

80724  
50400

692711

# PHASES I AND II

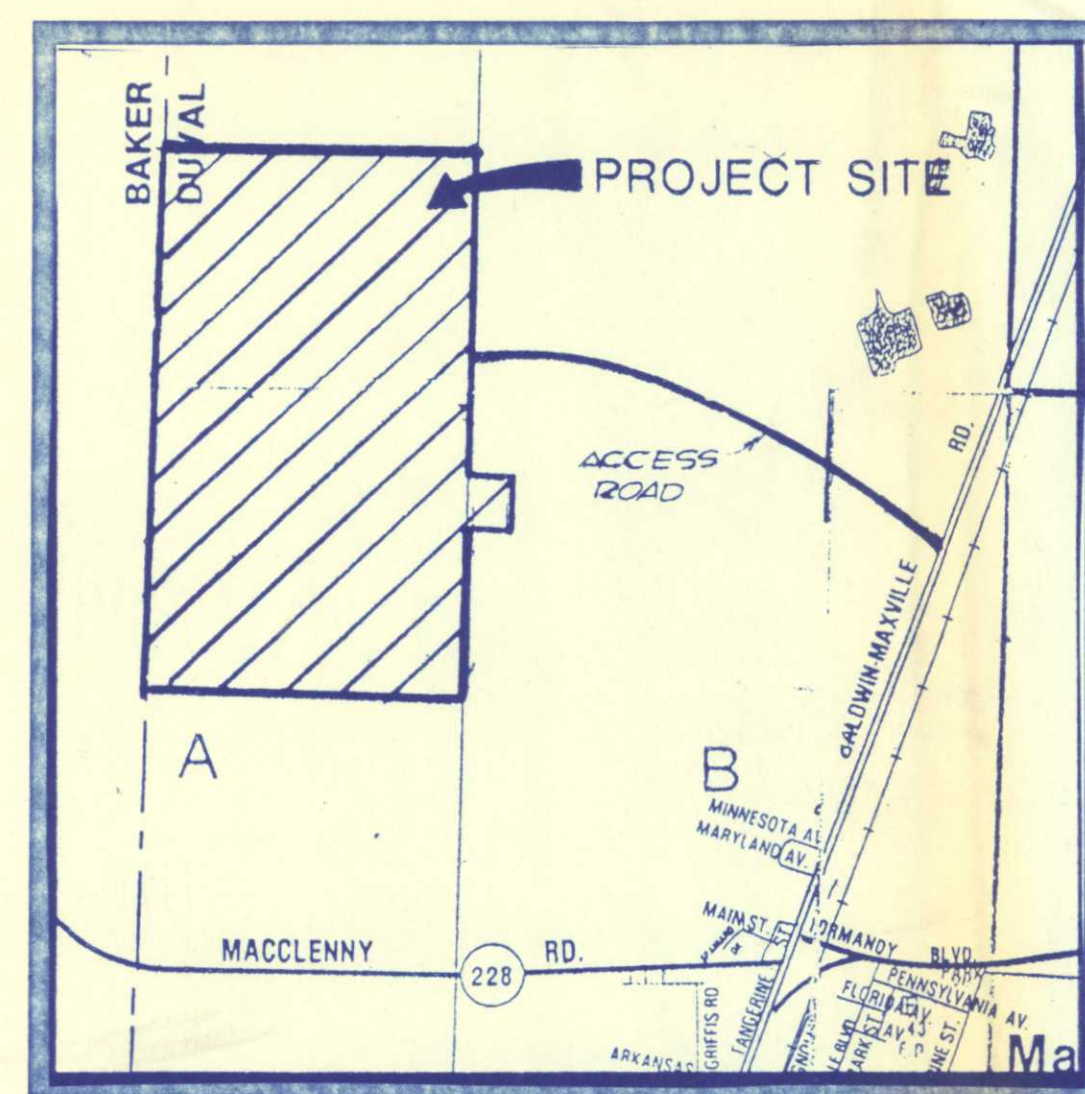
## "AS - BUILTS"

### OF

## TRAIL RIDGE LANDFILL

### FOR

## TRAIL RIDGE LANDFILL INC.



VICINITY MAP  
SCALE : 1" = 3000'



## SUNSHINE STATE SURVEYORS INC.

SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH  
JACKSONVILLE, FLORIDA 32216  
(904) 642-8550

UPDATED: JANUARY, 1993  
UPDATED: DECEMBER, 1992  
DATE: SEPTEMBER, 1992

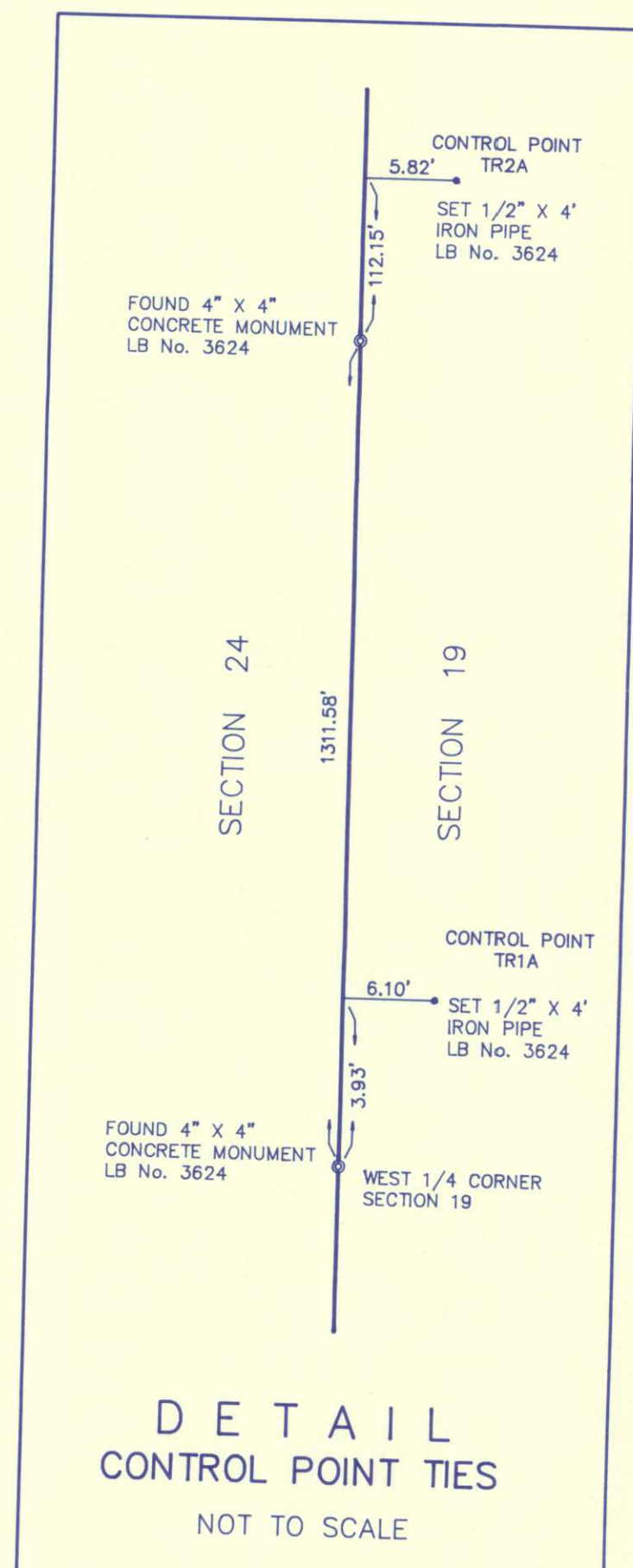
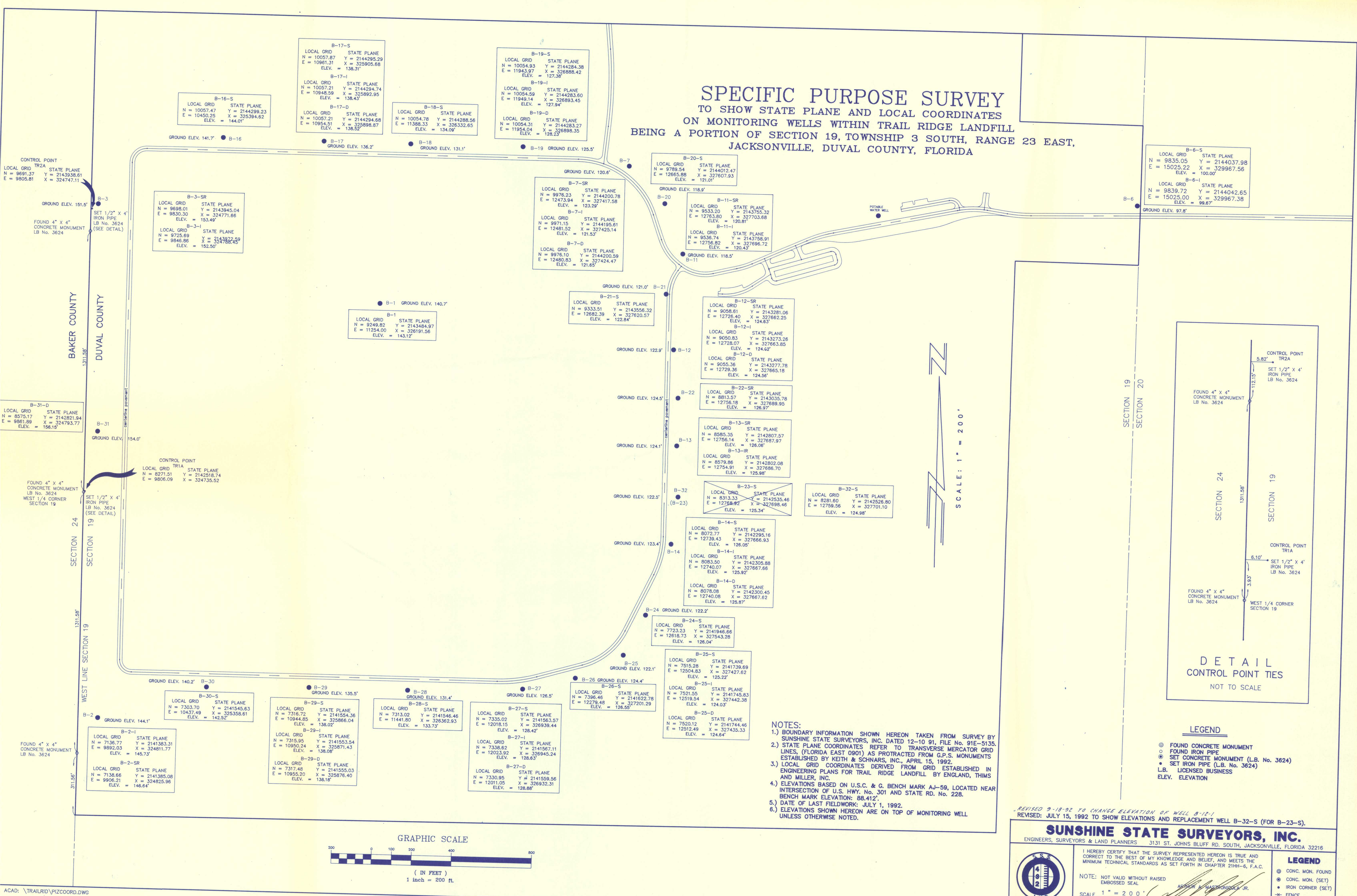
### INDEX OF DRAWINGS

| SHEET NO. | DESCRIPTION                                                          |
|-----------|----------------------------------------------------------------------|
| 1         | GROUNDWATER MONITORING WELLS                                         |
| 2         | LINER SYSTEM "AS-BUILTS"                                             |
| 3         | LINER SYSTEM "AS-BUILTS"                                             |
| 4         | LINER SYSTEM "AS-BUILTS"                                             |
| 5         | LEACHATE FORCE MAIN "AS-BUILT"                                       |
| 6         | LEACHATE AREA ELECTRICAL "AS-BUILTS"                                 |
| 7         | DRAINAGE STRUCTURE AND SPREADER PIPE DATA SHEET                      |
| 8         | PHASE I AND II DRAINAGE STRUCTURE "AS-BUILT"                         |
| 9         | DETENTION LAKE "AS-BUILT"                                            |
| 10        | FILTER BED AREA "AS-BUILT"                                           |
| 11        | ANCILLARY AREA FORCE MAIN, WATER MAIN AND STORM DRAINAGE "AS-BUILTS" |
| 12        | ANCILLARY AREA FORCE MAIN, WATER MAIN AND STORM DRAINAGE "AS-BUILTS" |
| 13        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 14        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 15        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 16        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 17        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 18        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 19        | ENTRANCE ROAD STORM DRAINAGE "AS-BUILTS"                             |
| 20        | CLASS I FIRE PUMP / HYDROTANK STORMWATER ASBUILT                     |
| WT 1      | WATER TREATMENT FACILITY "AS-BUILTS"                                 |
| WT 2      | WATER TREATMENT FACILITY "AS-BUILTS"                                 |
| WT 3      | WATER TREATMENT FACILITY "AS-BUILTS"                                 |
| WT 4      | WATER TREATMENT PLANT "AS-BUILT"                                     |





SPECIFIC PURPOSE SURVEY  
TO SHOW STATE PLANE AND LOCAL COORDINATES  
ON MONITORING WELLS WITHIN TRAIL RIDGE LANDFILL  
BEING A PORTION OF SECTION 19, TOWNSHIP 3 SOUTH, RANGE 23 EAST,  
JACKSONVILLE, DUVAL COUNTY, FLORIDA



- NOTES:
- 1.) BOUNDARY INFORMATION SHOWN HEREON TAKEN FROM SURVEY BY SUNSHINE STATE SURVEYORS, INC. DATED 12-10-91, FILE NO. 91E-5135.
  - 2.) STATE PLANE COORDINATES REFER TO TRANSVERSE MERCATOR GRID LINES, (FLORIDA EAST 0901) AS PROTRACTED FROM G.P.S. MONUMENTS ESTABLISHED BY KEITH & SCHNARS, INC., APRIL 15, 1992.
  - 3.) LOCAL GRID COORDINATES DERIVED FROM GRID ESTABLISHED IN ENGINEERING PLANS FOR TRAIL RIDGE LANDFILL BY ENGLAND, THIMS AND MILLER, INC.
  - 4.) ELEVATIONS BASED ON U.S.C. & G. BENCH MARK AJ-59, LOCATED NEAR INTERSECTION OF U.S. HWY. No. 301 AND STATE RD. No. 228. BENCH MARK ELEVATION: 88.412'.
  - 5.) DATE OF LAST FIELDWORK: JULY 1, 1992.
  - 6.) ELEVATIONS SHOWN HEREON ARE ON TOP OF MONITORING WELL UNLESS OTHERWISE NOTED.

- LEGEND
- FOUND CONCRETE MONUMENT
  - FOUND IRON PIPE
  - SET CONCRETE MONUMENT (L.B. No. 3624)
  - SET IRON PIPE (L.B. No. 3624)
  - L.B. LICENSED BUSINESS
  - ELEV. ELEVATION

REVISED 9-18-92 TO CHANGE ELEVATION OF WELL B-12-1  
REVISED: JULY 15, 1992 TO SHOW ELEVATIONS AND REPLACEMENT WELL B-32-S (FOR B-23-S).

**SUNSHINE STATE SURVEYORS, INC.**  
ENGINEERS, SURVEYORS & LAND PLANNERS 3131 ST. JOHN'S BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216

I HEREBY CERTIFY THAT THE SURVEY REPRESENTED HEREON IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH IN CHAPTER 21HH-6, F.A.C.

