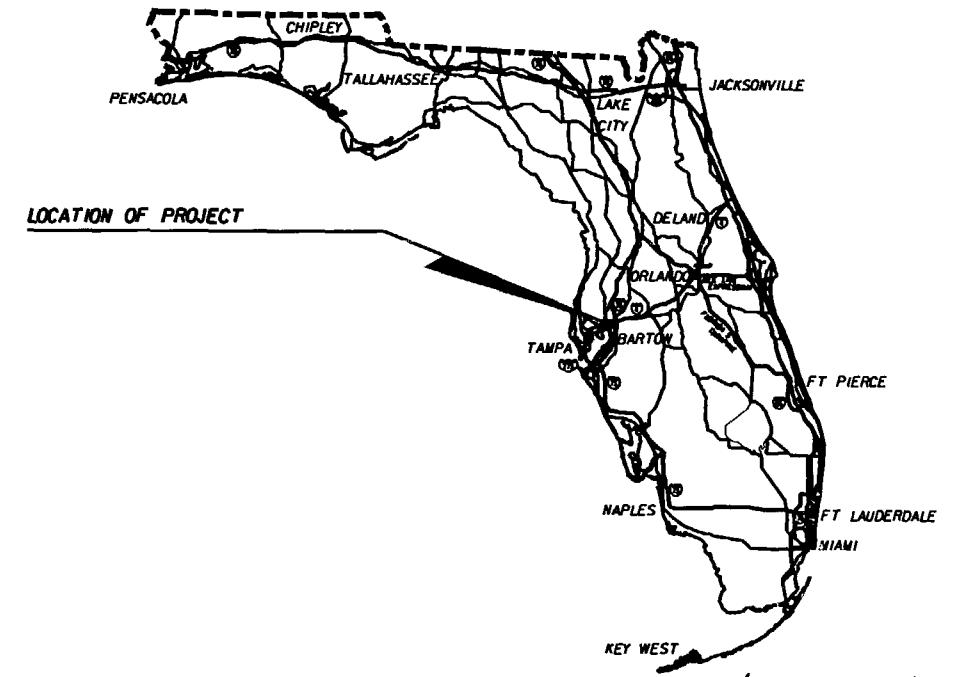


**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

Final "As-Built" Plans

FINANCIAL PROJECT ID 255853-1-52-01
HILLSBOROUGH COUNTY (10040)

STATE ROAD NO. 45 (NEBRASKA AVENUE)
FROM STATE ROAD 60 (KENNEDY BOULEVARD)
TO STATE ROAD 600 (HILLSBOROUGH AVENUE)



ABZ
11/6/08

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

BIJAN BEHZADI, P.E.
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT SEVEN TRAFFIC DESIGN OFFICE
11201 NORTH MCKINLEY DRIVE
MAIL STATION 7-800
TAMPA, FLORIDA 33612-6456
PHONE No.: (813) 975-6000

SIGNALIZATION PLANS PREPARED BY:

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
DISTRICT SEVEN TRAFFIC DESIGN OFFICE
11201 NORTH MCKINLEY DRIVE
MAIL STATION 7-800
TAMPA, FLORIDA 33612-6456
PHONE No.: (813) 975-6000

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	SIGNALIZATION KEY SHEET
T-2 & T-3	TABULATION OF QUANTITIES SHEETS
T-4	SIGNALIZATION GENERAL NOTES SHEET
T-5 - T-16	SIGNALIZATION PLAN SHEETS
T-17 - T-19	AERIAL INTERCONNECT CABLE RELOCATION PLAN SHEETS
T-20 - T-24	TRAFFIC CLASSIFICATION MONITORING SITE PLAN SHEETS
T-25 - T-35	GUIDE SIGN WORK SHEETS
T-36 & T-37	OVERHEAD STREET NAME SIGN BRACKET ARM DETAIL SHEETS
T-38	MAST ARM SIGNAL POLE SCHEDULE
T-39	TABLE OF VARIABLES FOR SPECIAL MAST ARM ASSEMBLIES
T-40	MISCELLANEOUS CANTILEVER SIGNAL STRUCTURE DETAILS
T-41 & T-42	REPORT OF CORE BORINGS

SIGNALIZATION PLANS

This project was constructed in substantial compliance with these plans as provided by the Engineer of Record. If changes were made, those changes are indicated by black ink revision and bear the seal and signature of the Responsible Engineer.

ABZ 11/6/08
Resident Engineer Date

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS
ENGINEER OF RECORD: BIJAN BEHZADI, P.E.

P.E. NO. 43868

FISCAL YEAR	SHEET NO.
07	T-1

FDOT PROJECT MANAGER: JOHN ESCOBIO

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

SIGNALIZATION GENERAL NOTES:

1. THE CONTRACTOR SHALL MEET THE CRITERIA OUTLINED IN "THE MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES".
2. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. PRIOR TO DIGGING, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES.
3. ONE WEEK PRIOR TO THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL CONTACT:
 - A) JIM A. ROSA, STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT SEVEN TRAFFIC OPERATIONS CONSTRUCTION LIAISON
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456
PHONE: (813) 975-6269
E-MAIL: James.rosa@dot.state.fl.us
 - B) MR. WILLIAM HALL, TRAFFIC SIGNAL SUPERVISOR
CITY OF TAMPA
3802 EAST 26TH AVENUE
TAMPA, FLORIDA 33605
PHONE: (813) 622-1940
4. PRIOR TO ALL TRAFFIC SIGNAL CHANGES (I.E., MAINTENANCE OF TRAFFIC CHANGES, NEW SIGNAL INSTALLATIONS, DIFFERENT PAVEMENT CONFIGURATIONS, ETC.), CONTACT RICK NAPORA AT (813) 975-6232 FOR IMPLEMENTATION OF APPROPRIATE SIGNAL TIMINGS.
5. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES. SUCH WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, AND / OR SIGNAL POLES.
6. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE CITY OF TAMPA SIGNAL SHOP, IN EXISTING CONDITION, EXCEPT FOR POLES AND SPAN WIRES WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY HIM. COST OF DELIVERY SHALL BE INCLUDED IN THE UNIT PRICE OF PAY ITEM 110-86.
7. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER FOR APPROVAL PRIOR TO THE 48 HOUR TEST. UPON THE 48 HOUR TEST, THE ENGINEER SHALL PROVIDE AT LEAST ONE COPY OF THE FINAL AS-BUILT PLANS TO THE CITY OF TAMPA AND ONE COPY TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, DISTRICT SEVEN TRAFFIC OPERATIONS.

SIGNALIZATION PAY ITEM FOOTNOTES:

1. 555-1-1 / 555-1-2:
CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE WITH A MINIMUM SIZE OF TWO INCHES, UNLESS OTHERWISE NOTED IN THE PLANS.
2. 630-1-12 / 630-1-13:
ALL CONDUIT RUNS SHOWN ON THE PLANS ARE SCHEMATIC AND FIELD ADJUSTMENTS MAY BE NECESSARY. WITH THE EXCEPTION OF ELECTRICAL POWER SERVICE DUCTS, JACK AND BORE SLEEVES, AND DIRECTIONAL BORE CONDUITS, ALL UNDERGROUND AND UNDER PAVEMENT CONDUITS SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF TWO INCHES, UNLESS OTHERWISE SPECIFIED IN THE PLANS. TWO SEPARATE UNDERGROUND CONDUIT RUNS LOCATED 180 DEGREES APART ARE REQUIRED FOR ALL SIGNAL MAST ARMS.

THERE SHALL BE MINIMUM OF TWO RUNS OF TWO INCH CONDUIT BETWEEN THE LAST LOW VOLTAGE (LOOPS) PULL BOX AT THE CONTROLLER CABINET AND THE CONTROLLER CABINET ITSELF.
3. 632-7-1:
EACH PHASE / MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE / MOVEMENT, THIS INCLUDES THE LEFT TURN MOVEMENT WHICH SHALL HAVE CONDUCTORS AVAILABLE FOR EITHER PROTECTED OR PERMISSIVE MOVEMENTS. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT CABLE WITH THE CITY OF TAMPA TRAFFIC SIGNAL SUPERVISOR BEFORE ORDERING AND WIRE THE SIGNAL IN ACCORDANCE WITH THAT COLOR CODE AND STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS. THERE SHALL BE ONE NEUTRAL PER APPROACH.
4. 632-8-131:
THIS PAY ITEM SHALL INCLUDE THE RELOCATION OF THE EXISTING HILLSBOROUGH COUNTY FIBER OPTIC INTERCONNECT CABLE AND THE EXISTING CITY OF TAMPA INTERCONNECT CABLE FROM THE EXISTING T.E.C.O. POWER POLES TO THE RELOCATED T.E.C.O. POWER POLES. THIS PAY ITEM SHALL ALSO INCLUDE ALL NECESSARY HARDWARE FOR THIS RELOCATION PER THE AERIAL INTERCONNECT CABLE PLAN SHEET.

5. 639-1-22:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING OR CONNECTION FEE IS REQUIRED. THE COST OF ANY SUCH FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.
6. 639-1-22:
THE COST OF THIS ITEM SHALL INCLUDE THE COST FOR THE APPROPRIATE METER CAN CONTAINING AN INTERNAL BYPASS SHUNT SWITCH AS REQUIRED BY THE LOCAL POWER COMPANY.
7. 639-2-1:
THE PAYMENT FOR THIS ITEM SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.
8. 641-41-112 / 649-416-004 / 649-417-006:
AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE SIGNAL POLE FOUNDATION, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION.
9. 650-51-313:
ALL TRAFFIC SIGNAL HEAD INDICATIONS SHALL BE LED.
10. 650-54-311:
THE EXISTING SIGNAL HEADS ON THE NORTH AND SOUTH LEG OF THE INTERSECTION ARE TO BE REMOVED AND RELOCATED AS SHOWN IN THE PLANS. THIS ITEM SHALL ALSO INCLUDE PROVIDING ANY NECESSARY HARDWARE, ADJUSTABLE HANGERS, ETC. AS NEEDED.
11. 659-107:
ALUMINUM PEDESTALS SHALL BE MOUNTED ON TRANSFORMER BASE.
12. 660-2-101 / 660-2-106:
THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA TRAFFIC SIGNAL SUPERVISOR AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT SEVEN TRAFFIC OPERATIONS OFFICE AT LEAST 48 HOURS IN ADVANCE OF LOOP CUTTING.
13. 665-13:
SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN SIGNAL SIGN FTP-698-06.
14. 653-191 / 653-192:
PEDESTRIAN SIGNALS SHALL BE COUNTDOWN WITH OVERLAY / FILLED / FILLED HAND AND PEDESTRIAN SYMBOLS, AND SHALL BE A STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED PRODUCT.
15. 670-5-110:
THE CONTRACTOR SHALL NOTIFY THE CITY OF TAMPA TRAFFIC SIGNAL SUPERVISOR AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 TRAFFIC OPERATIONS OFFICE AT LEAST 48 HOURS IN ADVANCE OF TURNING ON A NEW OR MODIFIED CONTROLLER CABINET ASSEMBLY. CABINET DOOR SHOULD OPEN AWAY FROM TRAFFIC. THE TECHNICIAN SERVICE SLAB SHALL BE A MAXIMUM OF 4" BELOW THE TOP OF THE CONCRETE PAD. THE CONTROLLER SHALL BE HOUSED IN A TYPE "V" CABINET. THE CABINET SHALL INCLUDE AN EIGHT PHASE BACKPLANE WITH A MINIMUM OF 16 POSITIONS ON THE LOAD BAY AND SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS AS ONE UNIT.
16. 670-5-110:
SHALL INCLUDE A COMMUNICATIONS INTERFACE PANEL COMPATIBLE WITH THE CITY'S PROTOCOL 90 COMMUNICATIONS SYSTEM. IT SHALL ALSO INCLUDE A CONTROLLER CAPABLE OF INTERNAL COMMUNICATIONS WITH THE COMPUTRAN PROTOCOL 90 SOFTWARE, INCLUDING UPLOAD AND DOWNLOAD OF CONTROLLER TIMINGS. CURRENTLY, THE ONLY TWO COMPATIBLE CONTROLLERS ARE THE PEEK 3000 AND THE ECONOLITE ACS/2S-2100. IF THE INTERSECTION IS UNDER UTCS CONTROL, THIS ITEM SHALL ALSO INCLUDE AN RCU AND HARNESS COMPATIBLE WITH THE CITY'S UTCS SYSTEM.
17. 690-32-1:
THIS PAY ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING CONCRETE SERVICE POLE AND THE OVERHEAD ELECTRIC AND SIGNAL CABLE ATTACHED TO IT.
18. 690-100:
THIS PAY ITEM SHALL INCLUDE THE REMOVAL OF EXISTING PULL BOXES.
19. 699-1-1:
ALL INTERNALLY ILLUMINATED OVERHEAD STREET NAME SIGN ASSEMBLES USED IN THIS PROJECT SHALL BE LISTED IN FOOT APPROVED PRODUCT LIST.
20. 700-48-18:
THIS PAY ITEM SHALL INCLUDE PROPERLY DESIGNED AND SIZED ADJUSTABLE HANGERS, BRACKETS, CLAMPS, AND ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL THE SIGNS AS SHOWN IN THE PLANS.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS						E.O.R. : <u>BIJAN BEHZADI, P.E.</u> P.E. No.: 43868 ADDRESS: <u>F.D.O.T. DISTRICT 7 OFFICE</u> <u>11201 NORTH MCKINLEY DRIVE</u> <u>TAMPA, FLORIDA 33612-6456</u>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION GENERAL NOTES SHEET	SHEET NO. T-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

CONTROLLER OPERATION NOTES:

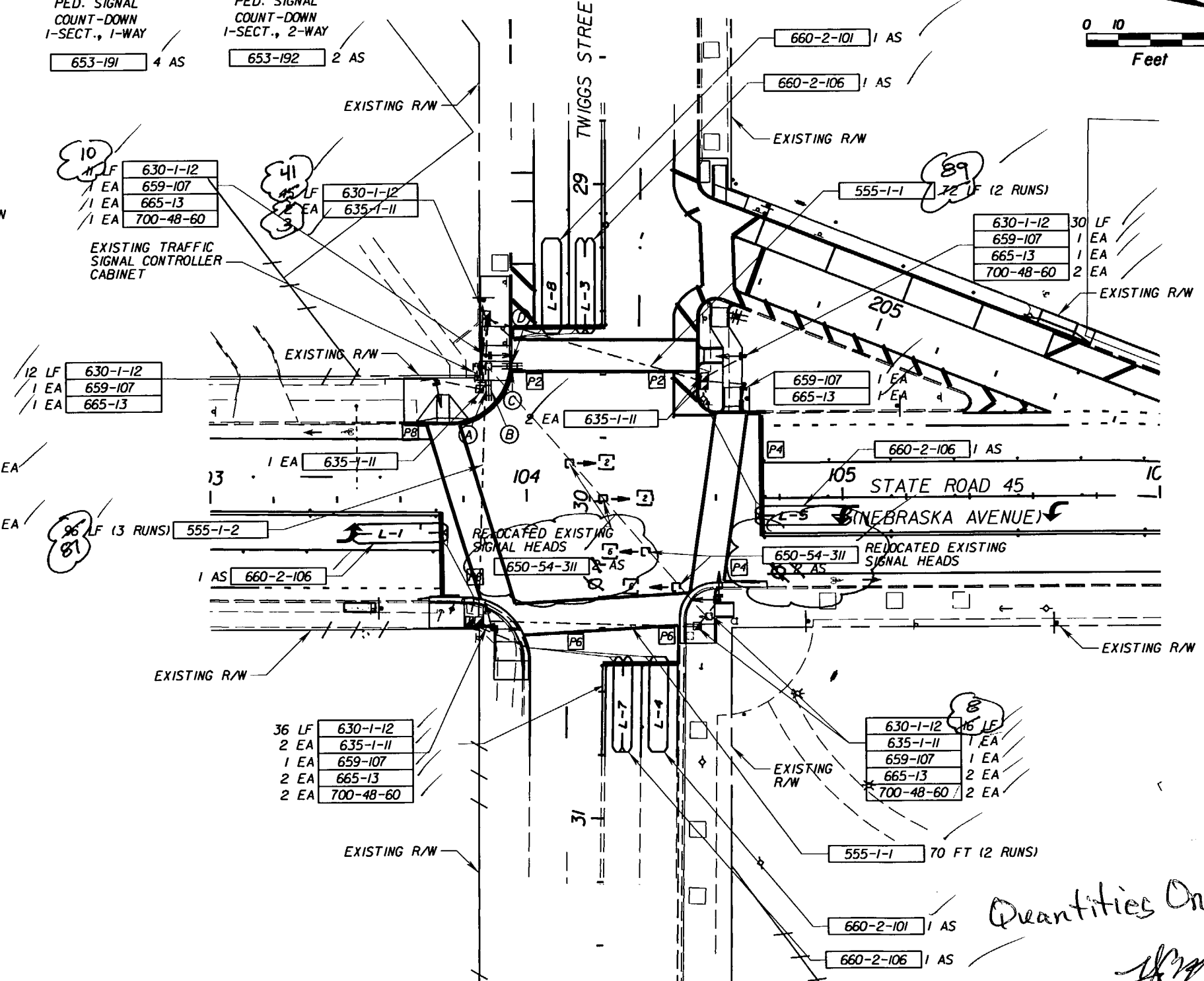
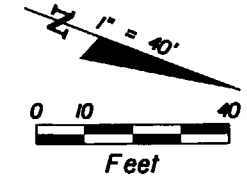
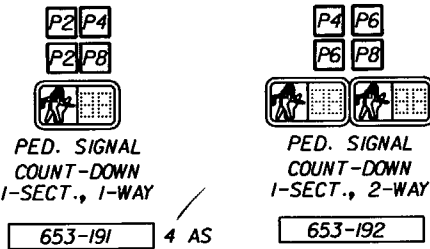
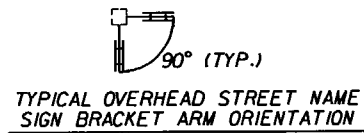
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS TWIGGS STREET.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRE IN PROPOSED PULL BOXES.
4. FOR OVERHEAD STREET NAME SIGN PANELS "A", "B", "C", AND "D", SEE DETAILS LOCATED ON SHEET T-25. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.

SIGNALIZATION REMOVAL ITEMS

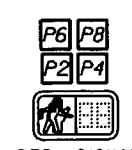
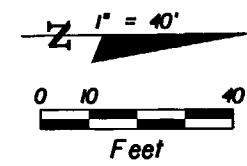
690-20	8 EA
690-70	8 EA
690-90	1 PI
690-100	1 PI



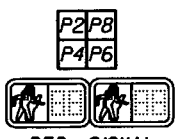
Quantities Only
[Signature]
11/6/08

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01	SIGNALIZATION PLAN SHEET	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
653-191 4 AS



PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY
653-192 2 AS

**SIGNALIZATION
REMOVAL ITEMS**

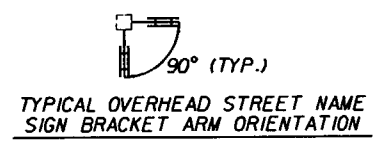
690-20	8 EA
690-31	1 EA
690-70	8 EA
690-90	1 PI
690-100	1 PI

CONTROLLER OPERATION NOTES:

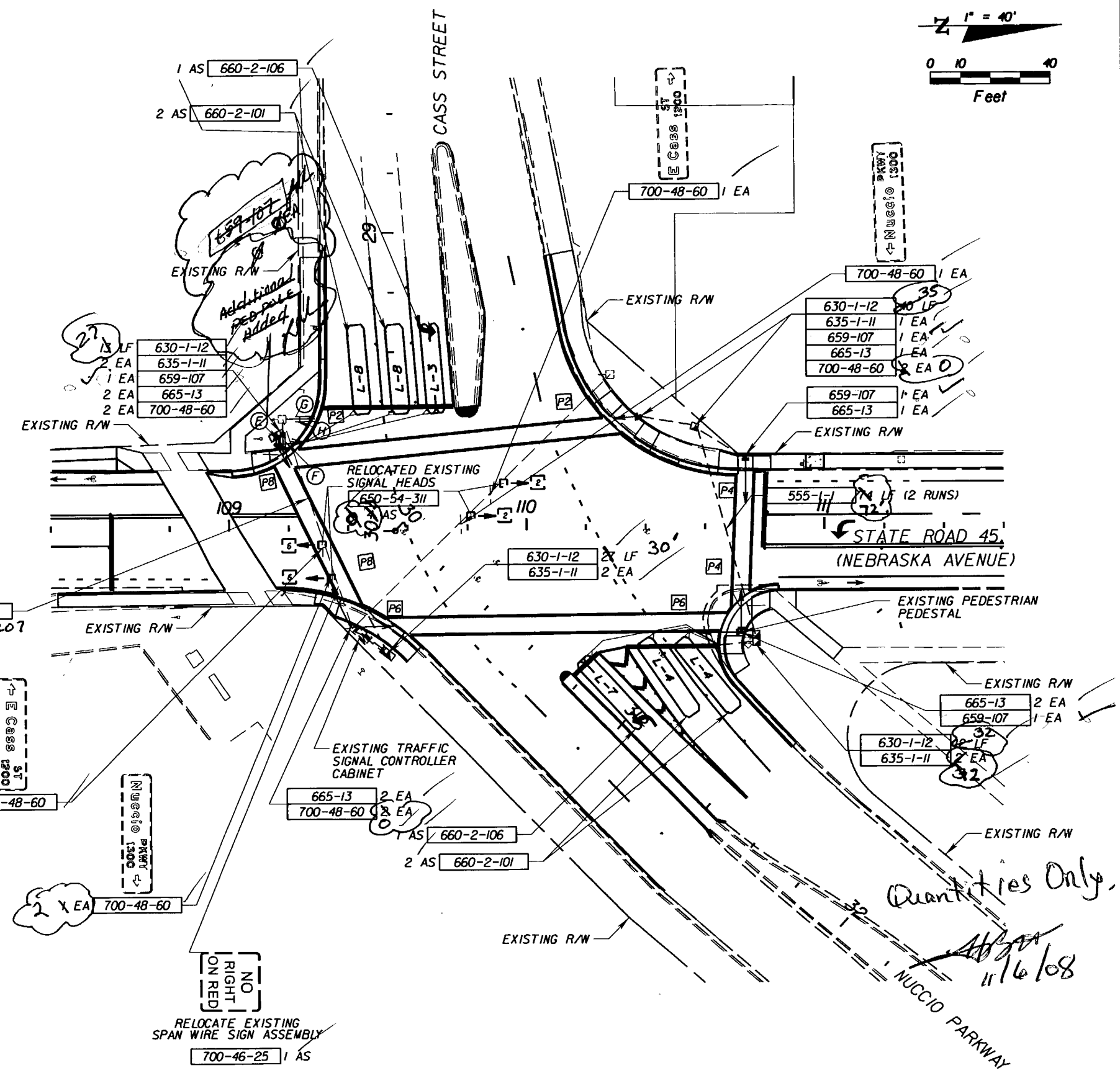
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS CASS STREET / NUCCIO PARKWAY.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. PROPOSED LOOP ASSEMBLY LOOP WIRE TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRE IN PROPOSED PULL BOXES.
4. FOR OVERHEAD STREET NAME SIGN PANELS "E", "F", "G", AND "H", SEE DETAILS LOCATED ON SHEET T-26. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.



(E) (F)
700-48-18 2 EA
(G) (H)
700-48-18 2 EA



700-48-60 = Plan matrix shows qty of 6 / plan sheet shows qty of 9 EA / Placed qty of 6 EA.

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66B5-23.003, F.A.C.

2 4 6 8



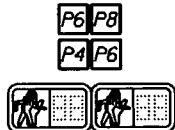
TRAFFIC SIGNAL,
3 SECTION, 1 WAY

650-51-313	8 AS
659-101	4 EA
659-106	24 EA



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

653-191	4 AS
---------	------



LED PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY

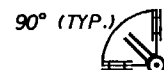
653-192	2 AS
---------	------

CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS SCOTT STREET.
2. CONTROLLER CABINET SHALL BE WIRED INITIALLY FOR STANDARD SIGNAL OPERATING PLAN 1 WITH 16 POSITION BACKPLANE.
3. SIGNAL TIMINGS AND DELAY TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. POWER SERVICE METER BASE AND MAIN DISCONNECT SHALL BE INSTALLED ON A TYPE N-11 PRESTRESSED CONCRETE SERVICE POLE AS SHOWN PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX No. 17504 AND No. 17736.
3. TYPE "A" LOOPS SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
4. FOR OVERHEAD STREET NAME SIGN PANELS "I", "J", "K", AND "L", SEE DETAILS LOCATED ON SHEET T-27. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
5. SIGNAL HEAD ASSEMBLIES FOR MOVEMENTS 4 AND 8 SHALL HAVE BACKPLATES.
6. EXISTING AERIAL INTERCONNECT COMMUNICATION CABLE SHALL BE SPLICED AT THE SOUTHEAST CORNER. THE EXISTING INTERCONNECT COMMUNICATION CABLE SHALL RUN DOWN THE EXISTING TECO POLE AT THE SOUTHEAST CORNER AND UNDERGROUND INTO THE PROPOSED TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
7. PEDESTRIAN DETECTOR STATIONS SHALL BE PROVIDED FOR PEDESTRIAN SIGNAL HEADS P4 AND P8.



