



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

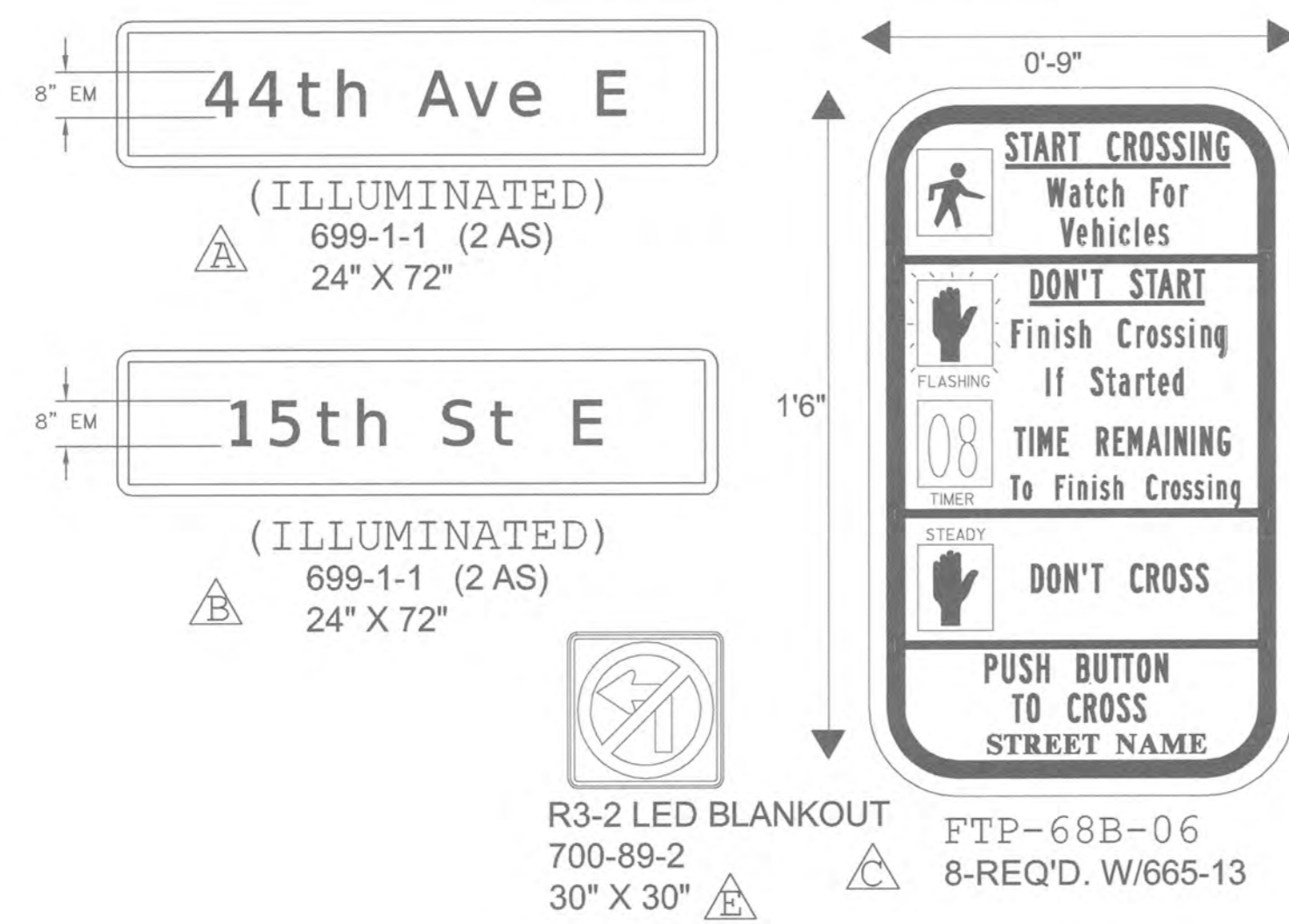
44th AVENUE EAST IMPROVEMENTS
FROM U.S. 41 TO 19th STREET EAST
15th STREET EAST - FDOT PERMIT PLANS
RAILROAD DETAIL & PLAN SHEET

| RAIL ROAD PRE - EMPTION TIMING PLAN | SEC |
|-------------------------------------|------|
| MINIMUM GREEN BEFORE PRE - EMPTION | 0 |
| YELLOW CLEARANCE | 4.0 |
| ALL RED CLEARANCE | 2.0 |
| TRACK CLEARANCE GREEN | 15.0 |
| YELLOW CLEARANCE | 4.0 |
| ALL RED CLEARANCE | 2.0 |
| MINIMUM DWELL | 30.0 |
| YELLOW CLEARANCE | 4.0 |
| ALL RED CLEARANCE | 2.0 |

