

FINAL PLANS

STATE OF FLORIDA

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY

STATE PROJECT NO. 13010-3531
MANATEE COUNTY
STATE ROAD NO. 45 (U.S. BUS. 41)

W.P.I. NO. 1115308

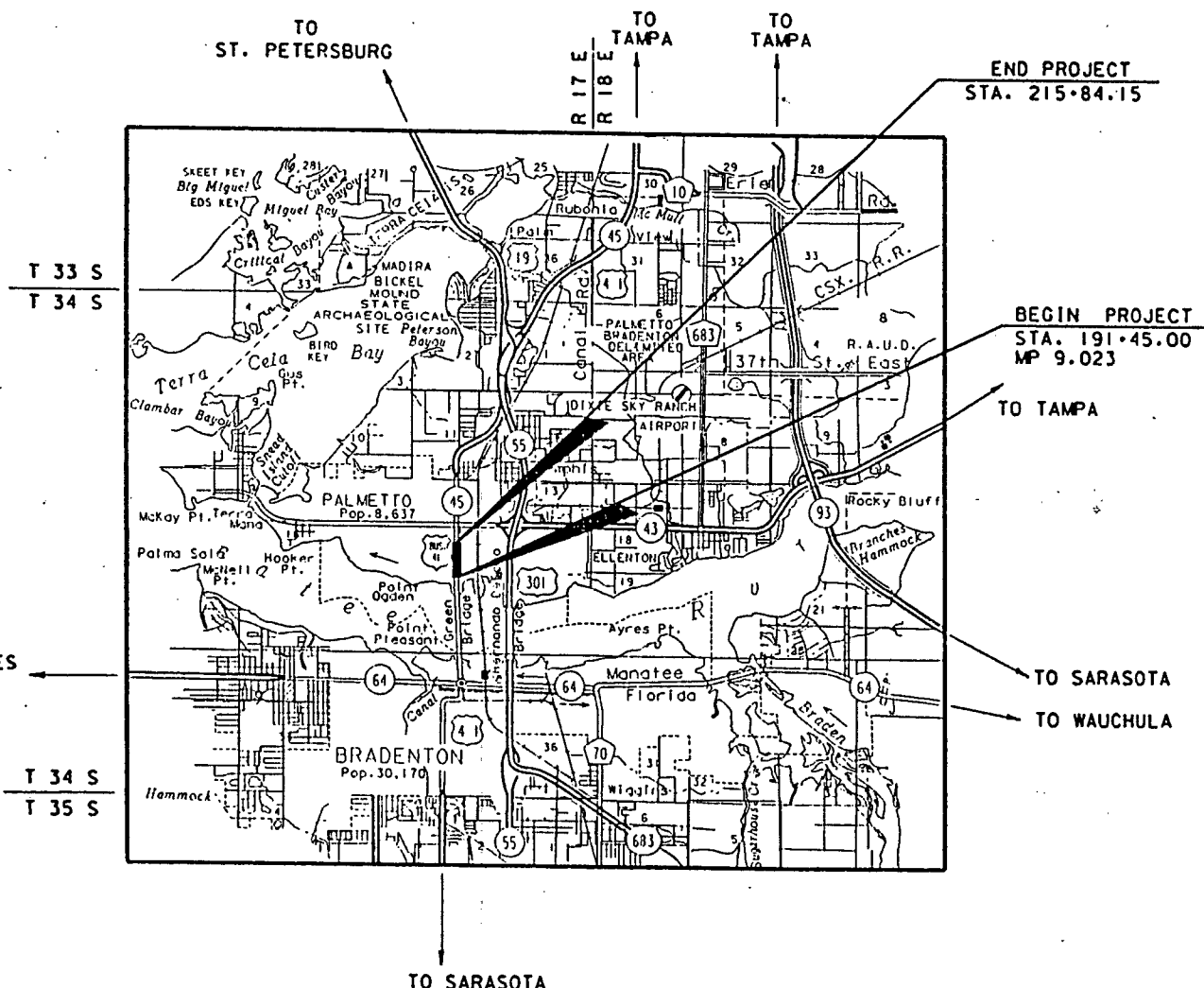
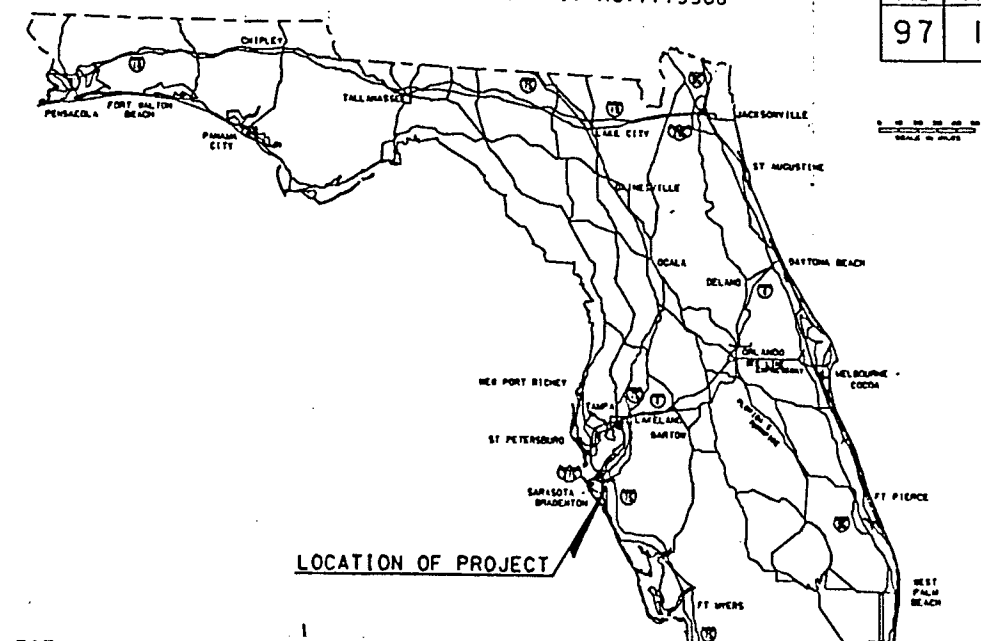
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|------------|-----------|
| PYCL. YEAR | SHEET NO. |
| 97 | 1 |

THIS DISTRICT CONTRACT PLAN SET INCLUDES:

- ROADWAY PLANS
- SIGNING & MARKING PLANS
- SIGNALIZATION PLANS

INDEX OF ROADWAY PLANS

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CONTRACTOR: GATOR ASPHALT PAVING
DISTRICT SECRETARY: D. A. TWIDDY, P.E.
RESIDENT ENGINEER: ROBERT F. WADE, P.E.
PROJECT MANAGER: BRENT WIGGINS
PROJECT ENGINEER: ALBERT ROSENSTEIN
DATE WORK STARTED: 03/01/98
DATE JOB FINAL ACCEPTED: 03/16/99

PLANS PREPARED BY
TOMASINO AND ASSOCIATES, INC.
10921 N. 56 ST. SUITE 200
TEMPLE TERRACE, FL. 33617
(813) 988-9102
THOMAS J. MONTGOMERY P.E.
VENDOR NO. F-59-135-021-5

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
GOVERNING SPECIFICATIONS, STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1991, SUPPLEMENTS AND SPECIAL PROVISIONS THERETO IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY, 1994).

REVISIONS
REVISIONS DATED 3-11-96
REVISED SHEETS 1,4,5,6,7,8 & 10 ADD SHEETS 30-32

LENGTH OF PROJECT

| | LINEAR FT. | MILES |
|-----------------------|------------|-------|
| ROADWAY | 2439.15 | 0.461 |
| BRIDGES | 0.00 | 0.000 |
| NET LENGTH OF PROJ. | 2439.15 | 0.461 |
| EXCEPTIONS | 0.00 | 0.000 |
| GROSS LENGTH OF PROJ. | 2439.15 | 0.461 |

| REVISIONS | | |
|-----------|-----|---|
| DATE | BY | DESCRIPTION |
| 3/11/96 | BCW | ADD ADDITIONAL SHEET DESCRIPTION TO INDEX OF ROADWAY PLANS |
| 7/17/96 | DEC | ADDED VENDOR NUMBER, REMOVED STANDARD SPECIFICATION NOTE, DASHED WORK ZONE ON MAP, REVISED SHEET NUMBERS, ADDED SPECIFICATION NOTE. |
| 7/17/96 | DEC | ADDED INDEXES 0304 & 011865 |

REVISIONS DATED 3/11/96 & 7/17/96
APPROVED BY: *Thomas J. Montgomery*
DATE: May 13, 1997
P.E. NO.: 12495

ROADWAY PLANS
APPROVED BY: THOMAS J. MONTGOMERY
DATE: 6-5-95
P.E. NO.: 35008

FDOT PROJECT MANAGER : BRENT WIGGINS

Wed Nov 13 10:31:45 EST 1997

FLORIDA DEPARTMENT OF TRANSPORTATION
 DISTRICT CONTRACT SUMMARY OF PAY ITEMS

FLORIDA DEPARTMENT OF TRANSPORTATION
 DISTRICT CONTRACT SUMMARY OF PAY ITEMS

| PAY ITEM NUMBER | PAY ITEM DESCRIPTION | BID UNIT | JOB NUMBER | PLAN QUANTITY | TOTAL QUANTITY |
|-----------------|---|----------|------------|---------------|----------------|
| A 101-1 | MOBILIZATION | LS | 13010-3531 | 1.000 | 1.000 |
| A 102-1 | MAINTENANCE OF TRAFFIC | LS | 13010-3531 | 1.000 | 1.000 |
| A 102-3 | COMMERCIAL MATERIAL FOR DRIVEWAY MAINTENANCE | CY | 13010-3531 | 50.000 | 50.000 |
| A 102-10 | OFF-DUTY LAW ENFORCEMENT OFFICER | HR | 13010-3531 | 160.000 | 160.000 |
| A 102-74-1 | BARRICADE (TEMP) (TYPES F, G, VP & DRUM) | EO | 13010-3531 | 19239.000 | 19239.000 |
| A 102-74-2 | BARRICADE (TEMP) (TYPES H) | EO | 13010-3531 | 1180.000 | 1180.000 |
| A 102-75-1 | CONST SIGNS (TEMP-POST MOUNTED) (9 SF) | EO | 13010-3531 | 320.000 | 1180.000 |
| A 102-75-2 | CONST SIGNS (TEMP-POST MOUNTED) (9 SF) | EO | 13010-3531 | 8157.000 | 320.000 |
| A 102-76 | ADVANCE WARNING ARROW PANELS | EO | 13010-3531 | 240.000 | 8157.000 |
| A 102-77 | HIGH INTEN. FLASHING LIGHTS (TEMP-TYPE B) | EO | 13010-3531 | 3600.000 | 240.000 |
| A 102-78 | REFLECTIVE PAVT MARKER (TEMP) | EA | 13010-3531 | 1016.000 | 3600.000 |
| A 102-96 | TEMP REGULATORY SIGNS (POST MOUNTED) | EO | 13010-3531 | 600.000 | 1016.000 |
| A 102-911-2 | REMOVABLE PAVEMENT MARKING (WHITE/BLACK SOLID) | LF | 13010-3531 | 9903.000 | 600.000 |
| A 102-911-3 | REMOVABLE PAVEMENT MARKING (WHITE/BLACK) (OTHER) | SF | 13010-3531 | 2577.000 | 9903.000 |
| A 102-912-1 | REMOVABLE PAVEMENT MARKING (YELLOW) (SKIP) | LF | 13010-3531 | 216.000 | 2577.000 |
| A 102-912-2 | REMOVABLE PAVEMENT MARKING (YELLOW) (SOLID) | LF | 13010-3531 | 21400.000 | 216.000 |
| A 104-10 | BALED HAY OR STRAW | TN | 13010-3531 | 16.200 | 21400.000 |
| A 104-11 | FLOATING TURBIDITY BARRIER | LF | 13010-3531 | 100.000 | 16.200 |
| A 104-13 | STAKED SILT FENCE | LF | 13010-3531 | 214.000 | 100.000 |
| A 110-1 | CLEARING AND GRUBBING | LS | 13010-3531 | 1.000 | 214.000 |
| A 110-4 | REMOVAL OF EXISTING PAVEMENT | SF | 13010-3531 | 2882.000 | 1.000 |
| A 120-1 | REGULAR EXCAVATION | CY | 13010-3531 | 9144.000 | 2882.000 |
| A 285-715 | OPTIONAL BASE (BASE GROUP 15) | SF | 13010-3531 | 13377.000 | 9144.000 |
| A 300-1 | BITUMINOUS MATERIAL (TACK COAT) | GA | 13010-3531 | 1439.000 | 13377.000 |
| A 327-71 | ISOLATED MILLING EXISTING ASPHALT PAVEMENT | SF | 13010-3531 | 3689.000 | 1439.000 |
| A 331-2 | TYPE 5 ASPHALTIC CONCRETE (INC. BIT.) | TN | 13010-3531 | 1214.500 | 3689.000 |
| A 331-72-30 | TYPE 5 ASPHALTIC CONCRETE (INC. BIT.) (3") | SF | 13010-3531 | 13377.000 | 1214.500 |
| A 337-5-3 | ASPHALTIC CONCRETE FRICTION COURSE (1" FC-5) (RUBBER) | SF | 13010-3531 | 13377.000 | 13377.000 |
| A 400-1 | CLASS 1 CONCRETE (MISC) | CY | 13010-3531 | 5.000 | 13377.000 |
| A 425-1-351 | INLET CURB (TYPE P-5) (10') | EA | 13010-3531 | 15.000 | 5.000 |
| A 425-1-355 | INLET CURB (TYPE P-5) (PARTIAL) | EA | 13010-3531 | 2.000 | 15.000 |
| A 425-1-361 | INLET CURB (TYPE P-6) (10') | EA | 13010-3531 | 7.000 | 2.000 |
| A 425-1-365 | INLET CURB (TYPE P-6) (PARTIAL) | EA | 13010-3531 | 1.000 | 7.000 |
| A 425-2-41 | MANHOLES (P-7) (10') | EA | 13010-3531 | 10.000 | 1.000 |
| A 425-2-43 | MANHOLES (P-7) (PARTIAL) | EA | 13010-3531 | 8.000 | 10.000 |
| A 425-2-71 | MANHOLE (J-7) (10') | EA | 13010-3531 | 2.000 | 8.000 |
| A 425-2-73 | MANHOLE (J-7) (PARTIAL) | EA | 13010-3531 | 2.000 | 2.000 |
| A 425-5-1 | ADJUSTING MANHOLES (UTILITY) | EA | 13010-3531 | 9.000 | 2.000 |
| A 430-11-225 | CONC PIPE CULV (CLASS 1) (18" SS) | LF | 13010-3531 | 1201.000 | 9.000 |
| | | | | | 1201.000 |

| PAY ITEM NUMBER | PAY ITEM | BID | JOB | PLAN QUANTITY | TOTAL QUANTITY |
|-----------------|---|-----|------------|---------------|----------------|
| A 430-11-229 | CONC PIPE CULV (CLASS 1) (24" SS) | LF | 13010-3531 | 323.000 | 323.000 |
| A 430-11-233 | CONC PIPE CULV (CLASS 1) (30" SS) | LF | 13010-3531 | 146.000 | 146.000 |
| A 430-141-008 | ELLIP CONC PIPE CULV (CLASS HE 1) (34"x53" SS) | LF | 13010-3531 | 32.000 | 32.000 |
| A 430-110-25 | PIPE STEEL CULV (18") | LF | 13010-3531 | 40.000 | 40.000 |
| A 520-1-10 | CONC CURB & GUTTER (TYPE F) | LF | 13010-3531 | 4814.000 | 40.000 |
| A 522-1 | CONCRETE SIDEWALK (4" THICK) | SF | 13010-3531 | 2539.000 | 4814.000 |
| A 522-2 | CONCRETE SIDEWALK (6" THICK) | SF | 13010-3531 | 594.000 | 2539.000 |
| A 570-5 | FERTILIZER | TN | 13010-3531 | 0.100 | 594.000 |
| A 570-9 | WATER FOR GRASS | MG | 13010-3531 | 0.110 | 0.100 |
| A 575-1 | SODDING | SF | 13010-3531 | 107.000 | 0.110 |
| A 620-1-1 | GROUNDING ELECTRODE (FB1) | LF | 13010-3531 | 730.000 | 107.000 |
| A 630-1-11 | CONDUIT (ABOVE GROUND) (FB1) | LF | 13010-3531 | 90.000 | 730.000 |
| A 630-1-12 | CONDUIT (UNDER GROUND) (FB1) | LF | 13010-3531 | 3218.000 | 90.000 |
| A 630-1-13 | CONDUIT (UNDER PAVEMENT) (FB1) | LF | 13010-3531 | 27.000 | 3218.000 |
| A 632-6-1 | SIGNAL CABLE (FB1) | LF | 13010-3531 | 306.000 | 27.000 |
| A 632-7-1 | SIGNAL CABLE (FB1) | PF | 13010-3531 | 2.000 | 306.000 |
| A 632-8-212 | CABLE INTERCONNECT (1" 25 PAIR) (UNDERGROUND) | LF | 13010-3531 | 2093.000 | 2.000 |
| A 635-1-11 | PULL AND JUNCTION BOXES (FB1) | EA | 13010-3531 | 39.000 | 2093.000 |
| A 635-1-12 | PULL AND JUNCTION BOX (AERIAL JUNCTION BOX) | EA | 13010-3531 | 1.000 | 39.000 |
| A 639-1-22 | ELECTRICAL POWER SERVICE WETER (UNDERGROUND) | AS | 13010-3531 | 2.000 | 1.000 |
| A 639-2-1 | ELECTRICAL SERVICE WIRE (FB1) | LF | 13010-3531 | 1843.000 | 2.000 |
| A 641-41-112 | STRAIN POLE CONCRETE (B 1) (DIRECT BURIAL) (TYPE N) (12") | EA | 13010-3531 | 2.000 | 1843.000 |
| A 647-31-30 | WAST ARM COMBINATIONS, STD. (STEEL, SINGLE ARM) (INSTALL) | EA | 13010-3531 | 1.000 | 2.000 |
| A 647-31-38 | WAST ARM COMBINATIONS, STD. (STEEL, SINGLE ARM) (INSTALL) | EA | 13010-3531 | 1.000 | 1.000 |
| A 647-33-76 | WAST ARM COMBINATIONS, STD. (STEEL, DOUBLE ARM) (INSTALL) | EA | 13010-3531 | 1.000 | 1.000 |
| A 647-33-80 | WAST ARM COMBINATIONS, STD. (STEEL, DOUBLE ARM) (INSTALL) | EA | 13010-3531 | 1.000 | 1.000 |
| A 647-33-100 | WAST ARM COMBINATIONS, STD. (STEEL, DOUBLE ARM) (INSTALL) | EA | 13010-3531 | 1.000 | 1.000 |
| A 650-1-131 | TRAFFIC SIGNAL, T2 STD (3-SECT., 1-WAY) | AS | 13010-3531 | 15.000 | 1.000 |
| A 650-1-131 | TRAFFIC SIGNAL, T2 STD (3-SECT., 1-WAY) (INSTALL ONLY) | AS | 13010-3531 | 45.000 | 15.000 |
| A 650-1-151 | TRAFFIC SIGNAL, T2 STD (3-SECT. CLUSTER) | AS | 13010-3531 | 1.000 | 45.000 |
| A 653-112 | PEDESTRIAN SIGNALS (12" INCANDESCENT) | AS | 13010-3531 | 8.000 | 1.000 |
| A 659-101 | SIGNAL HEAD AUXILIARIES (BACK PLATES, 3-SECTION) | EA | 13010-3531 | 16.000 | 8.000 |
| A 659-103 | SIGNAL HEAD AUXILIARIES (BRACKETS) | EA | 13010-3531 | 16.000 | 16.000 |
| A 659-107 | SIGNAL HEAD AUXILIARIES (ALUMINUM PEDESTAL) | EA | 13010-3531 | 3.000 | 16.000 |
| A 659-118 | SIGNAL HEAD AUXILIARIES (BACK PLATES, 3-SECTION CLUSTER) | EA | 13010-3531 | 1.000 | 3.000 |
| A 660-1-103 | INDUCTIVE LOOP DETECTOR (FB1) (TYPE 3) | EA | 13010-3531 | 15.000 | 1.000 |
| A 660-2-102 | LOOP ASSEMBLY (FB1) (TYPE B) | AS | 13010-3531 | 10.000 | 15.000 |
| A 660-2-106 | LOOP ASSEMBLY (FB1) (TYPE F) | AS | 13010-3531 | 24.000 | 10.000 |
| | | | | | 24.000 |

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| REVISIONS | | | | | | | | | | | |
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| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

SUMMARY OF PAY ITEMS

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. Miller*
 DATE: 5/13/92

| PAY ITEM NUMBER | PAY ITEM DESCRIPTION | BID UNIT | JOB NUMBER | PLAN QUANTITY | TOTAL QUANTITY |
|-----------------|--|----------|------------|---------------|----------------|
| A 665-11 | PEDESTRIAN DETECTOR (FBI) (POLE OR CABINET MOUNT) | EA | 13010-3531 | 10.000 | 10.000 |
| A 665-15 | PEDESTRIAN DETECTOR (FBI) (DETECTOR WITH SIGN ONLY) | EA | 13010-3531 | 6.000 | 6.000 |
| A 670-113-054 | ACT SS CONTRL ASSM (FBI) (D-4, Y, B, C, LOS-4) | AS | 13010-3531 | 2.000 | 2.000 |
| A 680-111 | SYSTEM CONTROL EQUIPMENT (FBI) (ROADSIDE MASTER) | EA | 13010-3531 | 1.000 | 1.000 |
| A 680-115 | SYS CNTRL EQUIPT (FBI) (AUDIO/DIAL ANSWER EXT COM MODEM) | EA | 13010-3531 | 1.000 | 1.000 |
| A 685-127 | SYSTEM AUXILIARIES (TELEPHONE CONNECTION BOX) | EA | 13010-3531 | 1.000 | 1.000 |
| A 690-10 | REMOVE TRAFFIC SIGNAL HEAD ASSEMBLY | EA | 13010-3531 | 56.000 | 56.000 |
| A 690-20 | REMOVE PEDESTRIAN SIGNAL ASSEMBLY | EA | 13010-3531 | 7.000 | 7.000 |
| A 690-30 | REMOVE POLES | EA | 13010-3531 | 4.000 | 4.000 |
| A 690-50 | REMOVE CONTROLLER ASSEMBLY | EA | 13010-3531 | 2.000 | 2.000 |
| A 690-60 | REMOVE VEHICLE DETECTOR ASSEMBLY | EA | 13010-3531 | 3.000 | 3.000 |
| A 690-70 | REMOVE PEDESTRIAN DETECTOR ASSEMBLY | EA | 13010-3531 | 4.000 | 4.000 |
| A 690-80 | REMOVE SPAN WIRE ASSEMBLY | EA | 13010-3531 | 2.000 | 2.000 |
| A 690-90 | REMOVE CABLE AND CONDUIT | PI | 13010-3531 | 2.000 | 2.000 |
| A 690-91 | SIGNAL INTERCONNECT CABLE REMOVE | LF | 13010-3531 | 1020.000 | 1020.000 |
| A 690-100 | REMOVE MISC SIGNAL EQUIPMENT | PI | 13010-3531 | 2.000 | 2.000 |
| A 700-40-1 | SIGN SINGLE POST (125F) | AS | 13010-3531 | 13.000 | 13.000 |
| A 700-46-11 | REMOVE EXISTING SIGN (SINGLE POST) | AS | 13010-3531 | 13.000 | 13.000 |
| A 700-48-18 | SIGN PANEL (FBI) (5 OR 7) | EA | 13010-3531 | 4.000 | 4.000 |
| A 700-48-28 | SIGN INSTALL (ONLY) | EA | 13010-3531 | 2.000 | 2.000 |
| A 700-48-60 | REMOVE SIGN | EA | 13010-3531 | 11.000 | 11.000 |

| PAY ITEM NUMBER | PAY ITEM DESCRIPTION | BID UNIT | JOB NUMBER | PLAN QUANTITY | TOTAL QUANTITY |
|-----------------|--|----------|------------|---------------|----------------|
| A 706-11-12 | REFLECTIVE PAVEMENT MARKERS (FBI) CLASS B | EA | 13010-3531 | 475.000 | 475.000 |
| A 710-6 | DIRECTIONAL ARROWS, PAINTED | EA | 13010-3531 | 12.000 | 12.000 |
| A 710-7 | PAVEMENT MESSAGE, PAINTED | EA | 13010-3531 | 20.000 | 20.000 |
| A 710-21 | SKIP TRAFFIC STRIPE (WHITE/BLACK) | GM | 13010-3531 | 2.174 | 2.174 |
| A 710-23-61 | SOLID TRAFFIC STRIPE (WHITE/BLACK) (6") | NM | 13010-3531 | 2.242 | 2.242 |
| A 710-24-61 | SOLID TRAFFIC STRIPE (YELLOW) (6") | NM | 13010-3531 | 3.718 | 3.718 |
| A 710-25-121 | SOLID TRAFFIC STRIPE (WHITE/BLACK) (12") | LF | 13010-3531 | 2248.000 | 2248.000 |
| A 710-25-241 | SOLID TRAFFIC STRIPE (WHITE/BLACK) (24") | LF | 13010-3531 | 1040.000 | 1040.000 |
| A 710-26-181 | SOLID TRAFFIC STRIPE (YELLOW) (18") | LF | 13010-3531 | 290.000 | 290.000 |
| A 710-28 | SKIP TRAFFIC STRIPE (YELLOW) | LF | 13010-3531 | 286.000 | 286.000 |
| A 711-3 | PAVEMENT MESSAGES, THERMOPLASTIC | EA | 13010-3531 | 10.000 | 10.000 |
| A 711-4 | DIRECTIONAL ARROWS, THERMOPLASTIC | EA | 13010-3531 | 6.000 | 6.000 |
| A 711-31 | SKIP TRAFFIC STRIPE, THERMOPLASTIC (WHITE) | GM | 13010-3531 | 1.087 | 1.087 |
| A 711-34 | SKIP TRAFFIC STRIPE, THERMOPLASTIC (YELLOW) | LF | 13010-3531 | 143.000 | 143.000 |
| A 711-35-121 | SOLID TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (12") | LF | 13010-3531 | 1265.000 | 1265.000 |
| A 711-35-241 | SOLID TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (24") | LF | 13010-3531 | 548.000 | 548.000 |
| A 711-36-181 | SOLID TRAFFIC STRIPE, THERMOPLASTIC (YELLOW) (18") | LF | 13010-3531 | 145.000 | 145.000 |
| A 711-37-61 | SOLID TRAFFIC STRIPE, THERMOPLASTIC (WHITE) (6") | NM | 13010-3531 | 1.121 | 1.121 |
| A 711-38-61 | SOLID TRAFFIC STRIPE, THERMOPLASTIC (YELLOW) (6") | NM | 13010-3531 | 1.859 | 1.859 |
| A 715-2-216 | CONDUIT 1.5" (DIRECTIONAL BORE) | LF | 13010-3531 | 976.000 | 976.000 |
| A 715-5-12 | LUMINAIRE B BRACKET ARM (GALVANIZED STEEL) | EA | 13010-3531 | 3.000 | 3.000 |

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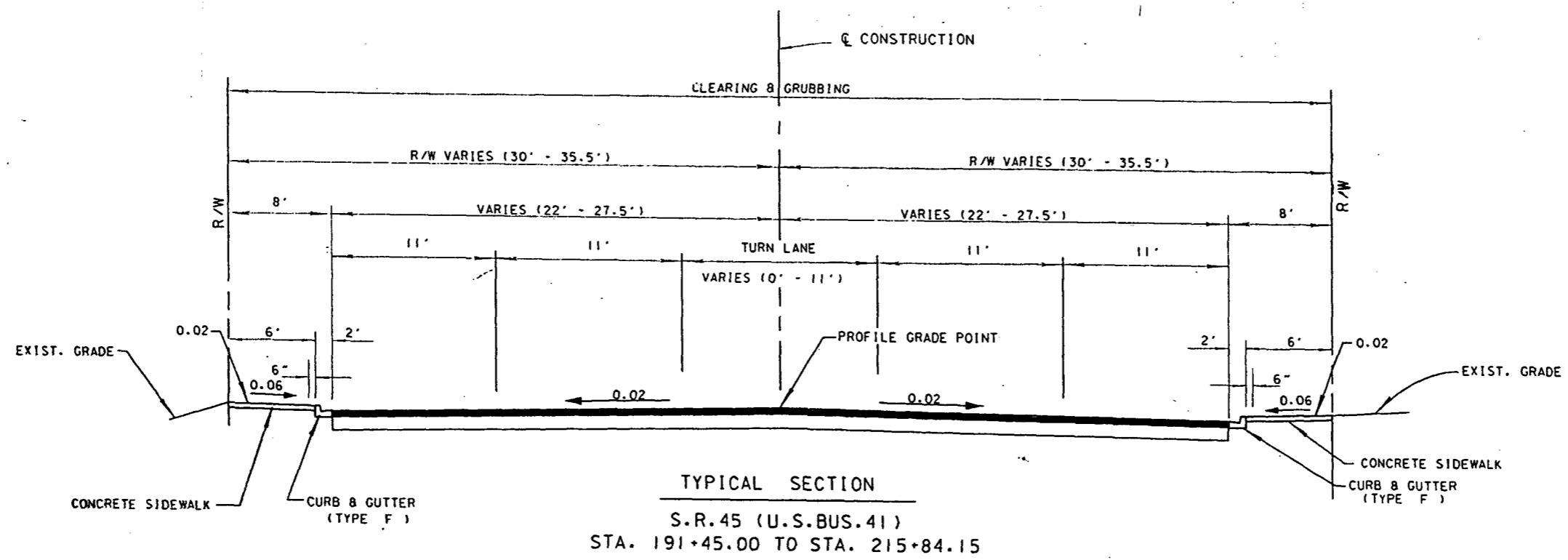
REVISIONS

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

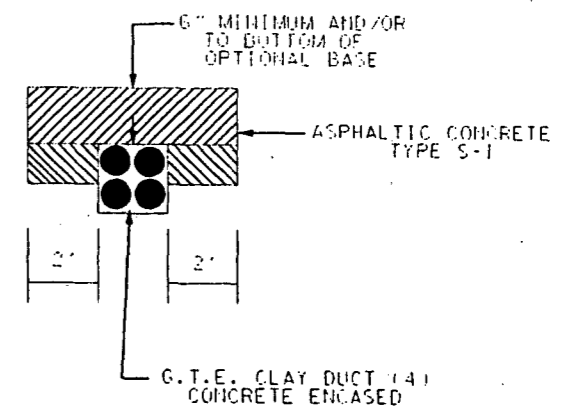
SUMMARY OF PAY ITEMS

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *Thomas M. Stanger*
DATE: 5/13/97



NEW CONSTRUCTION
 OPTIONAL BASE GROUP 15 (FOR THICKNESS SEE BELOW) WITH
 TYPE S ASPHALTIC CONCRETE STRUCTURE COURSE (3") AND ASPHALTIC
 CONCRETE FRICTION COURSE TYPE FC-3 (RUBBER) (1")

OPTIONAL BASE COURSES PERMITTED OPTION CODE
 9" ASPHALT BASE COURSE (TYPE 3) 567



TYPICAL SECTION FOR G.T.E. DUCT CAP
 STA. 191+45 TO STA. 215+84.15
 DETAIL NOT NEEDED
 EXTRA ASPHALT NOT USED

TRAFFIC DATA:

CURRENT YEAR ESTIMATE • 1996 • 27,411 ADT
 ESTIMATED OPENING YEAR ESTIMATE • 1997 • 27,943 ADT
 DESIGN YEAR ESTIMATE • 2017 • 33,800 ADT
 K = 9.8%, D = 53.3%, T24 = 4.8%
 DESIGN SPEED 35 MPH

EROSION CONTROL NOTE:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENT FOR THE CONTRACTOR'S PREPARATION OF AN EROSION CONTROL PLAN THAT ADDRESSES THE PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION. THIS PLAN IS SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER.

REVISIONS DATED 07/17/95
 APPROVED BY *[Signature]*
 DATE APPROVED 5/13/97
 PE NO. 18495

13010-5551-4

| DATE | | BY | | DESCRIPTION | | DATE | | BY | | DESCRIPTION | | DATE | | BY | | DESCRIPTION | |
|----------|-----|-------------------------------|----------|-------------|----------------------|----------|-----|-----------------------------|----------|-------------|--------------------------------|------|--|----|--|-------------|--|
| 07/17/95 | MEC | REVISED NEW CORNER | 07/17/95 | MEC | REVISED TRAFFIC DATA | 07/17/95 | MEC | REVISED ASPHALT BASE COURSE | 07/17/95 | MEC | REVISED TYPE "B" STABILIZATION | | | | | | |
| | | ADDED TYPICAL SECTION STATION | | | REVISED SHOULDERS | | | | | | | | | | | | |

SUMMARY OF DRAINAGE STRUCTURES

STATE PROJ. NO. **13010-3531** SHEET NO. **6**

| QUANTITY | STR. NO. | STATION | SIDE | DESCRIPTION | SIZE (IN.) | LENGTH (FT.) | STORM SEWER | | | | CURB INLETS | | | | MANHOLE | | | | ADJUST M. H. UTILITY | STEEL PIPE CULVERT | REMARKS | |
|----------|----------|------------------|------|-------------|------------|--------------|------------------|------|-----|---------|-------------|---------|-----|---------|---------|---------|-----|---------|----------------------|--------------------|---------|--|
| | | | | | | | RCP | RCP | RCP | ELCP | P-5 | P-5 | P-6 | P-6 | P-7 | P-7 | J-7 | J-7 | | | | |
| | | | | | | | 18" | 24" | 30" | 34"X53" | 10' | PARTIAL | 10' | PARTIAL | 10' | PARTIAL | 10' | PARTIAL | | | | |
| P | S-1 | 192-10 | LT | INLET, PIPE | 18 | 30 | | | | | | | | | | | | | | | | |
| P | S-2 | 192-39.4 | RT | MH, PIPE | 24 | 35 | | | | | | | | | | | | | | | | |
| P | S-4 | 192-42.6 | LT | MH, PIPE | 18 | 29 | | | | | | | | | | | | | | | | |
| P | S-5 | 192-77 | RT | INLET, PIPE | 18 | 26 | | | | | | | | | | | | | | | | |
| P | S-6 | 30-53 (4TH. ST.) | RT | INLET, PIPE | 18 | 49 | | | | | | | | | | | | | | | | |
| P | S-7 | 193-07 | LT | INLET, PIPE | 18 | 61 | | | | | | | | | | | | | | | | |
| P | S-8 | 195-04 | LT | INLET, PIPE | 18 | 14 | | | | | | | | | | | | | | | | |
| P | S-8A | 195-04 | LT | MH, PIPE | 18 | 26 | | | | | | | | | | | | | | | | |
| P | S-9 | 195-04 | RT | INLET, PIPE | 18 | 224 | | | | | | | | | | | | | | | | |
| P | S-10 | 198-00 | LT | INLET, PIPE | 18 | 97 | | | | | | | | | | | | | | | | |
| P | S-11 | 198-70 | RT | INLET, PIPE | 18 | 9 | | | | | | | | | | | | | | | | |
| P | S-12 | 199-00 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-13 | 199-25 | LT | INLET, PIPE | 18 | 3 | | | | | | | | | | | | | | | | |
| P | S-14 | 199-25 | LT | MH, PIPE | 18 | 52 | | | | | | | | | | | | | | | | |
| P | S-15 | 200-44 | RT | INLET, PIPE | 18 | 260 | | | | | | | | | | | | | | | | |
| P | S-16 | 200-97 | LT | INLET, PIPE | 18 | 3 | | | | | | | | | | | | | | | | |
| P | S-17 | 200-97 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-18 | 201-12 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-19 | 202-80 | LT | INLET, PIPE | 18 | 3 | | | | | | | | | | | | | | | | |
| P | S-20 | 202-80 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-21 | 202-92 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-22 | 203-07 | RT | INLET | | | | | | | | | | | | | | | | | | |
| P | S-24 | 203-07 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-25 | 203-07 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-26 | 204-20 | LT | INLET, PIPE | 18 | 7 | | | | | | | | | | | | | | | | |
| P | S-27 | 204-20 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-28 | 205-10 | LT | INLET, PIPE | 18 | 43 | | | | | | | | | | | | | | | | |
| P | S-29 | 205-10 | RT | INLET, PIPE | 18 | 42 | | | | | | | | | | | | | | | | |
| P | S-30 | 205-55 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-32 | 205-55 | RT | MH, PIPE | 34X53 | 32 | | | | | | | | | | | | | | | | |
| P | S-33 | 205-54.7 | RT | MH, PIPE | 18 | 4 | | | | | | | | | | | | | | | | |
| P | S-34 | 206-18 | LT | MH | | | | | | | | | | | | | | | | | | |
| P | S-35 | 206-18 | LT | INLET | | | | | | | | | | | | | | | | | | |
| P | S-36 | 206-32 | RT | MH | | | | | | | | | | | | | | | | | | |
| P | S-37 | 206-35 | RT | INLET | | | | | | | | | | | | | | | | | | |
| P | S-38 | 209-55 | LT | INLET, PIPE | 18 | 33 | | | | | | | | | | | | | | | | |
| P | S-40 | 209-91 | LT | MH, PIPE | 18 | 37 | | | | | | | | | | | | | | | | |
| P | S-42 | 210-00 | RT | INLET, PIPE | 18 | 6 | | | | | | | | | | | | | | | | |
| | | | | | | | SUB-TOTAL | 1058 | 35 | 0 | 32 | 13 | 2 | 4 | 1 | 7 | 8 | 1 | 2 | 0 | 0 | |

SEE ATTACHED FULL SHEET FOR FINAL STRUCTURE QUANTITIES. (SHEET 6A)

Wed Nov 13 11:20:33 1996 /usr3/proj/13010/3531/summary.dgn

REVISIONS DATED APPROVED BY: *[Signature]*
 DATE: 5/13/97
 P.E. NO.: 18935

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|---|---------|-----|----------------------------------|------|----|-------------|------|----|-------------|
| 1/20/95 | BCM | CHANGE LENGTHS FOR S-8, S-8A, S-11 AND S-13 | 7/17/96 | GEC | REVISED SHEET NUMBER | | | | | | |
| | | CHANGE TOTAL FOR 18" RCP TO 1045. | | | REVISED STORM SEWER PIPE HEADING | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION



SUMMARY OF DRAINAGE STRUCTURES

SUMMARY OF DRAINAGE STRUCTURES

STATE PROJ. NO. **13010-3531** SHEET NO. **6A**

| O U A STR. NO. | STATION | SIDE | DESCRIPTION | SIZE (IN.) LENGTH (FT.) | | STORM SEWER | | | | CURB INLETS | | | | MANHOLE | | | | ADJUST M. H. UTILITY | STEEL PIPE CULVERT LF | REMARKS |
|----------------------------|------------|-----------------|-------------|----------------------------|-----|-------------|-----|-----|---------|-------------|---------|-----|---------|---------|---------|-----|---------|----------------------------|--------------------------------|---------|
| | | | | | | RCP | RCP | RCP | ELCP | P-5 | P-5 | P-6 | P-6 | P-7 | P-7 | J-7 | J-7 | | | |
| | | | | | | 18" | 24" | 30" | 34"X53" | 10' | PARTIAL | 10' | PARTIAL | 10' | PARTIAL | 10' | PARTIAL | | | |
| S-1 | 192-10 | LY | INLET PIPE | 18 | 30 | 30 | | | | | | | | | | | | | | |
| S-2 | ELIMINATED | 192-39.4 | MH. PIPE | 24 | 35 | 35 | | | | | | | | | | | | | | |
| S-4 | ELIMINATED | 192-42.6 | MH. PIPE | 18 | 29 | 29 | | | | | | | | | | | | | | |
| S-5 | | 192-77 | INLET PIPE | 18 | 26 | 26 | | | | | | | | | | | | | | |
| S-6 | ELIMINATED | 30-53 (4TH ST.) | INLET PIPE | 18 | 49 | 49 | | | | | | | | | | | | | | |
| S-7 | | 193-07 | INLET PIPE | 18 | 61 | 61 | | | | | | | | | | | | | | |
| S-8 | | 195-04 | INLET PIPE | 18 | 14 | 14 | | | | | | | | | | | | | | |
| S-8A | | 195-04 | MH. PIPE | 18 | 26 | 26 | | | | | | | | | | | | | | |
| S-9 | | 195-04 | INLET PIPE | 18 | 224 | 224 | | | | | | | | | | | | | | |
| S-10 | | 198-00 | INLET PIPE | 18 | 97 | 97 | | | | | | | | | | | | | | |
| S-11 | | 198-70 | INLET PIPE | 18 | 9 | 9 | | | | | | | | | | | | | | |
| S-12 | | 199-00 | MH | | | 17 | | | | | | | | | | | | | | |
| S-13 | ELIMINATED | 199-25 | INLET PIPE | 18 | 3 | 3 | | | | | | | | | | | | | | |
| S-14 | ELIMINATED | 199-25 | MH. PIPE | 18 | 52 | 52 | | | | | | | | | | | | | | |
| S-15 | | 200-44 | INLET PIPE | 18 | 260 | 260 | | | | | | | | | | | | | | |
| S-16 | | 200-97 | INLET PIPE | 18 | 3 | 3 | | | | | | | | | | | | | | |
| S-17 | ELIMINATED | 200-97 | MH | | | 4 | | | | | | | | | | | | | | |
| S-18 | | 201-12 | INLET PIPE | | | | | | | | | | | | | | | | | |
| S-19 | | 202-80 | INLET PIPE | 18 | 3 | 3 | | | | | | | | | | | | | | |
| S-20 | ELIMINATED | 202-80 | MH | | | 13 | | | | | | | | | | | | | | |
| S-21 | | 202-92 | INLET PIPE | | | | | | | | | | | | | | | | | |
| S-22 | | 203-07 | INLET PIPE | | | | | | | | | | | | | | | | | |
| S-24 | | 203-07 | MH | | | | | | | | | | | | | | | | | |
| S-25 | | 203-07 | MH | | | | | | | | | | | | | | | | | |
| S-26 | | 204-20 | INLET PIPE | 18 | 7 | 7 | | | | | | | | | | | | | | |
| S-27 | | 204-20 | MH | | | | | | | | | | | | | | | | | |
| S-28 | | 205-10 | INLET PIPE | 18 | 43 | 43 | | | | | | | | | | | | | | |
| S-29 | | 205-10 | INLET PIPE | 18 | 42 | 42 | | | | | | | | | | | | | | |
| S-30 | | 205-55 | MH | | | | | | | | | | | | | | | | | |
| S-32 | | 205-55 | MH. PIPE | 34X53 | 32 | | | | | | | | | | | | | | | |
| S-33 | ELIMINATED | 205-54.7 | MH. PIPE | 18 | 4 | 4 | | | | | | | | | | | | | | |
| S-34 | | 206-18 | INLET PIPE | | | | | | | | | | | | | | | | | |
| S-35 | | 206-18 | INLET | | | | | | | | | | | | | | | | | |
| S-36 | | 206-32 | INLET | | | | | | | | | | | | | | | | | |
| S-37 | | 206-35 | INLET | | | | | | | | | | | | | | | | | |
| S-38 | | 209-55 | INLET PIPE | 18 | 33 | 33 | | | | | | | | | | | | | | |
| S-40 | ELIMINATED | 209-91 | MH. PIPE | 18 | 37 | 37 | | | | | | | | | | | | | | |
| S-42 | | 210-00 | INLET PIPE | 18 | 6 | 6 | | | | | | | | | | | | | | |

Yusr3/proj/13010/3531/sunqr01.dgn Wed Nov 13 11:20:33 1996

APPROVED BY: *[Signature]*
DATE: 5/13/95
P.E. NO. 18495

| | | | | | | | | | | | | | | |
|------------------|------|----|---|----|----|---|---|---|---|---|---|---|---|---|
| P=PLAN QUANTITY | 1058 | 35 | 0 | 32 | 13 | 2 | 4 | 1 | 7 | 8 | 1 | 2 | 0 | 0 |
| F=FINAL QUANTITY | 962 | 0 | 0 | 0 | 12 | 1 | 5 | 0 | 0 | 8 | 0 | 1 | 4 | 0 |

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|----------|-----|---|---------|-----|---|------|----|-------------|------|----|-------------|
| 11/20/95 | BCM | CHANGE LENGTHS FOR S-8, S-8A, S-11 AND CHANGE TOTAL FOR 18" RCP TO 1035 | 7/17/96 | GEC | REVISED SHEET NUMBER REVISED STORM SEWER PIPE HEADING | | | | | | |

S-1
S-2
S-3
S-5
S-6
S-7
S-8
S-8A
S-9
S-10
S-11
S-12
S-14
S-13
S-14
S-15
S-16
S-17
S-18
S-19
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S-27
S-28
S-29
S-30
S-32
S-33
S-34
S-35
S-36
S-37
S-38
S-40

SUMMARY OF DRAINAGE STRUCTURES

| QUANTITY | STR. NO. | STATION | SIDE | DESCRIPTION | SIZE (IN.) | LENGTH (FT.) | STORM SEWER | | | | CURB INLETS | | | | MANHOLE | | | | ADJUST. M. H. UTILITY | STEEL PIPE CULVERT LF | REMARKS | |
|----------|----------|-----------|------|---------------|------------|--------------|-------------|---------|---------|--------------|-------------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------------------|-----------------------|---------|----|
| | | | | | | | RCP 18" | RCP 24" | RCP 30" | ELCP 34"X53" | P-5 < 10' | P-5 PARTIAL | P-6 < 10' | P-6 PARTIAL | P-7 < 10' | P-7 PARTIAL | J-7 < 10' | J-7 PARTIAL | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| P | S-43 | 211+40 | LT | INLET, PIPE | 30 | 146 | | | 146 | | | | | | | | | | | | | |
| P | S-44 | 211+40 | RT | INLET, PIPE | 24 | 124 | | 124 | | | | | | | | | | | | | | |
| P | S-45 | 212+67 | LT | INLET, PIPE | 24 | 158 | | 158 | | | | | | | | | | | | | | |
| P | S-46 | 212+67 | RT | INLET, PIPE | 24 | 6 | | 6 | | | | | | | | | | | | | | |
| P | S-47 | 214+13 | RT | INLET, PIPE | 18 | 143 | 143 | | | | | | | | | | | | | | | |
| P | SU-1 | 192+40 | RT | MANHOLE | | | | | | | | | | | | | | | | | | |
| P | SU-2 | 192+49 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | | |
| P | SU-3 | 196+75 | RT | MANHOLE | | | | | | | | | | | | | | | | | | 10 |
| P | SU-4 | 198+79.67 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | | |
| P | SU-5 | 201+51 | RT | MANHOLE | | | | | | | | | | | | | | | | | | 10 |
| P | SU-6 | 203+07 | RT | MANHOLE | | | | | | | | | | | | | | | | | | |
| P | SU-7 | 205+55 | RT | MANHOLE | | | | | | | | | | | | | | | | | | |
| P | SU-8 | 205+72 | RT | MANHOLE | | | | | | | | | | | | | | | | | | |
| P | SU-9 | 209+75 | RT | MANHOLE | | | | | | | | | | | | | | | | | | |
| P | SU-10 | 209+98.31 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | | |
| P | SU-11 | 212+20 | RT | MANHOLE | | | | | | | | | | | | | | | | | | 10 |
| P | SU-12 | 212+67 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | | |
| P | SU-13 | 214+72.5 | RT | MANHOLE | | | | | | | | | | | | | | | | | | 10 |

SEE ATTACHED FULL SHEET FOR FINAL STRUCTURE QUANTITIES. (SHEET 7A)

| | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|--|--|--|--|--|-------------------|------|-----|-----|----|----|---|---|---|----|---|---|---|---|----|--|--|
| SUB-TOTAL THIS SHEET ONLY | | | | | | | P: PLAN QUANTITY | 143 | 288 | 146 | 0 | 2 | 0 | 3 | 0 | 3 | 0 | 1 | 0 | 9 | 40 | | |
| TOTALS | | | | | | | F: FINAL QUANTITY | | | | | | | | | | | | | | | | |
| REVISIONS DATED 1/20/95 | | | | | | | P: PLAN QUANTITY | 1201 | 323 | 146 | 32 | 15 | 2 | 7 | 1 | 10 | 8 | 2 | 2 | 9 | 40 | | |
| APPROVED BY: [Signature] | | | | | | | F: FINAL QUANTITY | | | | | | | | | | | | | | | | |
| DATE: 5/13/97 | | | | | | | | | | | | | | | | | | | | | | | |
| P.E. NO.: 16495 | | | | | | | | | | | | | | | | | | | | | | | |

Wed Nov 13 11:24:00 AM 1996 /usr3/proj/13010/3531/summary02.dgn

PLAN QUANTITY ITEM
FINAL PAY WORKSHEET

PROJECT NUMBER: 13010-3531
PROJECT ENGINEER: A. Rosenstein

ITEM NUMBER: A430-11-225
UNIT: LF

DESCRIPTION: 18" RCP
UNIT PRICE: \$29.80

| PLAN ERROR | | | | | AUTHORIZED FIELD CHANGES | | | | PLAN ERROR / FIELD CHANGE REMARKS |
|------------------|----------------------|-------------------|----------------|--------------------------|--------------------------|-------------------|-----------------------------|----------------------------|---------------------------------------|
| PLAN QUANTITY | ORIGINAL QUANTITY | FINAL QUANTITY | PLAN ERRORS | PLAN ERROR DOLLAR AMT | ORIGINAL QUANTITY | FINAL QUANTITY | AUTHORIZED FIELD CHANGES | FIELD CHANGE DOLLAR AMT | |
| 1201.00 | | | | | | | | | |
| | 0.00 | 2.00 | 2.00 | \$59.60 | | | | | S-35 (required pipe to S-34) |
| | 0.00 | 3.00 | 3.00 | \$89.40 | | | | | S-36 (required pipe to S-37) |
| | | | | | 30.00 | 35.00 | 5.00 | \$149.00 | S-1 (to new SU-2A) |
| | | | | | 29.00 | 0.00 | -29.00 | (\$864.20) | S-4 (eliminated) |
| | | | | | 26.00 | 52.00 | 26.00 | \$774.80 | S-5 (to new S-2A) |
| | | | | | 49.00 | 0.00 | -49.00 | (\$1,460.20) | S-6 (eliminated, see S-6A) |
| | | | | | 61.00 | 93.00 | 32.00 | \$953.60 | S-7 (new alignment to S-1) |
| | | | | | 9.00 | 11.00 | 2.00 | \$59.60 | S-11 (to SU-4 at conflict) |
| | | | | | 3.00 | 0.00 | -3.00 | (\$89.40) | S-13 (eliminated) |
| | | | | | 52.00 | 0.00 | -52.00 | (\$1,549.60) | S-14 (eliminated) |
| | | | | | 3.00 | 9.00 | 6.00 | \$178.80 | S-16 (new alignment to S-18) |
| | | | | | 3.00 | 13.00 | 10.00 | \$298.00 | S-19 (new alignment to S-21) |
| | | | | | 43.00 | 26.00 | -17.00 | (\$506.60) | S-28 (new alignment to exist.S-28A) |
| | | | | | 4.00 | 0.00 | -4.00 | (\$119.20) | S-33 (eliminated) |
| | | | | | 33.00 | 42.00 | 9.00 | \$268.20 | S-38 (to new S-40A) |
| | | | | | 37.00 | 0.00 | -37.00 | (\$1,102.60) | S-40 (eliminated) |
| | | | | | 143.00 | 55.00 | -88.00 | (\$2,622.40) | S-47 (88 LF placed by others) |
| | | | | | 0.00 | 22.00 | 22.00 | \$655.60 | SU-4 (new alignment to S-12A) |
| | | | | | 0.00 | 20.00 | 20.00 | \$596.00 | SU-10 (to new S-40A) |
| | | | | | 0.00 | 12.00 | 12.00 | \$357.60 | New S-2A (to exist inlet 4th St, Rt.) |
| | | | | | 0.00 | 71.00 | 71.00 | \$2,115.80 | New S-6A (to S-1) |
| | | | | | 0.00 | 10.00 | 10.00 | \$298.00 | New S-12A (to SU-4) |
| | | | | | 0.00 | 6.00 | 6.00 | \$178.80 | New SU-2A (to S-2SB) |
| 1201.00 | | | 5.00 | \$149.00 | | | -48.00 | (\$1,430.40) | |

DO PLAN ERRORS EXCEED 5%? No
DO PLAN ERRORS EXCEED \$5,000? No

DO AUTHORIZED FIELD CHANGES EXCEED \$100.00? Yes

REVISED PLAN QUANTITY 1201

FINAL PAY QUANTITY 1153.00

OK
CP

PLAN QUANTITY ITEM
FINAL PAY WORKSHEET

PROJECT NUMBER: 13010-3531
PROJECT ENGINEER: A. Rosenstein

ITEM NUMBER: A430-11-233
UNIT: LF

DESCRIPTION: 30" RCP
UNIT PRICE: \$39.90

| PLAN QUANTITY | PLAN ERROR | | | | AUTHORIZED FIELD CHANGES | | | | PLAN ERROR / FIELD CHANGE REMARKS |
|---------------|-------------------|----------------|-------------|-----------------------|--------------------------|----------------|--------------------------|-------------------------|-----------------------------------|
| | ORIGINAL QUANTITY | FINAL QUANTITY | PLAN ERRORS | PLAN ERROR DOLLAR AMT | ORIGINAL QUANTITY | FINAL QUANTITY | AUTHORIZED FIELD CHANGES | FIELD CHANGE DOLLAR AMT | |
| 146.00 | | | | | | | | | |
| | | | | | 146.00 | 7.00 | -139.00 | (\$5,546.10) | S-43 (to new S-43-A) |
| | | | | | 0.00 | 12.00 | 12.00 | \$478.80 | New S-40B (to new S-40A) |
| | | | | | 0.00 | 136.00 | 136.00 | \$5,426.40 | New S-43A (to new S-40B) |
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| 146.00 | | | 0.00 | \$0.00 | | | 9.00 | \$359.10 | |

DO PLAN ERRORS EXCEED 5% ? No
DO PLAN ERRORS EXCEED \$5,000 ? No

DO AUTHORIZED FIELD CHANGES EXCEED \$100.00? Yes

REVISED PLAN QUANTITY 146

FINAL PAY QUANTITY 155.00

OK
GM

PLAN QUANTITY ITEM
FINAL PAY WORKSHEET

PROJECT NUMBER: 13010-3531
PROJECT ENGINEER: A. Rosenstein

ITEM NUMBER: A430-710-25
UNIT: LF

DESCRIPTION: 18" Steel culvert
UNIT PRICE: \$32.00

| PLAN ERROR | | | | AUTHORIZED FIELD CHANGES | | | | PLAN ERROR / FIELD CHANGE REMARKS | |
|------------------|----------------------|-------------------|----------------|--------------------------|----------------------|-------------------|-----------------------------|--------------------------------------|-----------------------------|
| PLAN QUANTITY | ORIGINAL QUANTITY | FINAL QUANTITY | PLAN ERRORS | PLAN ERROR DOLLAR AMT | ORIGINAL QUANTITY | FINAL QUANTITY | AUTHORIZED FIELD CHANGES | | FIELD CHANGE DOLLAR AMT |
| 40.00 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | 10.00 | 0.00 | -10.00 | (\$320.00) | SU-2 (eliminated structure) |
| | | | | | 0.00 | 10.00 | 10.00 | \$320.00 | SU-2A (added new structure) |
| | | | | | | | | | |
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| 40.00 | | | 0.00 | \$0.00 | | | 0.00 | \$0.00 | |