TYPICAL OVERHEAD STREET NAME
SIGN BRACKET ARM ORIENTATION

(J)	700-48-18	2 EA
-----	-----------	------

(K)	700-48-18	2 EA
-----	-----------	------

CONTROLLER TIMINGS *		
TIMING FUNCTION		
MOVEMENT NUMBER	2, 6, 8	
MINIMUM GREEN	10.0	10.0
VEHICLE EXTENSION	3.0	3.0
MAXIMUM GREEN 1	60.0	25.0
MAXIMUM GREEN 2	60.0	25.0
YELLOW CLEARANCE	4.0	4.0
ALL RED	1.5	2.0
PEDESTRIAN WALK	4.0	4.0
PED. CLEARANCE	8.0	12.0
RECALL	MAX	---

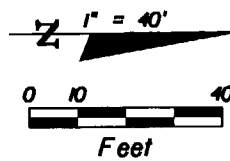
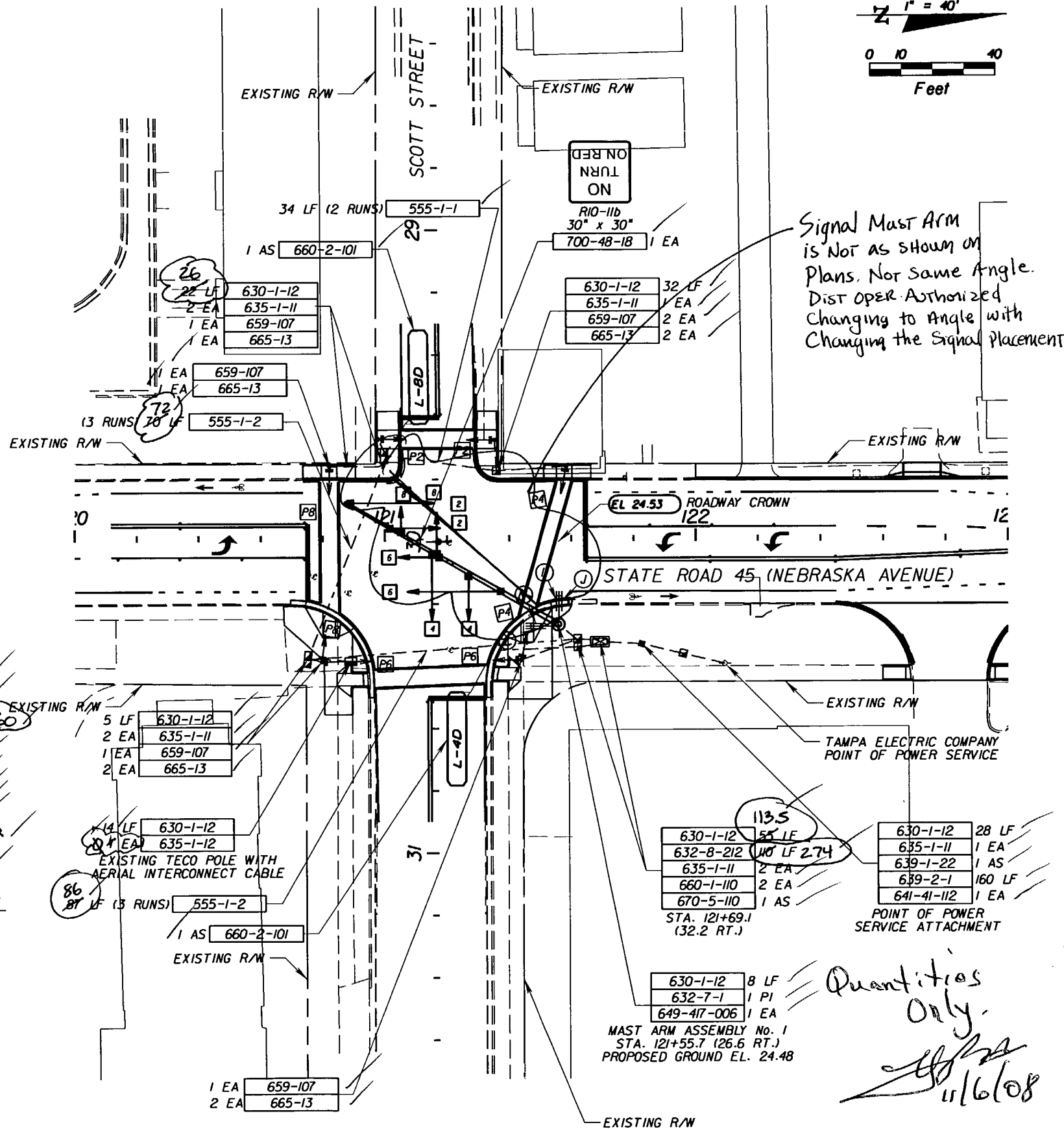
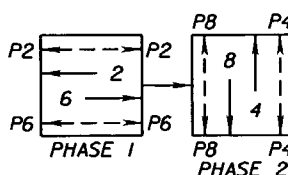
* EXISTING TIMINGS PROVIDED
BY THE CITY OF TAMPA

DETECTORS FOR LOOPS			
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	DELAY TIME (SEC.)
L-4D	1	1	7.0
L-8D	1	1	7.0

**SIGNALIZATION
REMOVAL ITEMS**

690-10	8 EA
690-20	8 EA
690-33-1	40 LF 60
690-50	1 EA
690-60	4 EA
690-70	4 EA
690-80	1 EA
690-90	1 PI
690-100	1 PI
700-48-60	1 AS
700-48-60	1 EA
690-32-1	1 EA

**STANDARD SIGNAL
OPERATING PLAN (S.O.P.) 1**

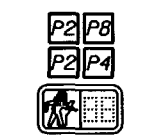
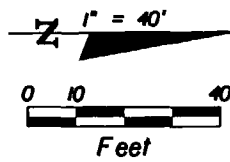


Signal Mast Arm
is Not as shown on
Plans. Nor same Angle.
Dist Oper. Authorized
Changing to Angle with
Changing the Signal Placement

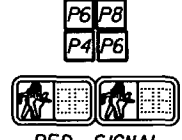
Quantities
Only
11/6/08

REVISIONS				E.O.R. : BIJAN BEHZADI, P.E.		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY
653-191 4 AS



PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY
653-192 2 AS

**SIGNALIZATION
REMOVAL ITEMS**

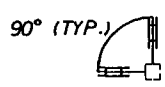
690-20	2 EA
690-70	2 EA
690-90	1 PI
690-100	1 PI

CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS HENDERSON AVENUE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

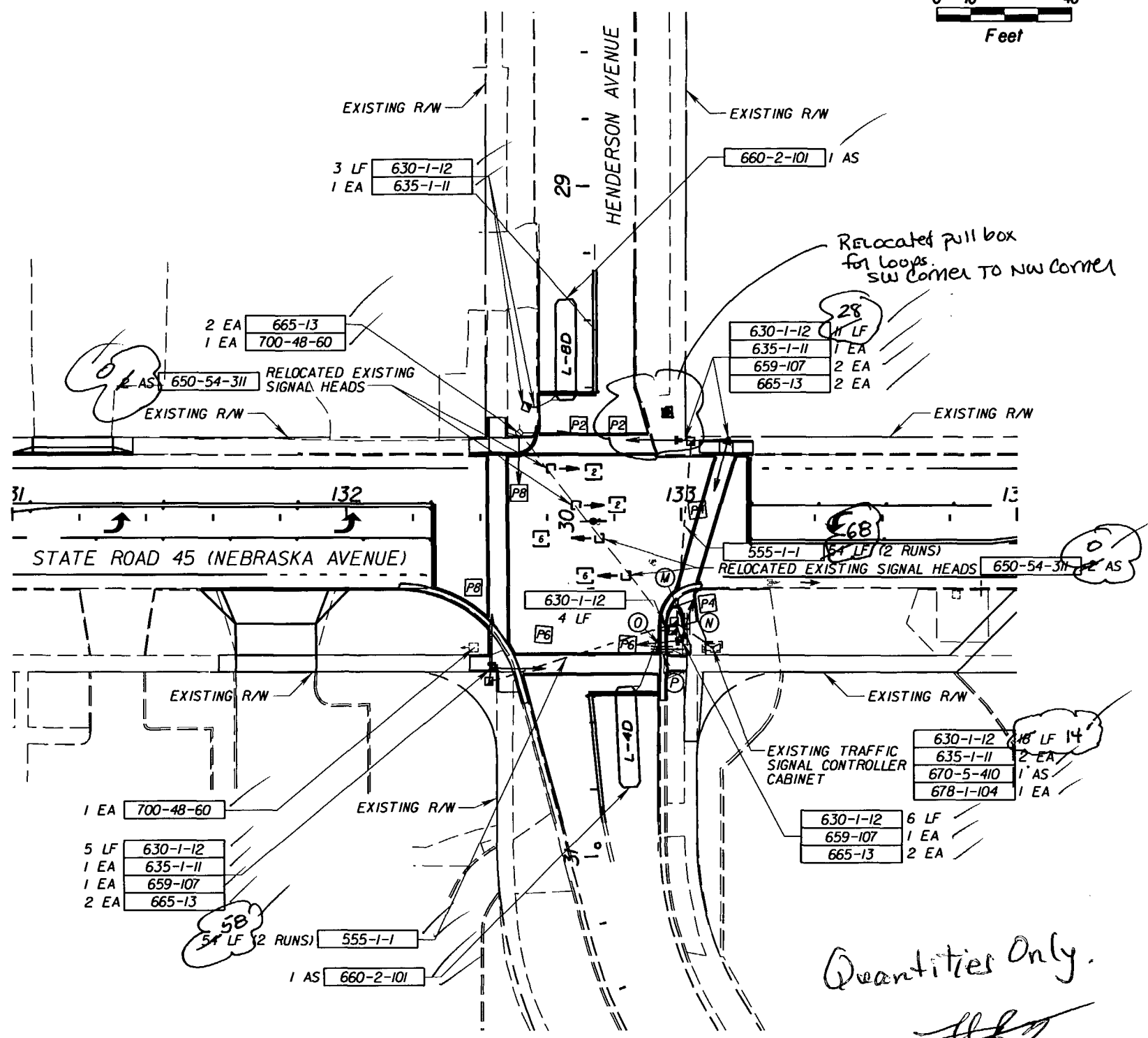
SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE)
2. TYPE "A" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRES IN PROPOSED PULL BOXES.
4. FOR OVERHEAD STREET NAME SIGN PANELS "M", "N", "O", AND "P", SEE DETAILS LOCATED ON SHEET T-28. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
5. EXISTING CONTROLLER TO BE MODIFIED. A NEW CONDUIT FROM THE BASE OF THE CONTROLLER SHALL BE FURNISHED AND INSTALLED TO ACCOMMODATE HIGH VOLTAGE CONDUCTORS FROM THE PEDESTRIAN SIGNAL HEADS LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION.
6. PEDESTRIAN DETECTOR STATIONS SHALL BE PROVIDED FOR PEDESTRIAN SIGNAL HEADS P4 AND P8.



TYPICAL OVERHEAD STREET NAME
SIGN BRACKET ARM ORIENTATION

M	N
700-48-18	2 EA
O	P
700-48-18	2 EA



Quantities Only.
[Signature]
11/6/08

635-1-11 = plan matrix shows qty of 4 / plan sheets shows qty of 5 / placed qty of 5 EA.

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE, 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-8
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

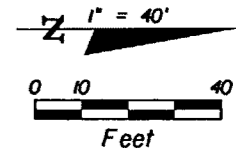
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

P2 P8 P6 P8
P2 P4 P4 P6



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

653-191 8 AS



CONTROLLER OPERATION NOTES:

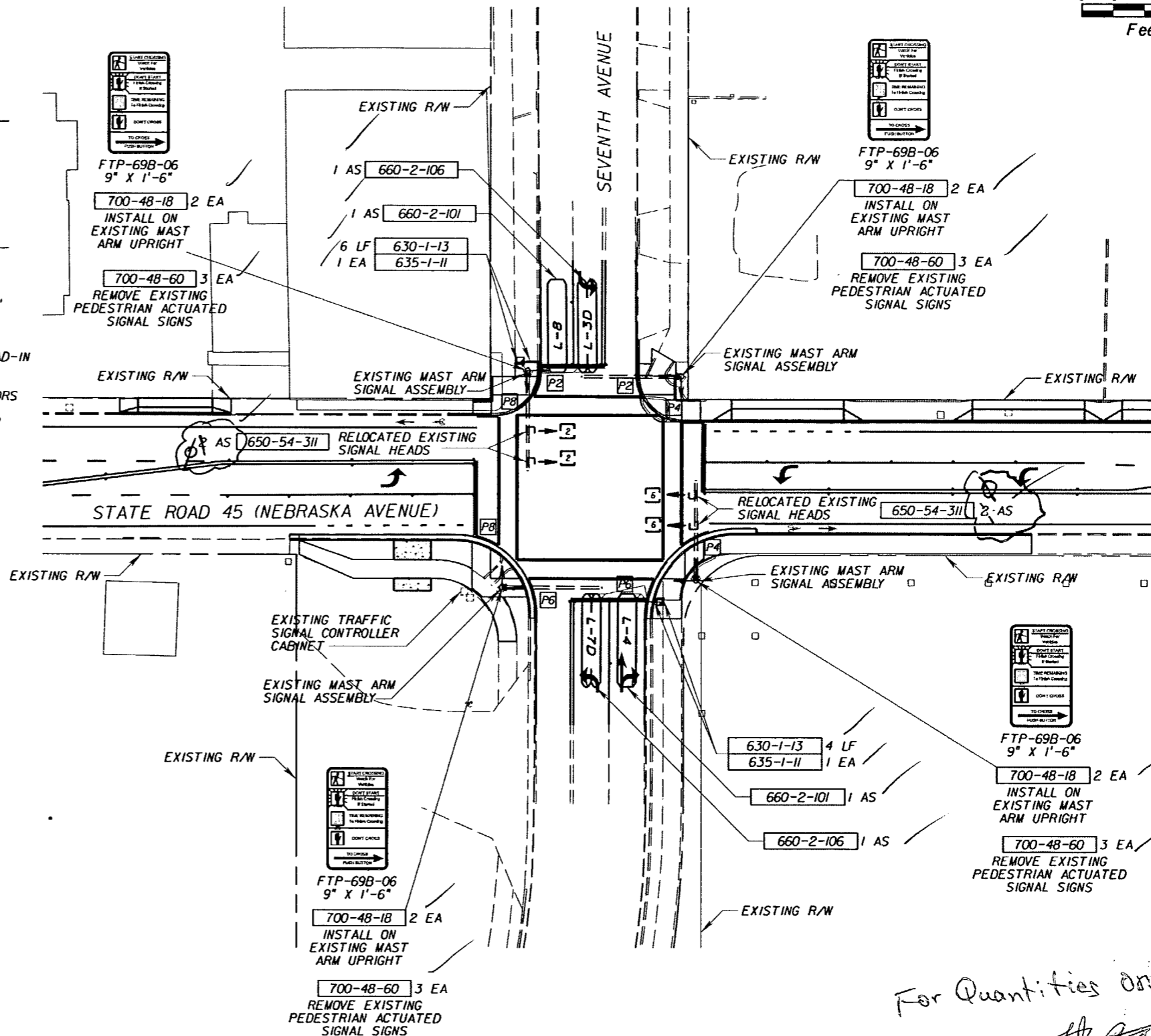
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS SEVENTH AVENUE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE)
2. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRES IN PROPOSED PULL BOXES.
4. FTP-69B-06 SIGN PANELS TO BE PLACED ABOVE EXISTING PEDESTRIAN DETECTORS ON EXISTING STEEL TRAFFIC SIGNAL STRAIN POLES. SEE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 17784 FOR SIGN PANEL DETAILS.

**SIGNALIZATION
REMOVAL ITEMS**

690-20	8 EA
690-90	1 PI
690-100	1 PI

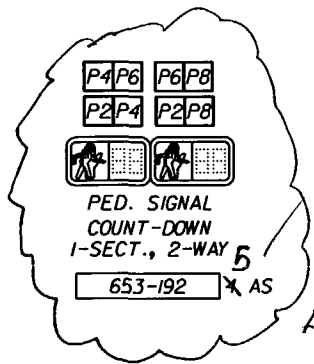


For Quantities only
[Signature] 12/18/08

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-9
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

SIGNALIZATION PLAN SHEET

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6G15-23.003, F.A.C.



SIGNALIZATION REMOVAL ITEMS

690-31	4 EA
690-90	1 PI
690-100	1 PI

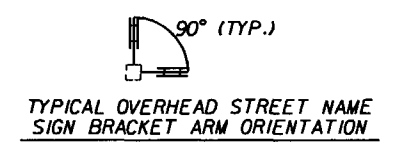
Auth. Increase by Dept, due to accident.

CONTROLLER OPERATION NOTES:

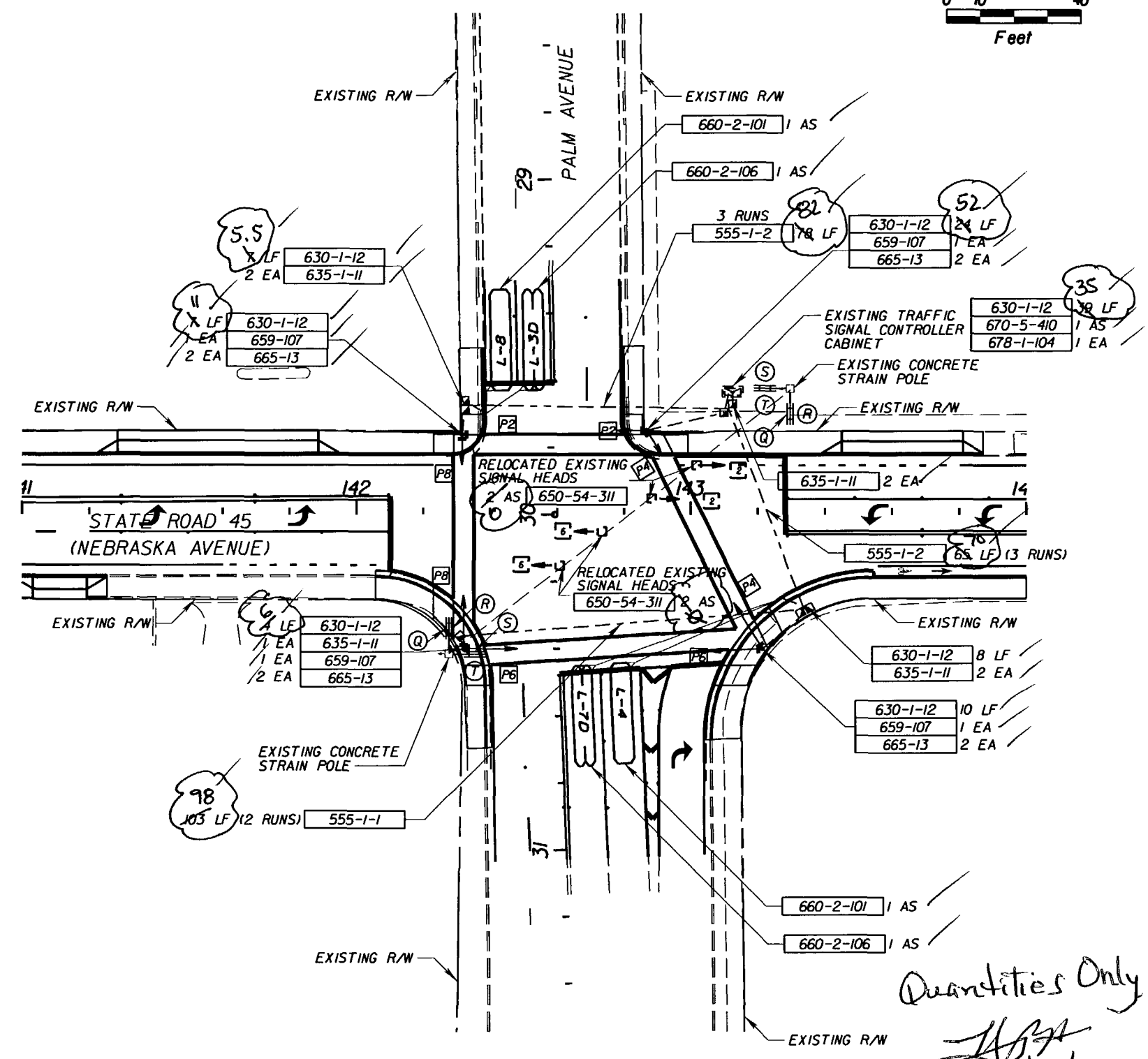
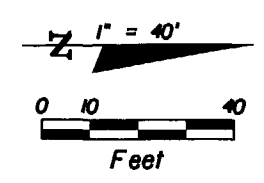
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS PALM AVENUE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. FOR OVERHEAD STREET NAME SIGN PANELS "Q", "R", "S", AND "T", SEE DETAILS LOCATED ON SHEET T-29. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
4. EXISTING CONTROLLER TO BE MODIFIED. TWO NEW CONDUITS FROM THE BASE OF THE CONTROLLER SHALL BE FURNISHED AND INSTALLED TO ACCOMMODATE HIGH AND LOW VOLTAGE CONDUCTORS FROM THE PEDESTRIAN SIGNAL HEADS AND LOOP ASSEMBLIES.



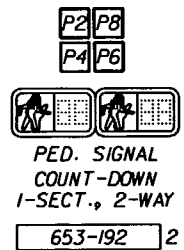
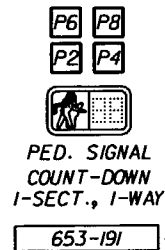
Q/R	4 EA
700-48-18	4 EA
S/T	4 EA
700-48-18	4 EA



Quantities Only
 HBA
 1/6/08

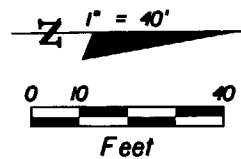
REVISIONS						E.O.R. : BIJAN BEHZADI, P.E.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-10
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. No.: 43868	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SIGNALIZATION PLAN SHEET		
						ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	S.R. 45	HILLSBOROUGH	255853-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.



SIGNALIZATION REMOVAL ITEMS

690-20	8 EA
690-31	2 EA
690-70	4 EA
690-90	1 PI
690-100	1 PI

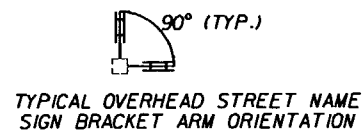


CONTROLLER OPERATION NOTES:

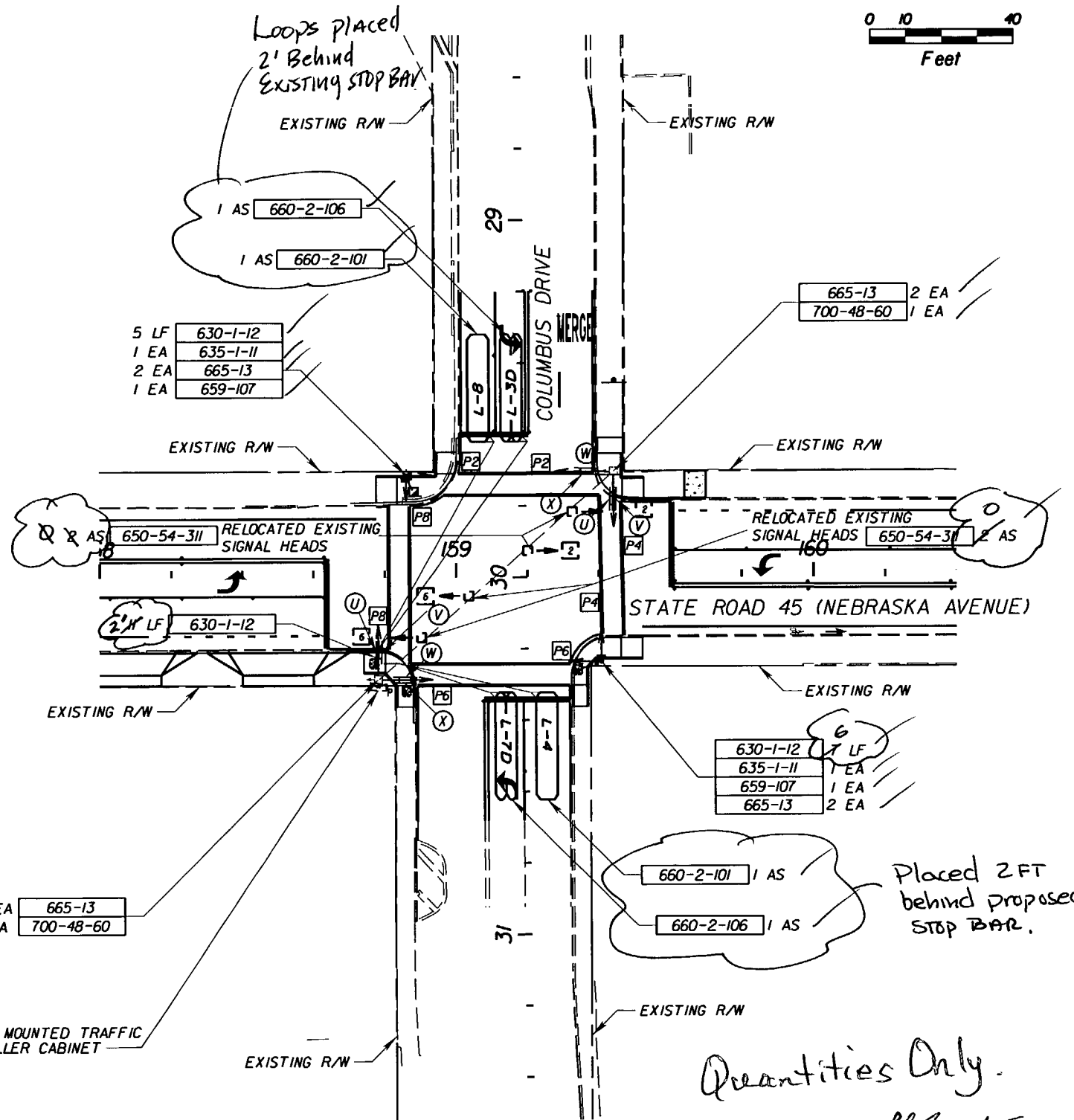
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS COLUMBUS DRIVE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRES IN PROPOSED PULL BOXES.
4. FOR OVERHEAD STREET NAME SIGN PANELS "U", "V", "W", AND "X", SEE DETAILS LOCATED ON SHEET T-30. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.



(U)(V)	700-48-18	4 EA
(W)(X)	700-48-18	4 EA



EXISTING POLE MOUNTED TRAFFIC SIGNAL CONTROLLER CABINET

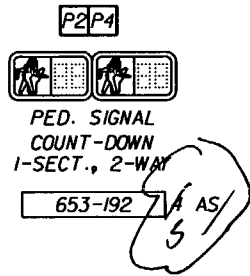
Quantities Only.

[Handwritten signature]
11/16/08

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-II
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

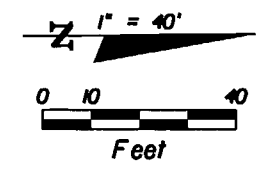
SIGNALIZATION PLAN SHEET

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



SIGNALIZATION
 REMOVAL ITEMS

690-90	1 PI
690-100	1 PI

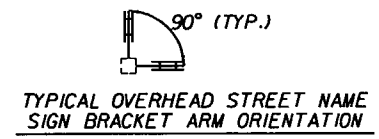


CONTROLLER OPERATION NOTES:

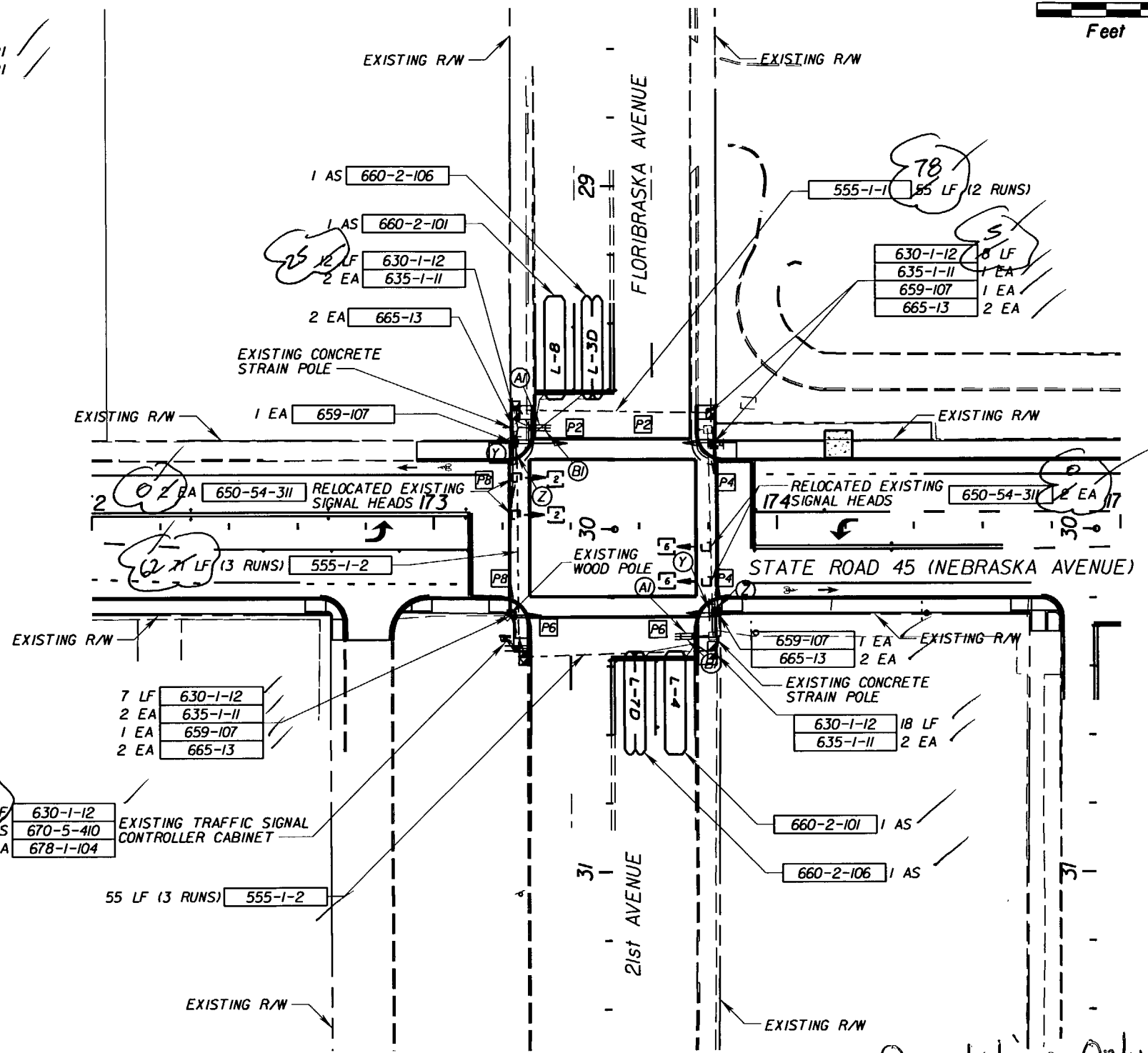
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS FLORIBRASKA AVENUE / 21st AVENUE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPICED WITH EXISTING LOOP LEAD-IN WIRE IN PROPOSED PULL BOX.
3. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
4. FOR OVERHEAD STREET NAME SIGN PANELS "Y", "Z", "A", AND "B", SEE DETAILS LOCATED ON SHEET T-31. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
5. EXISTING CONTROLLER TO BE MODIFIED. TWO NEW CONDUITS FROM THE BASE OF THE CONTROLLER SHALL BE FURNISHED AND INSTALLED TO ACCOMMODATE THE HIGH AND LOW VOLTAGE CONDUCTORS FROM THE PEDESTRIAN SIGNAL HEADS AND LOOP ASSEMBLIES.