NOTE: NOT VALID WITHOUT RAISED EMBOSSED SEAL

SCALE 1" = 200'

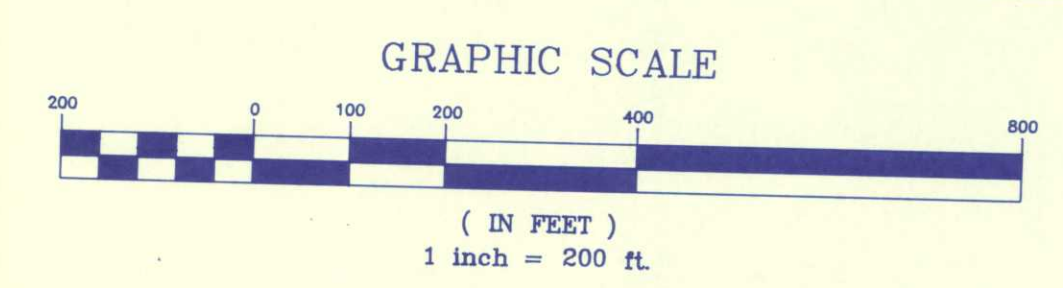
DATE APRIL 23, 1992

REGISTERED SURVEYOR, No. 4166, FLORIDA

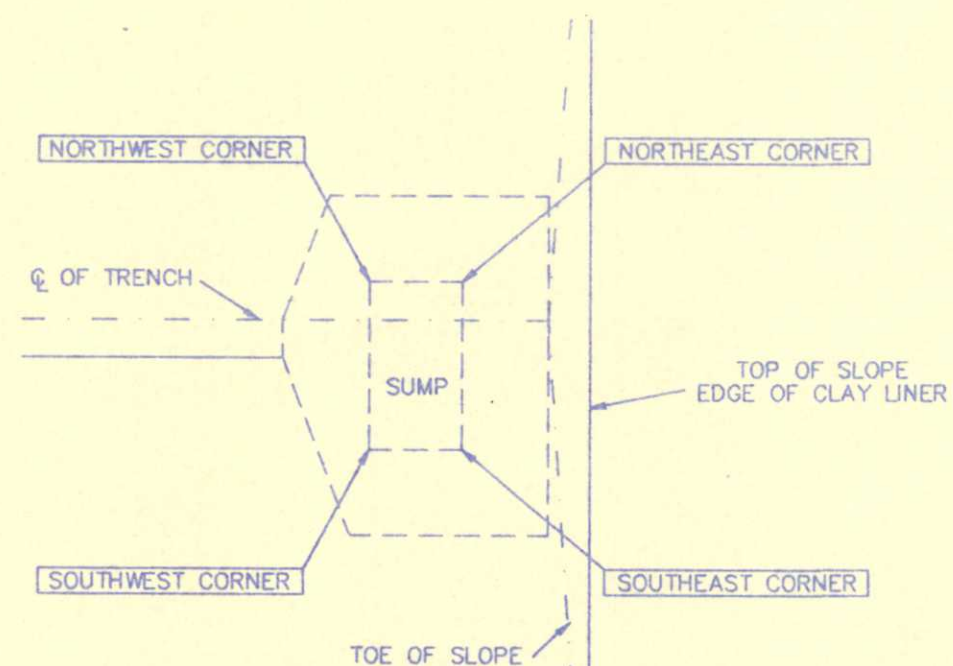
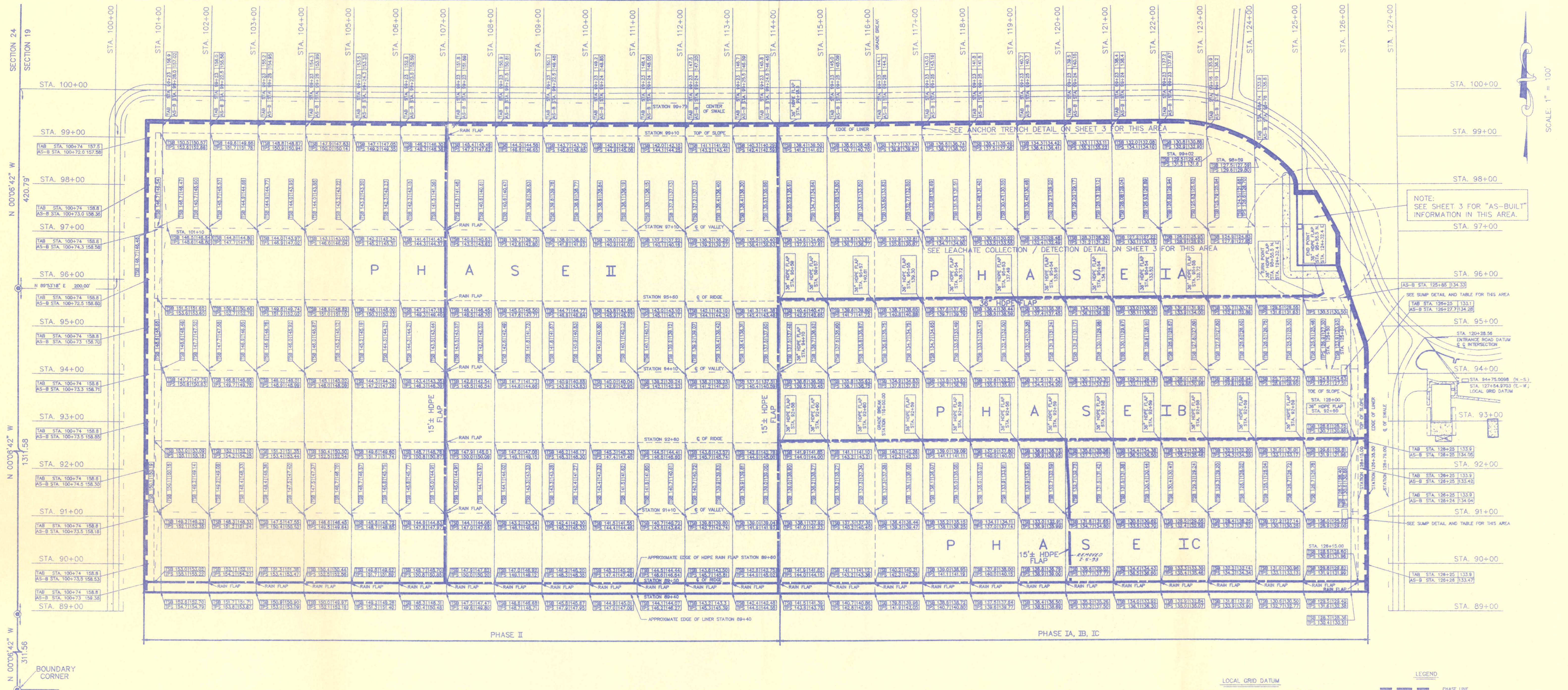
FIELD BOOK NO. 339/75-78;363/2-5  
DRAWN BY J.L.R.  
CHECKED BY R.S.C.

R - 23 - E

ORDER NO. S92-205  
FILE NO. 920-5246







SUMP DETAIL

| PHASE | CORNER    | DESIGN EL. | ASBUILT EL. |
|-------|-----------|------------|-------------|
| IA    | NORTHEAST | 121.5      | 121.42      |
| IA    | NORTHWEST | 121.5      | 121.38      |
| IA    | SOUTHEAST | 121.5      | 121.24      |
| IA    | SOUTHWEST | 121.5      | 121.37      |
| IB    | NORTHEAST | 121.4      | 121.38      |
| IB    | NORTHWEST | 121.4      | 121.34      |
| IB    | SOUTHEAST | 121.4      | 121.43      |
| IB    | SOUTHWEST | 121.4      | 121.36      |
| IC    | NORTHEAST | 122.9      | 123.04      |
| IC    | NORTHWEST | 122.9      | 122.95      |
| IC    | SOUTHEAST | 122.9      | 123.03      |
| IC    | SOUTHWEST | 122.9      | 123.05      |

SHEET 2

| DATE    | PHASE                                                      |
|---------|------------------------------------------------------------|
| 5-12-92 | IA                                                         |
| 5-13-92 | REVISED SPOT EL. OF TIPS AT STA. 123+00 E AND STA. 99+02 N |
| 6-12-92 | IB                                                         |
| 1-24-93 | ADDED PHASE IC AND PHASE II                                |
| 2-5-93  | REMOVED RAIN FLAP PHASE I-C                                |

I HEREBY CERTIFY THAT THE CLAY SUB-BASE, PROTECTIVE SAND, 36" HDPE FLAP, AND THE TOP OF CLAY BERM SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY CHAPTER 472.027 OF THE FLORIDA STATUTES.

ARTHUR A. MASTROMICOLA, JR. FLA REG SURVEYOR NO. 4166



SUNSHINE STATE SURVEYORS, INC.

SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246 (904) 642-8550

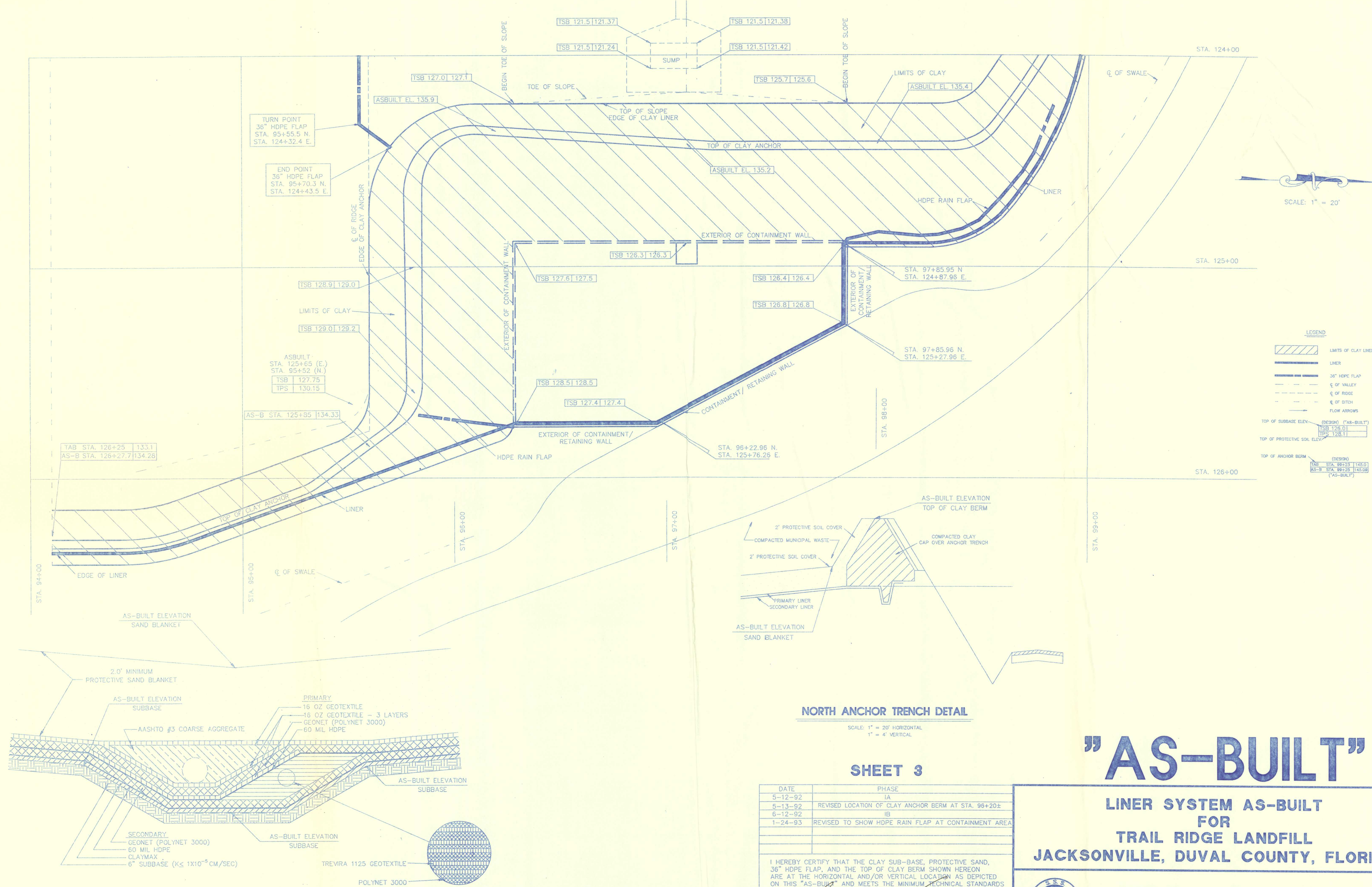
**"AS-BUILT"**

**LINER SYSTEM AS-BUILT FOR TRAIL RIDGE LANDFILL JACKSONVILLE, DUVAL COUNTY, FLORIDA**

NOTE: FOR DETAILS SEE SHEET NO. 3

| LEGEND |                                                    |
|--------|----------------------------------------------------|
| ---    | PHASE LINE                                         |
| ---    | 36" HDPE FLAP                                      |
| ---    | LINE                                               |
| ---    | OF VALLEY                                          |
| ---    | OF RIDGE                                           |
| ---    | OF DITCH                                           |
| ---    | FLOW ARROWS                                        |
| ---    | TOP OF SUBBASE ELEV. (DESIGN) ("AS-BUILT")         |
| ---    | TOP OF PROTECTIVE SOIL ELEV. (DESIGN) ("AS-BUILT") |
| ---    | TOP OF ANCHOR BERM (DESIGN) ("AS-BUILT")           |





# SHEET 3

| DATE    | PHASE                                               |
|---------|-----------------------------------------------------|
| 5-12-92 | 1A                                                  |
| 5-13-92 | REVISED LOCATION OF CLAY ANCHOR BERM AT STA. 96+20± |
| 6-12-92 | 1B                                                  |
| 1-24-93 | REVISED TO SHOW HDPE RAIN FLAP AT CONTAINMENT AREA  |

I HEREBY CERTIFY THAT THE CLAY SUB-BASE, PROTECTIVE SAND, 36" HDPE FLAP, AND THE TOP OF CLAY BERM SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY CHAPTER 472.027 OF THE FLORIDA STATUTES.

ARTHUR A. MASONICOLA FLA. REG. SURVEYOR NO. 4166

# "AS-BUILT"

**LINER SYSTEM AS-BUILT  
FOR  
TRAIL RIDGE LANDFILL  
JACKSONVILLE, DUVAL COUNTY, FLORIDA**



**SUNSHINE STATE SURVEYORS, INC.**  
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246  
(904) 642-8550



"AS-BUILT" BY SUNSHINE STATE SURVEYORS, INC.

| PHASE     | DATE    | LOCATION                                                                          |
|-----------|---------|-----------------------------------------------------------------------------------|
| I A       | 3-9-92  | STA. 95+60.00 TO STA. 97+86.00 (NORTH)<br>STA. 124+17.60 TO STA. 125+76.00 (EAST) |
| I A       | 3-14-92 | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 114+00.00 TO STA. 117+00.00 (EAST) |
| I A       | 3-18-92 | STA. 97+06.00 TO STA. 99+10.00 (NORTH)<br>STA.114+00.00 TO STA. 118+00.00 (EAST)  |
| I A       | 3-20-92 | STA. 97+05.00 TO STA. 99+10.00 (NORTH)<br>STA. 119+00.00 (EAST)                   |
| I A       | 3-20-92 | STA. 97+05.00 TO STA. 97+15.00 (NORTH)<br>STA. 13+80.00 TO STA. 14+00.00 (EAST)   |
| I A       | 3-21-92 | STA. 97+05.00 TO STA. 99+10.00 (NORTH)<br>STA. 120.00 (EAST)                      |
| I A       | 3-25-92 | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 121+00.00 TO STA. 122+00.00 (EAST) |
| I A       | 3-25-92 | STA. 96+95.00 TO STA. 25.00 (NORTH)<br>STA. 125+00.00 TO STA. 125+50.00 (EAST)    |
| I A       | 3-31-92 | STA. 95+60.00 TO STA. 99+01.68 (NORTH)<br>STA. 122+20.00 TO STA. 123+00.00 (EAST) |
| I A       | 4-1-92  | STA. 95+60.00 TO STA. 98+59.00 (NORTH)<br>STA. 123+20.00 TO STA. 124+00.00 (EAST) |
| I B       | 4-6-92  | STA. 92+60.00 TO STA. 95+45.00 (NORTH)<br>STA. 114+00.00 TO STA. 117+00.00 (EAST) |
| I B       | 4-10-92 | STA. 92+60.00 TO STA. 95+45.00 (NORTH)<br>STA. 118+00.00 TO STA. 122+00.00 (EAST) |
| I A & I B | 4-23-92 | STA. 92+60.00 TO STA. 98+00.00 (NORTH)<br>STA. 124+00.00 TO STA. 126+15.00 (EAST) |
| I C       | 5-4-92  | STA. 89+40.00 TO STA. 92+35.00 (NORTH)<br>STA. 114+00.00 TO STA. 121+00.00 (EAST) |
| I C       | 5-6-92  | STA. 89+40.00 TO STA. 92+35.00 (NORTH)<br>STA. 122+00.00 TO STA. 123+00.00 (EAST) |
| I C       | 5-8-92  | STA. 89+40.00 TO STA. 92+35.00 (NORTH)<br>STA. 124+00.00 TO STA. 125+85.00 (EAST) |
| I A       | 5-8-92  | STA. 95+53.00 TO STA. 99+31.00 (NORTH)<br>STA. 114+00.00 TO STA. 124+00.00 (EAST) |
| I A       | 5-11-92 | STA. 95+60.00 TO STA. 99+08.00 (NORTH)<br>STA. 114+00.00 TO STA. 123+00.00 (EAST) |

(CONTAINMENT AREA)

(CONTAINMENT AREA)

"AS-BUILT" BY SUNSHINE STATE SURVEYORS, INC.

