
4. USE THE LIST-TM FOR LIST OF PRE-QUALIFIED MANUFACTURERS, CATEGORY IS "BREAKAWAY ILLUMINATION AND ELECTRICAL SUPPLIES" PROVIDE 10 AMP TIME DELAY FUSES.
5. UNLESS OTHERWISE SHOWN ON THE PLANS, PROVIDE POLE SHAFT AND BREAKAWAY BASE IN ACCORDANCE WITH THE REQUIREMENTS LISTED IN TEXAS DEPARTMENT OF TRANSPORTATION (TDOT) STANDARD SPECIFICATION ITEM "PEDESTAL POLE ASSEMBLY"
6. SEE TDOT SPECIAL SPECIFICATION 4953 (SS 4953) "SCREW-IN TYPE ANCHOR FOUNDATION" FOR FURTHER REQUIREMENTS.
7. PROVIDE SIGNAL HEADS AND MOUNTING AS SHOWN ELSEWHERE ON THE PLANS.
8. CONDUIT IN FOUNDATION AND WITHIN 8 IN. OF FOUNDATION IS SUBSIDIARY TO STANDARD SPECIFICATION ITEM "PEDESTAL POLE ASSEMBLY".
9. POLE SHAFT SHALL BE ONE PIECE. ALUMINUM CONDUIT WILL NOT DEVELOP THE NECESSARY STRENGTH AND WILL NOT BE ALLOWED. IN HIGH WINDS USE A HORIZONTAL COLLAR ASSEMBLY TO ADD STRENGTH AND PREVENT LOOSING ON CONNECTION.
10. PER MANUFACTURER'S RECOMMENDATIONS, ENGAGE ALL THREADS ON THE PEDESTAL POLE BASE AND PIPE UNLESS THE PIPE IS FULLY SEATED INTO BASE.

Access Door Approx. 9" x 11"

Top Bolt Circle (B.C.)

Door Fastener 1 1/2"-13UNC x 1" Lo. 3/8 Hex Head Bolt w/ Clip

Bottom Bolt Circle (B.C.)

Transformer Base

1/2"-13UNC Tapped thru hole for grounding

4 1/2" D.D. X 15" CALV. STEEL PIPE

2 1/4" X 2 3/8" SLOT

3/8" PLATE FLAT + 1/8" WARP

4 3/4" D.D. CALV. STEEL PIPE

2 3/8" ROUND HOLE (NOT TO SCALE)

SECTION A-A

SECTION B-B

PEDESTAL POLE

BREAKAWAY IN-LINE FUSE HOLDERS

BREAKAWAY BASE DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PEDESTAL POLE WITH SCREW-IN ANCHOR FOUNDATION (FOR SCHOOL ZONE FLASHERS ONLY) (NOT TO SCALE)

TRAFFIC ENGINEER
DIRECTOR OF HOUSTON PUBLIC WORKS

EFFECTIVE DATE: JUL-01-2018

OBJ NO. 02893-06
APRON FOR PULL BOXES

1. Final position of end of conduit shall not exceed one-half the distance to the side of box opposite the conduit entry.
2. Place gravel, "under", the box, not "in" the box. Gravel should not encroach on the interior volume of the box.
3. Install bushing on the upper end of all ells.
4. Provide a 5/8" ground rod in all pull boxes and connect it to any and all equipment grounding conductors using a listed connector.
5. Maintain sufficient space between all conduits so as to allow for proper installation of bushings.
6. All conduits shall be installed in a neat and workmanlike manner.
7. All conduits installed in the ground box shall be sealed after completion of conductor installation and any required pull tests. Silicone shall not be used as the sealant.