Y Z	700-48-19	4 EA
A B	700-48-18	4 EA



Quantities Only.
 11/16/08

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-12
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

2 4 6 8



TRAFFIC SIGNAL
3-SECTION, 1-WAY

650-51-313 8 AS
659-101 4 EA
659-106 24 EA

P2/P8
P4/P6



PED. SIGNAL
COUNT-DOWN
1-SECT., 1-WAY

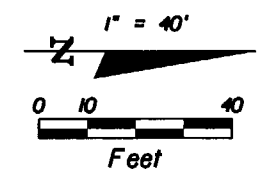
653-191 4 AS

P6/P8
P2/P4



LED PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY

653-192 2 AS



CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS LAKE AVENUE.
2. CONTROLLER CABINET SHALL BE WIRED INITIALLY FOR STANDARD SIGNAL OPERATING PLAN 1 WITH 16 POSITION BACKPLANE.
3. SIGNAL TIMINGS AND DELAY TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.

SIGNALIZATION GENERAL NOTES:

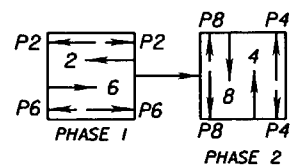
1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. POWER SERVICE METER BASE AND MAIN DISCONNECT SHALL BE INSTALLED ON A TYPE N-11 PRESTRESSED CONCRETE SERVICE POLE AS SHOWN PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX No. 17504 AND No. 17736.
3. TYPE "A" LOOPS SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
4. FOR OVERHEAD STREET NAME SIGN PANELS "CI", "DI", "EI", AND "FI", SEE DETAILS LOCATED ON SHEET T-32. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
5. SIGNAL HEAD ASSEMBLIES FOR MOVEMENTS 4 AND 8 SHALL HAVE BACKPLATES.
6. EXISTING AERIAL INTERCONNECT COMMUNICATION CABLE SHALL BE SPLICED AT THE NORTHWEST CORNER. THE EXISTING INTERCONNECT COMMUNICATION CABLE SHALL RUN DOWN THE EXISTING TECO POLE AT THE NORTHWEST CORNER AND UNDERGROUND INTO THE PROPOSED TRAFFIC SIGNAL CONTROLLER ASSEMBLY.

90° (TYP.)



TYPICAL OVERHEAD STREET NAME
SIGN BRACKET ARM ORIENTATION

STANDARD SIGNAL OPERATION PLAN 1



DETECTORS FOR LOOPS			
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	DELAY TIME (SEC)
L-4D	2	1	7.0
L-8D	1	1	7.0

(CI) (DI) (EI) (FI)

700-48-18 4 EA

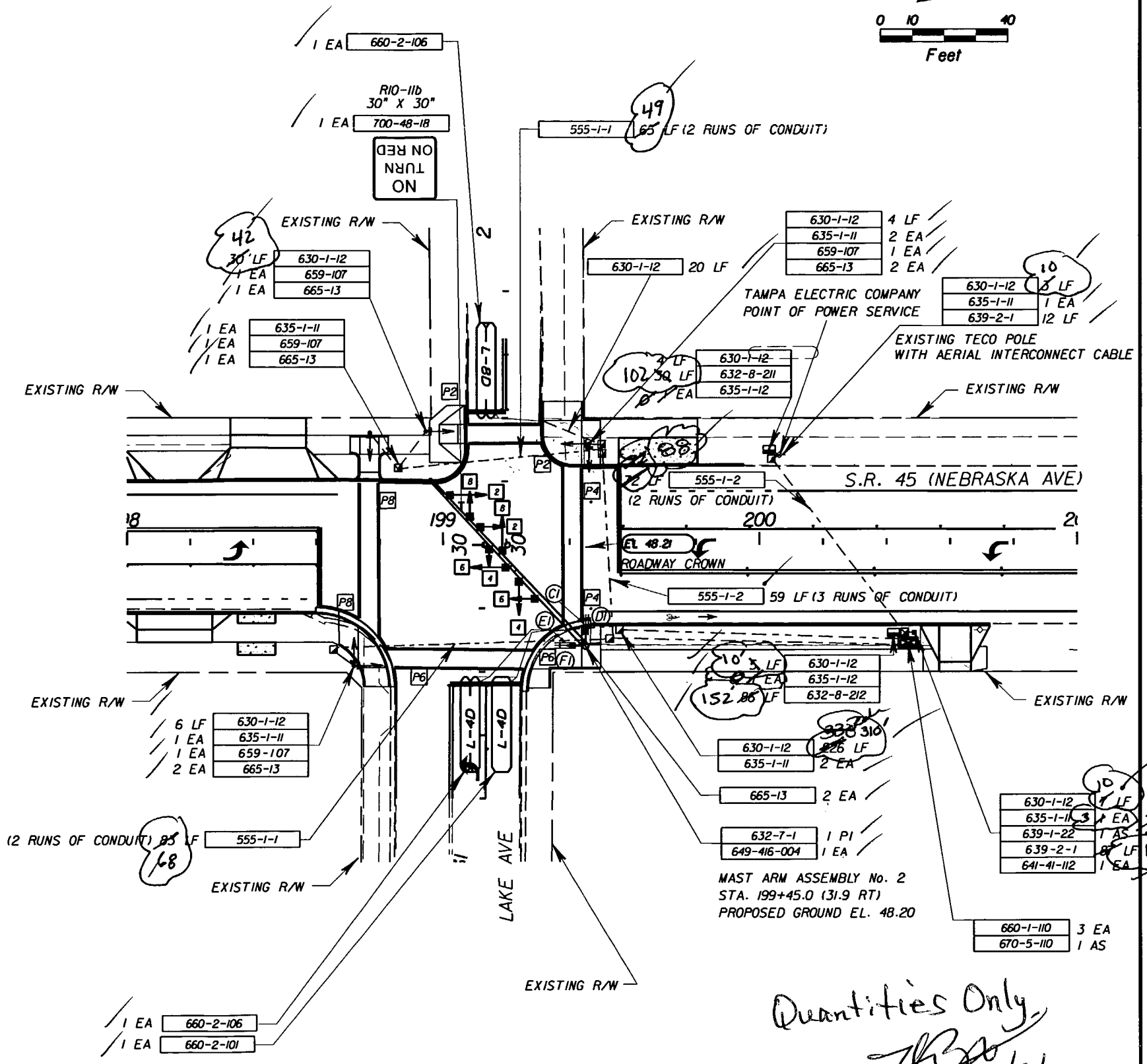
SIGNALIZATION
REMOVAL ITEMS

690-10	8 EA
690-33-1	10 LF
690-50	1 EA
690-80	1 EA
690-90	1 PI
690-100	1 PI

CONTROLLER TIMINGS *

TIMING FUNCTION	2	4	6	8
MOVEMENT NUMBER	2	4	6	8
MINIMUM GREEN	10	10	10	10
EXTENSION	3	3	3	3
MAXIMUM GREEN 1	55	25	55	25
MAXIMUM GREEN 2	55	25	55	25
YELLOW CLEARANCE	4	4	4	4
ALL RED	1	2	1	2
PEDESTRIAN WALK	4	4	4	4
PED. CLEARANCE	6	8	6	8
RECALL	MAX	MAX		

* EXISTING TIMINGS PROVIDED
BY THE CITY OF TAMPA



Quantities Only
11/6/08

REVISIONS					E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-13
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	ROAD NO.	COUNTY	
						S.R. 45	HILLSBOROUGH	255853-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6G05-23.003, F.A.C.

P2 P8 P6 P8
P2 P4 P4 P6

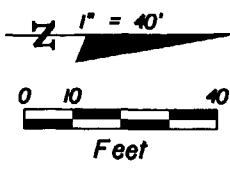


PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY

653-192 4 AS

**SIGNALIZATION
REMOVAL ITEMS**

690-20	8 EA
690-70	8 EA
690-90	1 PI
690-100	1 PI
690-31	1 EA

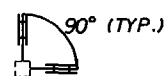


CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS STATE ROAD 574 (DR. MARTIN LUTHER KING JR. BOULEVARD).
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

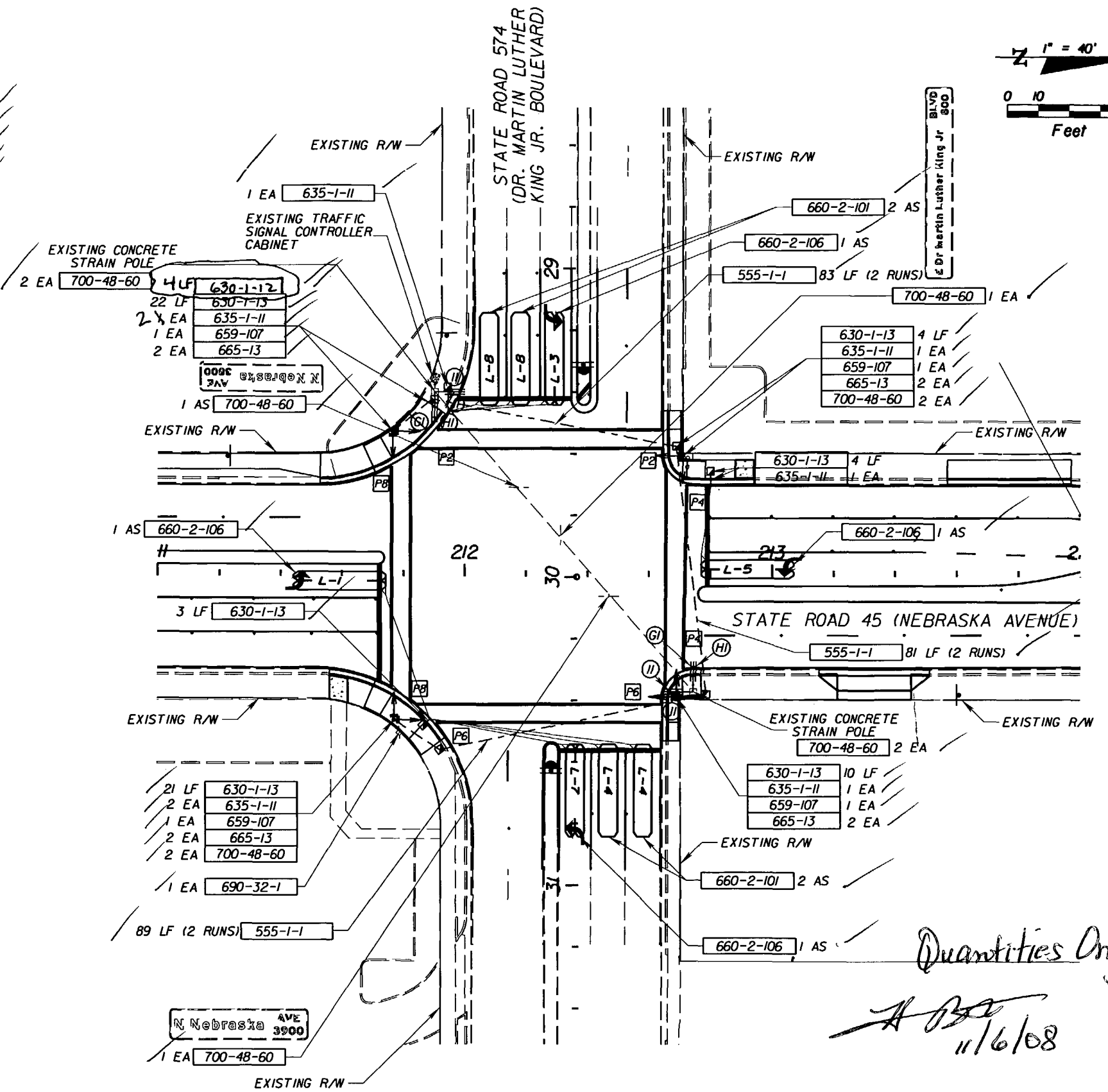
SIGNALIZATION GENERAL NOTES:

1. TYPE "A" LOOP ASSEMBLIES AND TYPE "F" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
2. PROPOSED LOOP ASSEMBLY LOOP WIRES TO BE SPLICED WITH EXISTING LOOP LEAD-IN WIRES IN PROPOSED PULL BOXES.
3. FOR OVERHEAD STREET NAME SIGN PANELS "GI", "HI", "II", AND "JI", SEE DETAILS LOCATED ON SHEET T-33. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.



TYPICAL OVERHEAD STREET NAME
SIGN BRACKET ARM ORIENTATION

GI HI II JI
699-1-1 4 EA

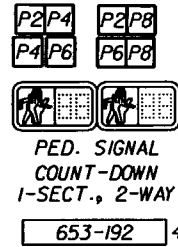


Quantities Only.
A. [Signature]
11/6/08

700-48-60 = PLAN MATRIX SHOWS QTY OF 8 / PLAN SHEET SHOWS 11 / ACTUAL PLACED QTY OF 11 EA

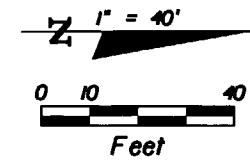
REVISIONS						E.O.R. : BIJAN BEHZADI, P.E.			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-14
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	P.E. No.: 43868			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456			S.R. 45	HILLSBOROUGH	255853-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.003, F.A.C.



SIGNALIZATION REMOVAL ITEMS

690-90	1 PI
690-100	1 PI

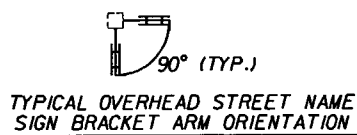


CONTROLLER OPERATION NOTES:

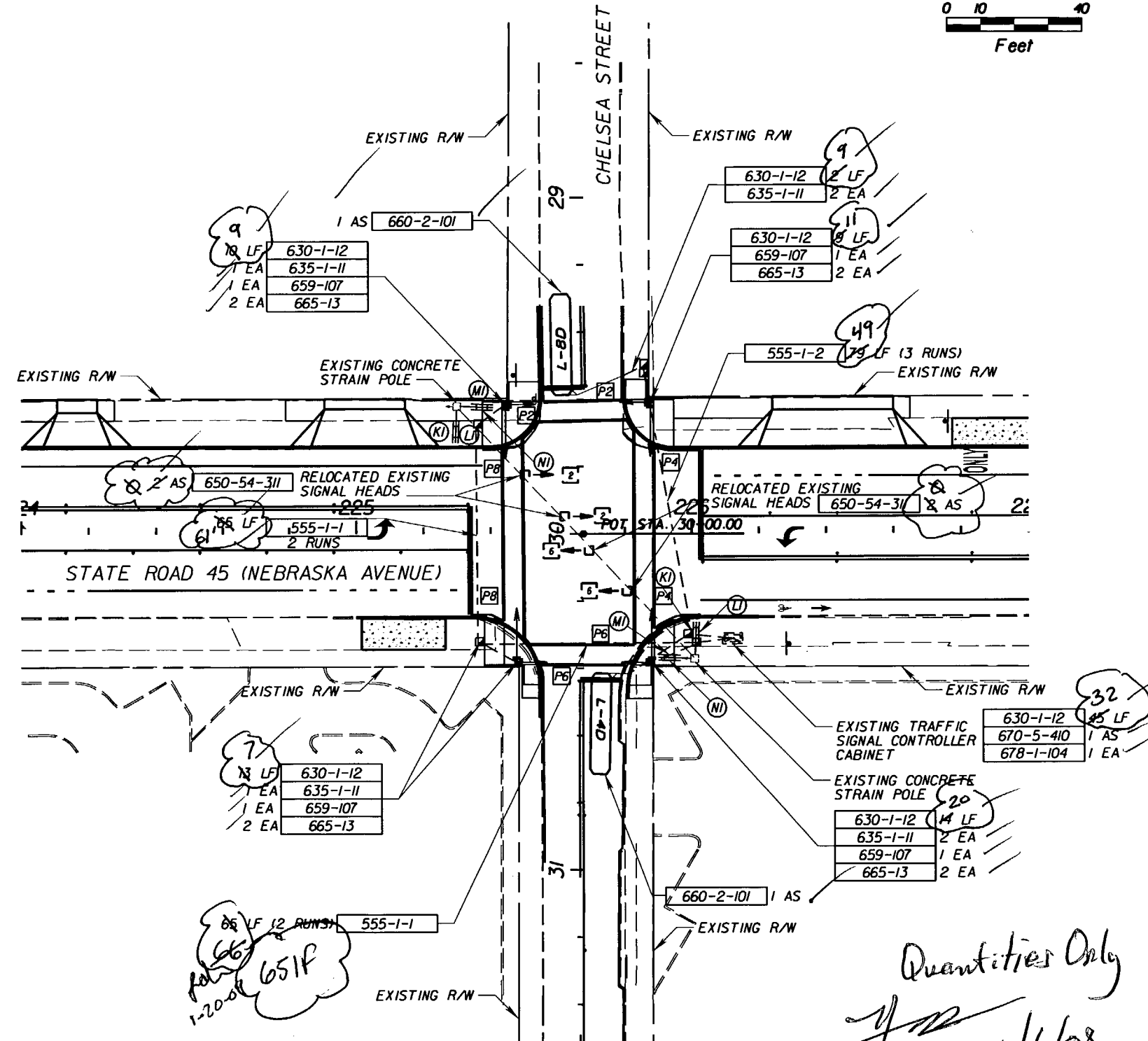
1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS CHELSEA AVENUE.
2. EXISTING SIGNAL OPERATING PLAN AND SIGNAL TIMINGS TO REMAIN.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TYPE "A" LOOP ASSEMBLIES SHALL BE 6' x 30' AND PLACED 2' AHEAD OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
3. FOR OVERHEAD STREET NAME SIGN PANELS "GI", "HI", "II", AND "JI", SEE DETAILS LOCATED ON SHEET T-34. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
4. EXISTING CONTROLLER TO BE MODIFIED. TWO NEW CONDUITS FROM THE BASE OF THE CONTROLLER SHALL BE FURNISHED AND INSTALLED TO ACCOMMODATE THE HIGH AND LOW VOLTAGE CONDUCTORS FROM THE PEDESTRIAN SIGNAL HEADS AND LOOP ASSEMBLIES.
5. PEDESTRIAN DETECTOR STATIONS SHALL BE PROVIDED FOR PEDESTRIAN SIGNAL HEADS P4 AND P8.



(KI) (LI)	700-48-1B	4 EA
(MI) (NI)	700-48-1B	4 EA



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
 P.E. No.: 43868
 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
 11201 NORTH MCKINLEY DRIVE
 TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

SIGNALIZATION PLAN SHEET

SHEET NO. T-15

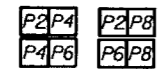
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.003, F.A.C.

2 4 6 8



TRAFFIC SIGNAL,
3 SECTION, 1 WAY

650-51-313	8 AS
659-101	4 EA
659-106	24 EA

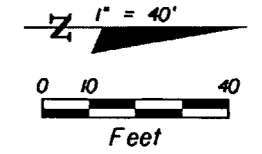


LED PED. SIGNAL
COUNT-DOWN
1-SECT., 2-WAY

653-192	4 AS
---------	------

SIGNALIZATION
REMOVAL ITEMS

690-10	8 EA
690-33-1	40 LF
690-50	1 EA
690-60	4 EA
690-80	1 EA
690-90	1 PI
690-100	1 PI

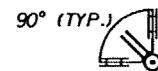


CONTROLLER OPERATION NOTES:

1. THE MAJOR STREET IS STATE ROAD 45 (NEBRASKA AVENUE). THE MINOR STREET IS OSBORNE AVENUE.
2. CONTROLLER CABINET SHALL BE WIRED INITIALLY FOR STANDARD SIGNAL OPERATING PLAN 1 WITH 16 POSITION BACKPLANE.
3. SIGNAL TIMINGS AND DELAY TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.

SIGNALIZATION GENERAL NOTES:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. POWER SERVICE METER BASE AND MAIN DISCONNECT SHALL BE INSTALLED ON A TYPE N-11 PRESTRESSED CONCRETE SERVICE POLE AS SHOWN PER FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX No. 17504 AND No. 17736.
3. TYPE "A" LOOPS SHALL BE 6' x 30' AND PLACED 2' DOWNSTREAM OF THE APPROPRIATE STOP BAR, UNLESS OTHERWISE SHOWN IN THE PLANS.
4. FOR OVERHEAD STREET NAME SIGN PANELS "Q1", "P1", "Q1", AND "R1", SEE DETAILS LOCATED ON SHEET T-35. SIGN BRACKET ARMS SHALL BE USED FOR OVERHEAD STREET NAME SIGNS. SEE SHEET T-36 AND SHEET T-37 FOR TWO WAY OVERHEAD STREET NAME SIGN BRACKET ARM DETAILS.
5. SIGNAL HEAD ASSEMBLIES FOR MOVEMENTS 4 AND 8 SHALL HAVE BACKPLATES.
6. EXISTING AERIAL INTERCONNECT COMMUNICATION CABLE SHALL BE SPLICED AT THE NORTHWEST CORNER. THE EXISTING INTERCONNECT COMMUNICATION CABLE SHALL RUN DOWN THE PROPOSED TECO POLE AT THE NORTHWEST CORNER AND UNDERGROUND INTO THE PROPOSED TRAFFIC SIGNAL CONTROLLER ASSEMBLY.
7. PEDESTRIAN DETECTOR STATIONS SHALL BE PROVIDED FOR PEDESTRIAN SIGNAL HEADS P4 AND P8.



TYPICAL OVERHEAD STREET NAME
SIGN BRACKET ARM ORIENTATION

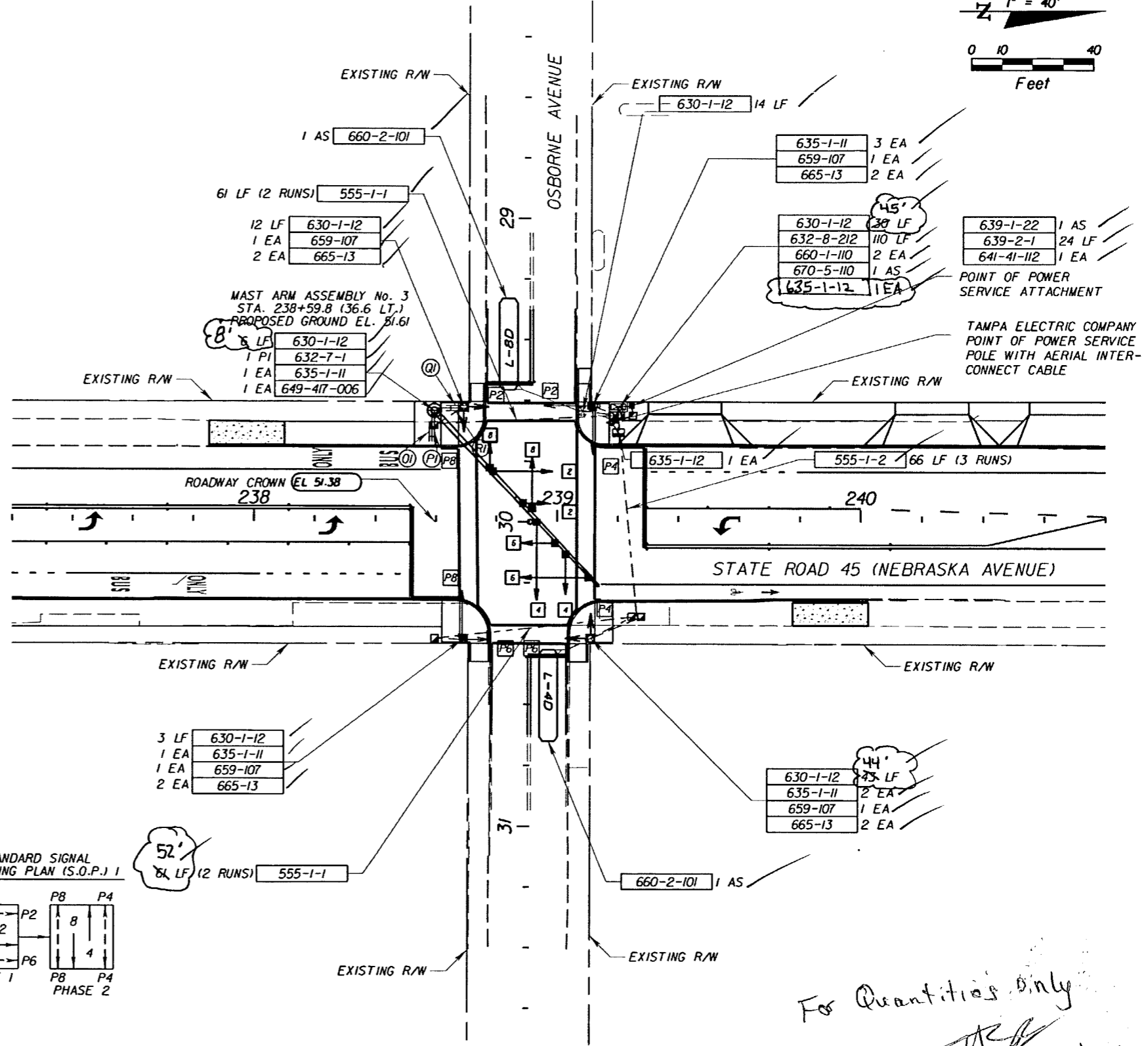
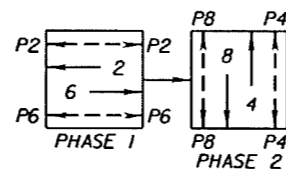
Q1/P1	2 EA
Q1/R1	2 EA

CONTROLLER TIMINGS *			
TIMING FUNCTION			
MOVEMENT NUMBER	2, 6, 4, 8		
MINIMUM GREEN	10.0	10.0	
VEHICLE EXTENSION	3.0	3.0	
MAXIMUM GREEN 1	80.0	25.0	
MAXIMUM GREEN 2	80.0	25.0	
YELLOW CLEARANCE	4.0	4.0	
ALL RED	1.0	1.0	
PEDESTRIAN WALK	4.0	4.0	
PED. CLEARANCE	8.0	14.0	
RECALL	MAX	---	

* EXISTING TIMINGS PROVIDED
BY THE CITY OF TAMPA

DETECTORS FOR LOOPS			
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	DELAY TIME (SEC.)
L-4D	1	1	7.0
L-8D	1	1	7.0

STANDARD SIGNAL
OPERATING PLAN (S.O.P.) 1

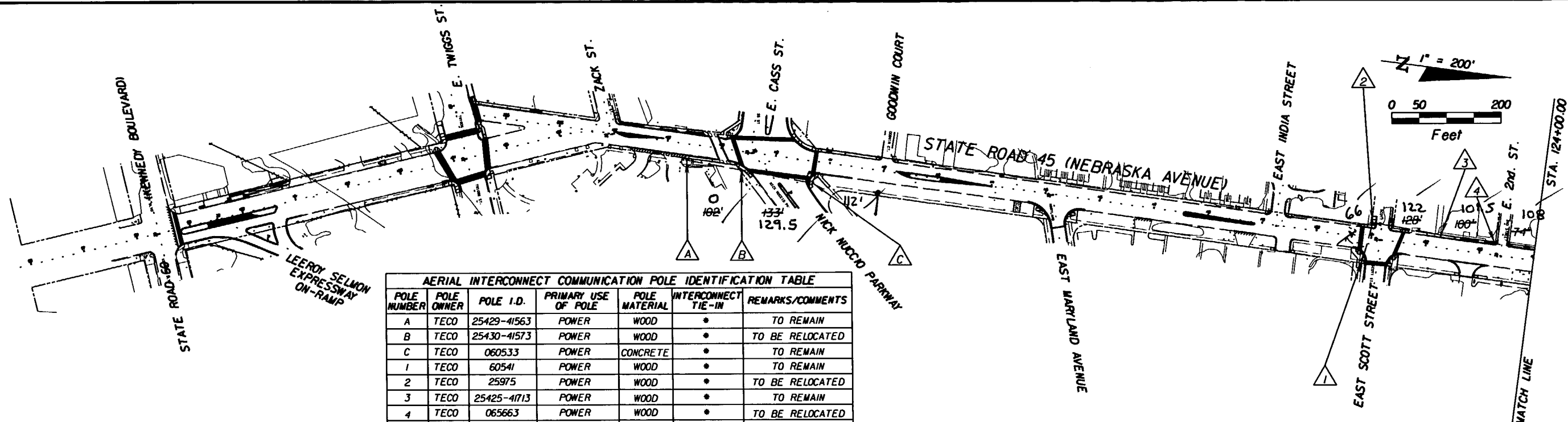


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[Signature]
12/18/08

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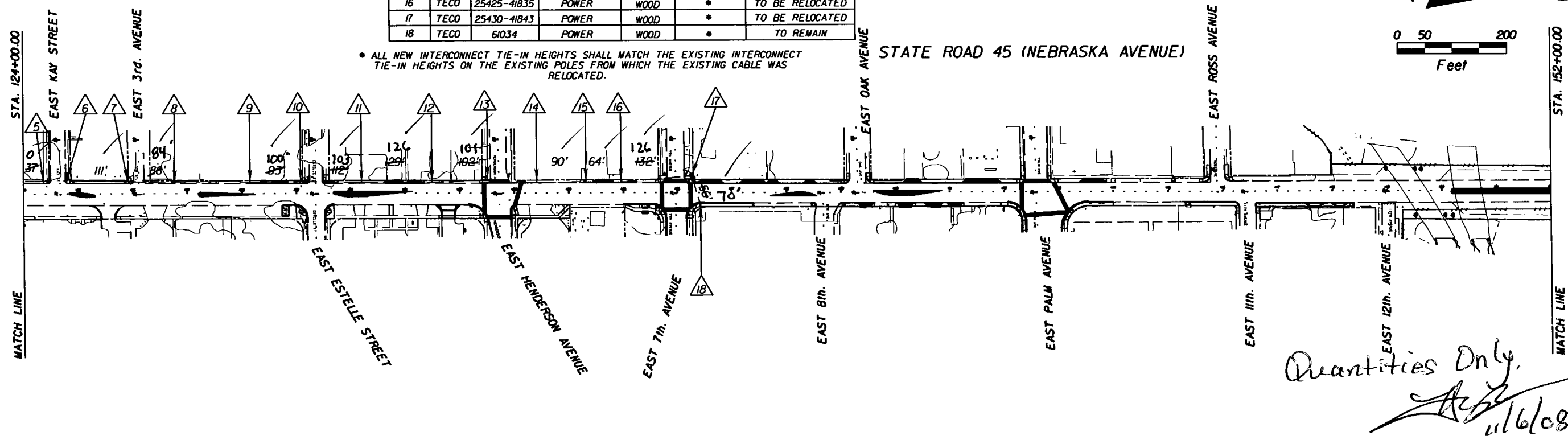
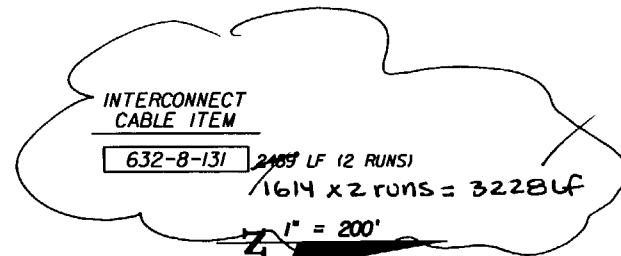
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-16
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	S.R. 45	HILLSBOROUGH	255853-1-52-01	