| PHASE | DATE    | LOCATION                                                                          |
|-------|---------|-----------------------------------------------------------------------------------|
| I C   | 5-11-92 | STA. 89+40.00 TO STA. 92+35.00 (NORTH)<br>STA. 125+90.00 TO STA. 126+15.00 (EAST) |
| II    | 5-9-92  | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 100+90.90 TO STA. 103+00.00 (EAST) |
| II    | 5-20-92 | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 104+00.00 TO STA. 106+00.00 (EAST) |
| II    | 5-27-92 | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 109+00.00 TO STA. 110+00.00 (EAST) |
| II    | 5-28-92 | STA. 95+60.00 TO STA. 99+10.00 (NORTH)<br>STA. 111+00.00 (EAST)                   |
| II    | 6-2-92  | STA. 92+60.00 TO STA. 95+40.00 (NORTH)<br>STA. 100+85.00 TO STA. 103+00.00 (EAST) |
| I B   | 6-3-92  | STA. 92+60.00 TO STA. 95+85.5 (NORTH)<br>STA. 114+00.00 TO STA. 126+00.00 (EAST)  |
| I B   | 6-11-92 | STA. 92+60.00 TO STA. 95+60.00 (NORTH)<br>STA. 125+50.00 TO STA. 126+27.70 (EAST) |
| I B   | 6-12-92 | STA. 92+60.00 (NORTH)<br>STA. 126+13.00 TO STA. 126+25.00 (EAST)                  |
| II A  | 6-12-92 | STA. 97+06.00 TO STA. 97+14.00 (NORTH)<br>STA. 106+00.00 TO STA. 111+00.00 (EAST) |
| I B   | 6-16-92 | STA. 92+60.00 (NORTH)<br>STA. 114+00.00 TO STA. 126+10.00 (EAST)                  |
| II B  | 6-17-92 | STA. 92+60.00 (NORTH)<br>STA. 104+00.00 TO STA. 106+00.00 (EAST)                  |
| II B  | 6-19-92 | STA. 92+60.00 TO 95+35.00 (NORTH)<br>STA. 107+00.00 TO 109+00.00 (EAST)           |
| II B  | 6-13-92 | STA. 94+10.00 (NORTH)<br>STA. 101+03.00 TO 104+00.00 (EAST)                       |
| II B  | 7-9-92  | STA. 89+06.00 TO STA. 92+60.00 (NORTH)<br>STA. 126+03.00 TO STA. 126+31.00 (EAST) |
| II C  | 7-10-92 | STA. 89+40.00 TO STA. 92+55.00 (NORTH)<br>STA. 100+85.00 TO STA. 102+00 (EAST)    |
| I A   | 7-13-92 | STA. 97+85.00 TO STA. 98+60.00 (NORTH)<br>STA. 124+83.00 TO STA. 124+87.00 (EAST) |
| II C  | 7-15-92 | STA. 89+40.00 TO STA. 92+35.00 (NORTH)<br>STA. 105+00.00 TO STA. 106+00.00 (EAST) |
| II B  | 7-17-92 | STA. 92+60.00 TO STA. 94+06.00 (NORTH)<br>STA. 112+00.00 TO STA. 114+00.00 (EAST) |

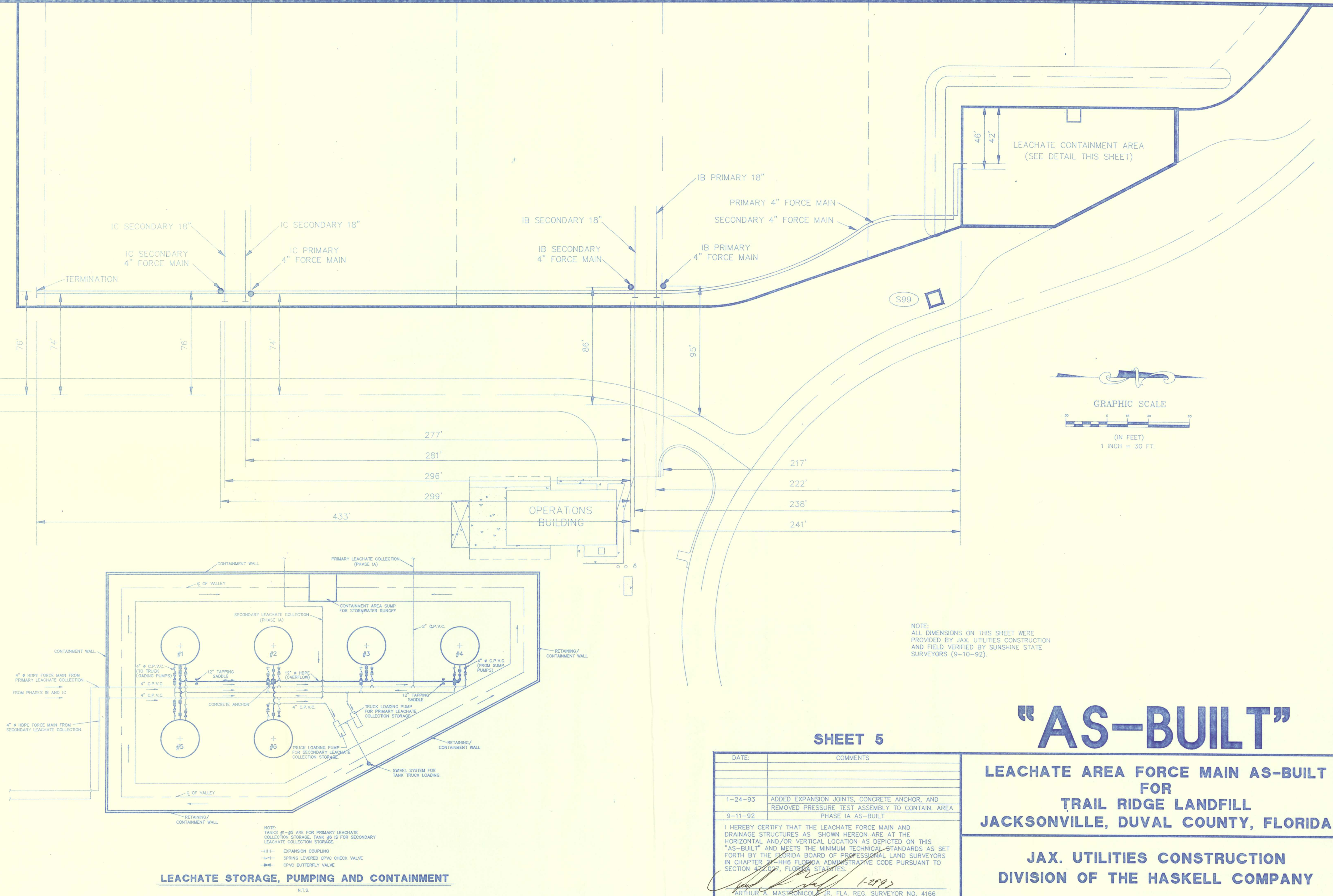
(LEACHATE TRENCH)

(CONTAINMENT AREA)

"AS-BUILT" BY SUNSHINE STATE SURVEYORS, INC.

| PHASE  | DATE     | LOCATION                                                                          |
|--------|----------|-----------------------------------------------------------------------------------|
| I C    | 7-20-92  | STA. 89+40.00 TO STA. 92+40.00 (NORTH)<br>STA. 115+00.00 TO STA. 126+27.00 (EAST) |
| II C   | 7-24-92  | STA. 89+40.00 TO STA. 92+40.00 (NORTH)<br>STA. 107+00.00 TO STA. 109+00.00 (EAST) |
| I C    | 7-27-92  | STA. 89+40.00 TO STA. 91+10.00 (NORTH)<br>STA. 115+00.00 TO STA. 126+00.00 (EAST) |
| II B   | 8-13-92  | STA. 94+06.00 TO STA. 94+10.00 (NORTH)<br>STA. 111+40.00 TO STA. 112+60.00 (EAST) |
| II C   | 8-27-92  | STA. 89+40.00 TO STA. 91+13.00 (NORTH)<br>STA. 111+20.00 TO STA. 112+00.00 (EAST) |
| II C   | 9-1-92   | STA. 89+00.00 TO STA. 91+00.00 (NORTH)<br>STA. 113+00.00 TO 114+00.00 (EAST)      |
| II C   | 9-2-92   | STA. 91+00.00 TO STA. 92+60.00 (NORTH)<br>STA. 112+00.00 TO STA. 113+80.00 (EAST) |
| II C   | 9-3-92   | STA. 91+06.00 TO STA. 92+60.00 (NORTH)<br>STA. 113+80.00 TO STA. 115+00.00 (EAST) |
| II C   | 9-15-92  | STA. 95+60.00 TO STA. 99+08.00 (NORTH)<br>STA. 99+91.00 TO STA. 107+00.00 (EAST)  |
| II C   | 10-12-92 | STA. 89+60.00 TO STA. 91+10.00 (NORTH)<br>STA. 100+13.00 TO STA. 107+00.00 (EAST) |
| II C   | 10-28-92 | STA. 95+00.00 TO STA. 99+10.00 (NORTH)<br>STA. 112+00.00 STA. 113+00.00 (EAST)    |
| II B   | 11-10-92 | STA. 94+00.00 TO STA. 96+00.00 (NORTH)<br>STA. 110+00.00 TO STA. 114+00.00 (EAST) |
| II A   | 11-18-92 | STA. 95+00.00 TO STA. 97+00.00 (NORTH)<br>STA. 110+00.00 TO STA. 114+00.00 (EAST) |
| II A   | 11-30-92 | STA. 97+00.00 TO STA. 98+00.00 (NORTH)<br>STA. 110+00.00 TO STA. 114+00.00 (EAST) |
| II ABC | 12-23-92 | STA. 89+00.00 TO STA. 98+00.00 (NORTH)<br>STA. 101+00.00 TO STA. 114+00.00 (EAST) |
| II A   | 1-8-93   | ODD FILL-IN TIE SHOTS                                                             |
| II A   | 1-19-93  | STA. 99+00.00 TO STA. 99+127.00(NORTH)<br>STA. 109+00.00 TO STA. 114+00.00 (EAST) |





SHEET 5

"AS-BUILT"

LEACHATE AREA FORCE MAIN AS-BUILT  
FOR  
TRAIL RIDGE LANDFILL  
JACKSONVILLE, DUVAL COUNTY, FLORIDA

JAX. UTILITIES CONSTRUCTION  
DIVISION OF THE HASKELL COMPANY

| DATE:                                                                                                                                                                                                                                                                                                                                                                       | COMMENTS                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 1-24-93                                                                                                                                                                                                                                                                                                                                                                     | ADDED EXPANSION JOINTS, CONCRETE ANCHOR, AND REMOVED PRESSURE TEST ASSEMBLY TO CONTAIN. AREA |
| 9-11-92                                                                                                                                                                                                                                                                                                                                                                     | PHASE 1A AS-BUILT                                                                            |
| I HEREBY CERTIFY THAT THE LEACHATE FORCE MAIN AND DRAINAGE STRUCTURES AS SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21-HH6 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES. |                                                                                              |
| ARTHUR A. MASTRONICOLA, JR. FLA. REG. SURVEYOR NO. 4166                                                                                                                                                                                                                                                                                                                     |                                                                                              |







AS-BUILT STORM DRAINAGE DATA  
PHASE I & PHASE II

SEE SHEET 8, 9 & 10

| STRUCTURE NO. | STRUCTURE DESCRIPTION                                | TOP ELEVATION |         | SLOT ELEVATION |         | INVERT ELEVATION                 |                                         | STATION                        |                                |
|---------------|------------------------------------------------------|---------------|---------|----------------|---------|----------------------------------|-----------------------------------------|--------------------------------|--------------------------------|
|               |                                                      | DESIGN        | ASBUILT | DESIGN         | ASBUILT | DESIGN                           | ASBUILT                                 | DESIGN                         | ASBUILT                        |
| S 4           | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" W)                   | *                                       | *                              | *                              |
| S 5           | MOD. FDOT TYPE 'E' INLET (DETAIL A)                  | 146.50        | 146.49  | 143.76 (S)     | 143.70  | 141.76 (18" E)<br>141.30 (42" W) | 141.18 (42" CMP)                        | 93+30.00 (N)<br>100+21.00 (E)  | 93+29.30 (N)<br>100+19.15 (E)  |
| S 6           | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 141.30 (42" E)                   | 141.42 (42" CMP)                        | 93+30.00 (N)<br>99+64.50 (E)   | 93+31.11 (N)<br>99+67.60 (E)   |
| S 7           | FDOT TYPE 'E' INLET                                  | 145.09        | 145.09  | 142.35 (S)     | 142.32  | 139.85 (24" N)                   | 139.84 (24" CMP)                        | 99+27.82 (N)<br>100+21.00 (E)  | 99+29.09 (N)<br>100+21.45 (E)  |
| S 8           | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 139.85 (24" S)                   | 139.85 (24" CMP)                        | 100+31.00 (N)<br>100+21.00 (E) | 100+18.28 (N)<br>100+21.21 (E) |
| S 9           | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" N)                   | *                                       | *                              | *                              |
| S 10          | MOD. FDOT TYPE 'E' INLET (DETAIL A)                  | 138.91        | 138.90  | 136.17 (W)     | 136.15  | 134.17 (18" S)<br>134.17 (42" N) | *<br>134.20 (42" CMP)                   | 99+79.00 (N)<br>106+93.00 (E)  | 99+79.08 (N)<br>106+93.11 (E)  |
| S 11          | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 134.17 (42" S)                   | 134.05 (42" CMP)                        | 100+31.00 (N)<br>106+93.00 (E) | 100+31.65 (N)<br>106+93.06 (E) |
| S 12          | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" N)                   | *                                       | *                              | *                              |
| S 13          | MOD. FDOT TYPE 'E' INLET (DETAIL A)                  | 134.91        | 134.89  | 132.17 (W)     | 132.14  | 130.17 (18" S)<br>130.17 (42" N) | *<br>130.21 (42" CMP)                   | 99+79.00 (N)<br>111+63.50 (E)  | 99+79.30 (N)<br>111+62.70 (E)  |
| S 14          | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 130.17 (42" S)                   | 130.19 (42" CMP)                        | 100+31.00 (N)<br>111+63.50 (E) | 100+32.00 (N)<br>111+63.10 (E) |
| S 15          | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" N)                   | 146.33 (30" ADS)<br>(TEMP. END OF PIPE) | *                              | *                              |
| S 16          | MOD. FDOT TYPE 'E' INLET (DETAIL A)                  | 131.81        | 131.80  | 129.07 (W)     | 129.07  | 127.07 (18" S)<br>127.07 (42" N) | *<br>127.06 (42" CMP)                   | 99+79.00 (N)<br>115+28.50 (E)  | 99+79.40 (N)<br>115+28.00 (E)  |
| S 17          | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 127.07 (42" S)                   | 127.28 (42" CMP)                        | 100+31.00 (N)<br>115+28.50 (E) | 100+31.80 (N)<br>115+28.70 (E) |
| S 18          | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" N)                   | 141.28 (30" ADS)<br>(TEMP. END OF PIPE) | *                              | *                              |
| S 19          | MOD. FDOT TYPE 'E' INLET (DETAIL A)                  | 126.23        | 126.05  | 123.49 (W)     | 123.35  | 121.49 (18" S)<br>121.49 (42" N) | *<br>121.35 (42" CMP)                   | 99+79.00 (N)<br>120+32.00 (E)  | 99+78.80 (N)<br>120+31.50 (E)  |
| S 20          | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 121.49 (42" S)                   | 121.39 (42" CMP)                        | 100+31.00 (N)<br>120+32.00 (E) | 100+31.30 (N)<br>120+32.30 (E) |
| S 21          | FDOT TYPE 'E' INLET                                  | 122.65        | 122.71  | 119.91 (NW)    | 119.98  | 115.45 (24" NE)                  | 115.80 (24" CMP)                        | 98+79.70 (N)<br>124+85.30 (E)  | 98+79.70 (N)<br>124+85.51 (E)  |
| S 22          | CONST. MITERED END INTO CONC. PAVING                 | -             | -       | -              | -       | 115.45 (24" SW)                  | 115.47 (24" CMP)                        | 99+21.80 (N)<br>125+23.60 (E)  | 99+22.82 (N)<br>125+24.00 (E)  |
| S 23          | EXTEND PIPE THRU BERM                                | -             | -       | -              | -       | 265.00 (18" E)                   | *                                       | *                              | *                              |
| S 24          | MOD. FDOT TYPE 'E' INLET (DETAIL B)                  | 121.50        | 121.53  | 118.76 (S)     | 118.76  | 116.76 (18" W)<br>116.76 (42" E) | *<br>116.72 (42" RCP)                   | 88+80.00 (N)<br>126+79.00 (E)  | 88+79.78 (N)<br>126+79.64 (E)  |
| S 25          | FDOT TYPE 'E' INLET W/7" TYPE J BOTTOM (ALTERNATE A) | 121.50        | 121.37  | 117.75 (S)     | 118.66  | 116.76 (42" W)<br>113.76 (42" N) | *<br>113.42 (42" RCP)                   | 88+80.00 (N)<br>127+32.50 (E)  | 88+82.34 (N)<br>127+31.01 (E)  |
| S 73          | CONCRETE ENDWALL DOUBLE 48" R.C.P.                   | -             | -       | -              | -       | 118.00 (DBL 48" E)               | 117.57 (N&S)<br>(48" RCP)               | 100+28.75 (N)<br>123+23.00 (E) | 100+29.40 (N)<br>123+22.80 (E) |
| S 74          | CONCRETE ENDWALL DOUBLE 48" R.C.P.                   | -             | -       | -              | -       | 117.16 (DBL 48" W)               | 117.03 (48" RCP)<br>117.05 (48" RCP)    | 100+08.40 (N)<br>123+90.00 (E) | 100+08.90 (N)<br>123+90.00 (E) |
| S 75          | INLET STRUCTURE                                      | 115.70        | 116.58  | 110.70(NW)     | 111.31  | 104.13 (60" S)                   | 104.33 (60" RCP)                        | 95+65.00 (N)<br>127+24.20 (E)  | 95+64.03 (N)<br>127+21.71(E)   |
| S 77          | CONCRETE ENDWALL DOUBLE 48" C.M.P.                   | -             | -       | -              | -       | 106.40 (DBL 48" E)               | 106.58 (48" RCP)<br>106.84 (48" RCP)    | 106+07.75 (N)<br>123+36.60 (E) | 106+08.70 (N)<br>123+37.90 (E) |
| S 78          | CONCRETE ENDWALL DOUBLE 48" C.M.P.                   | -             | -       | -              | -       | 105.48 (DBL 48" W)               | 105.55 (48" RCP)<br>105.61 (48" RCP)    | 106+13.60 (N)<br>124+00.35 (E) | 106+14.10 (N)<br>124+00.40 (E) |
| S 83          | FDOT TYPE 'E' INLET                                  | 121.50        | 121.46  | 118.76 (S)     | 118.63  | 116.76 (24" E)                   | 116.77 (24" RCP)                        | 91+00.00 (N)<br>126+79.00 (E)  | 90+99.83 (N)<br>126+78.16 (E)  |
| S 84          | FDOT TYPE 'E' INLET W/7" TYPE J BOTTOM               | 121.50        | 121.48  | 117.75 (S)     | 118.69  | 116.76 (24" W)<br>111.56 (42" S) | 116.74 (24" RCP)<br>111.40 (42" RCP)    | 91+00.00 (N)<br>127+32.50 (E)  | 91+04.04 (N)<br>127+38.68 (E)  |