DO PLAN ERRORS EXCEED 5%? No
DO PLAN ERRORS EXCEED \$5,000? No

REVISED PLAN QUANTITY 40

DO AUTHORIZED FIELD CHANGES EXCEED \$100.00? No

FINAL PAY QUANTITY 40.00

OK EW

SUMMARY OF DRAINAGE STRUCTURES

STATE PROJ. NO. **13010-3531** SHEET NO. **7A**

| QUANTITY | STR. NO. | STATION | SIDE | DESCRIPTION | SIZE (IN.) | LENGTH (FT.) | STORM SEWER | | | | CURB INLETS | | | | MANHOLE | | | | ADJUST M. H. UTILITY | STEEL PIPE CURVERT LF | REMARKS |
|----------|----------|----------------|------|---------------|------------|--------------|-------------|-----|-----|---------|-------------|---------|-------|---------|---------|---------|-------|---------|----------------------|-----------------------|---|
| | | | | | | | RCP | RCP | RCP | ELCP | P-5 | P-5 | P-6 | P-6 | P-7 | P-7 | J-7 | J-7 | | | |
| | S-43 | 211+40 | LT | INLET PIPE | 30 | 146 | 18" | 24" | 30" | 34"X53" | < 10' | PARTIAL | < 10' | PARTIAL | < 10' | PARTIAL | < 10' | PARTIAL | | | |
| | S-44 | 211+40 | RT | INLET PIPE | 24 | 124 | | 124 | | | | | | | | | | | | | TO MODIFY S-43 BOX TO ACCEPT 50" PIPE TO EAST ADJACENT CHANGE |
| | S-45 | 212+67 | LT | INLET PIPE | 24 | 158 | | 124 | | | | | | | | | | | | | |
| | S-46 | 212+67 | RT | INLET PIPE | 24 | 6 | | 138 | | | | | | | | | | | | | |
| | S-47 | 214+13 | RT | INLET PIPE | 18 | 143 | | 124 | | | | | | | | | | | | | |
| | SU-1 | 192+40 | RT | MANHOLE | | | | 55 | | | | | | | | | | | | | |
| | SU-2 | 192+49 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | |
| | SU-3 | 198+75 | RT | MANHOLE | | | | | | | | | | | | | | | | | |
| | SU-4 | 198+75.67 | RT | MANHOLE, PIPE | 18 | 10 | | 5 | | | | | | | | | | | | | ELIMINATED DUE TO ALIGNMENT CHANGE SEE SU-2A |
| | SU-5 | 201+51 | RT | MANHOLE | | | | 22 | | | | | | | | | | | | | |
| | SU-6 | 203+07 | RT | MANHOLE | | | | | | | | | | | | | | | | | |
| | SU-7 | 205+55 | RT | MANHOLE | | | | | | | | | | | | | | | | | |
| | SU-8 | 205+72 | RT | MANHOLE | | | | | | | | | | | | | | | | | |
| | SU-9 | 209+75 | RT | MANHOLE | | | | | | | | | | | | | | | | | |
| | SU-10 | 209+98.31 | RT | MANHOLE, PIPE | 18 | 10 | | 6 | | | | | | | | | | | | | |
| | SU-11 | 212+20 | RT | MANHOLE | | | | 26 | | | | | | | | | | | | | |
| | SU-12 | 212+67 | RT | MANHOLE, PIPE | 18 | 10 | | | | | | | | | | | | | | | |
| | SU-13 | 214+72.5 | RT | MANHOLE | | | | 17 | | | | | | | | | | | | | |
| | S-2A | 192+25 | RT | INLET PIPE | | | | 0 | | | | | | | | | | | | | |
| | S-2B | 192+22 | RT | M.H. PIPE | | | | 12 | | | | | | | | | | | | | |
| | S-6A | 301+55 | LT | INLET PIPE | | | | 0 | | | | | | | | | | | | | |
| | S-12A | 198+98 | LT | M.H. PIPE | | | | 7 | | | | | | | | | | | | | |
| | S-15A | 199+00 | LT | INLET | | | | 10 | | | | | | | | | | | | | |
| | S-21A | 201+50 | LT | M.H. | | | | | | | | | | | | | | | | | |
| | S-24A | 205+39 | LT | M.H. | | | | | | | | | | | | | | | | | |
| | S-30A | 209+97 | LT | M.H. | | | | | | | | | | | | | | | | | |
| | S-40B | 209+99 | LT | M.H. PIPE | | | | 0 | | | | | | | | | | | | | |
| | S-13A | 211+45 | LT | M.H. PIPE | | | | 12 | | | | | | | | | | | | | |
| | S-35A | 212+67 | LT | M.H. PIPE | | | | | | | | | | | | | | | | | |
| | SU-2A | 201+47(4th ST) | LT | INLET PIPE | | | | 13 | | | | | | | | | | | | | |
| | SU-7A | 205+55 | LT | M.H. | | | | 6 | | | | | | | | | | | | | |
| | SU-1A | 192+43 | LT | M.H. | | | | | | | | | | | | | | | | | |

7/13/95, 11/24/1996

SUB-TOTAL THIS SHEET ONLY

REVISIONS DATED 11/20/95

APPROVED BY: *[Signature]*

DATE: 5/13/95

P.E. NO.: 18495

| TOTALS | | P-PLAN QUANTITY | F-FINAL QUANTITY | P-PLAN QUANTITY | F-FINAL QUANTITY |
|--------|-----|-----------------|------------------|-----------------|------------------|
| 143 | 288 | 146 | 0 | 2 | 0 |
| 146 | 312 | 155 | 0 | 2 | 1 |
| 1201 | 323 | 146 | 32 | 15 | 2 |
| 1153 | 312 | 155 | 0 | 14 | 2 |

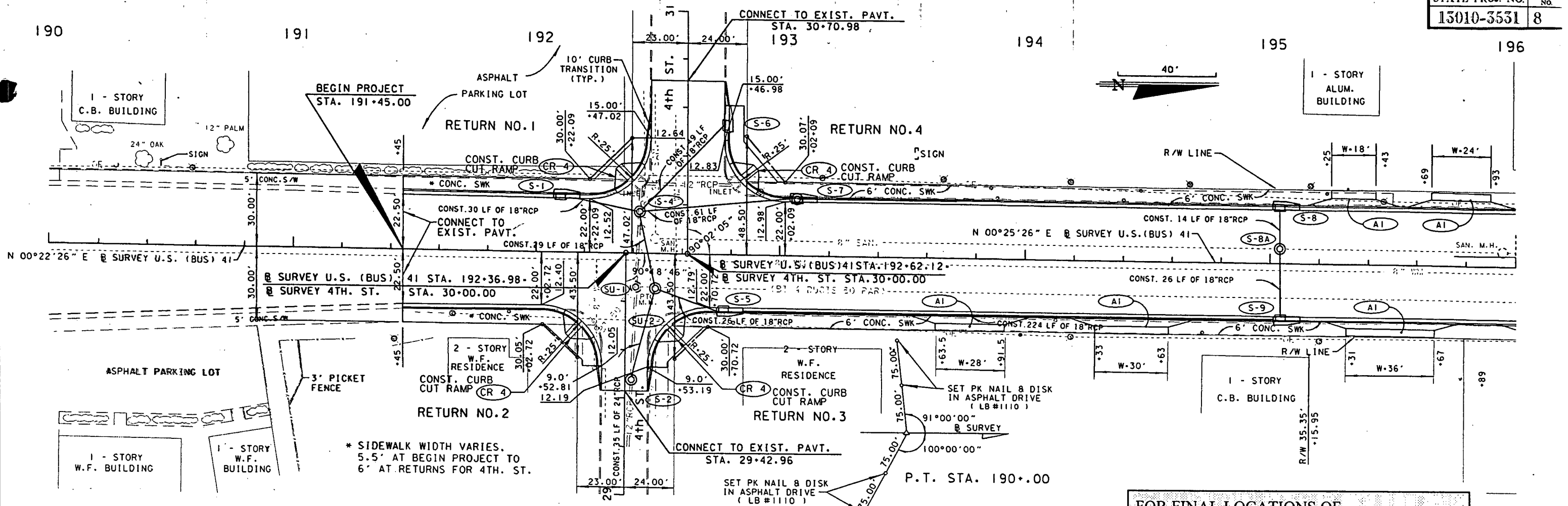
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|----------|-----|-----------------------------------|---------|-----|----------------------|------|----|-------------|------|----|-------------|
| 11/20/95 | BCM | CHANGE TOTAL FOR 18" RCP TO 1188. | 7/17/96 | CEC | REVISED SHEET NUMBER | | | | | | |
| | | | | | REVISED STORM SEWER | | | | | | |
| | | | | | PIPE HEADINGS | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

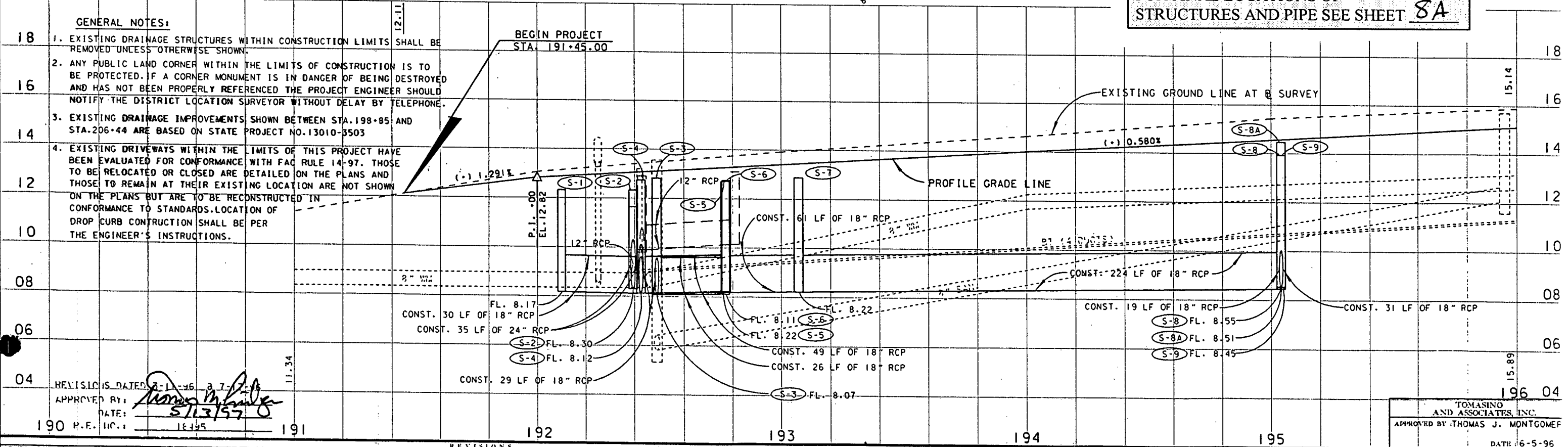
TOMASINO AND ASSOCIATES, INC.

SUMMARY OF DRAINAGE STRUCTURES

S-43
S-44
S-45
S-46
S-47
SU-1
SU-2
SU-3
SU-4
SU-5
SU-6
SU-7
SU-8
SU-9
SU-10
SU-11
SU-12
SU-13
S-2A
S-2B
S-6A
S-12A
S-13A
S-27A
S-28A
S-40A
S-40B
S-43A
S-45A
SU-2A
SU-7A
SU-7A
SU-1A



FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 8A

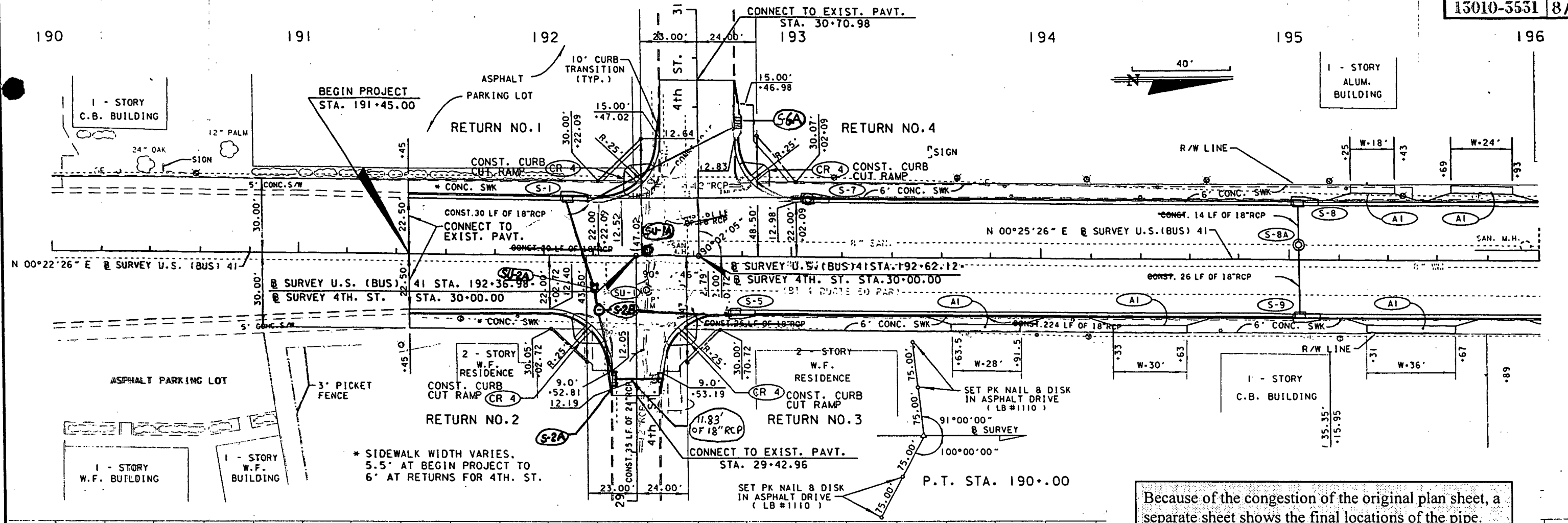


- GENERAL NOTES:**
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE SHOWN.
 - ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
 - EXISTING DRAINAGE IMPROVEMENTS SHOWN BETWEEN STA. 198+85 AND STA. 206+44 ARE BASED ON STATE PROJECT NO. 13010-3503
 - EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT HAVE BEEN EVALUATED FOR CONFORMANCE WITH FAC RULE 14-97. THOSE TO BE RELOCATED OR CLOSED ARE DETAILED ON THE PLANS AND THOSE TO REMAIN AT THEIR EXISTING LOCATION ARE NOT SHOWN ON THE PLANS BUT ARE TO BE RECONSTRUCTED IN CONFORMANCE TO STANDARDS. LOCATION OF DROP CURB CONSTRUCTION SHALL BE PER THE ENGINEER'S INSTRUCTIONS.

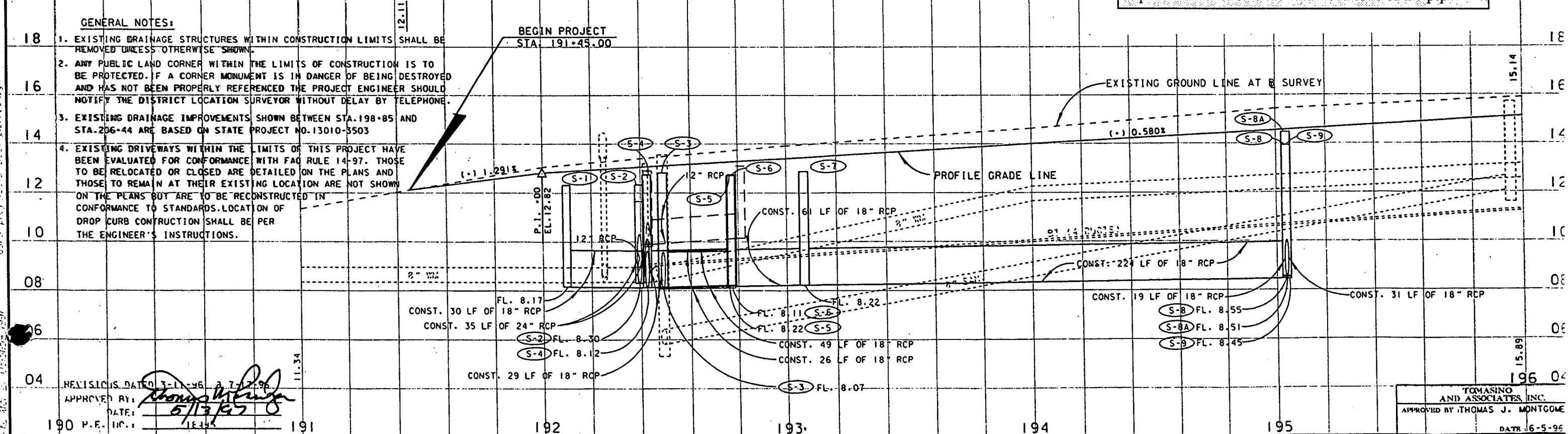
REVISIONS DATED 3-1-96 BY 7-1-96
 APPROVED BY: *[Signature]*
 DATE: 5/13/97

TOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 6-5-96

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|--------------------------------------|---------|-----|---|
| 3/11/96 | BCM | REMOVE POTENTIAL CONTAMINATED SYMBOL | 7/17/96 | GEC | ADDED SU-1 & SU-2 AND REMOVED S-3 |
| 3/11/96 | BCM | REMOVED LT. TURN LANE AT 5TH ST. | 7/17/96 | GEC | ADDED D/W'S AT 194+00 & 194+30 RT. REVISED D/W SIZE 195+50 RT. REVISED D/W'S TO TYPE A1 |



Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.

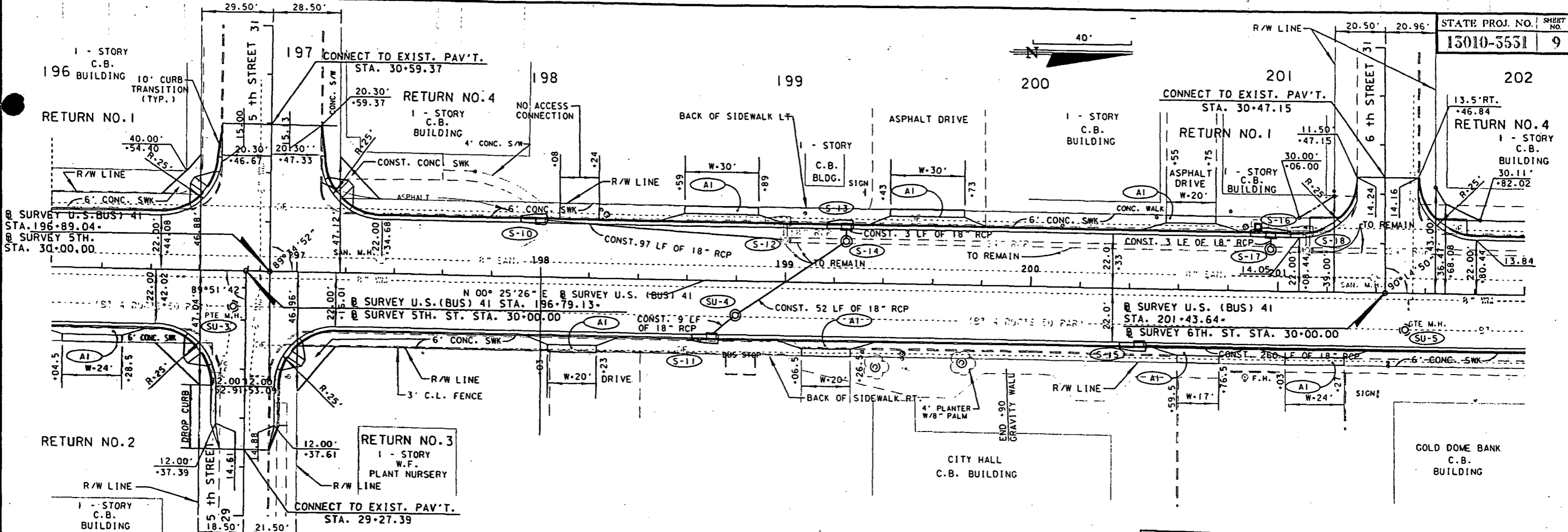


- GENERAL NOTES:**
- EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE SHOWN.
 - ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED THE PROJECT ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR WITHOUT DELAY BY TELEPHONE.
 - EXISTING DRAINAGE IMPROVEMENTS SHOWN BETWEEN STA. 198+85 AND STA. 206+44 ARE BASED ON STATE PROJECT NO. 13010-3503
 - EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT HAVE BEEN EVALUATED FOR CONFORMANCE WITH FAC RULE 14-97. THOSE TO BE RELOCATED OR CLOSED ARE DETAILED ON THE PLANS AND THOSE TO REMAIN AT THEIR EXISTING LOCATION ARE NOT SHOWN ON THE PLANS BUT ARE TO BE RECONSTRUCTED IN CONFORMANCE TO STANDARDS. LOCATION OF DROP CURB CONSTRUCTION SHALL BE PER THE ENGINEER'S INSTRUCTIONS.

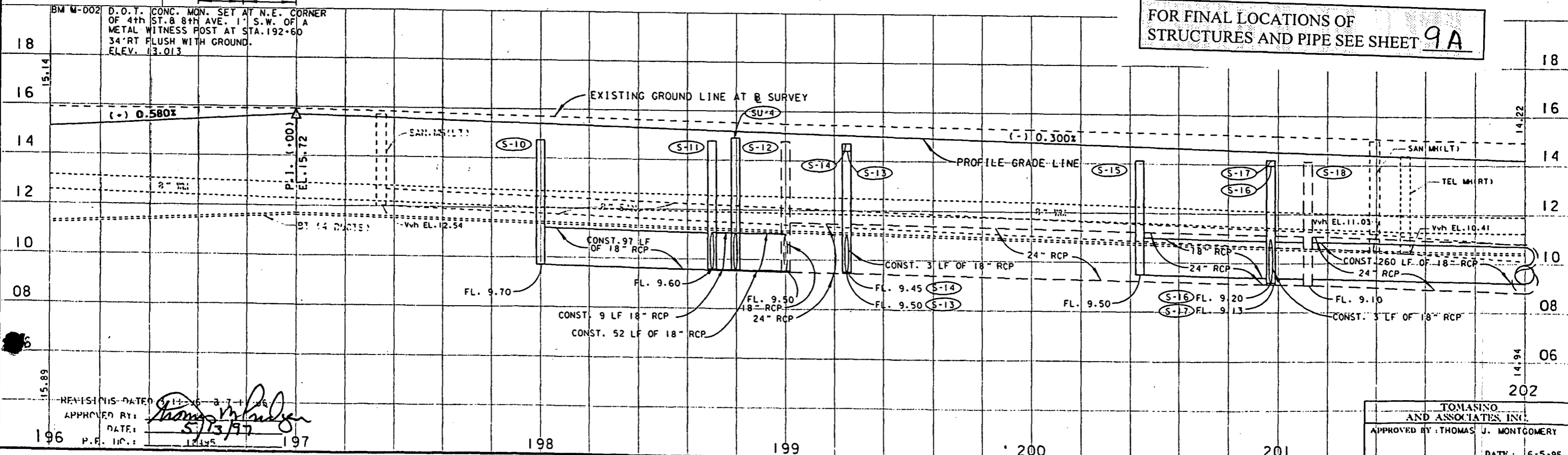
REVISIONS DATED 3-11-96 & 7-17-96
 APPROVED BY: *[Signature]*
 DATE: 5/13/97

TOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOME
 DATE: 6-5-96

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|--------------------------------------|---------|-----|-----------------------------------|---------|-----|---|
| 3/11/96 | BCM | REMOVE POTENTIAL CONTAMINATED SYMBOL | 7/17/96 | GEC | ADDED SU-1 & SU-2 AND REMOVED S-3 | 7/17/96 | GEC | ADDED D/W'S AT 194+00 & 194+30 RT. REVISED D/W SIZE 195-50 RT. REVISED D/W'S TO TYPE A1 |
| 3/11/96 | BCM | REMOVED LT. TURN LANE AT 5TH ST. | | | REVISED SHEET NUMBER | | | |



FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 9A



REVISIONS DATED 7/11/96 BY 3-7-1-96
 APPROVED BY: *Thomas J. Montgomery*
 DATE: 5/13/97
 P.F. NO.: 1845

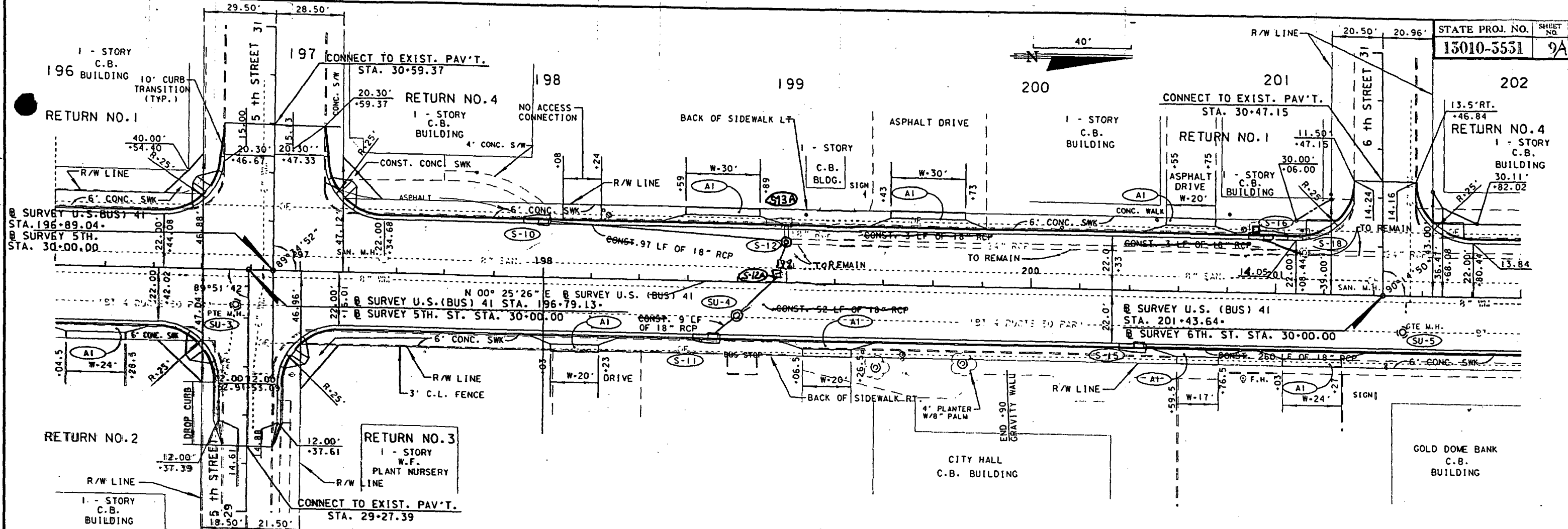
TOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 6-5-95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|--------------------------------------|---------|-----|--|---------|-----|--|
| 3/11/96 | BCM | REMOVE POTENTIAL CONTAMINATED SYMBOL | 7/11/96 | GEC | ADDED UTIL. STR'S. SU-2 & 3 | 7/11/96 | GEC | ADDED D/W'S AT 199-10 RT. & 201-15 RT. |
| 3/11/96 | BCM | REMOVED LT. TURN LANE AT 5TH ST. | 7/11/96 | GEC | ADDED D/W'S AT 199-10 RT. & 200-60 LT. | 7/11/96 | GEC | REVISED TURNOUT TYPES TO AI |
| | | | 7/11/96 | GEC | REVISED STR'S & PIPE. S-11A TO SU-4 | 7/11/96 | GEC | REVISED D/W LT. OF 198-89 |
| | | | 7/11/96 | GEC | MOVED BUS STOP DETAIL TO SHEET 9 | 7/11/96 | GEC | REVISED SHEET NUMBER |
| | | | | | REMOVED GRAVITY WALL | | | |

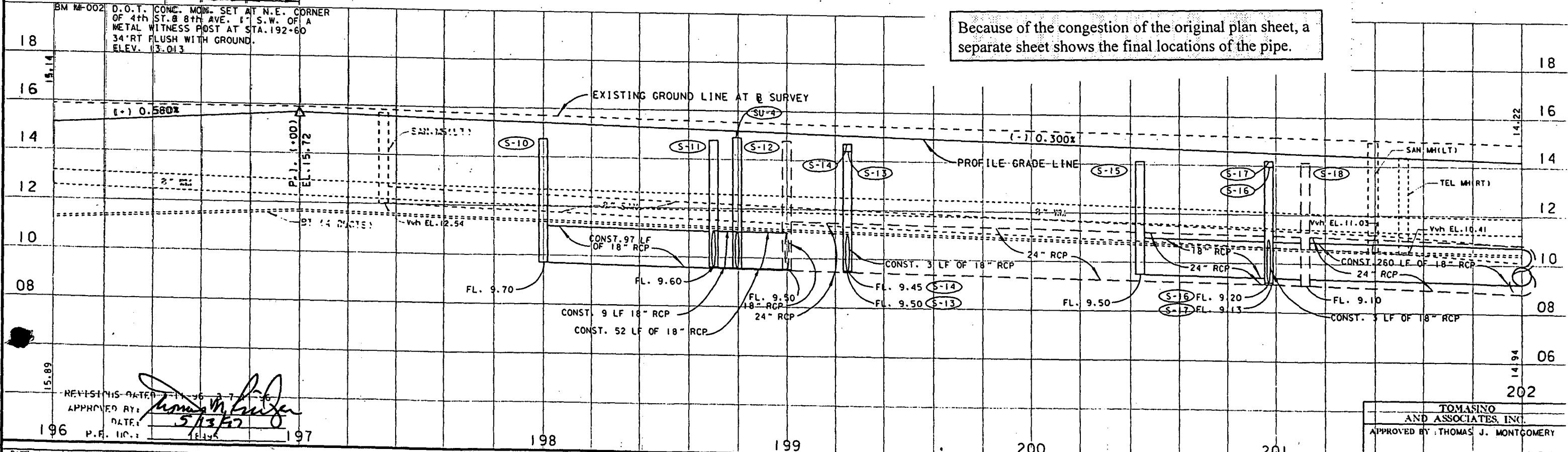
FLORIDA DEPARTMENT OF TRANSPORTATION



PLAN / PROFILE



Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.



REVISED DATE: 5/13/97
 APPROVED BY: *[Signature]*
 DATE: 5/13/97

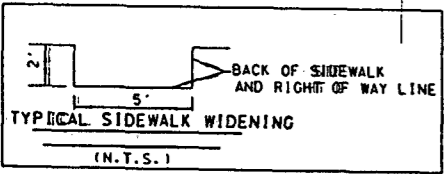
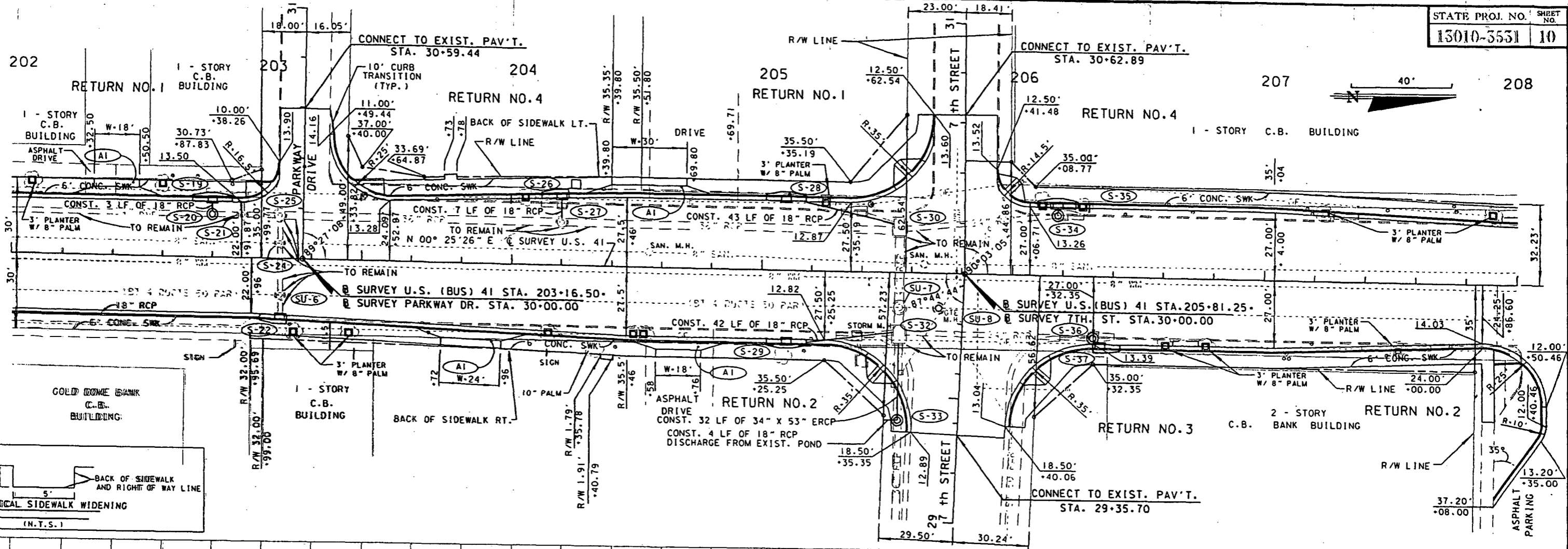
TOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 6-5-95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|----------------------------------|---------|-----|--|---------|-----|--|
| 3/11/96 | BCM | REMOVE POTENTIAL CONTAMINATED | 7/11/96 | GEC | ADDED UTIL. STR'S SU-2 & 3 | 7/11/96 | GEC | ADDED D/W'S AT 199+10 RT. & 201+15 RT. |
| 3/11/96 | BCM | REMOVED LT. TURN LANE AT 5TH ST. | 7/11/96 | GEC | ADDED D/W'S AT 198+10 LT. & 200+60 LT. | 7/11/96 | GEC | REVISED TURNOUT TYPES TO A1 |
| | | | | | | 7/11/96 | GEC | REVISED STR'S & PIPE, S-11A TO SU-4 |
| | | | | | | 7/11/96 | GEC | REMOVED GRAVITY WALL |
| | | | | | | 7/11/96 | GEC | MOVED BUS STOP DETAIL TO SHEET 9 |
| | | | | | | | | REVISED SHEET NUMBER |

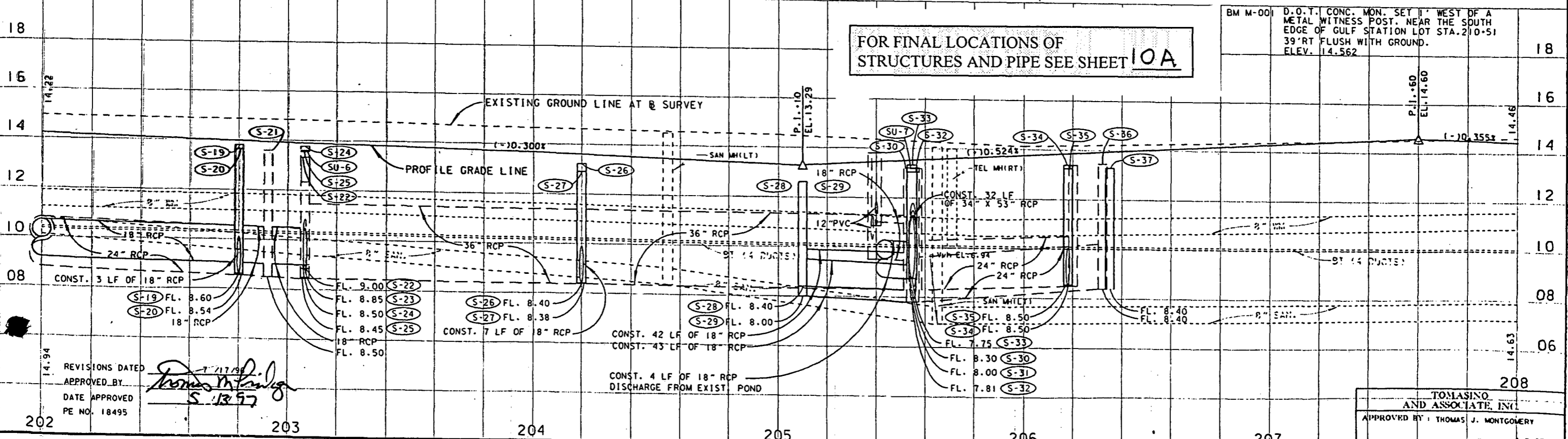
FLORIDA DEPARTMENT OF TRANSPORTATION



PLAN / PROFILE



FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 10A



BM M-001 D.O.T. CONC. MON. SET 1' WEST OF A METAL WITNESS POST. NEAR THE SOUTH EDGE OF GULF STATION LOT STA. 210+51 39' RT FLUSH WITH GROUND. ELEV. 14.562

REVISIONS DATED 7-19-96
 APPROVED BY: *Thomas J. Montgomery*
 DATE APPROVED 5-13-97
 PE NO. 18495

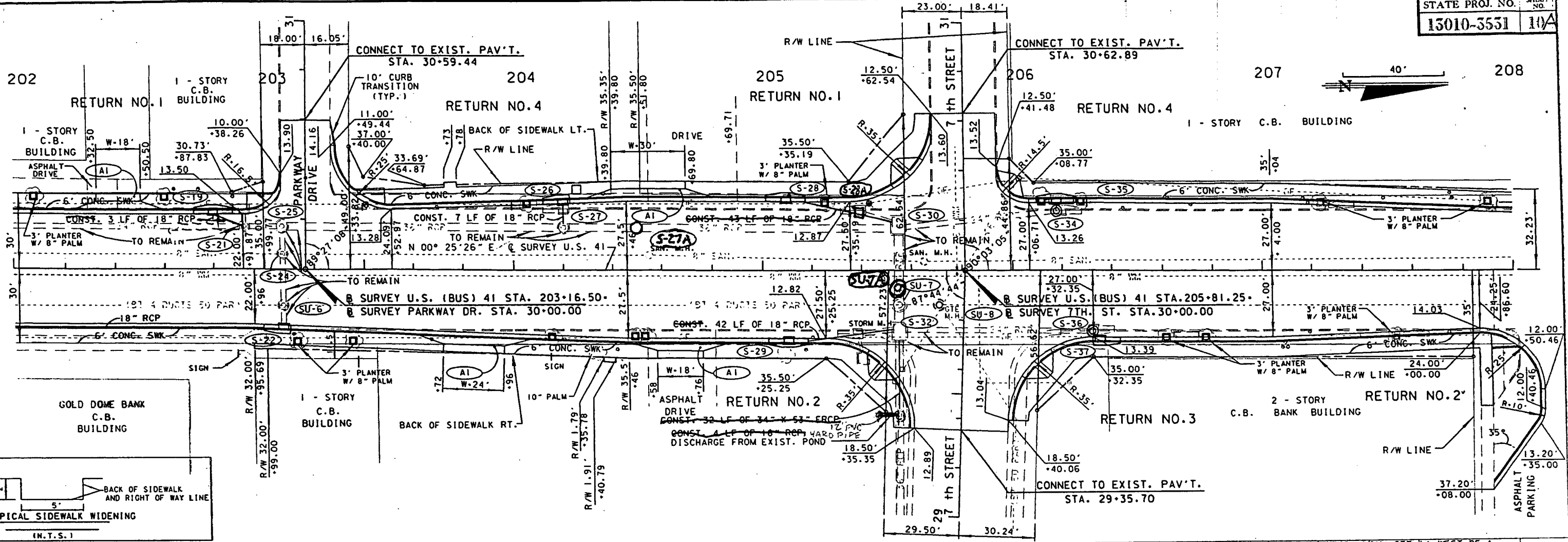
TOMASINO AND ASSOCIATE, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 5-5-95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|---|---------|-----|---|---------|-----|--|
| 7-19-96 | GEC | REVISED S-23 TO SU-6 REVISED S-31 TO SU-7 REVISED TURNOUT TYPES TO A1 | 7-19-96 | GEC | REVISED STR'S S-23 TO SU-6 REVISED STR'S S-31 TO SU-7 AND ADDED STRUCTURES SU-8 | 7-19-96 | GEC | REMOVED GRAVITY WALL REVISED STR'S S-23 TO SU-6 REVISED SHEET NUMBER |
| | | | | | | | | REVISED R/W NE CORNER OF 7TH ST. |

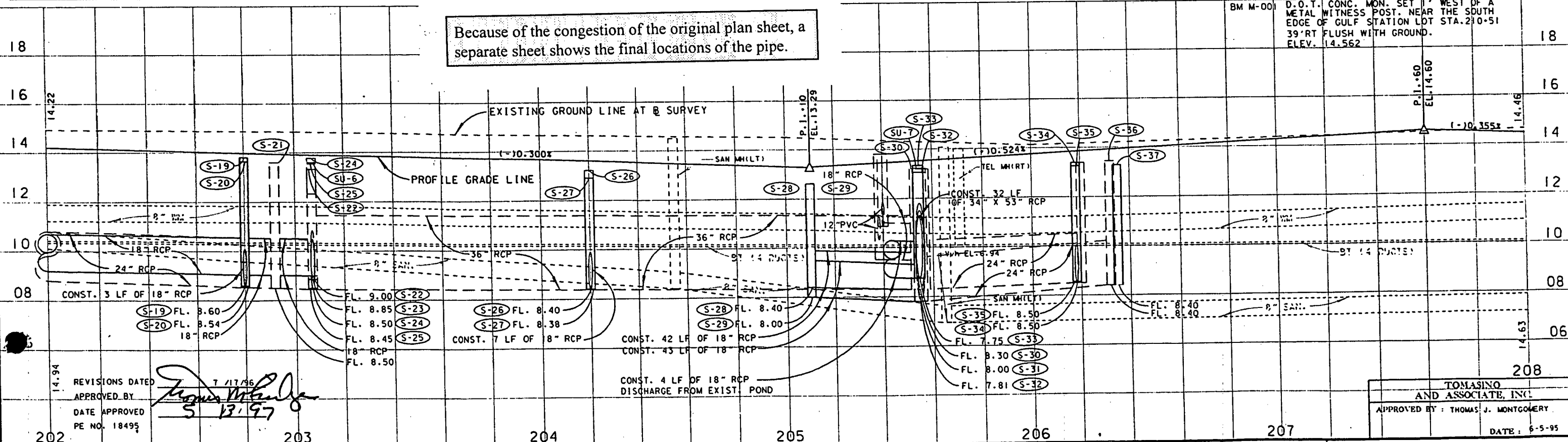
FLORIDA DEPARTMENT OF TRANSPORTATION



PLAN / PROFILE



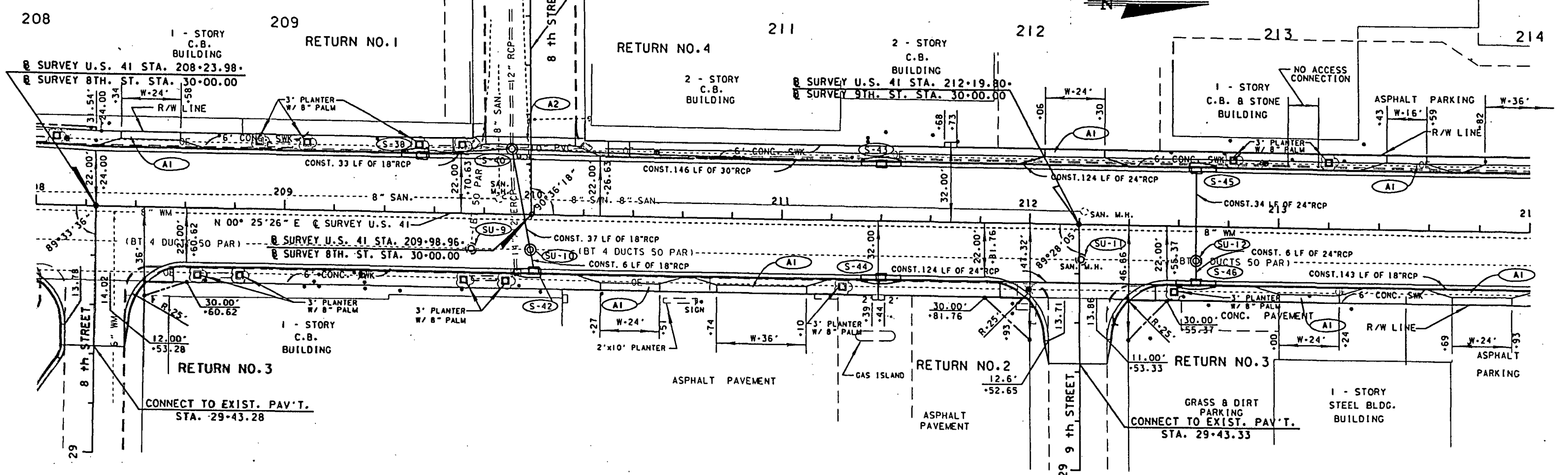
Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.



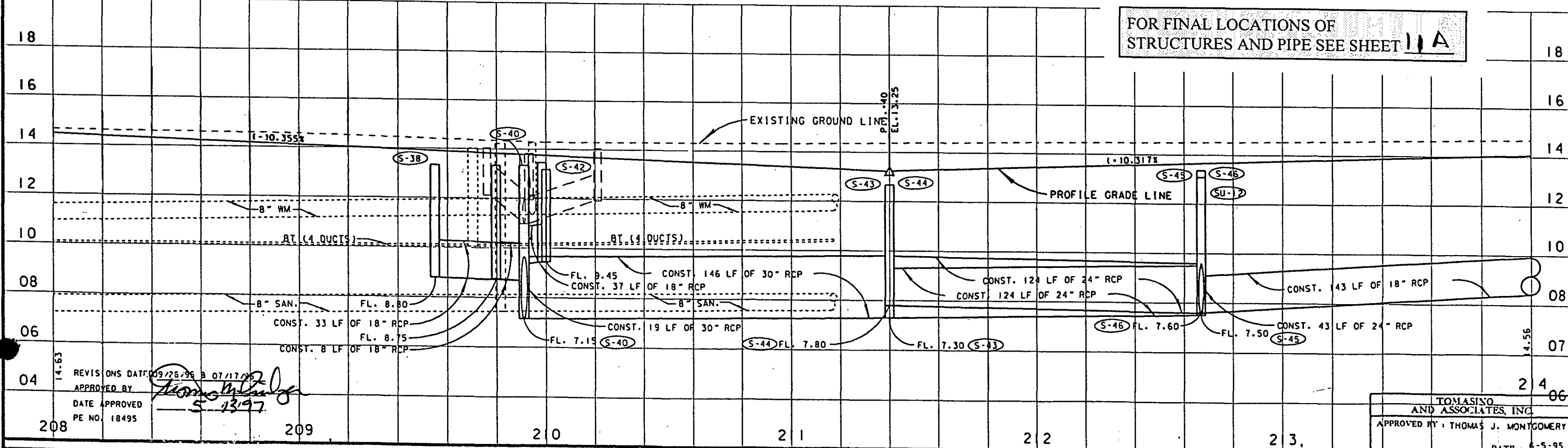
REVISIONS DATED 7/17/96
 APPROVED BY *[Signature]*
 DATE APPROVED 5/13/97
 PE NO. 18495

TOMASINO AND ASSOCIATE, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 6-5-95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|---|---------|-----|---|---------|-----|--|---------|-----|----------------------------------|
| 7-19-96 | GEC | REVISED S-23 TO SU-6 REVISED S-31 TO SU-7 REVISED TURNOUT TYPES TO A1 | 7-19-96 | GEC | REVISED STR'S S-23 TO SU-6 REVISED STR'S S-31 TO SU-7 AND ADDED STRUCTURES SU-8 | 7-19-96 | GEC | REMOVED GRAVITY WALL REVISED STR'S S-23 TO SU-6 REVISED SHEET NUMBER | 7-19-96 | GEC | REVISED R/W NE CORNER OF 7TH ST. |



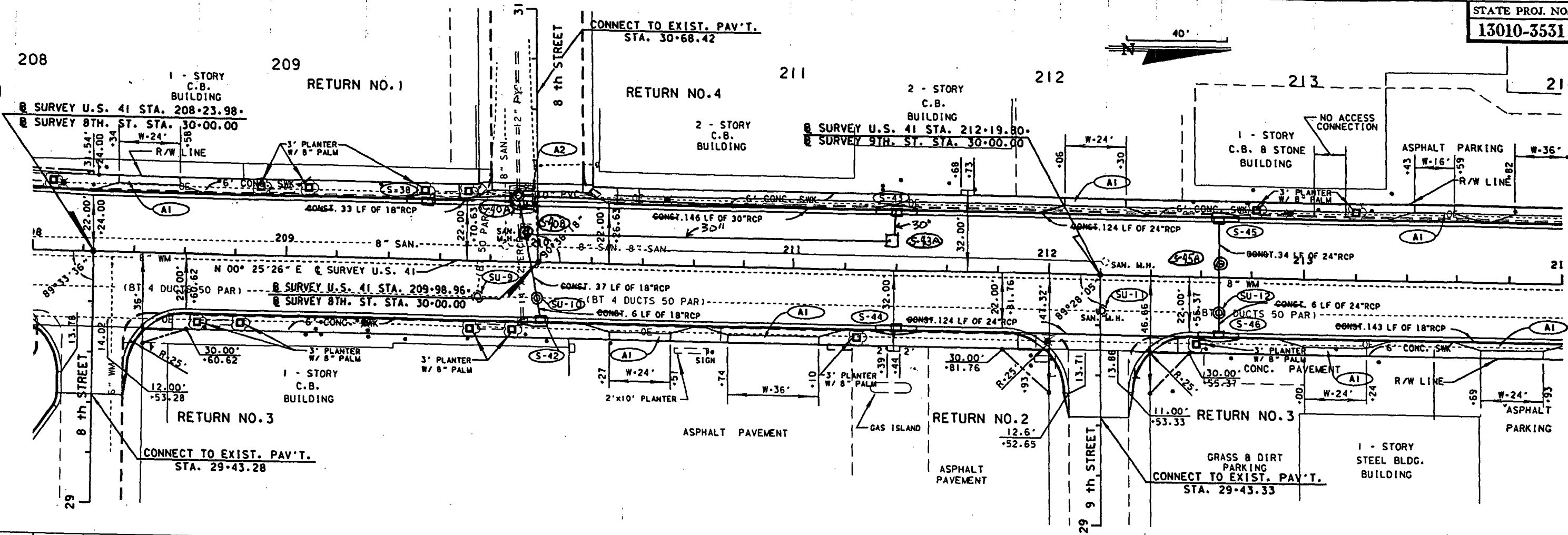
FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 11A



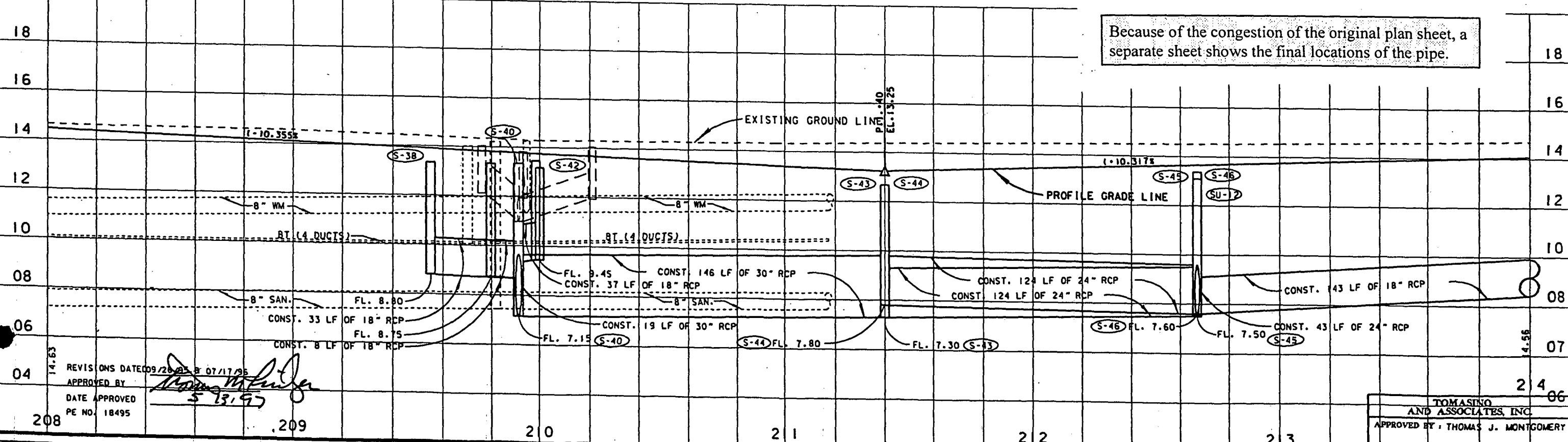
REVISIONS DATE: 09/28/95 BY: [Signature]
 APPROVED BY: [Signature]
 DATE APPROVED: 5-13-97
 PE NO. 18495

TOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 6-5-95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|---|---------|-----|--------------------------------------|---------|-----|--|---------|-----|--|
| 9-26-95 | GEC | REVISED 8TH ST. RETURN BY ADDING DRIVEWAY CONNECTION. | 9-26-95 | GEC | REMOVED DRAINAGE STR'S. S-39 & S-41. | 7-17-96 | GEC | ADDED STR'S. SU-9, SU-10, SU-11 & SU-12. REVISED PIPE LENGTH AT S-46 | 7-17-96 | GEC | ADDED 6" PIPE LENGTH TO S-42. ADDED D/M'S AT 208+40 LT., 213+50 LT. 210+15 RT. |
| | | | | | | | | | | | ADDED D/M'S AT 213+05 RT. & 213+90 RT. REVISED SHEET NUMBER |



Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.



| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|---|---------|-----|--------------------------------------|---------|-----|---|---------|-----|--|
| 9-26-95 | GEC | REVISED 8TH ST. RETURN BY ADDING DRIVEWAY CONNECTION. | 9-26-95 | GEC | REMOVED DRAINAGE STR'S. S-39 & S-41. | 7-17-96 | GEC | ADDED STR'S. SU-9, SU-10, SU-11 & SU-12 | 7-17-96 | GEC | ADDED 6' PIPE LENGTH TO S-42 |
| | | | | | | | | REVISED PIPE LENGTH AT S-46 | | | ADDED D/W'S AT 213+05 RT. & 213+90 RT. |
| | | | | | | | | | | | REVISED SHEET NUMBER |

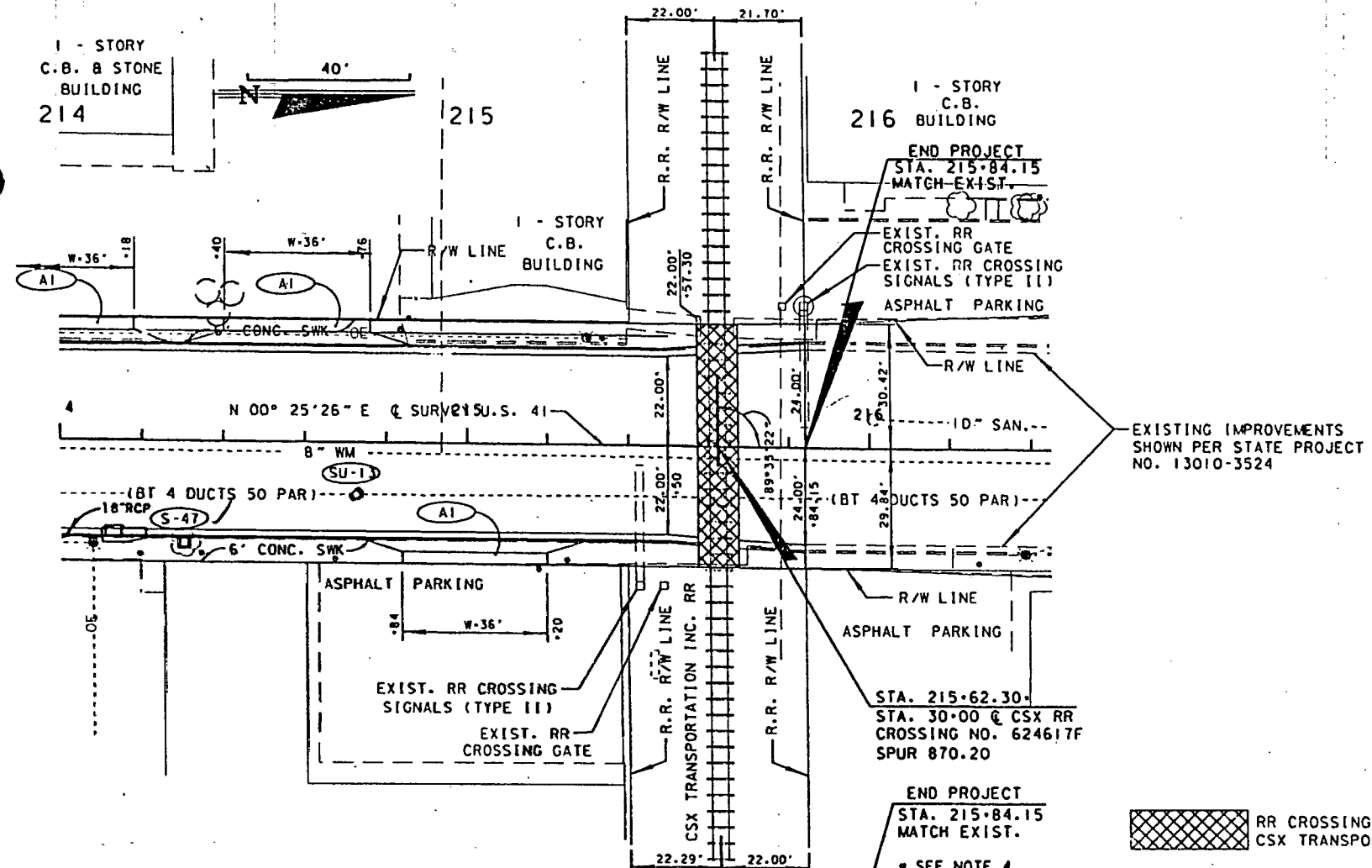
FLORIDA DEPARTMENT OF TRANSPORTATION



PLAN / PROFILE

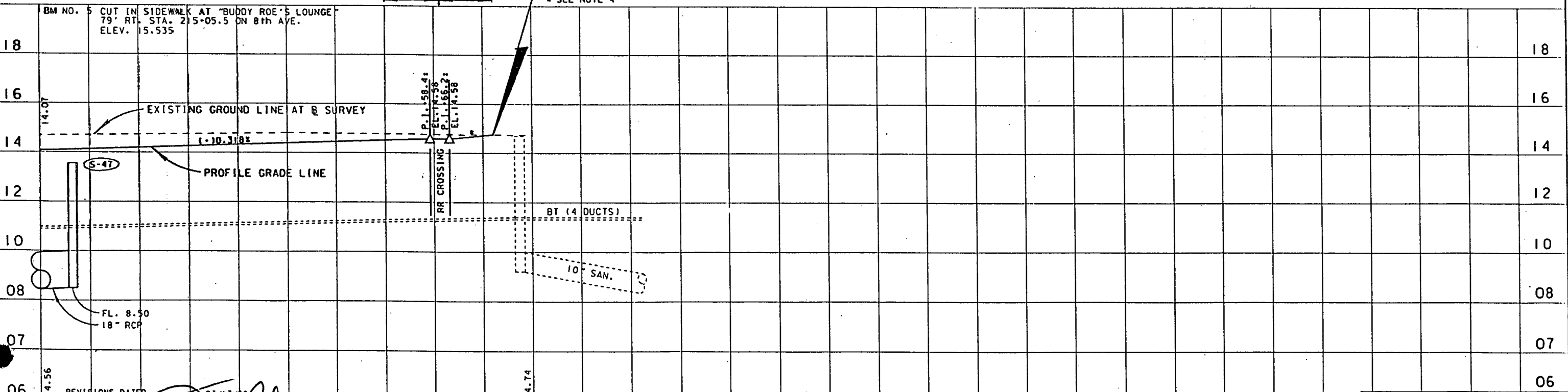
TOMASINO AND ASSOCIATES, INC.
APPROVED BY: THOMAS J. MONTGOMERY
DATE: 6-5-95

FILE: f:\wsg1\pbl\q3\436363\99999\p1\prr04.dgn



RR CROSSING NOTES

- CROSSING SHALL BE INSTALLED PER INDEX 560. THE RAILROAD COMPANY WILL FURNISH AND INSTALL ALL MATERIALS WITHIN 5' OF \mathcal{C} OF TRACKS.
- ALL OTHER ASPHALT, ASPHALT WORK, DENSITY, GRADING AND MAINTENANCE OF TRAFFIC CONCERNING THE CONSTRUCTION OF THE AT GRADE RR CROSSING AND PROVISION OF RAILROAD LIABILITY INSURANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COST FOR ALL WORK ASSOCIATED WITH THE CROSSING SHALL BE INCLUDED IN THE VARIOUS ITEMS ASSOCIATED WITH THE ROADWAY WORK (e.g., L.S. MOT. ASPHALT, BASE, ETC.)
- DOWNSTATION OF THE CROSSING THE PAVEMENT CROSS SLOPE SHALL BE REMOVED WITHIN A 50' TRANSITION TO ALLOW FOR MATCHING THE GRADE AT THE CROSSING.
- UPSTATION OF THE CROSSING THE PAVEMENT CROSS SLOPE SHALL BE TRANSITIONED AS DIRECTED BY THE PROJECT ENGINEER TO MATCH THE CROSSING AND EXISTING ROADWAY AND GUTTER GRADES.