POLE NUMBER	POLE OWNER	POLE I.D.	PRIMARY USE OF POLE	POLE MATERIAL	INTERCONNECT TIE-IN	REMARKS/COMMENTS
A	TECO	25429-41563	POWER	WOOD	*	TO REMAIN
B	TECO	25430-41573	POWER	WOOD	*	TO BE RELOCATED
C	TECO	060533	POWER	CONCRETE	*	TO REMAIN
1	TECO	60541	POWER	WOOD	*	TO REMAIN
2	TECO	25975	POWER	WOOD	*	TO BE RELOCATED
3	TECO	25425-41713	POWER	WOOD	*	TO REMAIN
4	TECO	065663	POWER	WOOD	*	TO BE RELOCATED
5	TECO	NO I.D. #	POWER	WOOD	*	TO REMAIN
6	TECO	25424-41730	POWER	WOOD	*	TO REMAIN
7	TECO	65669	POWER	WOOD	*	TO BE RELOCATED
8	TECO	65676	POWER	WOOD	*	TO REMAIN
9	TECO	254425-41770	POWER	WOOD	*	TO REMAIN
10	TECO	65678	POWER	WOOD	*	TO BE RELOCATED
11	TECO	65681	POWER	WOOD	*	TO BE RELOCATED
12	TECO	NO I.D. #	POWER	WOOD	*	TO BE RELOCATED
13	TECO	065685	POWER	WOOD	*	TO REMAIN
14	TECO	065689	POWER	WOOD	*	TO REMAIN
15	TECO	065690	POWER	WOOD	*	TO BE RELOCATED
16	TECO	25425-41835	POWER	WOOD	*	TO BE RELOCATED
17	TECO	25430-41843	POWER	WOOD	*	TO BE RELOCATED
18	TECO	61034	POWER	WOOD	*	TO REMAIN

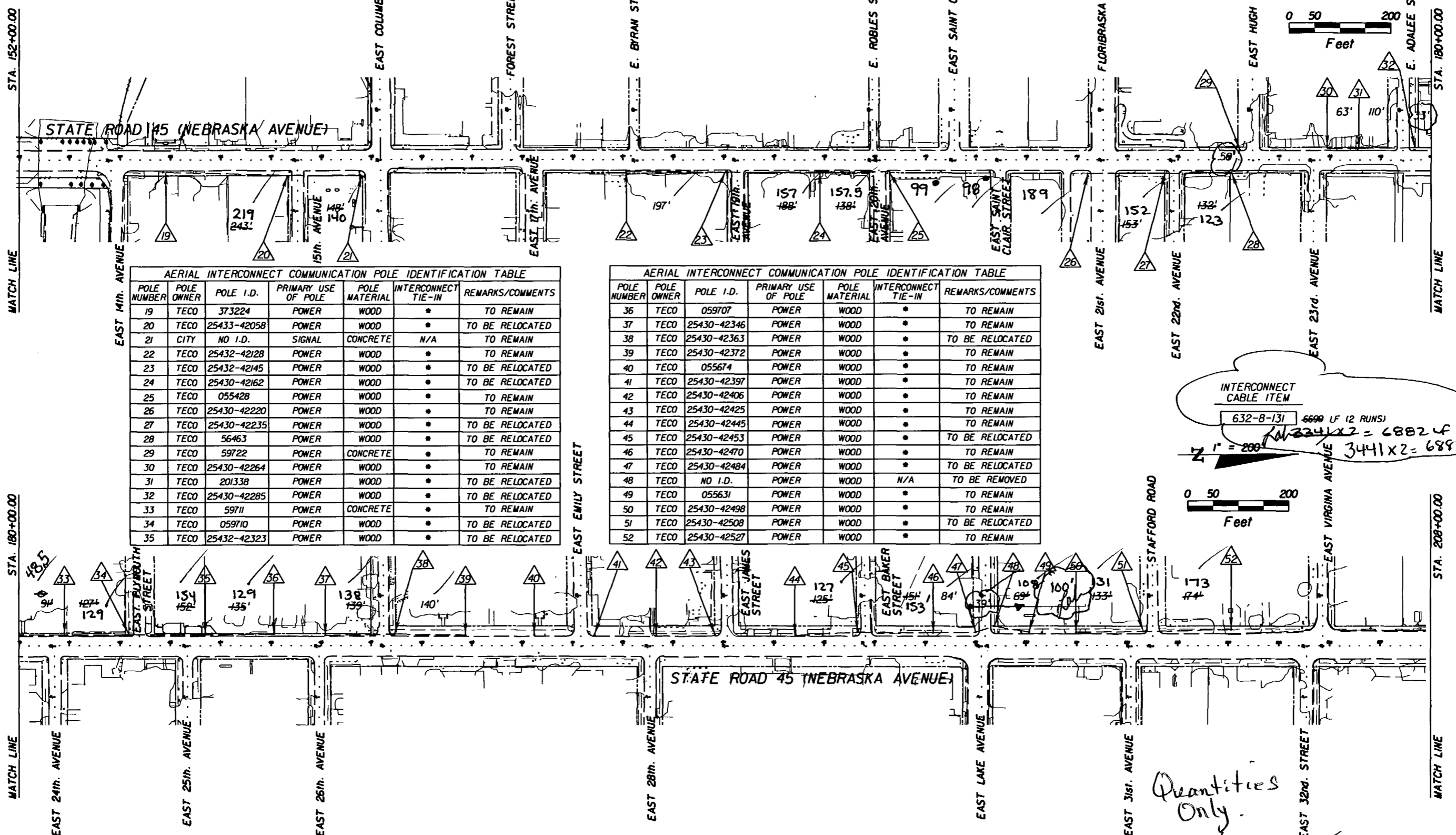
* ALL NEW INTERCONNECT TIE-IN HEIGHTS SHALL MATCH THE EXISTING INTERCONNECT TIE-IN HEIGHTS ON THE EXISTING POLES FROM WHICH THE EXISTING CABLE WAS RELOCATED.



Quantities Only
[Signature]
 11/6/08

REVISIONS				E.O.R. : BIJAN BEHZADI, P.E.		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01	T-17

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AERIAL INTERCONNECT COMMUNICATION POLE IDENTIFICATION TABLE

POLE NUMBER	POLE OWNER	POLE I.D.	PRIMARY USE OF POLE	POLE MATERIAL	INTERCONNECT TIE-IN	REMARKS/COMMENTS
19	TECO	373224	POWER	WOOD	*	TO REMAIN
20	TECO	25433-42058	POWER	WOOD	*	TO BE RELOCATED
21	CITY	NO I.D.	SIGNAL	CONCRETE	N/A	TO REMAIN
22	TECO	25432-42128	POWER	WOOD	*	TO REMAIN
23	TECO	25432-42145	POWER	WOOD	*	TO BE RELOCATED
24	TECO	25430-42162	POWER	WOOD	*	TO BE RELOCATED
25	TECO	055428	POWER	WOOD	*	TO REMAIN
26	TECO	25430-42220	POWER	WOOD	*	TO REMAIN
27	TECO	25430-42235	POWER	WOOD	*	TO BE RELOCATED
28	TECO	56463	POWER	WOOD	*	TO BE RELOCATED
29	TECO	59722	POWER	CONCRETE	*	TO REMAIN
30	TECO	25430-42264	POWER	WOOD	*	TO REMAIN
31	TECO	201338	POWER	WOOD	*	TO BE RELOCATED
32	TECO	25430-42285	POWER	WOOD	*	TO BE RELOCATED
33	TECO	59711	POWER	CONCRETE	*	TO REMAIN
34	TECO	059710	POWER	WOOD	*	TO BE RELOCATED
35	TECO	25432-42323	POWER	WOOD	*	TO BE RELOCATED

AERIAL INTERCONNECT COMMUNICATION POLE IDENTIFICATION TABLE

POLE NUMBER	POLE OWNER	POLE I.D.	PRIMARY USE OF POLE	POLE MATERIAL	INTERCONNECT TIE-IN	REMARKS/COMMENTS
36	TECO	059707	POWER	WOOD	*	TO REMAIN
37	TECO	25430-42346	POWER	WOOD	*	TO REMAIN
38	TECO	25430-42363	POWER	WOOD	*	TO BE RELOCATED
39	TECO	25430-42372	POWER	WOOD	*	TO REMAIN
40	TECO	055674	POWER	WOOD	*	TO REMAIN
41	TECO	25430-42397	POWER	WOOD	*	TO REMAIN
42	TECO	25430-42406	POWER	WOOD	*	TO REMAIN
43	TECO	25430-42425	POWER	WOOD	*	TO REMAIN
44	TECO	25430-42445	POWER	WOOD	*	TO REMAIN
45	TECO	25430-42453	POWER	WOOD	*	TO BE RELOCATED
46	TECO	25430-42470	POWER	WOOD	*	TO REMAIN
47	TECO	25430-42484	POWER	WOOD	*	TO BE RELOCATED
48	TECO	NO I.D.	POWER	WOOD	N/A	TO BE REMOVED
49	TECO	055631	POWER	WOOD	*	TO REMAIN
50	TECO	25430-42498	POWER	WOOD	*	TO REMAIN
51	TECO	25430-42508	POWER	WOOD	*	TO BE RELOCATED
52	TECO	25430-42527	POWER	WOOD	*	TO REMAIN

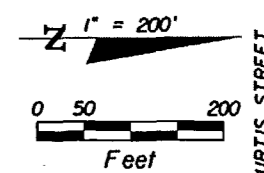
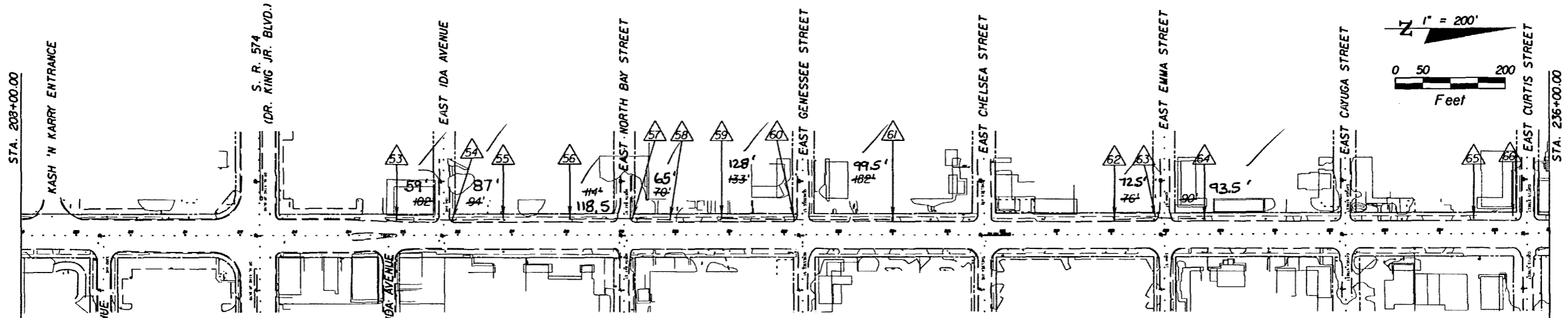
INTERCONNECT CABLE ITEM
 632-8-131 6699 LF (2 RUNS)
 $234 \times 2 = 468$
 $344 \times 2 = 688$

* ALL NEW INTERCONNECT TIE-IN HEIGHTS SHALL MATCH THE EXISTING INTERCONNECT TIE-IN HEIGHTS ON THE EXISTING POLES FROM WHICH THE EXISTING CABLE WAS RELOCATED.

Quantities Only.
[Signature] 11/6/08

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			AERIAL INTERCONNECT CABLE RELOCATION PLAN SHEET	SHEET NO. T-18
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

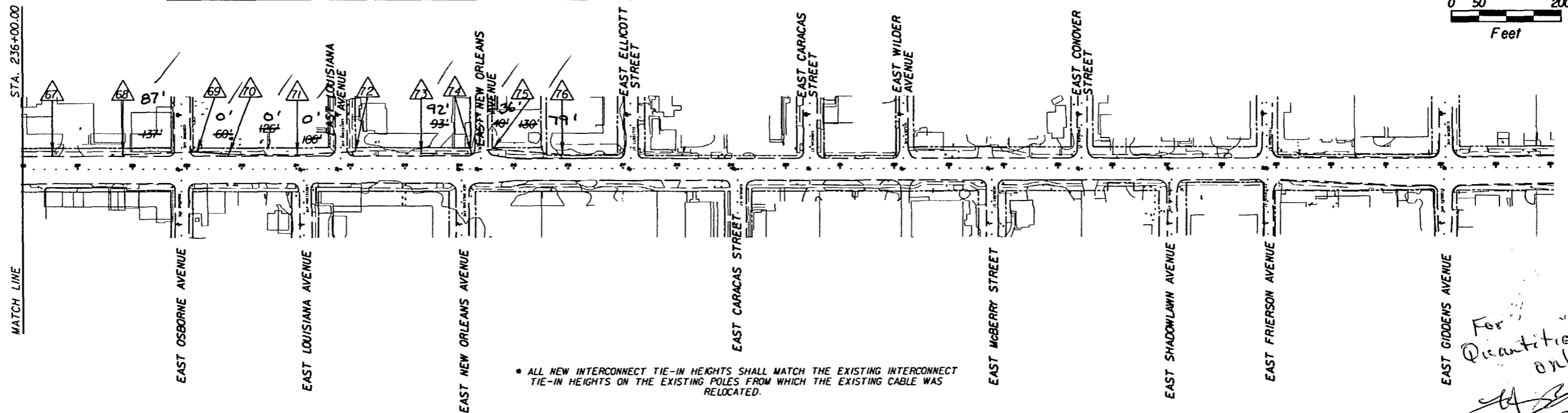
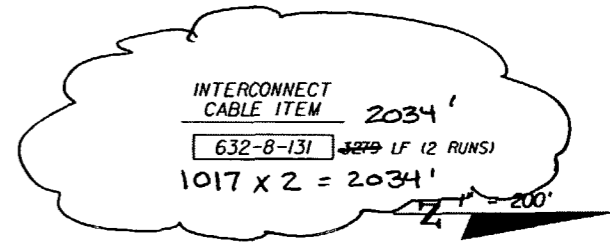
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STATE ROAD 45 (NEBRASKA AVENUE)

POLE NUMBER	POLE OWNER	POLE I.D.	PRIMARY USE OF POLE	POLE MATERIAL	INTERCONNECT TIE-IN	REMARKS/COMMENTS
53	TECO	25430-42627	POWER	WOOD	*	TO REMAIN
54	TECO	25429-42649	POWER	WOOD	*	TO BE RELOCATED
55	TECO	NO I.D. #	POWER	WOOD	*	TO REMAIN
56	TECO	25429-42668	POWER	WOOD	*	TO REMAIN
57	TECO	25429-42677	POWER	WOOD	*	TO BE RELOCATED
58	TECO	25429-42687	POWER	WOOD	*	TO REMAIN
59	TECO	25429-42696	POWER	WOOD	*	TO REMAIN
60	TECO	25429-42706	POWER	WOOD	*	TO BE RELOCATED
61	TECO	091242	POWER	WOOD	*	TO REMAIN
62	TECO	25429-42770	POWER	WOOD	*	TO REMAIN
63	TECO	25430-42777	POWER	WOOD	*	TO BE RELOCATED
64	TECO	25429-42782	POWER	WOOD	*	TO REMAIN

POLE NUMBER	POLE OWNER	POLE I.D.	PRIMARY USE OF POLE	POLE MATERIAL	INTERCONNECT TIE-IN	REMARKS/COMMENTS
65	TECO	25429-42834	POWER	WOOD	*	TO REMAIN
66	TECO	25429-42840	POWER	WOOD	*	TO REMAIN
67	TECO	25429-42853	POWER	WOOD	*	TO REMAIN
68	TECO	NO I.D. #	POWER	CONCRETE	*	TO REMAIN
69	TECO	94954	POWER	WOOD	*	TO BE RELOCATED
70	TECO	25428-42877	POWER	CONCRETE	*	TO REMAIN
71	BRIGHT H.	NO I.D. #	TELEPHONE	WOOD	*	TO BE RELOCATED
72	TECO	25429-42909	POWER	WOOD	*	TO REMAIN
73	TECO	25430-42922	POWER	WOOD	*	TO REMAIN
74	TECO	25430-42930	POWER	WOOD	*	TO BE REMOVED
75	TECO	NO I.D. #	POWER	WOOD	N/A	PROPOSED POLE
76	TECO	25429-42942	POWER	WOOD	*	TO REMAIN



* ALL NEW INTERCONNECT TIE-IN HEIGHTS SHALL MATCH THE EXISTING INTERCONNECT TIE-IN HEIGHTS ON THE EXISTING POLES FROM WHICH THE EXISTING CABLE WAS RELOCATED.

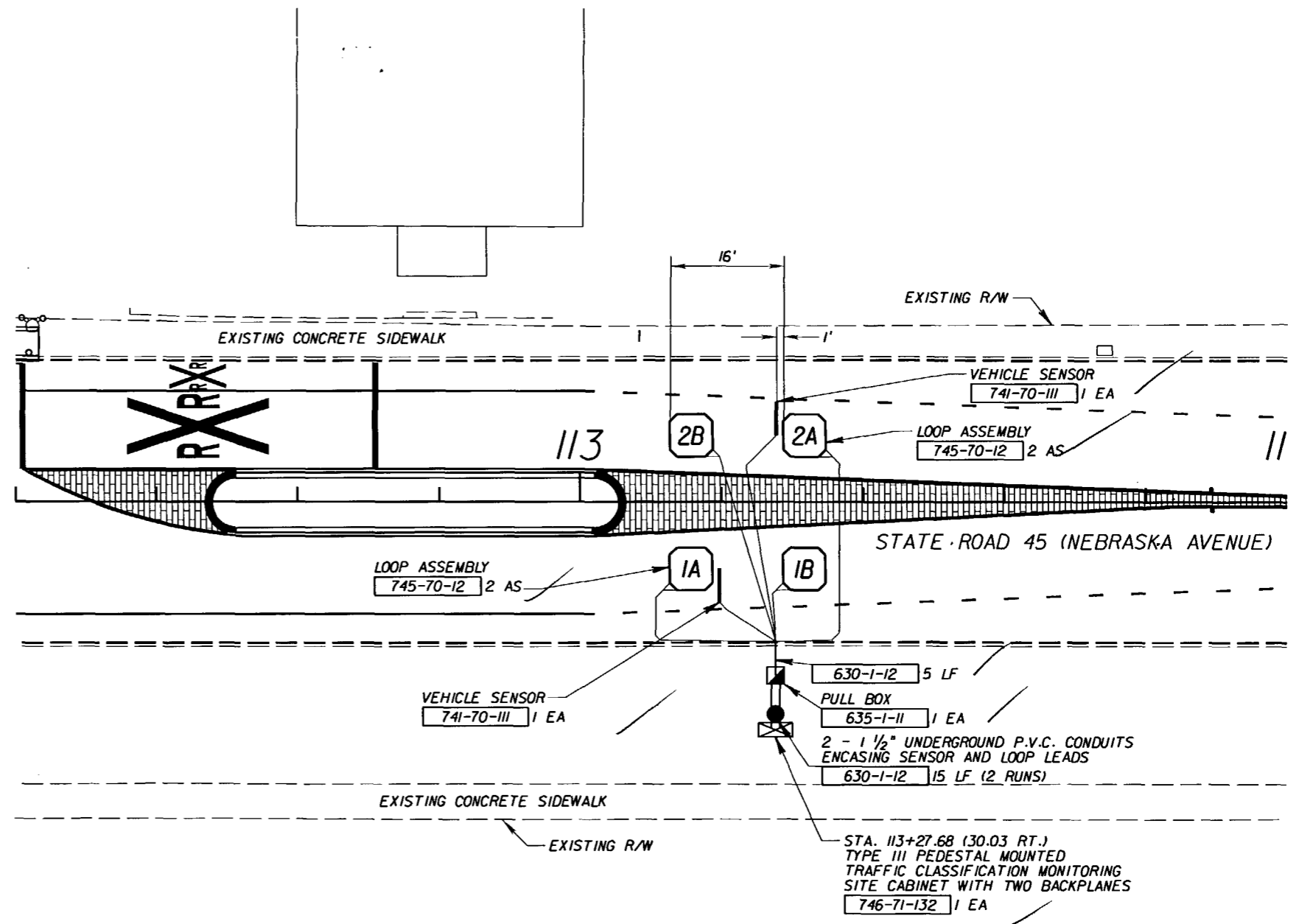
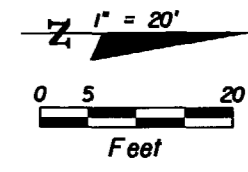
For Quantities only
12/18/08

REVISIONS				E.O.R. : BIJAN BEHZADI, P.E.		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01	T-19

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TRAFFIC CLASSIFICATION MONITORING SITE GENERAL NOTES AND INSTALLATION DETAILS:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TRAFFIC CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
3. THE CONTRACTOR SHALL NOTIFY RUBIE FRASE IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 PLANNING OFFICE AT (813) 975-6413 FORTY-EIGHT HOURS PRIOR TO INSTALLATION OF TRAFFIC CLASSIFICATION MONITORING SITES.
4. VEHICLE SENSORS AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES.
5. TRAFFIC CLASSIFICATION MONITORING SITE VEHICLE SENSORS SHALL BE CLASS II, TYPE I, AND HAVE A WIDTH OF ONE-HALF OF THE TRAVEL LANE.
6. TRAFFIC CLASSIFICATION MONITORING SITE INDUCTIVE LOOP ASSEMBLY DIMENSIONS SHALL BE 6.0' x 6.0' AND SHALL BE CENTERED IN THE TRAVEL LANE.



TRAFFIC CLASSIFICATION MONITORING SITE No. 5074
STATE ROAD 45 (NEBRASKA AVENUE)
STATION 113+27.68 (MILE POST 0.2515)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

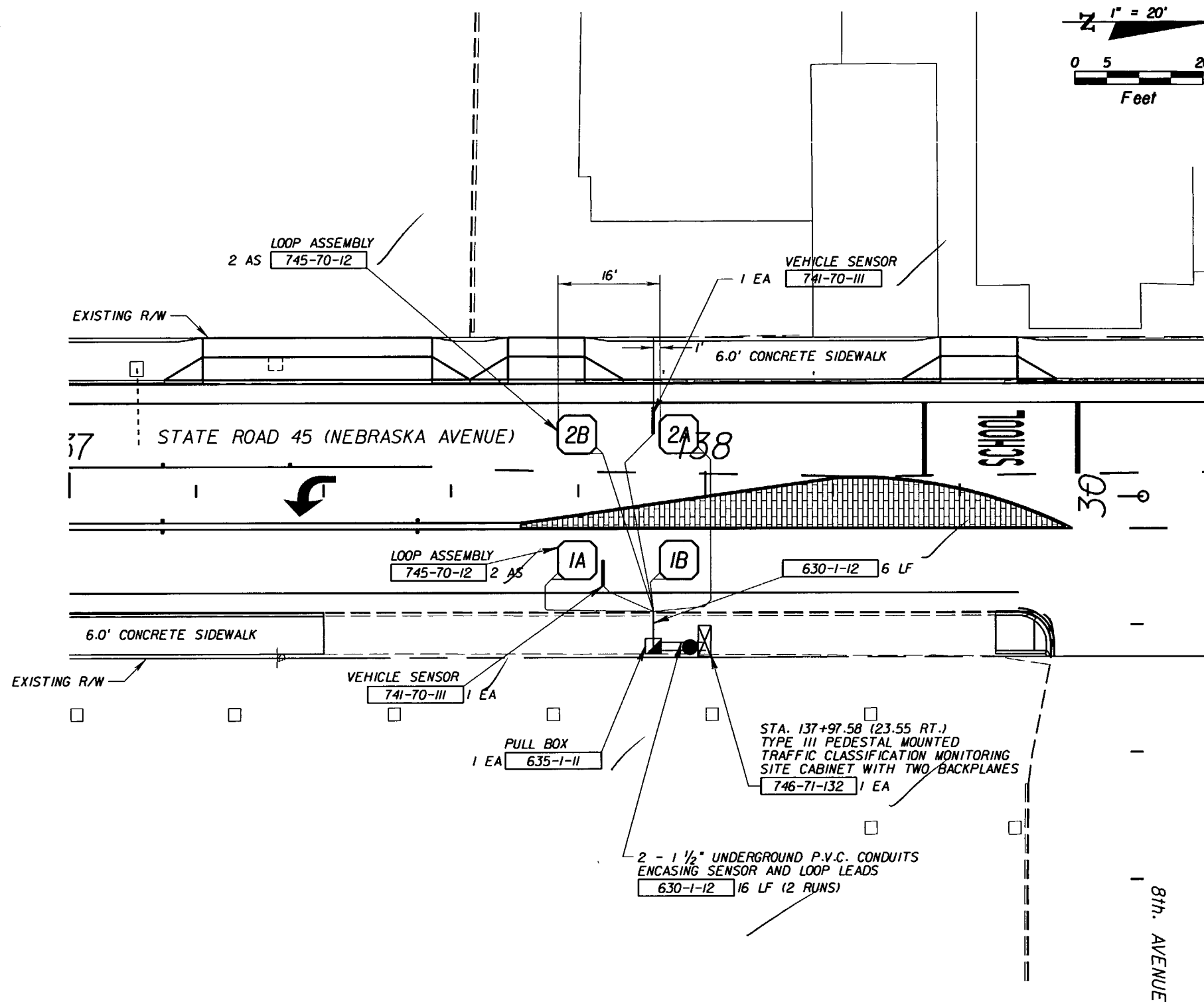
**TRAFFIC CLASSIFICATION
MONITORING SITE PLAN**

SHEET
NO.
T-20

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TRAFFIC CLASSIFICATION MONITORING SITE GENERAL NOTES AND INSTALLATION DETAILS:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TRAFFIC CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
3. THE CONTRACTOR SHALL NOTIFY RUBIE FRASE IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 PLANNING OFFICE AT (813) 975-6413 FORTY-EIGHT HOURS PRIOR TO INSTALLATION OF TRAFFIC CLASSIFICATION MONITORING SITES.
4. VEHICLE SENSORS AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES.
5. TRAFFIC CLASSIFICATION MONITORING SITE VEHICLE SENSORS SHALL BE CLASS II, TYPE I, AND HAVE A WIDTH OF ONE-HALF OF THE TRAVEL LANE.
6. TRAFFIC CLASSIFICATION MONITORING SITE INDUCTIVE LOOP ASSEMBLY DIMENSIONS SHALL BE 6.0' x 6.0' AND SHALL BE CENTERED IN THE TRAVEL LANE.



