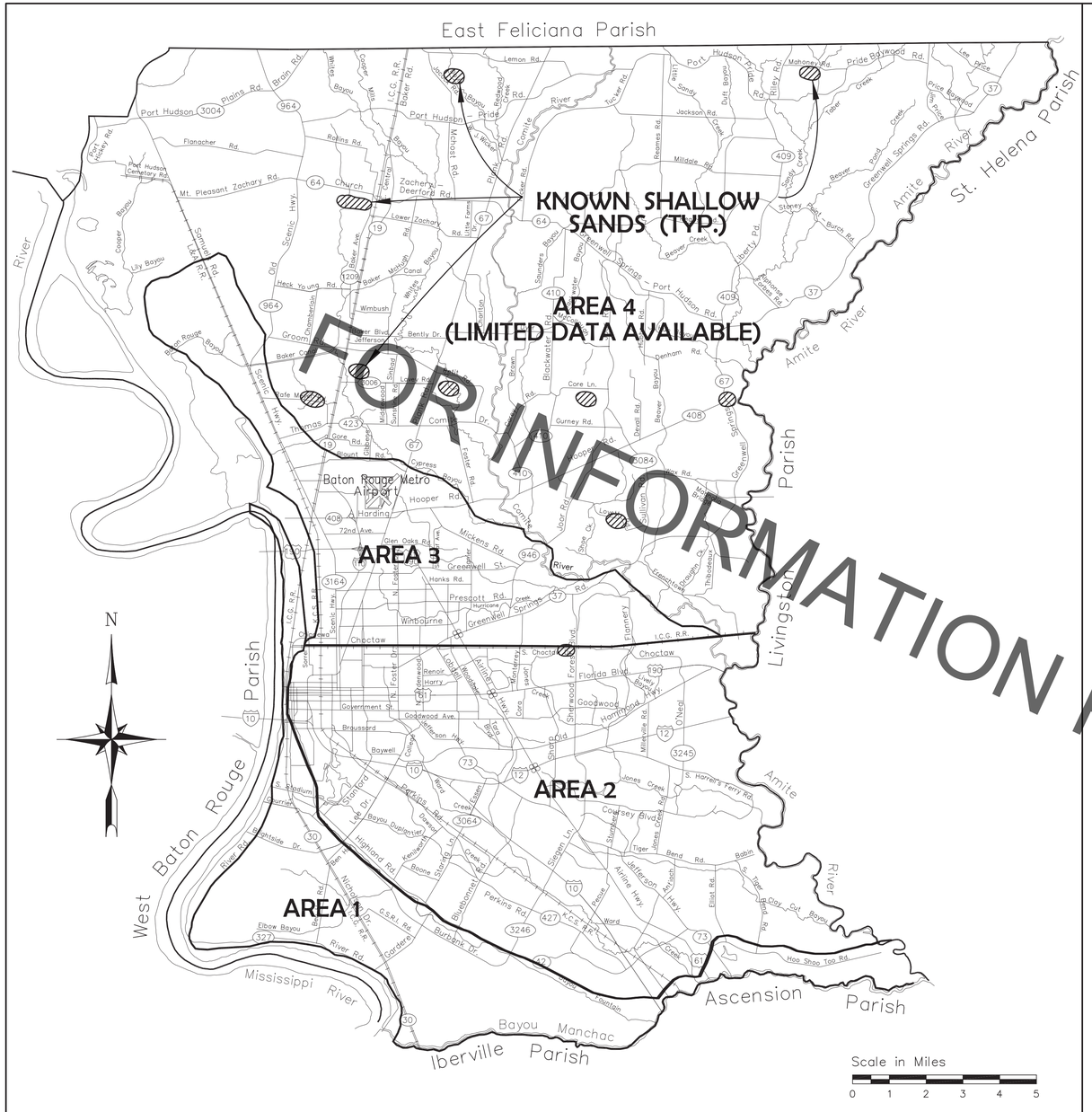
PROJECT NO.	SHEET



SOIL MAP OF EAST BATON ROUGE PARISH

SOIL AREA DESCRIPTIONS:

AREA 1: THIS AREA CONSISTS OF RECENT MISSISSIPPI RIVER DEPOSITS AND IS BOUNDED BY THE MISSISIPPI RIVER, BAYOU MANCHAC AND THE PLEISTOCENE TERRACE BLUFFS. ON THE NORTH EDGE OF THESE DEPOSITS, HIGHLAND ROAD IS GENERALLY THE BOUNDARY FROM MYRTLE AVENUE TO SIEGEN LANE.