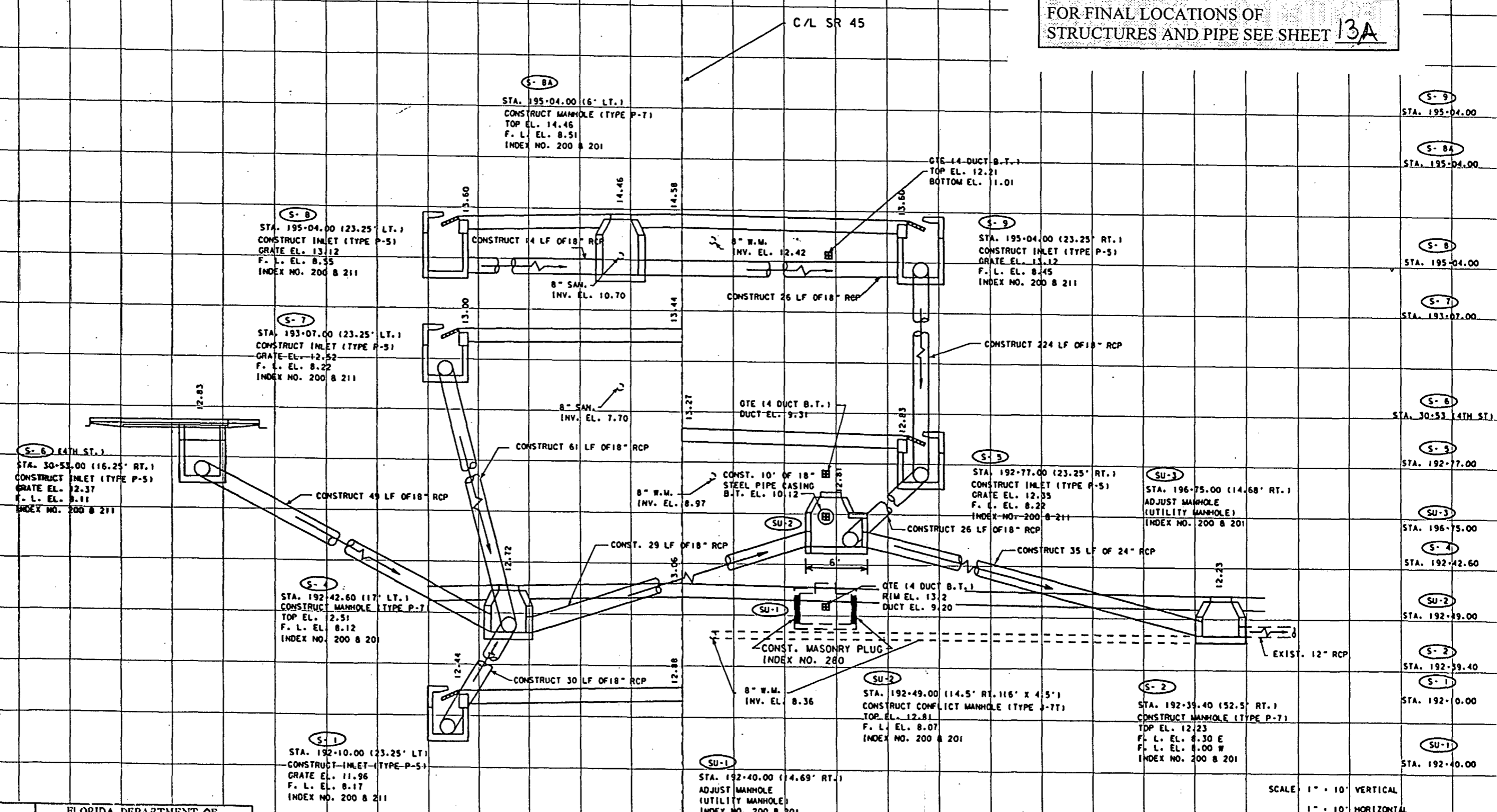
REVISIONS DATED 07/17/96
 APPROVED BY *[Signature]*
 DATE APPROVED 5-13-97
 PE NO. 18495

THOMASINO AND ASSOCIATES, INC.
 APPROVED BY: THOMAS J. MONTGOMERY
 DATE: 5-5-95

7/17/96 11:41:55 1996 /usr3/proj/13010/3531/dbrcc05.dgn

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|----------------------|------|----|-------------|------|----|-------------|------|----|-------------|
| 7-17-96 | CEC | ADDED SU-13 | | | | | | | | | |
| 7/17/96 | REC | REVISED SHEET NUMBER | | | | | | | | | |

FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 13A



S-6 (4TH ST.)
STA. 30-53.00 (16.25' RT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 12.37
F. L. EL. 8.11
INDEX NO. 200 & 211

S-8
STA. 195-04.00 (23.25' LT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 13.12
F. L. EL. 8.55
INDEX NO. 200 & 211

S-7
STA. 193-07.00 (23.25' LT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 12.52
F. L. EL. 8.22
INDEX NO. 200 & 211

S-4
STA. 192-42.60 (17' LT.)
CONSTRUCT MANHOLE (TYPE P-7)
TOP EL. 2.51
F. L. EL. 8.12
INDEX NO. 200 & 201

S-1
STA. 192-10.00 (23.25' LT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 11.96
F. L. EL. 8.17
INDEX NO. 200 & 211

S-8A
STA. 195-04.00 (16' LT.)
CONSTRUCT MANHOLE (TYPE P-7)
TOP EL. 14.46
F. L. EL. 8.51
INDEX NO. 200 & 201

S-9
STA. 195-04.00 (23.25' RT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 13.12
F. L. EL. 8.45
INDEX NO. 200 & 211

S-3
STA. 192-77.00 (23.25' RT.)
CONSTRUCT INLET (TYPE P-5)
GRATE EL. 12.35
F. L. EL. 8.22
INDEX NO. 200 & 211

SU-3
STA. 196-75.00 (14.68' RT.)
ADJUST MANHOLE (UTILITY MANHOLE)
INDEX NO. 200 & 201

SU-1
STA. 192-40.00 (14.69' RT.)
ADJUST MANHOLE (UTILITY MANHOLE)
INDEX NO. 200 & 201

SU-2
STA. 192-49.00 (14.5' RT. 116' X 4.5')
CONSTRUCT CONFLICT MANHOLE (TYPE J-7T)
TOP EL. 12.81
F. L. EL. 8.07
INDEX NO. 200 & 201

S-2
STA. 192-39.40 (52.5' RT.)
CONSTRUCT MANHOLE (TYPE P-7)
TOP EL. 12.23
F. L. EL. 8.30 E
F. L. EL. 8.00 W
INDEX NO. 200 & 201

Note: Special attention is directed to the fact that portions of some drainage structures extend into the stabilized portion of the road bed and extreme caution will be necessary in stabilization operations at these locations.

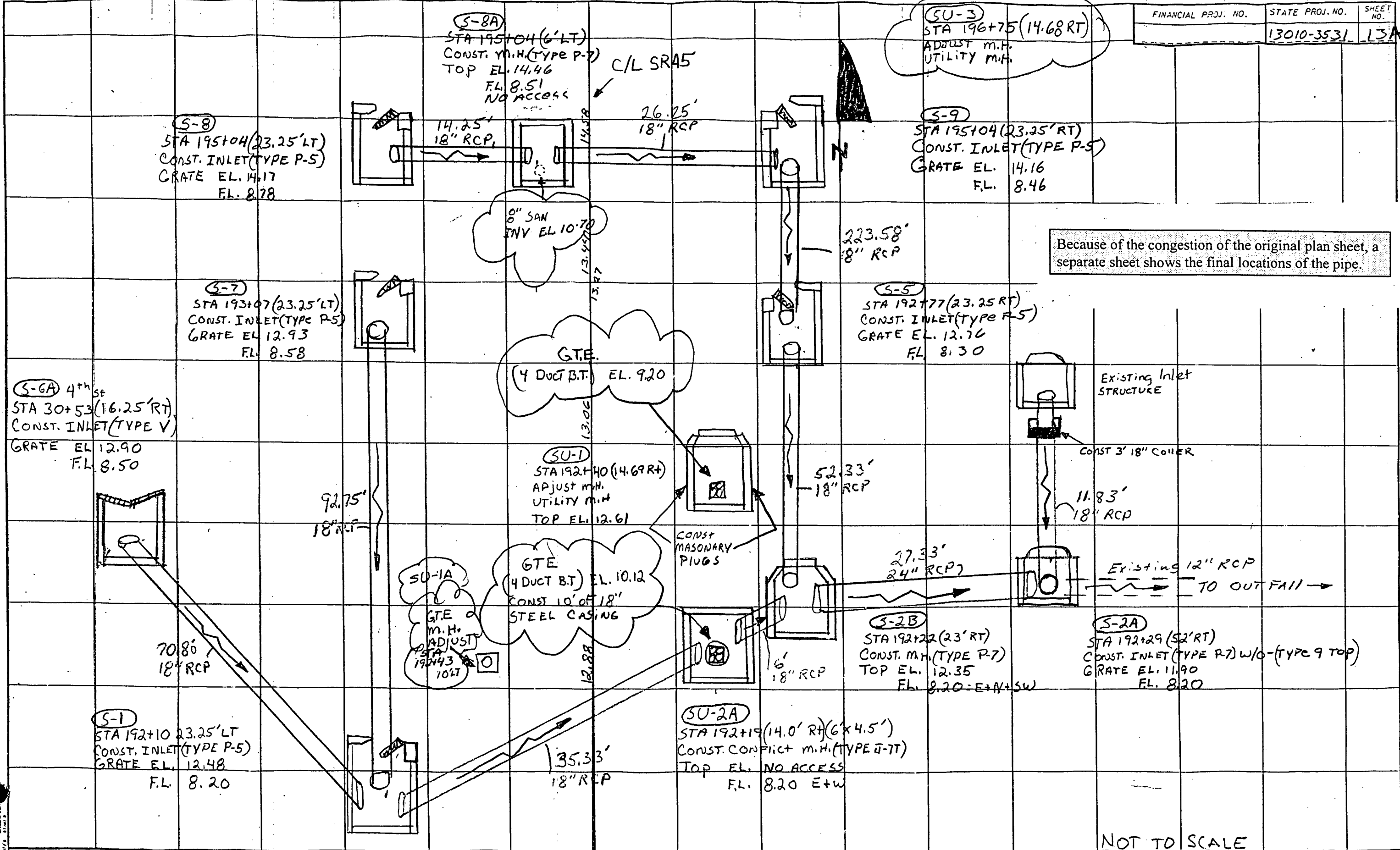
SCALE: 1" = 10' VERTICAL
1" = 10' HORIZONTAL

Wed Nov 13 12:01:53 1996 /usr31/proj/13010/3531/drsred20.dgn

DESIGNED BY: GEC DATE: 5-25-95
DRAWN BY: GEC DATE: 5-25-95
CHECKED BY: TMP DATE: 5-26-95

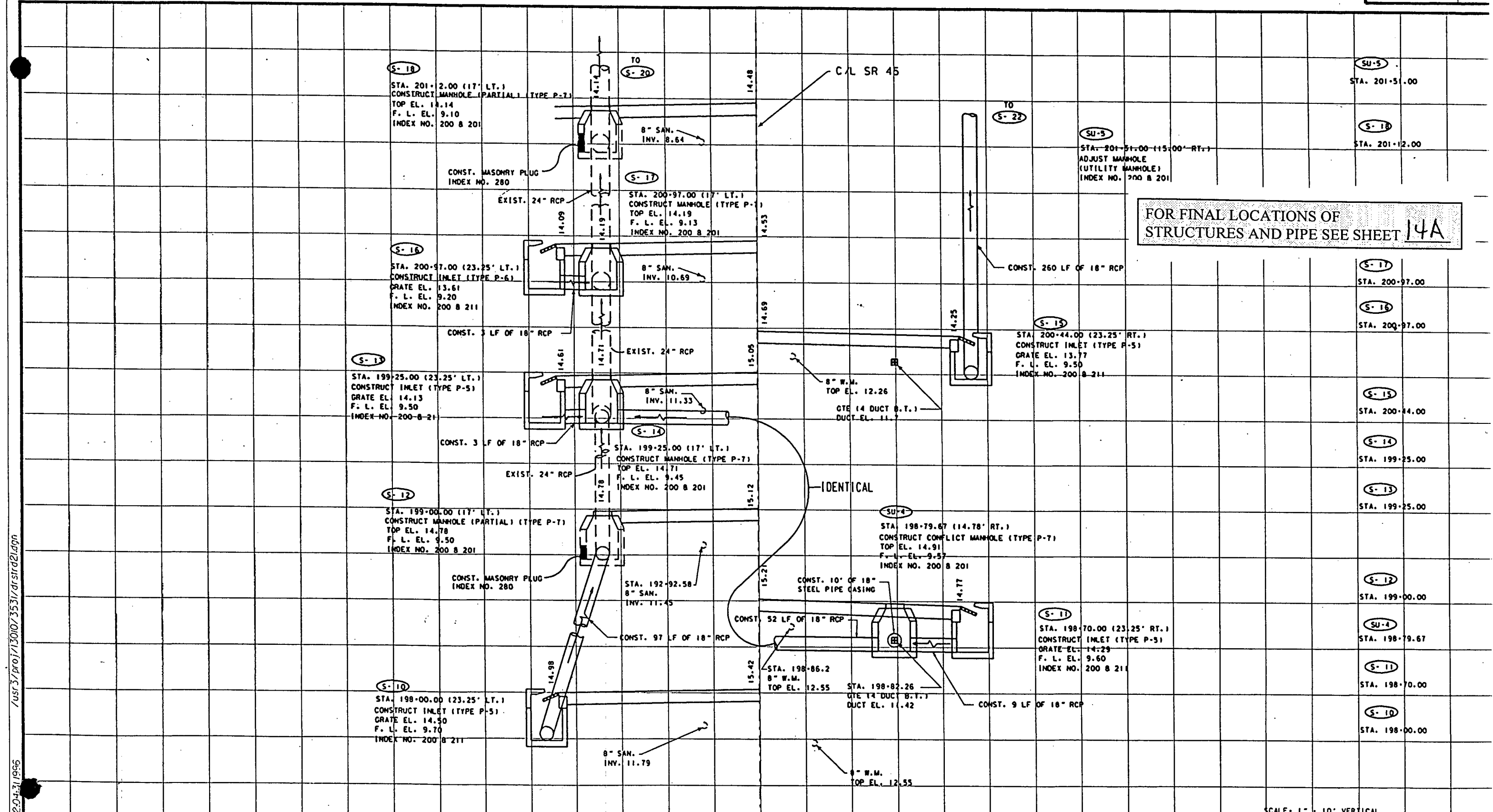
FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *[Signature]*
DATE: 5/13/95

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| 7/15/83 | CB | | | | | | | | | | |

Wed Nov 13 12:04:31 1996 /usr3/proj/13010/3531/dtstrd21.dgn



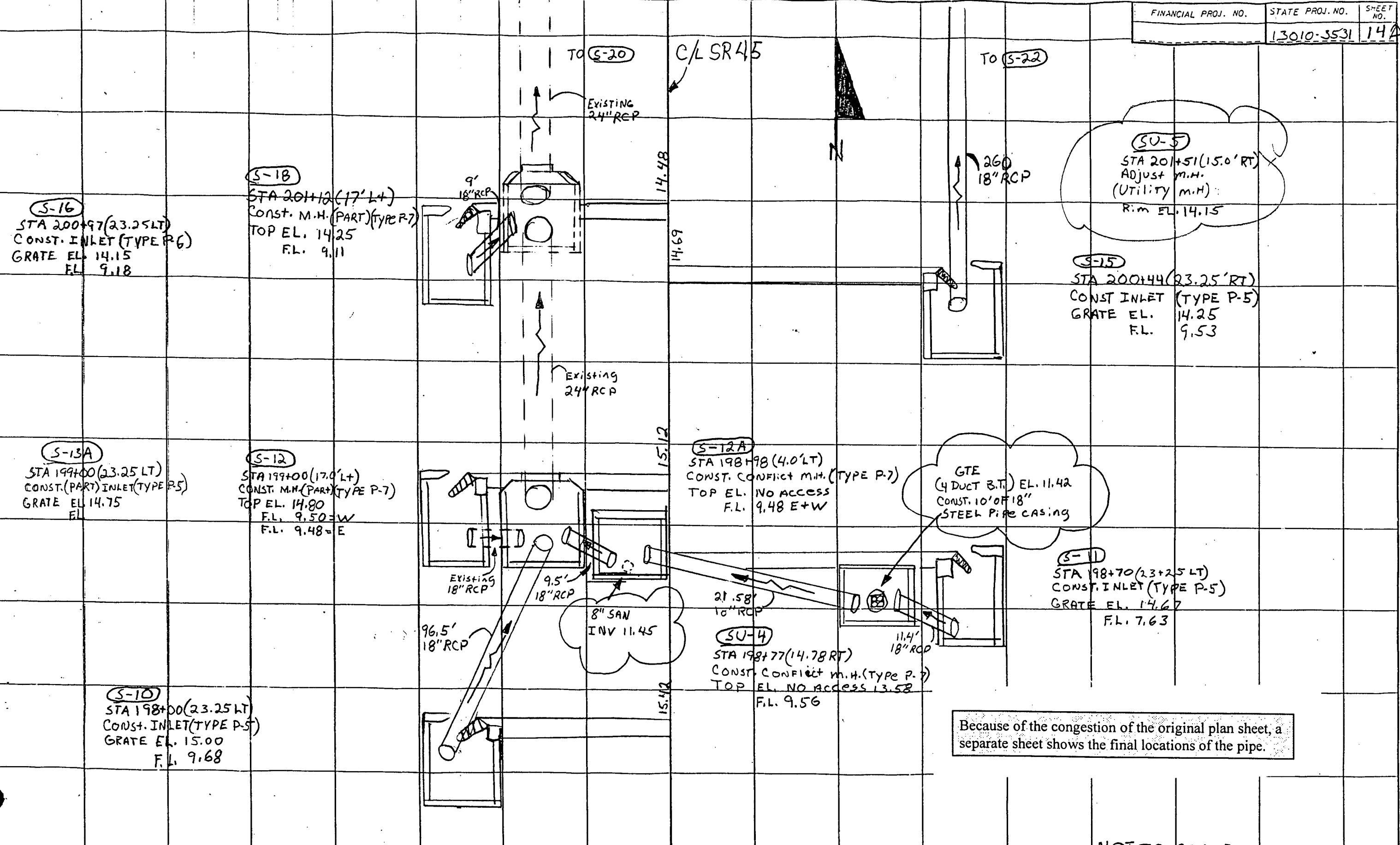
FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 14A

SCALE: 1" = 10' VERTICAL
1" = 10' HORIZONTAL

DESIGNED BY: GEC DATE: 5-25-95
DRAWN BY: GEC DATE: 5-25-95
CHECKED BY: TMP DATE: 9-26-95

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *[Signature]* DATE: 5/13/97

| REVISIONS | | | | | |
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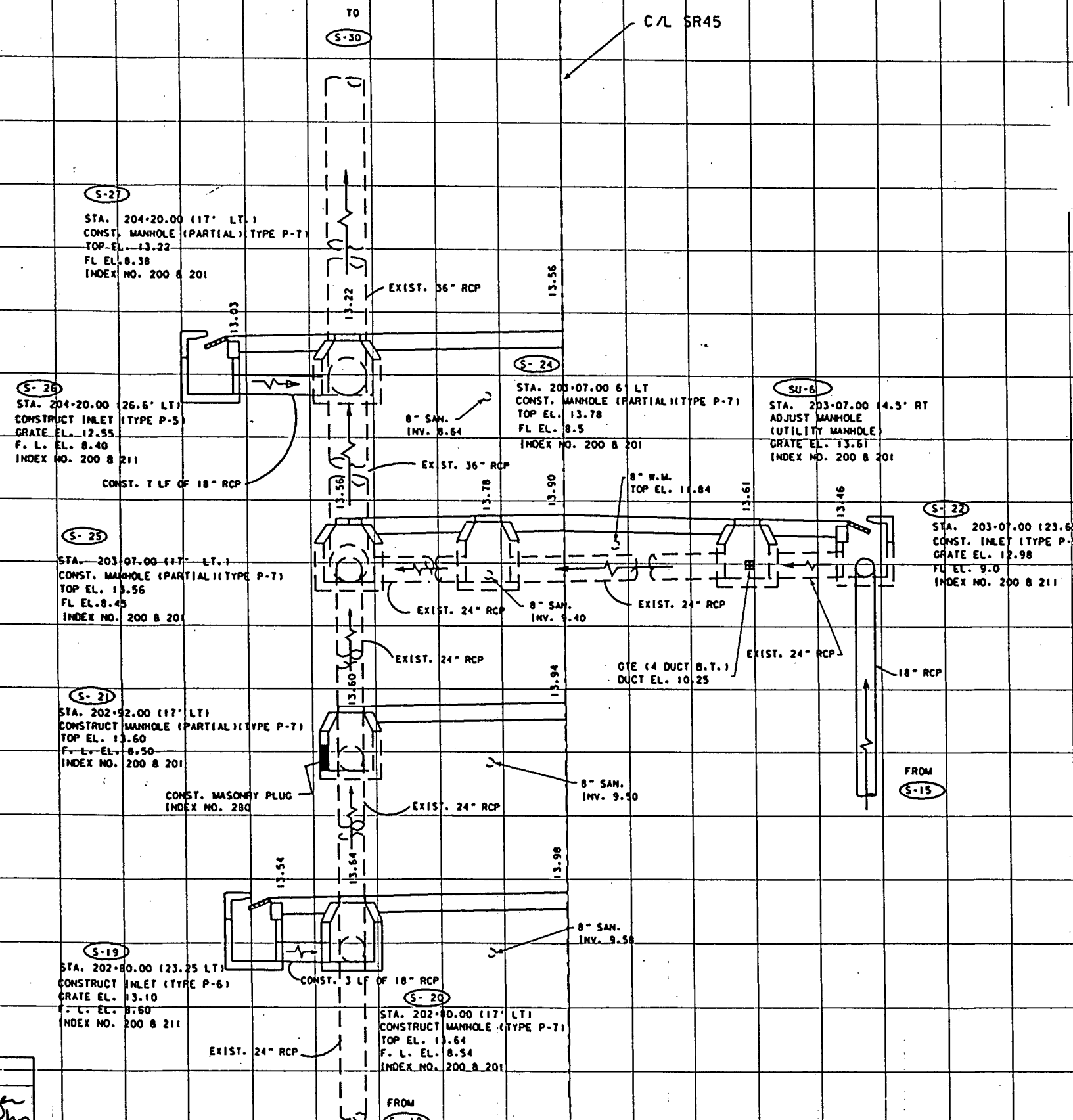


Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.

NOT TO SCALE.

| REVISIONS | | | |
|-----------|----|-------------|--|
| DATE | BY | DESCRIPTION | |
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FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 15A



| | |
|------|----------------|
| S-27 | STA. 204+20.00 |
| S-26 | STA. 204+20.00 |
| S-25 | STA. 203+07.00 |
| S-24 | STA. 203+07.00 |
| SU-6 | STA. 203+07.00 |
| S-22 | STA. 203+07.00 |
| S-21 | STA. 202+92.00 |
| S-20 | STA. 202+80.00 |
| S-19 | STA. 202+80.00 |

SCALE - 1" = 10' VERTICAL
1" = 10' HORIZONTAL

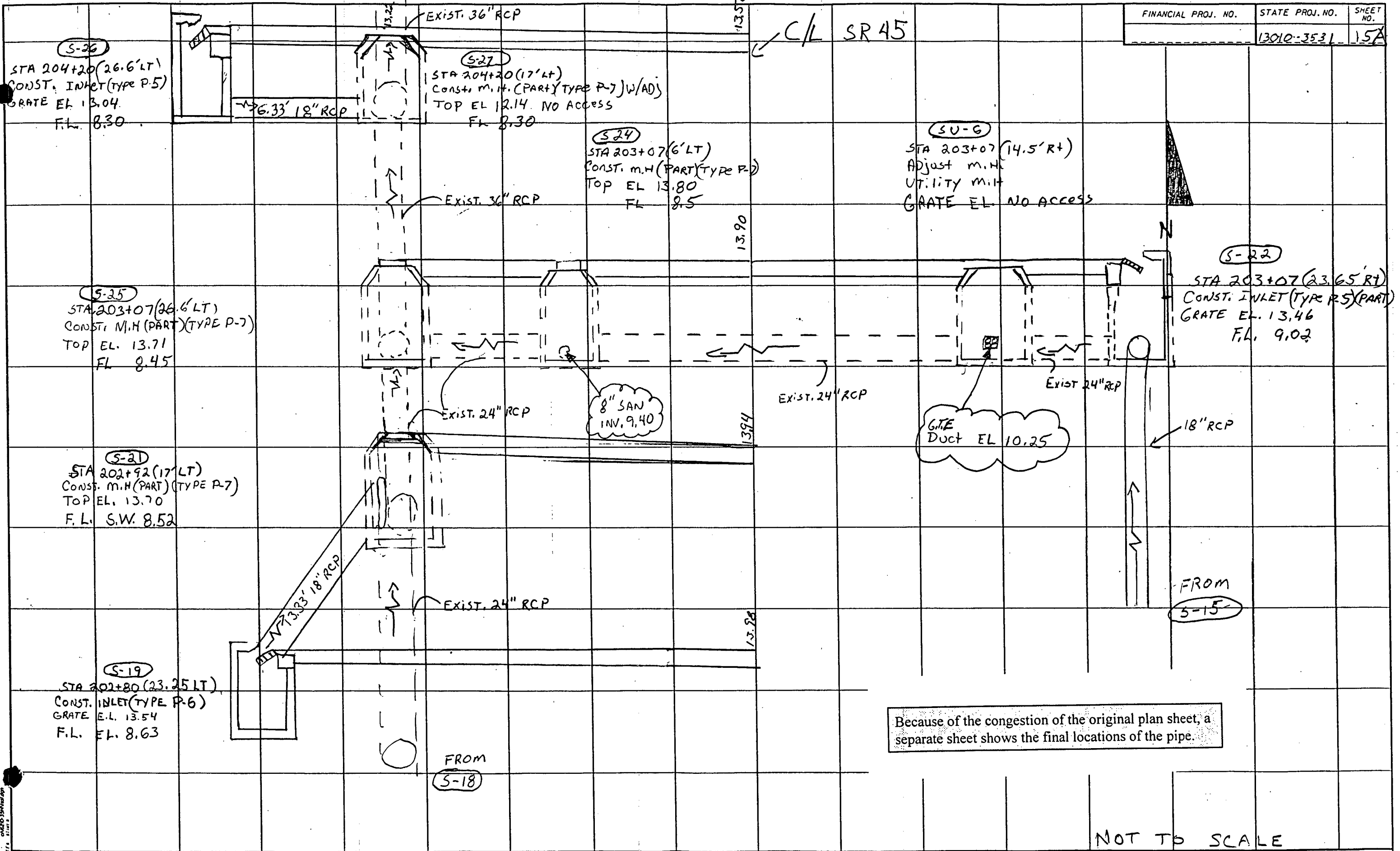
Wed Nov 13 12:05:37 1996 /usr3/proj/13010/3531/ds/strd2.dgn

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| DESIGNED BY: GEC | DATE: 5-25-95 | FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED BY: <i>Thomas J. Rindler</i> DATE: 5/23/97 |
| DRAWN BY: GEC | DATE: 5-25-95 | |
| CHECKED BY: TMP | DATE: 9-26-95 | |

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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FLORIDA DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURES



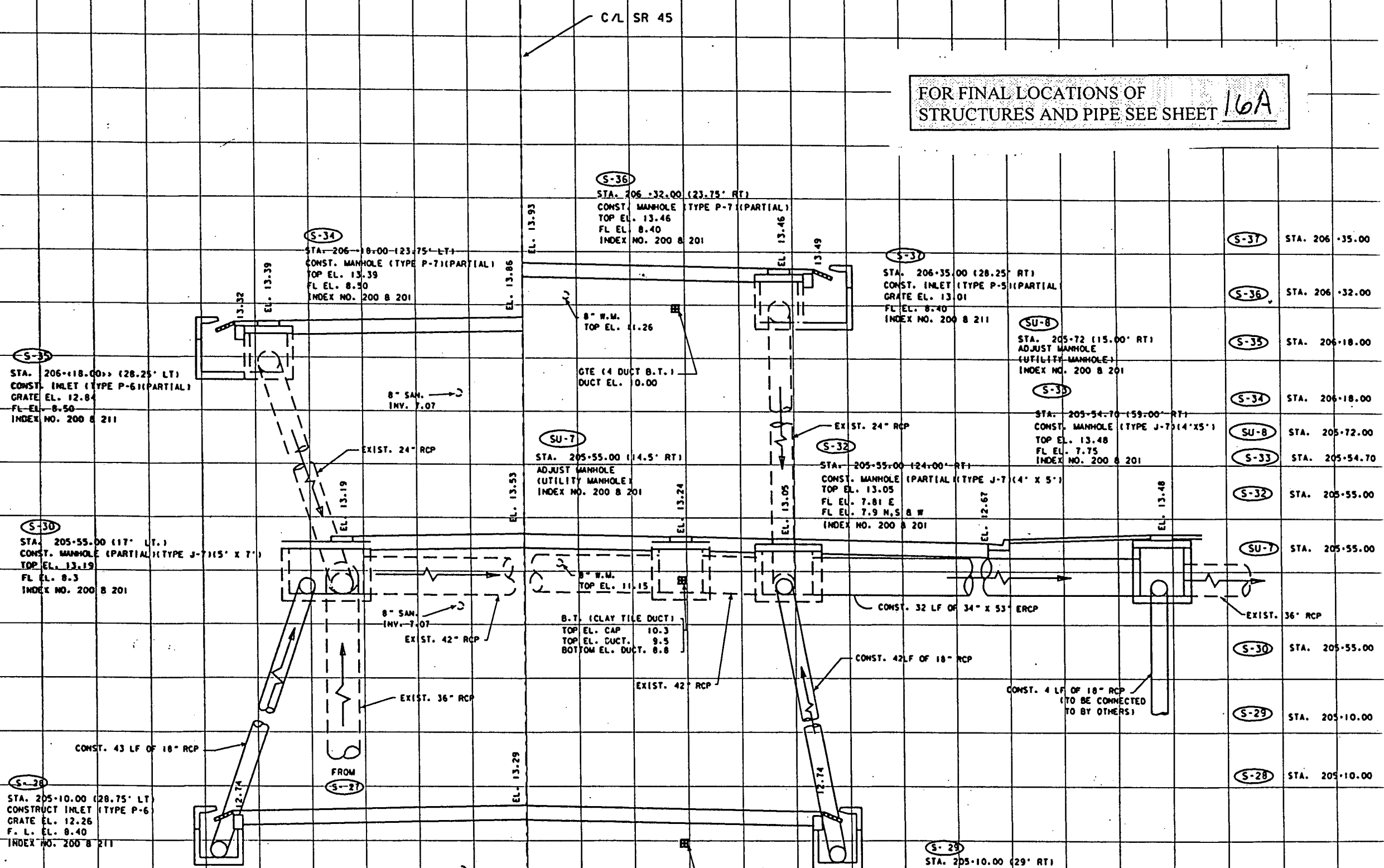
Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.

NOT TO SCALE

| DATE | | BY | | DESCRIPTION | | DATE | | BY | | DESCRIPTION | |
|------|--|----|--|-------------|--|------|--|----|--|-------------|--|
| | | | | | | | | | | | |

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FOR FINAL LOCATIONS OF STRUCTURES AND PIPE SEE SHEET 16A



Wed Nov 13 12:05:47 1996 /usr3/proj/13010/3551/dr/strd23.dgn

DESIGNED BY: GEC DATE: 5-25-95
 DRAWN BY: GEC DATE: 5-25-95
 CHECKED BY: TMP DATE: 9-24-95

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *[Signature]* DATE: 5/13/95

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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FLORIDA DEPARTMENT OF TRANSPORTATION
DRAINAGE STRUCTURES

SCALE: 1" = 10' VERTICAL
 1" = 10' HORIZONTAL

Because of the congestion of the original plan sheet, a separate sheet shows the final locations of the pipe.

C/L SR 45

SU-8
 STA 205+72 (15.0' RT)
 ADJUST M.H.
 UTILITY M.H.

S-36
 STA 206+32 (23.75 RT)
 CONST. M.H. (TYPE P-7) (PART)
 NO ACCESS
 F.L. 8.95

S-37
 STA 206+35 (28.25 RT)
 CONST. INLET (TYPE P-5) (PART)
 GRATE EL. 13.40
 F.L. 9.05

S-35
 STA 206+18 (28.25 LT)
 CONST. INLET (TYPE P-6)
 GRATE EL. 13.35
 F.L. 8.58

S-34
 STA 206+20 (23.75 LT)
 CONST. M.H. (TYPE P-7) (PART)
 NO ACCESS
 F.L. 8.54

SU-7A
 STA 205+55 (4' LT)
 ADJUST M.H.
 UTILITY M.H.
 NO ACCESS

SU-7
 STA 205+55 (14.5' RT)
 ADJUST M.H.
 UTILITY M.H.
 NO ACCESS

S-32
 STA 205+55 (24' RT)
 CONST. M.H. (PART) (TYPE P-7) (4' x 5')
 TOP EL. 13.02
 F.L. 7.81 E
 F.L. 7.95 S
 F.L. 7.9 N+W

S-30
 STA 205+55 (17' LT)
 CONST. M.H. (ADJUST)
 TOP EL. 13.10
 F.L. 8.36

S-28A
 STA 205+39 (23.75 LT)
 CONST. M.H. (TYPE P-7) (PART)
 NO ACCESS
 F.L. 8.40 N, E & S, W

S-28
 STA 205+10 (28.75 LT)
 CONST. INLET (TYPE P-6)
 GRATE EL. 12.76
 F.L. 8.56

S-27A
 STA 204+50 (12' LT)
 M.H. ADJUST
 (TYPE P-7)

EXIST 36" RCP

8" SAN
 INV. 7.67

G.T.E
 D.T. (CLAY TILE DUCT)
 TOP EL. 10.3

G.T.E
 4 (DUCT D.T.)
 DUCT EL. 10.25

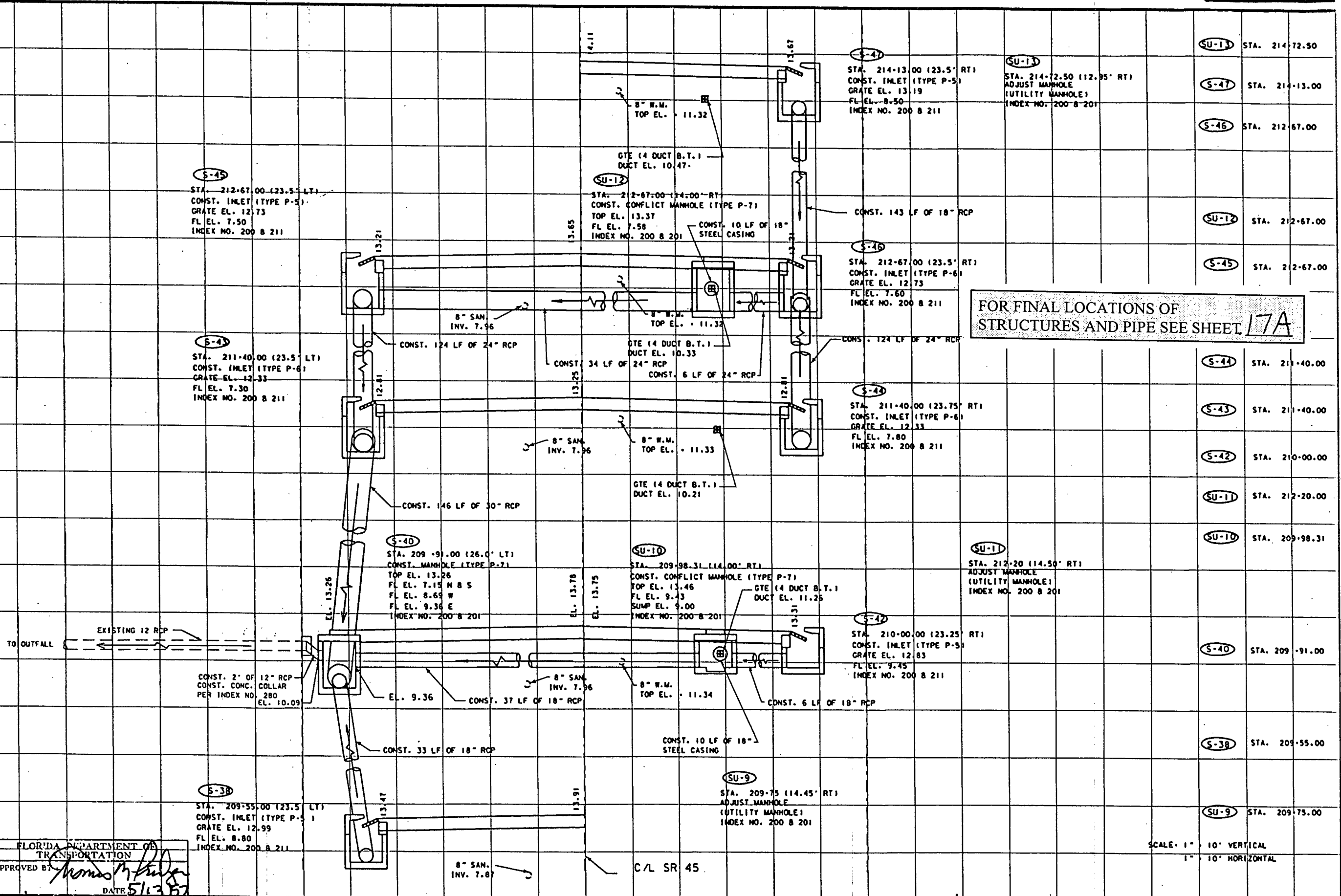
S-29
 STA 205+10 (28.75 RT)
 CONST. INLET (TYPE P-6)
 GRATE EL. 12.72
 F.L. 8.02

NOT TO SCALE

| REVISIONS | | | |
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| DATE | BY | DESCRIPTION | |
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DATE BY DESCRIPTION
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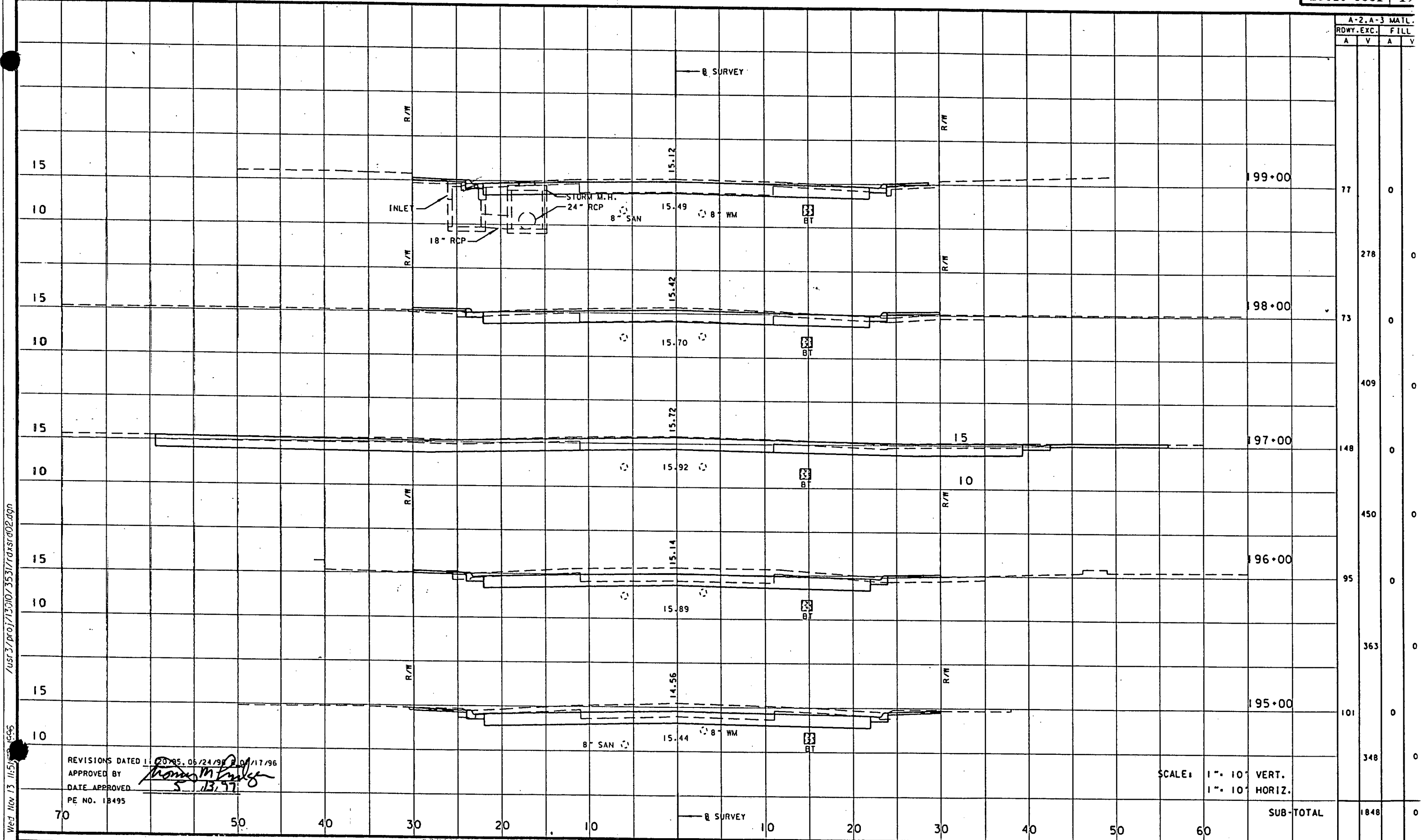
Wed Nov 13 12:44:39 1996 /usr3/proj/13010/3531/drs/str24.dgn



DESIGNED BY: GEC DATE: 5-23-95
 DRAWN BY: GEC DATE: 5-23-95
 CHECKED BY: TMP DATE: 9-24-95

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *[Signature]*
 DATE: 5/13/97

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| | | | | | | | | | | | |



| A-2, A-3 MATL. | | ROWY. EXC. | FILL |
|----------------|---|------------------|-------------|
| A | V | | |
| | | 77 | 0 |
| | | 278 | 0 |
| | | 73 | 0 |
| | | 409 | 0 |
| | | 148 | 0 |
| | | 450 | 0 |
| | | 95 | 0 |
| | | 363 | 0 |
| | | 101 | 0 |
| | | 348 | 0 |
| | | SUB-TOTAL | 1848 |

REVISIONS DATED 11/20/95, 05/24/96, 09/11/96
 APPROVED BY *Thomas M. [Signature]*
 DATE APPROVED 5.13.97
 PE NO. 18495

SCALE: 1" = 10' VERT.
 1" = 10' HORIZ.

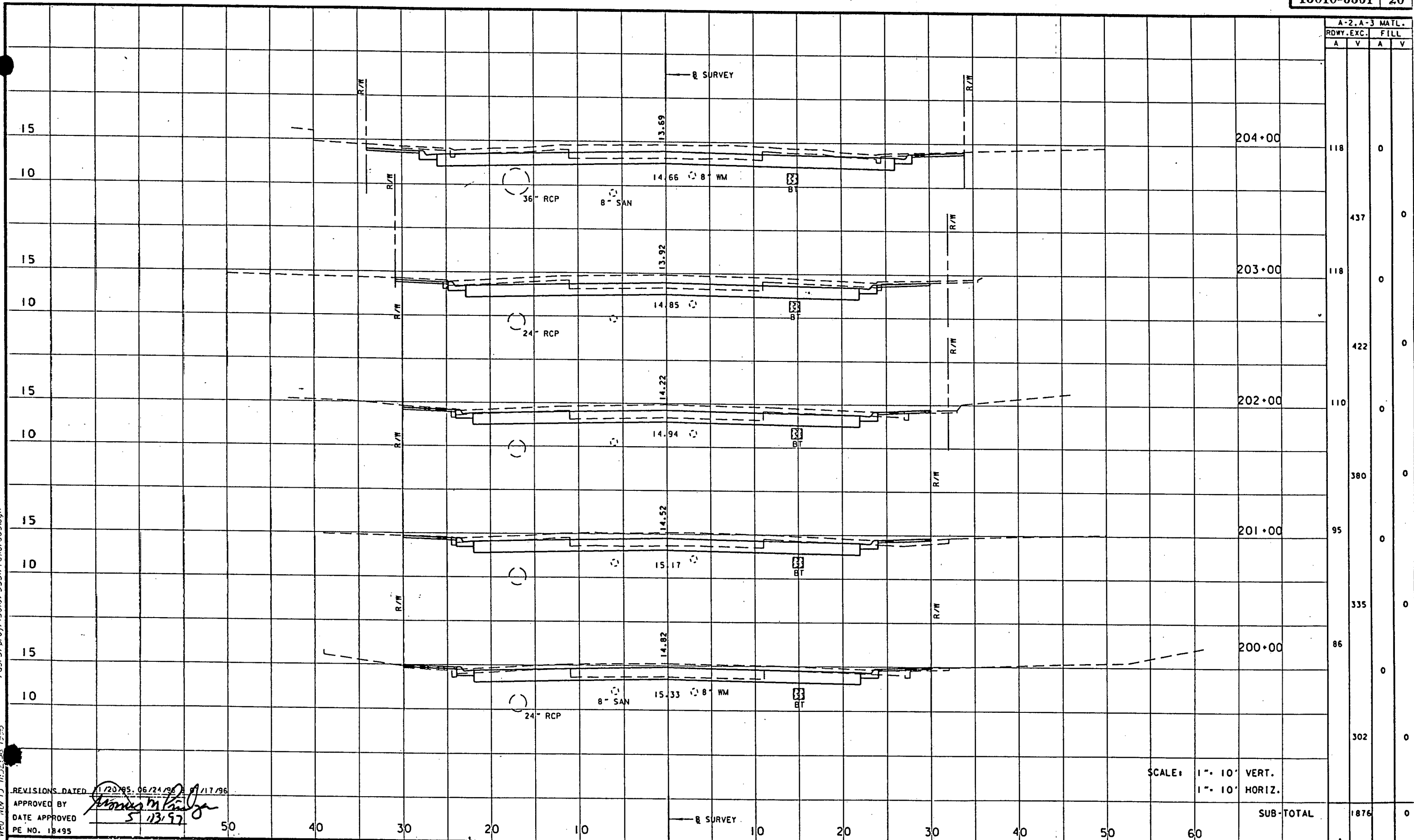
Wed Nov 13 11:51:58 AM 1996 /usr3/proj/13010/3531/rdsr02.dgn

| REVISIONS | | | |
|-----------|-----|--|--|
| DATE | BY | DESCRIPTION | |
| 11/20/95 | BCM | CHANGE CROSS-SECTION TO REFLECT 44' WIDTH OF ROADWAY | |
| 6/24/96 | GEC | ADDED GTE BY CABLE | |
| 7/17/96 | GEC | REVISED SHEET NUMBER | |
| | | REMOVED RETAINING WALL | |

FLORIDA DEPARTMENT OF TRANSPORTATION



CROSS SECTIONS

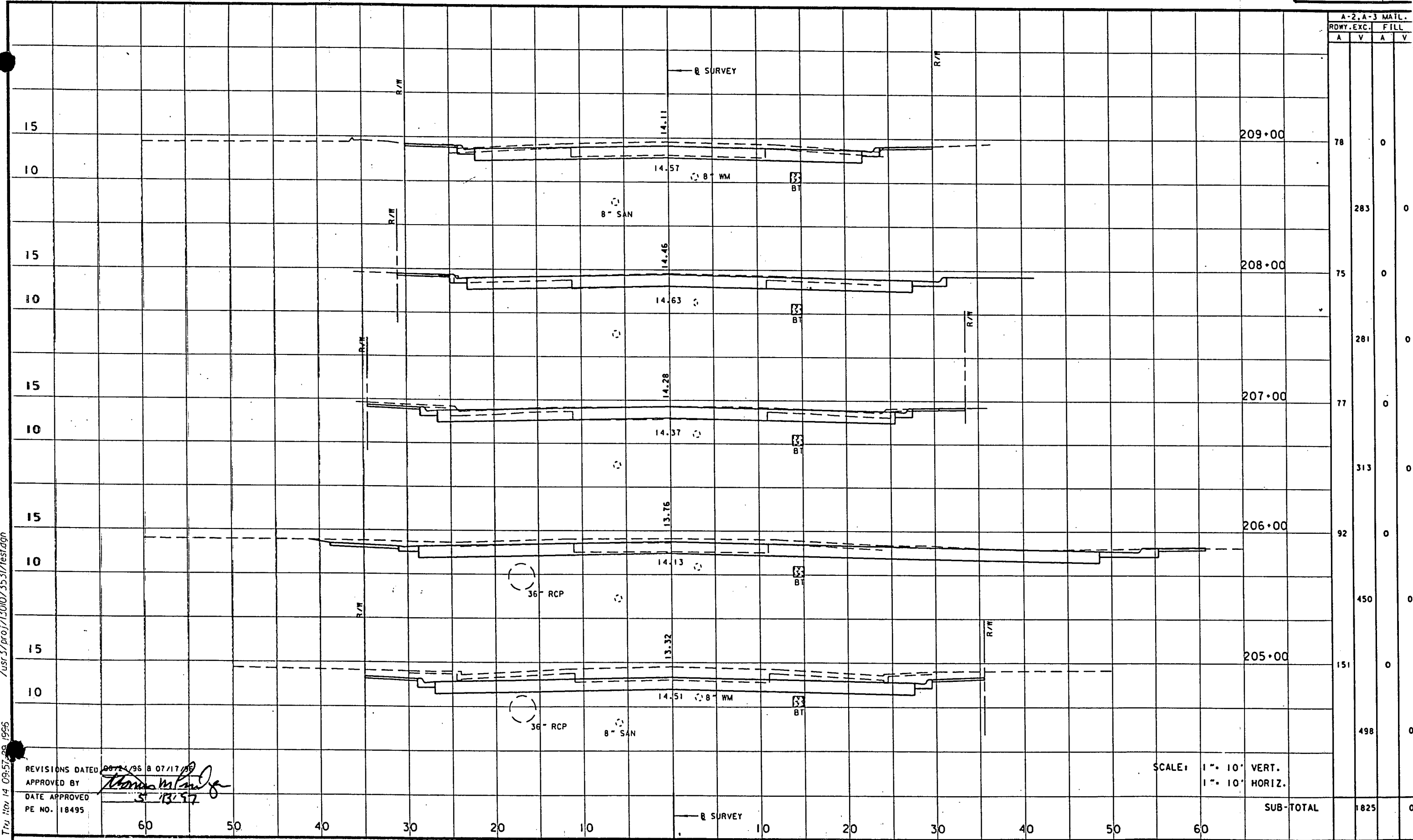


/usr3/proj/13010/3531/rdsrtd03.dgn
Wed Nov 13 11:52:56 1996

REVISIONS DATED 11/20/95, 06/24/96, 7/17/96
 APPROVED BY *[Signature]*
 DATE APPROVED 5/13/97
 PE NO. 18495

SCALE: 1" = 10' VERT.
 1" = 10' HORIZ.

| REVISIONS | | | | | |
|-----------|-----|--|---------|-----|------------------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| 11/20/95 | BCM | CHANGE CROSS-SECTIONS TO REFLECT 44' WIDTH TO STA. 203+00. | 6/24/96 | GEC | ADDED GTE BT CABLE |
| | | | 7/17/96 | GEC | REVISED SHEET NUMBER |
| | | | | | REMOVED RETAINING WALL |



| A-2, A-3 MATL. | | FILL | |
|----------------|------|------|---|
| ROWY. | EXC. | A | V |
| 78 | 0 | 0 | 0 |
| 283 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 |
| 281 | 0 | 0 | 0 |
| 77 | 0 | 0 | 0 |
| 313 | 0 | 0 | 0 |
| 92 | 0 | 0 | 0 |
| 450 | 0 | 0 | 0 |
| 151 | 0 | 0 | 0 |
| 498 | 0 | 0 | 0 |
| SUB-TOTAL | | 1825 | 0 |

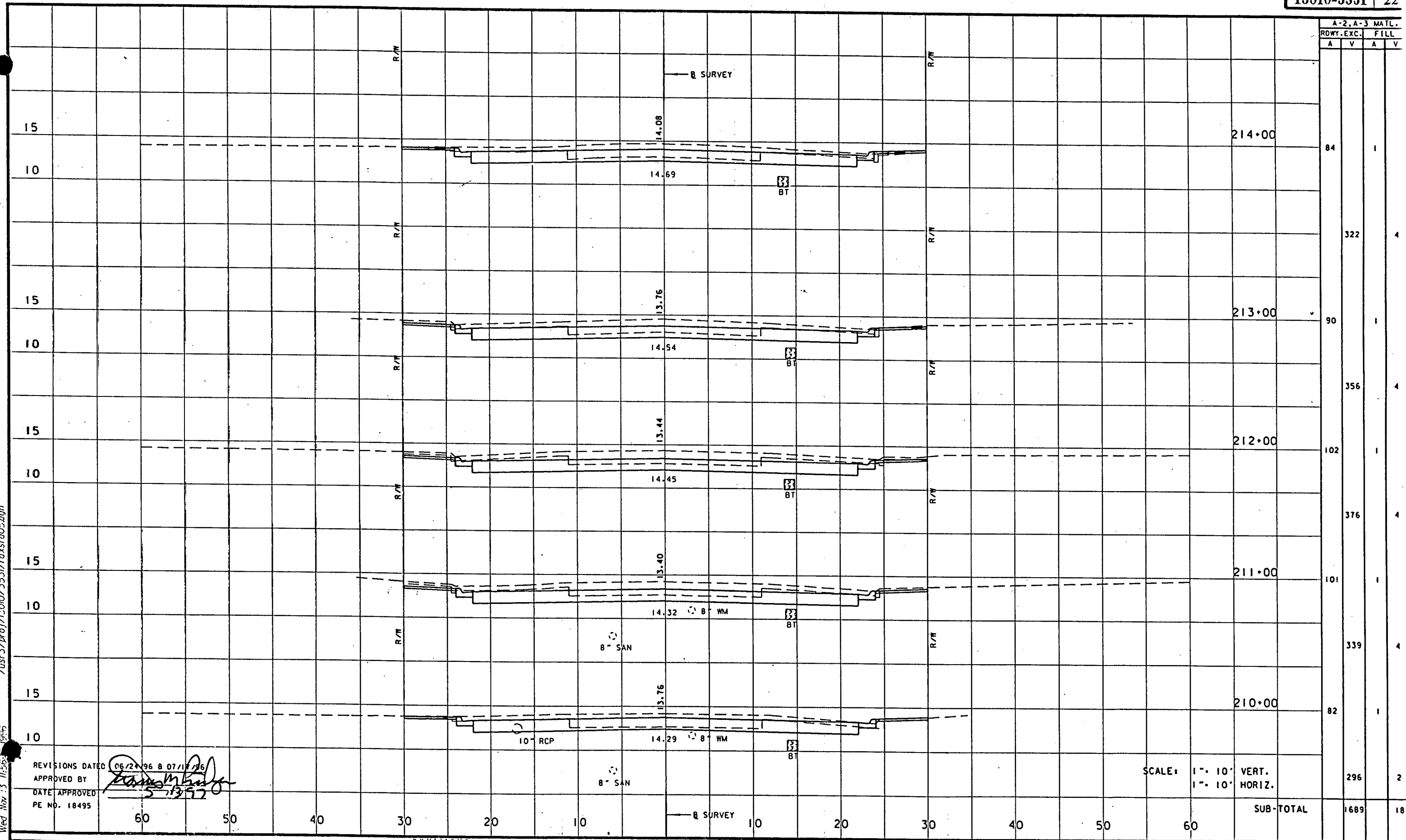
REVISIONS DATED 06/24/96 & 07/17/96
 APPROVED BY *[Signature]*
 DATE APPROVED 5/13/97
 PE NO. 18495

SCALE: 1" = 10' VERT.
 1" = 10' HORIZ.