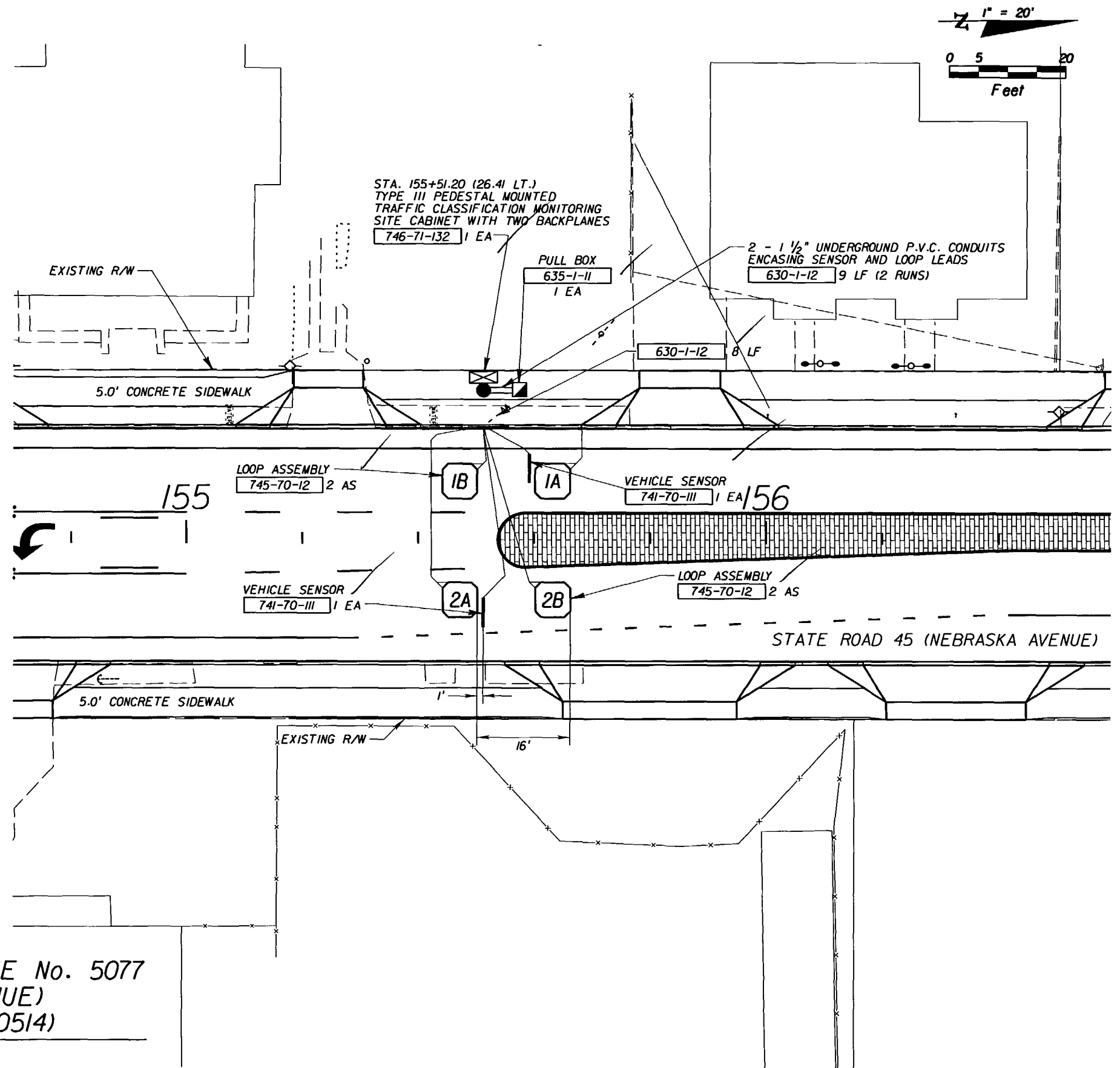
TRAFFIC CLASSIFICATION MONITORING SITE No. 0039
STATE ROAD 45 (NEBRASKA AVENUE)
STATION 137+97.57 (MILE POST 0.7192)

REVISIONS						E.O.R. : <u>BIJAN BEHZADI, P.E.</u> P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CLASSIFICATION MONITORING SITE PLAN	SHEET NO. T-21
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

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TRAFFIC CLASSIFICATION MONITORING SITE GENERAL NOTES AND INSTALLATION DETAILS:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TRAFFIC CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
3. THE CONTRACTOR SHALL NOTIFY RUBIE FRASE IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 PLANNING OFFICE AT (813) 975-6413 FORTY-EIGHT HOURS PRIOR TO INSTALLATION OF TRAFFIC CLASSIFICATION MONITORING SITES.
4. VEHICLE SENSORS AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES.
5. TRAFFIC CLASSIFICATION MONITORING SITE VEHICLE SENSORS SHALL BE CLASS II, TYPE I, AND HAVE A WIDTH OF ONE-HALF OF THE TRAVEL LANE.
6. TRAFFIC CLASSIFICATION MONITORING SITE INDUCTIVE LOOP ASSEMBLY DIMENSIONS SHALL BE 6.0' x 6.0' AND SHALL BE CENTERED IN THE TRAVEL LANE.



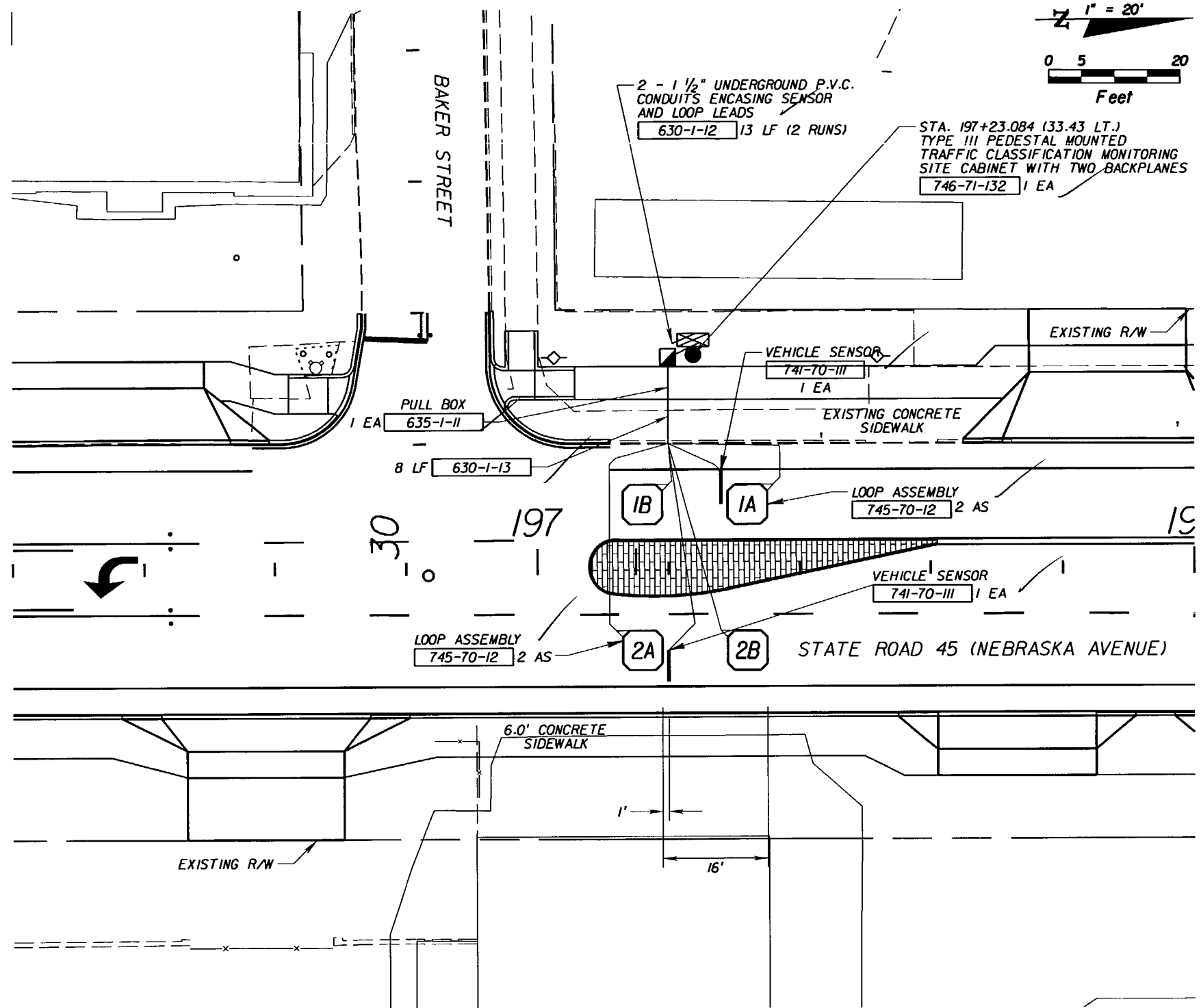
TRAFFIC CLASSIFICATION MONITORING SITE No. 5077
 STATE ROAD 45 (NEBRASKA AVENUE)
 STATION 155+51+20 (MILE POST 1.0514)

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CLASSIFICATION MONITORING SITE PLAN	SHEET NO. T-22
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

TRAFFIC CLASSIFICATION MONITORING SITE GENERAL NOTES AND INSTALLATION DETAILS:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TRAFFIC CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
3. THE CONTRACTOR SHALL NOTIFY RUBIE FRASE IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 PLANNING OFFICE AT (813) 975-6413 FORTY-EIGHT HOURS PRIOR TO INSTALLATION OF TRAFFIC CLASSIFICATION MONITORING SITES.
4. VEHICLE SENSORS AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES.
5. TRAFFIC CLASSIFICATION MONITORING SITE VEHICLE SENSORS SHALL BE CLASS II, TYPE I, AND HAVE A WIDTH OF ONE-HALF OF THE TRAVEL LANE.
6. TRAFFIC CLASSIFICATION MONITORING SITE INDUCTIVE LOOP ASSEMBLY DIMENSIONS SHALL BE 6.0' x 6.0' AND SHALL BE CENTERED IN THE TRAVEL LANE.



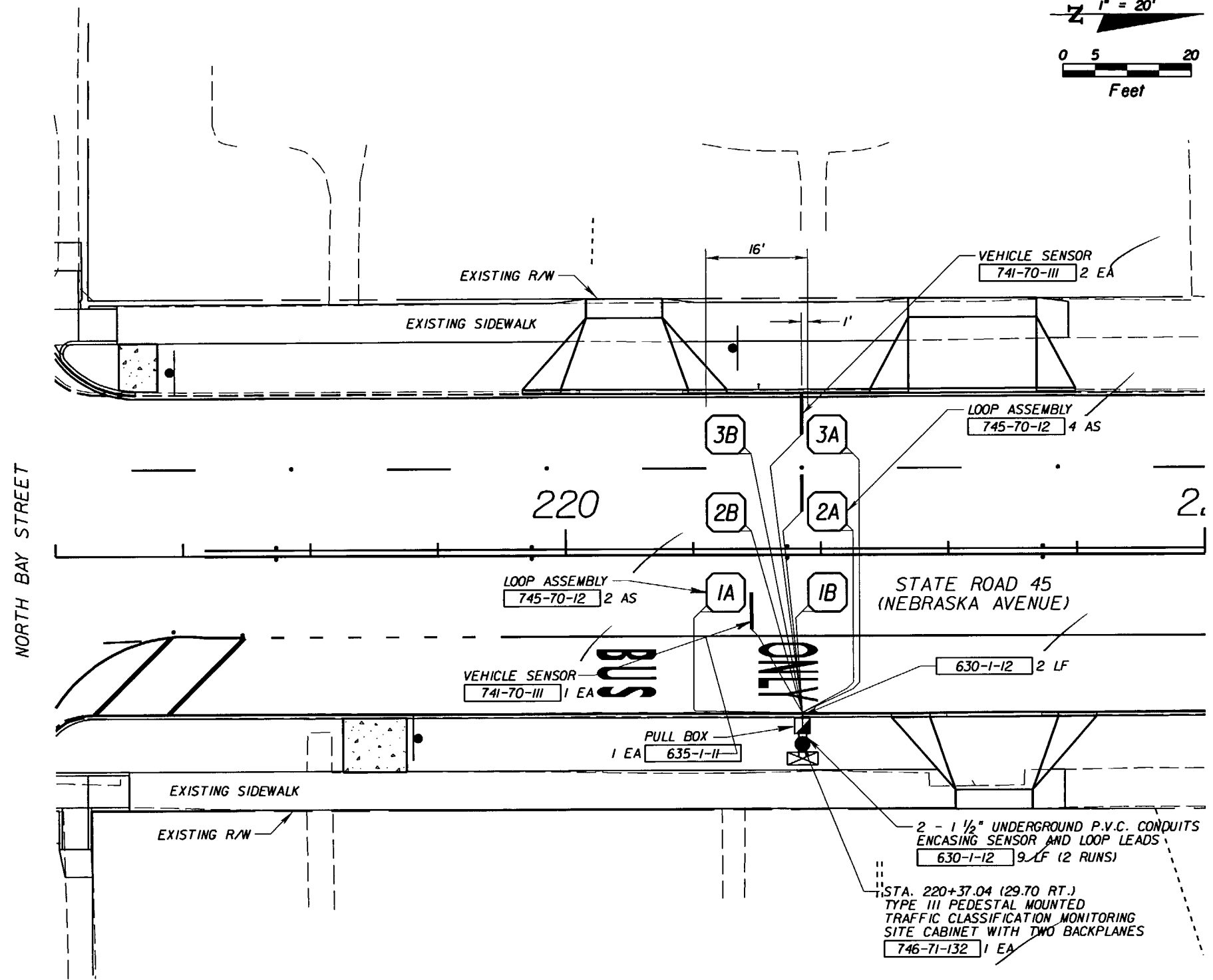
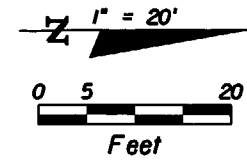
**TRAFFIC CLASSIFICATION MONITORING SITE No. 5078
STATE ROAD 45 (NEBRASKA AVENUE)
STATION 197+21.51 (MILE POST 1.8412)**

REVISIONS						E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CLASSIFICATION MONITORING SITE PLAN	SHEET NO. T-23
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.

TRAFFIC CLASSIFICATION MONITORING SITE GENERAL NOTES AND INSTALLATION DETAILS:

1. STATIONS AND OFFSETS ARE BASED ON THE BASELINE OF SURVEY FOR STATE ROAD 45 (NEBRASKA AVENUE).
2. TRAFFIC CLASSIFICATION MONITORING SITE TO BE MAINTAINED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION. THE CONTRACTOR SHALL SUBMIT A COPY OF THE AS-BUILT PLANS TO THE ENGINEER DURING FINAL INSPECTION.
3. THE CONTRACTOR SHALL NOTIFY RUBIE FRASE IN THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 7 PLANNING OFFICE AT (813) 975-6413 FORTY-EIGHT HOURS PRIOR TO INSTALLATION OF TRAFFIC CLASSIFICATION MONITORING SITES.
4. VEHICLE SENSORS AND LOOP LEADS SHALL BE ROUTED TO PULL BOXES.
5. TRAFFIC CLASSIFICATION MONITORING SITE VEHICLE SENSORS SHALL BE CLASS II, TYPE I, AND HAVE A WIDTH OF ONE-HALF OF THE TRAVEL LANE.
6. TRAFFIC CLASSIFICATION MONITORING SITE INDUCTIVE LOOP ASSEMBLY DIMENSIONS SHALL BE 6.0' x 6.0' AND SHALL BE CENTERED IN THE TRAVEL LANE.

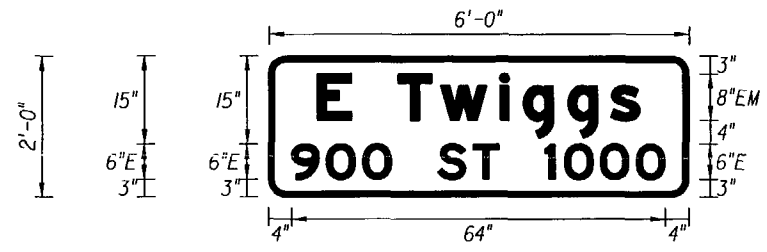


TRAFFIC CLASSIFICATION MONITORING SITE No. 5341
STATE ROAD 45 (NEBRASKA AVENUE)
STATION 220+37.04 (MILE POST 2.310)

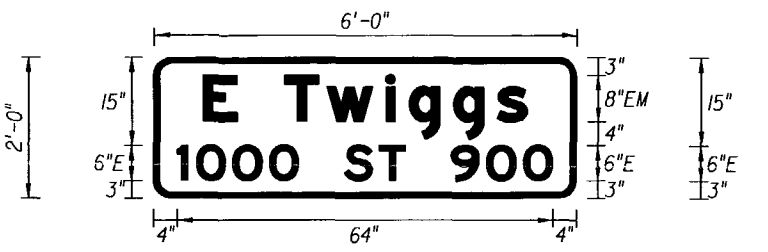
REVISIONS						E.O.R. : <i>BIJAN BEHZADI, P.E.</i> P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC CLASSIFICATION MONITORING SITE PLAN	SHEET NO. T-24
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						S.R. 45	HILLSBOROUGH	255853-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

SIGN NUMBER	A			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	104+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



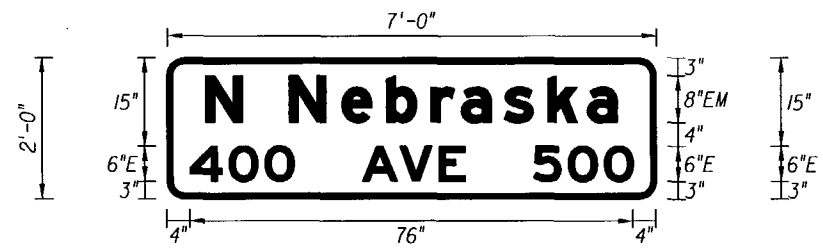
SIGN NUMBER	B			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	104+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



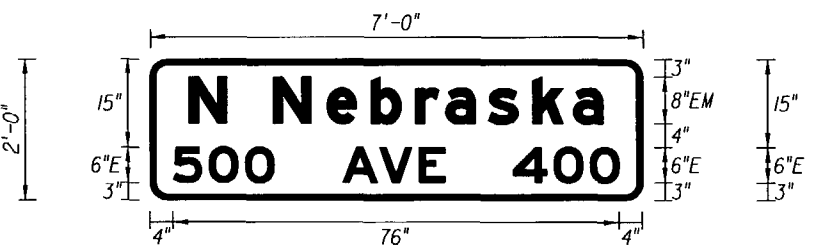
COPY	E	T	w	i	g	g	s	L						
SPACE	8.4	5.9	8	7.3	10.1	3.9	7.6	7.4	5.1	8.4	55.2			
COPY	9	0	0	S	T	1	0	0	0	L				
SPACE	4	6	6.2	5	7.9	8	4.4	7.8	3.3	6.2	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

COPY	E	T	w	i	g	g	s	L						
SPACE	8.4	5.9	8	7.3	10.1	3.9	7.6	7.4	5.1	8.4	55.2			
COPY	1	0	0	S	T	9	0	0	L					
SPACE	4	3.3	6.2	6.2	5	7.9	8	4.4	7.8	6	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

SIGN NUMBER	C			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	104+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



SIGN NUMBER	D			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	104+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



COPY	N	N	e	b	r	a	s	k	a	L				
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6	
COPY	4	0	0	A	V	E	5	0	0	L				
SPACE	4	6.8	6.2	5	11.7	8.4	6.7	4.4	11.7	6	6.2	5	4	7.6
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

COPY	N	N	e	b	r	a	s	k	a	L				
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6	
COPY	5	0	0	A	V	E	4	0	0	L				
SPACE	4	6	6.2	5	11.7	6.4	6.7	4.4	11.7	6.8	6.2	5	4	7.6
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

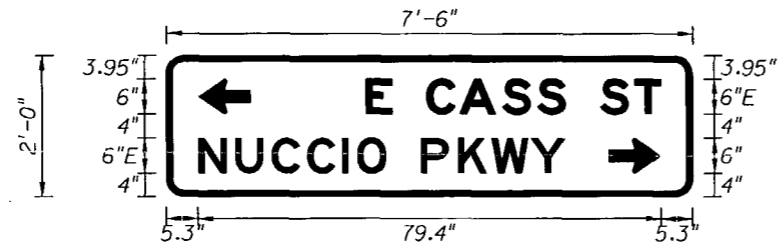
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

SHEET NO.
T-25

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68J5-23.003, F.A.C.

SIGN NUMBER	E
QUANTITY	1
WIDTH	7'-6"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	110+00
SYMBOL(S)	X Y WID HT
ARUP	5.3 14 6 9
ARUP	75.7 4 6 9
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



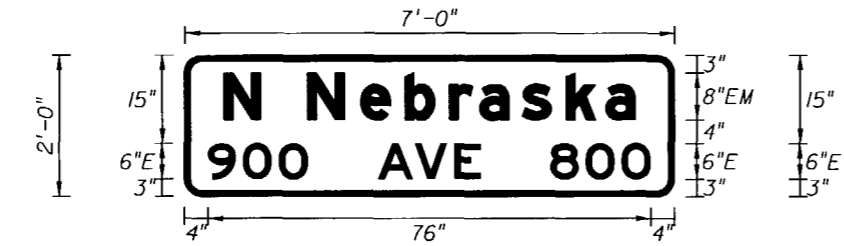
COPY	E		C	A	S	S	S	T		L										
SPACE	34.2	4.4	6	5.6	7.2	6	4.8	6	6	4.4	5.3	50.5								
COPY	N	U	C	C	I	O		P	K	W	Y	L								
SPACE	5.3	6.3	6.3	8	6	2.6	5	6	6.3	5.7	6.7	6	21.7	6.3						
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NUMBER	F			
QUANTITY	1			
WIDTH	7'-6"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	110+00			
SYMBOL(S)	X Y WID HT			
ARUP				
ARUP				
SIGN NUMBER				
CLEARANCE EDGE OF LANE				
COLUMN SIZE				
AVERAGE LENGTH				



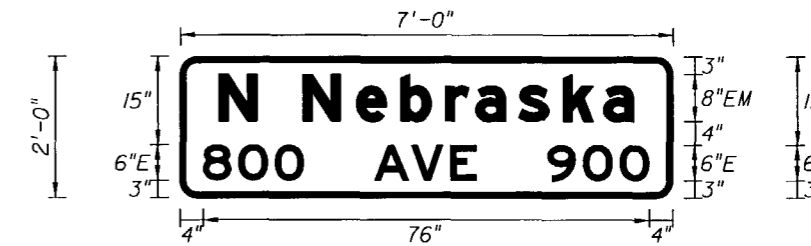
COPY	N	U	C	C	I	O		P	K	W	Y	L								
SPACE	21.7	6.3	6.3	6	6	2.6	5	6	6.3	5.7	6.7	6	53	6.3						
COPY	E		C	A	S	S		S	T		L									
SPACE	6.7	4.4	6	5.6	7.2	6	4.8	6	6	4.4	32.8	50.5								
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NUMBER	G			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	110+00			
SYMBOL(S)	X Y WID HT			
ARUP				
ARUP				
SIGN NUMBER				
CLEARANCE EDGE OF LANE				
COLUMN SIZE				
AVERAGE LENGTH				



COPY	N	N	e	b	r	a	s	k	a		L									
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6							
COPY	9	0	0		A	V	E		8	0	0	L								
SPACE	4	6	6.2	5	12	6.4	6.7	4.4	12	6	6.2	5	4	7.8						
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NUMBER	H			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	110+00			
SYMBOL(S)	X Y WID HT			
ARUP				
ARUP				
SIGN NUMBER				
CLEARANCE EDGE OF LANE				
COLUMN SIZE				
AVERAGE LENGTH				



COPY	N	N	e	b	r	a	s	k	a		L									
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6							
COPY	8	0	0		A	V	E		9	0	0	L								
SPACE	4	6	6.2	5	12	6.4	6.7	4.4	12	6	6.2	5	4	7.8						
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

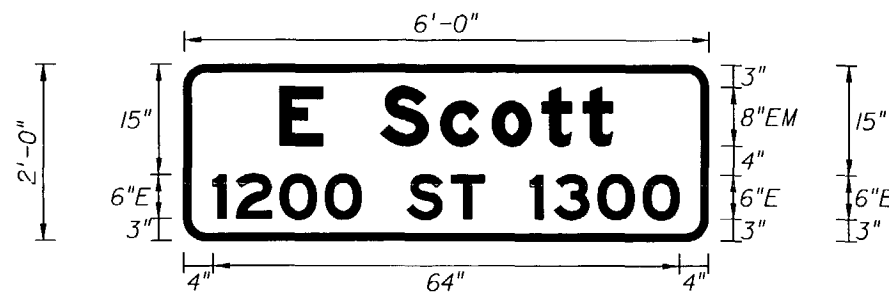
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

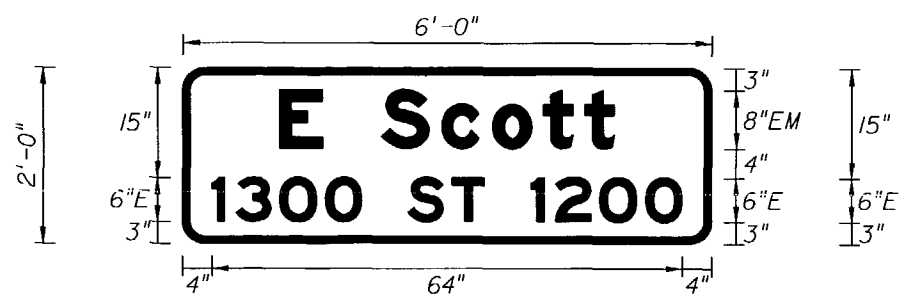
SHEET NO.
T-26

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

SIGN NUMBER	I			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADIUS	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	121+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	
	EDGE OF LANE			



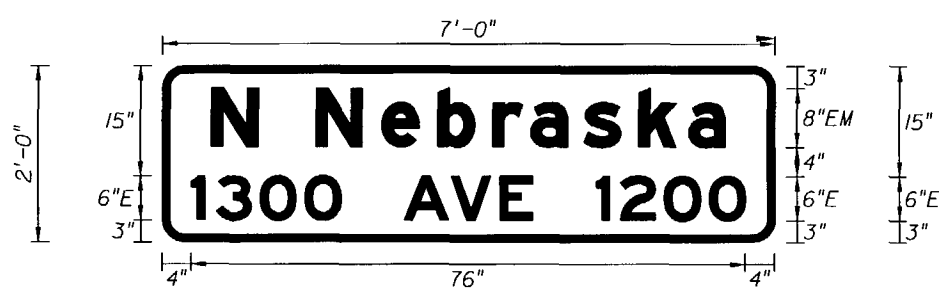
SIGN NUMBER	J			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADIUS	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	121+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	
	EDGE OF LANE			



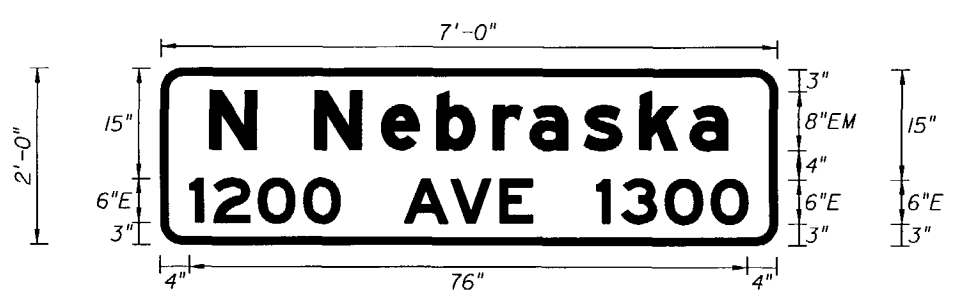
COPY		E	S	c	o	t	t	L											
SPACE	13.2	5.9	8	8.2	6.9	6.8	5.6	4	13.2	45.6									
COPY		1	2	0	0		S	T		1	3	0	0		L				
SPACE	4	3.3	6	6.2	5	6.3	6	4.4	6.3	3.3	6	6.2	5	4	6.4				
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

COPY		E	S	c	o	t	t	L											
SPACE	13.2	5.9	8	8.2	6.9	6.8	5.6	4	13.2	45.6									
COPY		1	3	0	0		S	T		1	2	0	0		L				
SPACE	4	3.3	6	6.2	5	6.3	6	4.4	6.3	3.3	6	6.2	5	4	6.4				
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NUMBER	K			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADIUS	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	121+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	
	EDGE OF LANE			



SIGN NUMBER	L			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADIUS	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	121+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	
	EDGE OF LANE			



COPY		N	N	e	b	r	a	s	k	a	L								
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6						
COPY		1	3	0	0		A	V	E		1	2	0	0		L			
SPACE	4	3.3	6	6.2	5	8.7	6.4	6.7	4.4	8.7	3.3	6	6.2	5	4	7.6			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

COPY		N	N	e	b	r	a	s	k	a	L								
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6						
COPY		1	2	0	0		A	V	E		1	3	0	0		L			
SPACE	4	3.3	6	6.2	5	8.7	6.4	6.7	4.4	8.7	3.3	6	6.2	5	4	7.6			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
 P.E. No.: 43868
 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
 11201 NORTH MCKINLEY DRIVE
 TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION
 ROAD NO. COUNTY FINANCIAL PROJECT ID
 S.R. 45 HILLSBOROUGH 255853-1-52-01

GUIDE SIGN WORK SHEET

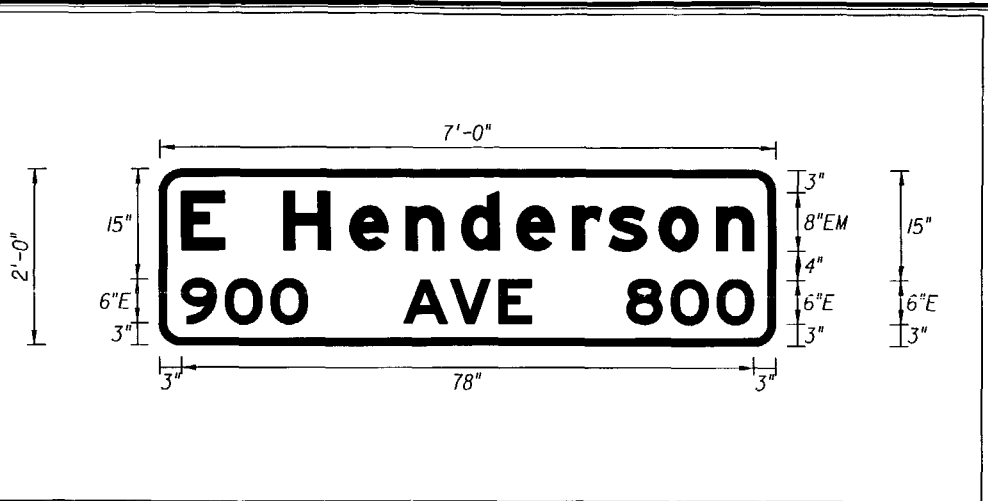
SHEET NO.
 T-27

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6615-23.003, F.A.C.