AS-BUILT SPREADER PIPE DATA

SEE SHEET 9

| 8" X 2" SADDLE |             | STATION      | DEPTH               |
|----------------|-------------|--------------|---------------------|
| SP-1           | 91+26.21(N) | 129+62.18(E) | (2.8' BELOW GROUND) |
| SP-2           | 90+27.93(N) | 129+96.07(E) | (2.7' BELOW GROUND) |
| SP-3           | 89+31.29(N) | 130+07.89(E) | (2.6' BELOW GROUND) |
| SP-4           | 88+57.76(N) | 130+75.70(E) | (3.2' BELOW GROUND) |
| SP-5           | 88+45.26(N) | 131+70.76(E) | (2.8' BELOW GROUND) |
| SP-6           | 88+05.52(N) | 132+62.81(E) | (3.0' BELOW GROUND) |
| SP-7           | 87+29.09(N) | 133+36.52(E) | (2.5' BELOW GROUND) |
| SP-8           | 85+47.29(N) | 137+59.12(E) | (2.0' BELOW GROUND) |
| SP-9           | 84+52.99(N) | 137+73.97(E) | (2.7' BELOW GROUND) |
| SP-10          | 83+44.94(N) | 136+98.14(E) | (3.4' BELOW GROUND) |
| SP-11          | 82+57.76(N) | 136+55.08(E) | (3.5' BELOW GROUND) |
| SP-12          | 82+23.42(N) | 136+25.75(E) | (3.8' BELOW GROUND) |
| SP-13          | 82+24.12(N) | 135+23.08(E) | (2.9' BELOW GROUND) |
| SP-14          | 82+41.02(N) | 134+13.30(E) | (3.5' BELOW GROUND) |
| SP-15          | 82+55.77(N) | 133+23.12(E) | (3.0' BELOW GROUND) |
| SP-16          | 82+70.27(N) | 132+37.86(E) | (3.1' BELOW GROUND) |
| SP-17          | 82+56.89(N) | 131+31.74(E) | (2.5' BELOW GROUND) |
| SP-18          | 82+19.35(N) | 130+39.40(E) | (2.5' BELOW GROUND) |
| SP-19          | 81+78.85(N) | 129+54.12(E) | (2.8' BELOW GROUND) |
| SP-20          | 81+79.04(N) | 128+51.65(E) | (3.0' BELOW GROUND) |

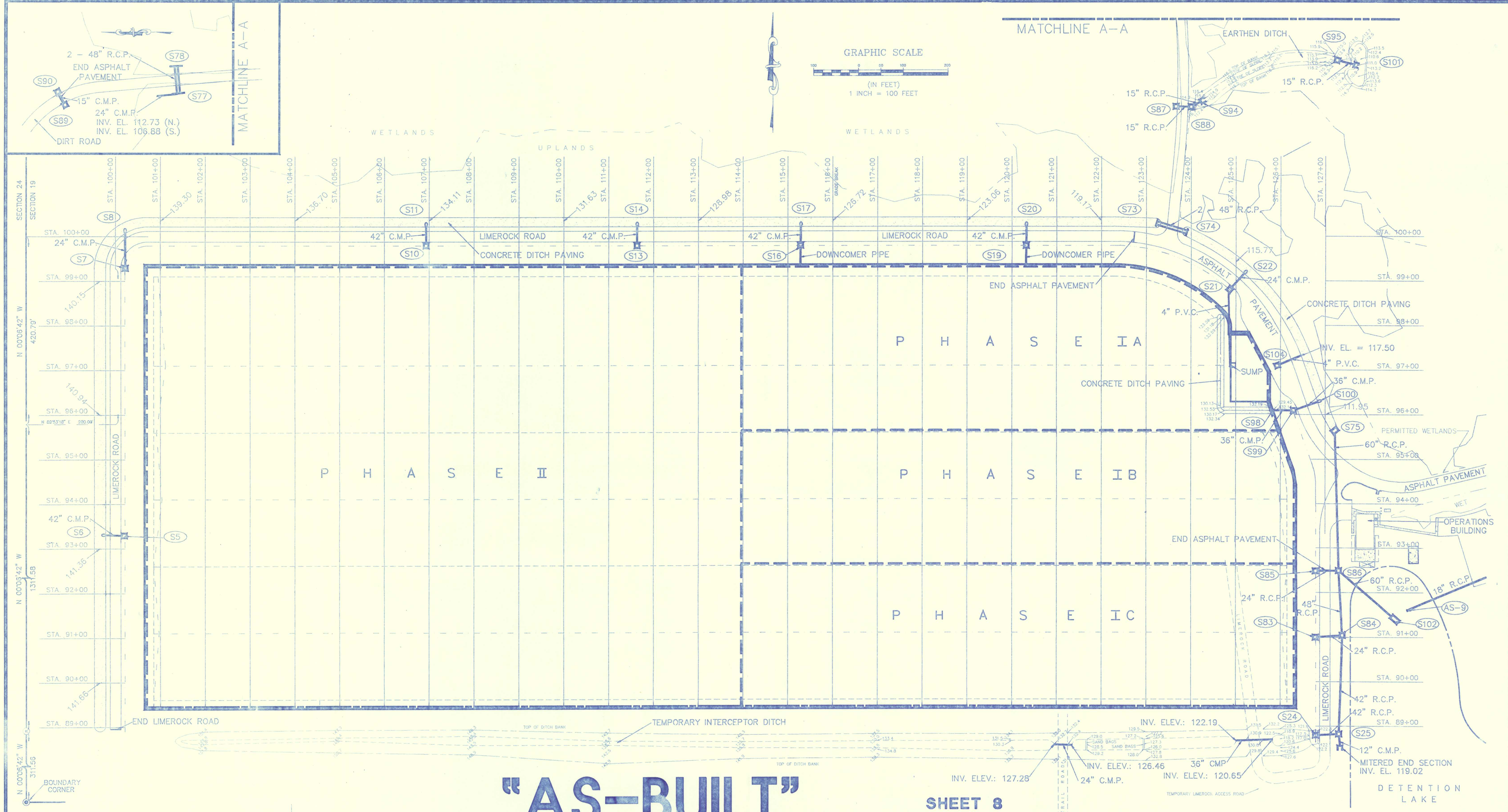
AS-BUILT STORM DRAINAGE DATA

ANCILLARY AREA

SEE SHEET 11 & 12

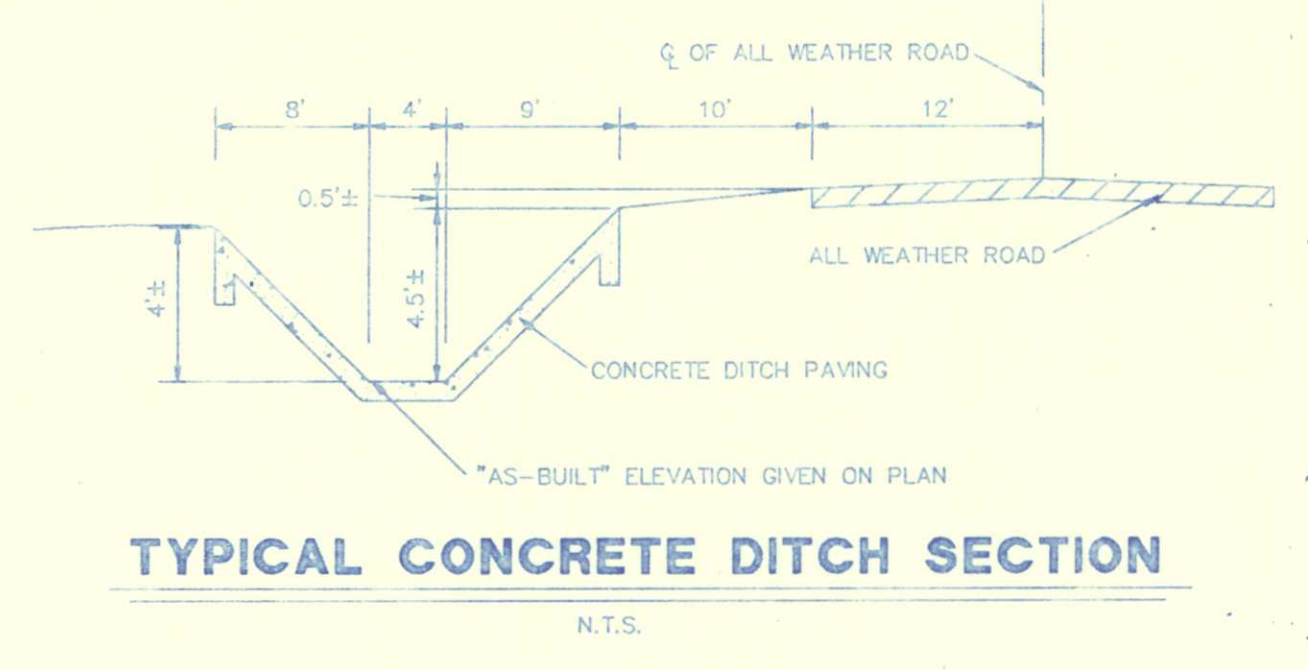
| STRUCTURE NO. | STRUCTURE DESCRIPTION | TOP ELEVATION |                    | SLOT ELEVATION           |                          | INVERT ELEVATION         |                                      | STATION |                               |
|---------------|-----------------------|---------------|--------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|---------|-------------------------------|
|               |                       | DESIGN        | ASBUILT            | DESIGN                   | ASBUILT                  | DESIGN                   | ASBUILT                              | DESIGN  | ASBUILT                       |
| AS-1          | E DITCH BOTTOM        | 99.50         | 99.55              | 98.50 (W)                | 98.53                    | 95.50                    | 95.51 (36" RCP)                      | -       | 97+57.76 (N)<br>143+26.88 (E) |
| AS-2          | U TYPE ENDWALL        | -             | -                  | -                        | -                        | 95.40                    | 95.64 (36" RCP)                      | -       | 98+32.03 (N)<br>143+38.39 (E) |
| AS-3          | E DITCH BOTTOM INLET  | 100.50        | 100.55             | 100.00 (E)<br>100.00 (W) | 100.06 (E)<br>100.00 (W) | 97.50 (E)<br>98.00 (W)   | 97.47 (18" RCP)<br>97.93 (18" RCP)   | -       | 97+52.26 (N)<br>138+15.59 (E) |
| AS-4          | E DITCH BOTTOM INLET  | 100.50        | 99.97              | 100.00 (E)<br>100.00 (W) | 99.50 (E)<br>99.49 (W)   | 96.60 (E)<br>97.10 (W)   | 96.64 (24" RCP)<br>97.11 (18" RCP)   | -       | 97+96.78 (N)<br>140+32.55 (E) |
| AS-5          | U TYPE ENDWALL        | -             | -                  | -                        | -                        | 95.00                    | 94.95 (24" RCP)                      | -       | 99+32.91 (N)<br>142+68.04 (E) |
| AS-6          | C DITCH BOTTOM INLET  | 111.00        | 111.07             | 110.00 (W)               | 110.05 (W)               | 106.75                   | 106.86 (15" RCP)                     | -       | 94+78.16 (N)<br>131+51.26 (E) |
| AS-7          | C INLET               | 112.50        | 112.47             | -                        | -                        | 106.55 (N)<br>106.30 (S) | 106.59 (15" RCP)<br>106.53 (18" RCP) | -       | 94+12.70 (N)<br>131+71.35 (E) |
| AS-8          | C INLET               | 113.75        | 113.99             | -                        | -                        | 106.05 (N)<br>106.05 (W) | 106.54 (18" RCP)<br>106.24 (18" RCP) | -       | 93+07.04 (N)<br>132+46.88 (E) |
| AS-9          | U TYPE ENDWALL        | -             | -                  | -                        | -                        | 103.00                   | 103.34 (18" RCP)                     | -       | 91+60.84 (N)<br>128+83.48 (E) |
| AS-10         | C INLET               | 107.20        | 107.25             | 106.70 (W)               | 106.80 (W)               | 104.75                   | 104.58 (15" RCP)                     | -       | 95+47.34 (N)<br>133+09.26 (E) |
| AS-11         | U TYPE ENDWALL        | -             | -                  | -                        | -                        | 104.55                   | 104.62 (15" RCP)                     | -       | 95+79.51 (N)<br>133+82.24 (E) |
| AS-12         | STRAIGHT ENDWALL      | -             | -                  | -                        | -                        | 94.10                    | -                                    | -       | 97+47.30 (N)<br>144+18.88 (E) |
| AS-13         | STRAIGHT ENDWALL      | -             | -                  | -                        | -                        | 94.00                    | -                                    | -       | 97+99.11 (N)<br>144+27.33 (E) |
| AS-14         | C INLET               | 102.50        | 102.52             | 101.50                   | 101.54                   | 100.40                   | 100.41 (18" RCP)                     | -       | 97+17.23 (N)<br>136+52.18 (E) |
| AS-15         | U TYPE ENDWALL        | -             | -                  | -                        | -                        | 100.25                   | 100.09 (36" RCP)                     | -       | 96+07.73 (N)<br>136+82.06 (E) |
| AS-16         | CURB INLET            | 102.75        | GRATE NOT IN PLACE | -                        | -                        | 97.75 (W)<br>97.75 (E)   | 98.05 (36" RCP)<br>98.03 (36" RCP)   | -       | 96+36.08 (N)<br>137+95.70 (E) |
| AS-17         | E DITCH BOTTOM INLET  | 100.50        | 100.55             | 100.00 (E)<br>100.00 (W) | 100.06 (E)<br>100.00 (W) | 97.50 (E)<br>98.00 (W)   | 97.47 (18" RCP)<br>97.93 (18" RCP)   | -       | 97+52.26 (N)<br>138+15.59 (E) |





# "AS-BUILT"

SHEET 8



NOTE:  
SEE SHEET 7 FOR INVERTS, STATIONS,  
AND OTHER AS-BUILT INFORMATION FOR  
THE STORMWATER DRAINAGE STRUCTURES.

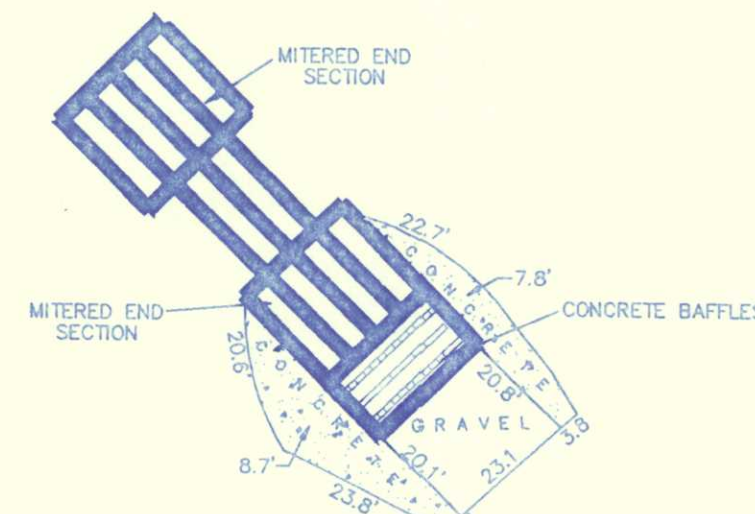
- LEGEND**
- 144.65 "AS-BUILT" SPOT ELEVATION
  - PHASE LINE
  - EDGE OF LINER
  - C OF VALLEY
  - C OF RIDGE
  - C OF DITCH
  - "AS-BUILT" STORM STRUCTURE WITH PIPES
  - "AS-BUILT" MITERED END SECTION WITH STORM PIPES
  - STRUCTURE NUMBER

| DATE:                                                                                                                                                                                                                                                                                                                                                                                                                          | COMMENTS                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 1-12-93                                                                                                                                                                                                                                                                                                                                                                                                                        | RESHOT N.W. CONCRETE DITCH PAVING ELEVATIONS<br>DUE TO CONCRETE DITCH REPLACEMENT |
| 9-11-92                                                                                                                                                                                                                                                                                                                                                                                                                        | PHASE IA AS-BUILT                                                                 |
| I HEREBY CERTIFY THAT THE CONCRETE DITCH PAVING, EARTHEN DITCH,<br>DETENTION POND, AND DRAINAGE STRUCTURES AS SHOWN HEREON ARE<br>AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS<br>"AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET<br>FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS<br>IN CHAPTER 47-H66 FLORIDA ADMINISTRATIVE CODE PURSUANT TO<br>SECTION 47.027, FLORIDA STATUTES. |                                                                                   |
| ARTHUR A. MASIRONICOLA JR. FLA. REG. SURVEYOR NO. 4166                                                                                                                                                                                                                                                                                                                                                                         |                                                                                   |