Tru Hw 14 09:57:38 1996 /usr3/proj/13010/3531/test.dgn

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|---------|-----|--------------------|---------|-----|---|------|----|-------------|------|----|-------------|------|----|-------------|
| 6-24-96 | GEC | ADDED GTE 8T CABLE | 7/17/96 | GEC | REVISED SHEET NUMBER REMOVED RETAINING WALL | | | | | | | | | |

| A-2, A-3 | | MATERIAL | |
|------------|------|----------|---|
| ROWY. EXC. | FILL | A | V |
| | | | |



Wed Nov 13 11:56:19 1996 /usr3/proj/13010/3531/rdsr05.dgn

REVISIONS DATED 06/24/96 & 07/17/96
 APPROVED BY *[Signature]*
 DATE APPROVED 5/13/97
 PE NO. 18495

SCALE: 1" = 10' VERT.
 1" = 10' HORIZ.

SUB-TOTAL 1689 18

| REVISIONS | | | | | | | | | | | |
|-----------|-----|--------------------|---------|-----|---|------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| 6-24-96 | GEC | ADDED GTE BY CABLE | 7/17/96 | GEC | REVISED SHEET NUMBER REMOVED RETAINING WALL | | | | | | |

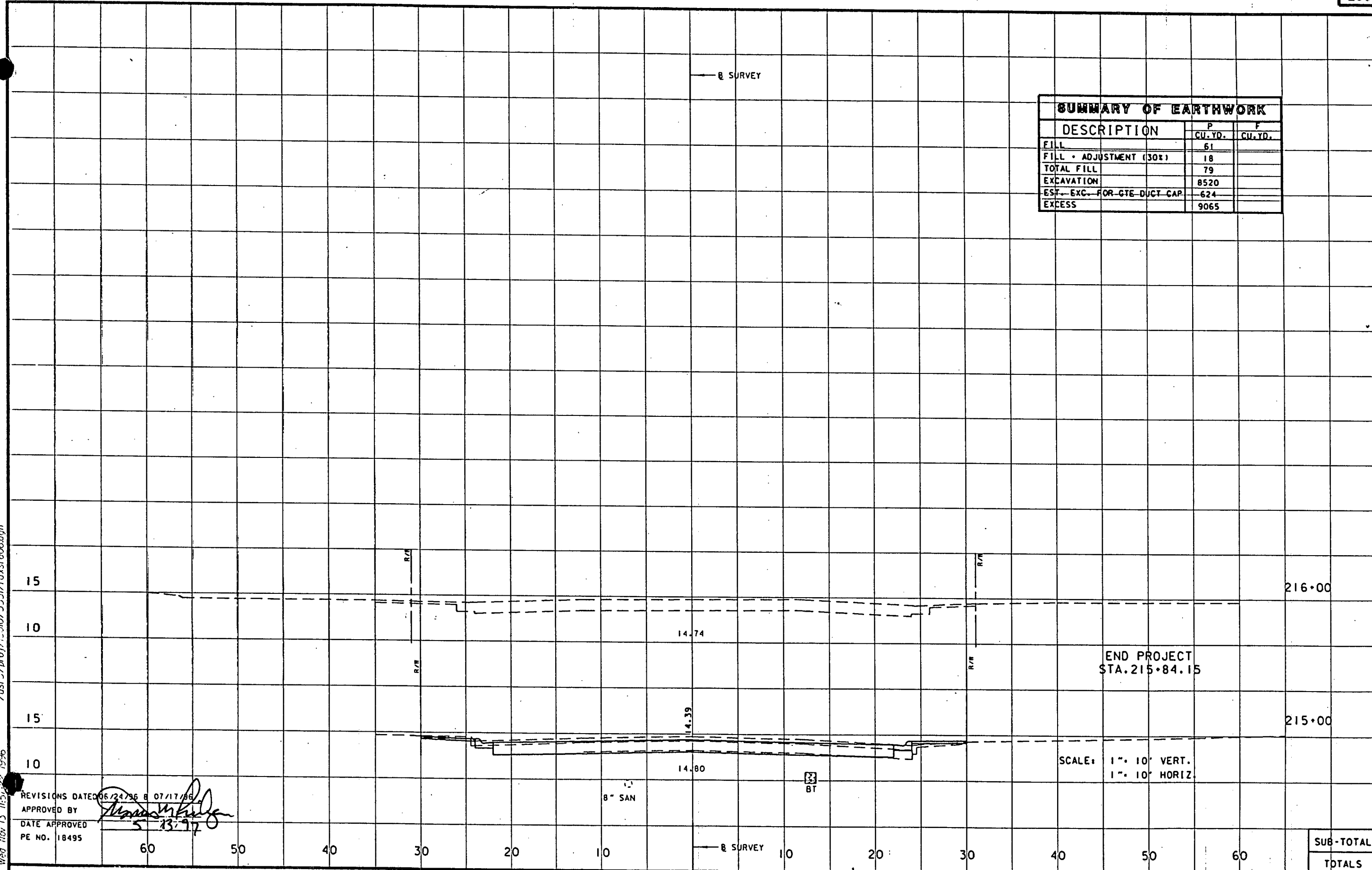
FLORIDA DEPARTMENT OF TRANSPORTATION



CROSS SECTIONS

| A-2, A-3 MATL. | | FILL | |
|----------------|------|------|----|
| ROWY. | EXC. | A | V |
| 75 | 2 | | |
| 234 | 6 | | |
| 75 | 2 | | |
| 294 | 6 | | |
| SUB-TOTAL | | 528 | 12 |
| TOTALS | | 8453 | 61 |

| DESCRIPTION | P | F |
|----------------------------|---------|---------|
| | CU. YD. | CU. YD. |
| FILL | 51 | |
| FILL - ADJUSTMENT (30%) | 18 | |
| TOTAL FILL | 79 | |
| EXCAVATION | 8520 | |
| EST. EXC. FOR GTE DUCT CAP | 624 | |
| EXCESS | 9065 | |



END PROJECT
STA. 215+84.15

SCALE: 1" = 10' VERT.
1" = 10' HORIZ.

REVISIONS DATED 06/24/96 & 07/17/96
APPROVED BY *[Signature]*
DATE APPROVED 5-13-97
PE NO. 18495

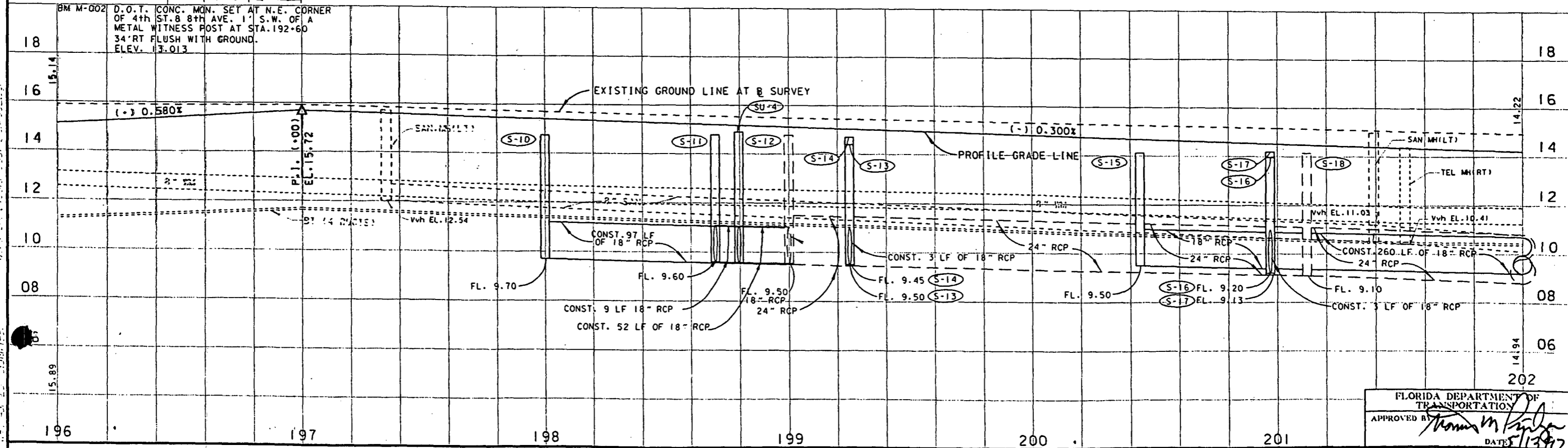
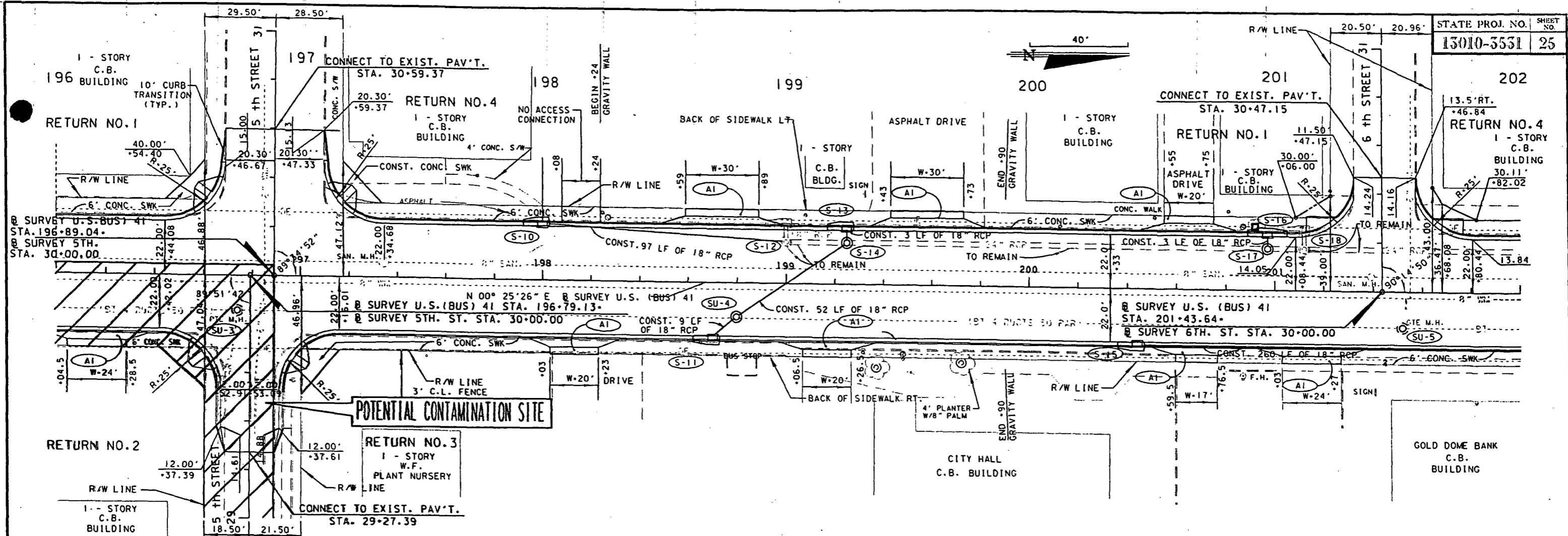
Wed Nov 13 11:57:22 1996 /usr3/proj/13010/3531/cons/cross.dgn

| DATE | | BY | | DESCRIPTION | | DATE | | BY | | DESCRIPTION | |
|---------|-----|----------------------|---------|-------------|---------------------------|------|--|----|--|-------------|--|
| 6-24-96 | GEC | ADDED GTE BY CABLE | 7/17/96 | GEC | REVISED SUM. OF EARTHWORK | | | | | | |
| 7/17/96 | GEC | REVISED SHEET NUMBER | | | | | | | | | |

FLORIDA DEPARTMENT OF
TRANSPORTATION



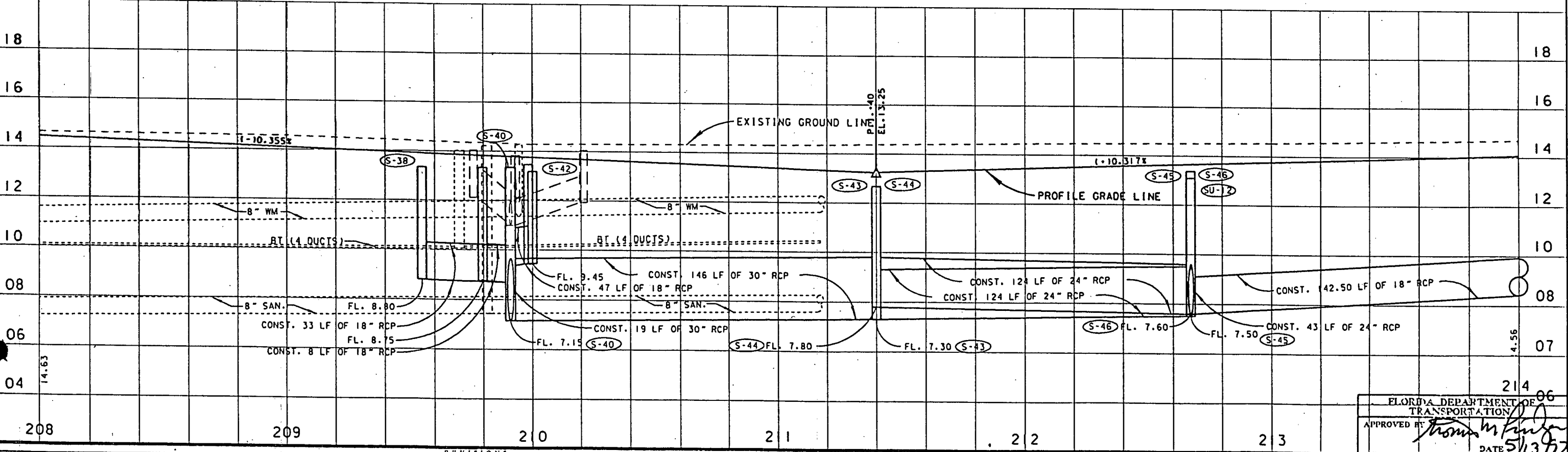
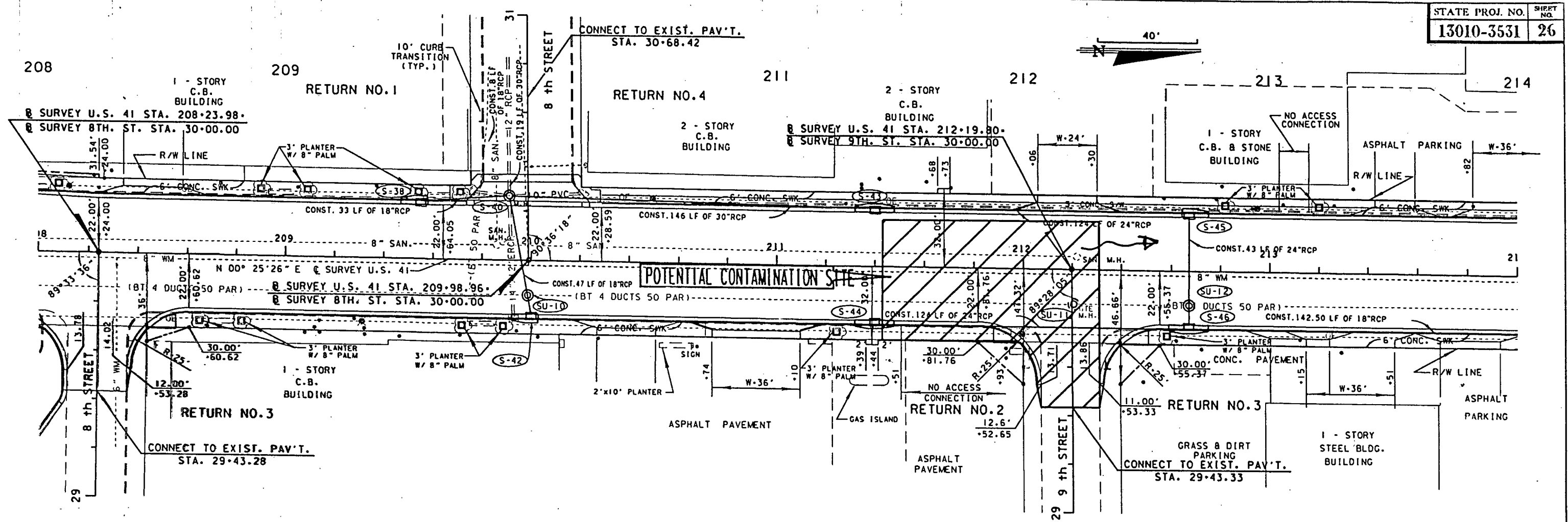
CROSS SECTIONS



| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. [Signature]*
 DATE: 5/13/97

POTENTIAL CONTAMINATION AREA



214 06
 FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY *Thomas M. ...*
 DATE 5/13/77

FILE: f:\proj\03\proj\13010\3531\plan\003.dgn

| DATE | | BY | | DESCRIPTION | | DATE | | BY | | DESCRIPTION | |
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FLORIDA DEPARTMENT OF TRANSPORTATION
 POTENTIAL CONTAMINATION AREA

GENERAL NOTES

- ALL MAINTENANCE OF TRAFFIC SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, PART VI (DATED 1988), ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX NO. 600-660 AS APPLICABLE (DATED 1994).
- THE REGULATORY SPEED OF 30 MPH SHALL BE MAINTAINED WITHIN THE LIMITS OF THE WORK ZONE.
- EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION SIGNS SHALL BE REMOVED DURING CONSTRUCTION. ALL EXISTING SIGNS THAT ARE REMOVED SHALL BE STOCKPILED IN A SECURE PLACE AND RE-INSTALLED AFTER CONSTRUCTION UNLESS SHOWN TO BE REMOVED IN THE SIGNING AND MARKING PLANS. INSTALL, REPLACE AND REMOVE ANY GROUND MOUNT SIGNS BY USE OF INDEX NO. 611.
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH CONSTRUCTION MARKING SHALL BE REMOVED.
- ARROWS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS.
- PAVEMENT MARKINGS ARE TO BE APPLIED BY USE OF INDEX NO. 627.
- WHENEVER CONSTRUCTION EQUIPMENT IS RELOCATED AND/OR DRIVEN ON OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE INDEX NO. 627.
- MAINTENANCE OF TRAFFIC SIGNING LOCATIONS ARE APPROXIMATE AND MAY BE VARIED AS DEEMED NECESSARY BY THE PROJECT ENGINEER TO AVOID STREETS, DRIVEWAYS OR OTHER CONFLICTS. MINIMUM SIGNING DISTANCES WILL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR HAS THE OPTION TO SUBMIT AN ALTERNATE MAINTENANCE OF TRAFFIC PLAN FOR REVIEW AND APPROVAL BY THE DEPARTMENT.
- THE CONTRACTOR SHALL PROVIDE PEDESTRIAN ACCESS ON ONE SIDE OF THE STREET, MINIMUM, AT ALL TIMES OVER NEW AND/OR EXISTING SIDEWALK. PEDESTRIAN CONTROL SHALL BE PER INDEX 660. CROSSINGS SHALL BE ONLY AT LOCATIONS WITH PROPER CROSSWALK PAVEMENT MARKING.
- DURING THE SIGNAL AND OTHER OPERATIONS WHICH WILL IMPEDE TRAFFIC WITHIN THE AREA OF A SIGNALIZED INTERSECTION AND DURING LANE CLOSURES AN OFF DUTY OFFICER SHALL BE PRESENT FOR TRAFFIC CONTROL. TO BE PAID FOR UNDER ITEM NO. 102-10.
- ALL SIGNALS SHALL REMAIN IN ACTUATED OPERATION THROUGH THE DURATION OF PROJECT CONSTRUCTION.
- FOR MAINTENANCE OF TRAFFIC ON SIGNALIZATION SEE TRAFFIC CONTROL PLAN SHEET NO. 37.

PHASE I

INSTALL CONSTRUCTION SIGNS, PREFORM MILLING AND OVERBUILD OPERATIONS FROM STA. 186+80.00 TO STA. 191+45 AND STA. 215+84.15 TO STA. 218+52. USE INDEX NO. 623.

INSTALL CONSTRUCTION SIGNS, BARRICADES, PAVEMENT MARKINGS AND TEMPORARY CURB AT CROSS PIPE LOCATIONS. MAINTAIN ONE (1) NORTHBOUND LANE AND ONE (1) SOUTHBOUND LANE. CONSTRUCT DRAINAGE STRUCTURES AND PIPES. CLOSE EAST SIDE OF 4th STREET TO TRAFFIC TO CONSTRUCT DRAINAGE STRUCTURES AND PIPES.

STA. 206+20 TO STA. 209+70 TRANSITION TRAFFIC TO THE OTHER SIDE OF ROADWAY AND MAINTAIN ONE (1) OUTSIDE NORTHBOUND LANE AND ONE (1) INSIDE SOUTHBOUND LANE. CLOSE 8th STREET (STA. 209+98.96 LT.) TO TRAFFIC. CONSTRUCT DRAINAGE STRUCTURES AND PIPES.

PHASE II

INSTALL CONSTRUCTION SIGNS, BARRICADES, PAVEMENT MARKINGS AND TEMPORARY CURB AT PIPE EXTENSION LOCATIONS. MAINTAIN ONE (1) NORTHBOUND LANE AND ONE (1) SOUTHBOUND LANE. CONSTRUCT DRAINAGE STRUCTURES AND PIPES.

PHASE III

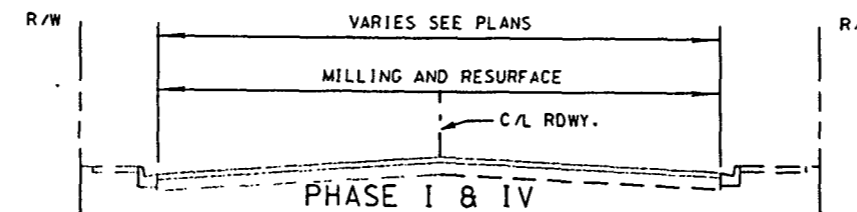
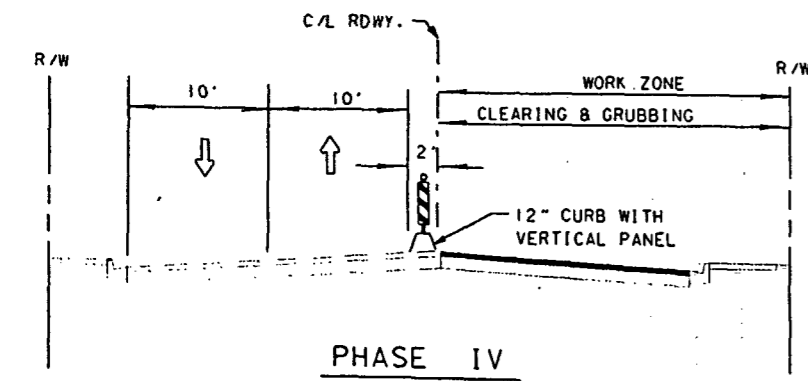
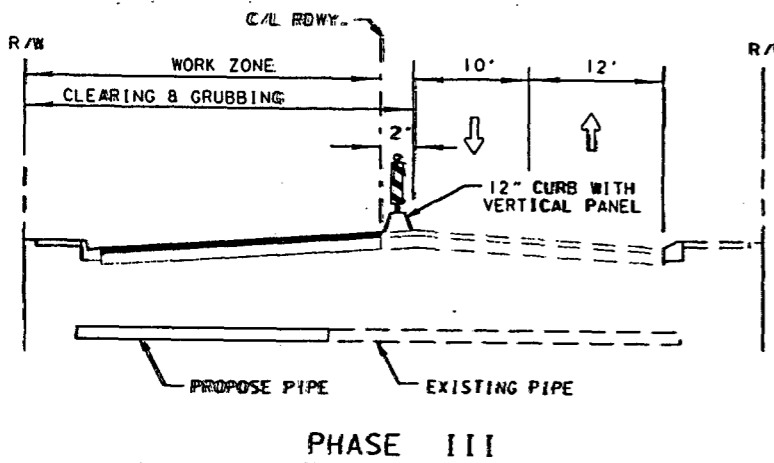
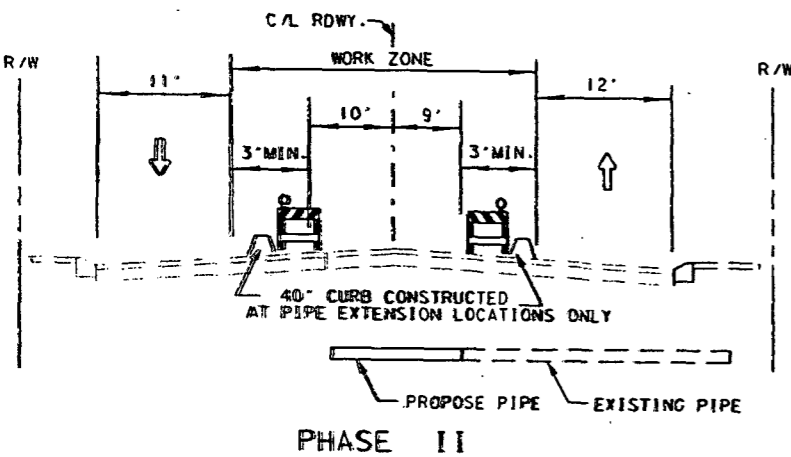
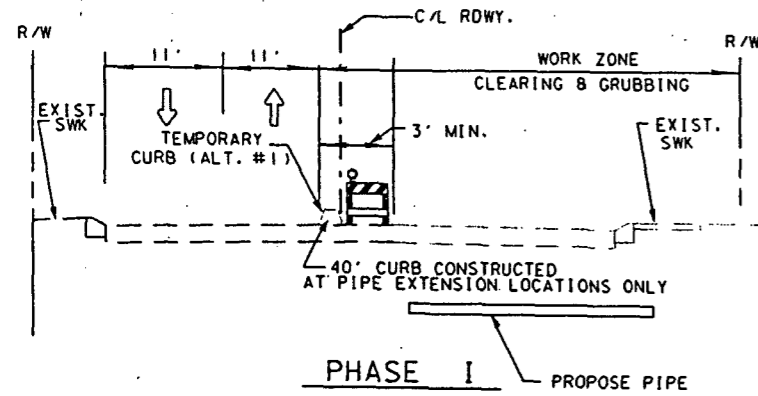
INSTALL CONSTRUCTION SIGNS, BARRICADES, PAVEMENT MARKINGS, TEMPORARY CURB AND VERTICAL PANELS. MAINTAIN ONE (1) NORTHBOUND LANE AND ONE (1) SOUTHBOUND LANE. CLOSE WEST SIDE OF 4th STREET TO TRAFFIC. CONSTRUCT DRAINAGE STRUCTURES AND PIPE. CLEAR AND GRUB, CONSTRUCT CURB & GUTTER, SIDEWALK, SUB BASE, BASE AND STRUCTURE COURSE.

PHASE IV

INSTALL CONSTRUCTION SIGNS, BARRICADES, PAVEMENT MARKINGS, TEMPORARY CURB, AND VERTICAL PANELS. MAINTAIN ONE (1) NORTHBOUND LANE AND ONE (1) SOUTHBOUND LANE. CLEAR AND GRUB, CONSTRUCT CURB & GUTTER, SIDEWALK, SUB BASE, BASE AND STRUCTURE COURSE. CONSTRUCT TEMPORARY PAVEMENT MARKINGS (PAINT). SEE PAVEMENT MARKINGS PLANS FOR PLACEMENT OF PAVEMENT MARKINGS.

PHASE V

CONSTRUCT FRICTION COURSE AND INSTALL TEMPORARY PAVEMENT MARKINGS (PAINT). SEE PAVEMENT MARKINGS PLANS FOR PLACEMENT OF PAVEMENT MARKINGS. AFTER 30 DAY ASPHALT CURING PERIOD, CONSTRUCT PERMANENT MARKINGS. USE INDEX NO. 627.

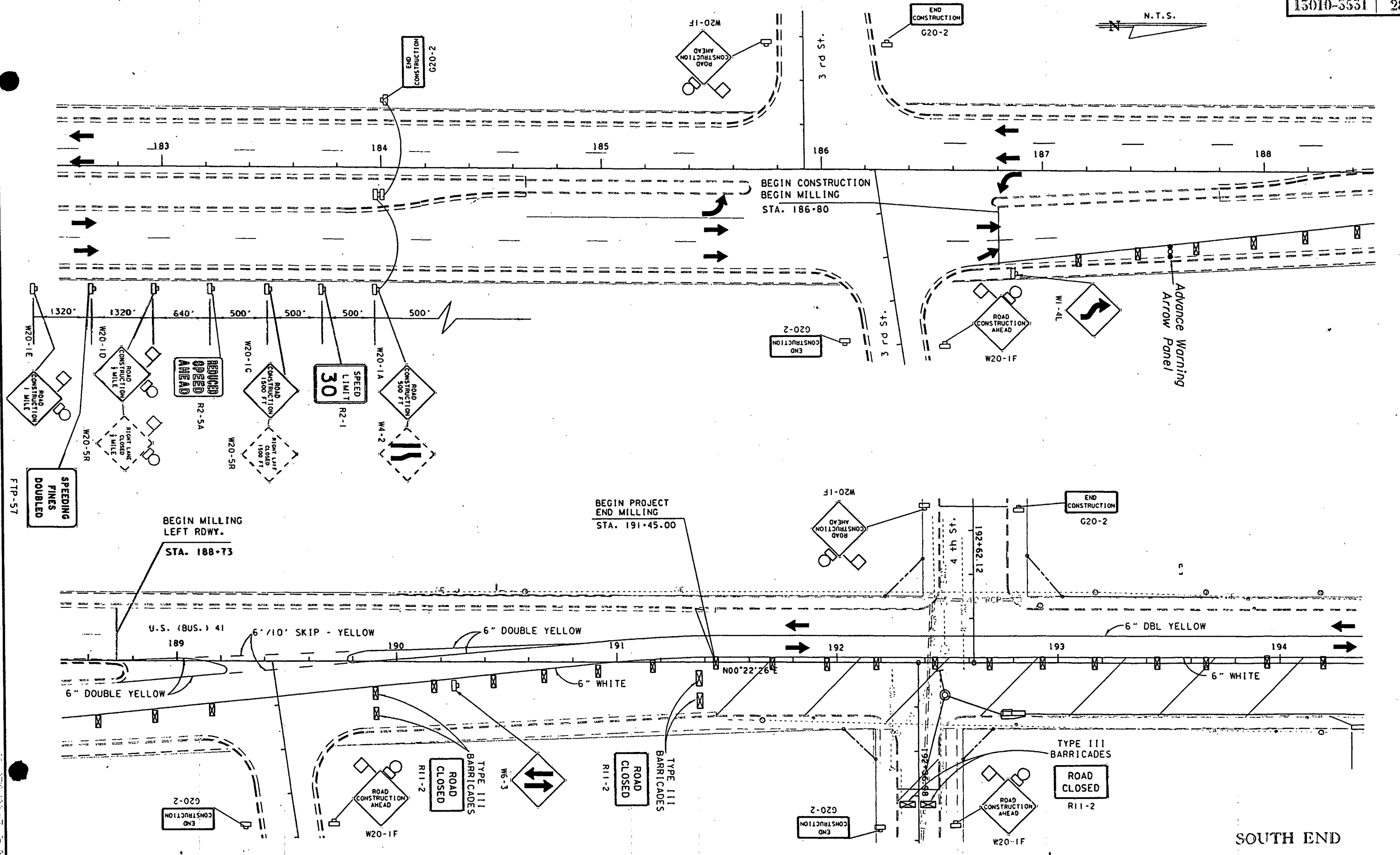


PHASE I & IV
 STA. 186+80 TO STA. 191+45 (SOUTHEND)
 STA. 215+84 TO STA. 218+52 (NORTHEND)
 MILL 1 1/2" AND CONSTRUCT TYPE S
 OVERBUILD 50 LBS./S.Y. (PHASE I) WITH
 ASPHALTIC CONCRETE FRICTION COURSE
 FC-3 (1") (RUBBER) (PHASE IV ONLY)

ESTIMATED MANHOURS FOR (1) LAW ENFORCEMENT OFFICER

| | |
|---|---------------------------------------|
| TRAFFIC SIGNALS INSTALLATION AND ADJUSTMENTS FOR ALL PHASES 10 DAYS X 8 HRS. = 80 HRS. | PHASE IV 2 DAYS X 8 HRS. = 16 HRS. |
| PHASE I 2 DAYS X 8 HRS. = 16 HRS. | PHASE V 2 DAYS X 8 HRS. = 16 HRS. |
| PHASE II 2 DAYS X 8 HRS. = 16 HRS. | |
| PHASE III 2 DAYS X 8 HRS. = 16 HRS. | |
| TOTAL | 160 HRS. |

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE | APPROVED BY | DATE |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|-------------|------|------|----------|------|------|-------------|------|
| | | | | | | | | | | | | | | | | | | | |



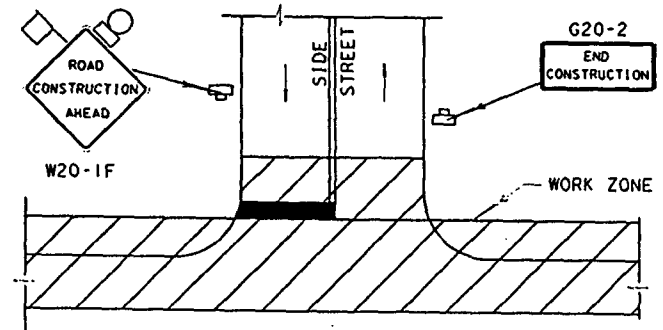
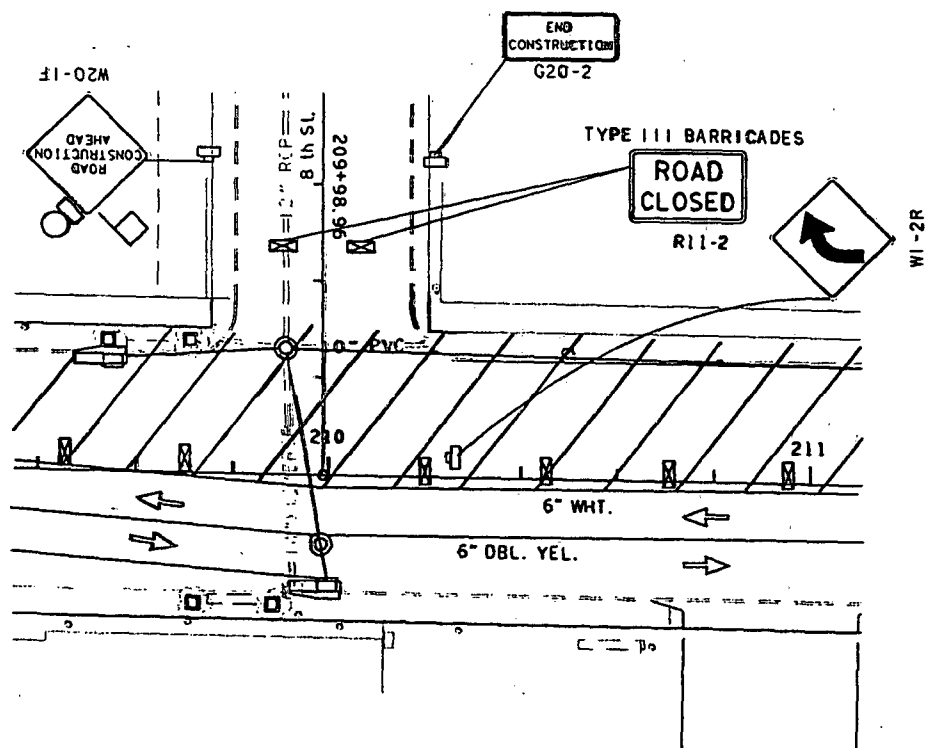
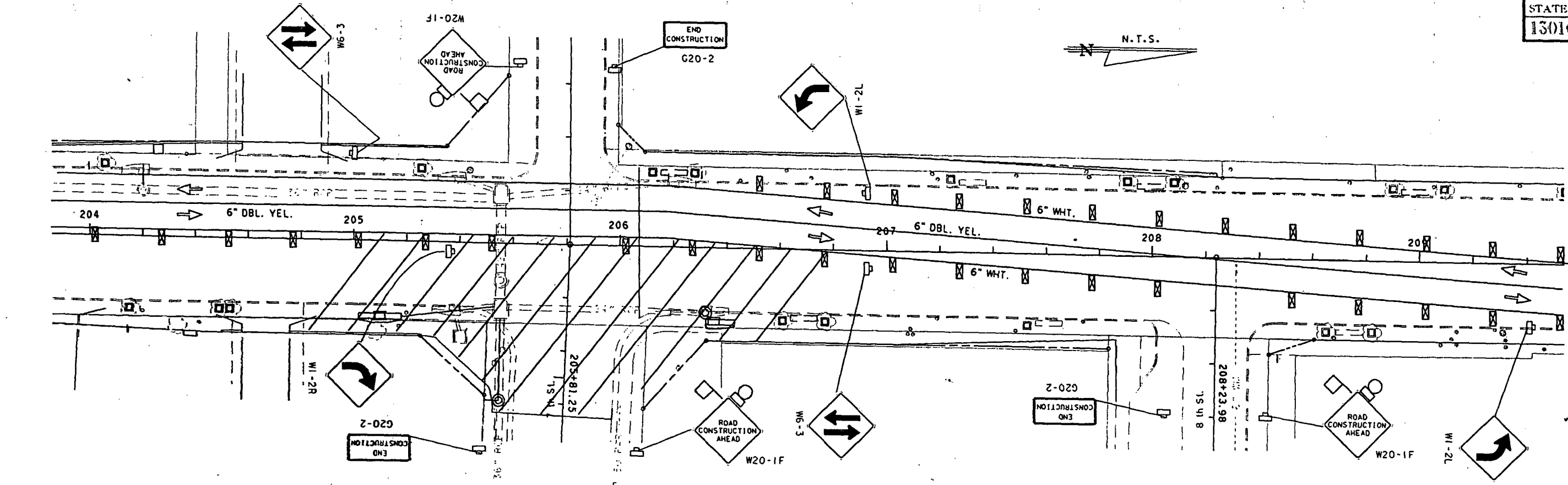
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|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
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| DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
|-------------|------|------|----------|------|------|
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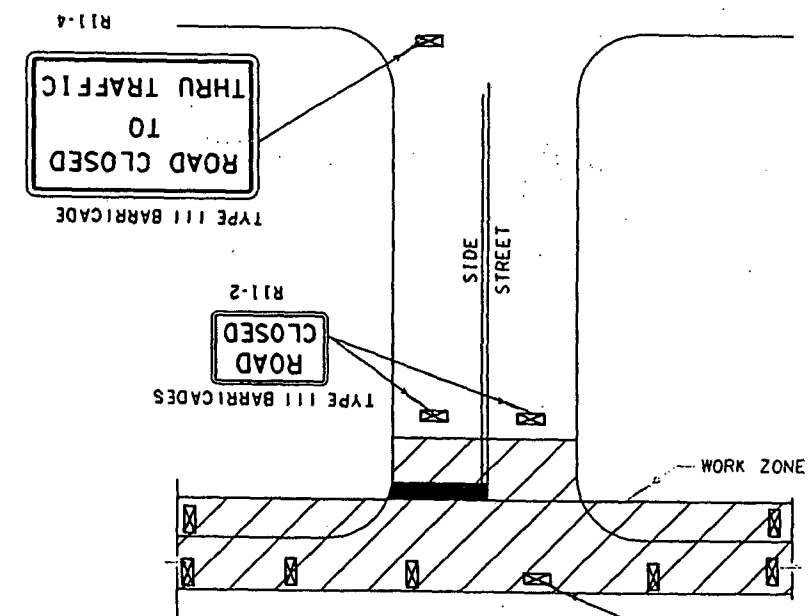
FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas H. [Signature]*
 DATE: 5/13/77

TRAFFIC CONTROL PLAN (PHASE I)

N.T.S.



TYPICAL SIDE STREET SIGNING
N.T.S.



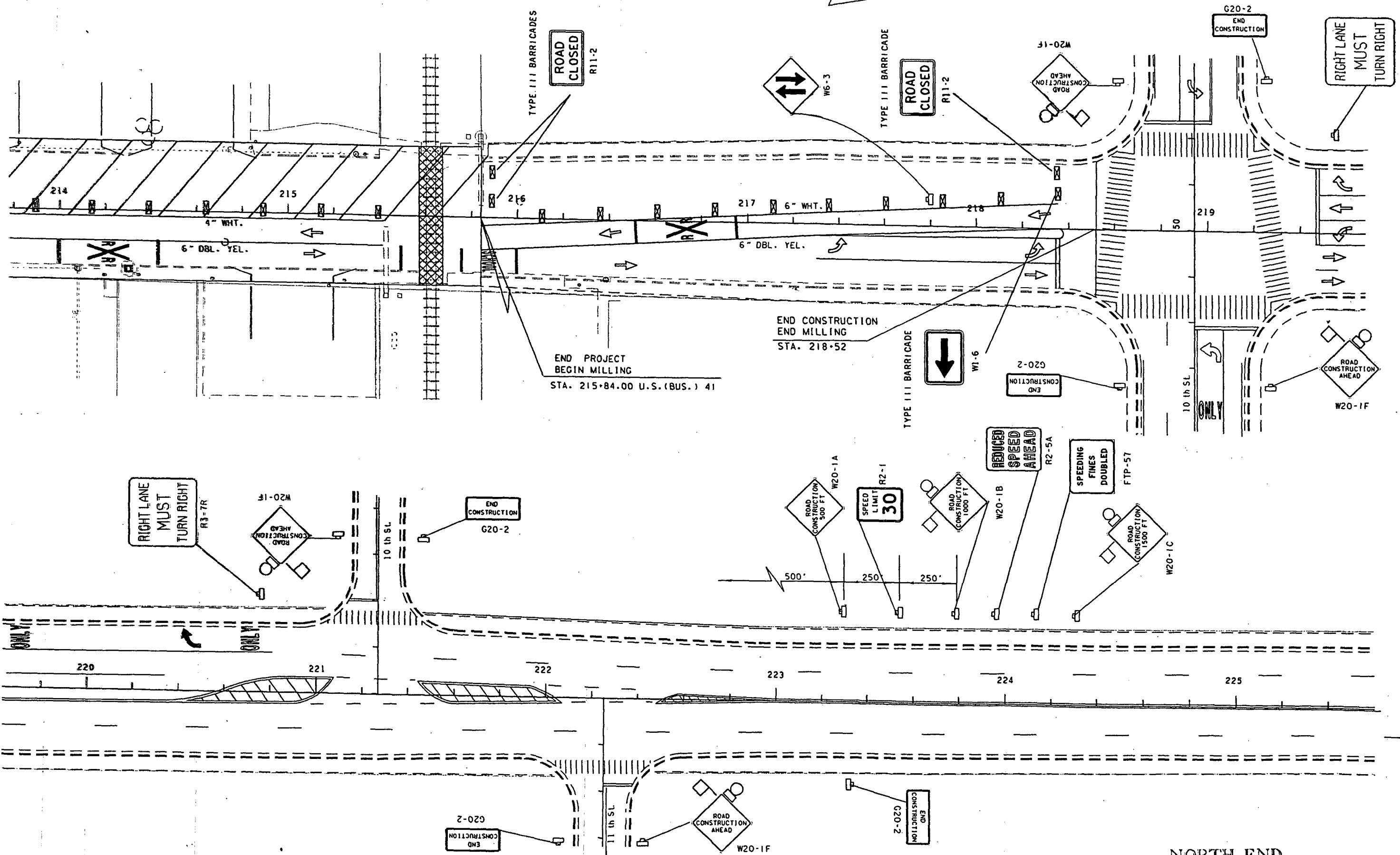
TYPICAL SIDE STREET SIGNING
FOR ROAD CLOSURE
N.T.S.

| REVISIONS | | | | | | | |
|-----------|----|-------------|------|----|-------------|------|----|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY |
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|---------------|------|------|------------|------|------|
| DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
| CHECKED BY | | | CHECKED BY | | |
| SUPERVISED BY | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY: *[Signature]*
DATE: 5/13/97

NORTH END
TRAFFIC CONTROL PLAN
PHASE I



DATE OF REVISION: 5/13/17

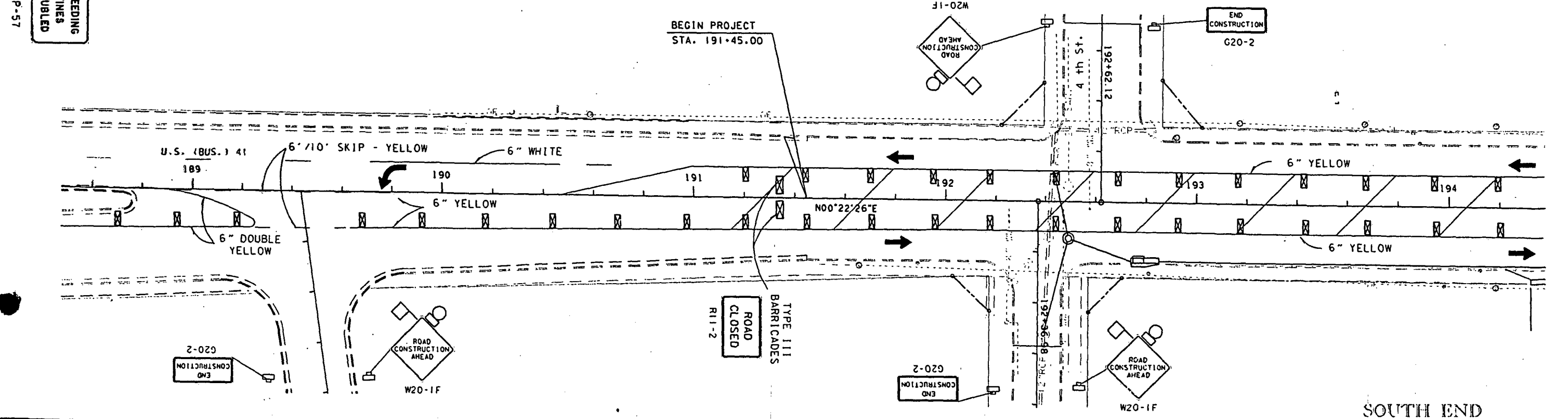
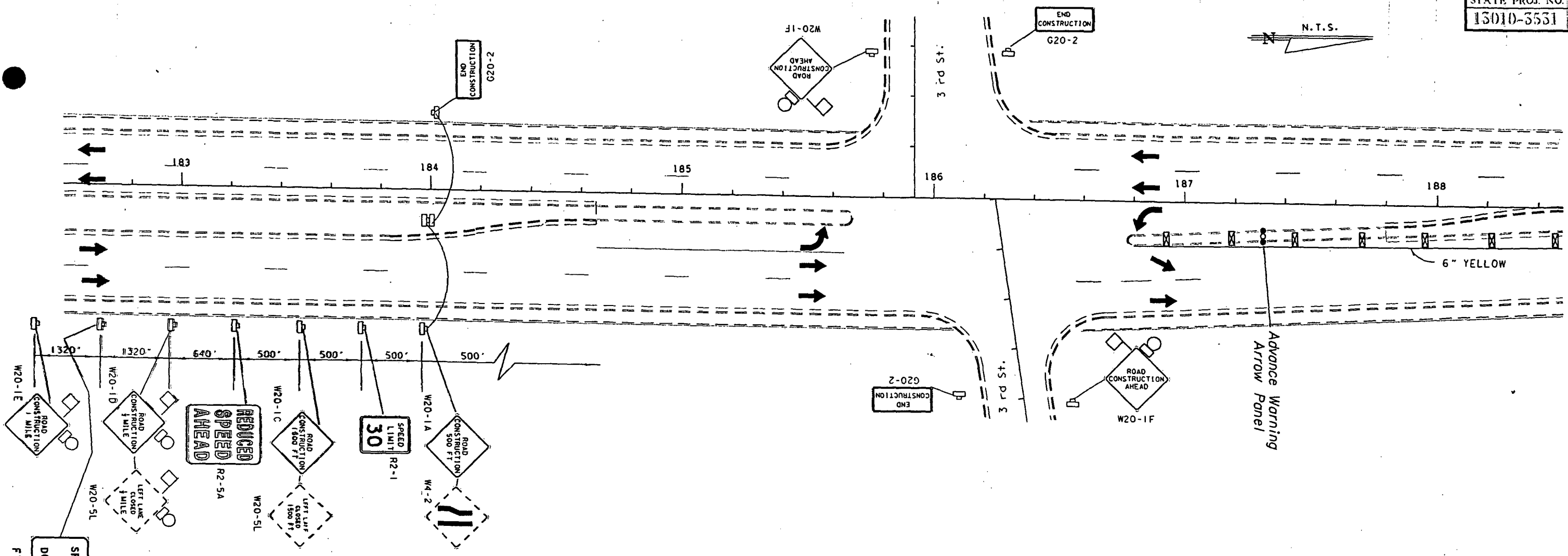
| DATE | | BY | | DESCRIPTION | |
|------|--|----|--|-------------|--|
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| DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE |
|-------------|------|------|----------|------|------|
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| APPROVED | DATE |
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NORTH END
 TRAFFIC CONTROL PLAN
 PHASE I

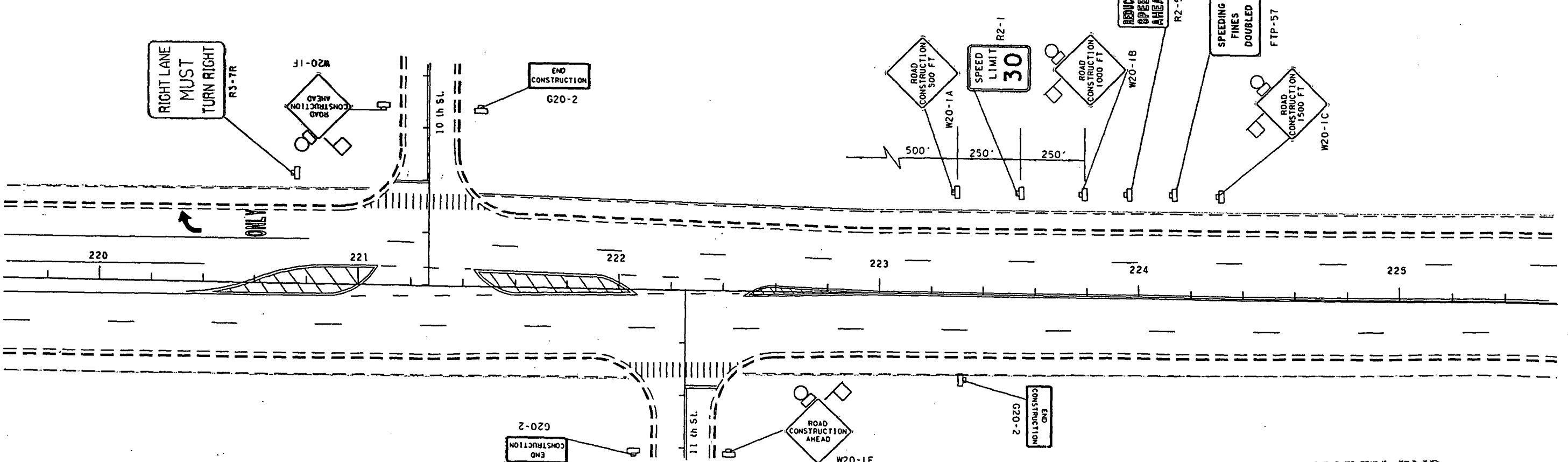
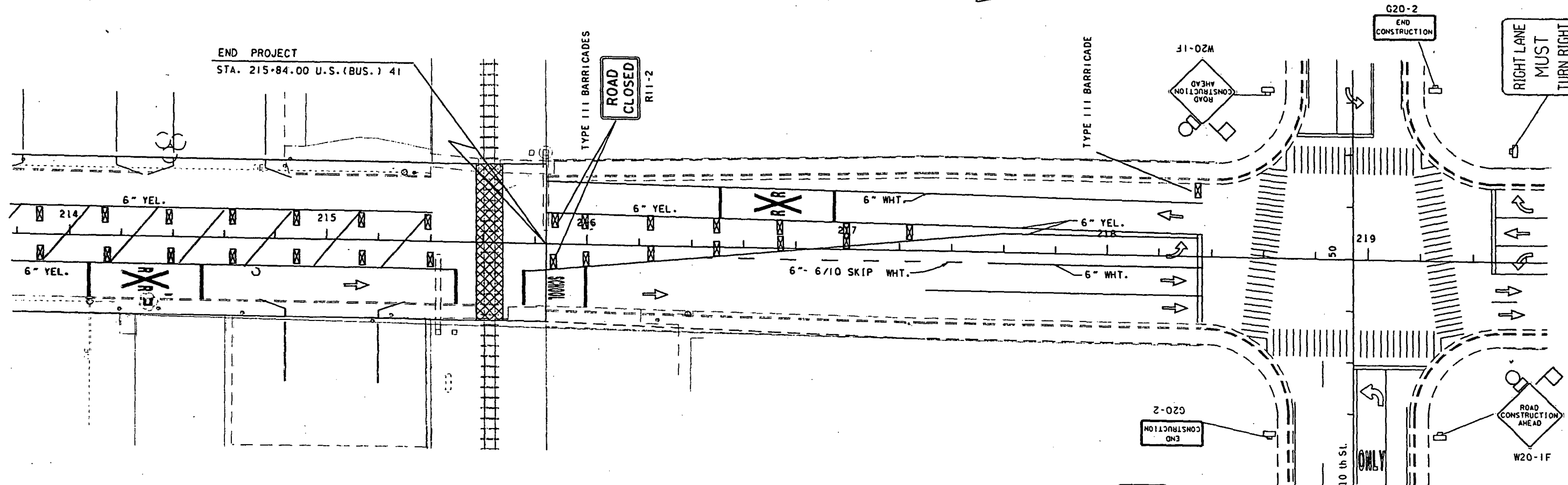
FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED: *[Signature]*
 DATE: 5/13/17