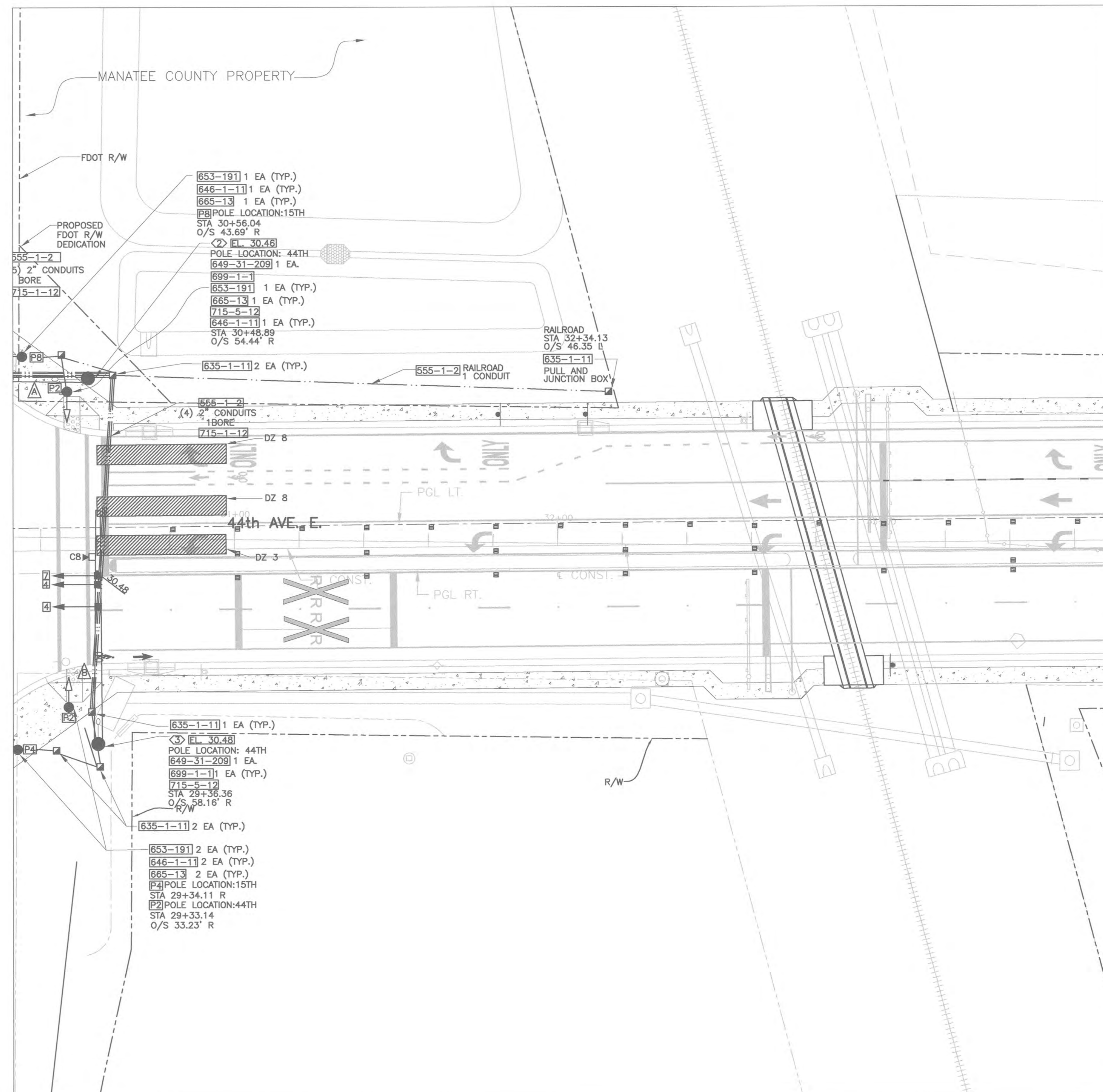
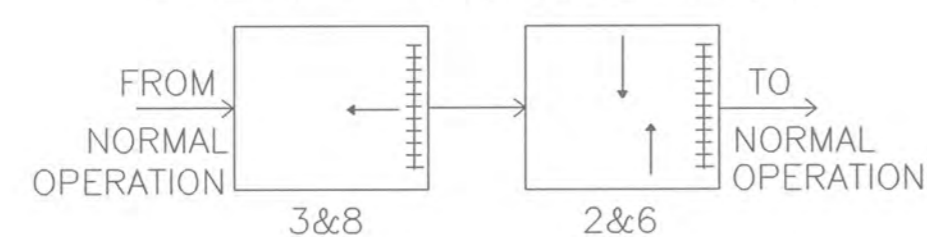
TIMINGS PROVIDED ARE INITIAL TIMINGS AND SHALL NEED TO BE FIELD ADJUSTED