**DRAINAGE STRUCTURE AS-BUILT  
PHASE I AND PHASE II  
FOR TRAIL RIDGE LANDFILL  
JACKSONVILLE, DUVAL COUNTY, FLORIDA**

**SUNSHINE STATE SURVEYORS, INC.**  
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246  
(904) 642-8550





# "AS-BUILT"

**DETENTION LAKE AS-BUILT  
FOR  
TRAIL RIDGE LANDFILL  
JACKSONVILLE, DUVAL COUNTY, FLORIDA**



# SUNSHINE STATE SURVEYORS, INC.

SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246  
(904) 642-8550

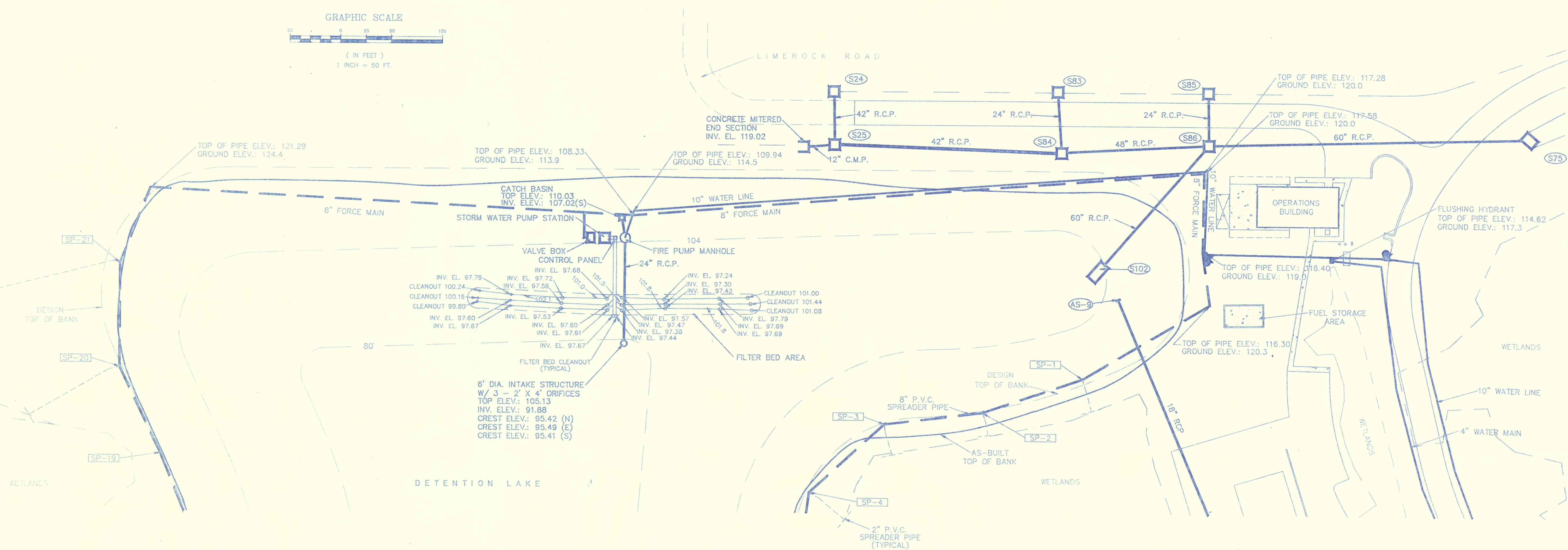
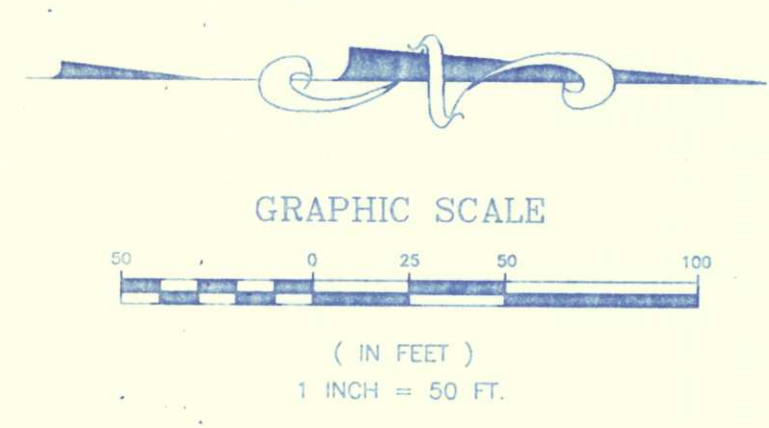
| DATE:    | COMMENTS                                                                         |
|----------|----------------------------------------------------------------------------------|
| 1-26-93  | REVISED TO ADD TIRE STORAGE AREA, BYPASS ROAD AND OPERATIONS BUILDING AS-BUILTS. |
| 12-12-92 | REVISE AS-BUILT TOPO ALONG EAST END OF POND                                      |
| 11-24-92 | DITCH PAVING AS-BUILT                                                            |
| 9-11-92  | PHASE IA AS-BUILT                                                                |

WE HEREBY CERTIFY THAT THE DETENTION POND, DISPERSION POND, AND DRAINAGE STRUCTURES AS SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 22, F.A.C. FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 471.022, FLORIDA STATUTES.

ARTHUR A. MASTRONICOLA JR., FLA. REG. SURVEYOR NO. 4166

- 
  
 150.0  
 — 150 —  
 —————  
 (S93)  
 —————  
 — [ ] —  
 —————  
 (SP-13)  
 —————  
 "AS-BUILT" SPOT ELEVATION  
 DESIGN CONTOUR  
 "AS-BUILT" TOP OF BANK  
 STRUCTURE NUMBER  
 "AS-BUILT" STORM INLET WITH PIPES  
 "AS-BUILT" STORM CULVERT  
 SPREADER PIPE NUMBER  
 "AS-BUILT" 8" P.V.C. SPREADER PIPE





AS-BUILT TABLE

| STRUCTURE TYPE           | DESIGN | AS-BUILT   |
|--------------------------|--------|------------|
| STORM WATER PUMP STATION |        |            |
| TOP EL.                  | 111.0  | 111.52     |
| BOTTOM EL.               | 92.40  | 92.17      |
| INV EL. 12" P.V.C. (W.)  | 97.32  | 97.16 (W.) |
| INV EL. 12" P.V.C. (E.)  | 97.32  | 97.37 (E.) |

- LEGEND
- 124.0 "AS-BUILT" SPOT ELEVATION
  - 150--- DESIGN CONTOUR
  - "AS-BUILT" TOP OF BANK
  - (S93) STRUCTURE NUMBER
  - "AS-BUILT" STORM INLET WITH PIPES
  - "AS-BUILT" STORM CULVERT
  - (SP-13) SPREADER PIPE NUMBER
  - "AS-BUILT" 8" P.V.C. SPREADER PIPE

NOTE:  
SEE SHEET 7 FOR INVERTS, STATIONS,  
AND OTHER AS-BUILT INFORMATION FOR  
THE STORMWATER DRAINAGE STRUCTURES,  
AND THE 8" P.V.C. SPREADER PIPE.

SHEET 10

| DATE:   | COMMENTS                                     |
|---------|----------------------------------------------|
| 1-28-93 | REVISED TO SHOW OPERATIONS BUILDING AS-BUILT |
| 9-11-92 | PHASE IIA AS-BUILT                           |

I HEREBY CERTIFY THAT THE FILTER BED, PUMP STATION, AND DRAINAGE STRUCTURES AS SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEET THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21-146 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

ARTHUR A. MASTRONICOLA JR. FLA. REG. SURVEYOR NO. 4166

# "AS-BUILT"

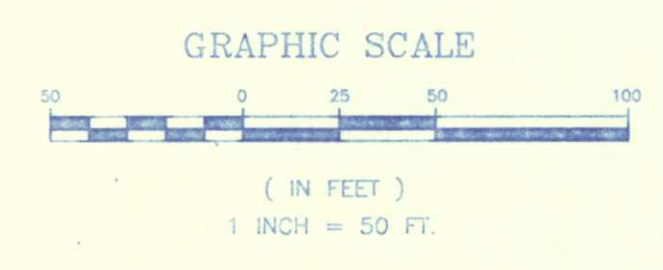
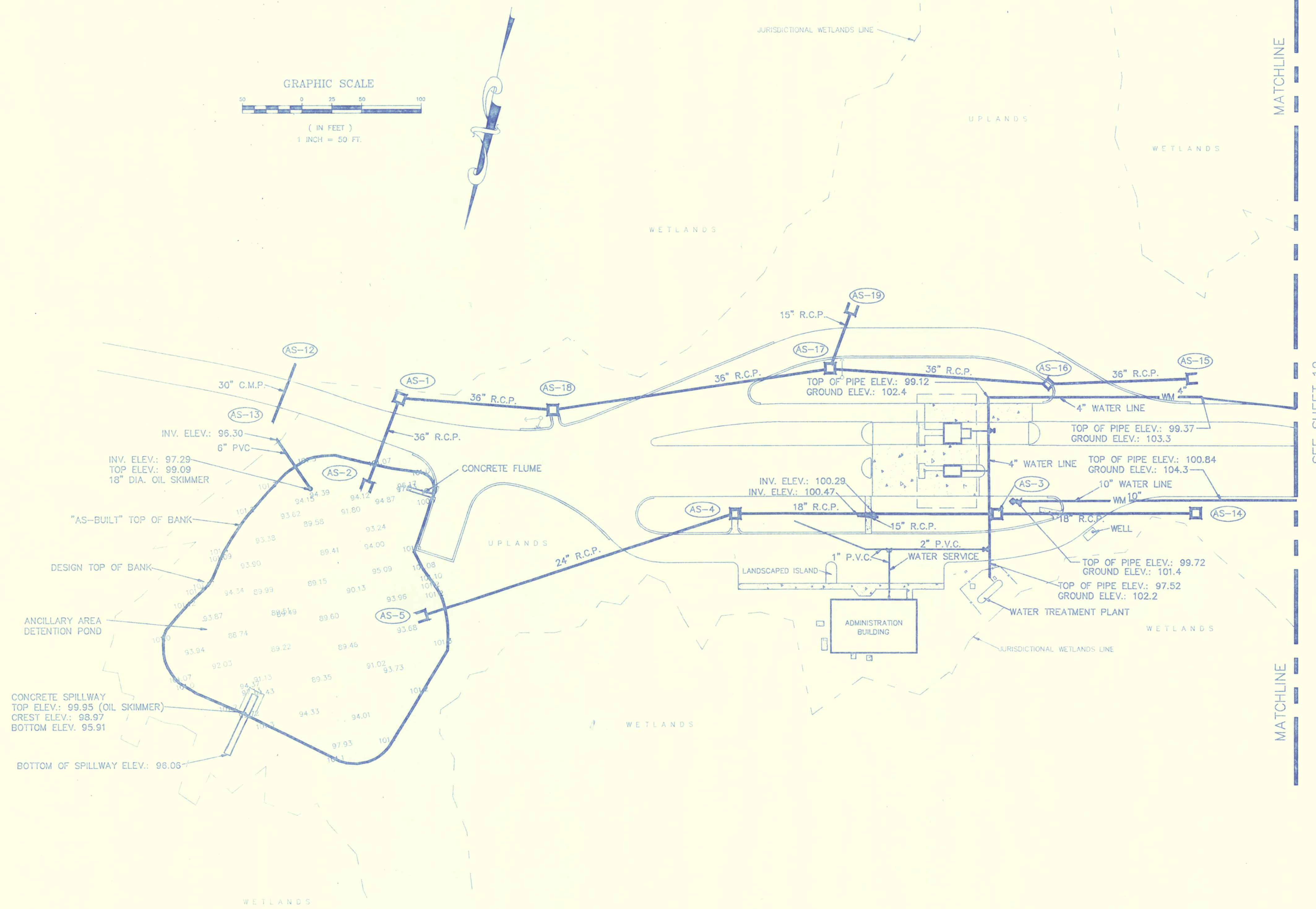
**FILTER BED AREA DETAIL  
FOR  
TRAIL RIDGE LANDFILL  
JACKSONVILLE, DUVAL COUNTY, FLORIDA**

**SUNSHINE STATE SURVEYORS, INC.**

SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246

(904) 642-8550





- LEGEND
- (S93) STRUCTURE NUMBER
  - AS-BUILT STORM INLET WITH PIPES
  - AS-BUILT STORM CULVERT
  - AS-BUILT FIRE HYDRANT WITH GATE VALVE
  - AS-BUILT MITERED END SECTION WITH STORM PIPE
  - WM 10" AS-BUILT 10" WATER MAIN
  - FM 8" AS-BUILT 8" FORCE MAIN

NOTE:  
SEE SHEET 7 FOR INVERTS, STATIONS,  
AND OTHER AS-BUILT INFORMATION FOR  
THE STORMWATER DRAINAGE STRUCTURES.

SHEET 11

| DATE:    | COMMENTS                                                                  |
|----------|---------------------------------------------------------------------------|
| 1-24-93  | REVISED TO SHOW BYPASS ROAD AND TO SHOW ADMINISTRATION BUILDING AS-BUILT. |
| 12-14-92 | REVISED TO SHOW NEW AS-BUILT TOPO OF POND                                 |
| 10-30-92 | REVISED TO SHOW AS-15 THROUGH AS-19                                       |
| 9-11-92  | PHASE IA AS-BUILT                                                         |

I HEREBY CERTIFY THAT THE ANCILLARY POND, DRAINAGE STRUCTURES, AND WATER LINES AS SHOWN HEREON ARE AT THE HORIZONTAL AND/OR VERTICAL LOCATION AS DEPICTED ON THIS "AS-BUILT" AND MEET THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 21, 466 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.007, FLORIDA STATUTES.

ARTHUR A. MASTRONICOLA JR., FLA. REG. SURVEYOR NO. 4166

# "AS-BUILT"

**ANCILLARY FACILITIES FORCE MAIN, WATER MAIN, AND DRAINAGE STRUCTURE AS-BUILT FOR TRAIL RIDGE LANDFILL JACKSONVILLE, DUVAL COUNTY, FLORIDA**



**SUNSHINE STATE SURVEYORS, INC.**  
SURVEYORS & LAND PLANNERS 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32246  
(904) 642-8550









**SUNSHINE STATE  
SURVEYORS, INC.**

ENGINEERS, SURVEYORS & LAND PLANNERS  
3131 ST. JOHNS BLUFF RD. SOUTH,  
JACKSONVILLE, FLORIDA 32216

SCALE:  
1" = 50'  
WORK ORDER NO.  
592-61  
DRAWN BY:  
J.L.R.  
CHECKED BY:  
R.S.C.

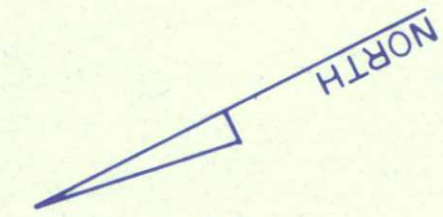
**STORM DRAINAGE**  
(STA. 10+00 - STA. 22+00)  
**TRAIL RIDGE LANDFILL**  
(PLAN A)

**AS-BUILT**

SHEET

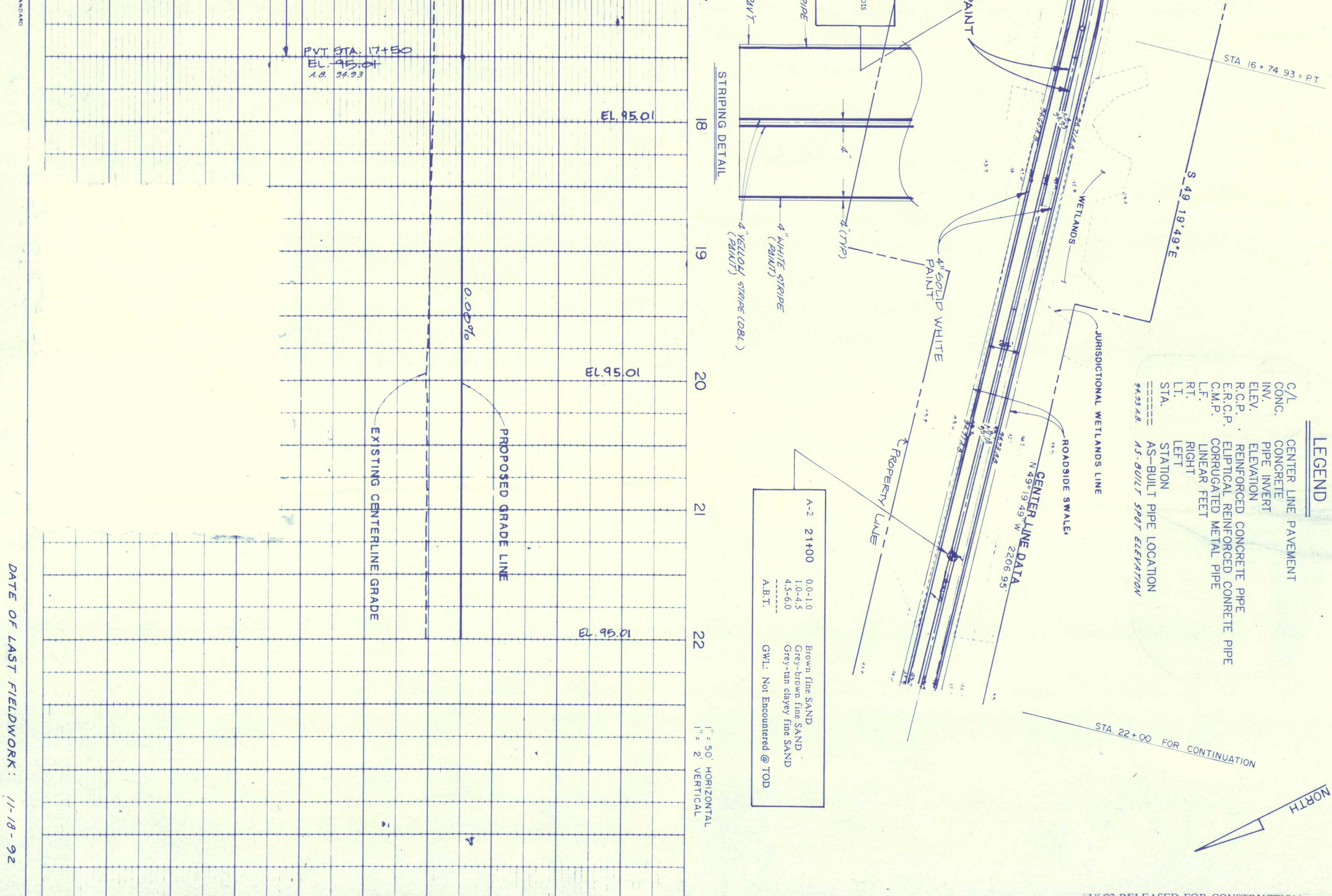
13

1/6/92 RELEASED FOR CONSTRUCTION



STA. 22+00 FOR CONTINUATION

- LEGEND**
- C/L CENTER LINE
  - CONC. CONCRETE
  - INV. PIPE INVERT
  - ELEV. ELEVATION
  - R.C.P. REINFORCED CONCRETE PIPE
  - E.R.C.P. ELLIPTICAL REINFORCED CONCRETE PIPE
  - C.M.P. CORRUGATED METAL PIPE
  - L.F. LINEAR FEET
  - RT. RIGHT
  - LT. LEFT
  - STA. STATION
  - AS-BUILT PIPE LOCATION
  - AS-BUILT SPOT ELEVATION