SOUTH END

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DESIGNED BY | NAME | DATE | DRAWN BY | NAME | DATE | APPROVED BY | DATE |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|-------------|------|------|----------|------|------|-------------|------|
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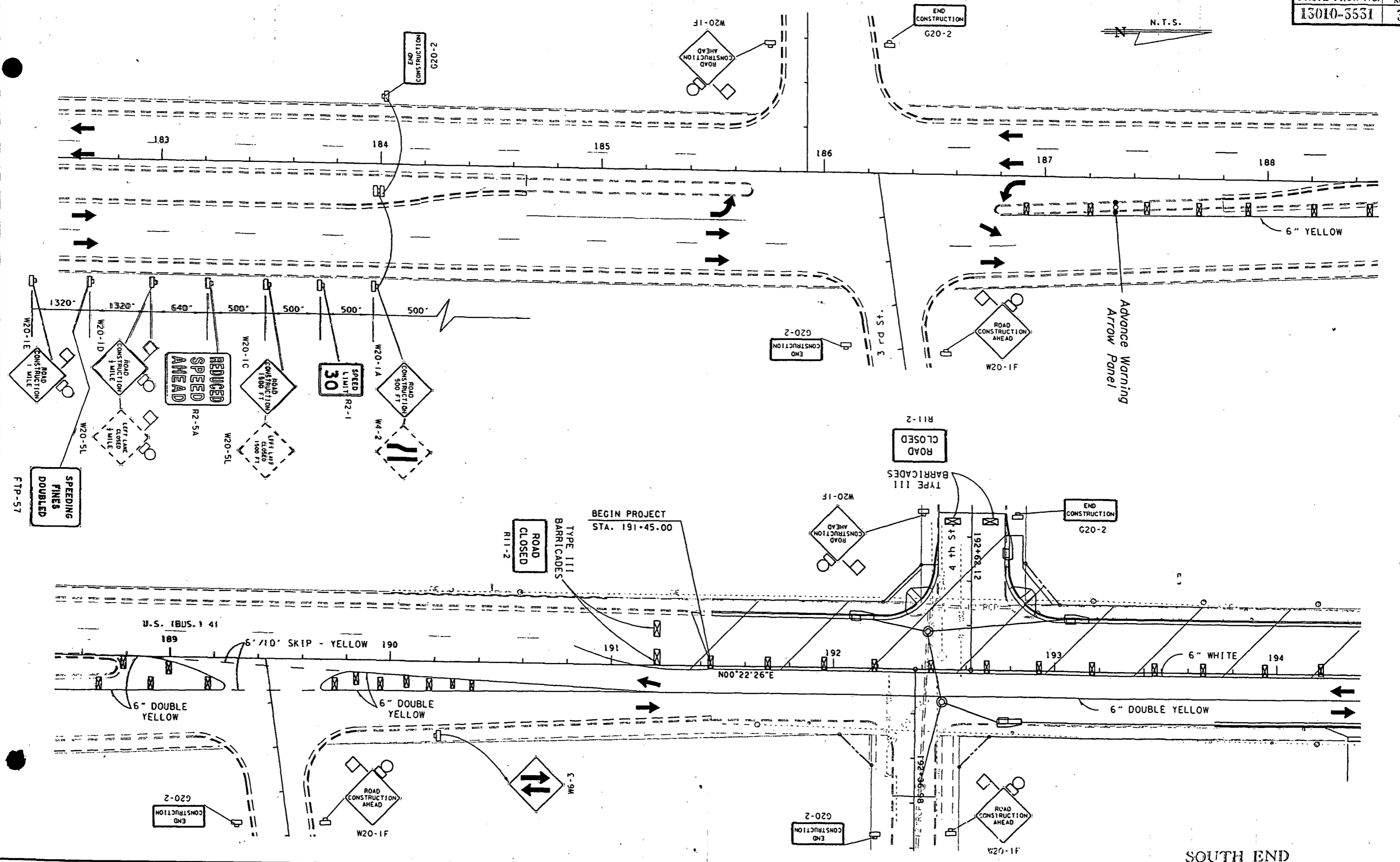
FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. [Signature]*
 DATE: 5/13/97
TRAFFIC CONTROL PLAN (PHASE II)



NORTH END
 TRAFFIC CONTROL PLAN
 PHASE II

| REVISIONS | | | | DESIGNED BY | | | | DRAWN BY | | | | APPROVED BY | | | |
|-----------|----|-------------|--|-------------|------|------|------|----------|------|------|------|-------------|------|--|--|
| DATE | BY | DESCRIPTION | | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | | |
| | | | | | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *[Signature]*
 DATE: 5/13/02



BEGIN PROJECT
STA. 191+45.00

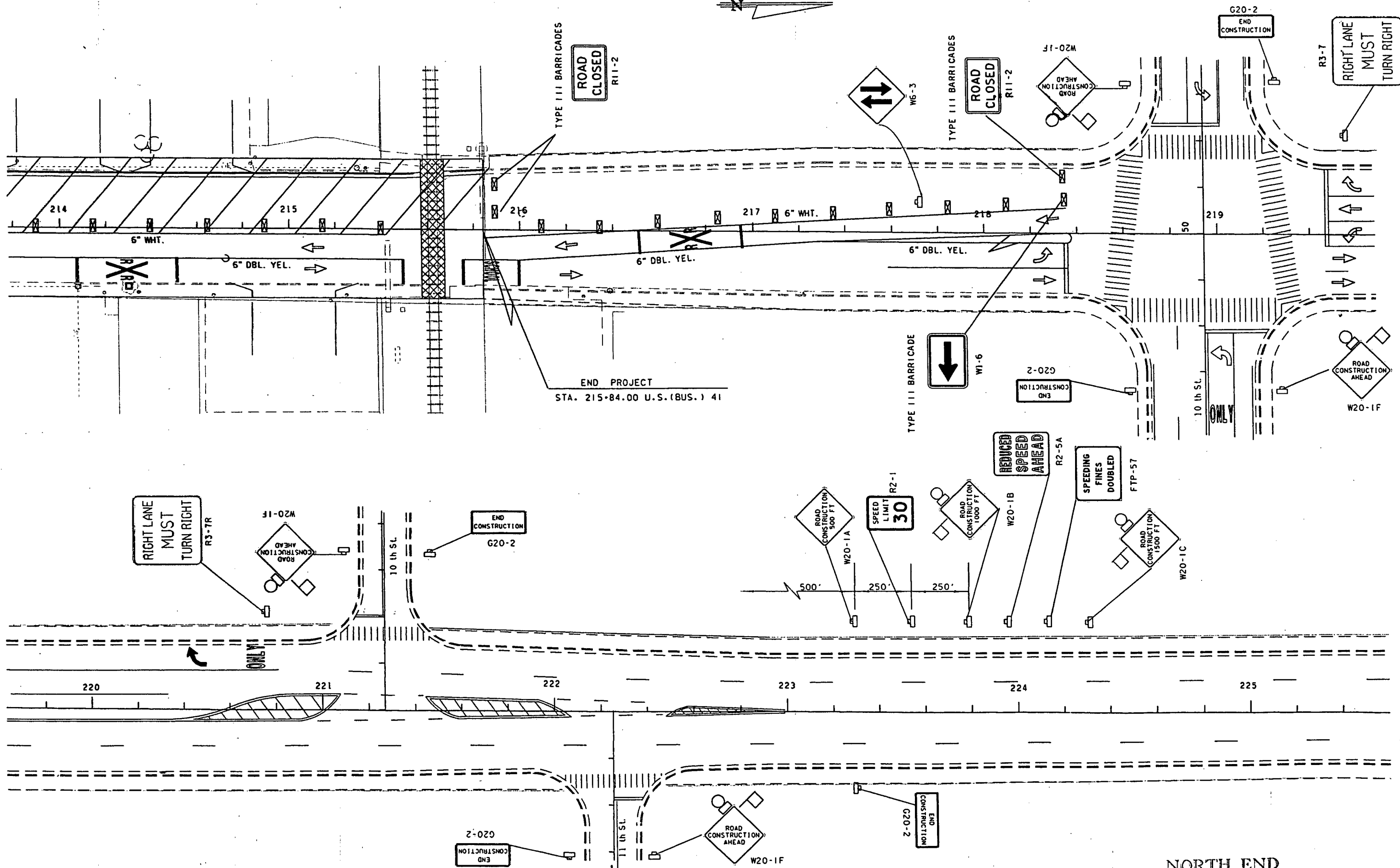
SOUTH END

DATE: 11/27/97 BY: J. B. BROWN

| REVISIONS | | | | DESIGNED BY | | | | DRAWN BY | | | | APPROVED | | | |
|-----------|----|-------------|------|-------------|-------------|------|----|----------|----|------|----|----------|----|--|--|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DATE | BY | DATE | BY | DATE | BY | | |
| | | | | | | | | | | | | | | | |

TRAFFIC CONTROL PLAN
(PHASE III)

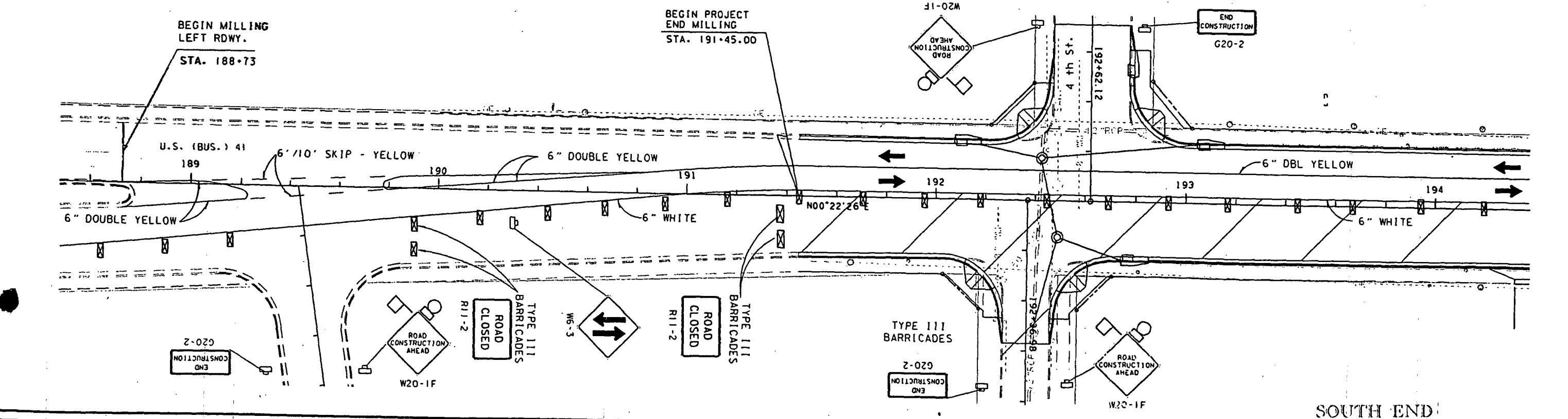
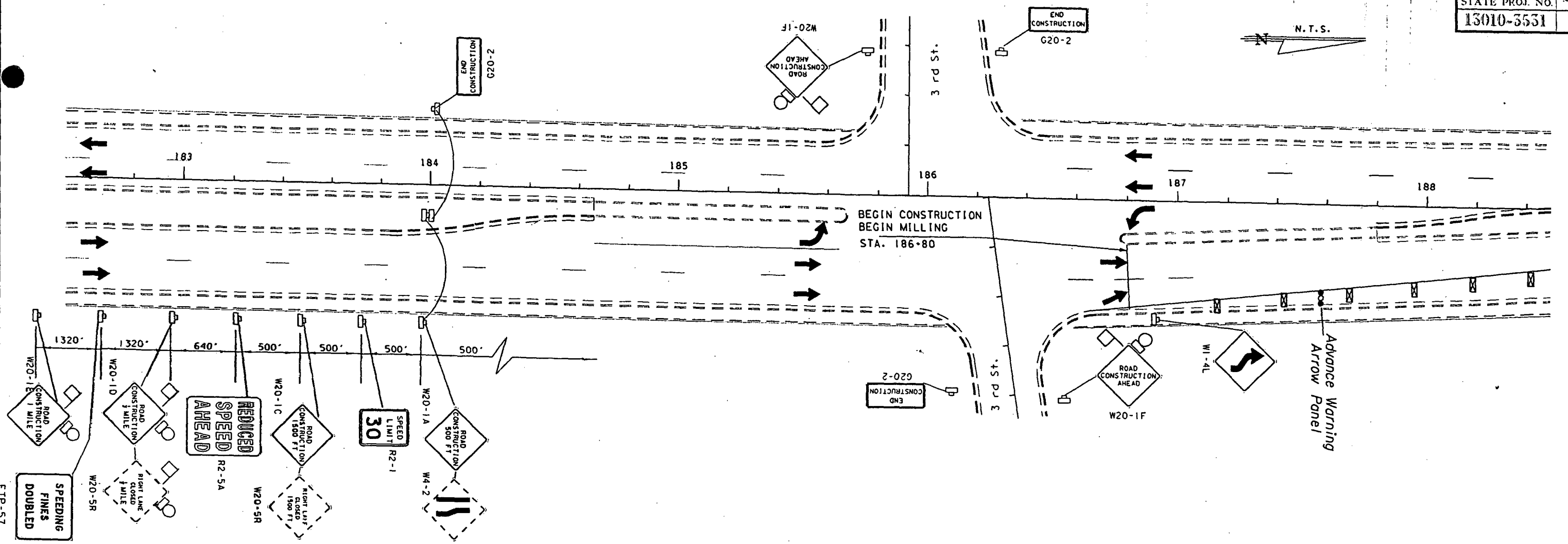
FLORIDA DEPARTMENT OF
TRANSPORTATION
APPROVED: *[Signature]*
DATE: 5/18/97



NORTH END
TRAFFIC CONTROL PLAN
PHASE III

| REVISIONS | | | | DESIGNED BY | | | | DRAWN BY | | | | APPROVED | | | |
|-----------|----|-------------|--|-------------|------|------|------|----------|------|------|------|----------|------|--|--|
| DATE | BY | DESCRIPTION | | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | | |
| | | | | | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED: *Moses Smith*
 DATE: 5/13/17



SOUTH END

| REVISIONS | | | | DESIGNED BY | | | | DRAWN BY | | | | APPROVED BY | | | |
|-----------|----|-------------|--|-------------|------|------|------|----------|------|------|------|-------------|------|--|--|
| DATE | BY | DESCRIPTION | | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | NAME | DATE | | |
| | | | | | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *[Signature]*
 DATE: 5/13/97

TRAFFIC CONTROL PLAN
 (PHASE IV)

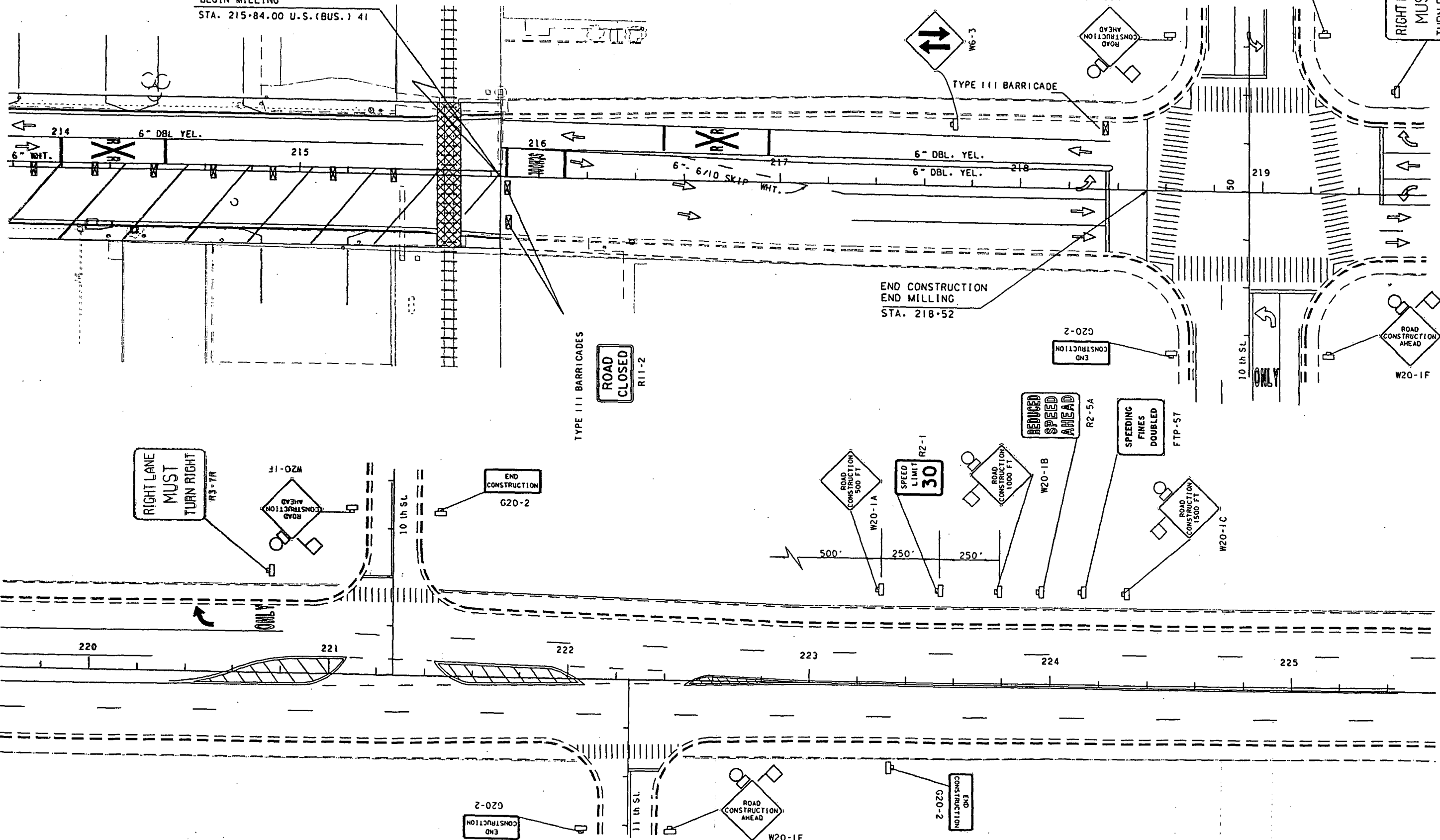
FTP-57

45070915W 1555 000 001 555
 7-2 21 000000 000 000 000



END PROJECT
BEGIN MILLING
STA. 215+84.00 U.S. (BUS.) 41

END CONSTRUCTION
END MILLING
STA. 218+52



NORTH END
TRAFFIC CONTROL PLAN
PHASE IV

| REVISIONS | | | | DESIGNED BY | | DRAWN BY | | APPROVED BY | | DATE | |
|-----------|------|-------------|----|-------------|------|----------|------|-------------|------|------|------|
| NO. | DATE | DESCRIPTION | BY | NAME | DATE | NAME | DATE | NAME | DATE | DATE | DATE |
| | | | | | | | | | | | |
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FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Monica M. [Signature]*
 DATE: 5/13/97

PHASE I

5TH STREET

ADJUST TWO (2) NORTHBOUND AND TWO (2) SOUTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANES. WIRE SIGNAL HEADS TO SYSTEM UTILIZING LINEAR SIGNAL CABLE. REMOVE THREE (3) SIGNS. INSTALL ONE (1) TYPE "F" LOOP ON EAST APPROACH.

7TH STREET

ADJUST TWO (2) NORTHBOUND AND TWO (2) SOUTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANES. WIRE SIGNAL HEADS TO SYSTEM UTILIZING LINEAR SIGNAL CABLE. REMOVE THREE (3) SIGNS. INSTALL TWO (2) TYPE "F" LOOPS ON EAST APPROACH.

10TH STREET

ADJUST TWO (2) NORTHBOUND AND ONE (1) SOUTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANES. CONNECT NEW SIGNAL CABLE TO EXISTING CABLE AND STRAP NEW CABLE TO OUTSIDE OF MAST ARMS. REMOVE TWO (2) SIGNS ON 8TH AVE. INSTALL ONE (1) TYPE "F" LOOP FOR NORTH/WEST LEFT TURN.

PHASE II

5TH STREET

ADJUST TWO (2) NORTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANE.

7TH STREET

ADJUST TWO (2) NORTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANE.

10TH STREET

ADJUST NORTHBOUND 5-SECTION SIGNAL HEAD TO MATCH TEMPORARY LANE. CONNECT NEW SIGNAL CABLE TO EXISTING SIGNAL CABLE AND STRAP NEW SIGNAL CABLE TO OUTSIDE OF MAST ARM. UTILIZE OLD EXISTING LOOP FOR LEFT TURN MOVEMENT.

PHASE III

5TH STREET

REMOVE ALL SIGNAL HEADS FROM EXISTING SPAN WIRES AND INSTALL USING NEW BRACKETS ON MAST ARMS WITH TEMPORARY SIGNAL CABLE UTILIZING NEW UNDERGROUND CONDUIT, ATTACH CABLE TO OUTSIDE OF MAST ARMS. INSTALL ONE (1) TYPE "F" LOOP ON EAST APPROACH AND TWO (2) TYPE "F" LOOPS ON WEST APPROACH. SIGNAL CONTRACTOR SHALL CONSTRUCT MAST ARMS, CONDUIT, PULL BOXES, ELECTRICAL POWER SERVICE AND CONTROLLER. THIS SHALL BE PAID FOR UNDER PAY ITEM NO.'S IN SIGNAL PLANS.

7TH STREET

REMOVE ALL SIGNAL HEADS FROM EXISTING SPAN WIRES AND INSTALL USING NEW BRACKETS ON MAST ARMS WITH TEMPORARY SIGNAL CABLE UTILIZING NEW UNDERGROUND CONDUIT, ATTACH CABLE TO OUTSIDE OF MAST ARMS. INSTALL ONE (1) TYPE "F" LOOP ON EAST APPROACH AND TWO (2) TYPE "F" LOOPS ON WEST APPROACH. SIGNAL CONTRACTOR SHALL CONSTRUCT MAST ARMS, CONDUIT, PULL BOXES, ELECTRICAL POWER SERVICE AND CONTROLLER. THIS SHALL BE PAID FOR UNDER PAY ITEM NO.'S IN SIGNAL PLANS.

10TH STREET

ADJUST NORTHBOUND 5-SECTION HEAD TO MATCH TEMPORARY LANE. UTILIZE RECENTLY INSTALLED EXISTING LOOP FOR LEFT TURN MOVEMENT. CONNECT NEW SIGNAL CABLE TO EXISTING SIGNAL CABLE AND STRAP NEW CABLE TO OUTSIDE OF MAST ARMS.

PHASE IV

5TH STREET

ADJUST TWO (2) NORTHBOUND AND TWO (2) SOUTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANES. WIRE TEMPORARY SIGNAL HEADS TO SYSTEM UTILIZING LINEAR SIGNAL CABLE ATTACHING SIGNAL CABLE TO OUTSIDE OF MAST ARMS. INSTALL ONE (1) TYPE "F" LOOP ON EAST APPROACH AND TWO (2) TYPE "F" LOOPS ON WEST APPROACH.

7TH STREET

ADJUST TWO (2) NORTHBOUND AND TWO (2) SOUTHBOUND SIGNAL HEADS TO MATCH TEMPORARY LANES. WIRE TEMPORARY SIGNAL HEADS TO SYSTEM UTILIZING LINEAR SIGNAL CABLE ATTACHING SIGNAL CABLE TO OUTSIDE OF MAST ARMS. INSTALL ONE (1) TYPE "F" LOOP ON EAST APPROACH AND TWO (2) TYPE "F" LOOPS ON WEST APPROACH.

10TH STREET

ADJUST TWO (2) NORTHBOUND SIGNAL HEADS TO CONNECT TO EXISTING SIGNAL CABLE. REMOVE TEMPORARY SIGNAL CABLE. INSTALL ONE (1) TYPE "F" LOOP FOR NORTH/WEST LEFT TURN.

PHASE V

5TH STREET AND 7TH STREET

SIGNAL CONTRACTOR TO INSTALL ALL NEW LOOPS PRIOR TO FRICTION COURSE AND ALL ADDITIONAL EQUIPMENT AS SHOWN IN SIGNAL PLANS. REMOVE ALL TEMPORARY SIGNAL HEADS AND WIRING.

10TH STREET

ADJUST TWO (2) SOUTHBOUND SIGNAL HEADS CONNECTING TO EXISTING SIGNAL CABLE. REMOVE TEMPORARY SIGNAL CABLE. INSTALL PREVIOUSLY REMOVED SIGNS.

ITEM NO. TOTALS

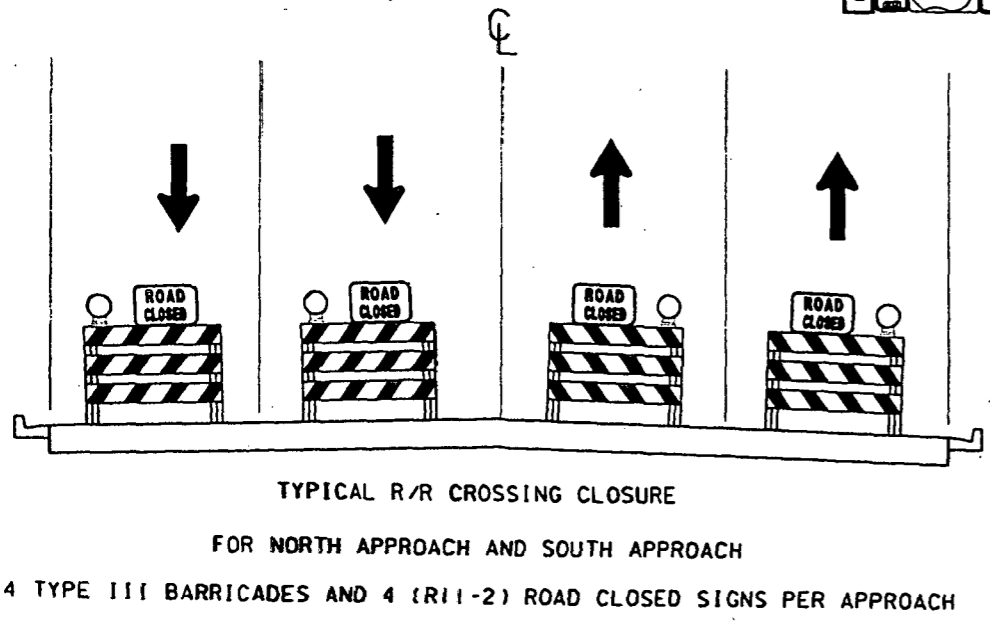
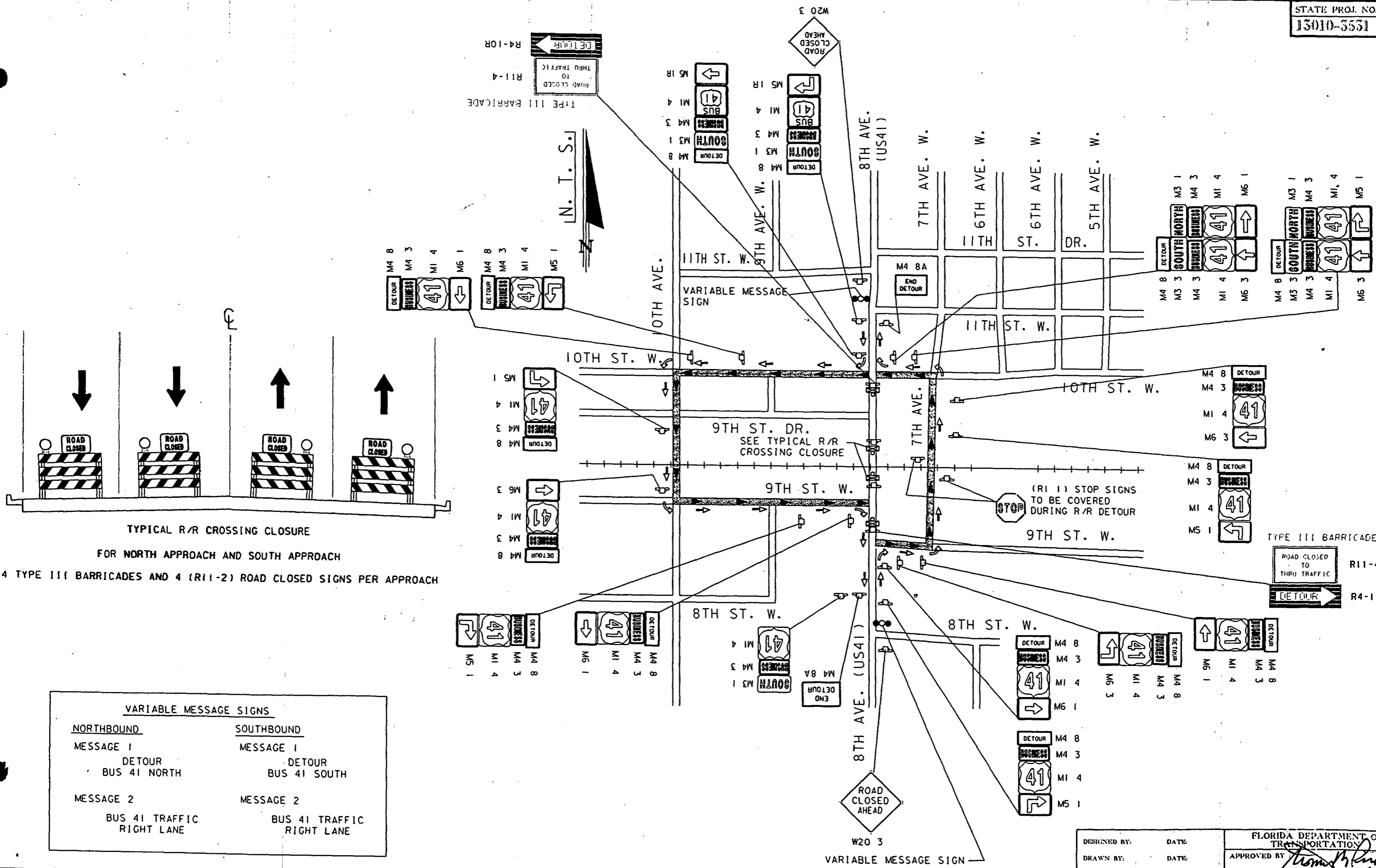
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|------------|----------------------------------|--------|
| A632-6-1 | SIGNAL CABLE (F&I) | 306 LF |
| A650-1-331 | SIGNAL HEAD (INSTALL ONLY) | 45 AS |
| A659-103 | SIGNAL HEAD AUXILIARY (BRACKETS) | 16 EA |
| A660-2-106 | TYPE "F" LOOPS | 17 AS |
| A690-10 | REMOVE SIGNAL HEADS | 45 EA |
| A700-48-60 | REMOVE SIGNS | 8 EA |
| A700-48-28 | SIGNS (INSTALL ONLY) | 2 EA |

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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| | | |
|------------------|--------------|--|
| DESIGNED BY: MAM | DATE: 9-1-96 | FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED BY: <i>Thomas H. Kibler</i> DATE: 5/13/97 |
| DRAWN BY: GEC | DATE: 9-1-96 | |
| CHECKED BY: CRB | DATE: 9-1-96 | |

FLORIDA DEPARTMENT OF
TRANSPORTATION

TRAFFIC CONTROL PLAN
TRAFFIC SIGNAL PLAN



VARIABLE MESSAGE SIGNS

| NORTHBOUND | SOUTHBOUND |
|---|---|
| MESSAGE 1 DETOUR BUS 41 NORTH | MESSAGE 1 DETOUR BUS 41 SOUTH |
| MESSAGE 2 BUS 41 TRAFFIC RIGHT LANE | MESSAGE 2 BUS 41 TRAFFIC RIGHT LANE |

DATE: 5/13/97

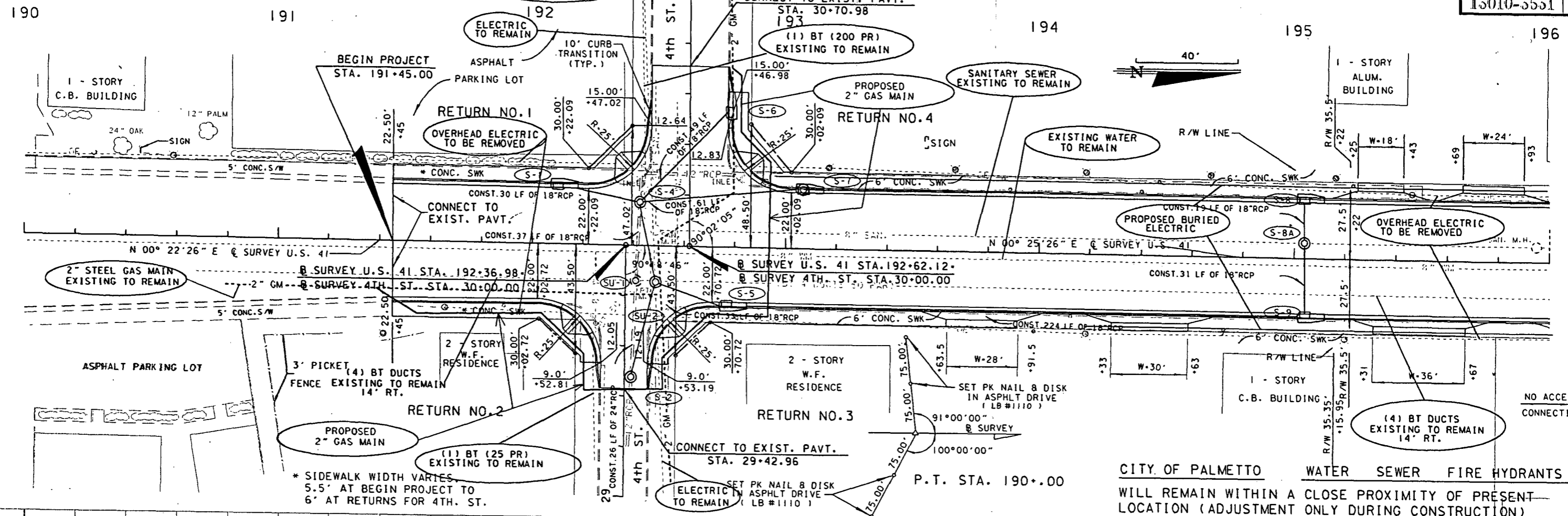
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|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
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FLORIDA DEPARTMENT OF TRANSPORTATION

DESIGNED BY: _____ DATE: _____
 DRAWN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. ...*
 DATE: 5/13/97

**TRAFFIC CONTROL PLAN
 DETOUR PLAN**

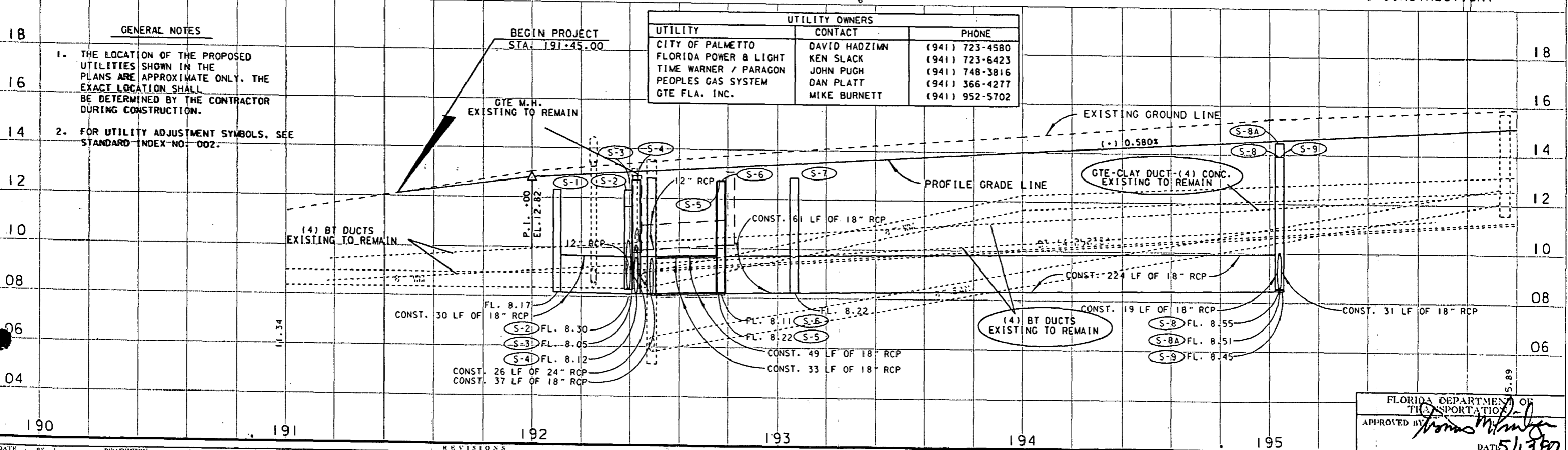


* SIDEWALK WIDTH VARIES.
5.5' AT BEGIN PROJECT TO
6' AT RETURNS FOR 4TH. ST.

CITY OF PALMETTO WATER SEWER FIRE HYDRANTS
WILL REMAIN WITHIN A CLOSE PROXIMITY OF PRESENT-
LOCATION (ADJUSTMENT ONLY DURING CONSTRUCTION)

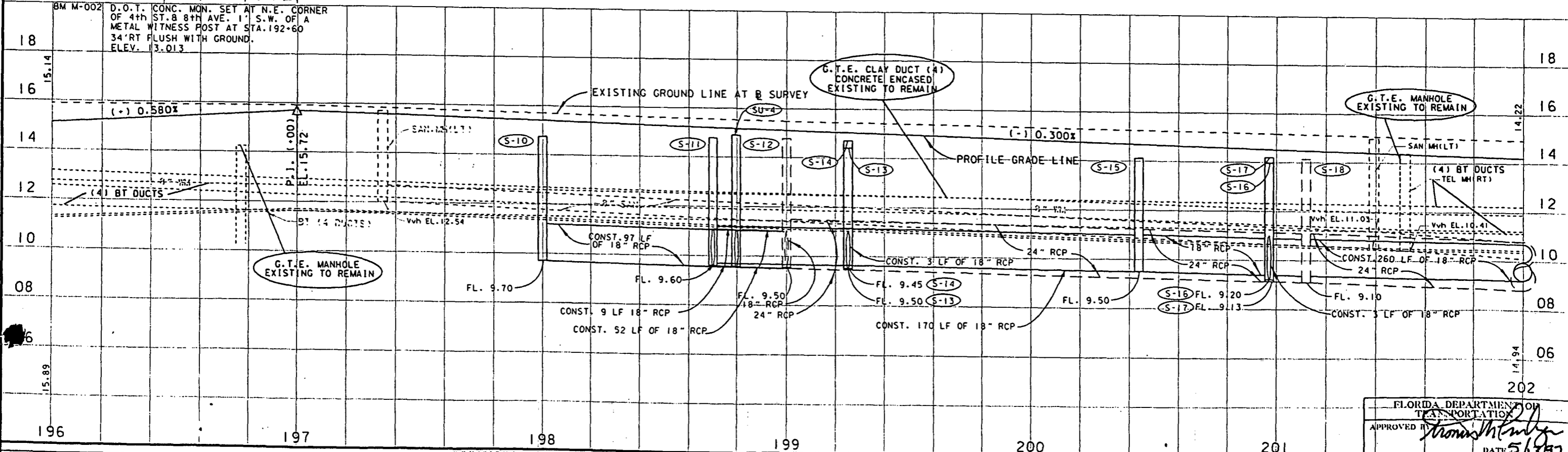
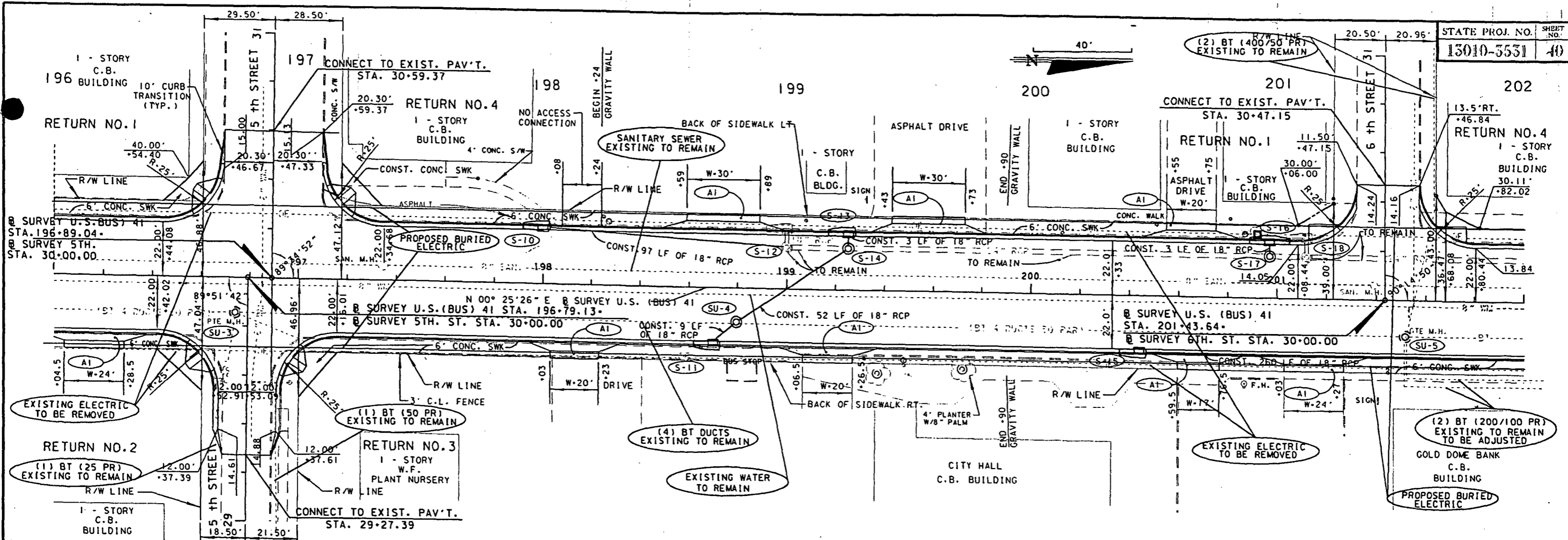
- 18 GENERAL NOTES
1. THE LOCATION OF THE PROPOSED UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
 2. FOR UTILITY ADJUSTMENT SYMBOLS, SEE STANDARD INDEX NO. 002.

| UTILITY OWNERS | | |
|-----------------------|--------------|----------------|
| UTILITY | CONTACT | PHONE |
| CITY OF PALMETTO | DAVID HADZIM | (941) 723-4580 |
| FLORIDA POWER & LIGHT | KEN SLACK | (941) 723-6423 |
| TIME WARNER / PARAGON | JOHN PUGH | (941) 748-3816 |
| PEOPLES GAS SYSTEM | DAN PLATT | (941) 366-4277 |
| GTE FLA. INC. | MIKE BURNETT | (941) 952-5702 |



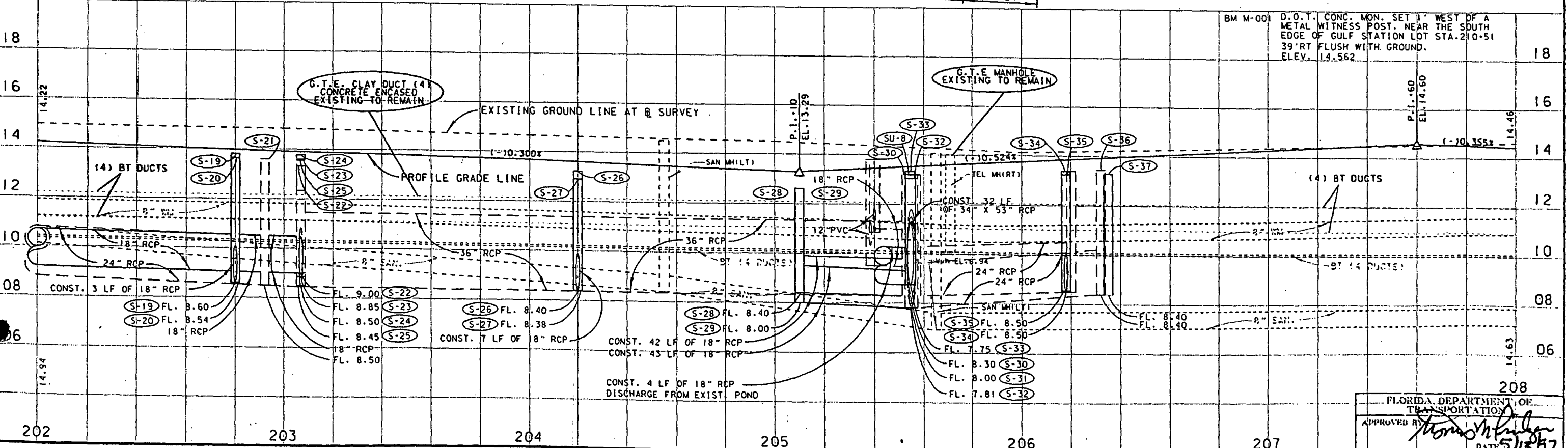
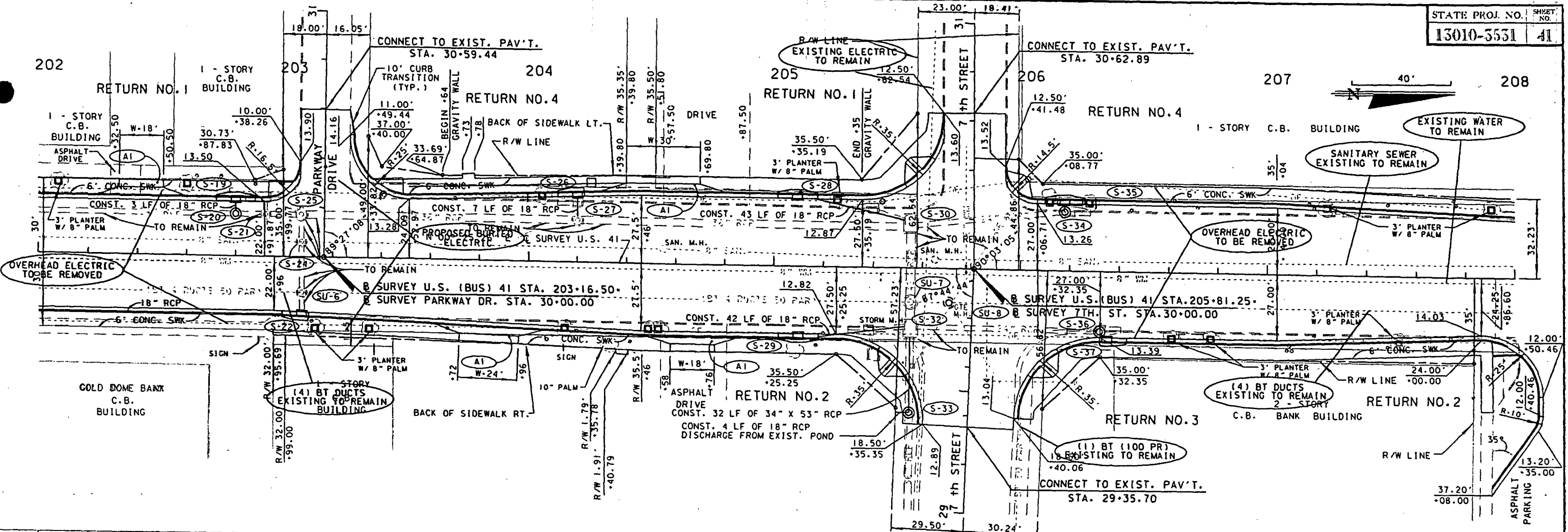
FLORIDA DEPARTMENT OF TRANSPORTATION
APPROVED BY *Thomas M. [Signature]*
DATE 5/13/90

| DATE | | BY | | DESCRIPTION | |
|------|--|----|--|-------------|--|
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| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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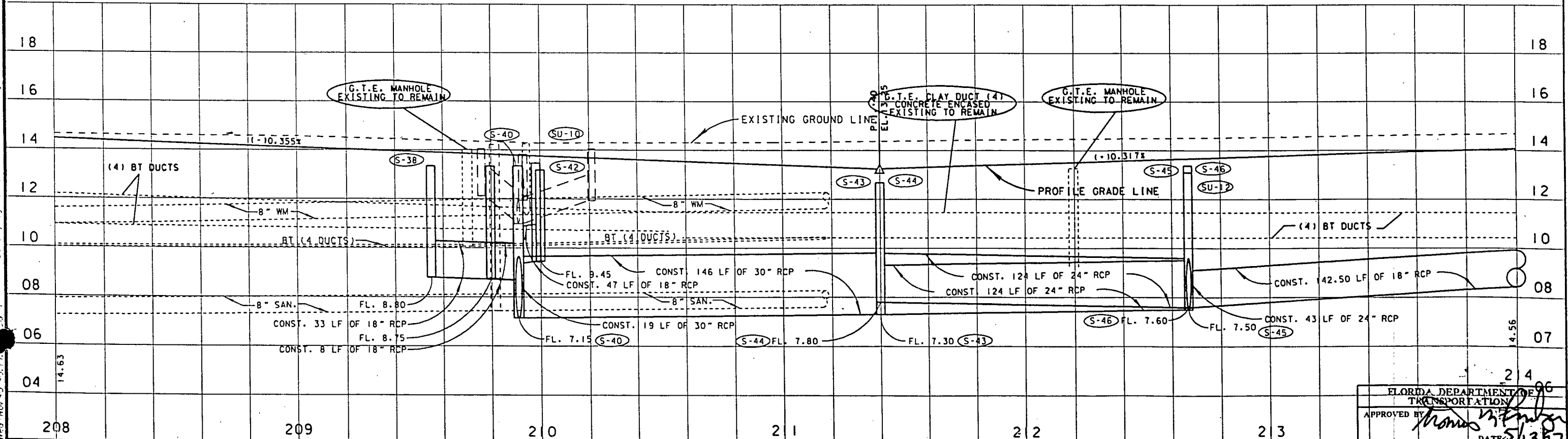
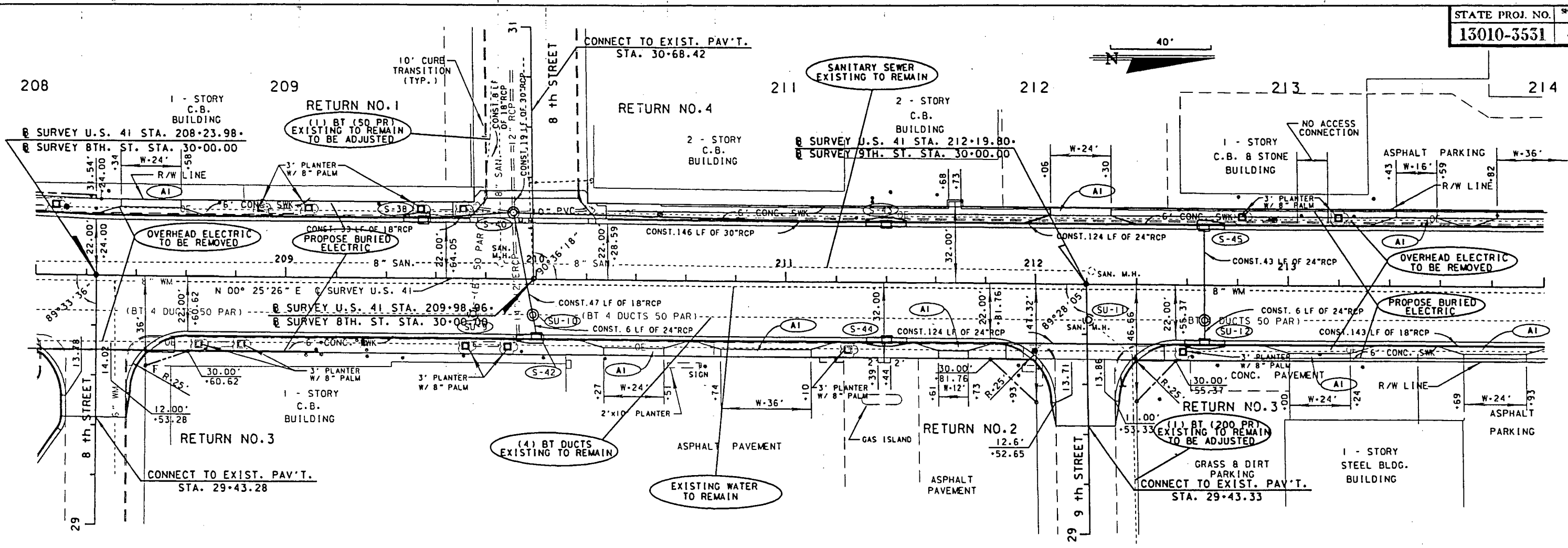
FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. ...*
 DATE: 5/13/97
 UTILITY ADJUSTMENTS



| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Thomas M. Fisher*
 DATE: 5/13/57

UTILITY ADJUSTMENTS



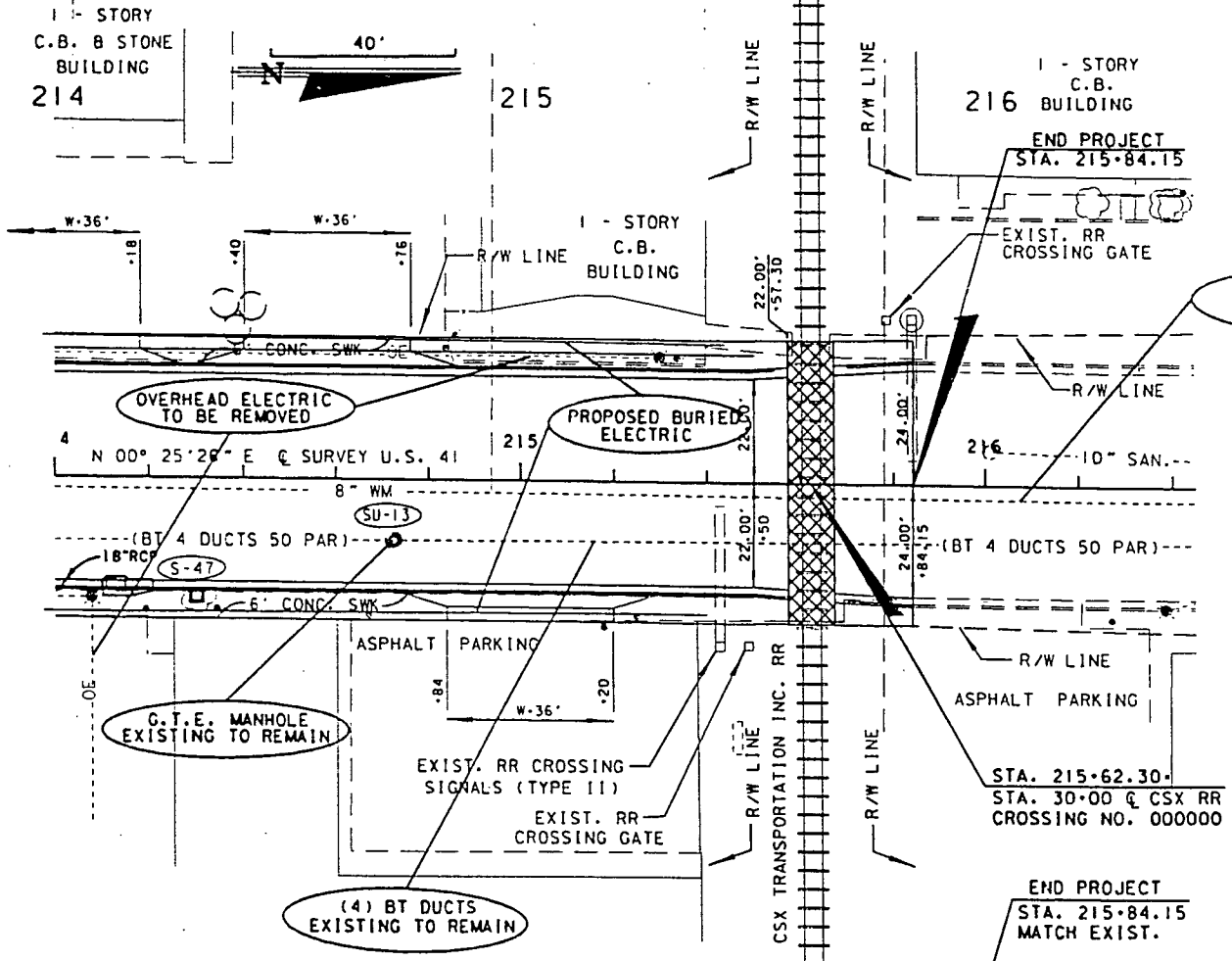
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| REVISIONS | | | | | | | | | | | |
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| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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FLORIDA DEPARTMENT OF TRANSPORTATION