SIGN NUMBER	M
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	132+75
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE	
EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



SIGN NUMBER	N
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	132+75
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE	
EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



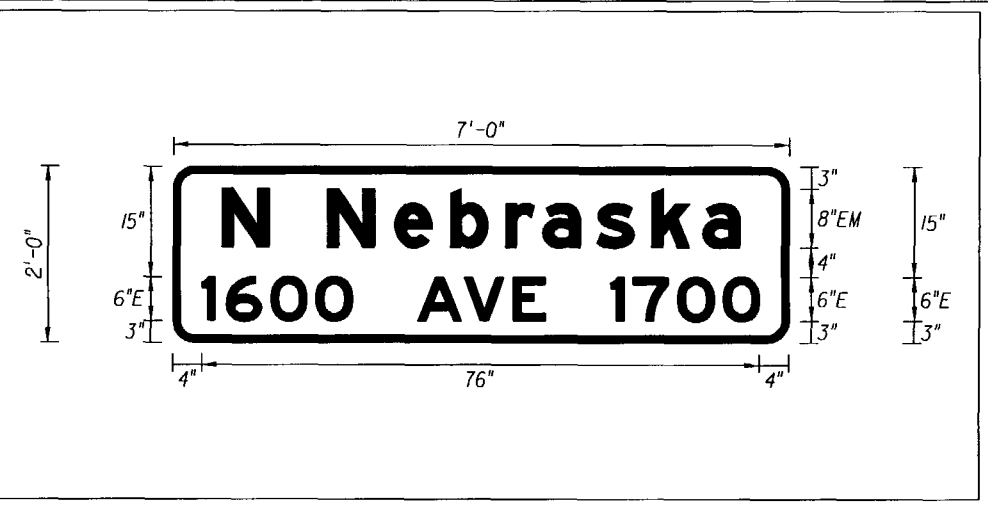
COPY	E	H	e	n	d	e	r	s	o	n	L				
SPACE	3	59	8	91	76	76	76	76	49	68	77	51	3	78	
COPY	8	0	0	A	V	E		9	0	0	L				
SPACE	3	6	62	5	131	64	67	44	13	6	62	5	3	78	
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															

COPY	E	H	e	n	d	e	r	s	o	n	L				
SPACE	3	59	8	91	76	76	76	76	49	68	77	51	3	78	
COPY	9	0	0	A	V	E		8	0	0	L				
SPACE	3	6	62	5	131	64	67	44	13	6	62	5	3	78	
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															

SIGN NUMBER	O
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	132+75
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE	
EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



SIGN NUMBER	P
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	132+75
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE	
EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



COPY	N	N	e	b	r	a	s	k	a	L						
SPACE	6.7	6.4	8	91	76	76	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	1	7	0	0	A	V	E		1	6	0	0	L			
SPACE	4	3	6	62	5	89	6.4	6.7	4.4	8.9	3.3	6	62	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

COPY	N	N	e	b	r	a	s	k	a	L						
SPACE	6.7	6.4	8	91	76	76	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	1	6	0	0	A	V	E		1	7	0	0	L			
SPACE	4	3.3	6	62	5	89	6.4	6.7	4.4	8.9	3	6	62	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

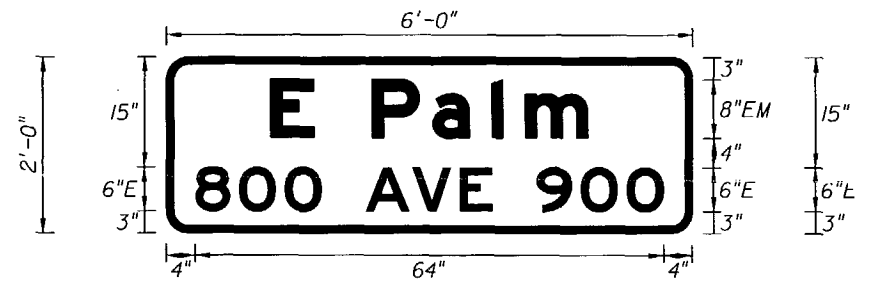
E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET	
SHEET NO.	T-28

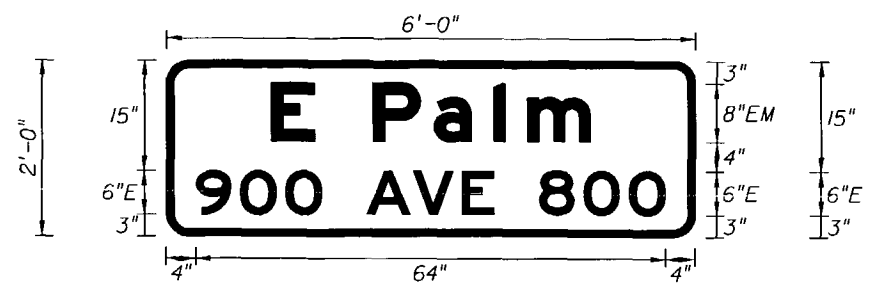
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.003, F.A.C.

SIGN NUMBER	Q			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	142+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



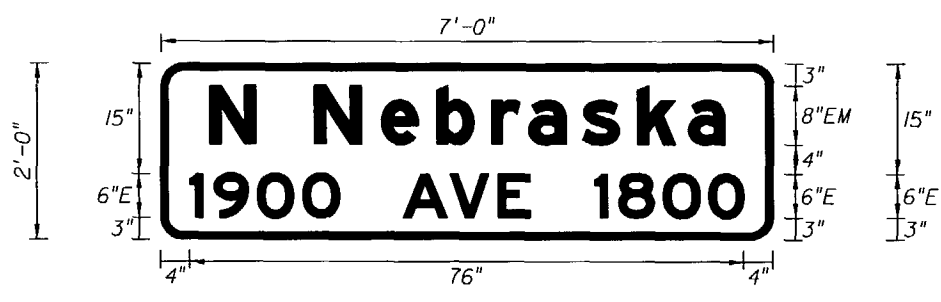
COPY		E	P	a	i	m	L							
SPACE	14.3	5.9	8	8.3	8.2	4.6	8.5	14.3	43.4					
COPY		8	0	0		A	V	E		9	0	0	L	
SPACE	4	6	6.2	5	6	6.4	6.7	4.4	6	6	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

SIGN NUMBER	R			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	142+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



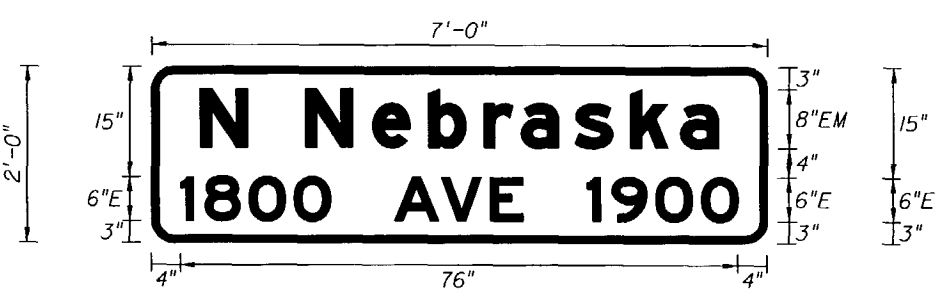
COPY		E	P	a	i	m	L							
SPACE	14.3	5.9	8	8.3	8.2	4.6	8.5	14.3	43.4					
COPY		9	0	0		A	V	E		8	0	0	L	
SPACE	4	6	6.2	5	6.1	6.4	6.7	4.4	6.1	6	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

SIGN NUMBER	S			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	142+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



COPY		N	N	e	b	r	a	s	k	a	L					
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY		1	9	0	0		A	V	E		1	8	0	L		
SPACE	4	3.3	6	6.2	5	8.7	6.4	6.7	4.4	8.7	3.3	6	6.2	5	4	7.6
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

SIGN NUMBER	T			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	142+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



COPY		N	N	e	b	r	a	s	k	a	L					
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY		1	8	0	0		A	V	E		1	9	0	L		
SPACE	4	3.3	6	6.2	5	8.7	6.4	6.7	4.4	8.7	3.3	6	6.2	5	4	7.6
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : **BJAN BEHZADI, P.E.**
 P.E. No.: 43868
 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
 11201 NORTH MCKINLEY DRIVE
 TAMPA, FLORIDA 33612-6456

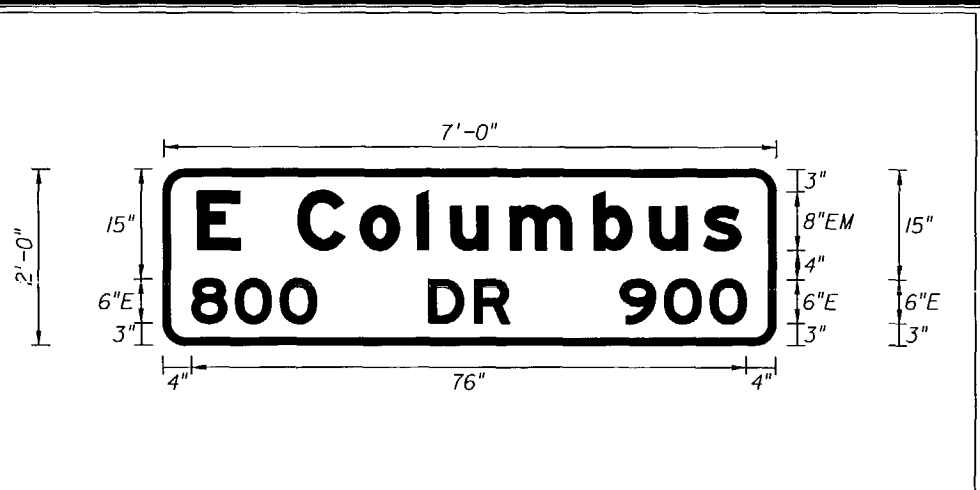
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

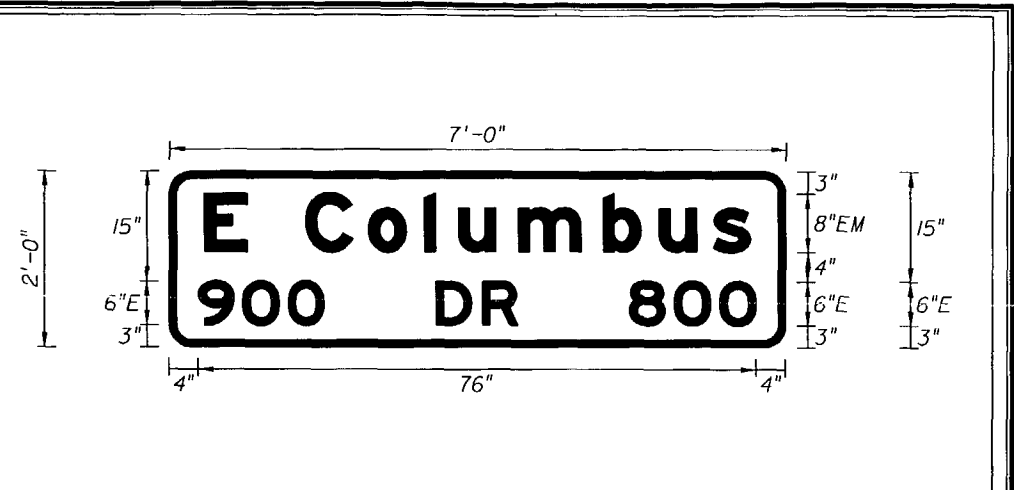
SHEET NO. T-29

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

SIGN NUMBER	U
QUANTITY	1
WIDTH	6'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADIUS	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	159+00
SYMBOL(S)	X Y WID HT



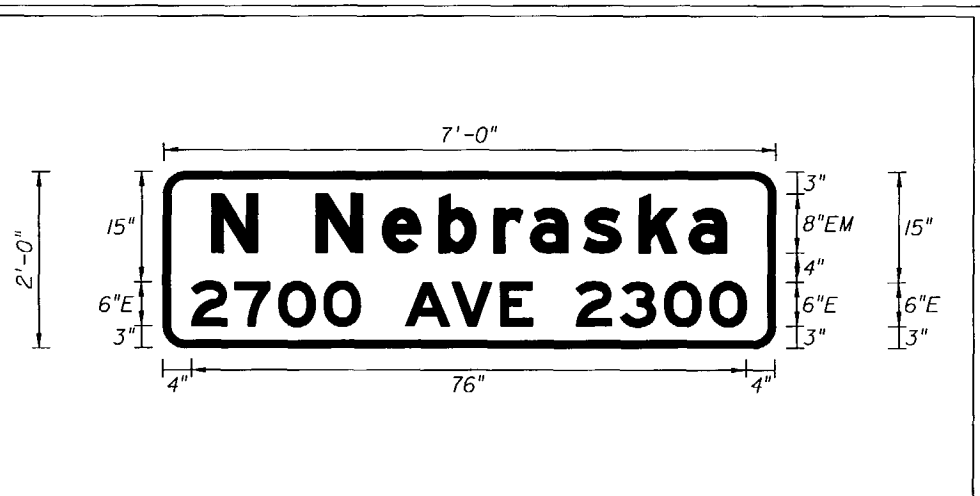
SIGN NUMBER	V
QUANTITY	1
WIDTH	6'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADIUS	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	159+00
SYMBOL(S)	X Y WID HT



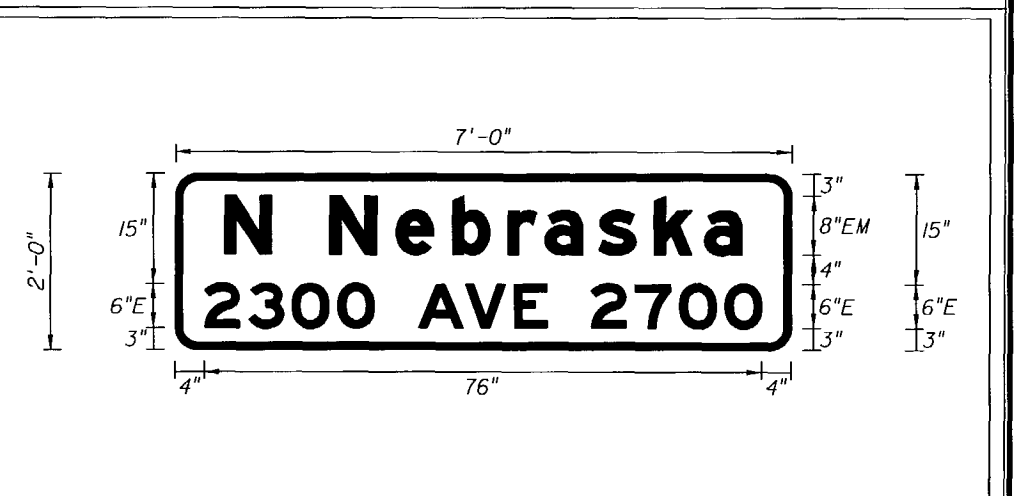
COPY		E		C	o	l	u	m	b	u	s	L	
SPACE	4.8	5.9	8	8.5	7.7	4.6	8.2	11.5	7.6	7.4	5.1	4.8	74.5
COPY		8	o	o	D	R	9	o	o	L			
SPACE	4	6	6.2	5	15.2	6.3	4.8	15.2	6	6.2	5	4	76
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													

COPY		E		C	o	l	u	m	b	u	s	L	
SPACE	4.8	5.9	8	8.5	7.7	4.6	8.2	11.5	7.6	7.4	5.1	4.8	74.4
COPY		9	o	o	D	R	8	o	o	L			
SPACE	4	6	6.2	5	15.2	6.3	4.8	15.2	6	6.2	5	4	76
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													

SIGN NUMBER	W
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADIUS	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	159+00
SYMBOL(S)	X Y WID HT



SIGN NUMBER	X
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADIUS	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	159+00
SYMBOL(S)	X Y WID HT



COPY		N		N	e	b	r	a	s	k	a	L				
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY		2	7	o	o	A	V	E	2	3	o	o	L			
SPACE	4	6	6	6.2	5	6.1	6.4	6.7	4.4	6	6	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

COPY		N		N	e	b	r	a	s	k	a	L				
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY		2	3	o	o	A	V	E	2	7	o	o	L			
SPACE	4	6	6	6.2	5	6.1	6.4	6.7	4.4	6	6	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
 P.E. No.: 43868
 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
 11201 NORTH MCKINLEY DRIVE
 TAMPA, FLORIDA 33612-6456

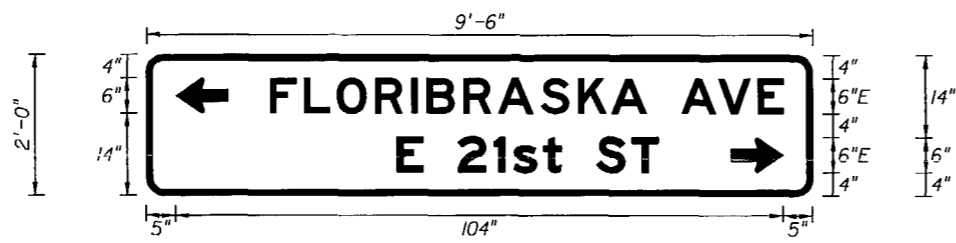
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

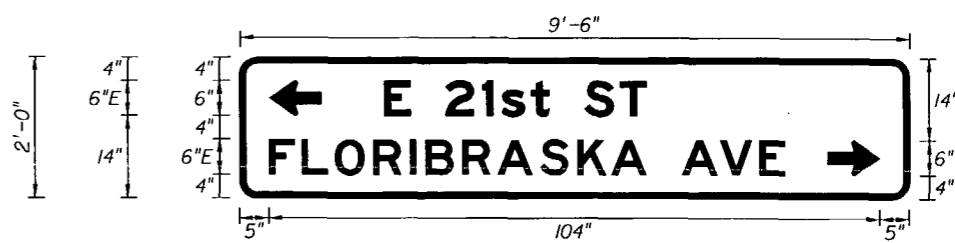
SHEET NO.
 T-30

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

SIGN NUMBER	Y
QUANTITY	1
WIDTH	9'-6"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	173+50
SYMBOL(S)	X Y WID HT
ARUP	5 14 6 9
ARUP	100 4 6 9
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



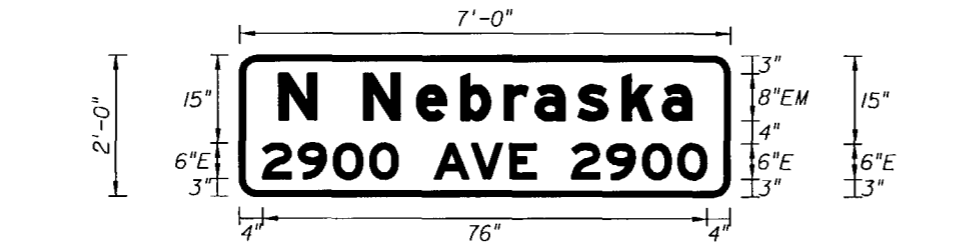
SIGN NUMBER	Z
QUANTITY	1
WIDTH	9'-6"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	173+50
SYMBOL(S)	X Y WID HT
ARUP	90 5 14 6 9
ARUP	270 100 4 6 9
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



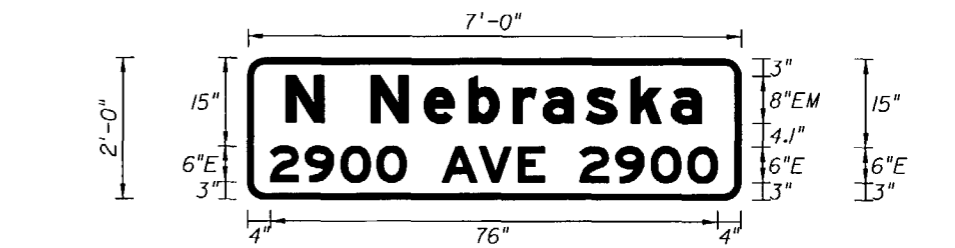
COPY		F	L	O	R	I	B	R	A	S	K	A	A	V	E	L			
SPACE	21.2	5.6	5.6	6.5	6.3	2.6	6.3	6	7.2	6.3	5.7	6	6	6.4	6.7	4.4	5	87.8	
COPY		E	2	1	S	I	S	T	L										
SPACE	42.8	4.4	6	6.3	3.3	5	3	6	6	4.4	26.7	44.5							
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

COPY		E	2	1	S	I	S	T	L										
SPACE	24.8	4.4	6	6.3	3.3	5	3	6	6	4.4	44.7	44.5							
COPY		F	L	O	R	I	B	R	A	S	K	A	A	V	E	L			
SPACE	5	5.6	5.6	6.5	6.3	2.6	6.3	6	7.2	6.3	5.7	6	6	6.4	6.7	4.4	21.2	87.8	
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NUMBER	AI			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	173+50			
SYMBOL(S)	X Y WID HT			
ARUP				
ARUP				
SIGN NUMBER				
CLEARANCE EDGE OF LANE				
COLUMN SIZE				
AVERAGE LENGTH				



SIGN NUMBER	BI			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	173+50			
SYMBOL(S)	X Y WID HT			
ARUP				
ARUP				
SIGN NUMBER				
CLEARANCE EDGE OF LANE				
COLUMN SIZE				
AVERAGE LENGTH				



COPY		N	N	e	b	r	a	s	k	a	L								
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6						
COPY		2	9	0	0	A	V	E	2	9	0	0	L						
SPACE	4	6	6	6.2	5	6.1	6.4	6.7	4.4	6	6	6	6.2	5	4	76			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

COPY		N	N	e	b	r	a	s	k	a	L								
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6						
COPY		2	9	0	0	A	V	E	2	9	0	0	L						
SPACE	4	6	6	6.2	5	6.1	6.4	6.7	4.4	6	6	6	6.2	5	4	76			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

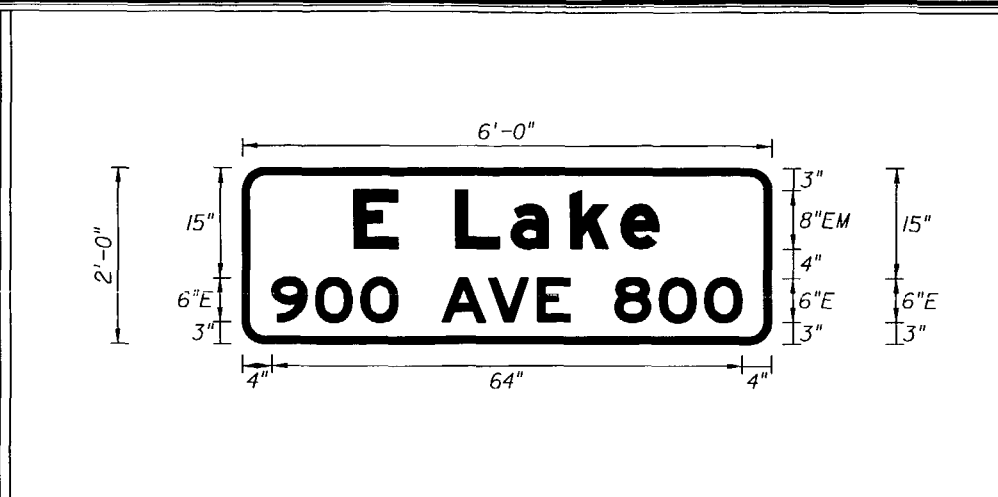
SHEET NO.
T-31

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66B-23.003, F.A.C.