SCALE: 1"=40'

① SIGN DETAILS



SPECIAL RAILROAD P.O.P



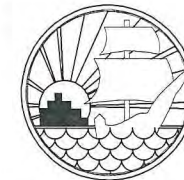
| REVISION | DATE |
|--------------------------------------|---------|
| ① SIGN DETAIL & S/W GEOMETRY REVISED | 5/08/13 |
| REVISION | DATE |
| SURVEYED | 5/08 |
| DESIGNED | 9/09 |
| DRAWN | 3/10 |
| CHECKED | 3/10 |

SCALE: 1"=40'

SEAL
APPROVED BY:
SAGE KAMIYA, P.E.
FLORIDA P.E. # 57499
MANATEE COUNTY GOVERNMENT
PUBLIC WORKS DEPARTMENT
2101 47TH TERRACE EAST
BRADENTON, FL. 34203

DATE: 7/8/13

SHEET 8 OF



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

44TH AVENUE EAST IMPROVEMENTS FROM US 41 TO 19TH STREET COURT EAST 15TH STREET EAST - FDOT PERMIT PLANS SPECIAL MAST ARM ASSEMBLIES DATA TABLE

SPECIAL MAST ARM ASSEMBLIES DATA TABLE

Table with columns: NUMBER OF LOCATIONS, STRUCTURE NUMBER, FIRST ARM (FA, FB, FC, FD), FIRST ARM EXTENSION (FE, FF, FG, FH), SECOND ARM (SA, SB, SC, SD), SECOND ARM EXTENSION (SE, SF, SG, SH), POLE (UA, UB, UC, UD, UE, UF, UG).

SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)

Table with columns: STRUCTURE NUMBER, FIRST ARM CONNECTION (in) (#Bolts, HT, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT), First Arm Camber Angle = 2 Degrees, SECOND ARM CONNECTION (in) (#Bolts, HT, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST), Second Arm Camber Angle = 2 Degrees.

SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)

Table with columns: STRUCTURE NUMBER, POLE BASE CONNECTION (in) (#Bolts, BA, BB, BC, BD, BE, BF), SHAFT AND REINF. (DA, DB, RA, RB, RC, RD), LUMINAIRE AND LUMINAIRE CONNECTION (LA, LB, LC, LD, LE, LF, LG, LH, LJ, LK, LL).

NOTES:

- 1. Work with Index 17745.
2. Design Wind Speed = 130 mph.
3. Contractor shall coordinate anchor bolt requirements with fabricator.
4. Contractor shall identify Structures Numbers and submit detailed shop drawings.

FOUNDATION NOTES:

- 1. Design based on borings dated June, 2010, signed and sealed by Craig G. Obrecht, P.E. with Ardaman & Associates, Inc.
2. Assumptions and values used in design:
Soil Type = Clay.
Soil Layer Thickness = 18 ft.
Soil Weight = 56.6 pcf.
Design Water Table is at ground Line.



REVISION table with columns: REVISION, BY, DATE. Includes entries for SURVEYED, DESIGNED, DRAWN, CHECKED.

SEAL APPROVED BY: DATE: MIGUEL A. VILLEGAS, P.E. FLORIDA P.E. # 68768. Cardno TBE logo and address: 388 PARK PLACE BLVD. SUITE 300 CLEARWATER, FL 33759. SHEET 10 OF