UTILITY ADJUSTMENT

APPROVED BY *[Signature]* DATE 5/13/77

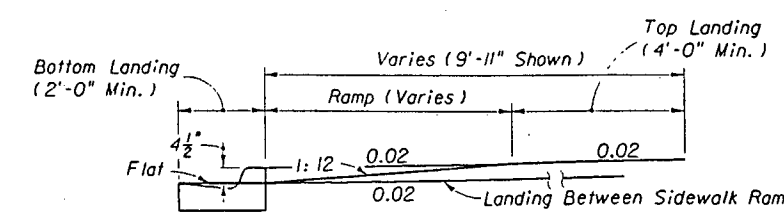
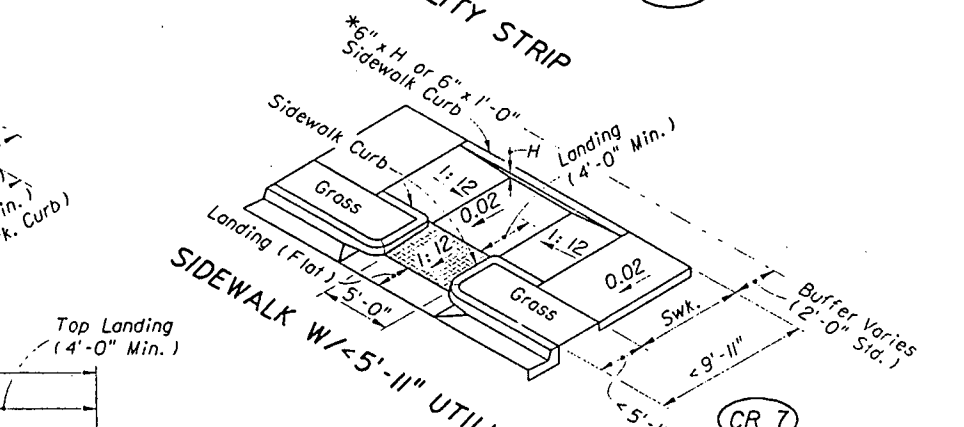
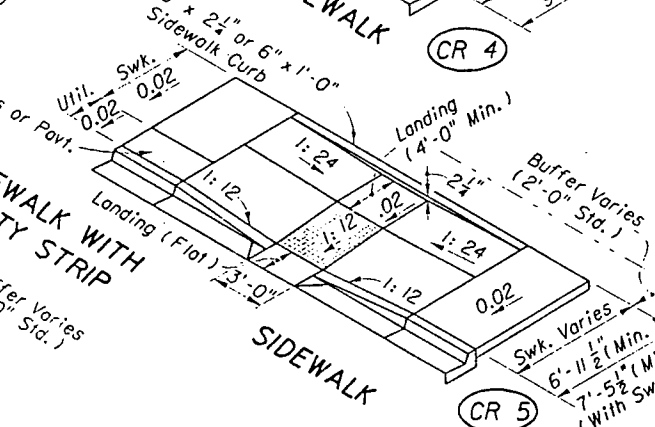
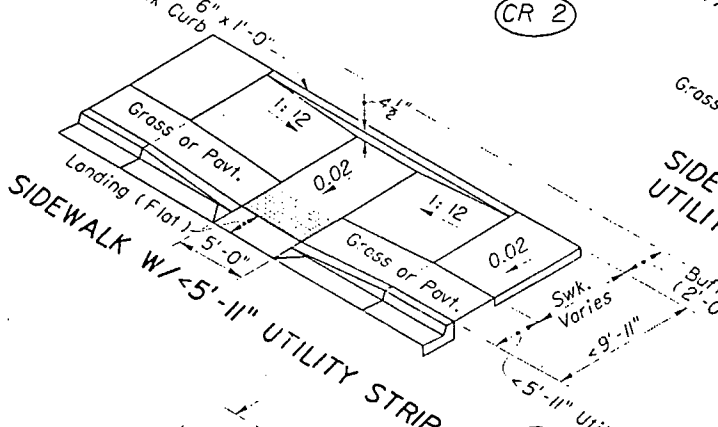
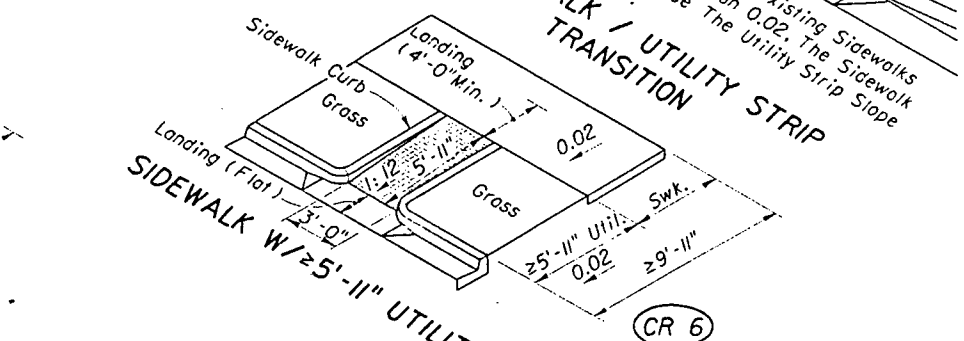
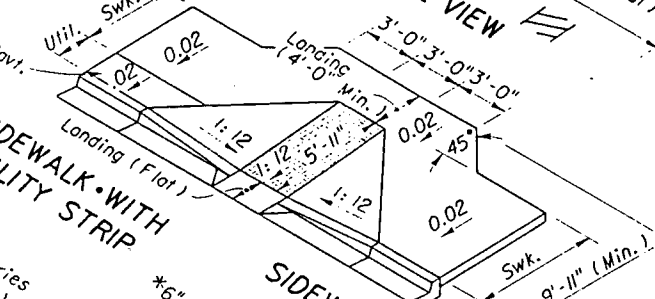
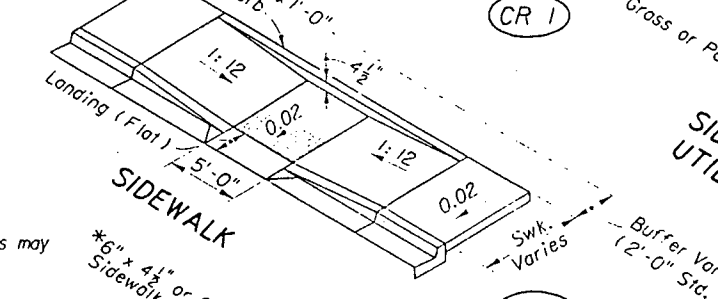
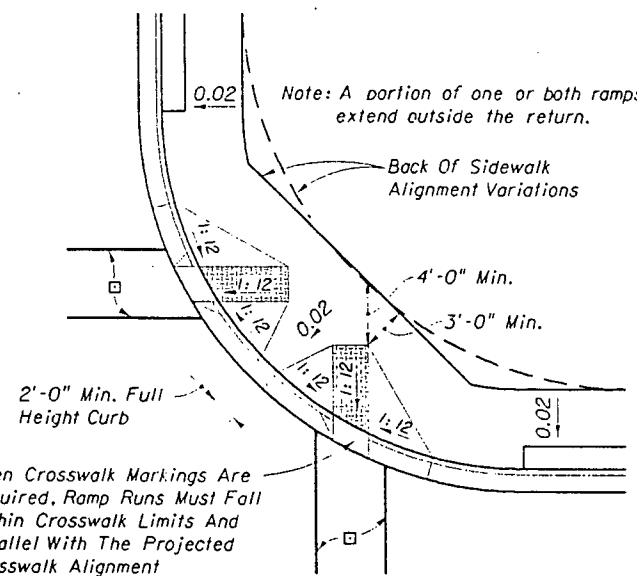
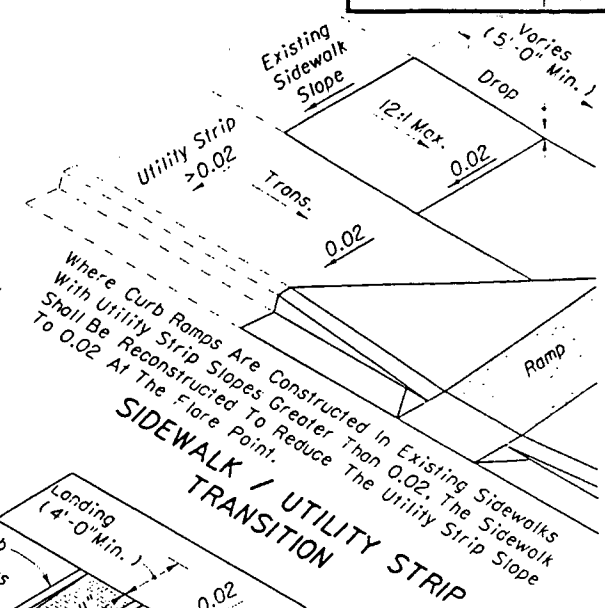
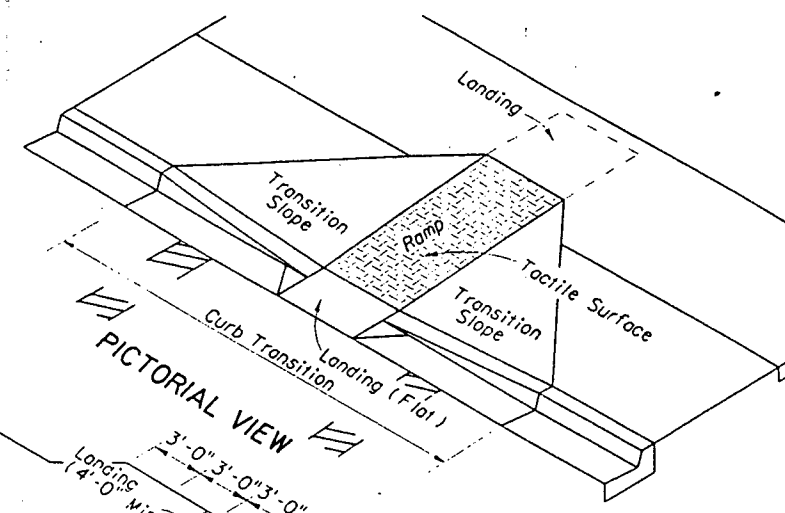
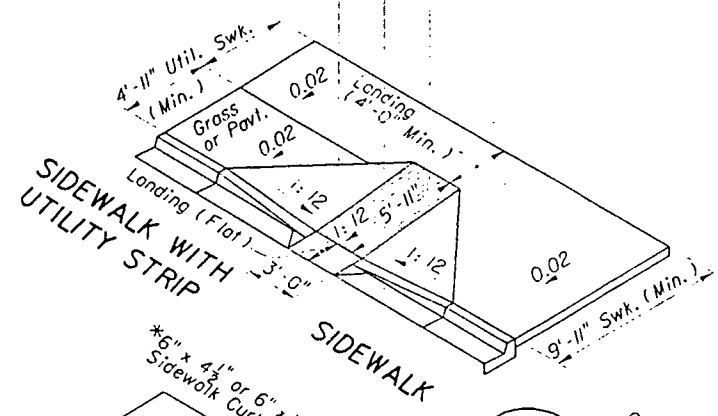
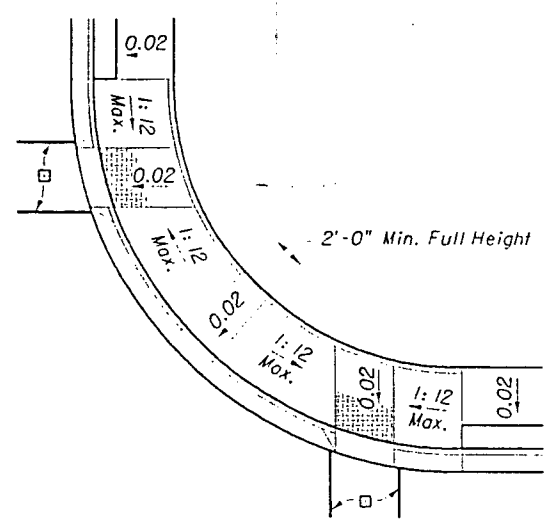


| | | |
|-----|---|-----|
| 18 | BM NO. 5 CUT IN SIDEWALK AT "BUDDY ROE'S LOUNGE" 79° RT. STA. 215+05.5 ON 8th AVE. ELEV. 15.535 | 18 |
| 16 | | 16 |
| 14 | EXISTING GROUND LINE P.L. 158.41 E.L. 14.58 P.L. 166.21 E.L. 14.58 | 14 |
| 12 | PROFILE GRADE LINE BT (4 DUCTS) | 12 |
| 10 | 10" SAN. | 10 |
| 08 | FL. 8.50 18" RCP | 08 |
| 07 | | 07 |
| 06 | | 06 |
| 214 | 215 | 216 |

Wed Nov 13 15:44:39 1996 /usr3/proj/13010/3531/utard05.dgn

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Norman H. Linber*
 DATE: 5/13/97

| REVISIONS | | | | | |
|-----------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | |
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TYPICAL PLACEMENT OF PUBLIC SIDEWALK CURB RAMPS AT CURBED RETURNS

*BACK OF SIDEWALK CURB IN ABSENCE OF ADEQUATE BUFFER OR ABUTTING STRUCTURE

SECTION THROUGH RAMP RUN AND LANDINGS

DIMENSIONAL FEATURES FOR PUBLIC SIDEWALK CURB RAMPS

GENERAL NOTES

- Public sidewalk curb ramps shall be constructed in the public right of way at locations that will provide continuous unobstructed pedestrian circulation paths to pedestrian areas, elements and facilities in the public right of way and to accessible pedestrian routes on adjacent sites. Curbed facilities with sidewalks and those without sidewalks are to have curb ramps constructed at all street intersections and at turnouts that have curbed returns. Partial curb returns shall extend to the limit prescribed by Index No. 515 to accommodate curb ramps. Ramps constructed at locations without sidewalks shall have a landing constructed at the top of each ramp, see Sheet 3 of 3.
- The location and orientation of curb ramps shall be as shown in the plans.
- Curb ramp running slopes shall not exceed 1:12 and cross slope shall not exceed 0.02. When altering existing pedestrian facilities where existing site development precludes the accommodation of a ramp slope of 1:12, a running slope between 1:12 and 1:10 is permitted for a rise of 6" maximum and a running slope of between 1:10 and 1:8 is permitted for a rise of 3" maximum. Where compliance with the requirements for cross slope cannot be fully met, the minimum feasible cross slope shall be provided.
- If a curb ramp is located where pedestrians must walk across the ramp, then the walk shall have transition slopes to the ramp; the maximum slope of the transitions shall be 1:12. Curb ramps with returned curbs may be used where pedestrians would not normally walk across the ramp, see Sheet 2 of 3.

- When curb ramps abut the back of curb a tactile surface shall be applied to the full width and length of the ramp. When landings abut the back of curb the tactile surface shall extend full width and 3'-0" back of the curb. Tactile surfaces shall be constructed by texturing to a depth not exceeding 1/8" by use of a tamp or roller fabricated with an imprinting surface of either 1" mesh 0.250 wire cloth (plain weave, conventional crimp), #6 expanded metal (standard) or 3 lb. expanded metal grating. Transition slopes are not to have tactile surfaces. Detectable surface requirements have been suspended. If reinstated the detectable surface requirements will replace the tactile surface requirements and notice will be by special provision.
- Where a curb ramp is constructed within existing curb, curb and gutter and/or sidewalk, the existing curb or curb and gutter shall be removed to the nearest joint beyond the curb transitions or to the extent that no remaining section of curb or curb and gutter is less than 5'-0" long. The existing sidewalk shall be removed to the nearest joint beyond the transition slope or walk around or to the extent that no remaining section of sidewalk is less than 5'-0" long.
- Alpha-numeric identifications are for reference (plans, permits, etc.).

- Public sidewalk curb ramps are to be paid for as follows: Ramps, reconstructed sidewalks, walk around sidewalks, sidewalk landings and sidewalk curbs are to be paid for under the contract unit price for Sidewalk Concrete, (___" Thick), SY. Curb transitions and reconstructed curbs are to be paid for under the contract unit price for the parent curb, i.e., Curb Conc., (Type __), LF or Curb and Gutter Conc., (Type __), LF.

When a separate pay item for the removal and disposal of existing curb, curb and gutter and/or sidewalk is not provided in the plans, the cost of removal and disposal of these features shall be included in the contract unit price for new curb, curb and gutter and/or sidewalk respectively.

DESIGN NOTE
1. Special attention must be directed to lower landing drainage (return profiles; number of inlets; inlet types and inlet locations).

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
ROAD DESIGN

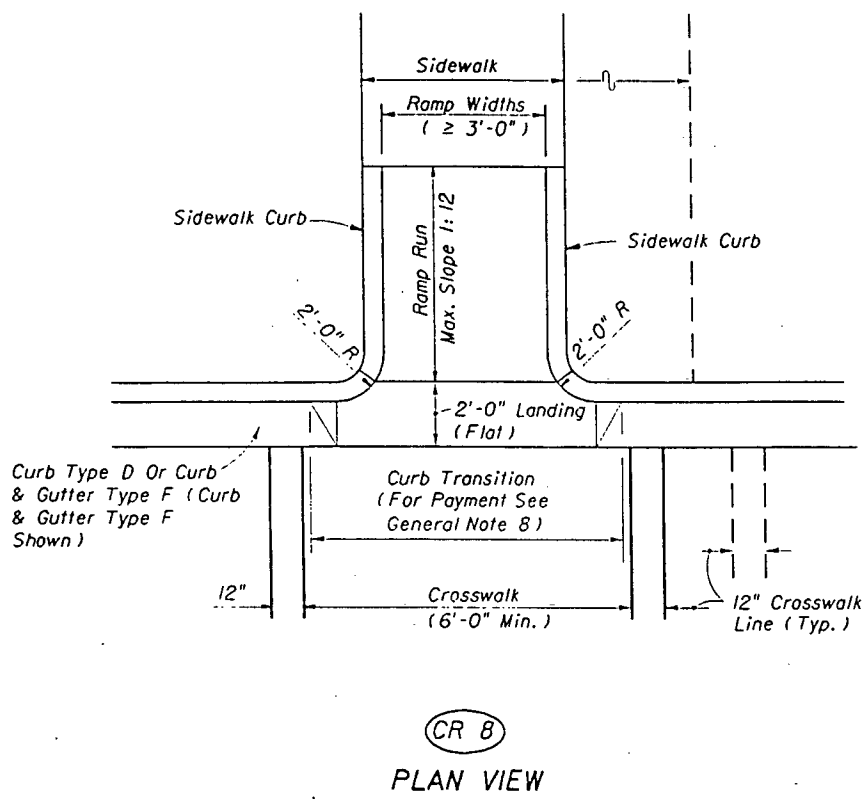
PUBLIC SIDEWALK CURB RAMPS

INTERIM STANDARD

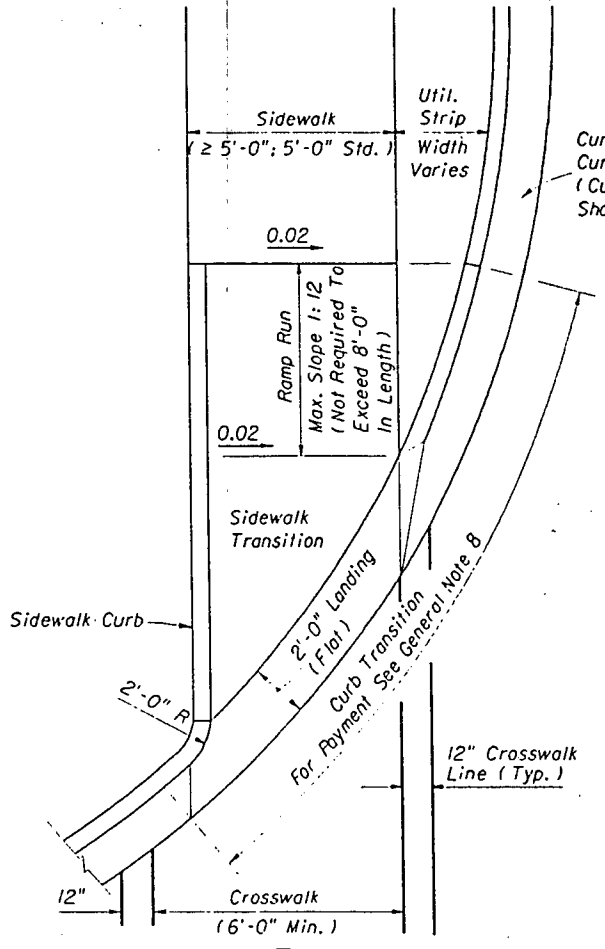
APPROVED BY *Juddi Simmons*
STATE ROADWAY DESIGN ENGINEER

THIS SHEET REPLACES SHEET NO. 1 OF 3 OF INDEX NO. 304 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, BOOKLET DATED JANUARY 1994.

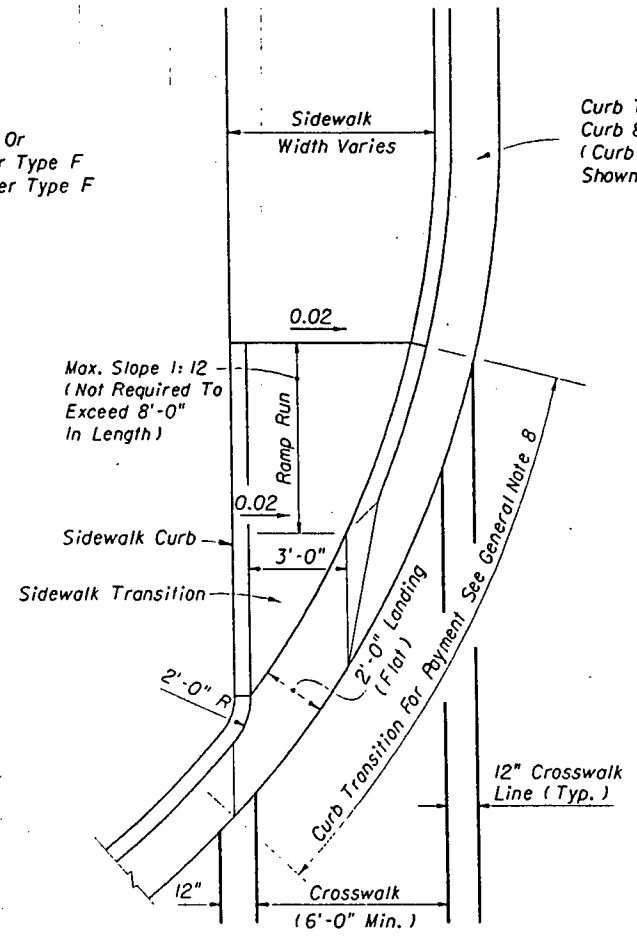
REVISION NO. 94 SHEET NO. 1 of 3 INDEX NO. 0304



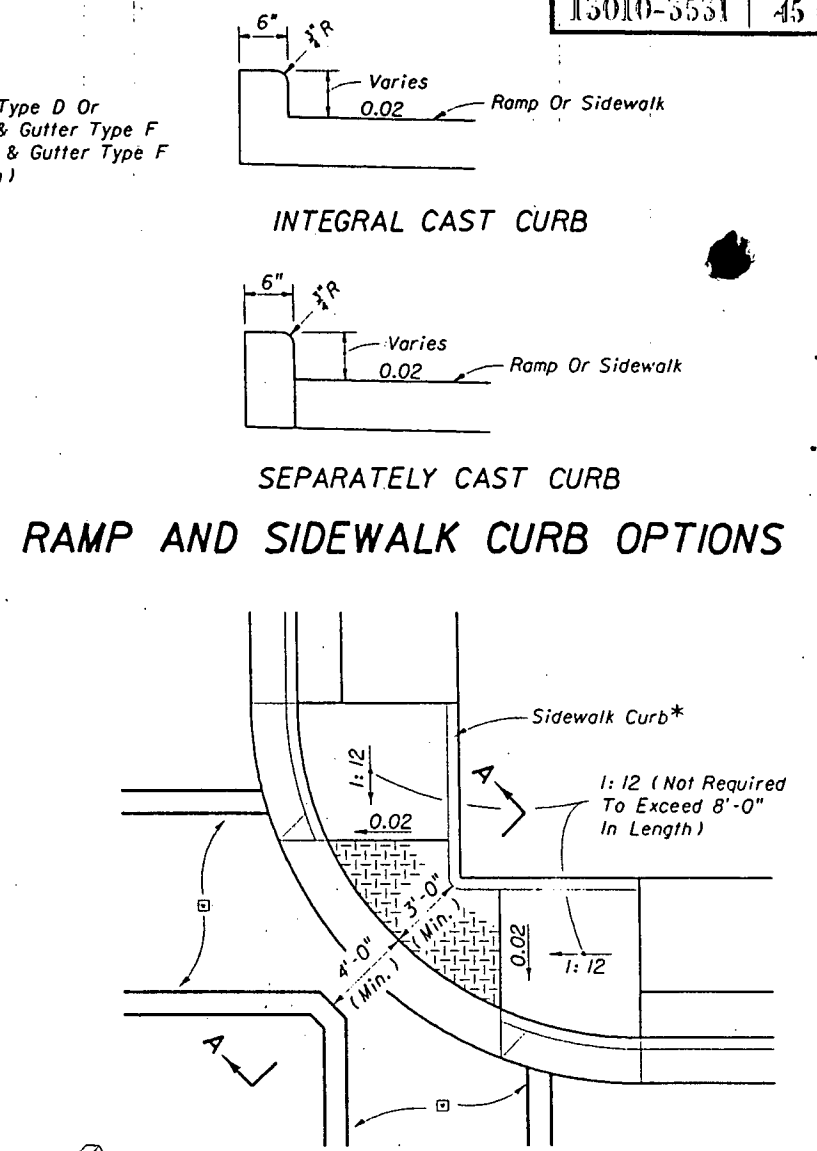
CR 8
PLAN VIEW



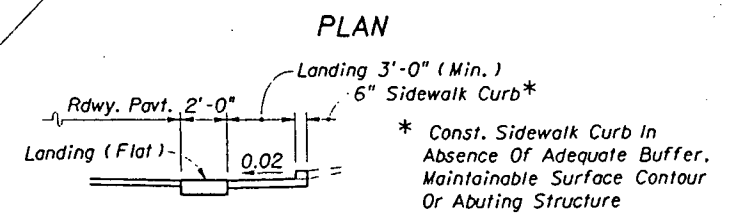
CR 9
PLAN VIEW



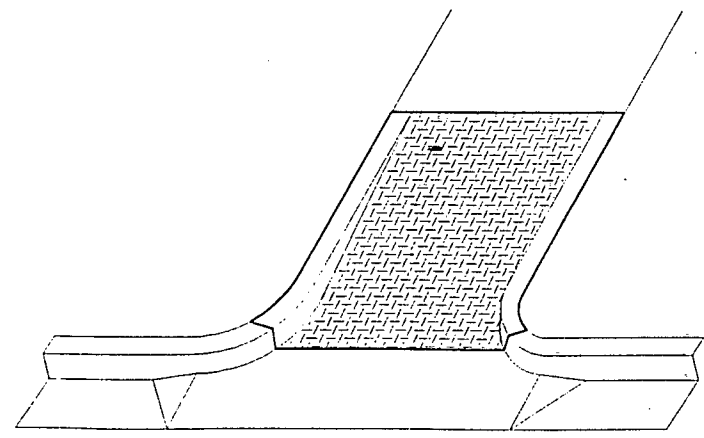
CR 10
PLAN VIEW



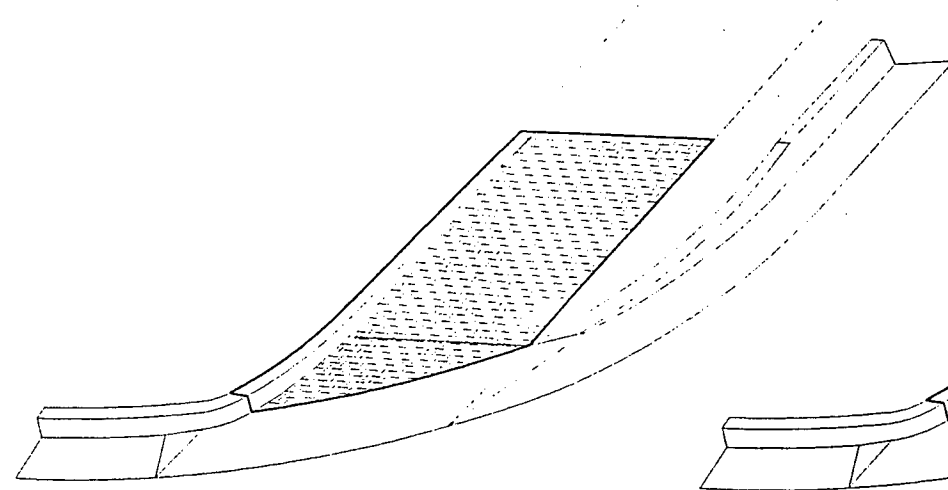
□ Crosswalk width and configuration vary; must conform to Traffic Design Standards.



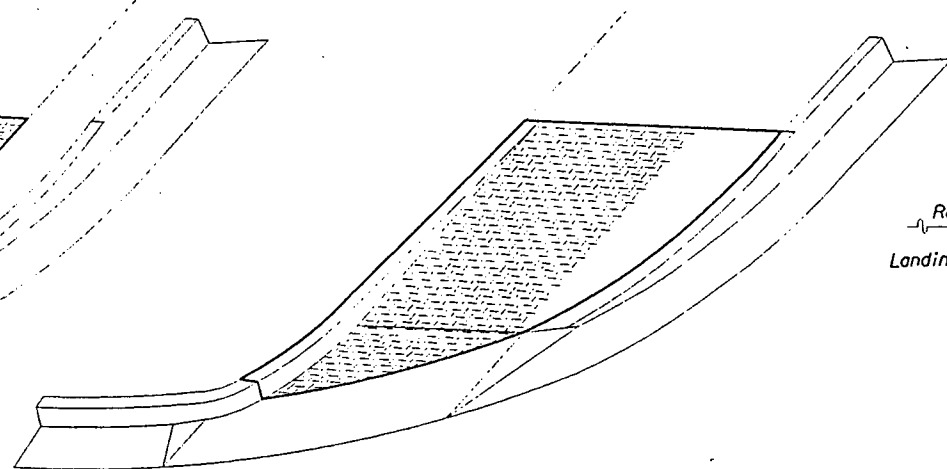
SECTION AA
CR 11
DIAGONAL RAMPS
FOR CONDITION OF INFEASIBILITY



PICTORIAL VIEW



PICTORIAL VIEW



PICTORIAL VIEW

RAMPS FOR LINEAR PEDESTRIAN TRAFFIC

| | | |
|--|---|-----------|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD DESIGN | | |
| PUBLIC SIDEWALK CURB RAMPS | | |
| INTERIM STANDARD | APPROVED BY <i>Jeddie Simmons</i> STATE ROADWAY DESIGN ENGINEER | |
| THIS SHEET REPLACES SHEET NO. 2 OF 3 OF INDEX NO. 304 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, BOOKLET DATED JANUARY 1994. | | |
| REVISION NO. | SHEET NO. | INDEX NO. |
| 94 | 2 of 3 | 0304 |

| COL. SIZE | 2 x 1/2 | 2 x 1/2 | 2 x 1/2 | 2 1/2 x 1/2 | 2 1/2 x 1/2 | 2 1/2 x 1/2 | 3 x 1/2 | 3 x 1/2 | 3 x 1/2 | * |
|----------------------------|----------------|----------|----------|-------------|-------------|-------------|---------|---------|---------|---|
| FOOTING | 2-0 | 2-0 | 2-0 | 2-3 | 2-3 | 2-3 | 2-6 | 2-6 | 2-6 | * |
| COL. SIZE | 2.5"/FT. | 2.5"/FT. | 3.0"/FT. | 4.0"/FT. | 4.0"/FT. | N/A | N/A | N/A | N/A | * |
| FOOTING | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | N/A | N/A | N/A | N/A | * |
| COL. SIZE | W+1.50 | W+1.75 | W+1.75 | W+2.00 | W+2.25 | W+2.25 | W+2.25 | W+2.50 | N/A | * |
| FOOTING | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | N/A | * |
| Sign Identification Number | HEIGHT (FT.) | | | | | | | | | |
| 1 | To 8 | --- | 8'-10 | 10'-13 | --- | --- | 13'-14 | | | |
| 2 | To 6 | 6'-7 | 7'-8 | 8'-12 | --- | 12'-13 | 13'-14 | | | |
| 3 | To 6 | 6'-7 | 7'-9 | 9'-11 | --- | 11'-12 | 12'-13 | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | To 6 | --- | 6'-8 | 8'-9 | | | |
| 7 | | | | | | | | | | |
| 8 | To 8 | 8'-9 | 9'-10 | 10'-13 | --- | 13'-14 | | | | |
| 9 | To 7 | 7'-8 | 8'-11 | 11'-12 | 12'-13 | --- | 13'-14 | | | |
| 10 | | | To 8 | 8'-9 | --- | 9'-10 | 10'-12 | | | |
| 11 | | | | To 6 | --- | 6'-7 | 7'-9 | | | |
| 12 | | | | | | | | | | |
| 13 | | | | To 8 | --- | 8'-9 | 9'-11 | 11'-12 | | |
| 14 | | | To 6 | 6'-7 | --- | 7'-8 | 8'-10 | 10'-11 | | |
| 15 | | | To 6 | 6'-7 | --- | 7'-8 | 8'-10 | | | |
| 16 | | | | To 6 | --- | 6'-7 | 7'-9 | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | To 6 | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | To 6 | | | |
| 24 | | | | | | | | To 6 | | |
| 25 | | | To 6 | 6'-7 | --- | 7'-9 | 9'-11 | | | |
| 26 | | | To 6 | --- | --- | 6'-8 | 8'-9 | | | |
| 27 | | | | To 6 | --- | 6'-7 | 7'-9 | | | |
| 28 | | | | To 6 | --- | 6'-7 | 7'-9 | | | |
| 29 | | | | | | To 7 | 7'-8 | | | |
| 30 | | | | | | To 6 | 6'-8 | | | |
| 31 | | | | | | | To 6 | | | |
| 32 | | | | | | | To 6 | | | |
| 33 | | | | | | To 6 | 6'-7 | | | |
| 34 | | | | | | | To 6 | | | |
| 35 | | | | | | | To 7 | | | |
| 36 | | | | | | | To 6 | | | |
| 37 | | | | | | | | | | |
| 38 | | | | | | | | | | |
| 39 | | | | | | | | | | |
| 40 | | | | | | | | | | |
| 41 | | | | | | | | | | |
| 42 | | | | | | | | | | |
| 43 | | | | | | | | | | |
| 44 | To 9 | --- | 9'-10 | 10'-13 | --- | 13'-14 | | | | |
| 45 | To 6 | 6'-7 | 7'-9 | 9'-11 | 11'-12 | 12'-13 | 13'-14 | | | |
| 46 | To 6 | 6'-7 | 7'-9 | 9'-11 | 11'-12 | 12'-13 | 13'-14 | | | |

| COL. SIZE | 2 x 1/2 | 2 x 1/2 | 2 x 1/2 | 2 1/2 x 1/2 | 2 1/2 x 1/2 | 2 1/2 x 1/2 | 3 x 1/2 | 3 x 1/2 | 3 x 1/2 | * |
|----------------------------|----------------|----------|----------|-------------|-------------|-------------|---------|---------|---------|---|
| FOOTING | 2-0 | 2-0 | 2-0 | 2-3 | 2-3 | 2-3 | 2-6 | 2-6 | 2-6 | * |
| COL. SIZE | 2.5"/FT. | 2.5"/FT. | 3.0"/FT. | 4.0"/FT. | 4.0"/FT. | N/A | N/A | N/A | N/A | * |
| FOOTING | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | N/A | N/A | N/A | N/A | * |
| COL. SIZE | W+1.50 | W+1.75 | W+1.75 | W+2.00 | W+2.25 | W+2.25 | W+2.25 | W+2.50 | N/A | * |
| FOOTING | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | 3-0 | N/A | * |
| Sign Identification Number | HEIGHT (FT.) | | | | | | | | | |
| 47 | To 6 | 6'-7 | 7'-9 | 9'-11 | 11'-12 | 12'-13 | 13'-14 | | | |
| 48 | To 7 | 7'-8 | 8'-11 | 11'-12 | --- | 12'-13 | 13'-14 | | | |
| 49 | To 6 | 6'-7 | 7'-10 | 10'-11 | --- | 11'-12 | 12'-14 | | | |
| 50 | | | | | | | | | | |
| 51 | To 6 | 6'-7 | 7'-9 | 9'-11 | --- | 11'-12 | 12'-14 | | | |
| 52 | | To 6 | 6'-9 | 9'-10 | --- | 10'-12 | 12'-13 | | | |
| 53 | | To 6 | 6'-8 | 8'-10 | --- | 10'-11 | 11'-13 | | | |
| 54 | | To 8 | 8'-9 | --- | 9'-11 | 11'-12 | | | | |
| 55 | | To 8 | 8'-9 | --- | 9'-10 | 10'-12 | | | | |
| 56 | | | | | | | | | | |
| 57 | | | To 7 | --- | --- | 7'-9 | 9'-10 | | | |
| 58 | | | To 6 | 6'-7 | --- | 7'-9 | 9'-11 | | | |
| 59 | | | To 6 | 6'-7 | --- | 7'-9 | 9'-10 | | | |
| 60 | | | To 6 | 6'-7 | --- | 7'-8 | 8'-10 | | | |
| 61 | | | To 6 | --- | --- | 6'-8 | | | | |
| 62 | | | | To 6 | --- | 6'-7 | 7'-8 | | | |
| 63 | | | | To 6 | --- | 6'-7 | 7'-9 | | | |
| 64 | | | | | | | | | | |
| 65 | | | | | | To 6 | 6'-8 | | | |
| 66 | | | | | | | | | | |
| 67 | | | | | | To 6 | 6'-7 | | | |
| 68 | | | | | | | | To 7 | | |
| 69 | | | | | | | | To 7 | | |
| 70 | | | | | | | | To 6 | | |
| 71 | | | | | | | | | | |
| 72 | | | | | | | | | | |
| 73 | | | | | | | | To 6 | | |
| 74 | | | | | | | | | | |
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| 91 | | | | | | | | | | |

ALUMINUM ROUND POST

STEEL FLANGED CHANNEL POST

STEEL SQUARE TUBE POST

STATE PROJ. NO. 13010-5551

SHEET NO. 47

* Aluminum Round Post dimensions are given in inches. The size is shown as outside diameter times wall thickness.

Steel Flanged Channel Post sizes are given in weight per linear foot. Section definitions and properties are shown on Sheet 2 of 2. (See OPL for approved posts).

Steel Square Tube Post dimensions for "W" are given in inches. The "W" dimension is defined on Section F-F. (See OPL for approved posts).

Footings dimensions shown are given in feet and inches. The dimension shown is the minimum embedment of the driven post.

NOTES

- This Standard Index 11865 provides designs for driven single post sign installations for implementation at all locations within the State of Florida. The designs adhere to the following criteria:
 - Mounting Height - 14 Feet Maximum
 - Sign(s) Area - 25 Square Feet Maximum
 - Sign(s) Width: Single - 36 inches Maximum
Dual - 48 inches Maximum (See Detail "A")
 - Driven Post only
- Designs exceeding above criteria or requiring concrete footings are included on Index 11861 thru 11864.
- Specifications for Aluminum materials, Sign Panel Details, etc. are shown on standard Index 11860. Additional information and details are shown on Index 11861 thru 11864. Therefore, work this Standard Index 11865 with Standard Indices 11860 to 11864.
- Sign Bracket requirements are shown on Index 11860 (USE 80 M.P.H. WIND ZONE). If Flanged Channels or Square Tubes are used, substitute two 3/16" bolts for each Type J Bracket. See Detail "B".
- All posts shall be installed plumb.
- Steel for Flanged Channel Posts shall conform with ASTM A499 Grade 60, or ASTM A576 Grade 1080.
- Steel for fabrication of square Tubes shall conform with ASTM A446 or ASTM A570. HOWEVER, STEEL FROM THE FABRICATED SQUARE TUBES MUST MEET A CERTIFIED MINIMUM YIELD STRENGTH OF 55,000 PSI.
- Steel Flanged Channel Posts weighing 4.0 lbs. per foot are non-frangible and shall be installed with approved breakaway (frangible) bases. See Detail "C". The base and the sign posts shall be same size and type and the splice shall be six inches long and fastened with two bolts, four inches apart. The bolts shall be wrench-tightened sufficiently to clamp splice assembly tightly together. Bolts shall conform with ASTM A 354 Grade DH or SAE J995 Grade 8. Washers and spacers shall conform with ASTM A307 or A36.
- Steel Flanged Channel Posts weighing 2.5 and 3.0 lbs. per foot, all Aluminum Round Posts and all Steel Square Tubes included in this standard are frangible and do not require breakaway (frangible) bases. However, the contractor may mount frangible posts on approved breakaway bases.
- Bolts, Nuts and washers not included in note 8 above, shall conform with ASTM A307.
- Steel Posts shall be selected from the Department's book of Qualified Product List (OPL).
- All steel posts, and hardware shall be galvanized in accordance with ASTM A123 or A153 or AASHTO M181 Grade 2.
- Shop Drawings: If the contractor proposes to utilize sign panel connections and/or breakaway devices not shown in this standard or in the above referenced standards, the Contractor shall submit shop drawings for approval.

DETAIL "B" (See Note No. 4)
SIGN MOUNTING USING CHANNELS OR SQUARE TUBES

DETAIL "A"

COLUMN SIZE, COLUMN HEIGHT & COLUMN FOOTINGS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN

SINGLE COLUMN GROUND SIGNS

INTERIM STANDARD

APPROVED BY: *J. Garcia*

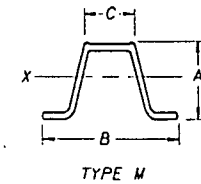
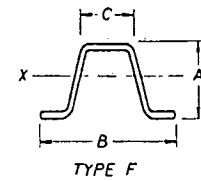
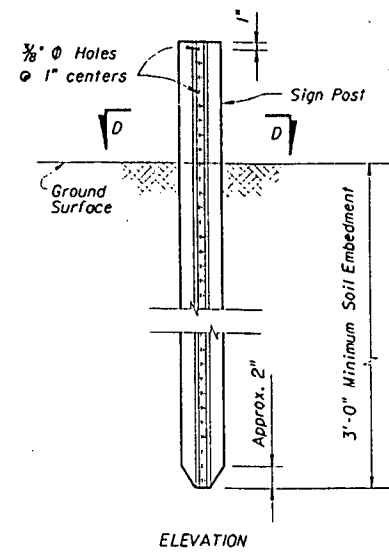
HEIGHT = 14' MAX.
(ALL WIND ZONES)

THIS SHEET REPLACES SHEET NO. 1 OF 1 OF INDEX NO. 11865 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, BOOKLET DATED JANUARY 1994.

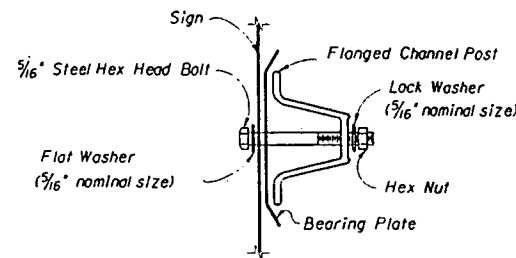
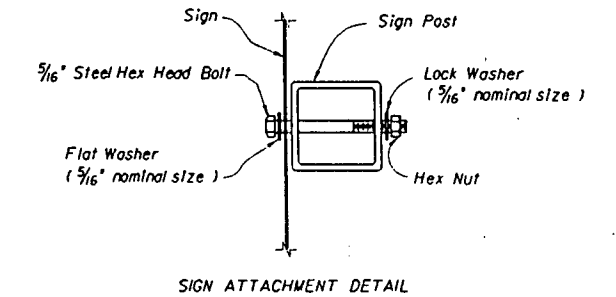
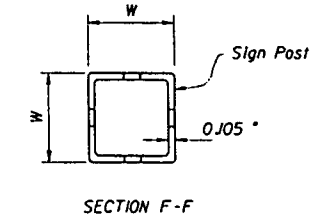
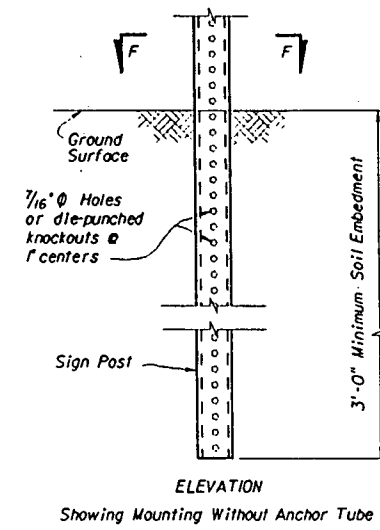
REVISION NO. 94 SHEET NO. 1 of 2 INDEX NO. 011865

| APPROVED STEEL FLANGED CHANNEL POSTS | | | | | | |
|--------------------------------------|------|---------|---------|---------|------------------------|--|
| Lb./Ft.* | Type | A (In.) | B (In.) | C (In.) | Sx (in. ³) | |
| 2.50 | F | 1.562 | 3.125 | 1.250 | 0.310 | |
| 2.50 | M | 1.500 | 3.063 | 1.281 | 0.313 | |
| 3.00 | F | 1.750 | 3.500 | 1.625 | 0.430 | |
| 3.00 | M | 1.875 | 3.500 | 1.313 | 0.447 | |
| 4.00 | F | 1.750 | 3.500 | 1.671 | 0.560 | |
| 4.00 | M | 1.938 | 3.500 | 1.313 | 0.625 | |

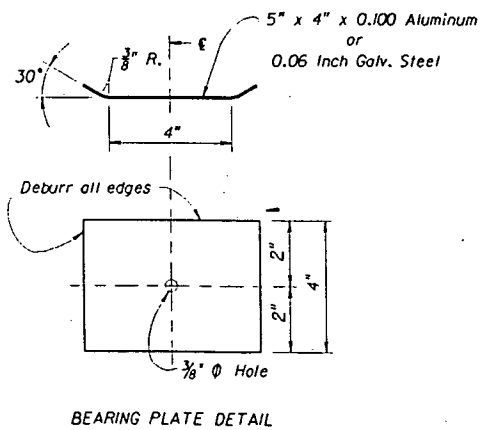
* = 3 1/2 x



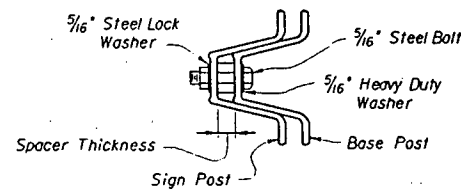
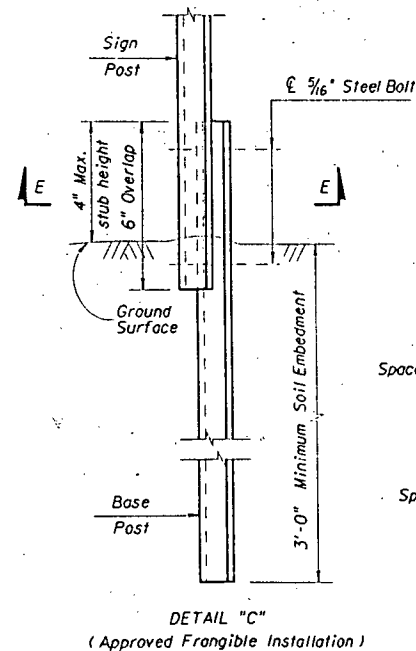
SECTION D-D



SIGN ATTACHMENT DETAIL

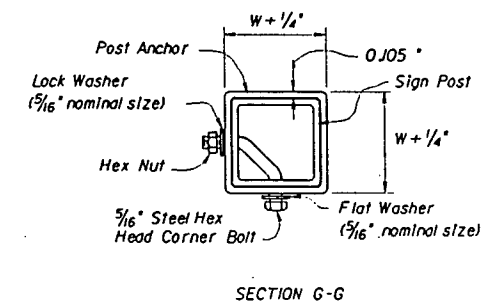
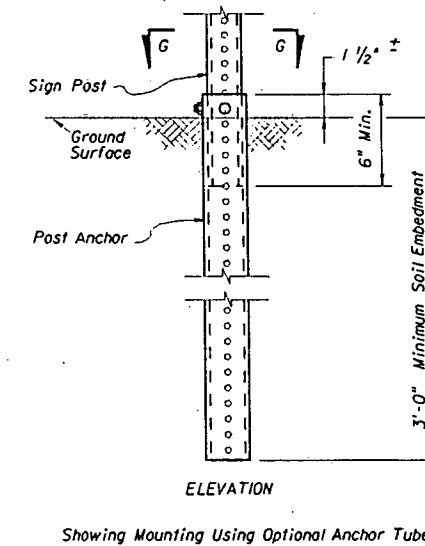


BEARING PLATE DETAIL



Spacer Thickness shall be as follows:
2.5 #/ft. Type M posts shall use 3/16 inch spacer. Other posts shall use 1/8 inch spacer (or two 3/16 inch).

STEEL FLANGED CHANNEL POST DETAILS



STEEL SQUARE TUBE POST DETAILS

COLUMN SIZE, COLUMN HEIGHT & COLUMN FOOTINGS

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN

SINGLE COLUMN GROUND SIGNS

INTERIM STANDARD

APPROVED BY *J. Garcia*

HEIGHT = 14' MAX.
(ALL WIND ZONES)

THIS SHEET REPLACES SHEET NO. 1 OF 1 OF INDEX NO. 11865 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS. BOOKLET DATED JANUARY 1994.

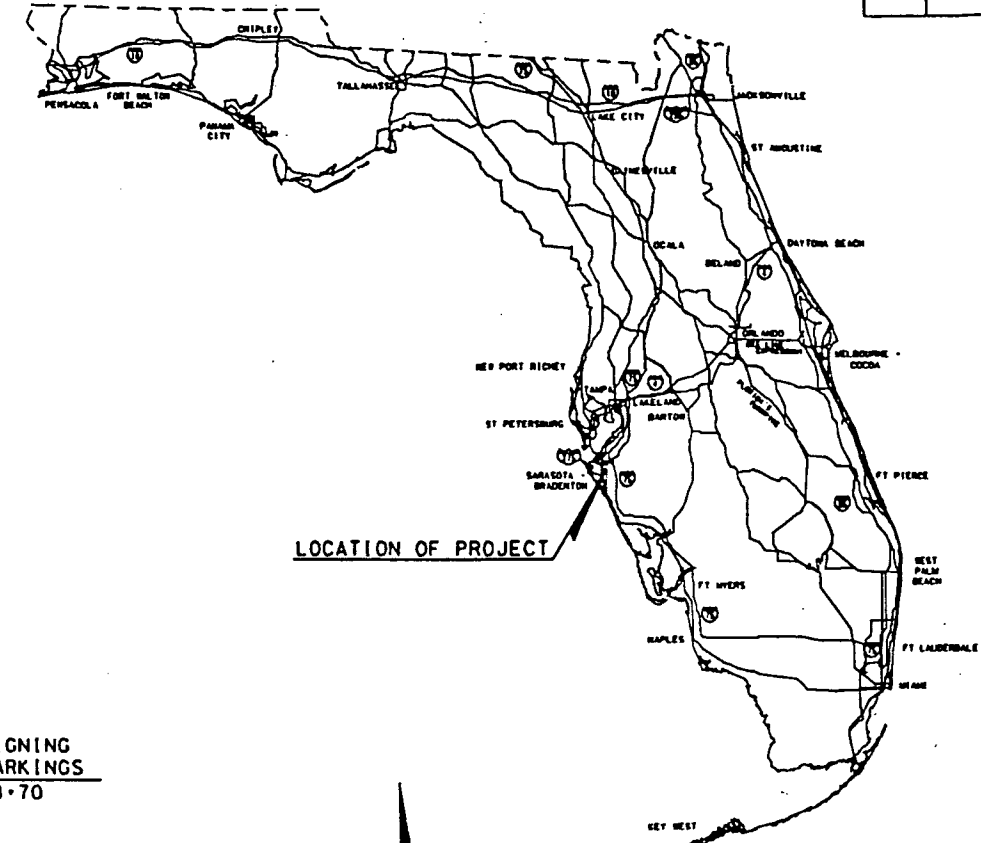
REVISION NO. 94 SHEET NO. 2 of 2 INDEX NO. 011865

FD-302 (REV. 10-6-95)

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

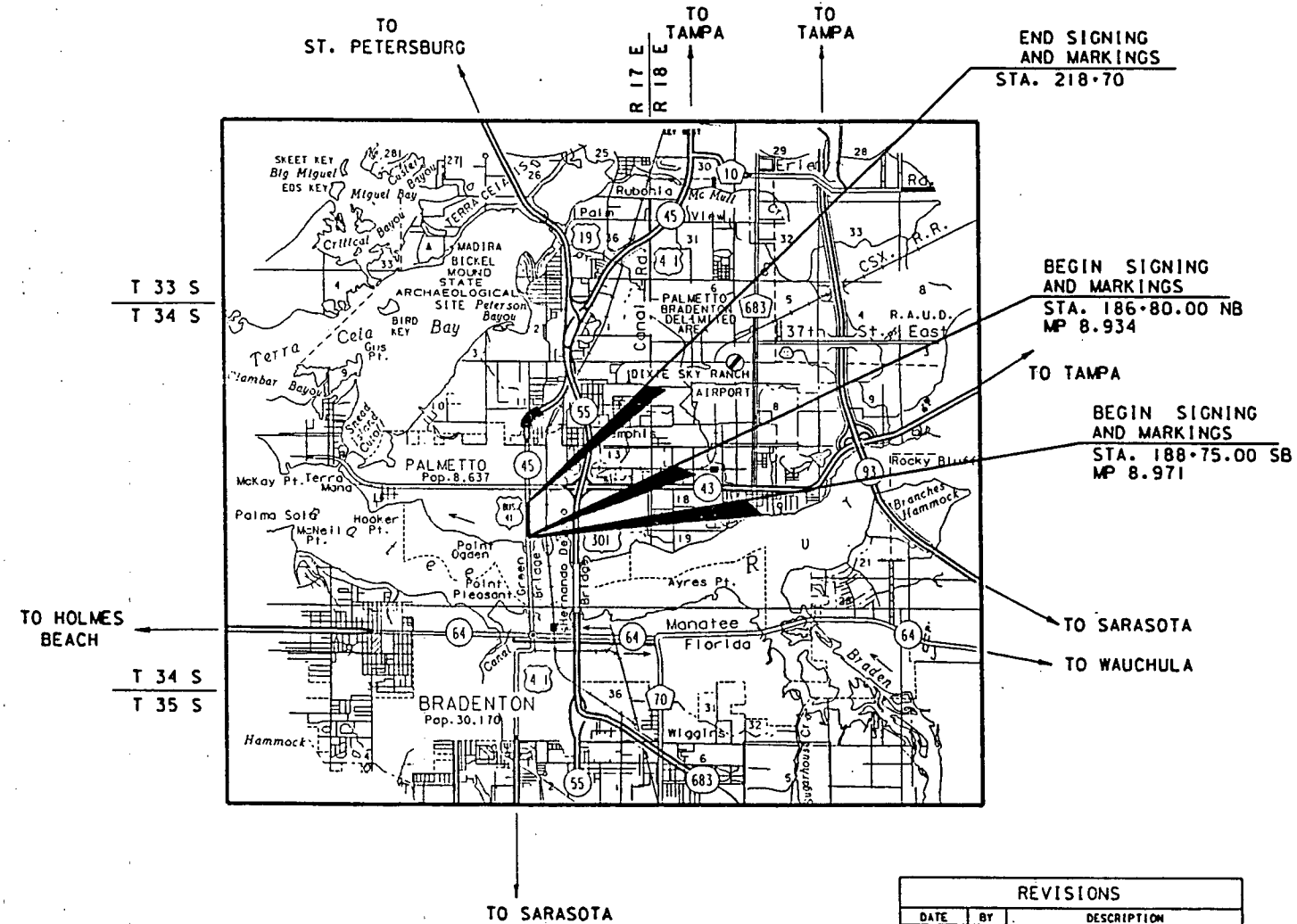
PLANS OF PROPOSED STATE HIGHWAY

STATE PROJECT NO. 13010-3531 MANATEE COUNTY STATE ROAD NO. 45 (U.S. BUS. 41) SIGNING AND MARKING PLANS



INDEX OF SIGNING AND MARKING PLANS

Table with 2 columns: SHEET NO. and SHEET DESCRIPTION. Rows include S-1 (KEY SHEET), S-2 (TABULATION OF QUANTITIES), and S-3 - S-5 (PLAN SHEETS).



SIGNING AND MARKING PLANS ENGINEER OF RECORD SHARON C. MC CALL, P.E. FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT 1 OFFICE P.O. BOX 1249 BARTON, FL 33831 OR 801 N. BROADWAY AVE. BARTON, FL 33830

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS, STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1991, SUPPLEMENTS AND SPECIAL PROVISIONS THERETO IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

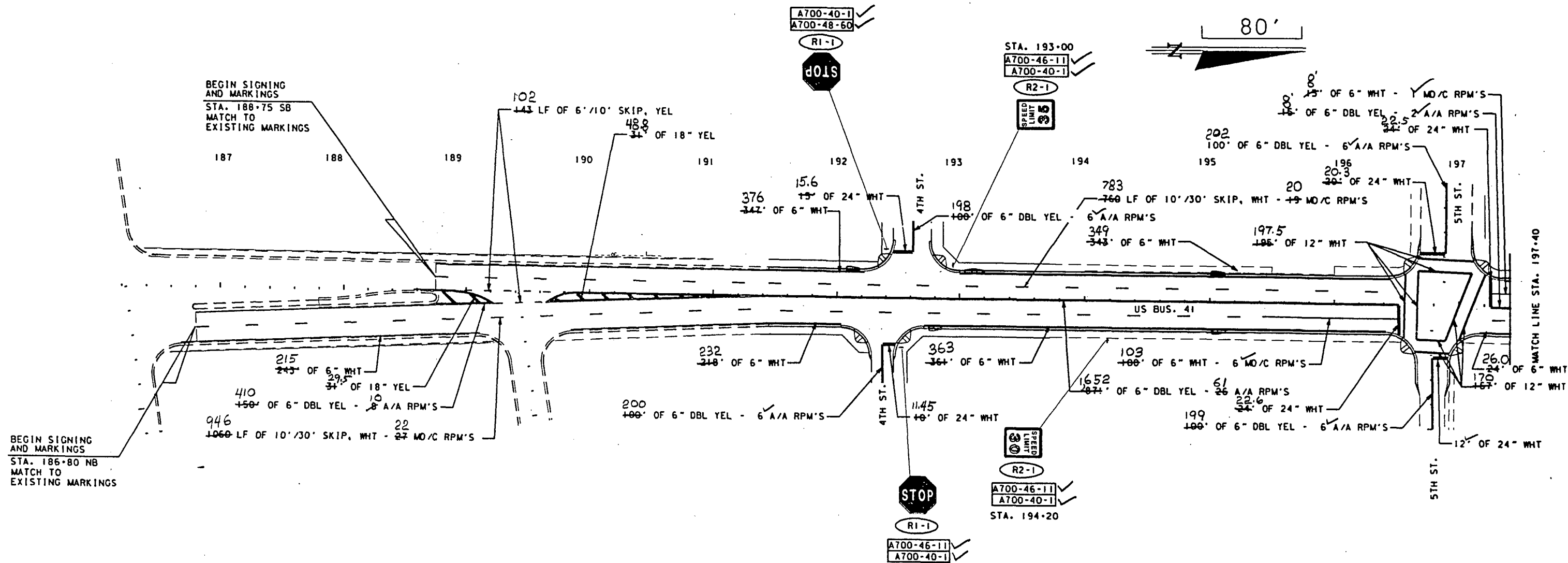
REVISIONS table with columns: DATE, BY, DESCRIPTION.