Nominal dimensions for traffic signal pull boxes:

<table>
<thead>
<tr>
<th>Type</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector Type A</td>
<td>13&quot;</td>
<td>18&quot;</td>
<td>24&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>Traffic Signal Type B</td>
<td>17&quot;</td>
<td>30&quot;</td>
<td>24&quot;</td>
<td>12&quot;</td>
</tr>
</tbody>
</table>
| Communication Type C  | 26"| 38"| 24"| 12"

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PULL BOXES

(Not to scale)
1) Contractor shall use Pelco parts or an approved equal.
2) Contractor shall furnish all hardware for a complete installation.
3) The 90 degree span wire clamps (saddles) are attached to tethers (sway cables).
4) Contractor shall furnish one (1) adjustable free swinging sign hangers per street name sign smaller than 3'-0". Signs 3'-0" to 8'-0" require two (2) hangers. Signs larger than 8'-0" require three (3) hangers.
5) See sign mounting series for street name sign details.

TYPICAL SPAN WIRE SIGN HANGER DETAILS

<table>
<thead>
<tr>
<th>Sign Length (L)</th>
<th>Tube Length (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1'-0&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>2'-0&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>3'-0&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>30&quot;</td>
</tr>
</tbody>
</table>

Maximum Sign Height: 48"

GUSSETED TUBE CROSS SECTION

<table>
<thead>
<tr>
<th>Sign Length (L)</th>
<th>Tube Length (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-0&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>16&quot;</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>18&quot;</td>
</tr>
<tr>
<td>6'-0&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>7'-0&quot;</td>
<td>28&quot;</td>
</tr>
<tr>
<td>8'-0&quot;</td>
<td>30&quot;</td>
</tr>
</tbody>
</table>

Maximum Sign Height: 24"

<table>
<thead>
<tr>
<th>Sign Length (L)</th>
<th>Tube Length (T)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8'-0&quot;</td>
<td>10&quot;</td>
</tr>
<tr>
<td>9'-0&quot;</td>
<td>12&quot;</td>
</tr>
<tr>
<td>10'-0&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>11'-0&quot;</td>
<td>16&quot;</td>
</tr>
</tbody>
</table>

Maximum Sign Height: 16"

Sign square footage not to exceed rotational capacity defined by mounting hardware manufacturer.

TYPICAL MAST ARM SIGN MOUNT DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

OVERHEAD STREET NAME SIGN MOUNTING DETAILS

(NOT TO SCALE)

SIGN CLAMP DETAIL

CITY TRAFFIC ENGINEER
DIRECTOR OF
HOUSTON PUBLIC WORKS

OFF DATE: JUL-01-2018
DRAW NO. 02883-09
VIDEO DETECTION NOTES

1. VIDEO DETECTION PROCESSOR UNIT SHALL BE INSTALLED INSIDE CONTROLLER CABINET.
2. VIDEO DETECTION CAMERA & BRACKET SHALL BE INSTALLED AS DETAILED OR AS DIRECTED BY THE VIDEO DETECTION SUPPLIER.
3. CAMERAS SHALL BE MOUNTED AS FAR OVER THE ROADWAY AS POSSIBLE.
4. 5/16" (MIN.) STAINLESS STEEL BANDING MATERIAL SHALL BE USED TO INSTALL CAMERA MOUNTS.
5. WHEN AIMING CAMERA, HORIZON SHALL NOT BE VISIBLE IN THE FIELD OF VIEW.
6. CAMERA ENCLOSURE ASSEMBLY SHALL BE ROTATABLE AFTER INSTALLATION TO PROVIDE PROPER ALIGNMENT.
7. ALL CABLE ENTRY AND EXIT POINTS IN THE MAST ARM AND/OR POLES SHALL BE WATER TIGHT.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

VIDEO CAMERA MOUNTING DETAILS

(NOT TO SCALE)

* 4' PIPE EXTENSION WHEN MOUNTED ON TRAFFIC SIGNAL MAST ARM

[Diagram of camera assembly consisting of camera, lens, enclosure, sunshield and bracket assembly]
NOTES FOR SPREAD SPECTRUM ANTENNAS:

1. MOUNT ANTENNAS TO PROVIDE THE HIGHEST LEVEL OF RELIABILITY BETWEEN SENDING AND RECEIVING UNITS.
2. PERFORM A PATH STUDY TO DETERMINE EXACT MOUNTING LOCATION OF ANTENNAS BY RADIO SUPPLIER.
3. INSTALL ANTENNAS AS DETAILED OR AS DIRECTED BY THE SPREAD SPECTRUM RADIO SUPPLIER.
4. FURNISH MOUNTING BRACKETS FOR ANTENNAS ATTACHED TO VERTICAL PIPE AS RECOMMENDED BY SPREAD SPECTRUM RADIO SUPPLIER.
5. UNLESS NOTED, USE 3/8" STAINLESS STEEL BANDING MATERIAL TO INSTALL ANTENNA MOUNTS.
6. PROVIDE WATER TIGHT CABLE ENTRY AND EXIT POINTS IN THE TRAFFIC SIGNAL, MAST ARM AND/OR POLES.
7. FOR SPREAD SPECTRUM COAX OR HELIX CABLE ATTACHED TO LUMINAIRE ARM, PROVIDE UV STABILIZED TIE-WRAP THAT IS APPROVED FOR OUTDOOR USE.

# 4" PIPE EXTENSION WHEN MOUNTED ON TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM.
** 3/8" (9MM) STAINLESS STEEL BANDING 2 PLACES MIN.
*** ENTRY INTO STEEL POLE OR CONDUIT WEATHERHEAD ON WOOD POLE.

NOTE: DRAWING TO SCALE.
GENERAL NOTES:
1. The Pedestal Service shall be Type 3, and shall be constructed of a minimum of 12 gauge stainless steel, or aluminum as required. Stainless steel shall not be painted. For aluminum, the finish shall be an electrostatically-applied polyurethane baked on powder, light green in color, or color as shown elsewhere and as approved by the Engineer. The front of the interior (dead front trim) shall be permanently labeled, tamper-high voltage with style label. The exterior of the Pedestal Service door shall be permanently labeled with a placard as to its use (i.e. roadway lighting, traffic signals, etc.). Placard shall be neat and professional in appearance. Lettering shall be 1/2" minimum height.
2. Utility access door shall have stainless steel, piano hinge and provisions for padlocking.
3. Pedestal door shall have stainless steel, piano hinge and stainless steel latch with provisions for padlocking.
4. Meter access shall be hinged and capable of padlocking.
5. All hinging hardware and installation details of services shall be in accordance with utility company specifications. The contractor is responsible for contacting the local utility company and obtaining their approval of Pedestal details prior to making submittals to the city and prior to constructing the electrical, Pedestal service. Any changes required by the utility company shall be noted on the submittals.
6. Meter socket shall be a minimum of 100 amp rating and shall comply with the local utility requirements.
7. Photovoltaic control shall meet the requirements as shown on ESQ. Shield to control stray light is allowable. The contractor shall be responsible for proper operation of the Photovoltaic control. The contractor shall move and/or adjust or shield the Photovoltaic from stray or ambient nighttime light or shall make any other adjustments required for proper operation. The Photovoltaic shall face north when practicable, unless otherwise shown on the plans. The Photovoltaic shall turn on the illumination system at 0.5-3.0 footcandle and turn off the illumination system at two footcandles higher than turn on.
8. The control station (K-O Switch) shall be shown on TDOT standard except that K-O Switch operating handle shall protrude through hinged deadfront trim and NEMA 1 enclosure will not be required.
9. Concrete for Pedestal Service Foundation shall be Class A or C, and shall be in accordance with TDOT Item 430, "Concrete Structures". Except that concrete will not be paid for directly but shall be considered incidental.
10. Reinforcing steel shall be in mesh in accordance with TDOT Item 440, "Reinforcing Steel".
11. Anchor bolts shall be as shown in accordance with Item 446, "Anchor Bolts". Anchor bolts shall be #12, 2 inch x 12 inches x 4 inches (2a, x length x hook length).