A-2 21+00 0.0-1.0 Brown fine SAND  
1.0-4.5 Grey-brown fine SAND  
4.5-6.0 Grey-tan clayey fine SAND  
A.B.T. GWL: Not Encountered @ TOD

1" = 50' HORIZONTAL  
1" = 2' VERTICAL

DATE OF LAST FIELDWORK: 11-18-92  
FIELD BOOK 336 / 30-34  
386 / 31-38  
FILE No. 92D-5190



PROPERTY LINE

S 49° 19' 49" E 2921.82'

STA. 30+00

UPLANDS

JURISDICTIONAL WETLANDS LINE

STA. 35+00

STA. 36+00 FOR CONTINUATION

CENTER LINE DATA  
N 49° 19' 49" W 2206.95'

ROADSIDE SWALE

4" SOLID YELLOW PAINT

4" SOLID WHITE PAINT

A-3 26+00 0.0-1.0 Brown fine SAND  
1.0-3.5 Grey-brown fine SAND with roots  
3.5-6.0 Grey-brown-orange clayey fine SAND  
A.B.T. G.W.L. Not Encountered @ TOD

A-4 31+00 0.0-1.0 Brown fine SAND with some roots  
1.0-4.0 Grey-brown fine SAND with some roots  
4.0-6.0 Grey-brown clayey fine SAND  
A.B.T. G.W.L. Not Encountered @ TOD

LEGEND  
C/L CENTER LINE PAVEMENT  
CONC. CONCRETE  
INV. PIPE INVERT  
ELEV. ELEVATION  
R.C.P. REINFORCED CONCRETE PIPE  
E.R.C.P. ELLIPTICAL REINFORCED CONCRETE PIPE  
C.M.P. CORRUGATED METAL PIPE  
L.F. LINEAR FEET  
RT. RIGHT  
LT. LEFT  
STA. STATION  
AS-BUILT PIPE LOCATION  
AS-BUILT SPOT ELEVATION

1" = 50' HORIZONTAL  
1" = 2' VERTICAL

26

27

28

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30

31

32

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34

35

36

PVT STA. 26+50  
EL. 94.71  
A.B. 94.80

PVC STA. 28+50  
EL. 94.31  
A.B. 94.33

PVI STA. 30+00  
EL. 94.01  
A.B. 94.23

PVT STA. 31+50  
EL. 94.01  
A.B. 94.11

AS BUILT

INFORMATION PROVIDED BY:

DATE: MAY 4, 1992 # NOV. 18, 1992  
NAME: SUNSHINE STATE SURVEYORS, INC.  
ADDRESS: 3131 ST. JOHNS BLUFF RD., SO.  
JACKSONVILLE, FLORIDA 32216  
PHONE #: 904 - 642 - 8550

I HEREBY CERTIFY THAT THE:  
1. DRAINAGE STRUCTURES  
2. AS-BUILT SPOT ELEVATIONS

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON  
THESE "AS-BUILT" DRAWINGS AND MEET THE MINIMAL TECHNICAL  
STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS  
PURSUANT TO SECTION 472.027 FLORIDA STATUTES AND THAT THERE  
ARE NOT ANY ENCROACHMENTS WITHIN THE EASEMENTS OR RIGHT-  
OF-WAY.

SIGNATURE  
NAME: ARTHUR A. MATTHEWS, JR.  
FLORIDA REG. LAND SURVEYOR NO. 4166

PLATE 1 PLAN PROFILE 0.5" H. & 1" V. STANDARD  
DETROIT CORPORATION  
PRINTED IN U.S.A.

DATE OF LAST FIELDWORK: 11-18-92

FIELD BOOK 336 / 30-34

386 / 31-38

FILE NO. 92D-5190

SHEET

14

AS-BUILT

STORM DRAINAGE  
(STA. 22+00 - STA. 36+00)

TRAIL RIDGE LANDFILL  
(PLAN A)

SCALE: 1" = 50'  
WORK ORDER NO. 592-61  
DRAWN BY: J.L.R.  
CHECKED BY: R.S.C.

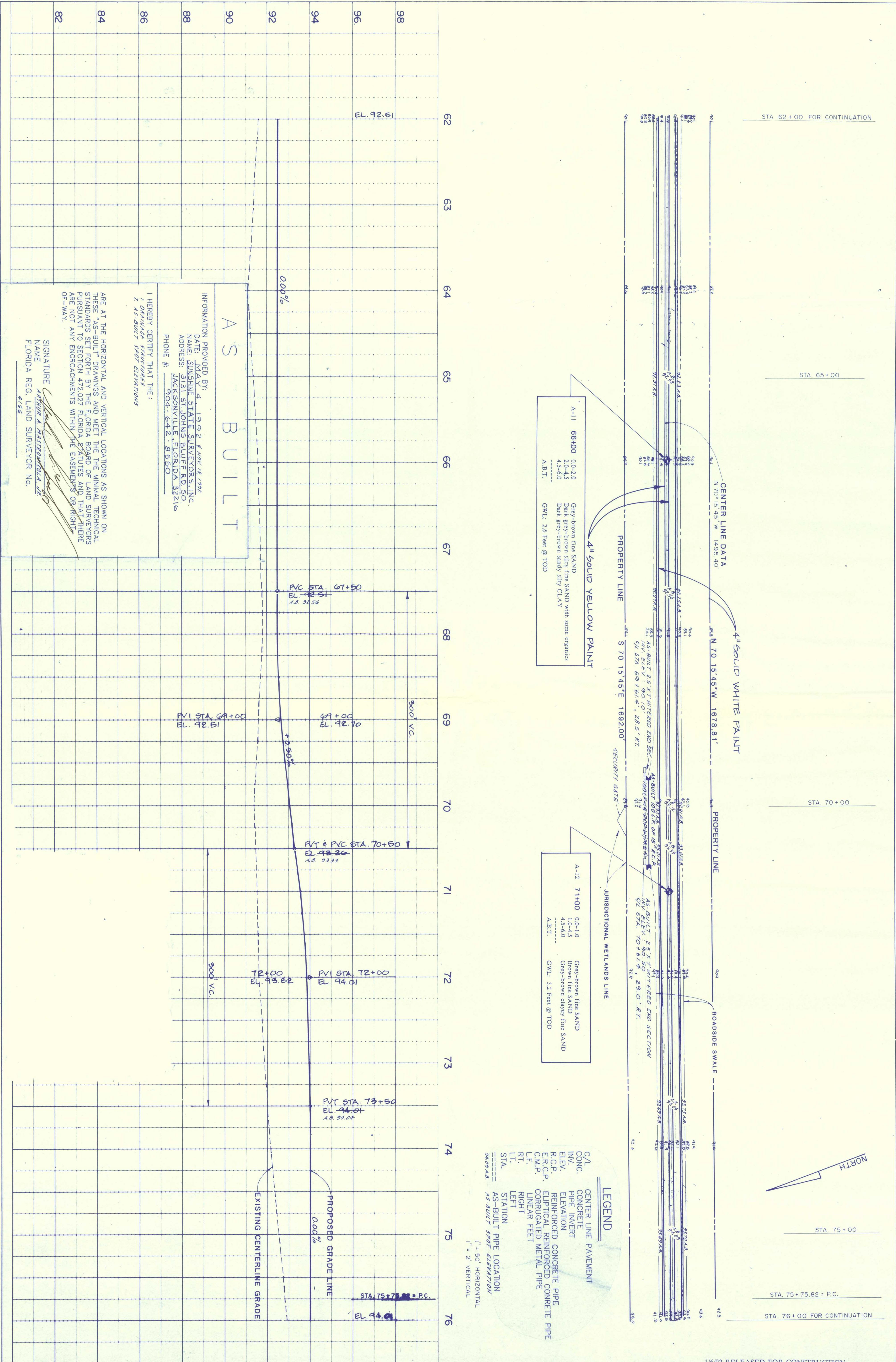
SUNSHINE STATE  
SURVEYORS, INC.  
ENGINEERS, SURVEYORS & LAND PLANNERS  
3131 ST. JOHNS BLUFF RD., SOUTH,  
JACKSONVILLE, FLORIDA 32216





| PLAN      | SURVEYED                    | BY | DATE |
|-----------|-----------------------------|----|------|
| NOTE BOOK | PLOTTED                     |    |      |
| NO        | GRADES CHECKED              |    |      |
|           | BY                          |    |      |
|           | STRUCTURE NOTATIONS CHECKED |    |      |

| PROFILE   | SURVEYED                    | BY | DATE |
|-----------|-----------------------------|----|------|
| NOTE BOOK | PLOTTED                     |    |      |
| NO        | GRADES CHECKED              |    |      |
|           | BY                          |    |      |
|           | STRUCTURE NOTATIONS CHECKED |    |      |



1/6/92 RELEASED FOR CONSTRUCTION

**SUNSHINE STATE SURVEYORS, INC.**  
ENGINEERS, SURVEYORS & LAND PLANNERS  
3131 ST. JOHNS BLUFF RD. SOUTH,  
JACKSONVILLE, FLORIDA 32216



SCALE: 1" = 50'  
WORK ORDER No. 592-61  
DRAWN BY: J.L.R.  
CHECKED BY: R.S.C.

**STORM DRAINAGE**  
(STA. 62+00 - STA. 76+00)

**TRAIL RIDGE LANDFILL**  
(PLAN A)

**AS-BUILT**

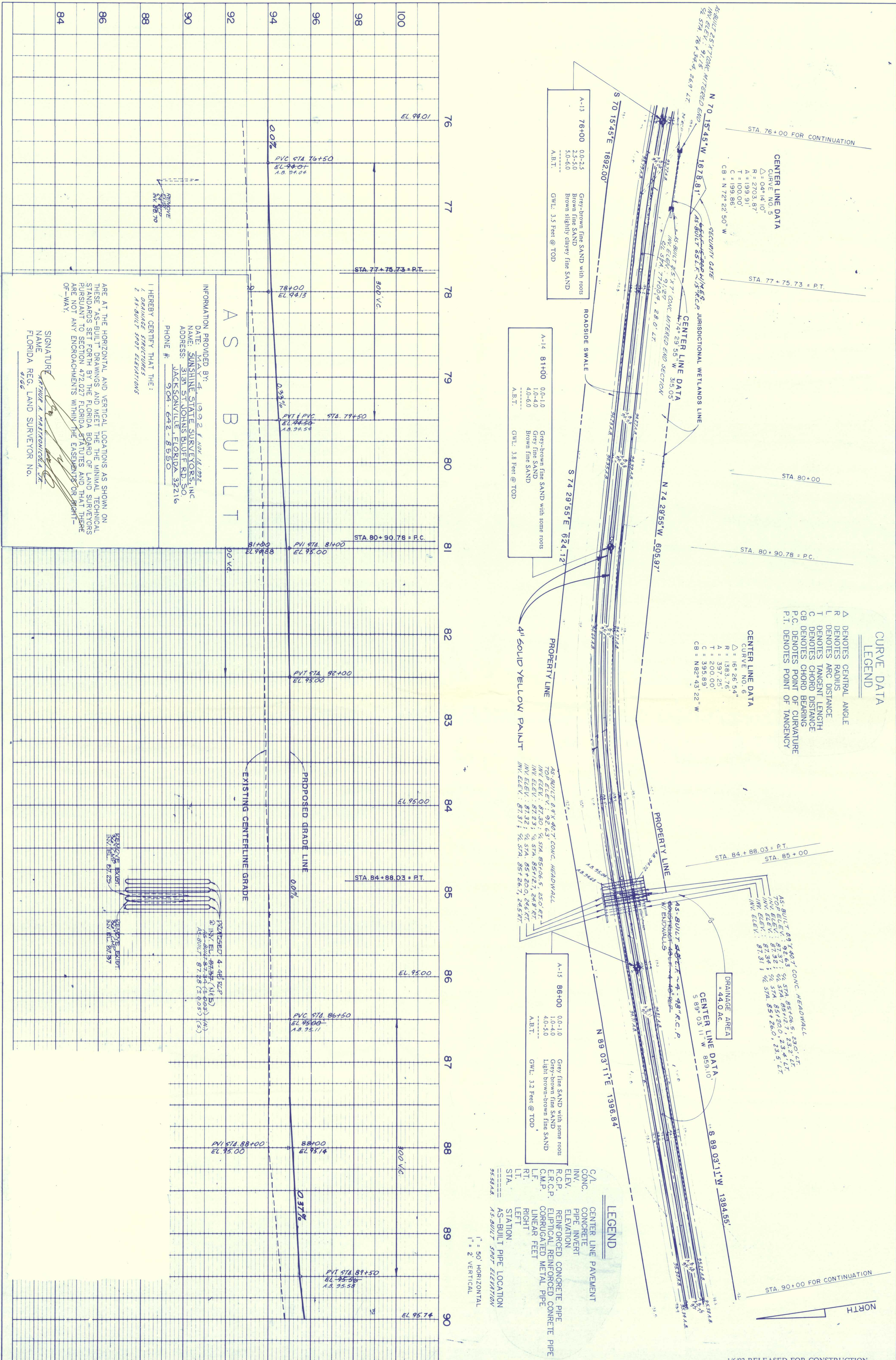
SHEET

17



|           |                    |    |      |
|-----------|--------------------|----|------|
| PLAN      | SURVEYED           | BY | DATE |
| NOTE BOOK | PLOTTED            |    |      |
|           | GRABS CHECKED      |    |      |
|           | RT. OF WAY CHECKED |    |      |

|           |                    |    |      |
|-----------|--------------------|----|------|
| PROFILE   | SURVEYED           | BY | DATE |
| NOTE BOOK | PLOTTED            |    |      |
|           | GRABS CHECKED      |    |      |
|           | RT. OF WAY CHECKED |    |      |



CURVE DATA  
LEGEND

- Δ DENOTES CENTRAL ANGLE
- R DENOTES RADIUS
- L DENOTES ARC DISTANCE
- T DENOTES TANGENT LENGTH
- C DENOTES CHORD DISTANCE
- CB DENOTES CHORD BEARING
- P.C. DENOTES POINT OF CURVATURE
- P.T. DENOTES POINT OF TANGENCY

CURVE LINE DATA

CURVE NO. 6  
Δ = 16° 26' 54"  
R = 1363.76'  
L = 397.25'  
T = 200.00'  
C = 395.89'  
CB = N82° 43' 22" W

CURVE LINE DATA

CURVE NO. 5  
Δ = 04° 14' 10"  
R = 2703.87'  
L = 199.91'  
T = 100.00'  
C = 199.86'  
CB = N72° 22' 50" W

CURVE LINE DATA

CURVE NO. 4  
Δ = 16° 26' 54"  
R = 1363.76'  
L = 397.25'  
T = 200.00'  
C = 395.89'  
CB = N82° 43' 22" W

LEGEND

- C/L CENTER LINE PAVEMENT
- CONC. CONCRETE
- INV. PIPE INVERT
- ELEV. ELEVATION
- R.C.P. REINFORCED CONCRETE PIPE
- E.R.C.P. ELUPTICAL REINFORCED CONCRETE PIPE
- C.M.P. CORRUGATED METAL PIPE
- L.F. LINEAR FEET
- RT. RIGHT
- LT. LEFT
- STA. STATION
- AS-BUILT PIPE LOCATION
- AS-BUILT SPOT ELEVATION

AS-BUILT

DATE: MAY 14, 1992  
NAME: SUNSHINE STATE SURVEYORS, INC.  
ADDRESS: 3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216  
PHONE # 904-642-8550

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND MEET THE MINIMAL TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO SECTION 472.027 FLORIDA STATUTES AND THAT THERE ARE NOT ANY ENCROACHMENTS WITHIN THE EASEMENTS OR RIGHT-OF-WAY.