FDOT PROJECT MANAGER : M. A. KAUTZ

SIGNING AND MARKING PLANS APPROVED BY Sharon C. McCall DATE Nov. 14, 1996 P.E. NO. 49305

Vertical text on the left margin: /usr:/proj/13010/3531/keyspp01.dgn

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY, 1994).



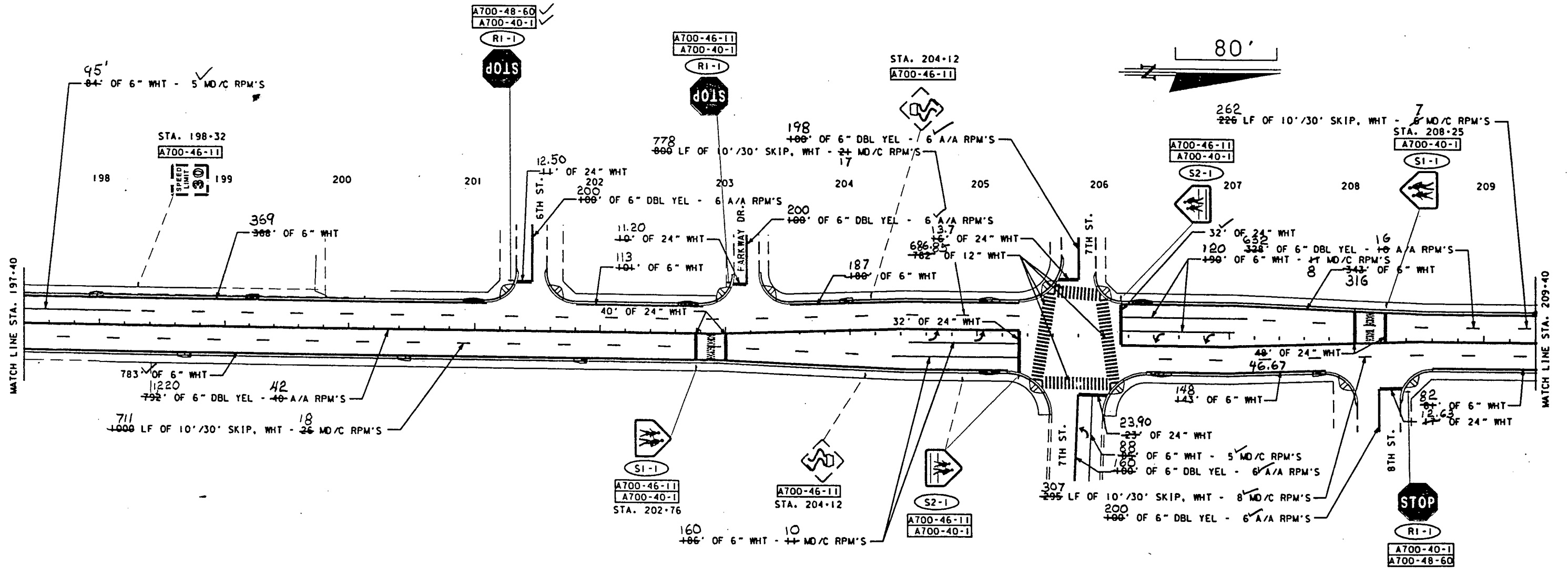
/usr3/proj/13010/3531/planspl.dgn Thu Nov 14 10:35:38 1996

DESIGNED BY: RLB DATE: 11' 94'
 DRAWN BY: RLB DATE: 11' 94'
 CHECKED BY: MAK DATE: 12' 94'
 FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Sharon C. McCall*
 DATE: 11-14-96

| REVISIONS | | | | | | | | | | | |
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FLORIDA DEPARTMENT OF TRANSPORTATION

PLAN SHEET



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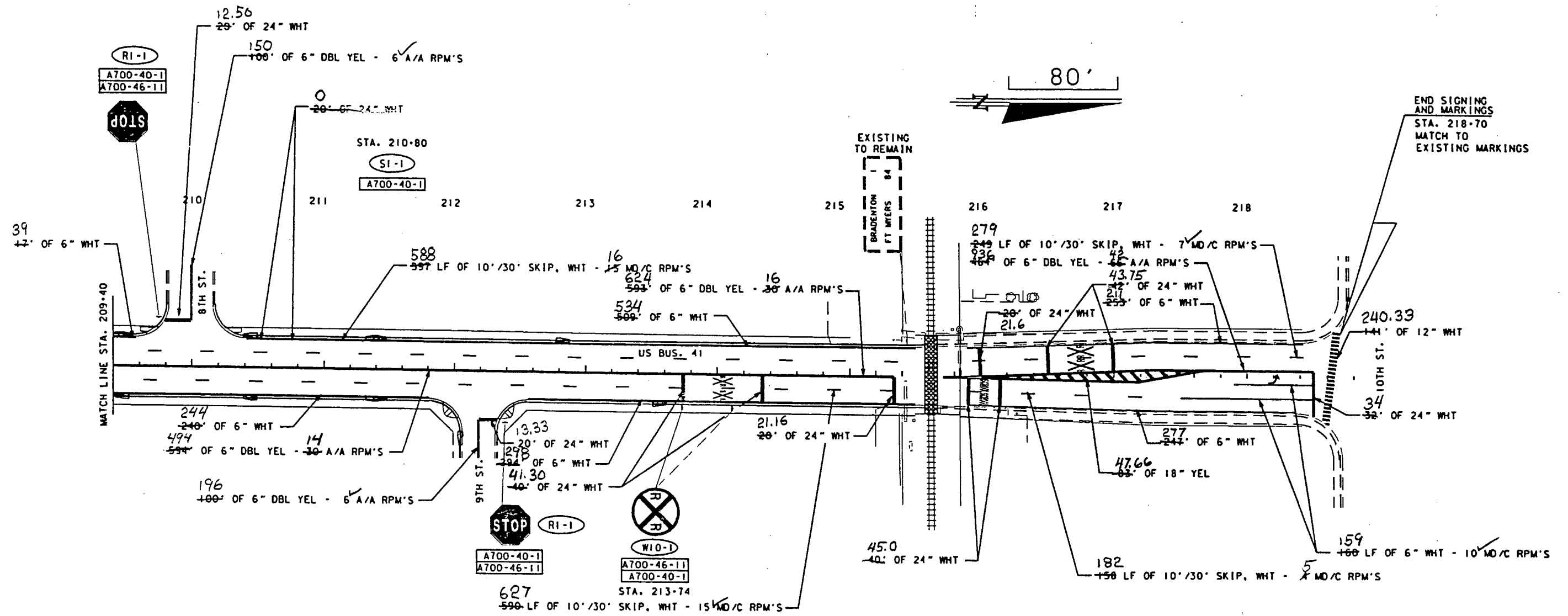
DESIGNED BY: RLB DATE: 11-94
 DRAWN BY: RLB DATE: 11-94
 CHECKED BY: MAK DATE: 12-94

FLORIDA DEPARTMENT OF TRANSPORTATION
 APPROVED BY: *Sharon C. McCall*
 DATE: 11-14-96

| REVISIONS | | | | | | | | | | | |
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FLORIDA DEPARTMENT OF TRANSPORTATION

PLAN SHEET



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| DESIGNED BY: RLB | DATE: 11*94 | FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED BY: <i>Sharon C. McCall</i> DATE: 11-14-96 |
| DRAWN BY: RLB | DATE: 11*94 | |
| CHECKED BY: MAK | DATE: 12*94 | |

| REVISIONS | | | | | | | | | | | |
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| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
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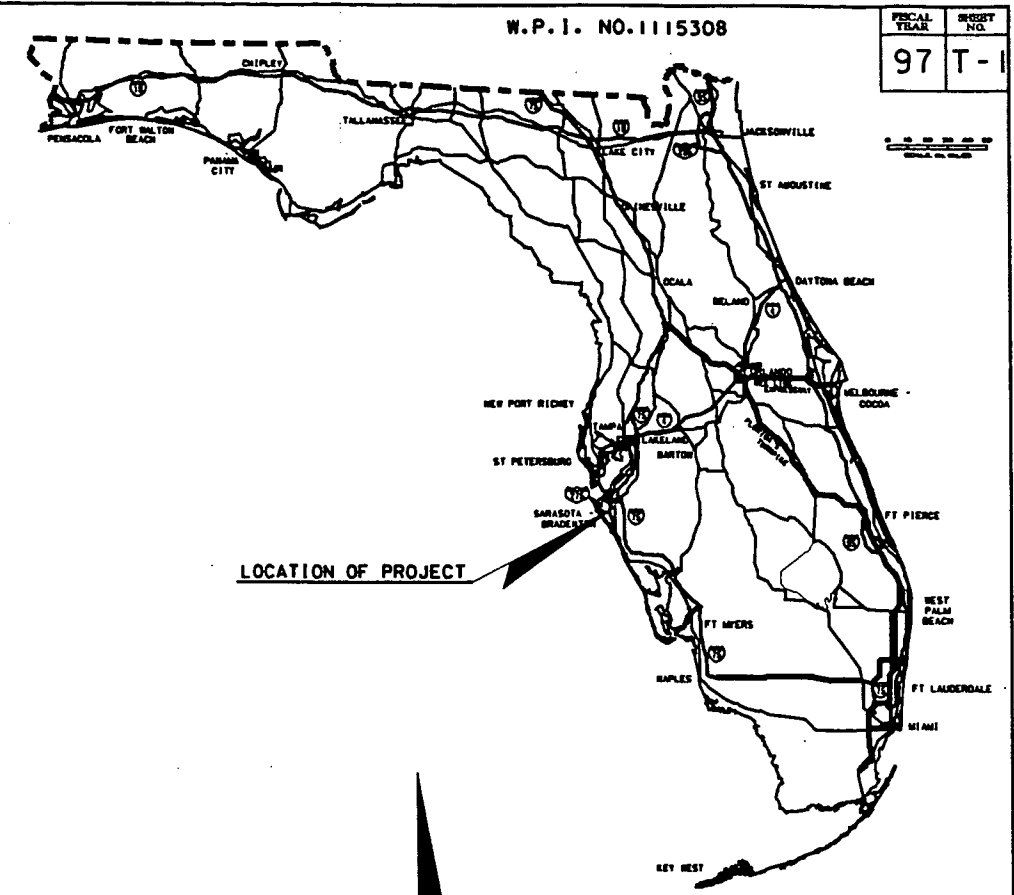
FLORIDA DEPARTMENT OF
TRANSPORTATION

PLAN SHEET

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY

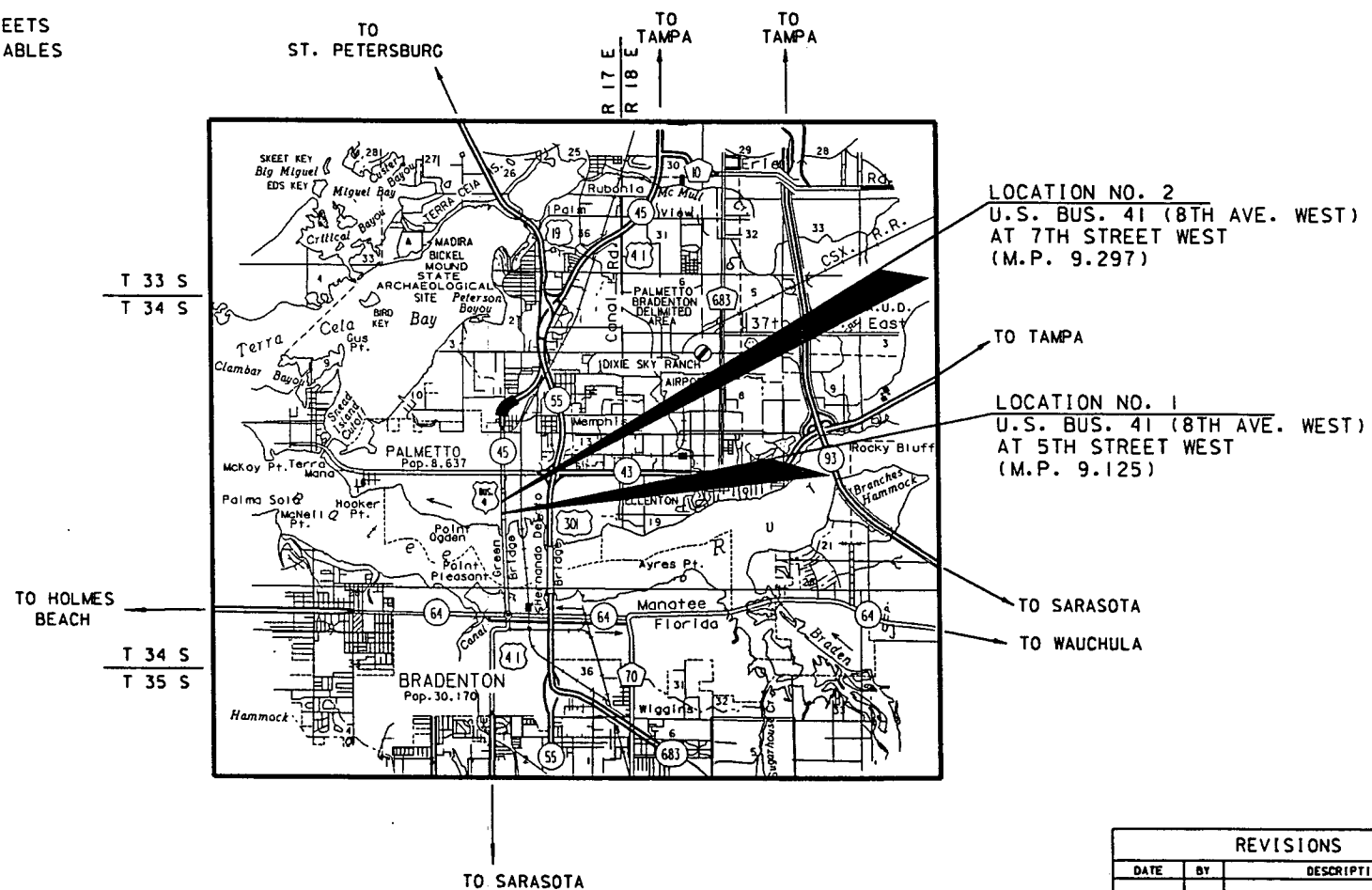
STATE PROJECT NO. 13010-3531
MANATEE COUNTY
STATE ROAD NO. 45, (U.S. BUS. 41)



INDEX OF SIGNALIZATION PLANS

| SHEET NO. | SHEET DESCRIPTION |
|-------------|-------------------------------------|
| T-1 | KEY SHEET |
| T-2 - T-3 | TABULATION OF QUANTITIES |
| T-4 | GENERAL NOTE SHEET |
| T-5 - T-6 | PLAN SHEETS |
| T-7 - T-8 | MAST ARM DETAIL & SCHEDULE |
| T-9 | INTERCONNECT CABLE PLAN |
| T-10 - T-11 | REPORT OF CORE BORINGS |
| T-12 - T-15 | CANTILEVER SIGNAL STRUCTURE SHEETS |
| T-16 | TABLE OF SIGNAL STRUCTURE VARIABLES |

SIGNALIZATION PLANS



THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS (BOOKLET DATED JANUARY, 1994).

REVISIONS:

| REVISIONS | | |
|-----------|----|-------------|
| DATE | BY | DESCRIPTION |
| | | |
| | | |

SIGNALIZATION PLANS ENGINEER OF RECORD:
SHARON C. MCCALL, P.E.
FLORIDA DEPARTMENT OF TRANSPORTATION
DISTRICT ONE OFFICE
POST OFFICE BOX 1249
BARTOW, FLORIDA 33831-1249
OR
801 NORTH BROADWAY AVE.
BARTOW, FLORIDA 33830

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1991, SUPPLEMENTS AND SPECIAL PROVISIONS THERE TO IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

SIGNALIZATION PLANS APPROVED BY: *Sharon C. McCall*
DATE: *Nov. 19, 1996*
P.E. NO.: 49305

13010-3531

FDOT PROJECT MANAGER : MELODY A. MANSFIELD

TABULATION OF QUANTITIES

| BID ITEM NO. | DESCRIPTION | UNIT | SHEET NUMBERS | | | | | | | | | | | | TOTAL THIS SHEET | | GRAND TOTAL | | REF. SHEET | | | |
|--------------|--|------|--|--|--|--|----------------------------|------|------|------|------|------|------|------|------------------|------|-------------|------|------------|------|------|--|
| | | | T-5 | | T-6 | | T-9 | | LOC. | | LOC. | | LOC. | | | | | | | LOC. | | |
| | | | LOC. 1 U.S. BUS. 41 @ 5TH ST. W. | LOC. 2 U.S. BUS. 41 @ 7TH ST. W. | LOC. 1 U.S. BUS. 41 @ 5TH ST. W. | LOC. 2 U.S. BUS. 41 @ 7TH ST. W. | INTERCONNECT CABLE PLAN | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | | | |
| A620-1-1 | GROUNDING ELECTRODE | LF | 330 | 330 | 330 | 330 | 70 | 80 | | | | | | | | | | 730 | 740 | 730 | 740 | |
| A630-1-11 | CONDUIT, ABOVEGROUND | LF | 30 | 20 | 60 | 34 | ---- | | | | | | | | | | | 90 | 54 | 90 | 54 | |
| A630-1-12 | CONDUIT, UNDERGROUND | LF | 534 | 572 | 963 | 945 | 1721 | 1695 | | | | | | | | | | 3218 | 3212 | 3218 | 3212 | |
| A630-1-13 | CONDUIT, UNDER PAVEMENT | LF | 9 | 7 | 18 | 19 | ---- | | | | | | | | | | | 27 | 26 | 27 | 26 | |
| A632-6-1 | SIGNAL CABLE (FEET) (MOT/TCP) | | | | | | | | | | | | | | | | | | | | | |
| A632-7-1 | SIGNAL CABLE | PI | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | | | |
| A632-8-212 | INTERCONNECT CABLE, UNDERGROUND (12 PAIR) | LF | ---- | ---- | 2020 | 2100 | | | | | | | | | | | | | | | | |
| | INTERCONNECT CABLE, UNDERGROUND (6 PAIR) | LF | ---- | 73 | ---- | 210 | | | | | | | | | | | | 2093 | 2310 | 2093 | 2310 | |
| A635-1-11 | PULL BOX | EA | 16 | 15 | 16 | 15 | 7 | 8 | | | | | | | | | | 39 | 40 | 39 | 40 | |
| A635-1-12 | JUNCTION BOX, AERIAL | EA | ---- | 1 | 1 | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A639-1-22 | ELECTRICAL POWER SERVICE, UNDERGROUND | AS | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A639-2-1 | ELECTRICAL SERVICE WIRE, MINIMUM 3 WIRES | LF | 937 | 939 | 906 | 846 | ---- | | | | | | | | | | | 1843 | 1785 | 1843 | 1785 | |
| A641-41-112 | CONCRETE STRAIN SERVICE POLE - TYPE II DIRECT BURIAL | EA | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A647-31-30 | MAST ARM COMBINATIONS - SINGLE ARM (INSTALL ONLY) | EA | ---- | 1 | 1 | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A647-31-38 | MAST ARM COMBINATIONS - SINGLE ARM (INSTALL ONLY) | EA | ---- | 1 | 1 | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A647-33-76 | MAST ARM COMBINATIONS - DOUBLE ARM (INSTALL ONLY) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A647-33-80 | MAST ARM COMBINATIONS - DOUBLE ARM (INSTALL ONLY) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A647-33-100 | MAST ARM COMBINATIONS - DOUBLE ARM (INSTALL ONLY) | EA | ---- | 1 | 1 | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A650-1-131 | TRAFFIC SIGNAL, 12" STANDARD (3-SECT., 1-WAY) | AS | 7 | 7 | 8 | 8 | ---- | | | | | | | | | | | | | | | |
| A650-9-151 | TRAFFIC SIGNAL, 12" STANDARD (5-SECT., 1-WAY) | AS | 1 | 1 | ---- | ---- | | | | | | | | | | | | 15 | 15 | 15 | 15 | |
| A653-112 | PEDESTRIAN SIGNAL, 12" INCANDESCENT (2-WAY) | AS | 4 | 4 | 4 | 4 | ---- | | | | | | | | | | | 8 | 8 | 8 | 8 | |
| A659-101 | SIGNAL HEAD AUXILIARIES (BACK PLATES, 3-SECTION) | EA | 7 | 7 | 8 | 8 | ---- | | | | | | | | | | | | | | | |
| A659-107 | SIGNAL HEAD AUXILIARIES (ALUMINUM PEDESTAL) | EA | 2 | 2 | 1 | 1 | ---- | | | | | | | | | | | 3 | 3 | 3 | 3 | |
| A659-118 | SIGNAL HEAD AUXILIARIES (BACK PLATES, 5-SECTION CLUSTER) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A660-1-103 | INDUCTIVE LOOP DETECTOR (TYPE 3) | EA | 8 | 8 | 7 | 7 | ---- | | | | | | | | | | | 15 | 15 | 15 | 15 | |
| A660-2-102 | LOOP ASSEMBLY (TYPE B) | AS | 5 | 5 | 4 | 4 | 1 | 1 | | | | | | | | | | 10 | 10 | 10 | 10 | |
| A660-2-106 | LOOP ASSEMBLY (TYPE F) | AS | 4 | 4 | 3 | 3 | ---- | | | | | | | | | | | 7 | 7 | 7 | 7 | |

FIELD BOOK #915
PAGE 9
SUMMARY

SEE GENERAL NOTE SHEET, FOR ALL NOTES PERTAINING TO ITEM NUMBERS.

Wed Oct 9 06:40:17 1996

DESIGNED BY: MAM DATE: 10-4
DRAWN BY: MAM DATE: 10-4
CHECKED BY: MLM DATE: 1-4
APPROVED BY: *Sharon C. McCall* DATE: 11-14-97

FLORIDA DEPARTMENT OF TRANSPORTATION

TABULATION OF QUANTITIES

CH. 1111
C. 15/102
3-31-00

TABULATION OF QUANTITIES

| BID ITEM NO. | DESCRIPTION | UNIT | SHEET NUMBERS | | | | | | | | | | | | TOTAL THIS SHEET | | GRAND TOTAL | | REF. SHEET | | | | | |
|--------------|---|------|------------------------------|------------------------------|------------|------------|--------------|------|------|------|------|------|------|------|------------------|------|-------------|--|------------|-------------------|------|------|------|--|
| | | | T-5 | | T-6 | | T-9 | | LOC. | | LOC. | | LOC. | | | | | | | FIELD BOOK #13915 | | | | |
| | | | LOC. 1 | LOC. 2 | LOC. 1 | LOC. 2 | INTERCONNECT | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | LOC. | | | | | | | |
| | | | U.S. BUS. 41 # 5TH ST. W. | U.S. BUS. 41 # 7TH ST. W. | CABLE PLAN | MOT TCP | | | | | | | | | | | | | | | | | | |
| A665-11 | PEDESTRIAN DETECTOR, POLE OR CABINET MOUNT | EA | 4 | 4 | 6 | 6 | ---- | | | | | | | | | | | | | 10 | 10 | 10 | 10 | |
| A665-13 | PEDESTRIAN DETECTOR, DETECTOR WITH SIGN ONLY | EA | 4 | 4 | 2 | 2 | ---- | | | | | | | | | | | | | 6 | 6 | 6 | 6 | |
| A670-113-054 | CONTROLLER, SOLID STATE (ACTUATED) | AS | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A680-111 | SYSTEM CONTROL EQUIPMENT (ROADSIDE MASTER) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A680-115 | SYSTEM CONTROL EQUIPMENT (AUTODIAL/ANSWER EXT COMM MODEM) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A685-127 | SYSTEM AUXILIARIES (TELEPHONE CONNECTION BOX) | EA | 1 | 1 | ---- | ---- | | | | | | | | | | | | | | 1 | 1 | 1 | 1 | |
| A690-10 | REMOVE TRAFFIC SIGNAL HEAD ASSEMBLY | EA | 5 | 5 | 6 | 6 | ---- | | | | | | | | | | | | | 11 | 23 | 11 | 23 | |
| A690-20 | REMOVE PEDESTRIAN SIGNAL ASSEMBLY | EA | ---- | ---- | 7 | 7 | ---- | | | | | | | | | | | | | 7 | 7 | 7 | 7 | |
| A690-30 | REMOVE SIGNAL POLE | EA | 2 | 2 | 2 | 2 | ---- | | | | | | | | | | | | | 4 | 4 | 4 | 4 | |
| A690-50 | REMOVE CONTROLLER ASSEMBLY | EA | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A690-60 | REMOVE VEHICLE DETECTOR ASSEMBLY | EA | 1 | 1 | 2 | 2 | ---- | | | | | | | | | | | | | 3 | 3 | 3 | 3 | |
| A690-70 | REMOVE PEDESTRIAN DETECTOR ASSEMBLY | EA | ---- | ---- | 4 | 4 | ---- | | | | | | | | | | | | | 4 | 4 | 4 | 4 | |
| A690-80 | REMOVE SPAN WIRE ASSEMBLY | EA | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A690-90 | REMOVE CABLING AND CONDUIT | PI | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A690-91 | REMOVE EXISTING INTERCONNECT CABLE | LF | ---- | ---- | 1020 | 3934 | | | | | | | | | | | | | | 1020 | 3934 | 1020 | 3934 | |
| A690-100 | REMOVE MISCELLANEOUS SIGNAL EQUIPMENT | PI | 1 | 1 | 1 | 1 | ---- | | | | | | | | | | | | | 2 | 2 | 2 | 2 | |
| A700-48-18 | SIGN PANEL INSTALLATION | EA | 2 | 2 | 2 | 2 | ---- | | | | | | | | | | | | | 4 | 4 | 4 | 4 | |
| A700-48-28 | SIGN PANEL (INSTALL ONLY) | | | | | | | | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| A715-2-216 | CONDUIT (3" - DIRECTIONAL BORE) | LF | 345 | 311 | 564 | 447 | 67 | 62 | | | | | | | | | | | | 976 | 820 | 976 | 820 | |
| A715-5-12 | LUMINAIRE & BRACKET ARM (GALVANIZED STEEL) | EA | 2 | 2 | 1 | 1 | ---- | | | | | | | | | | | | | 3 | 3 | 3 | 3 | |

SEE GENERAL NOTE SHEET, FOR ALL NOTES PERTAINING TO ITEM NUMBERS.

DESIGNED BY: MAM DATE: 10-94
 DRAWN BY: MAM DATE: 10-94
 CHECKED BY: MLM DATE: 4-96
 APPROVED BY: *Shore* DATE: 11-14-96

| REVISIONS | | | | | | | | | | | |
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| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

TABULATION OF QUANTITIES

13010-5531/100001.dgn

GENERAL NOTES

ITEM NO. A630-1-11:
 ABOVE-GROUND CONDUIT SHALL BE USED FOR VERTICAL RUNS ON EXISTING POLES AS SHOWN IN PLANS, WHEN SIGNAL CABLE AND/OR OTHER CABLES CANNOT BE RE-INSTALLED IN EXISTING POLES. THIS CONDUIT IS PROVIDED FOR INSTALLATION OF SIGNAL, INTERCONNECT AND ELECTRICAL SERVICE CABLE.

ITEM NO. A630-1-12:
 PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT IN TRENCH.

ITEM NO. A630-1-12:
 ALL CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE.

ITEM NO. A630-1-12:
 WILL INCLUDE ADDITIONAL PAIRS TO WIRE TO THE FIRST SIGNAL HEAD ON MAST ARM POLE NO. 1 - ARM 1 AND MAST ARM POLE NO. 2 - ARM 2 FOR FUTURE 5-SECTION HEAD. (LOCATION NO. 2)

ITEM NO. A632-8-212:
 COMPUTER INTERCONNECT CABLE SHALL BE REA SPECIFICATION PE-39, (6 AND 12 PAIR), 300 VOLT VOICE GRADE, WITH COATED ALUMINUM SHIELD AND NO. 22 AWG CONDUCTORS.

ITEM NO. A635-1-11:
 CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY SIZING EACH PULL BOX SO THE COMMUNICATION AND/OR INTERCONNECT CABLE DOES NOT EXCEED MANUFACTURERS RECOMMENDED BENDING RADIUS.

ITEM NO. A639-1-12:
 THIS ITEM SHALL INCLUDE THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY LOCAL POWER COMPANIES FOR ELECTRICAL SERVICE CONNECTION.

ITEM NO. A639-1-12:
 THE SERVICE DISCONNECT FOR AN ELECTRICAL POWER SERVICE ASSEMBLY SHALL BE COMPRISED OF TWO CIRCUIT BREAKERS - ONE 60 AMP/120 VOLT FOR SIGNAL AND ONE 15 AMP/120 VOLT FOR LIGHTING LUMINAIRE.

ITEM NO. A639-2-1:
 CONDUCTOR SHALL BE NO. 6 AWG THW OR EQUIVALENT.

ITEM NO. A639-2-1:
 PAYMENT SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.

ITEM NO'S. A647-31-30, A647-31-38, A647-33-76, A647-33-80, AND A647-33-100:
 THESE ITEMS SHALL INCLUDE ALL LABOR AND TRANSPORTATION REQUIRED FOR PICKUP AND DELIVERY OF MAST ARMS AND HARDWARE. THE EQUIPMENT SHALL BE PICKED UP FROM THE F.D.O.T. SARASOTA MAINTENANCE YARD. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN FOR EQUIPMENT PICKUP (CALL 941-359-5666).

ITEM NO. A650-1-131:
 ALL SIGNAL HEADS SHALL HAVE GLASS LENSES.

ITEM NO. A650-1-131:
 THIS ITEM SHALL INCLUDE AN IN-LINE TERMINAL COMPARTMENT AND ALL SUPPORTING HARDWARE NECESSARY TO RIGIDLY MOUNT SIGNAL HEADS TO MAST ARM.

ITEM NO. A659-107:
 THIS ITEM SHALL INCLUDE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF SLIP BASE. SEE INDEX NO. 11861 FOR SLIP BASE DETAIL.

ITEM NO. A670-113-054:
 THIS ITEM SHALL INCLUDE ADDITIONAL COST OF CONCRETE, LABOR, AND OTHER MATERIALS FOR CONTROLLER BASE, PAD, AND STEPS AS REQUIRED.

ITEM NO. A670-113-054:
 THIS ITEM TO INCLUDE TYPE V CONTROLLER CABINET.

ITEM NOS. A665-11 AND A665-13:
 THIS ITEM SHALL INCLUDE ALL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF PEDESTRIAN ACTUATED SIGNAL SIGN FTP-47 OR FTP-48 AND PEDESTRIAN SIGNAL SIGN FTP-49. PEDESTRIAN SIGNAL SIGN FTP-49 SHALL BE MOUNTED ABOVE EACH PEDESTRIAN ACTUATED SIGNAL SIGN (FTP-47 OR FTP-48). SEE INDEX NO. 17784 FOR DETAIL OF SIGN FTP-49 AND LOCATION OF PEDESTRIAN ACTUATED SIGNAL SIGN.

ITEM NO. A670-113-054:
 CONTROLLER AND COORDINATION UNIT IS TO BE COMPATIBLE WITH EXISTING MANATEE COUNTY TRANSYT CLOSED LOOP COMPUTER SYSTEM.

ITEM NO. A670-113-054:
 THIS ITEM SHALL INCLUDE THE IMPLEMENTATION OF TIMINGS INTO ALL COMPONENTS. THE COORDINATION TIMINGS WILL BE SUPPLIED TO THE PROJECT ENGINEER UPON HIS REQUEST. REQUESTS SHOULD BE MADE TO DISTRICT I TRAFFIC OPERATIONS ENGINEER, TELEPHONE (941) 519-2490.

ITEM NO. A670-113-054:
 COORDINATION UNITS SHALL HAVE CAPABILITIES OF GENERATING SEPARATE FORCEOFFS AND PERMISSIVE PERIODS FOR MOVEMENTS 1, 4, AND 8.

ITEM NO. A700-48-18:
 THIS ITEM SHALL INCLUDE SIGN ARM BRACKET AND ALL SUPPORTING HARDWARE TO MAKE A COMPLETE AND ACCEPTED INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING SIGN SUPPORT COMPONENTS TO MEET THE FOLLOWING CRITERIA:

| | |
|--------------------------|-----------|
| SIGN AREA | 17.5 S.F. |
| MINIMUM DEAD LOAD WEIGHT | 80 LBS. |
| MINIMUM WIND LOAD | 1000 LBS. |

ITEM NO. A715-2-216:
 CONDUIT SHALL BE INSTALLED VIA DIRECTIONAL BORE METHOD.

ITEM NO. A715-2-216:
 DURING INSTALLATION OF DIRECTIONAL BORE CONDUIT, EXISTING SIGNAL SHALL BE PLACED IN FIXED-TIME OPERATION.

ITEM NO. A715-5-12:
 THIS ITEM IS FOR A 250 WATT HIGH PRESSURE SODIUM LUMINAIRE DESIGNED FOR MEDIUM-CUTOFF TYPE III DISTRIBUTION INTEGRAL MAGNETIC REGULATOR TYPE BALLAST WIRED FOR 120 VOLT.

BASE OF CONTROLLER TO BE SAME ELEVATION AS CENTER OF ROADWAY OR GREATER.
 EXISTING EQUIPMENT OWNERS: FLORIDA DEPARTMENT OF TRANSPORTATION
 SIGNAL TO BE MAINTAINED BY: CITY OF PALMETTO

FOR PAVEMENT MARKINGS, SEE PAVEMENT MARKING PLANS.

INSURANCE AS REFERENCED IN SECTION 7-13.3 IN THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (1991) SHALL BE PROVIDED BY THE CONTRACTOR WHEN INSTALLING OR WHEN WORKING ON OR IN THE VICINITY OF JOINT-USE POLES OR WHEN WORKING IN THE VICINITY OF POWER LINES.

TRAFFIC CONTROL PLAN FOR SIGNAL INSTALLATION: MAINTAIN TRAFFIC ON EXISTING ROADWAY BY USE OF INDEX NOS. 600, 620 & 622 OF THE ROADWAY AND TRAFFIC DESIGN STANDARDS, BOOKLET DATED JANUARY, 1994.

FLORIDA POWER AND LIGHT COMPANY SHALL ASSIST CONTRACTOR IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST 48 HOURS PRIOR TO INSTALLATION OF THIS EQUIPMENT.

BOTH SIGNAL LOCATIONS SHALL BE PLACED IN FULL OPERATION ON A MONDAY, TUESDAY OR WEDNESDAY. HOWEVER, THE SIGNAL SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY PRECEDING A HOLIDAY.

AT LEAST 48 HOURS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTRACTOR SHALL CONTACT:

CARMON C. THOMPSON, TRAF. OPS. LIAISON
 FLORIDA DEPARTMENT OF TRANSPORTATION
 P. O. BOX 1249 (801 N. BROADWAY)
 BARTOW, FLORIDA 33831
 PH: 941-519-2513
 (SUNCOM 557-2513)

SECTION 611-4, FIELD TESTS:
 IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS ACCEPTANCE PROCEDURES, THE 48 HOUR TEST SHALL START ON A MONDAY, TUESDAY OR WEDNESDAY. HOWEVER, THE 48 HOUR TEST SHALL NOT START ON THE DAY PRECEDING A HOLIDAY.

SCHEDULING OF THE CONDITIONAL ACCEPTANCE INSPECTION SHALL BE COORDINATED WITH CARMON THOMPSON, TRAFFIC OPERATIONS LIAISON (PH:941-519-2513) WITH A MINIMUM OF 48 HOURS NOTICE.

PRIOR TO THE 48 HOUR TEST (CONDITIONAL ACCEPTANCE TEST) ALL EQUIPMENT SHALL BE INSTALLED AND OPERABLE. RESULTS OF FIELD TESTS, I.E., SECTION 611-4.1, 4.2, 4.3, AND 4.4, SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:

- (A) COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.

DURING PHASE III MAINTENANCE OF TRAFFIC, THE SIGNAL CONTRACTOR SHALL INSTALL MAST ARMS, CONDUIT, PULL BOXES AND CONTROLLER TO PREVENT ANY DELAY OF PROJECT DUE TO EXISTING SIGNAL EQUIPMENT'S INTERFERENCE OF WIDENING. DURING PHASE III, HE MUST ALSO REMOVE ALL EXISTING CABLING AND CONDUIT AND SIGNAL POLES.

UTILITY OWNERS

- | | |
|---|---|
| MR. C.T. VOGEL W. REGION RELOCATION COORDINATOR FLORIDA POWER & LIGHT COMPANY P.O. BOX 1119 SARASOTA, FL 34230-1119 | MR. ROBERT MEWES ENGINEERING SPECIALIST GTE FLORIDA, INC. 5631 26TH STREET W. BRADENTON, FL 34207 |
| MR. TOM LUCAS, MANAGER PEOPLES GAS SYSTEMS, INC. 1565 STATE STREET SARASOTA, FL 34236 | MR. ED MILLS, CITY ENGINEER CITY OF PALMETTO 600 17TH STREET PALMETTO, FL 34221 |
| MR. ANDY FORAND STATE CONSTRUCTION MANAGER CABLEVISION INDUSTRIES P.O. BOX 6001 DELAND, FL 34723-6001 | |

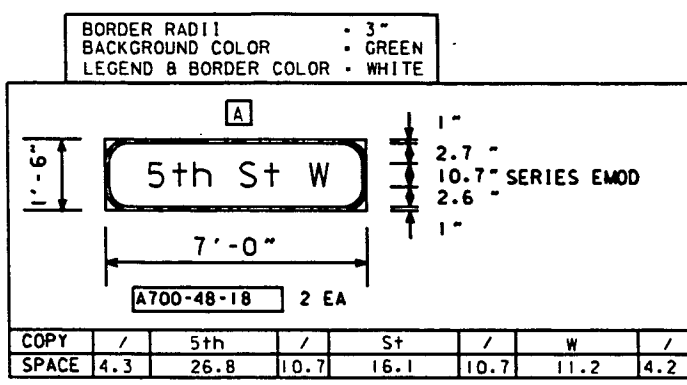
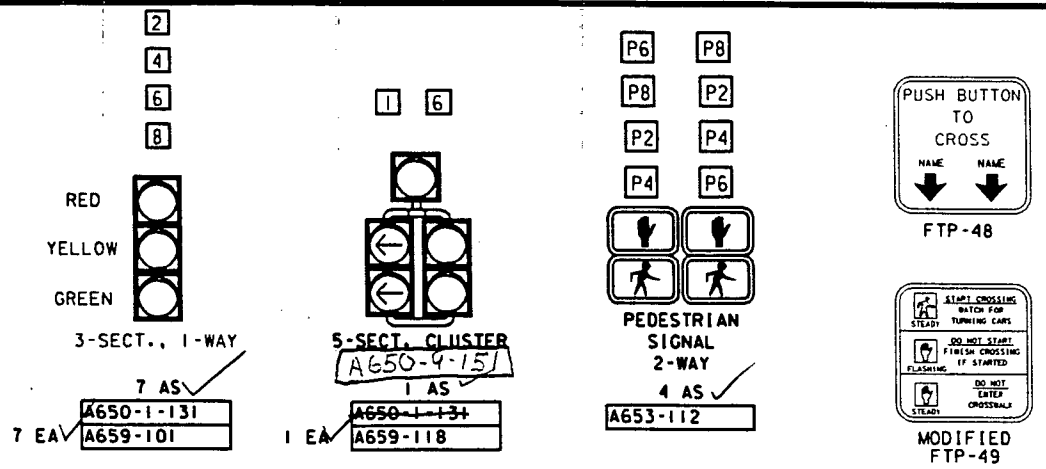
| | | |
|------------------|------------|---|
| DESIGNED BY: MAM | DATE: 9-96 | FLORIDA DEPARTMENT OF TRANSPORTATION APPROVED BY: <i>Sharon A. McCall</i> DATE: 11-14-96 |
| DRAWN BY: MAM | DATE: 9-96 | |
| CHECKED BY: MLM | DATE: 9-96 | |

Thu Nov 14 10:07:54 1996

| REVISIONS | | | | | | | | | | | |
|-----------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

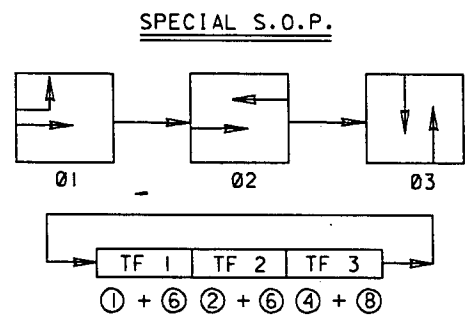
GENERAL NOTE SHEET



POLE LOCATION STA. 196 +50.34' LT

ALL SIGNAL HEADS TO HAVE BACKPLATES.
SIGNAL HEAD DETAILS
CONTROLLER OPERATIONS:

- MAJOR STREET IS U.S. BUS. 41 (8TH AVE. W.), PHASE 2 (MOVEMENTS 2 AND 6), AND MINOR STREET IS 5TH STREET W., PHASE 3 (MOVEMENTS 4 AND 8).
- SPECIAL SIGNAL OPERATING PLAN WITH THE FOLLOWING:
 - COORDINATION ON PHASE 2 (MOVEMENTS 2 AND 6) - TIME-BASE. SIGNAL IS COORDINATED WITH 7TH STREET W.
 - CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 4 (P4), 6 (P6) AND 8 (P8). THE FORCE-OFF FUNCTION FOR PHASE 3 SHALL NOT BE EFFECTIVE DURING THE TIMING OF PEDESTRIAN CLEARANCE INTERVAL FOR P4 AND P8. SYNCHRONIZATION SHALL BE MAINTAINED. THE CONTROLLER SHALL REMAIN IN THE COORDINATED MODE AND SHALL NOT REVERT TO ISOLATED OPERATION AS A RESULT OF PEDESTRIAN ACTUATION.
 - THE YIELD POINT SHALL BE THE POINT IN THE CYCLE WHERE THE COORDINATED PHASE 2 (MOVEMENTS 2 AND 6) IS TERMINATED SUBJECT TO THE PRESENCE OF A CONFLICTING CALL. THE YIELD POINT SHALL BE THE ZERO PERCENT OFFSET OF THE LOCAL CYCLE LENGTH.

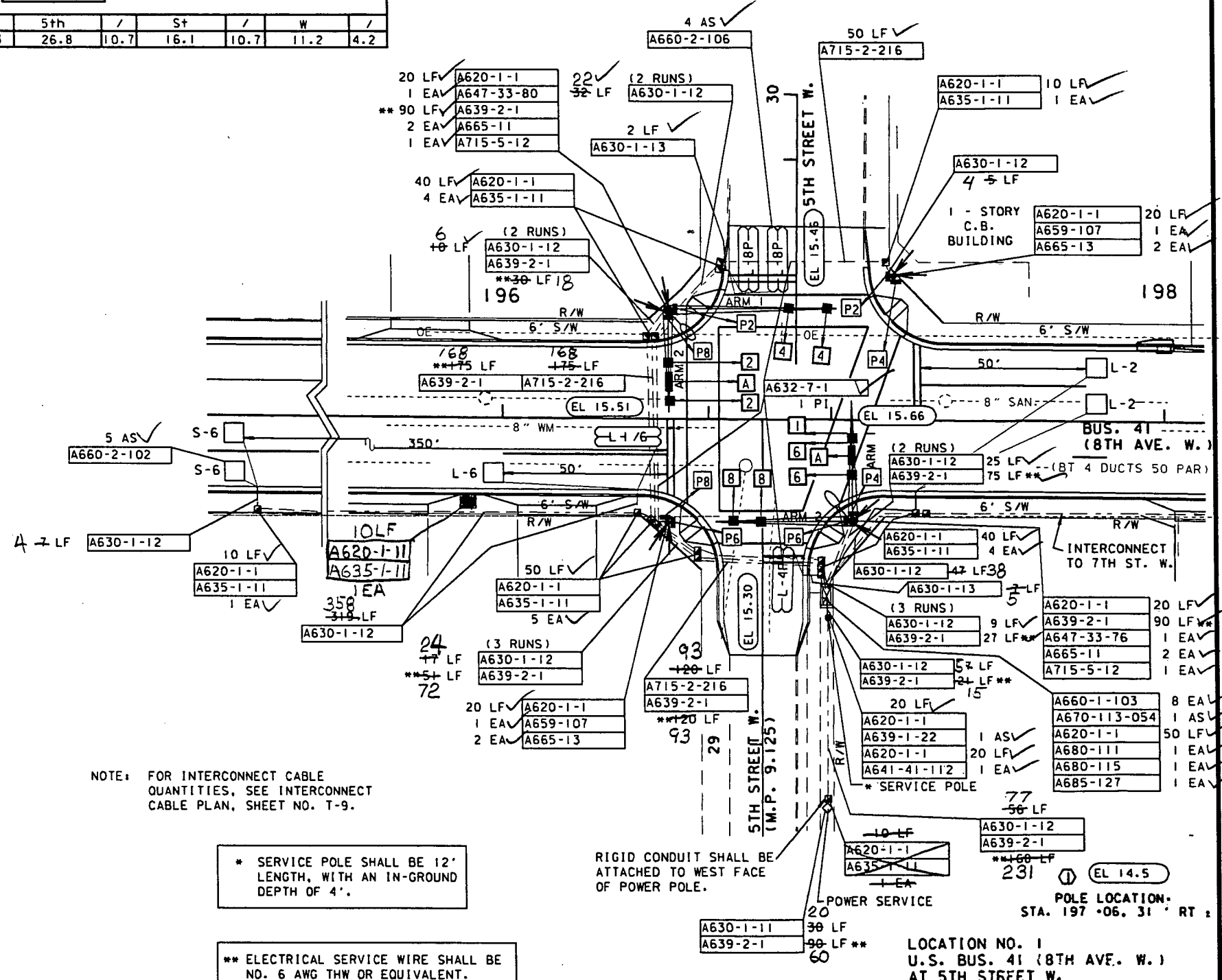


| TIMING FUNCTION | 1 | 2 | 3 |
|------------------|--------------------|-------------|---|
| MOVEMENT NO. | 1 6 2 6 4 8 | | |
| MIN. GRN. (INT.) | 7 --- 20 20 7 7 | | |
| EXT. (PASS) | 3 --- 3 3 3 3 | | |
| MAX. GRN. I | 20 --- 85 85 22 22 | | |
| MAX. GRN. II | --- | | |
| YELLOW CLR. | 4 --- 4 4 3 3 | | |
| ALL RED CLR. | --- | 2 2 2 2 | |
| PED. WALK | --- | 7 7 7 7 | |
| PED. CLR. | --- | 12 12 18 18 | |
| RECALL | --- | | |

| LOOP | NO. OF LOOPS | NO. OF NEW DETS. | NO. OF EXIST. DETS. | DELAY TIME* (SECONDS) |
|-------|--------------|------------------|---------------------|-----------------------|
| L-1/6 | 1 | 1 | --- | --- |
| L-2 | 2 | 1 | --- | --- |
| L-4P | 1 | 1 | --- | --- |
| L-6 | 1 | 1 | --- | --- |
| L-8P | 2 | 2 | --- | --- |
| S-6 | 2 | 2 | --- | --- |
| L- | | | | |
| L- | | | | |
| L- | | | | |

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.



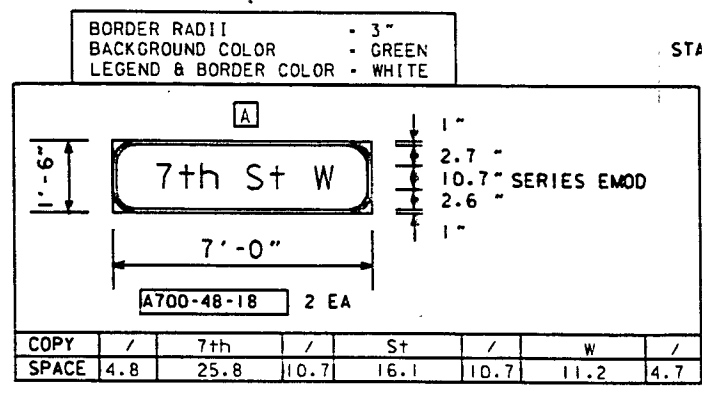
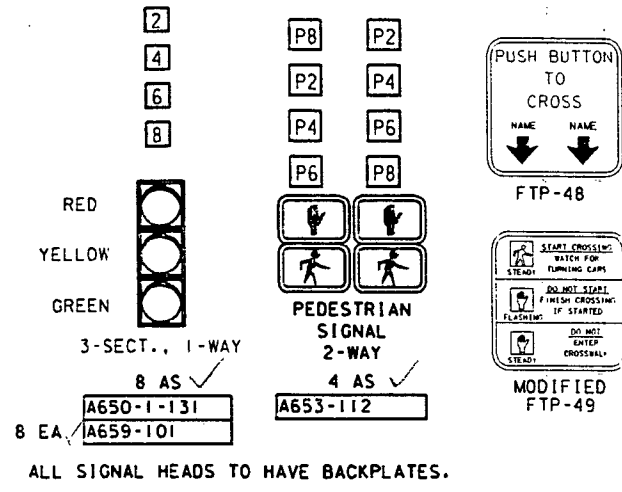
NOTE: FOR INTERCONNECT CABLE QUANTITIES, SEE INTERCONNECT CABLE PLAN, SHEET NO. T-9.

* SERVICE POLE SHALL BE 12' LENGTH, WITH AN IN-GROUND DEPTH OF 4'.

** ELECTRICAL SERVICE WIRE SHALL BE NO. 6 AWG THW OR EQUIVALENT.

DESIGNED BY: MAM DATE: 9/4
 DRAWN BY: MAM DATE: 9/4
 CHECKED BY: MLM DATE: 9/4
 APPROVED BY: *Sharon C. McAllister* DATE: 11-14-96

| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| | | | | | | | | | | | |

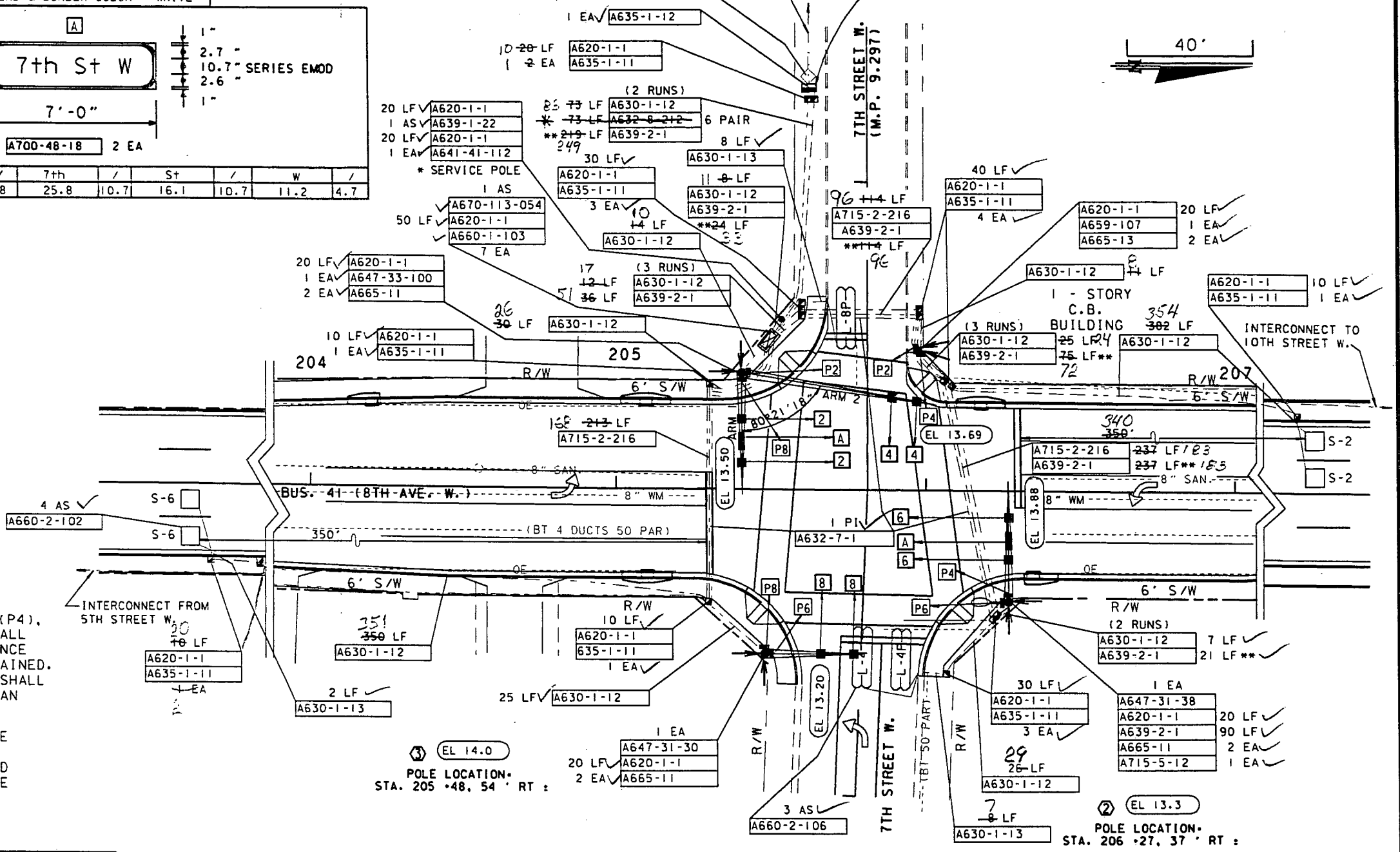


POLE LOCATION STA. 205 +41.37 LT : 51
EL 13.8

POLE LOCATION STA. 205 +48.54 RT :
EL 14.0

POLE LOCATION STA. 206 +27.37 RT :
EL 13.3

CONNECT WITH EXISTING INTERCONNECT



SIGNAL HEAD DETAILS

CONTROLLER OPERATIONS:

- MAJOR STREET IS U.S. BUS. 41 (8TH AVE. W.), PHASE 1 (MOVEMENTS 2 AND 6), AND MINOR STREET IS 7TH STREET W., PHASE 2 (MOVEMENTS 4 AND 8).
- STANDARD SIGNAL OPERATING PLAN NO. 1 WITH THE FOLLOWING:
 - COORDINATION ON PHASE 1 (MOVEMENTS 2 AND 6) - TIME-BASE. SIGNAL IS COORDINATED WITH 5TH STREET W. (SOUTH) AND 10TH ST. (NORTH).
 - CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 4 (P4), 6 (P6) AND 8 (P8). THE FORCE-OFF FUNCTION FOR PHASE 2 SHALL NOT BE EFFECTIVE DURING THE TIMING OF PEDESTRIAN CLEARANCE INTERVAL FOR P4 AND P8. SYNCHRONIZATION SHALL BE MAINTAINED. THE CONTROLLER SHALL REMAIN IN THE COORDINATED MODE AND SHALL NOT REVERT TO ISOLATED OPERATION AS A RESULT OF PEDESTRIAN ACTUATION.
 - THE YIELD POINT SHALL BE THE POINT IN THE CYCLE WHERE THE COORDINATED PHASE 1 (MOVEMENTS 2 AND 6) IS TERMINATED SUBJECT TO THE PRESENCE OF A CONFLICTING CALL. THE YIELD POINT SHALL BE THE ZERO PERCENT OFFSET OF THE LOCAL CYCLE LENGTH.

| TIMING FUNCTION | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------------|---|---|---|---|---|---|---|---|
| MOVEMENT NO. | 2 | | | | | | | |

POLE AND MAST ARM SCHEDULE

| LOCATION NO. | POLE NO. | POLE DATA | | | ARM DATA | | | | | | | | | | | LUMINAIRE ARM LENGTH | Z ANGLE BETWEEN ARMS | QUANTITY | ITEM NO. | |
|--------------|----------|---------------|---------|----------------------|--------------|----------|------------|----------|-------------|----------|----------|-------------|----------|----------|-------------------|----------------------|----------------------|----------|----------|-------------|
| | | A POLE HEIGHT | ARM NO. | B TOP OF POLE TO ARM | C ARM LENGTH | D SIGNAL | E ST. SIGN | F SIGNAL | G REG. SIGN | H SIGNAL | I SIGNAL | J REG. SIGN | K SIGNAL | L SIGNAL | M FUTURE ST. SIGN | | | | | |
| 1 | 1 | 28' | 1 | 8'-0" | 36' | 24' | 19' | 13' | | | | | | | | | 15' | 90° | 1 | A647-33-76 |
| | | | 2 | 8'-0" | 40' | 35' | --- | 26' | | | | | | | | 30' | | | | |
| 1 | 2 | 28' | 1 | 9'-0" | 50' | 47' | --- | 35' | | | | | | | | | 15' | 90° | 1 | A647-33-80 |
| | | | 2 | 9'-0" | 30' | 27' | 20' | 15' | | | | | | | | | | | | |
| 2 | 1 | 22' | 1 | 3'-0" | 38' | 28' | 21' | 14' | | | | | | | | | N/A | 80° | 1 | A647-33-100 |
| | | | 2 | 3'-0" | 62' | 56' | --- | 48' | | | | | | | 52' | | | | | |
| 2 | 2 | 28' | 1 | 8'-0" | 38' | 27' | 20' | 13' | | | | | | | | | 15' | N/A | 1 | A647-31-38 |
| | | | 2 | | | | | | | | | | | | | | | | | |
| 2 | 3 | 22' | 1 | 3'-0" | 30' | 27' | --- | 17' | | | | | | | | | N/A | N/A | 1 | A647-31-30 |
| | | | 2 | | | | | | | | | | | | | 22' | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | | | | | |
| | | | 2 | | | | | | | | | | | | | | | | | |

MAST ARMS WERE DESIGNED TO INCLUDE THE FOLLOWING ADDITIONAL LOADING:

1. A FUTURE 3-SECTION, 1-WAY SIGNAL HEAD MOUNTED 6" FROM END OF EACH ARM.
2. FUTURE 12" TUNNEL VISORS FOR EACH PROPOSED AND FUTURE SIGNAL HEAD.