AREA 2: THIS IS AN AREA OF THE PLEISTOCENE TERRACE LOCATED GENERALLY NORTH AND EAST OF HIGHLAND ROAD. IT IS BOUNDED ON THE WEST BY THE MISSISIPPI RIVER BLUFF, ON THE EAST BY THE AMITE RIVER, AND ON THE NORTH BY THE ICG RAILROAD TRACKS.

AREA 3: THIS IS AN AREA OF THE PLEISTOCENE TERRACE BOUNDED ON THE SOUTH BY THE ICG RAILROAD TRACKS, ON THE WEST BY THE MISSISIPPI RIVER BLUFF, ON THE NORTH BY LILLY BAYOU AND U.S. HWY. 61 (FROM IRENE TO ALSEN), AND ON THE NORTH AND EAST BY CYPRESS BAYOU AND THE COMITE RIVER. LIMITED DATA IS AVAILABLE IN THE EASTERN PART OF THIS AREA.

AREA 4: THIS AREA IS THE REMAINDER OF THE PARISH TO THE NORTH OF AREA 3 BETWEEN THE MISSISSIPPI RIVER ON THE WEST AND THE AMITE RIVER ON THE EAST. IN THIS AREA ONLY VERY LIMITED GEOTECHNICAL DATA IS AVAILABLE. SHALLOW SANDS CAN OFTEN BE ENCOUNTERED IN THIS AREA.

DESIGN NOTES:

1. FOUNDATION LOADS WERE CALCULATED IN ACCORDANCE WITH THE 2006 INTERIM TO THE AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS." LOADS ARE BASED ON A 110 MPH WIND WITH GUST FACTOR OF 1.14.
2. BROM'S METHOD WAS USED TO CALCULATE THE ULTIMATE LATERAL BEARING CAPACITY OF THE SOILS.
3. ALL POLE LOCATIONS WHERE THE NATURAL GROUND IS BELOW ELEVATION 20 SHOULD BE INVESTIGATED WITH SITE SPECIFIC BORINGS, AS SHOULD SIGNALS FOUNDED IN ROADWAY FILLS.
4. ANY SIGNAL TO BE PLACED IN THE FLOOD PLAIN OF AN EXISTING OR OLD CREEK OR RIVER SHOULD BE INVESTIGATED WITH SITE SPECIFIC BORINGS.
5. SIGNALS LOCATED IN THE REGIONS DESIGNED AS LIMITED DATA ON THE ATTACHED PARISH MAP SHOULD BE INVESTIGATED WITH SITE SPECIFIC BORINGS.

CONSTRUCTION NOTES:

6. DEPENDING ON FIELD CONDITIONS, GROUND WATER MAY BE ENCOUNTERED DURING THE CONSTRUCTION OF THESE DRILLED SHAFT FOUNDATIONS. PRIOR TO COMMENCEMENT OF DRILLING OPERATIONS THE CONTRACTOR SHALL BE REQUIRED TO HAVE ON SITE THE PROPER TEMPORARY CASING TO BE USED IF NECESSARY.
7. IF THE SOIL CONDITIONS DIFFER FROM THE SOIL PROFILE SHOWN, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ENGINEER.
8. NO EXCAVATION AROUND DRILLED SHAFT SHALL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
9. ALL CONCRETE SHALL HAVE MINIMUM 4,000 PSI 28 DAY STRENGTH. MAST ARMS SHALL NOT BE ERECTED ON POLES BEFORE CONCRETE DESIGN STRENGTH HAS REACHED 3,000 PSI.
10. CONCRETE SHALL BE PLACED BY MEANS OF TREMIE PIPE OR DEPOSITED NEAR THE BOTTOM OF THE HOLE BY MEANS OF A PUMP. WHEN TEMPORARY CASING IS USED, THE TOP SURFACE OF WET CONCRETE MUST BE KEPT A MINIMUM OF TWO FEET ABOVE THE BOTTOM OF THE CASING.
11. TOP OF FOUNDATION SHALL BE ROUND WITH CHAMFERED EDGE.
12. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.
13. SPLICES IN HOOP TIES SHALL BE ALTERNATED BETWEEN QUARTER POINTS.
14. ANCHOR BOLTS SHALL BE FABRICATED FROM ASTM F1554, GRADE 55 STEEL AND HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153.
15. ANCHOR BOLTS SHALL BE HELD IN PLACE WITH A TEMPLATE CAPABLE OF SECURING BOLTS IN THE PROPER LOCATION, ORIENTATION, ELEVATION AND PLUMB.
16. ANCHOR BOLT ACCESSORIES SHALL BE AS FOLLOWS:
    NUTS – ASTM A563
    WASHERS – ASTM F436
    STRUCTURAL STEEL PLATES – ASTM A36
    HOT DIP GALVANIZING – ASTM A153
17. CONDUIT SHALL BE SCHEDULE 80 PVC AND BE INSTALLED ACCORDING TO THE PLANS. ALL CONDUITS SHALL BE CENTERED IN THE FOUNDATION WITH SPACING TO ALLOW THE INSTALLATION OF GROUNDING BUSHINGS.
18. ALL STEEL POLE FOUNDATIONS TO HAVE A SPARE CONDUIT INSTALLED AND SEALED (IN THE SAME DIRECTION AS THE OTHER CONDUIT BEING USED) BELOW GRADE AND BROUGHT TO THE NEAREST JUNCTION BOX.
19. SERVICE CONDUIT SHALL BE MIN. 1" DIAMETER.
20. ONLY SPARE CONDUITS ARE SHOWN, REFER TO EACH STEEL POLE SHOWN IN PLANS FOR COMPLETE CONDUIT REQUIREMENT.
21. CAD WELD #6 AWG BARE COPPER GROUND WIRE ON GROUND ROD IN A "T" ARRANGEMENT, WITH ONE SIDE TO BE CONNECTED TO POLE AND THE OTHER SIDE CONNECTED TO ALL CONDUIT GROUNDING BUSHINGS.
22. FOR DETAILS NOT SHOWN HERE SEE POLE MANUFACTURER'S DETAILS FOR EACH POLE TYPE.

SOIL PROFILE LEGEND*

AREA NO.	DEPTH (FT.)	SHEAR STRENGTH (KSF)	VISUAL DESCRIPTION
1	5–20	0.40	SOFT GRAY CLAY & SILTY CLAY
2	5–10 10–16 16–20	0.50 0.60 1.00	MEDIUM BROWN, TAN & GRAY CLAY & SILTY CLAY STIFF TAN & GRAY CLAY & SILTY CLAY
3	5–10 10–20	0.50 1.20	MEDIUM BROWN, TAN & GRAY CLAY & SILTY CLAY STIFF TAN & GRAY CLAY & SILTY CLAY
4	5–9 9–20	0.35 1.20	SOFT TAN & GRAY SILTY CLAY STIFF TAN & GRAY CLAY & SILTY CLAY

* LOWER STRENGTH OR WATER BEARING SANDS OR SILTS REQUIRE SPECIAL DESIGN

STATE OF LOUISIANA
THOMAS A. STEPHENS
License No. 19417
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
2/14/2018

DATE	DESCRIPTION REVISIONS	BY

STANDARD PLAN NO.	DATED	SHEET NO.
906–04	DECEMBER 2, 2008	1 OF 4

SIGNAL POLE FOUNDATION DETAILS (GENERAL INFORMATION)

ENGINEERING DIVISION
DEPARTMENT OF PUBLIC WORKS
CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE

DESIGNED	DRAWN	CHECKED	APPROVED
H. THOM	D. KNOTT	D. ROSENQUIST	T. STEPHENS