SIGNATURE: [Signature]  
NAME: [Name]  
FLORIDA REG. LAND SURVEYOR NO. 4106

1/6/92 RELEASED FOR CONSTRUCTION

SUNSHINE STATE SURVEYORS, INC.  
ENGINEERS, SURVEYORS & LAND PLANNERS  
3131 ST. JOHNS BLUFF RD. SOUTH, JACKSONVILLE, FLORIDA 32216



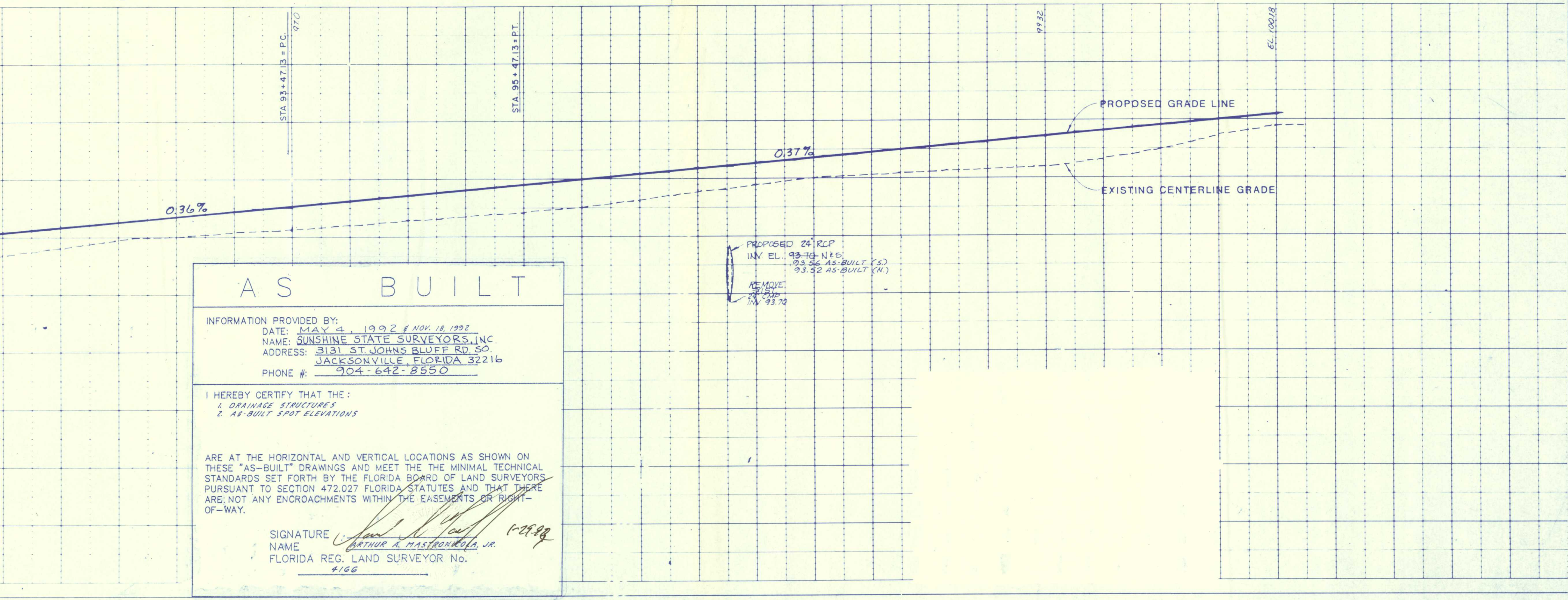
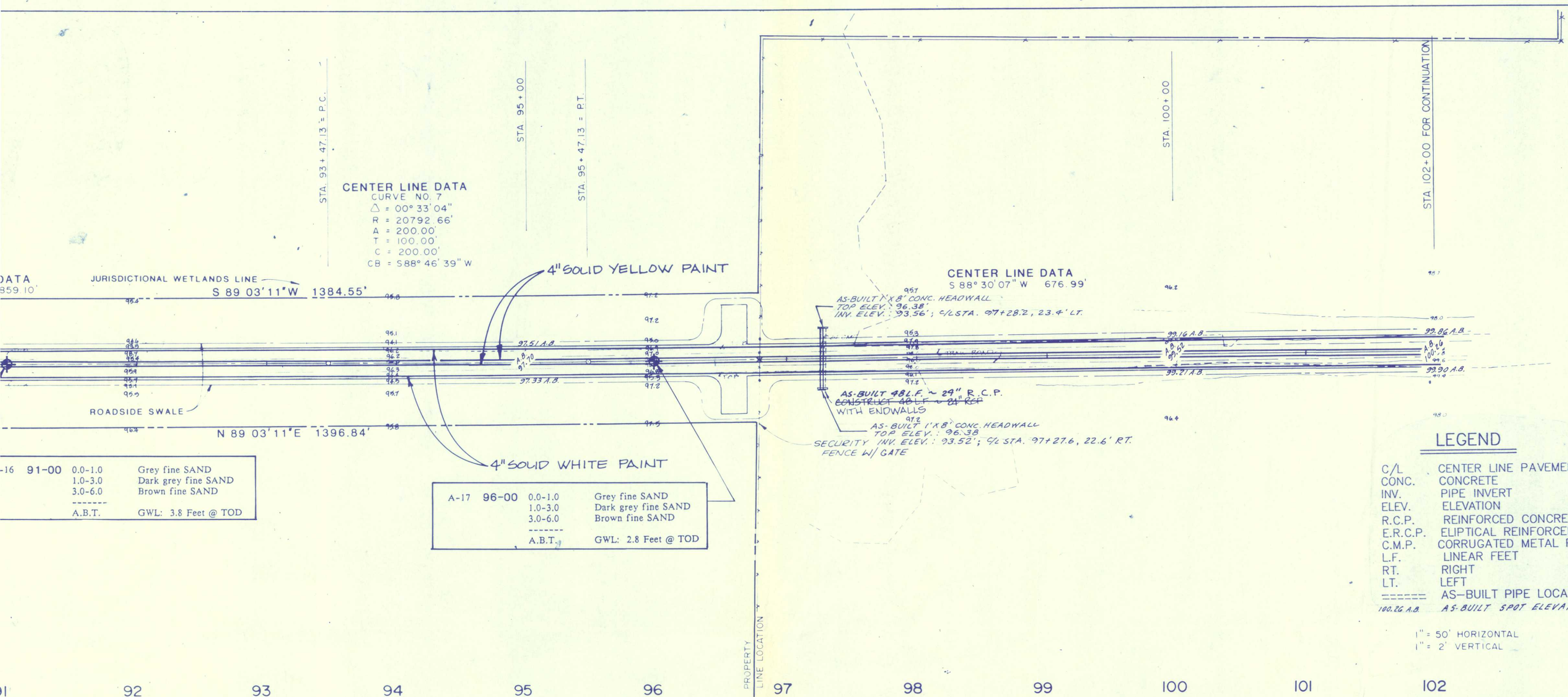
STORM DRAINAGE  
(STA. 76+00 - STA. 90+00)

TRAIL RIDGE LANDFILL  
(PLAN A)

SCALE: 1" = 50'  
WORK ORDER NO. 592-61  
DRAWN BY: J.L.R.  
CHECKED BY: R.S.C.

AS-BUILT





AS BUILT

INFORMATION PROVIDED BY:  
 DATE: MAY 4, 1992 & NOV. 18, 1992  
 NAME: SUNSHINE STATE SURVEYORS, INC.  
 ADDRESS: 3131 ST. JOHNS BLUFF RD. SO.  
 JACKSONVILLE, FLORIDA 32216  
 PHONE #: 904-642-8550

I HEREBY CERTIFY THAT THE:  
 1. DRAINAGE STRUCTURES  
 2. AS-BUILT SPOT ELEVATIONS

ARE AT THE HORIZONTAL AND VERTICAL LOCATIONS AS SHOWN ON THESE "AS-BUILT" DRAWINGS AND MEET THE MINIMAL TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS PURSUANT TO SECTION 472.027 FLORIDA STATUTES AND THAT THERE ARE NOT ANY ENCROACHMENTS WITHIN THE EASEMENTS OR RIGHT-OF-WAY.

SIGNATURE: *Arthur A. Mastroianni, Jr.*  
 NAME: ARTHUR A. MASTROIANNI, JR.  
 FLORIDA REG. LAND SURVEYOR No. 4166

- LEGEND**
- |             |                                     |
|-------------|-------------------------------------|
| C/L         | CENTER LINE PAVEMENT                |
| CONC.       | CONCRETE                            |
| INV.        | PIPE INVERT                         |
| ELEV.       | ELEVATION                           |
| R.C.P.      | REINFORCED CONCRETE PIPE            |
| E.R.C.P.    | ELLIPTICAL REINFORCED CONCRETE PIPE |
| C.M.P.      | CORRUGATED METAL PIPE               |
| L.F.        | LINEAR FEET                         |
| RT.         | RIGHT                               |
| LT.         | LEFT                                |
| -----       | AS-BUILT PIPE LOCATION              |
| 100.26 A.B. | AS-BUILT SPOT ELEVATION             |
- 1" = 50' HORIZONTAL  
 1" = 2' VERTICAL



**SUNSHINE STATE SURVEYORS, INC.**  
 ENGINEERS, SURVEYORS & LAND PLANNERS  
 3131 ST. JOHNS BLUFF RD. SOUTH,  
 JACKSONVILLE, FLORIDA 32216

SCALE: 1" = 50'

WORK ORDER NO. 592-61

DRAWN BY: J.L.R.

CHECKED BY: R.S.C.

**STORM DRAINAGE**  
 (STA. 90+00 - 102+24.12)

**TRAIL RIDGE LANDFILL**  
 (PLAN A)

**AS-BUILT**

SHEET

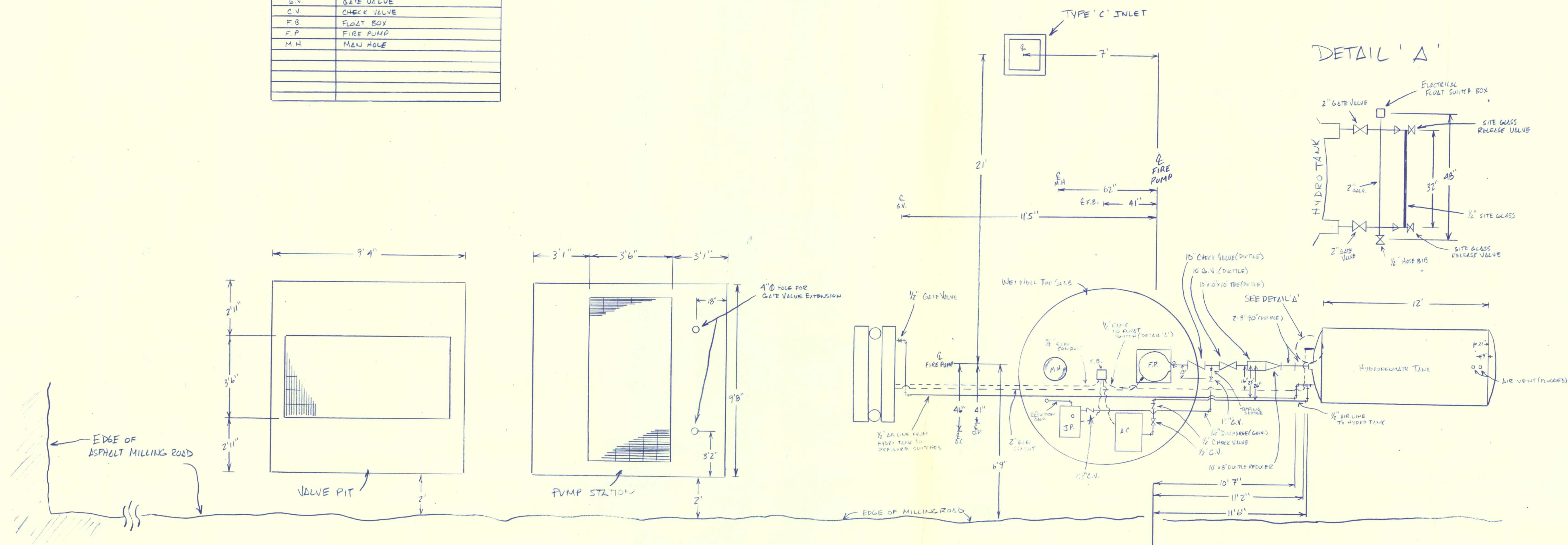
19

DATE OF LAST FIELDWORK: 11-18-92

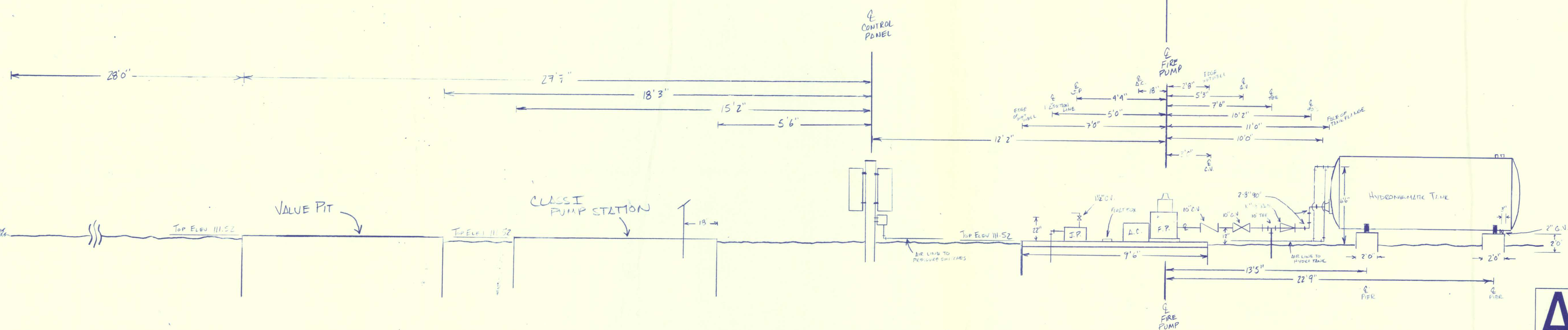
FIELD BOOK 336/30-34  
386/31-38

FILE No. 92D-5190



[illegible]

CLASS I FIRE PUMP/HYDRO TANK-STORMWATER  
ASBUILT - "PLAN VIEW" N.T.S.



CLASS I FIRE PUMP/HYDRO TANK - STORMWATER  
ASBUILT - 'ELEVATION VIEW' N.T.S.

**SHEET 20**

# AS-BUILT

I hereby certify that the materials used in the construction of:

|                                         |                                                  |
|-----------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Pavement       | <input type="checkbox"/> Water Main              |
| <input type="checkbox"/> Curb & Gutter  | <input type="checkbox"/> Sanitary Gravity Sewer  |
| <input type="checkbox"/> Storm Drainage | <input type="checkbox"/> Force Main              |
|                                         | <input checked="" type="checkbox"/> Lift Station |

Name BUCKLEY K. WILLIAMS Date 12-23-6

**JAX UTILITIES CONSTRUCTION**  
DIVISION OF THE HASKELL COMPANY  
Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4636

DATE: 12-22-92

CLASS I FIRE PUMP/HYDRO TANK - STORMWATER ASBEST

# TRAIL RIDGE LANDFILL

**THE HASKELL COMPANY**  
ARCHITECTS/ENGINEERS/CONTRACTORS





I hereby certify that the materials used in the construction of:

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| <input type="checkbox"/> Pavement       | <input checked="" type="checkbox"/> Water Main  |
| <input type="checkbox"/> Curb & Gutter  | <input type="checkbox"/> Sanitary Gravity Sewer |
| <input type="checkbox"/> Storm Drainage | <input type="checkbox"/> Force Main             |
|                                         | <input type="checkbox"/> Lift Station           |