NOTE: ALL IN FOUNDATION ARE RING METAL SIZE CALL FOR ON THE PLANS. EXTENSION CONDUIT FROM THESE ELLS MAY BE NO POINTED INCHES FROM THE TOP OF THE FOUNDATION. WHERE EXTENSION CONDUIT ARE METAL, GROUNDING WIRING SIZE AND TYPE AS SHOWN IN THE ELECTRICAL SERVICE DATA.

SECTION A-A

LEGEND
1. METER SOCKET, "R" (when required)
2. METER SOCKET, "T" (when required)
3. EQUIPMENT MOUNTING PANEL
4. PHOTO ELECTRIC CONTROL, WINDOW (when required)
5. HINGED DEADFRONT TRIM
6. LOAD SIDE CONDUIT AREA
7. LINE SIDE CONDUIT AREA
8. UTILITY ACCESS DOOR, WITH HANDLES
9. PEDESTAL DOOR
10. HINGED METER ACCESS
11. CONTROL STATION (K-O Switch)
12. MAIN DISCONNECT
13. BRANCH CIRCUIT BREAKERS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS
ELECTRICAL SERVICE SUPPORT PEDESTAL SERVICE TYPE PS

NOT TO SCALE

TRAFFIC ENGINEER
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018 CWG NO: 02933-14
RAINTIGHT JUNCTION BOX
8" x 8" x 5" O.A. DIM.
3 - 1 1/6 BOTTOM H.D.

RAINTIGHT JUNCTION BOX
8" x 5" x 12" O.A. DIM.
5 - 1 5/6 BOTTOM H.D.

NOTE:
CONTRACTOR SHALL TRIM TREES AND APPLY WOOD PRESERVATIVE AS DIRECTED BY ENGINEER AND/OR APPROVED CITY OF HOUSTON REPRESENTATIVE.
NOTES:
1. GIG E SYSTEM COMPONENT SCHEMATIC OVERVIEW.
2. ROAD REPRESENTATION IS NOT TO SCALE.
3. ALL ILLUSTRATED AERIAL CLEARANCES ARE PER NATIONAL ELECTRICAL CODE (N.E.C.)
4. GROUND HAS BEEN ILLUSTRATED AS TRANSPARENT TO VIEW SERVICE BOX & CONDUIT LOCATION.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

COMMUNICATIONS OVERVIEW

NOT TO SCALE

CITY TRAFFIC ENGINEER
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: JUL-01-2018
CWG NO: 02693-19
LEGEND

1. Splice closure bracket provides minimum lid clearance of 2" and supports fiber optic splice closure (9" dia. x 24" long at 18 lbs).
2. Nylon ties
3. Heavy-duty removable lid with locking provisions, providing 75,000 lb. over 10" square static load support.
4. 6" to 8" of ground or crushed rock bed for drainage.
5. Concrete apron, 300 psf as required for the location (drive, sidewalk, parking lot or areas of light traffic).
6. Conduit burial depth shall be 30" min. or 12" (1/2") measured to the centerline of the conduit.

COMMUNICATION SERVICE BOX DETAIL

- NO. 3 REINFORCING STEEL
- NO. 3 REINFORCING STEEL
- COVER LOGO
- FIBER OPTIC SPOICE / DROP CLOSURE
- FIBER CABLE SERVICE LOOP
- INSTALLED COMMUNICATION SERVICE BOX DETAIL
- NOTE: Cross section view of box in order to view drop closure and cable contained within.

SERVICE BOX CUT AWAY SIDE VIEW

ACCEPTABLE CONDUIT TERMINATION

(N.T.S.)

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

COMMUNICATIONS SERVICE BOX DETAILS

(CITY OF HOUSTON)

SIGNATURE 

DATE: JUL-01-2018

DRAWING NUMBER: 02693-20

(NOT TO SCALE)