SIGN NUMBER	CI			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	199+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



SIGN NUMBER	DI			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	199+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



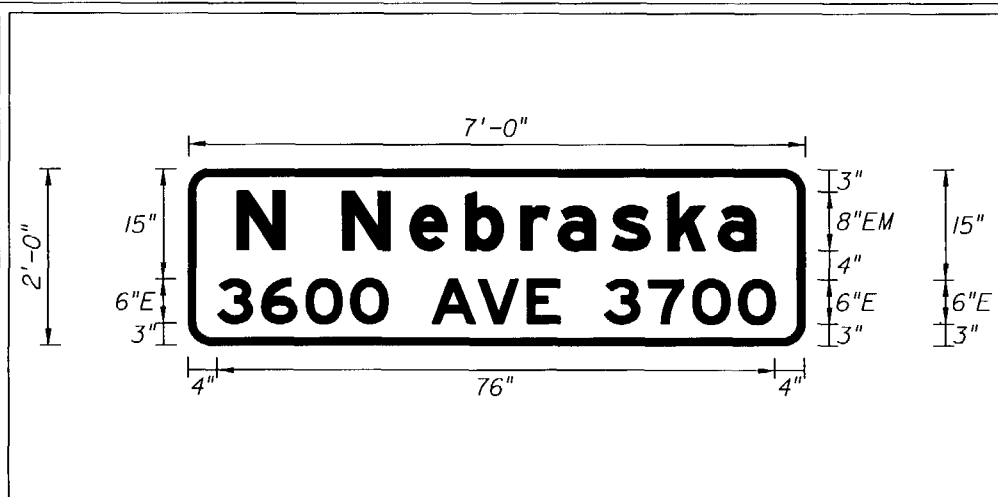
COPY	E	L	a	k	o	L								
SPACE	15.3	5.9	8	7.5	8.2	6.8	5.1	15.3	41.5					
COPY	8	0	0		A	V	E	9	0	0	L			
SPACE	4	6	6.2	5	6	6.4	6.7	4.4	6.1	6	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
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SPACE														
COPY														
SPACE														
COPY														
SPACE														

COPY	E	L	a	k	o	L								
SPACE	15.3	5.9	8	7.5	8.2	6.8	5.1	15.3	41.5					
COPY	9	0	0		A	V	E	8	0	0	L			
SPACE	4	6	6.2	5	6	6.4	6.7	4.4	6.1	6	6.2	5	4	6.4
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

SIGN NUMBER	EI			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	199+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



SIGN NUMBER	FI			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	199+00			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER	CLEARANCE	COLUMN SIZE	AVERAGE	
	EDGE OF LANE		LENGTH	



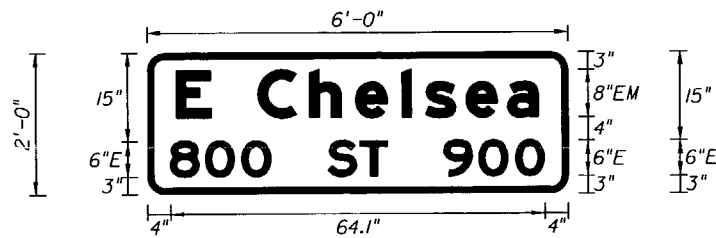
COPY	N	N	e	b	r	a	s	k	a	L						
SPACE	6.7	6.4	8	9.1	7.8	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	3	7	0	0		A	V	E	3	6	0	0	L			
SPACE	4	6	6	6.2	5	6.1	6.4	6.7	4.4	6	6	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

COPY	N	N	e	b	r	a	s	k	a	L						
SPACE	6.7	6.4	8	9.1	7.8	7.8	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	3	6	0	0		A	V	E	3	7	0	0	L			
SPACE	4	6	6	6.2	5	6	6.4	6.7	4.4	6	6	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	E.O.R. : <u>BIJAN BEHZADI, P.E.</u> P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID S.R. 45 HILLSBOROUGH 255853-1-52-01			SHEET NO. T-32
						GUIDE SIGN WORK SHEET						

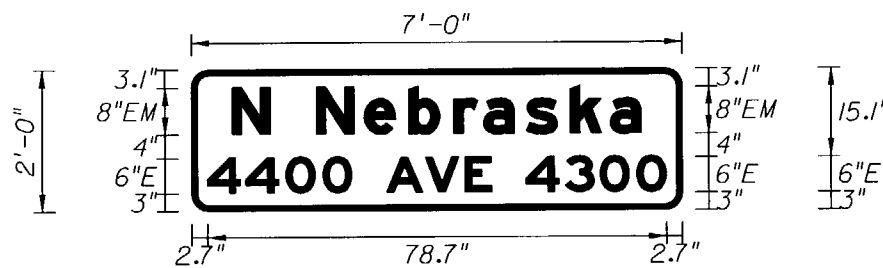
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

SIGN NUMBER	K1
QUANTITY	1
WIDTH	6'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	225+50
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



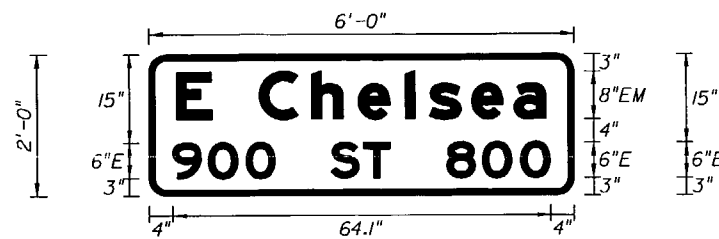
COPY	E	C	h	e	i	s	a	L					
SPACE	5	6.6	7.5	8.8	7.8	7.8	3.9	7.1	7.1	5.4	5	62.1	
COPY	8	0	0		S	T		9	0	0		L	
SPACE	4	5.9	6.3	5.1	9.7	5.6	4.6	9.6	5.9	6.3	5.1	4	64.1
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													

SIGN NUMBER	M1
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	225+50
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



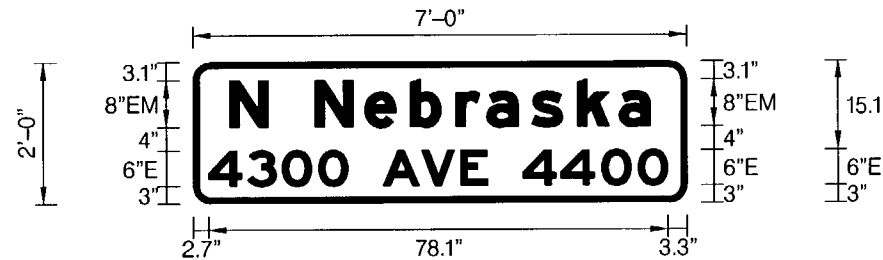
COPY	N	N	a	b	r	a	s	k	a	L						
SPACE	7	6.5	8	8.3	7.5	7.6	5.1	7.4	7.5	6.9	5.3	7	70.1			
COPY	4	4	0	0		A	V	E		4	3	0	0	L		
SPACE	2.7	6.6	6.9	6.4	5.1	5.8	6.6	6.7	4.5	6	6.7	6	6.3	5.1	2.7	78.7
COPY																
SPACE																
COPY																
SPACE																

SIGN NUMBER	L1
QUANTITY	1
WIDTH	6'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	225+50
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



COPY	E	C	h	e	i	s	a	L					
SPACE	4.8	6.6	7.5	8.9	7.9	8	4	7.2	7.2	5.4	4.7	62.6	
COPY	9	0	0		S	T		8	0	0		L	
SPACE	4	6	6.5	5.1	9.3	5.6	4.6	9.4	6.1	6.4	5.1	4	64.1
COPY													
SPACE													
COPY													
SPACE													
COPY													
SPACE													

SIGN NUMBER	N1
QUANTITY	1
WIDTH	7'-0"
HEIGHT	2'-0"
BORDER WIDTH	1"
BORDER RADII	3"
BACKGROUND COLOR	Green
LEGEND & BORDER COLOR	White
STATION(S)	225+50
SYMBOL(S)	X Y WID HT
SIGN NUMBER	
CLEARANCE EDGE OF LANE	
COLUMN SIZE	
AVERAGE LENGTH	



COPY	N	N	a	b	r	a	s	k	a	L						
SPACE	6.4	6.6	7.9	8.5	7.8	7.8	5.2	7.6	7.8	7	5.3	6.3	7.4			
COPY	4	3	0	0		A	V	E		4	4	0	0	L		
SPACE	2.7	6.7	5.9	6.2	5.1	5.9	6.6	6.5	4.5	6	6.5	6.8	6.2	5.1	3.3	78.1
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

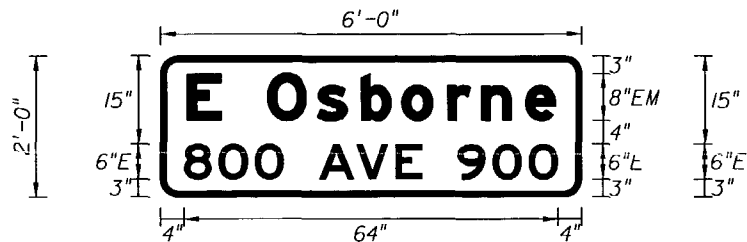
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

GUIDE SIGN WORK SHEET

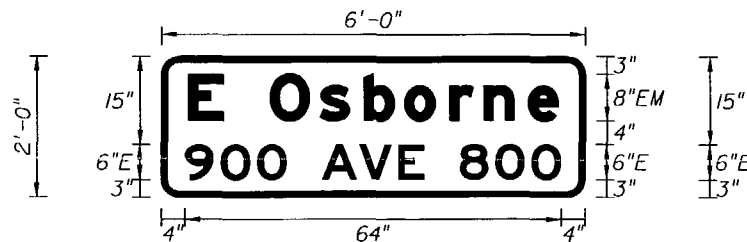
SHEET NO.
T-34

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G5-23.003, F.A.C.

SIGN NUMBER	01			
QUANTITY	1			
WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	225+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER				
CLEARANCE	COLUMN SIZE	AVERAGE	LENGTH	
EDGE OF LANE		LENGTH		



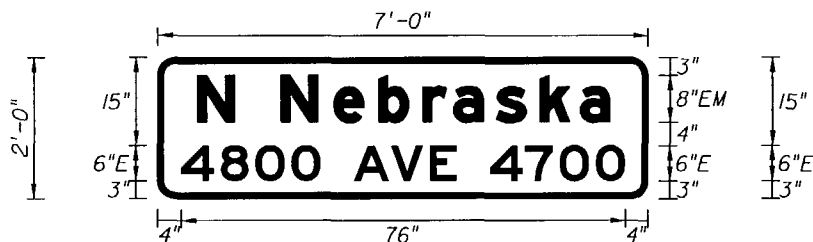
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WIDTH	6'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	225+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER				
CLEARANCE	COLUMN SIZE	AVERAGE	LENGTH	
EDGE OF LANE		LENGTH		



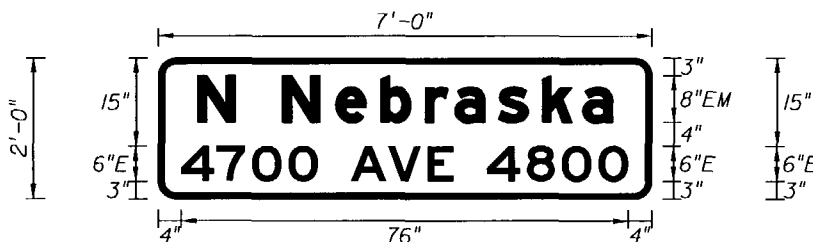
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COPY	A	V	E	9	0	0	L							
SPACE	4	6	6.2	5	6	6.4	6.7	4.4	6	6	6.2	5	4	64
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

COPY	E	O	S	B	O	R	N	E	L					
SPACE	4.5	5.9	8	8.5	7.5	6.9	7.7	5.8	7.6	5.1	4.5	62.9		
COPY	A	V	E	8	0	0	L							
SPACE	4	6	6.2	5	6	6.4	6.7	4.4	6.1	6	6.2	5	4	64
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														
COPY														
SPACE														

SIGN NUMBER	Q1			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	225+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER				
CLEARANCE	COLUMN SIZE	AVERAGE	LENGTH	
EDGE OF LANE		LENGTH		



SIGN NUMBER	R1			
QUANTITY	1			
WIDTH	7'-0"			
HEIGHT	2'-0"			
BORDER WIDTH	1"			
BORDER RADII	3"			
BACKGROUND COLOR	Green			
LEGEND & BORDER COLOR	White			
STATION(S)	225+50			
SYMBOL(S)	X	Y	WID	HT
SIGN NUMBER				
CLEARANCE	COLUMN SIZE	AVERAGE	LENGTH	
EDGE OF LANE		LENGTH		



COPY	N	N	E	B	R	A	S	K	A	L						
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	A	V	E	4	7	0	L									
SPACE	4	6.8	6	6.2	5	5.7	6.4	6.7	4.4	5.7	5.9	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

COPY	N	N	E	B	R	A	S	K	A	L						
SPACE	6.7	6.4	8	9.1	7.6	7.6	5.1	7.3	7.5	6.8	5.1	6.7	70.6			
COPY	A	V	E	4	8	0	L									
SPACE	4	5.9	6	6.2	5	5.7	6.4	6.7	4.4	5.7	6.8	6	6.2	5	4	76
COPY																
SPACE																
COPY																
SPACE																
COPY																
SPACE																

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : **BIJAN BEHZADI, P.E.**
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

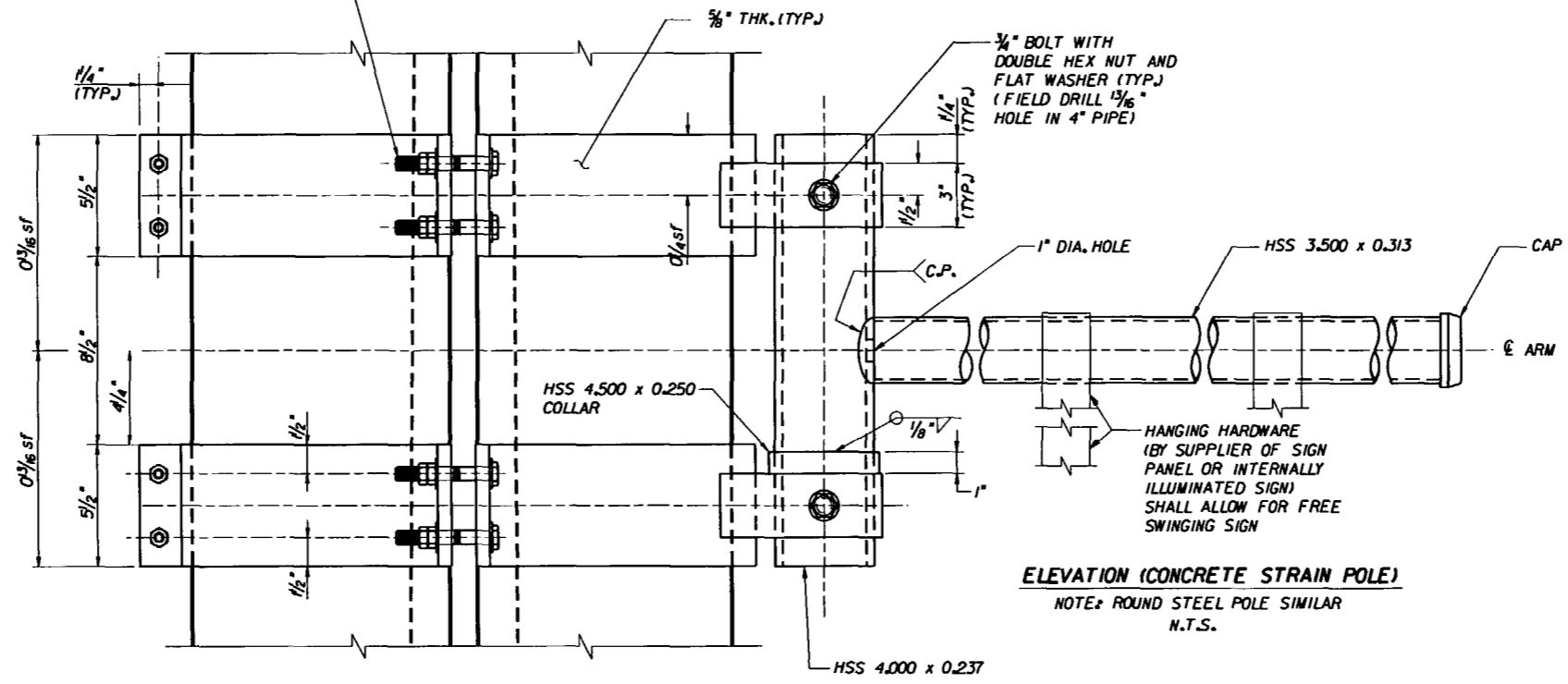
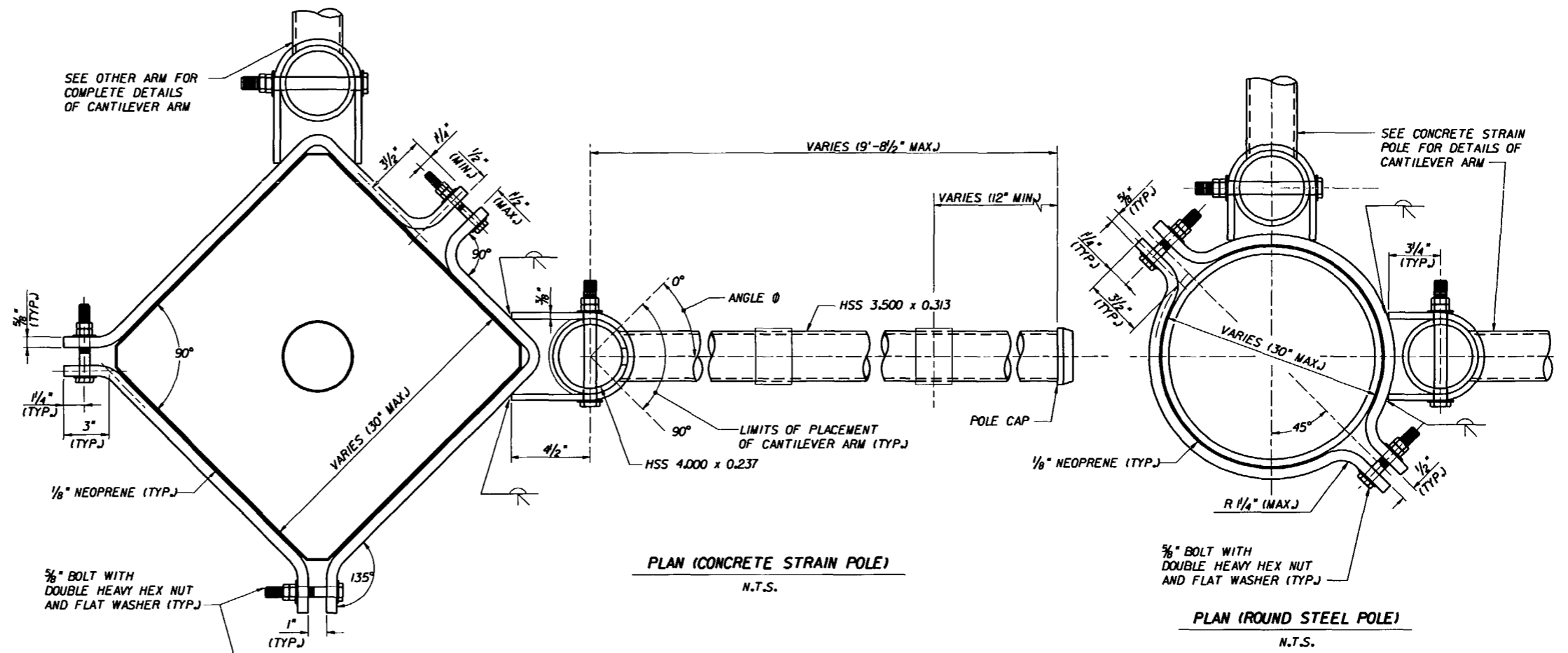
STATE OF FLORIDA		
DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

SHEET NO.	
GUIDE SIGN WORK SHEET	
T-35	

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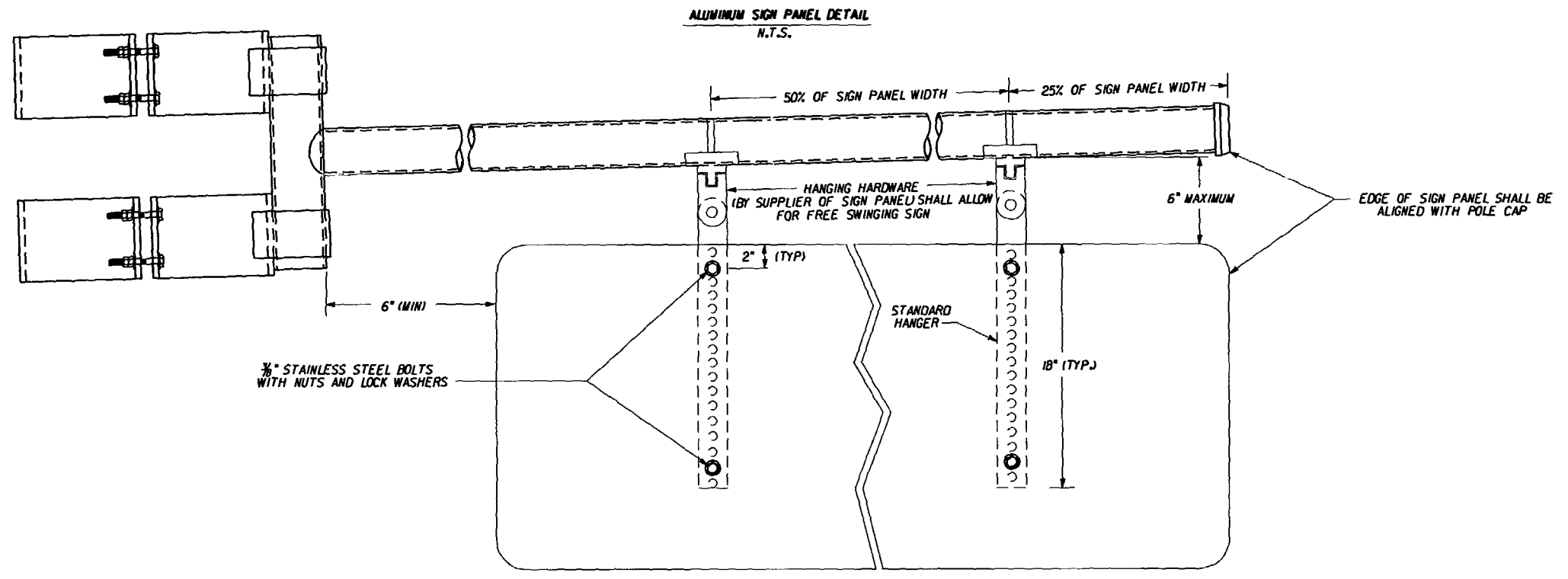
NOTES:

1. CONTRACTOR SHALL VERIFY THE POLE TYPE AND THE DIMENSIONS OF THE POLE AT THE POINT OF INSTALLATION OF THE SIGN BRACKET AND ANGLE BEFORE MANUFACTURING SIGN BRACKET. THE CONTRACTOR SHALL VERIFY ANGLE, θ , PRIOR TO FIELDING DRILLING $\frac{13}{16}$ " HOLE IN 4" PIPE.
2. DESIGN WIND SPEED = 100 MPH. WORKING LOADS FROM THE INTERNALLY ILLUMINATED SIGN AND CANTILEVER ARM AT THE CENTER OF THE VERTICAL PIPE ARE AS FOLLOWS:
 HORIZONTAL MOMENT = 4850 FT LBS
 VERTICAL MOMENT = 1240 FT LBS
 HORIZONTAL SHEAR = 920 LBS
 VERTICAL SHEAR = 240 LBS
3. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE SIGN BRACKET ARM IN PLACE OF THE DESIGN ON THIS SHEET AT NO ADDITIONAL COST TO THE DEPARTMENT. THE CONTRACTOR'S ALTERNATIVE SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT'S PLANS PREPARATION MANUAL AND THE 1994 EDITION OF AASHTO'S STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS WITH APPLICABLE INTERIMS. THE DESIGN AND THE SHOP DRAWINGS SHALL BE PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
4. ALL STRUCTURAL STEEL EXCEPT FOR STRUCTURAL TUBING SHALL CONFORM TO ASTM A572 GR 50. STRUCTURAL TUBING SHALL CONFORM TO ASTM DESIGNATION A500 GRADE B.
5. ALL BOLTS SHALL BE HIGH STRENGTH A325 BOLTS AND SHALL RECEIVE ELECTRODEPOSITED COATING IN ACCORDANCE WITH ASTM B633.
6. COMPLETE ASSEMBLY SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION A123.
7. WELD DETAILS AND THE OPERATION OF WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE. HOLLOW STRUCTURAL SECTION CONNECTIONS SHALL ALSO MEET THE REQUIREMENTS OF AWS D1.1 CHAPTER 10. ELECTRODES SHALL HAVE A 70 KSI MINIMUM TENSILE STRENGTH.
8. NO FIELD WELDING SHALL BE PERMITTED.
9. SIGN TO BE LEVEL AFTER INSTALLATION.
10. ALL MATERIALS AND LABOR REQUIRED TO FURNISH AND INSTALL THE SIGN BRACKET SHALL BE INCLUDED IN PAY ITEM 699-1-1, 700-48-18, AND 700-48-19.
11. WHEN NON-INTERNALLY ILLUMINATED SIGN PANELS ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL MEET ALL REQUIREMENTS AS FOUND IN SECTION 700 OF THE DEPARTMENT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SUPPLEMENTS THERETO.

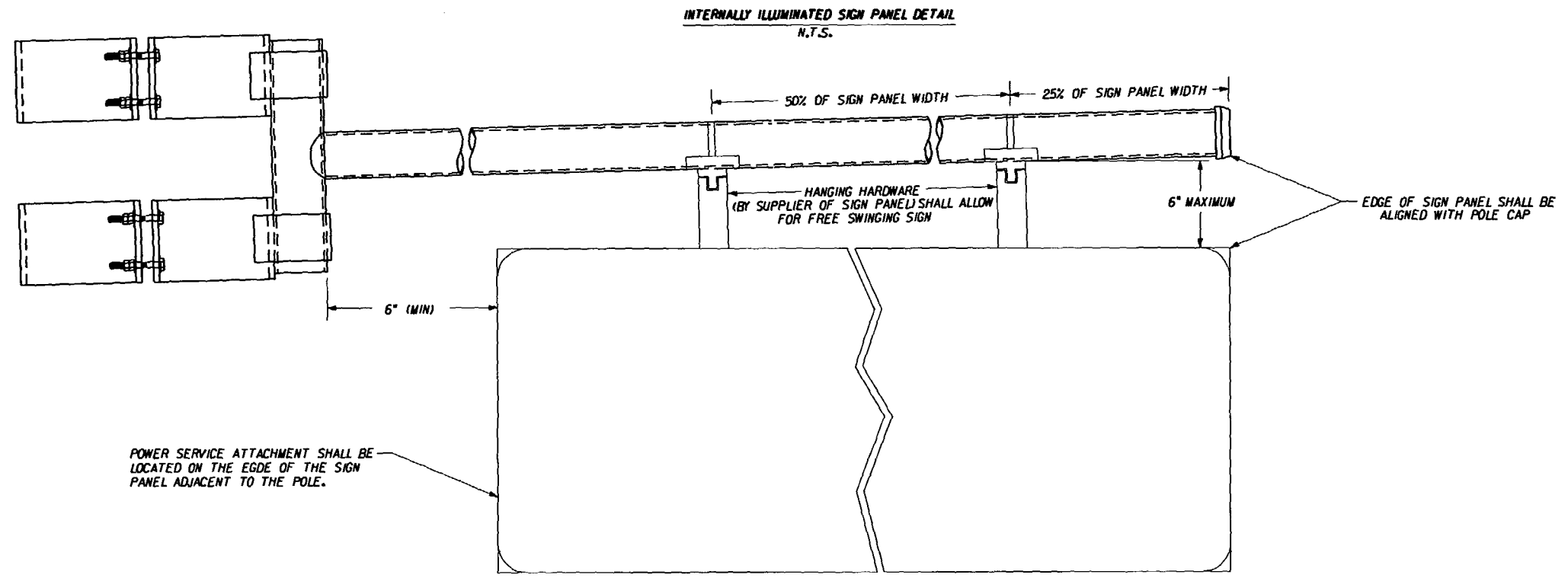


REVISIONS						E.O.R. : <u>BIJAN BEHZADI, P.E.</u> P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-36
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						S.R. 45	HILLSBOROUGH	255853-1-52-01		

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- NOTES:**
- 1) CONCRETE STRAIN POLE ELEVATIONS SHOWN.
 - 2) SIGN PANELS SHALL BE LEVEL AFTER INSTALLATION.
 - 3) INTERNALLY ILLUMINATED PANELS SHALL BE TWO SIDED.
 - 4) ALUMINUM SIGNS SHALL BE TWO PANELS MOUNTED BACK TO BACK WITH HANGERS SANDWICHED BETWEEN.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

E.O.R. : BIJAN BEHZADI, P.E.
P.E. No.: 43868
ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
11201 NORTH MCKINLEY DRIVE
TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

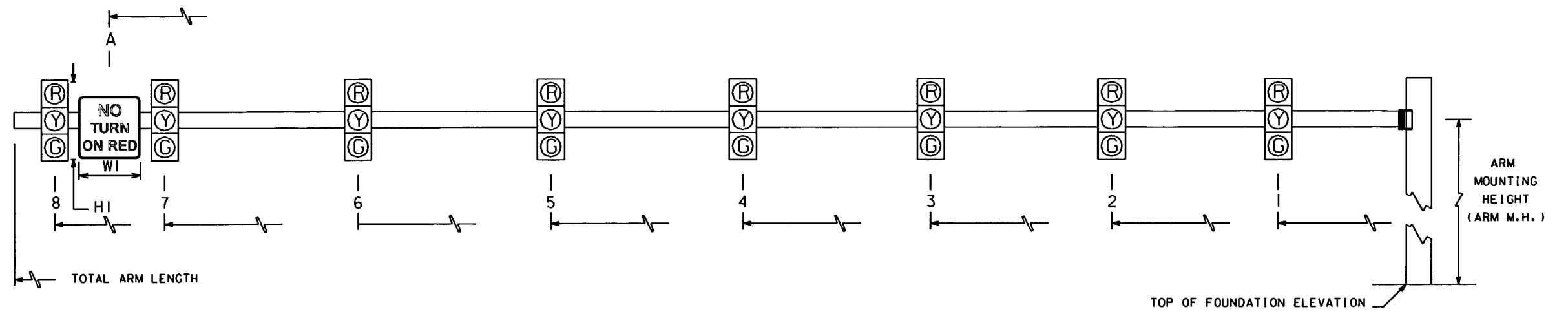
OVERHEAD STREET NAME SIGN BRACKET ARM DETAIL SHEET	SHEET NO. T-37
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SPECIAL INSTRUCTIONS			
T-38 NO.	PED. BUTTON	PED. SIGNALS	HANDHOLE LOCATION

ARM # 2 - DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ARM # 1.

ARM # 1 - SINGLE ARM OR LONGER ARM FOR DOUBLE ARM POLE



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY.