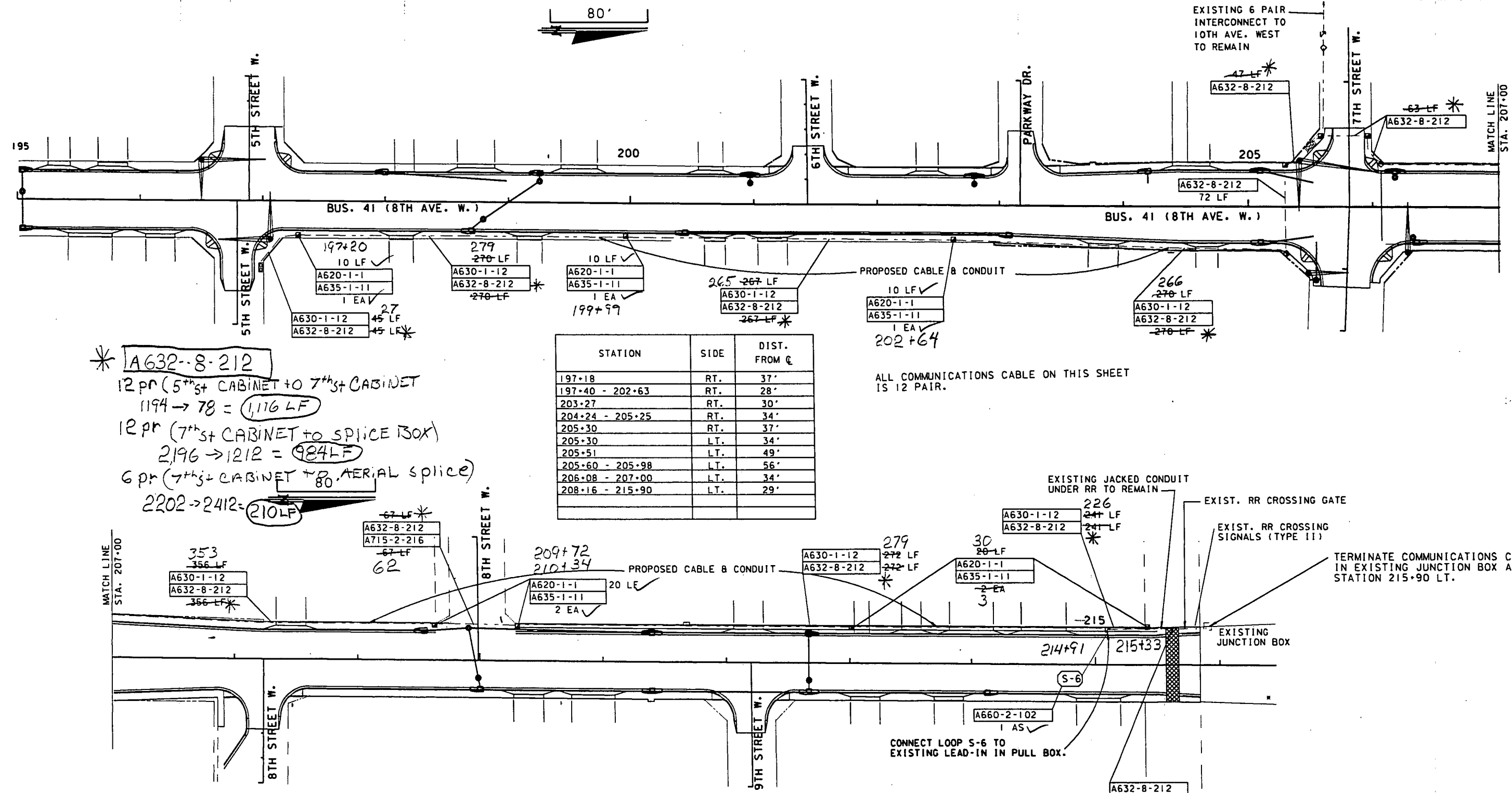
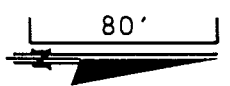
DESIGNED BY: MAM DATE: 1-86
 DRAWN BY: MAM DATE: 1-86
 CHECKED BY: ALM DATE: 1-86
 APPROVED BY: *Sharon C. McCall* DATE: 11-14-96

7/13/00/3531/messy01.dgn

| REVISIONS | | | | | | | | | | | |
|-----------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION | DATE | BY | DESCRIPTION |
| | | | | | | | | | | | |

FLORIDA DEPARTMENT OF TRANSPORTATION

MAST ARM DETAIL & SCHEDULE
SHEET 2 OF 2



* A632-8-212
 12 pr (5th st CABINET TO 7th st CABINET)
 1194 → 78 = 1,116 LF
 12 pr (7th st CABINET TO SPICE BOX)
 2196 → 1212 = 984 LF
 6 pr (7th st CABINET TO 80' AERIAL splice)
 2202 → 2412 = 210 LF

| STATION | SIDE | DIST. FROM Q |
|-----------------|------|--------------|
| 197+18 | RT. | 37' |
| 197+40 - 202+63 | RT. | 28' |
| 203+27 | RT. | 30' |
| 204+24 - 205+25 | RT. | 34' |
| 205+30 | RT. | 37' |
| 205+30 | LT. | 34' |
| 205+51 | LT. | 49' |
| 205+60 - 205+98 | LT. | 56' |
| 206+08 - 207+00 | LT. | 34' |
| 208+16 - 215+90 | LT. | 29' |

ALL COMMUNICATIONS CABLE ON THIS SHEET IS 12 PAIR.

MATCH LINE STA. 207+00

TERMINATE COMMUNICATIONS CABLE IN EXISTING JUNCTION BOX AT STATION 215+90 LT.

* 632-8-212
 SPEC. PROV. ART. 632-5.2 (PG 152)
 "PAYMENT FOR INTERCONNECT CABLE SHALL BE BASED UPON THE LENGTH INSTALLED BETWEEN CABLE TERMINATIONS AS DETERMINED BY THE MANUFACTURER'S SEQUENTIAL FOOTAGE MARKING PRINTED ON THE CABLE JACKET
 CABLE END READINGS SHALL BE RECORDED TO THE NEAREST FOOT.

DESIGNED BY: MAM DATE: 9/4
 DRAWN BY: MAM DATE: 9/4
 CHECKED BY: KLM DATE: 1/6
 APPROVED BY: [Signature] DATE: 11-14-96
 FLORIDA DEPARTMENT OF TRANSPORTATION






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|------|----|-------------|------|----|-------------|------|----|-------------|------|----|-------------|
| | | | | | | | | | | | |

Wed Oct 9 06:38:03 1996

RECOMMENDED DESIGN PARAMETERS

| Depth | Unit Wt. (pcf) | Angle of Internal Friction (degrees) | Cohesion (psf) |
|-------------|----------------|--------------------------------------|----------------|
| 0.0'-16.5' | 105 | 28 | ----- |
| 16.5'-26.5' | 125 | ----- | 2000 |
| 26.5'-35.8' | 125 | ----- | 4000 |

LEGEND :

-  SM, Silty sands, sand-silt mixtures.
-  SP-SM, Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
-  MH, Inorganic silts micaceous or diatomaceous fine sands or silts, elastic silts.
-  CH, Inorganic clays of High plasticity, fat clays.
-  SC, Clayey sands, sand-clay mixtures.

NOTES :

Numbers to the left of borings indicate SPT values for 12" penetration. (Unless otherwise noted.)

Design parameters based on SPT Borings performed at the subject intersection.

 Water Table

Type Rig - Diedrich 50

DA - Drilled through asphalt

DC - Drilled through concrete

All offsets based on centerline survey.

All Elevations based on BM - M-002

BENCHMARK LOCATION DESCRIPTION :

From the intersection of old U.S. 41 (8TH. Ave.) and old U.S. 301 (10TH. St.) in Palmetto, go south 6 blocks to 4TH. St. west and the mark is in the northeast corner of the intersection.

BENCHMARK DESCRIPTION :

Standard F.D.O.T. concrete monument with bronze disc with witness post 1.0' Northeast of mark; Elevation 13.013

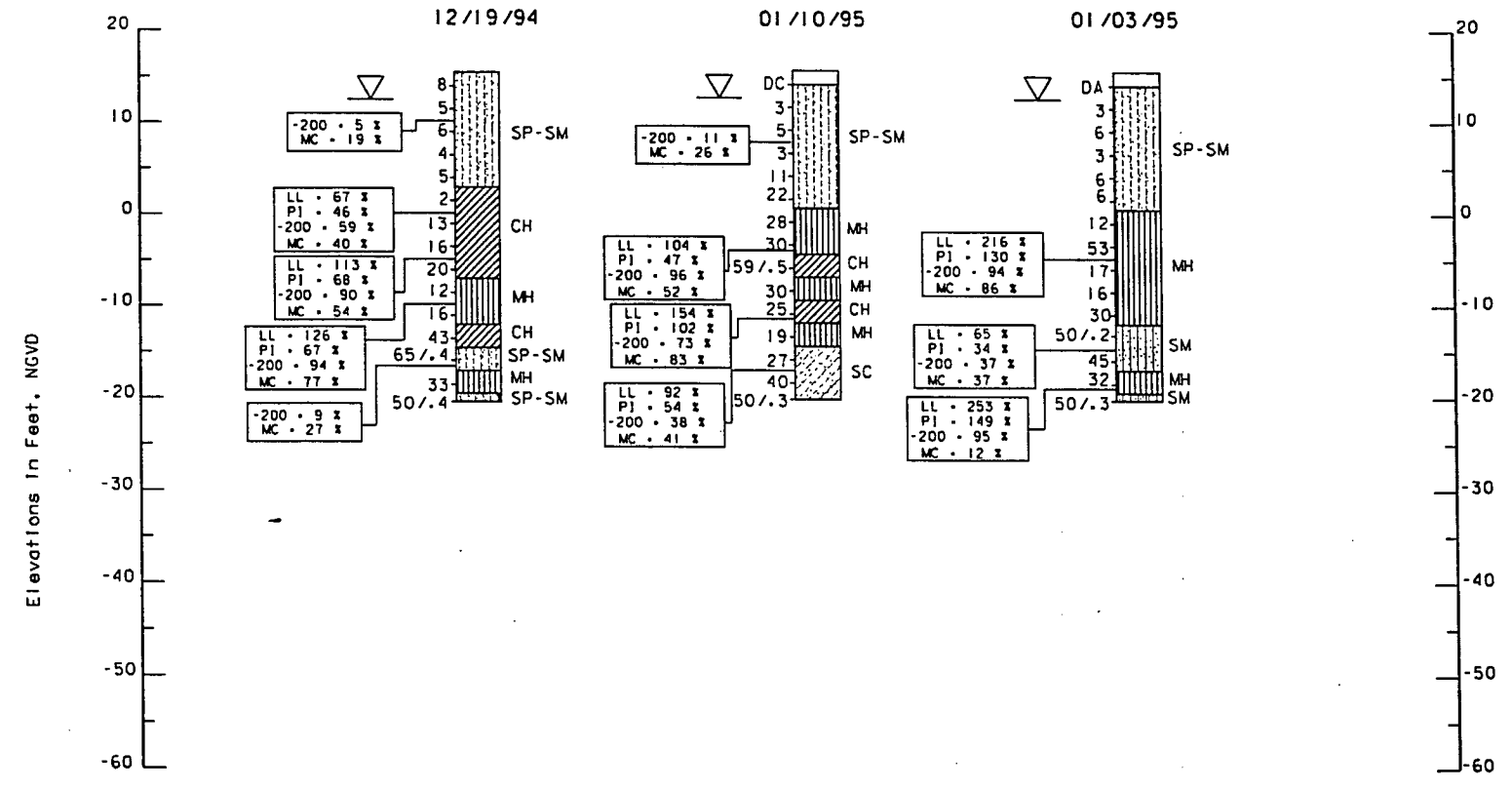
| Granular Materials- Relative Density | SPT (Blows/Ft) |
|--------------------------------------|-----------------|
| Very Loose | Less than 4 |
| Loose | 4 - 10 |
| Medium or Compact | 10 - 30 |
| Dense | 30 - 50 |
| Very Dense | Greater than 50 |

| Silts and Clays- Consistency | SPT (Blows/Ft) |
|------------------------------|-----------------|
| Very Soft | Less than 2 |
| Soft | 2 - 4 |
| Firm | 4 - 8 |
| Stiff | 8 - 15 |
| Very Stiff | 15 - 30 |
| Hard | Greater than 30 |

BORING NO. B-1
Sta. 196+55
43' RT.
Elev. 15.49

BORING NO. B-3
Sta. 197+15
57' LT.
Elev. 15.79

BORING NO. B-4
Sta. 197+21
38' RT.
Elev. 15.64



Tue Jan 31 10:18:02 1995 /usr4/proj/scsls/131351g.dgn

| <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>Date</th> <th>By</th> <th>Description</th> <th>Date</th> <th>By</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | Date | By | Description | Date | By | Description | | | | | | | <p>Drawn by: <i>[Signature]</i> 1-95</p> <p>Checked by: <i>[Signature]</i> 1-95</p> <p>Designed by: <i>[Signature]</i> 1-95</p> <p>Checked by: <i>[Signature]</i> 1-95</p> <p>Approved by: <i>[Signature]</i></p> | | <p>ENGINEER OF RECORD:</p> <p>MATERIALS OFFICE</p> <p>DISTRICT 1</p> <p>801 N. Broadway</p> <p>Bartow, Florida 33830-1249</p> | | <p>LOGO: </p> | | <p>SEAL: <i>[Signature]</i> 1/95</p> | | <p>FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>MATERIALS OFFICE</p> | | | <p>SHEET TITLE: Report of Core Borings</p> <p>PROJECT NAME: US 41 Business (8th. Ave.) Signal Pole, Location 1</p> | | <p>Drawing No. 1</p> <p>Index No.</p> |
|--|----|----------------|------|------------------------|-------------|-------------|------|----|-------------|--|--|--|--|--|--|---|--|---|--|--|--|--------------------------------------|--|---|--|--|--|--|---------------------------------------|
| Date | By | Description | Date | By | Description | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ROAD NO. 45 | | COUNTY Manatee | | PROJECT NO. 13010-3531 | | | | | | | | | | | | | | | | | | | | | | | | | |

RECOMMENDED DESIGN PARAMETERS

| Depth | Unit Wt. (psf) | Angle of Internal Friction (degrees) | Cohesion (psf) |
|-------------|----------------|--------------------------------------|----------------|
| 0.0'-19.0' | 105 | 28 | ----- |
| 19.0'-26.5' | 120 | ----- | 1000 |
| 26.5'-35.0' | 125 | ----- | 6000 |
| 35.0'-36.5' | 125 | ----- | 2000 |

LEGEND :

- SP, Poorly graded sands, sand-silt mixtures.
- SM, Silty sands, sand-silt mixtures.
- SC, Clayey sands, sand-clay mixtures.
- SP-SM, Poorly graded sands and gravelly sands, to silty sands, sand-silt mixtures.
- SM-SC, Silty sands, sand-silt mixtures to clayey sands, sand-clay mixtures.
- MH, Inorganic silts micaceous or diatomaceous fine sands or silts, elastic silts.
- CH, Inorganic clays of High plasticity, fat clays.

NOTES :

Numbers to the left of borings indicate SPT values for 12" penetration. (Unless otherwise noted.)
 All offsets based on centerline survey.
 Design parameters based on SPT Borings performed at the subject Intersection.
 DA - Drilled through asphalt
 DC - Drilled through concrete
 ∇ - Water Table
 Type Rig - Diedrich 50
 All Elevations based on BM - M-002

BENCHMARK LOCATION DESCRIPTION :

From the Intersection of old U.S. 41 (8TH. Ave.) and old U.S. 301 (10TH. St.) In Palmetto, go south 6 blocks to 4TH. St. west and the mark is in the northeast corner of the Intersection.

BENCHMARK DESCRIPTION :

Standard F.D.O.T. concrete monument with bronze disc with witness post 1.0' Northeast of mark; Elevation 13.013

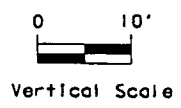
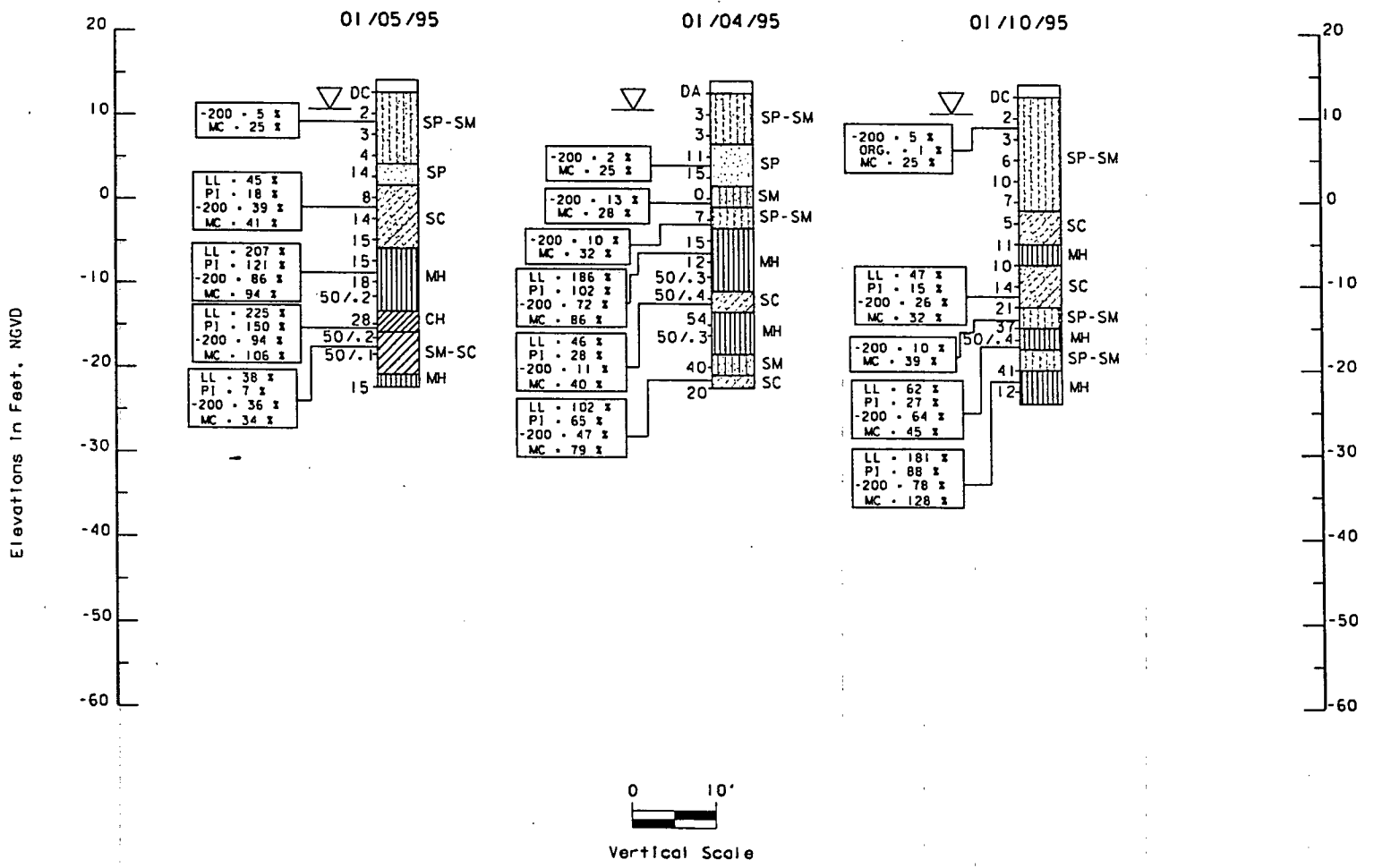
| Granular Materials- Relative Density | SPT (Blows/Ft) |
|---|-------------------|
| Very Loose | Less than 4 |
| Loose | 4 - 10 |
| Medium or Compact | 10 - 30 |
| Dense | 30 - 50 |
| Very Dense | Greater than 50 |

| Silts and Clays- Consistency | SPT (Blows/Ft) |
|---------------------------------|-------------------|
| Very Soft | Less than 2 |
| Soft | 2 - 4 |
| Firm | 4 - 8 |
| Stiff | 8 - 15 |
| Very Stiff | 15 - 30 |
| Hard | Greater than 30 |

BORING NO. B-1
Sta. 205+27
38' RT.
Elev. 14.23

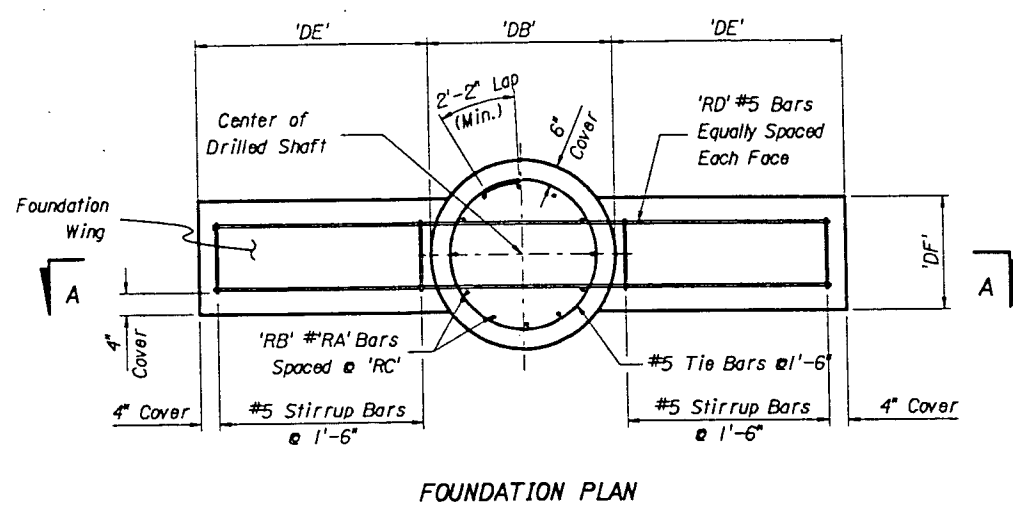
BORING NO. B-4
Sta. 205+30
40' RT.
Elev. 14.28

BORING NO. B-2
Sta. 206+05
43' RT.
Elev. 13.88



Tue Jan 31 10:18:40 1995 "1314/pro1/sol1s713151.s.dgn"

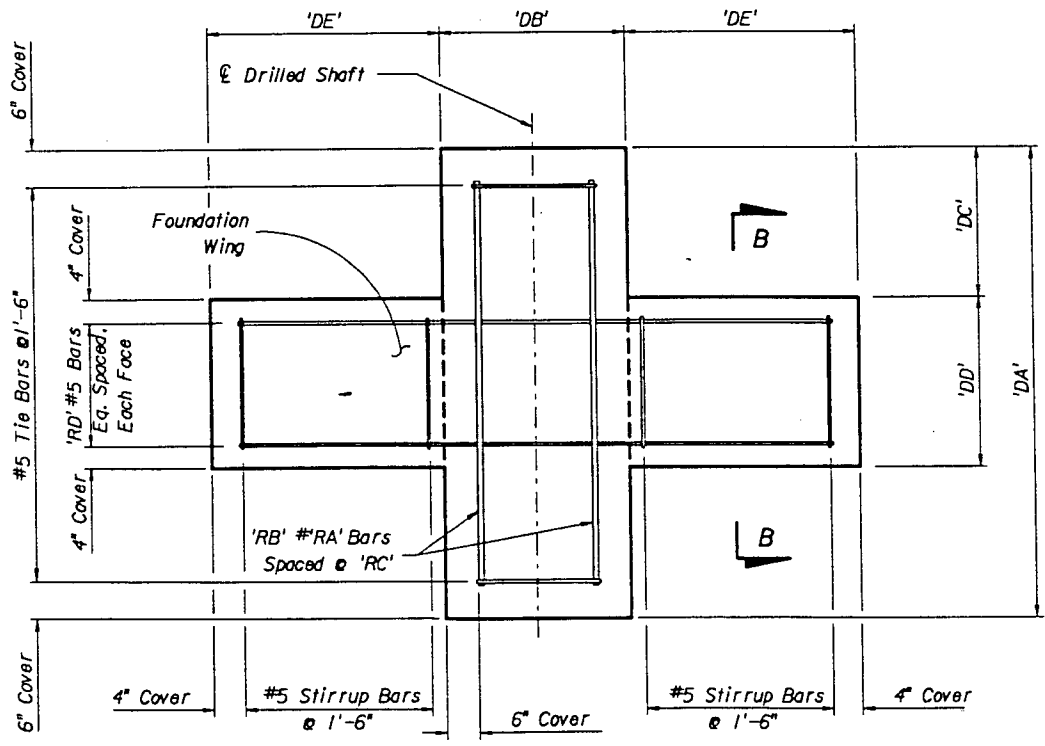
| REVISIONS | | Names | | Dates | | ENGINEER OF RECORD: | LOGO: | SEAL: | FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS OFFICE | SHEET TITLE: Report of Core Borings | Drawing No. 1 |
|-----------|----|-------------|------|-------|-------------|---|-------|-------|--|--|------------------|
| Date | By | Description | Date | By | Description | | | | | | |
| | | | | | | DISTRICT 1 801 N. Broadway Bartow, Florida 33830-1249 | | | ROAD NO. COUNTY PROJECT NO. 45 Manatee 13010-3531 | PROJECT NAME: US 41 Business (8th. Ave.) Signal Pole, Location 2 | Index No. |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |



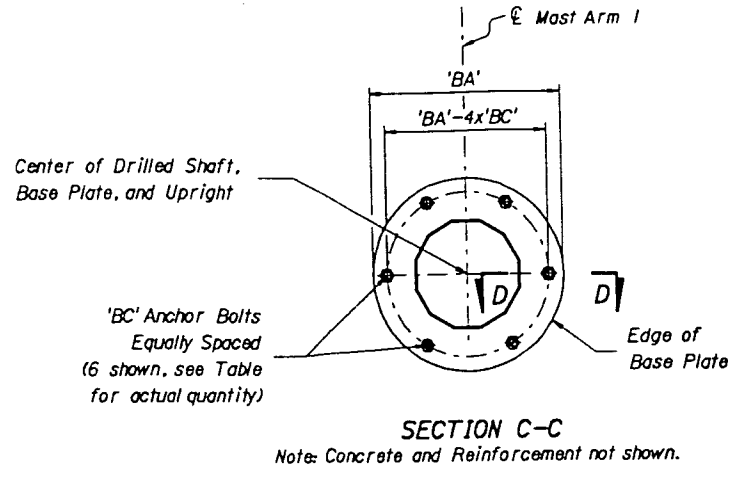
FOUNDATION PLAN

Note: If Foundation wings are not required, dimensions 'DD', 'DE', and 'DF' are zero.

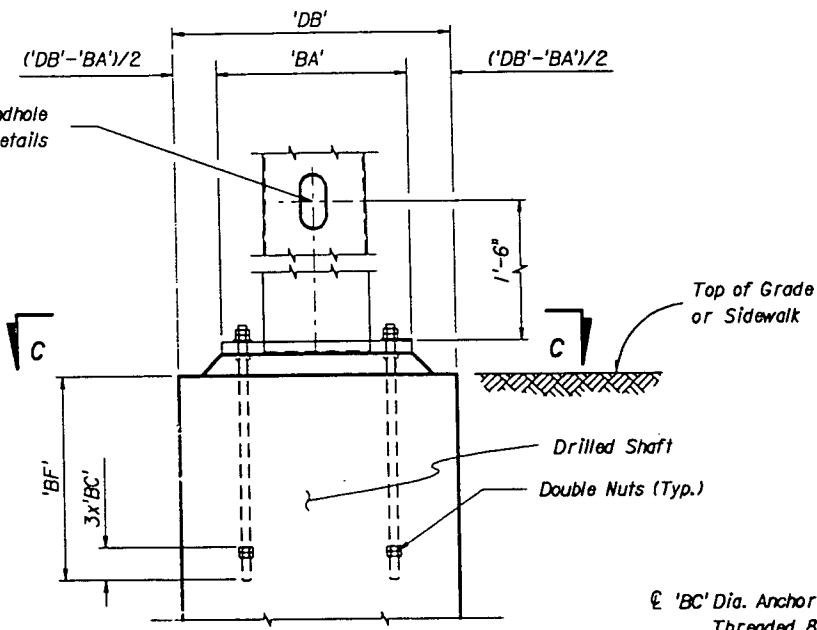
Note: 6" min. cover on Shaft Reinforcement, 4" min. cover on wing reinforcement.



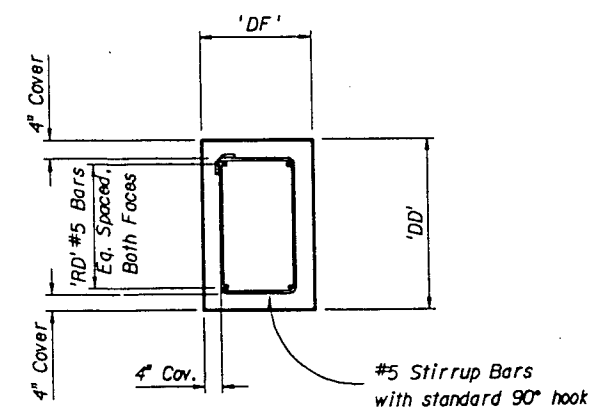
SECTION A-A



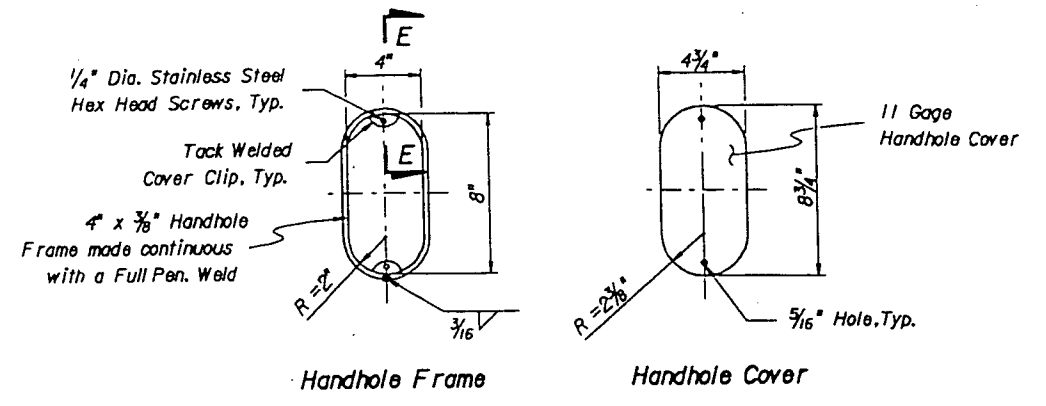
SECTION C-C
Note: Concrete and Reinforcement not shown.



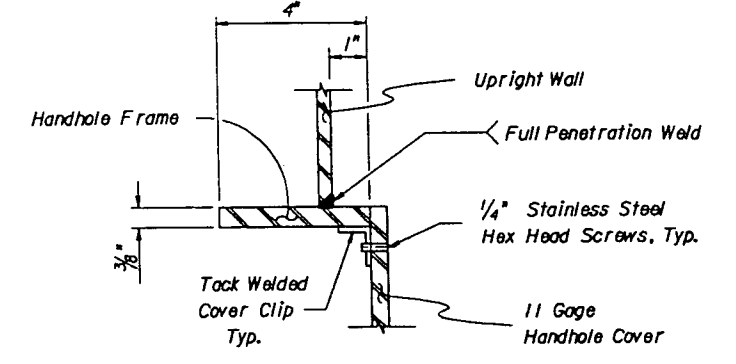
BASE PLATE AND ANCHORAGE ELEVATION
Note: Reinforcement not shown



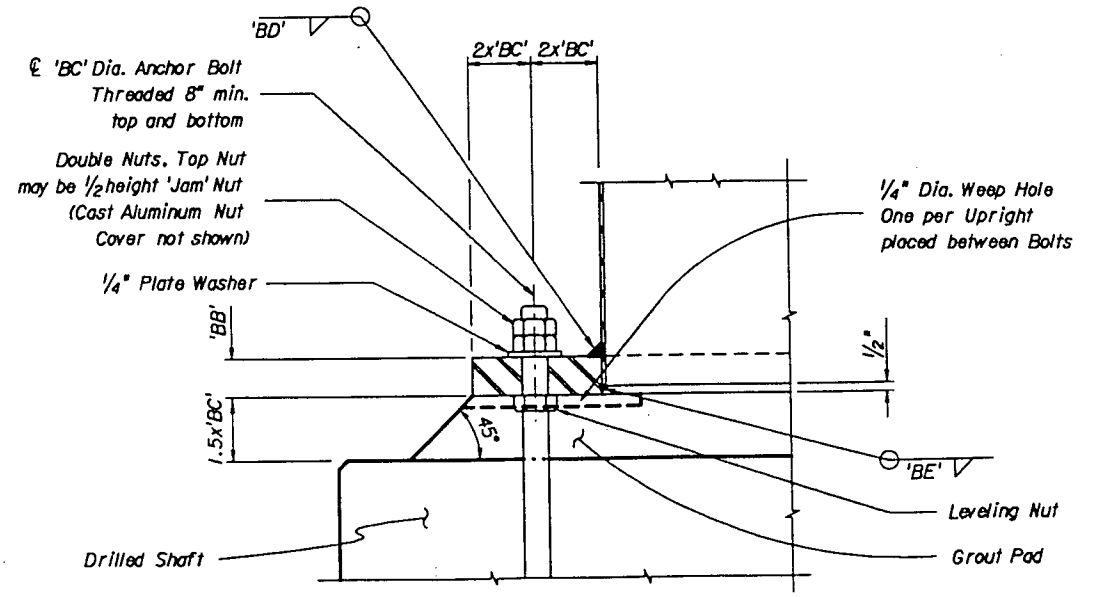
SECTION B-B



Handhole Frame Handhole Cover



Section E-E (thru Handhole)

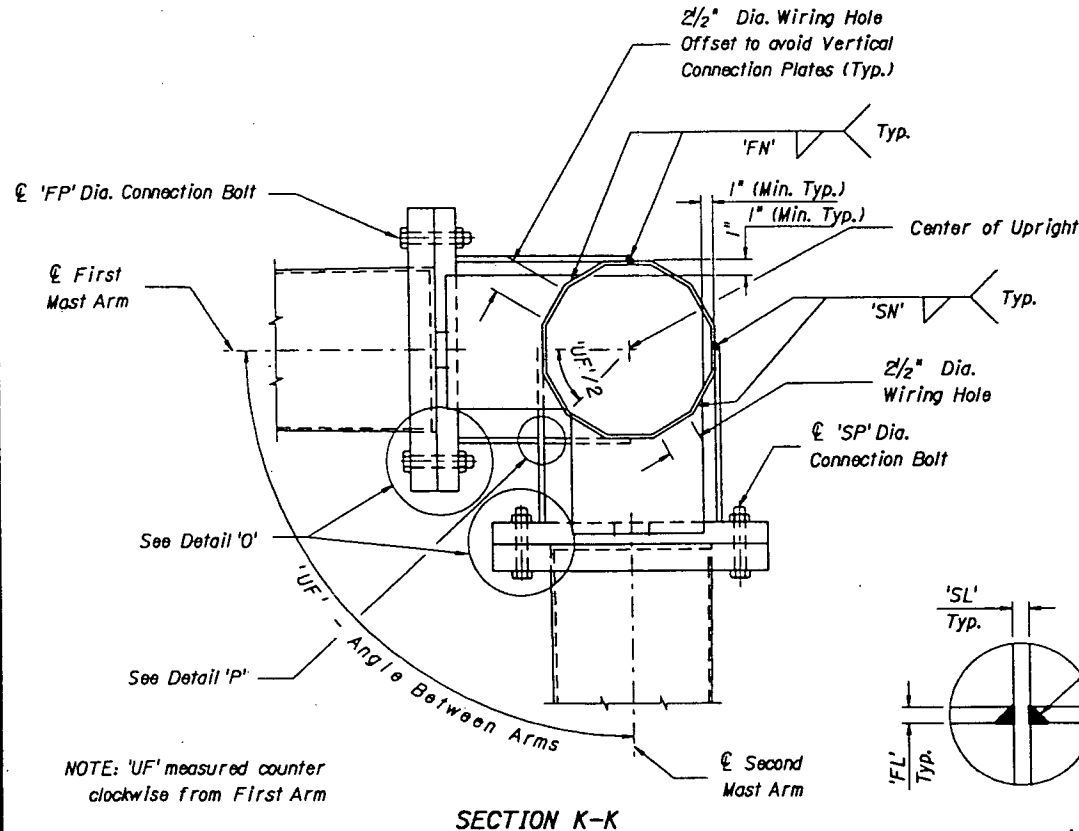


Section D-D

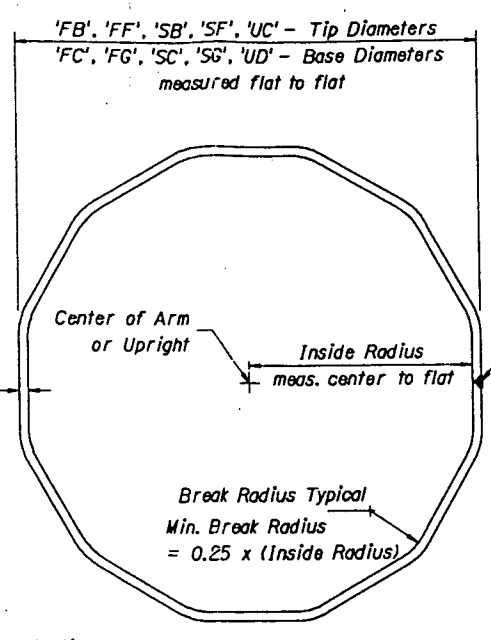
NOTE: Work this Drawing with Index Nos. 2021E, 2023E (Single Arm), 2024E (Double Arm), and 2025E.

NOTE: See Index 2025E for referenced dimensions, sizes, and quantities.

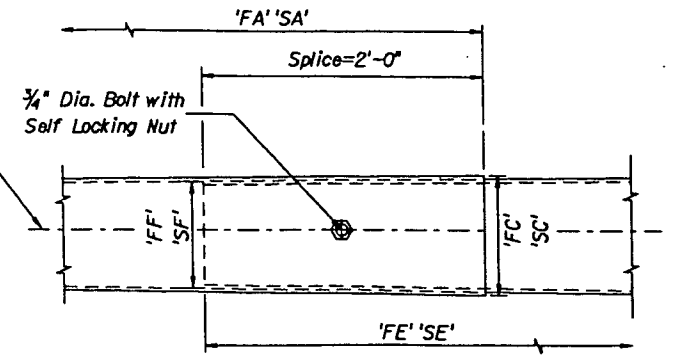
| REVISIONS | | | | | ENGINEER OF RECORD: | | LOGO: | | SEAL: | | FLORIDA DEPARTMENT OF TRANSPORTATION | | SHEET TITLE: | | Drawing No. | |
|-----------|----|-------------|------|----|---------------------|---------------------------------|-------|-----------------|-------|-----------------------------|--------------------------------------|-----------------------------------|--------------|-----------|-------------|--|
| Date | By | Description | Date | By | Description | STRUCTURES DESIGN OFFICE | | CENTRAL OFFICE | | STRUCTURES DESIGN OFFICE | | CANTILEVER SIGNAL STRUCTURE | | 1 of 1 | | |
| | | | | | | 605 Suwannee Street, MS 33 | | T. J. Faulk | | ROAD NO. COUNTY PROJECT NO. | | FOUNDATION AND BASE PLATE DETAILS | | Index No. | | |
| | | | | | | Tallahassee, Florida 32399-0450 | | August 16, 1996 | | 45 MANATEE 13010-3531 | | STATE ROAD NO. 45 | | 2022E | | |
| | | | | | | Approved by REN | | | | | | | | | | |



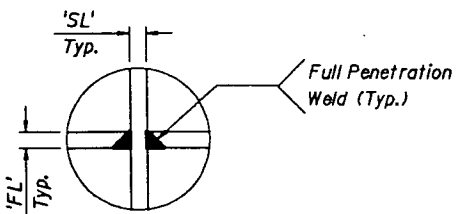
SECTION K-K



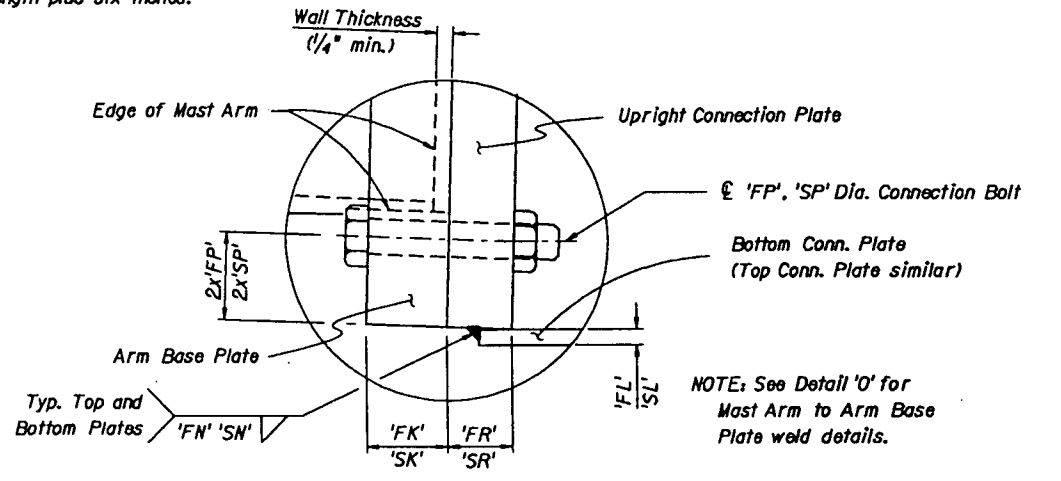
SECTION M-M



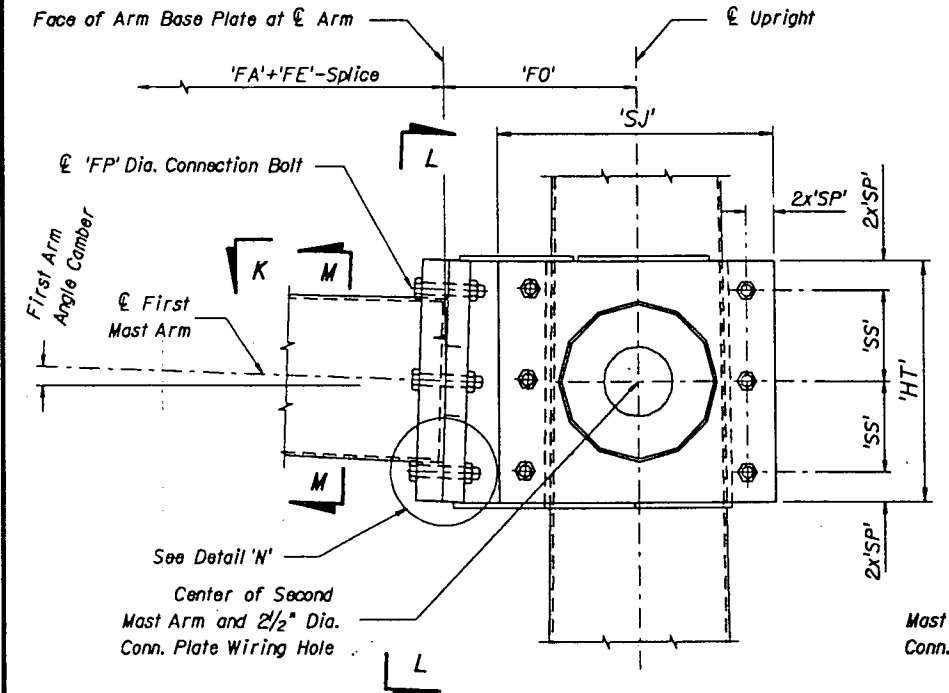
Arm Splice Detail



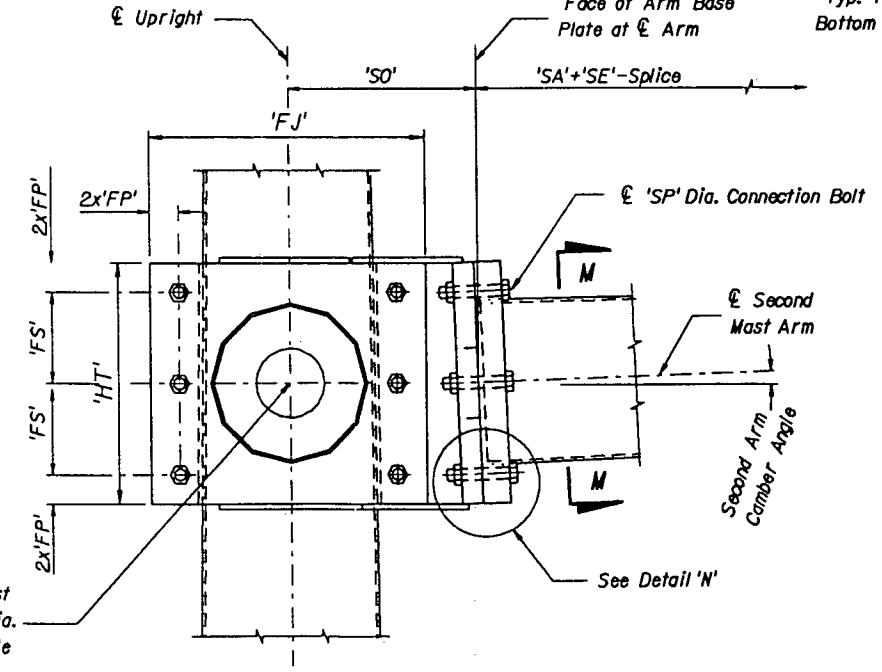
DETAIL 'P'



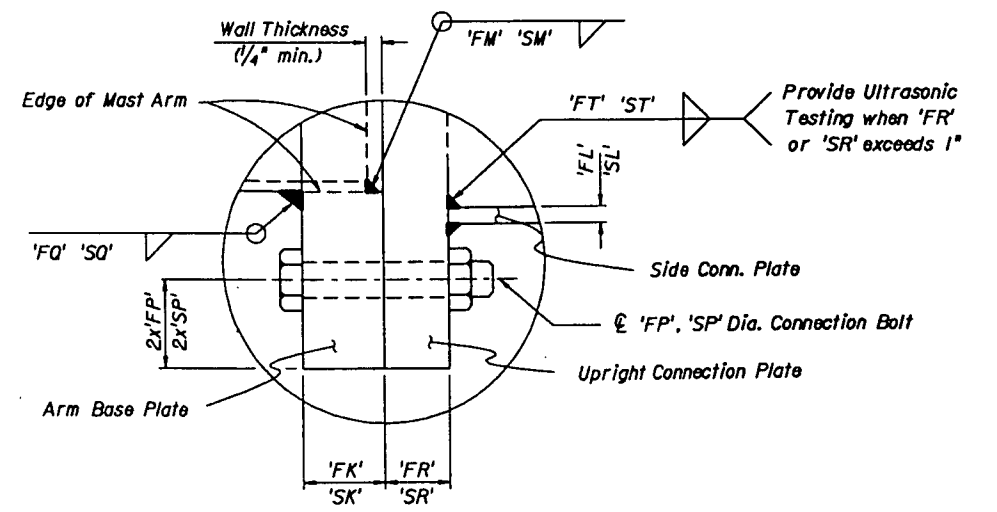
DETAIL 'N'



ELEVATION
(Double Arm Connection)



SECTION L-L



DETAIL 'O'

NOTE: Details shown on this sheet are for 12 sided pole sections. However, sections with more than 12 sides and round sections are permitted.

NOTE: Work this Drawing with Index Nos. 2021E, 2022E, 2023E (Single Arm), and 2025E.

NOTE: See Index 2025E for referenced dimensions, sizes, and quantities.

| REVISIONS | | Date | By | Description |
|-----------|--|------|----|-------------|
| | | | | |

| Drawn by | Checked by | Designed by | Checked by | Approved by |
|----------|------------|-------------|------------|-------------|
| AVP | MHA | AVP | MHA | REN |

ENGINEER OF RECORD:
STRUCTURES DESIGN OFFICE
CENTRAL OFFICE
605 Suwannee Street, MS 33
Tallahassee, Florida 32399-0450

LOGO:
SEAL:
Timothy A. Forwell
August 16, 1996

FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN OFFICE
ROAD NO. 45 COUNTY MANATEE PROJECT NO. 13010-3531

SHEET TITLE: CANTILEVER SIGNAL STRUCTURE
DOUBLE ARM CONNECTION DETAILS
PROJECT NAME: STATE ROAD NO. 45
Drawing No. 1 of 1
Index No. 2024E

TABLE OF SIGNAL STRUCTURE VARIABLES

| LOCATION NUMBER | POLE NUMBER | FIRST ARM | | | | FIRST ARM EXTENSION | | | | SECOND ARM | | | | SECOND ARM EXTENSION | | | | UPRIGHT | | | | | |
|-----------------|-------------|-----------|---------|---------|---------|---------------------|---------|---------|---------|------------|---------|---------|---------|----------------------|---------|---------|---------|---------|--------|--------|--------|--------|---------|
| | | 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) |
| 1 | 1 | 36 | 6.96 | 12 | 0.225 | 0 | 0 | 0 | 0 | 40 | 7.4 | 13 | 0.225 | 0 | 0 | 0 | 0 | 28 | 20 | 15.08 | 19 | 0.2242 | 90 |
| 1 | 2 | 25 | 8.5 | 12 | 0.225 | 27 | 11.27 | 15.06 | 0.225 | 30 | 6.8 | 11 | 0.225 | 0 | 0 | 0 | 0 | 28 | 19 | 17.08 | 21 | 0.2242 | 90 |
| 2 | 1 | 38 | 6.68 | 12 | 0.225 | 0 | 0 | 0 | 0 | 31 | 9.66 | 14 | 0.225 | 33 | 13.27 | 17.9 | 0.225 | 22 | 19 | 19.92 | 23 | 0.2242 | 80 |
| 2 | 2 | 38 | 7.68 | 13 | 0.225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 20 | 13.08 | 17 | 0.225 | 0 |
| 2 | 3 | 30 | 6.8 | 11 | 0.225 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 19 | 10.92 | 14 | 0.225 | 0 |

TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

| LOCATION NUMBER | POLE 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 | 1 | 6 | 24 | 26 | 1.625 | 0.5 | 0.188 | 0.188 | 15.1 | 1 | 0.438 | 1.625 | 9.875 | 0.188 | 6 | 24 | 26 | 1.625 | 0.5 | 0.188 | 0.188 | 12.1 | 1 | 0.438 | 1.625 | 9.875 | 0.188 |
| 1 | 2 | 6 | 24 | 28 | 1.875 | 0.5 | 0.188 | 0.313 | 16.17 | 1 | 0.5 | 1.875 | 9.875 | 0.188 | 6 | 24 | 28 | 1.375 | 0.5 | 0.188 | 0.188 | 13.17 | 1 | 0.438 | 1.375 | 9.875 | 0.188 |
| 2 | 1 | 6 | 24 | 30 | 1.5 | 0.5 | 0.188 | 0.188 | 19.67 | 1 | 0.5 | 1.5 | 9.875 | 0.188 | 6 | 24 | 32 | 2.125 | 0.625 | 0.188 | 0.375 | 14.17 | 1.25 | 0.5 | 2.125 | 9.375 | 0.188 |
| 2 | 2 | 6 | 17 | 24 | 1.625 | 0.5 | 0.188 | 0.313 | 11.1 | 1 | 0.438 | 1.625 | 6.5 | 0.188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 3 | 6 | 14.5 | 21 | 1.5 | 0.5 | 0.188 | 0.313 | 9.67 | 1 | 0.438 | 1.5 | 5.25 | 0.188 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE OF SIGNAL STRUCTURE VARIABLES (CONT.)

| LOCATION NUMBER | POLE NUMBER | UPRIGHT BASE CONNECTION (In) | | | | | | | | DRILLED SHAFT AND SHAFT WINGS (ft) | | | | | | | | SHAFT REINFORCEMENT | | | |
|-----------------|-------------|------------------------------|----|------|-------|-------|-------|----|----|------------------------------------|----|----|----|----|----|----|---------|---------------------|--|--|--|
| | | #BOLTS | BA | BB | BC | BD | BE | BF | DA | DB | DC | DD | DE | DF | RA | RB | RC (In) | RD | | | |
| 1 | 1 | 6 | 30 | 1.75 | 1.375 | 0.188 | 0.188 | 28 | 19 | 4 | 0 | 0 | 0 | 0 | 9 | 19 | 5.875 | 0 | | | |
| 1 | 2 | 6 | 32 | 1.75 | 1.375 | 0.188 | 0.188 | 28 | 21 | 4 | 0 | 0 | 0 | 0 | 9 | 19 | 5.875 | 0 | | | |
| 2 | 1 | 8 | 34 | 1.75 | 1.375 | 0.188 | 0.188 | 28 | 26 | 4 | 0 | 0 | 0 | 0 | 9 | 19 | 5.875 | 0 | | | |
| 2 | 2 | 6 | 28 | 2 | 1.375 | 0.25 | 0.188 | 29 | 16 | 4 | 0 | 0 | 0 | 0 | 9 | 19 | 5.875 | 0 | | | |
| 2 | 3 | 6 | 25 | 1.75 | 1.375 | 0.25 | 0.188 | 28 | 13 | 4 | 0 | 0 | 0 | 0 | 9 | 19 | 5.875 | 0 | | | |

FOUNDATION NOTES:

- Design based on Borings taken JAN, 1995 sealed by FDOT
 - Assumptions and Values used in design:
 - Cohesionless Soil
 - Soil Friction Angle = 28 Degrees at all Locations
 - Soil Weight = 55 lbs/cf at Location 1, Pole 1
 - = 55 lbs/cf at Location 1, Pole 2
 - = 53 lbs/cf at Location 2, Pole 1
 - = 54 lbs/cf at Location 2, Pole 2
 - = 57 lbs/cf at Location 2, Pole 3
- Design Groundwater level 3 feet below surface at all locations.

NOTE: Work this Drawing With Index Nos. 2021E, 2022E and 2023E (Single Arm), and 2024E (Double Arm)

| | | | | | | | | | | | | | |
|----------------------------|----|-------------|------|---------------------|-------------|-------------|------------|-------|--|--------------------------------------|-------------------|-------------------------------------|--|
| F: 18EC/DGN/AS10/2025E.DGN | | REVISIONS | | ENGINEER OF RECORD: | | LOGO: | | SEAL: | | FLORIDA DEPARTMENT OF TRANSPORTATION | | SHEET TITLE: | |
| Date | By | Description | Date | By | Description | Drawn by | Names | Dates |  T. Farrell August 16, 1996 | STRUCTURES DESIGN OFFICE | | TABLE OF SIGNAL STRUCTURE VARIABLES | |
| | | | | | | Checked by | TJF | 7-96 | | ROAD NO. | | PROJECT NO. | |
| | | | | | | Designed by | TJF | 7-96 | | 45 | | 13010-3531 | |
| | | | | | | Checked by | CN | 7-96 | | COUNTY | | PROJECT NAME: | |
| | | | | | | Approved by | T. FARRELL | | MANATEE | | STATE ROAD NO. 45 | | |
| | | | | | | | | | | DRAWING NO. | | 1 of 1 | |
| | | | | | | | | | | INDEX NO. | | 2025E | |