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	ROWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	SIGNAL DATA																TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	SIGN DATA							PAINT COLOR										
									DISTANCE FROM POLE																			DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																	
									1	*	2	*	3	*	4	*	5	*	6	*	7	*	8	*				A	HI	WI	B	H2	W2	C		H3	W3								
1	T-7	121+55.7	24.48	1	24.53	V	Y	N	20.74'	3	31.58'	3	42.47'	3	43.89'	3	45.22'	3	56.99'	3	61.23'	3	76.80'	3	78.00'	20.00'	N/A	50.01'	30"	30"						-									
2	T-13	199+45.0	48.20	1	48.21	V	Y	Y	19.29'	3	28.38'	3	32.84'	3	37.94'	3	42.26'	3	49.42'	3	52.35'	3	63.45'	3	70.00'	20.00'	N/A	56.12'	30"	30"						-									
3	T-16	238+59.8	51.61	1	51.38	V	Y	N	25.33'	3	26.70'	3	40.60'	3	45.58'	3	48.68'	3	57.93'	3	63.05'	3	73.80'	3	78.00'	20.00'	N/A									-									

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REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION					E.O.R. : BIJAN BEHZADI, P.E. P.E. No.: 43868 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE 11201 NORTH MCKINLEY DRIVE TAMPA, FLORIDA 33612-6456			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID S.R. 45 HILLSBOROUGH 255853-1-52-01			MAST ARM SIGNAL POLE SCHEDULE		SHEET NO. T-38
---	--	--	--	--	---	--	--	---	--	--	--	--	-------------------

TABLE OF SIGNAL STRUCTURE VARIABLES

NUMBER OF LOCATIONS	STRUCTURE NUMBER	FIRST ARM				FIRST ARM EXTENSION				SECOND ARM				SECOND ARM EXTENSION				POLE						GROUT PAD Y/N	
		FA(ft)	FB(In)	FC(In)	FD(In)	FE(ft)	FF(In)	FG(In)	FH(In)	SA(ft)	SB(In)	SC(In)	SD(In)	SE(ft)	SF(In)	SG(In)	SH(In)	UA(ft)	UB(ft)	UC(In)	UD(In)	UE(In)	UF(deg)		UG(ft)
1	1	40	11.4	17	0.179	40	16.4	22	0.313	0	0	0	0	0	0	0	0	22	20	23.9	27	0.313	0	0	Y
1	2	38.9	10.6	16	0.179	33.1	15.4	20	0.313	0	0	0	0	0	0	0	0	22	20	21.9	25	0.313	0	0	Y
1	3	40	11.4	17	0.179	40	16.4	22	0.313	0	0	0	0	0	0	0	0	22	20	23.9	27	0.313	0	0	Y

TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

STRUCTURE NUMBER	FIRST ARM CONNECTION (In) First Arm Camber Angle = 2 Degrees													SECOND ARM CONNECTION (In) Second Arm Camber Angle = 2 Degrees													
	#Bolts	HT	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	#Bolts	HT	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	
1	6	30	38	3	0.75	0.25	0.563	21.5	1.5	0.563	2.13	12	0.563	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	6	30	34	3	0.75	0.25	0.438	16	1.25	0.5	1.63	12.5	0.438	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	6	30	38	3	0.75	0.25	0.5	21.5	1.5	0.5	2.13	12	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

STRUCTURE NUMBER	POLE BASE CONNECTION (In)							SHAFT AND REINF.				LUMINAIRE AND LUMINAIRE CONNECTION												
	#Bolts	BA	BB	BC	BD	BE	BF	DA(ft)	DB(ft)	RA	RB	LA(ft)	LB(ft)	LC(In)	LD(In)	LE	LF(ft)	LG(In)	LH(In)	LJ(In)	LK(In)	LL(deg)		
1	6	43	1.5	2	0.313	0.25	40	20	4.5	9	23	0	0	0	0	0	0	0	0	0	0	0	0	
2	6	41	1.5	2	0.313	0.25	40	19	4.5	9	23	0	0	0	0	0	0	0	0	0	0	0	0	
3	6	43	1.5	2	0.313	0.25	40	22	4.5	9	23	0	0	0	0	0	0	0	0	0	0	0	0	

NOTES:

1. Work this Drawing with Design Standards Index Nos. 17745 as necessary.
2. Design Wind Speed = 110 mph
3. Contractor shall coordinate anchor bolt requirements with fabricator.
4. Contractor shall identify Structure Numbers and submit detailed shop drawings.

FOUNDATION NOTES:

1. Design based on Borings taken Oct./Nov. 2003 sealed by Keith Bennett, P.E. (Williams Earth Sciences, Inc.)
2. Assumptions and Values used in design:
 - Soil Type: Sands
 - Soil Layer Thickness = Varies
 - Soil Friction Angle = 30 degrees for Structures 1 & 2, 28 degrees for Structure 3
 - Soil Weight = 46.0 pcf for Structure 1, 45.6 pcf for Structure 2, 42.6 pcf for Structure 3
 - Design Water Table is 0 ft. below surface

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

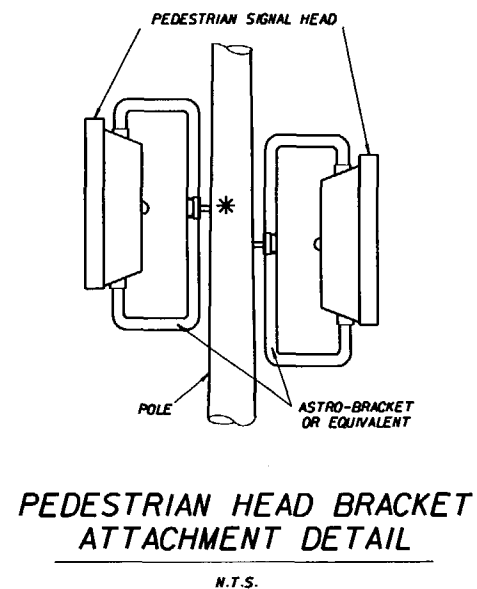
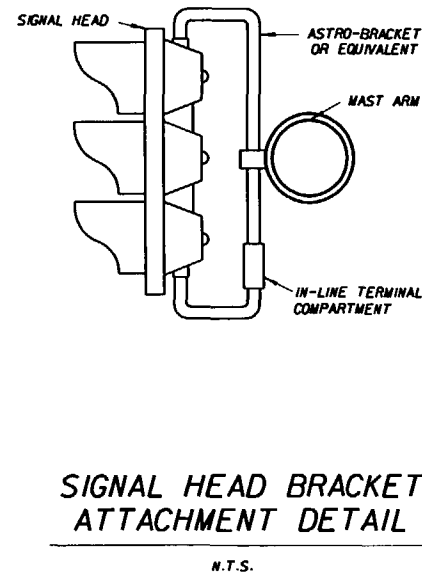
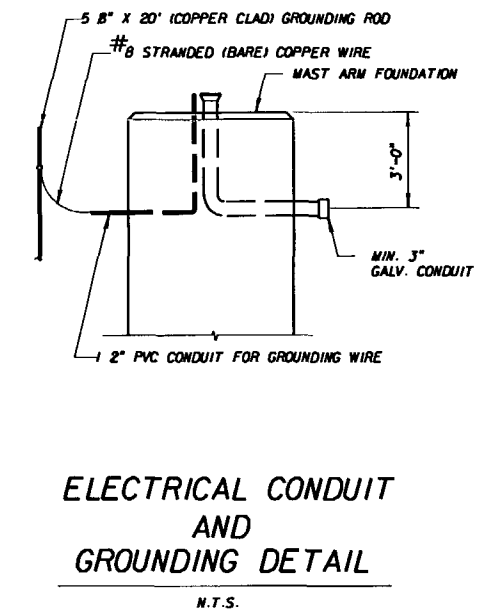
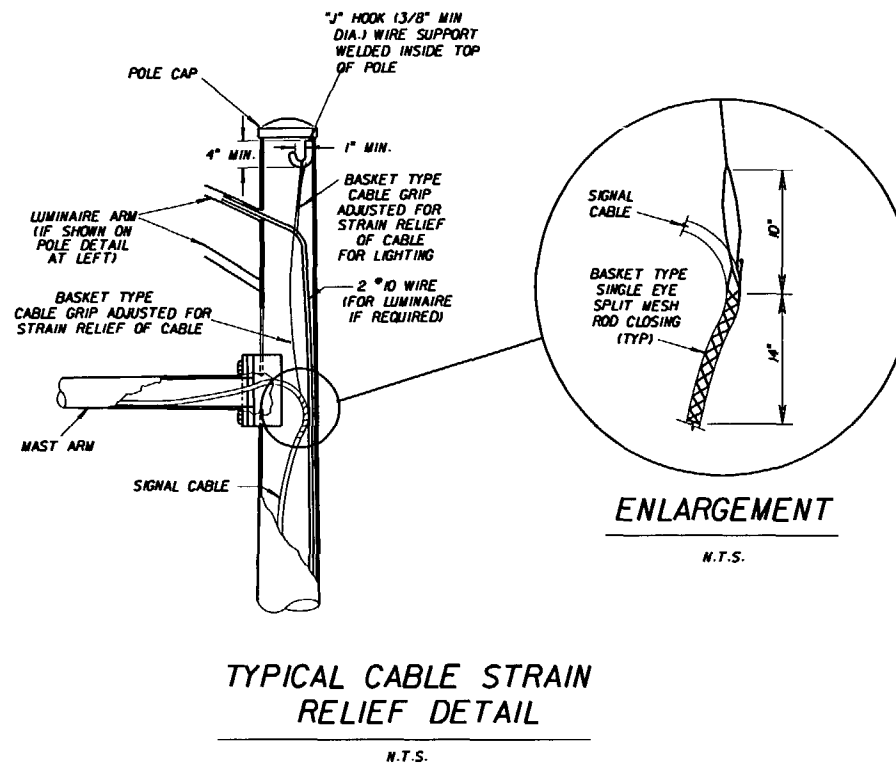
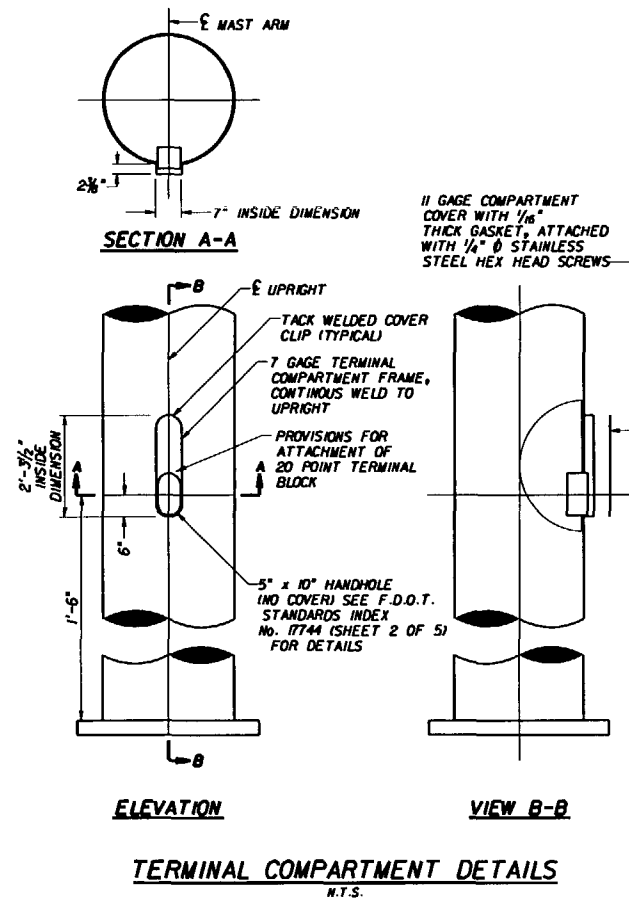
NAME	DATE
DRAWN BY: RMA	02-05
CHECKED BY: DFS	02-05
DESIGNED BY: RMA	02-05
CHECKED BY: DFS	02-05
APPROVED BY: H. SUNNA	

ENGINEER OF RECORD:
 DONALD F. SPENCER
 P.E. NO. 35807
AYRES ASSOCIATES
 8875 HIDDEN RIVER PARKWAY
 SUITE 200
 TAMPA, FLORIDA 33637
 PHONE (813) 978-8688
 FAX (813) 978-9369

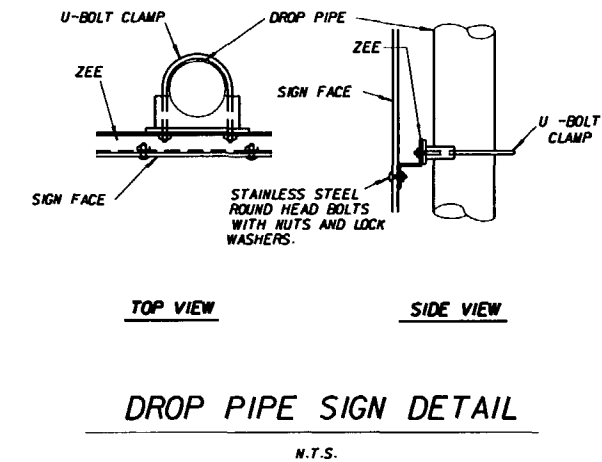
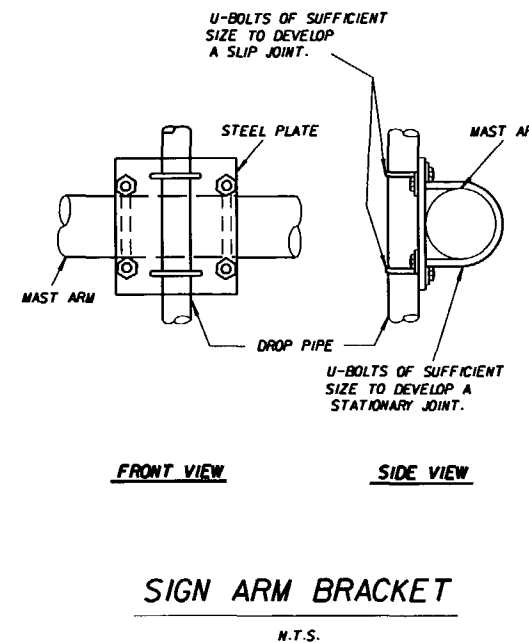
FLORIDA DEPARTMENT OF TRANSPORTATION
 ROAD NO. SR 45
 COUNTY HILLSBOROUGH
 FINANCIAL PROJECT ID 255853-1-52-01

SHEET TITLE: TABLES OF VARIABLES FOR SPECIAL MAST ARM ASSEMBLIES
 PROJECT NAME: SR 45 FROM KENNEDY BLVD. TO HILLSBOROUGH AVE.
 SHEET NO. T-39

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



* ENTRY HOLES TO THE UPRIGHT PIPE FOR TWO-WAY PEDESTRIAN SIGNAL HEADS SHALL HAVE A 6" MIN. VERTICAL OFFSET, SHOWN AT 180° FOR CLARITY.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

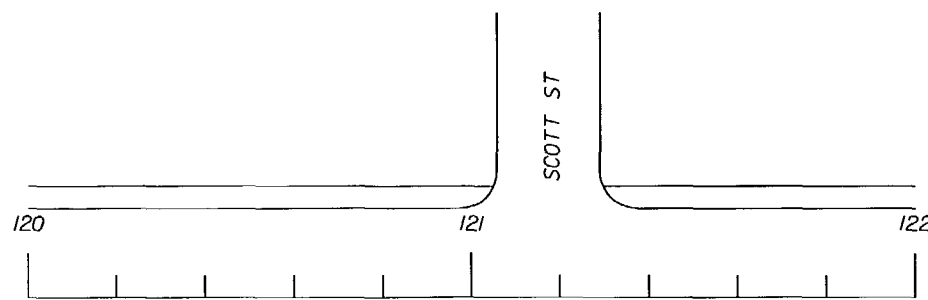
E.O.R. : BIJAN BEHZADI, P.E.
 P.E. No.: 43868
 ADDRESS: F.D.O.T. DISTRICT 7 OFFICE
 11201 NORTH MCKINLEY DRIVE
 TAMPA, FLORIDA 33612-6456

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
S.R. 45	HILLSBOROUGH	255853-1-52-01

**SIGNAL STRUCTURE
DETAIL SHEET**

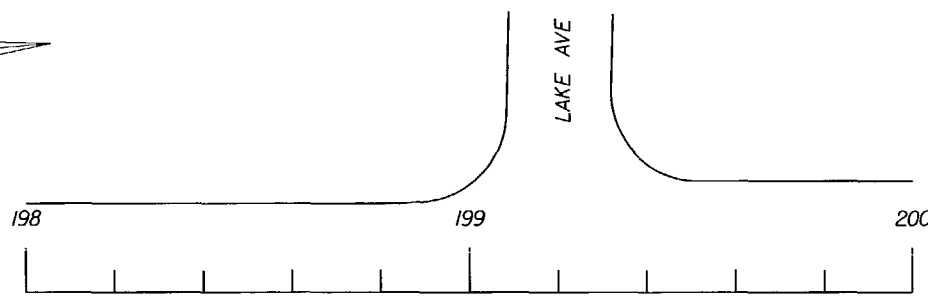
SHEET NO.
T-40

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G05-23.003, F.A.C.



SR 45 (NEBRASKA AVE)

BORING LOCATION PLAN



SR 45 (NEBRASKA AVE)

BORING LOCATION PLAN

LEGEND

- = SP, Sands
- = SP-SC, Slightly clayey sands
- = SP-SM, Slightly silty sands
- = SC, Clayey sands
- = LS, Limestone Formation

GENERAL NOTES

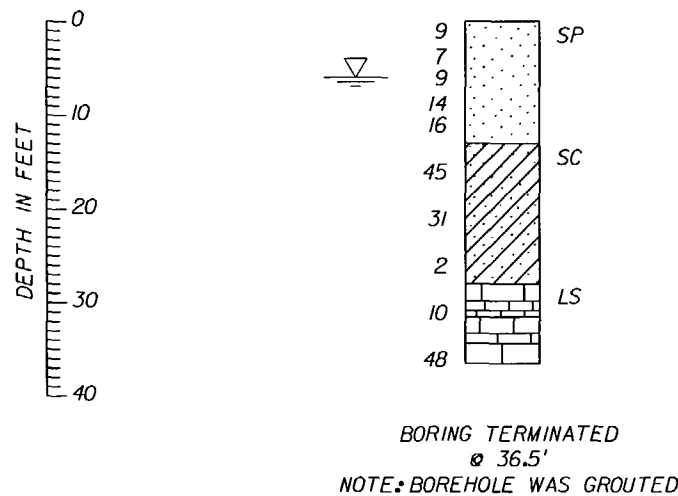
DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 7/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES. THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING. REFER TO GEOTECHNICAL REPORT BY WILLIAMS EARTH SCIENCES FOR DETAILED BORING INFORMATION. CREW CHIEF: BILLERA DRILL RIG TYPE: FAILING 1500 HAMMER TYPE: MANUAL

RECOMMENDED SOIL PARAMETERS FOR DESIGN										
BORING NUMBER	SOIL LAYER DEPTHS (feet)		SOIL TYPE NUMBER <i>soil type 1 thru 8</i>	SPT N-VALUE	SATURATED UNIT WEIGHT <i>pcf</i>	EFFECTIVE UNIT WEIGHT <i>pcf</i>	INTERNAL ANGLE OF FRICTION ϕ <i>degrees</i>	SHEAR STRENGTH OF LIMESTONE <i>tsf</i>	K _a <i>active earth pressure coef.</i>	K _p <i>passive earth pressure coef.</i>
	From	to								
MA-1	0.0	13.0	1	11	110	48	32	-	0.31	3.25
	13.0	28.0	3	26	115	53	36	-	0.26	3.85
	28.0	36.5	7	28	120	58	-	3.0	-	-
MA-2	0.0	17.0	1	15	110	48	32	-	0.31	3.25
	17.0	31.5	1	75	118	56	36	-	0.22	4.60

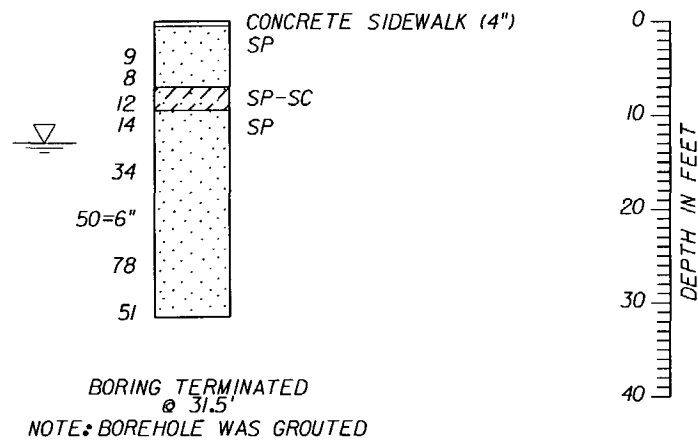
= Water Table

NM = Natural Moisture Content
 -200 = % Passing #200 Sieve
 LL = Liquid Limit
 PI = Plasticity Index
 = Lab Results

BORING NO. MA-1
 STA. 121+54
 OFFSET 26.8' LT
 DATE 10/8/2003



BORING NO. MA-2
 STA. 199+52
 OFFSET 31.8' RT
 DATE 10/8/2003



GRANULAR MATERIALS-

Relative Density	Safety Hammer	Automatic Hammer
	SPT N-Value Blow/Foot	SPT N-Value Blow/Foot
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 7
Medium or Compact	10 - 30	7 - 21
Dense	30 - 50	21 - 35
Very Dense	Greater than 50	Greater than 35

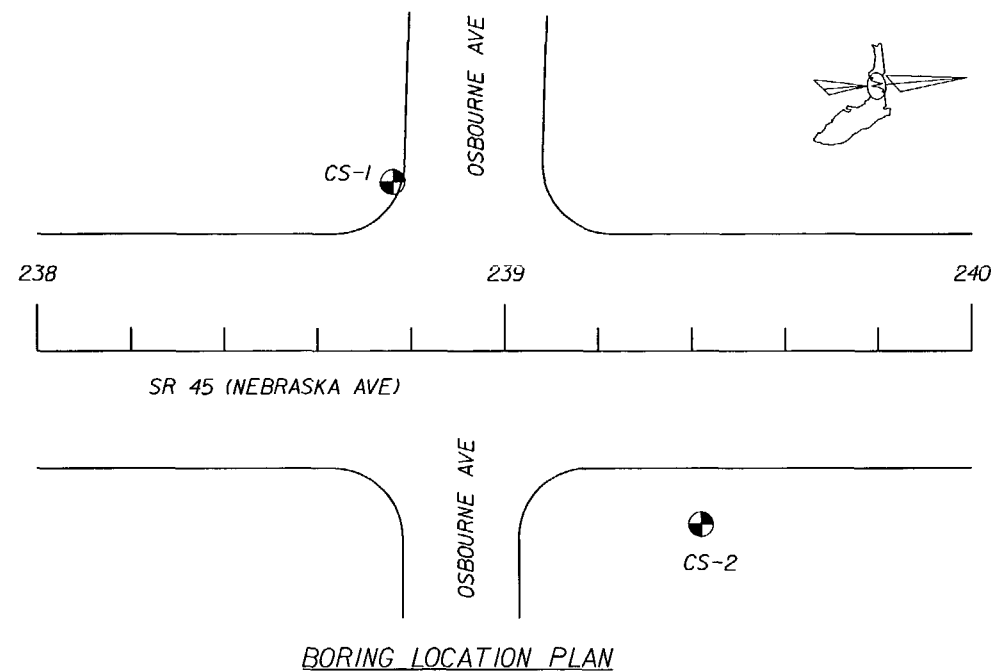
SILTS AND CLAYS-

Consistency	Safety Hammer	Automatic Hammer
	SPT N-Value Blow/Foot	SPT N-Value Blow/Foot
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 11
Very Stiff	15 - 30	11 - 21
Hard	Greater than 30	Greater than 21

1303-576-05 SSDTSG01

REVISIONS						ENGINEER OF RECORD, WILLIAMS EARTH SCIENCES, INC.			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	NAMES	DATES	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						TEJ		11/03	SR 45	HILLSBOROUGH	255853-1-52-01	SR 45 (NEBRASKA AVE) FROM KENNEDY BLVD TO HILLSBOROUGH AVE MAST ARMS & STRAIN POLES	T-41
						IFS		11-03					
						IFS		11-03					
						KDB		11-03					
						LAWRENCE D. SPEARS, P.E.	LAWRENCE D. SPEARS, P.E.	52105					

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66B-23.003, F.A.C.



LEGEND

- = SP, Sands
- = SP-SC, Slightly clayey sands
- = SP-SM, Slightly silty sands
- = SC, Clayey sands
- = LS, Limestone Formation

GENERAL NOTES

DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 7/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES.

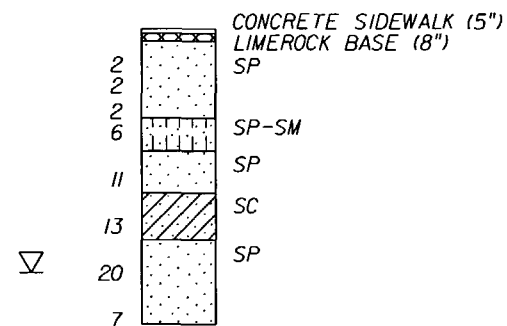
THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING.

REFER TO GEOTECHNICAL REPORT BY WILLIAMS EARTH SCIENCES FOR DETAILED BORING INFORMATION.

CREW CHIEF: BILLERA
 DRILL RIG TYPE: FAILING 1500
 HAMMER TYPE: MANUAL

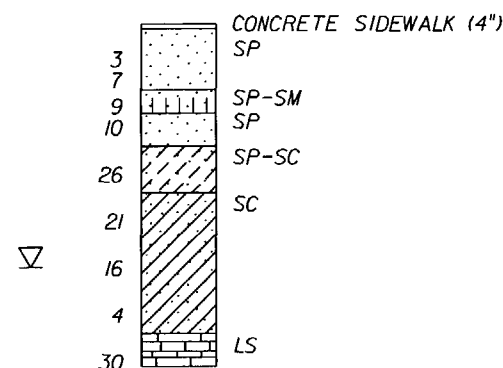
BORING NUMBER	SOIL LAYER DEPTHS (feet)		SOIL TYPE NUMBER soil type 1 thru 8	SPT N-VALUE	SATURATED UNIT WEIGHT pcf	EFFECTIVE UNIT WEIGHT pcf	INTERNAL ANGLE OF FRICTION ϕ degrees	SHEAR STRENGTH OF LIMESTONE tsf	Ka active earth pressure coef.	Kp passive earth pressure coef.
	From	to								
CS-1	0.0	16.5	1	5	105	105	28	-	0.36	2.77
	16.5	22.5	3	13	110	110	33	-	0.29	3.39
	22.5	31.5	1	14	110	48	32	-	0.31	3.25
CS-2	0.0	17.0	1	11	110	110	32	-	0.31	3.25
	17.0	32.0	3	13	110	48	33	-	0.29	3.39
	32.0	36.5	7	30	120	58	-	3.0	-	-

BORING NO. CS-1
 STA. 238+76
 OFFSET 36' LT
 DATE 11/3/2003



BORING TERMINATED @ 31.5'
 NOTE: BOREHOLE WAS GROUTED
 GROUNDWATER WAS ESTIMATED

BORING NO. CS-2
 STA. 239+42
 OFFSET 37' RT
 DATE 10/9/2003



BORING TERMINATED @ 36.5'
 NOTE: BOREHOLE WAS GROUTED

= Water Table

NM = Natural Moisture Content
 -200 = % Passing #200 Sieve
 LL = Liquid Limit
 PI = Plasticity Index
 = Lab Results

GRANULAR MATERIALS-

Relative Density	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
Very Loose	Less than 4	Less than 3
Loose	4 - 10	3 - 7
Medium or Compact	10 - 30	7 - 21
Dense	30 - 50	21 - 35
Very Dense	Greater than 50	Greater than 35

SILTS AND CLAYS-

Consistency	Safety Hammer SPT N-Value Blow/Foot	Automatic Hammer SPT N-Value Blow/Foot
Very Soft	Less than 2	Less than 1
Soft	2 - 4	1 - 3
Firm	4 - 8	3 - 6
Stiff	8 - 15	6 - 11
Very Stiff	15 - 30	11 - 21
Hard	Greater than 30	Greater than 21

1303-576-05 SSDTSG02

REVISIONS				NAMES		DATES		ENGINEER OF RECORD:			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DRAWN BY	TEJ	11/03	WILLIAMS EARTH SCIENCES, INC.			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	REPORT OF CORE BORINGS	
						CHECKED BY	IFS	11-03	10600 Endeavour Way			SR 45	HILLSBOROUGH	255853-1-52-01	SR 45 (NEBRASKA AVE) FROM KENNEDY BLVD TO HILLSBOROUGH AVE MAST ARMS & STRAIN POLES	
						DESIGNED BY	IFS	11-03	Largo, Flor Ida 33777						PROJECT NAME:	SHEET NO.
						CHECKED BY	KDB	11-03	C. A. 637B							T-42
						APPROVED BY	LAWRENCE D. SPEARS, P.E.	11-03	LAWRENCE D. SPEARS, P.E. 52105							

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