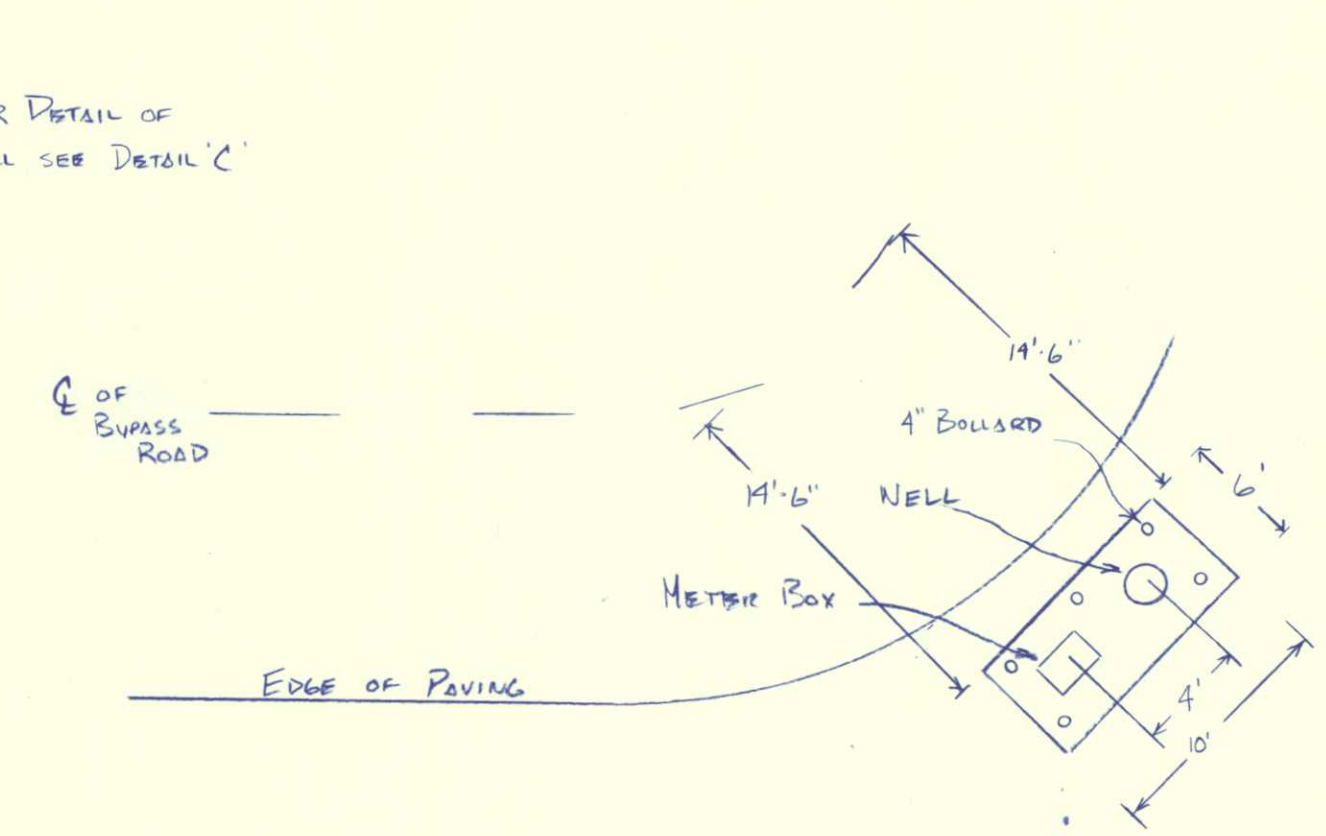
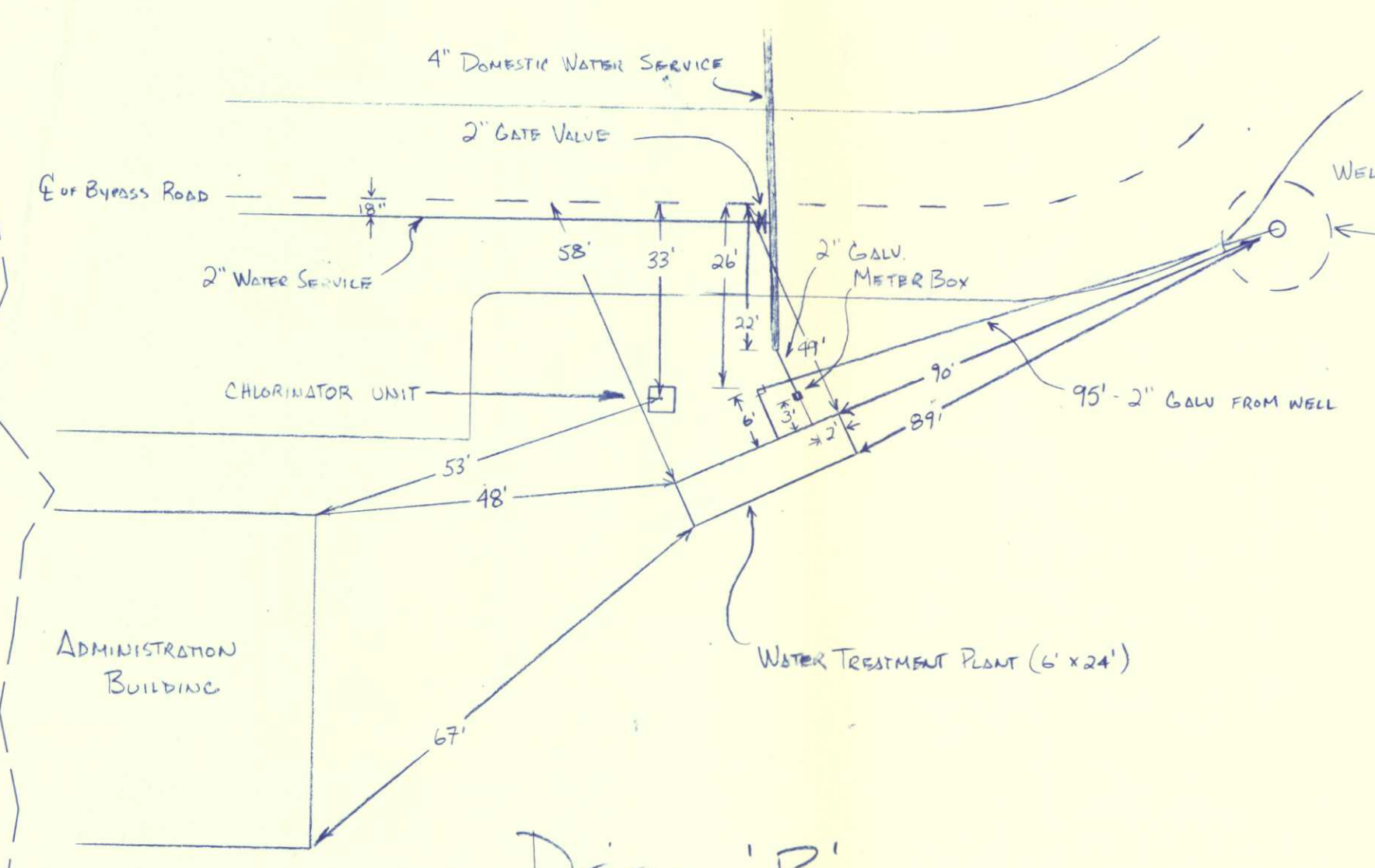
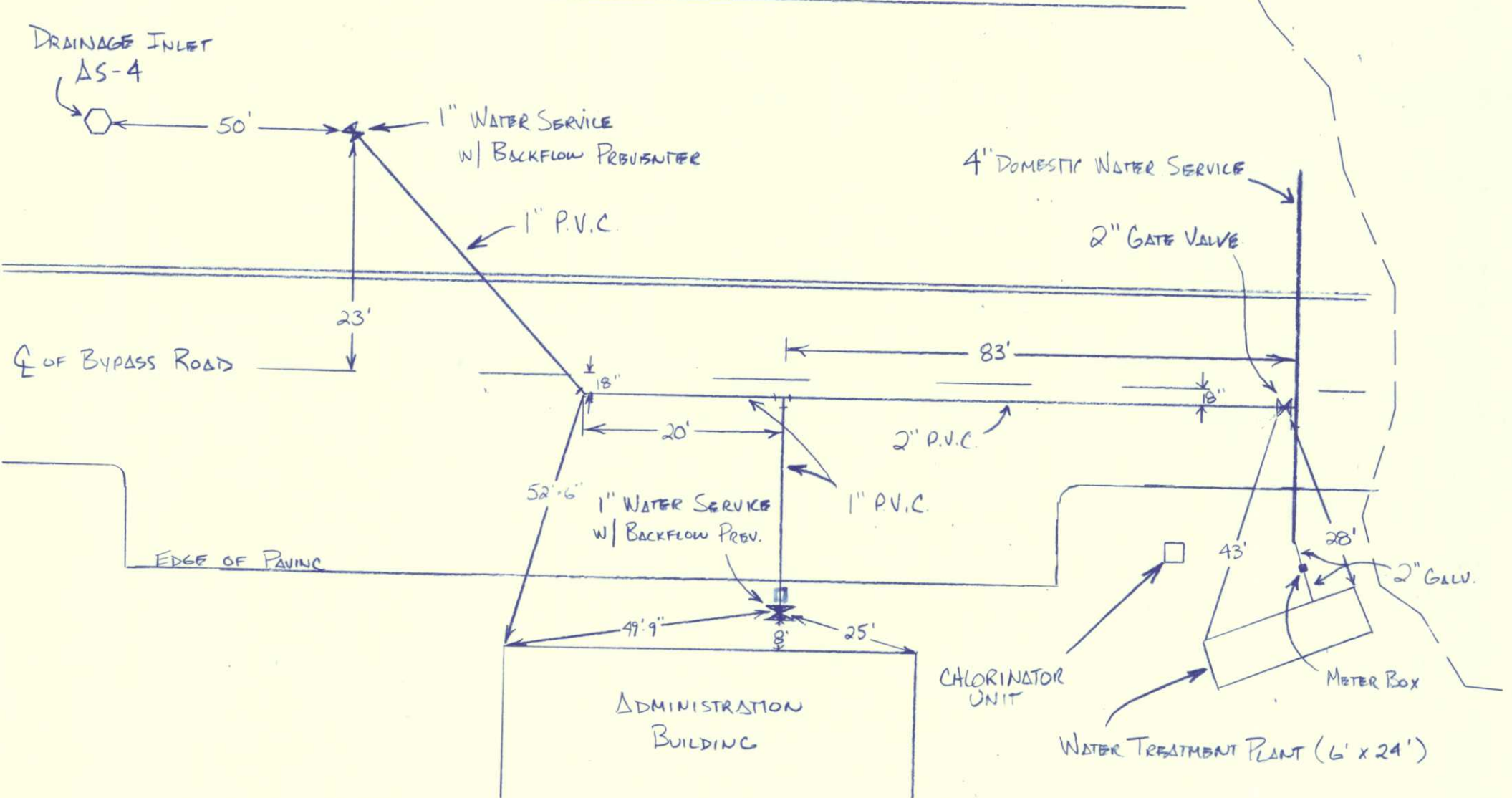
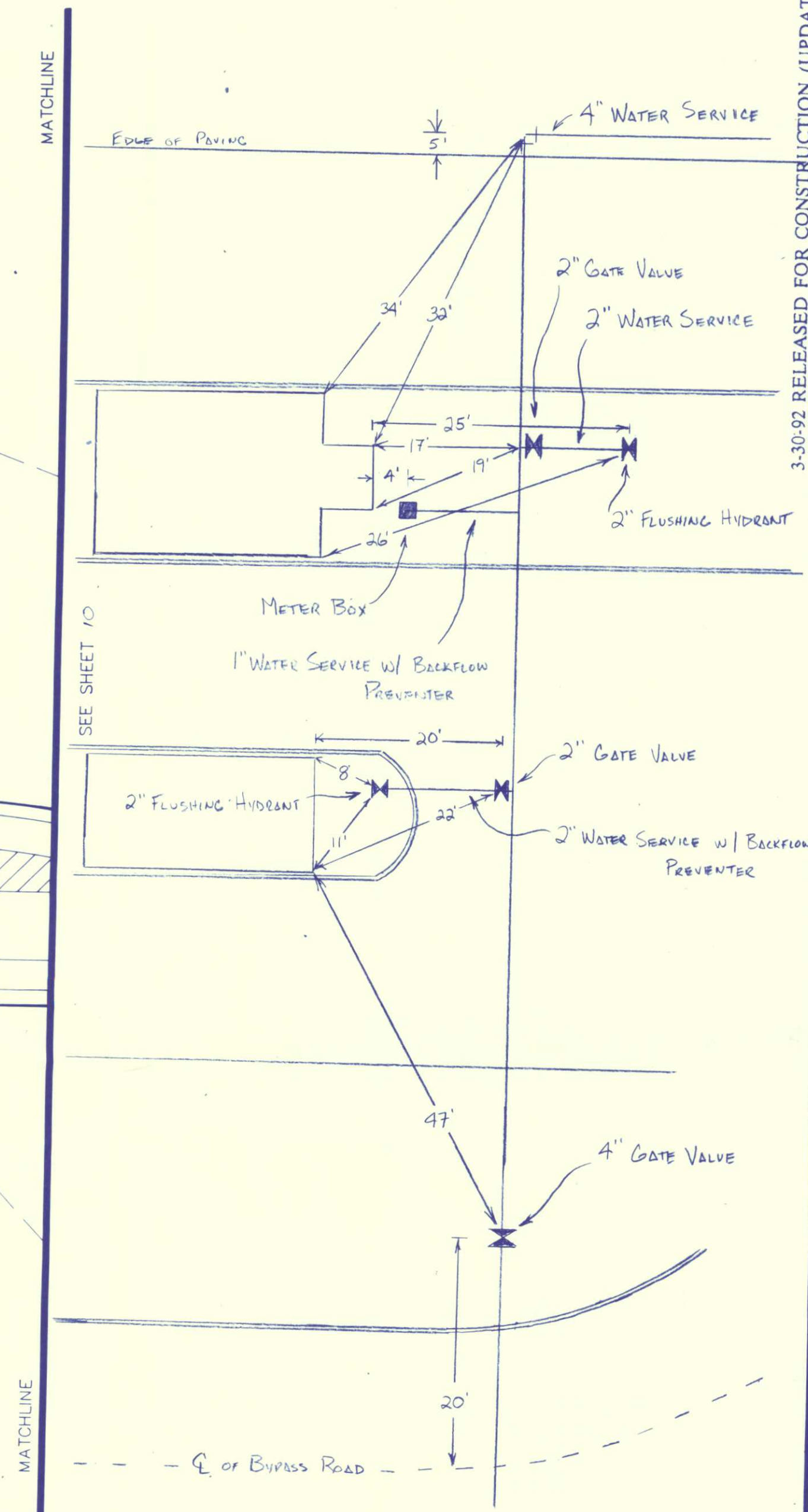
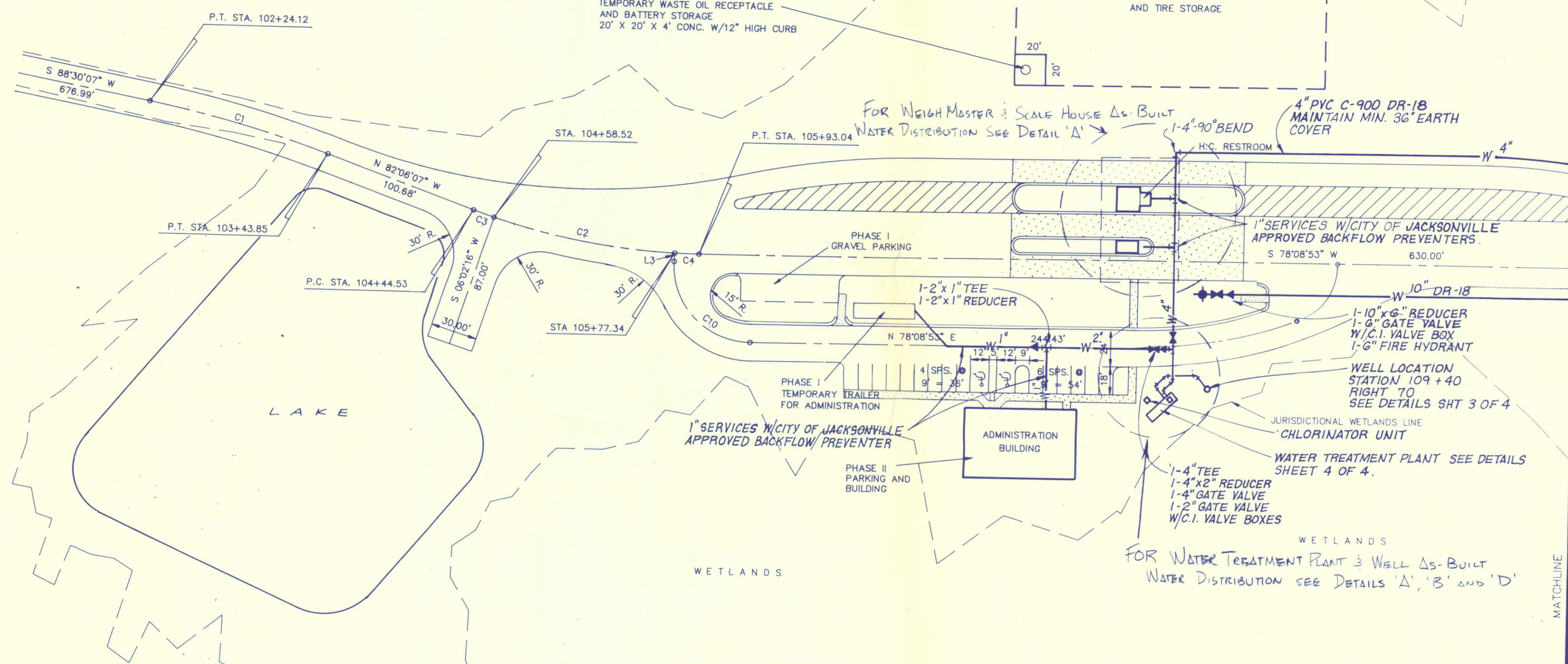
are in accordance with the approved plans and city specifications, unless otherwise approved by the city engineer.

Name James E. Williams Date 7/18/92

Signature \_\_\_\_\_

 **JAX UTILITIES CONSTRUCTION**  
DIVISION OF THE HASKELL COMPANY

Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4630



3-30-92 RELEASED FOR CONSTRUCTION (UPDATED).  
1/6/92 RELEASED FOR CONSTRUCTION.  
REVISIONS

|                                  |                            |                            |                          |
|----------------------------------|----------------------------|----------------------------|--------------------------|
| ENG PROJ NO<br><b>E 89-113-9</b> | DRAWN BY:<br><b>S.J.L.</b> | CHECKED BY:<br><b>J.T.</b> | DATE:<br><b>11-25-91</b> |
|----------------------------------|----------------------------|----------------------------|--------------------------|

## WATER TREATMENT FACILITY

## TRAILRIDGE LANDFILL

JACKSONVILLE, FLORIDA

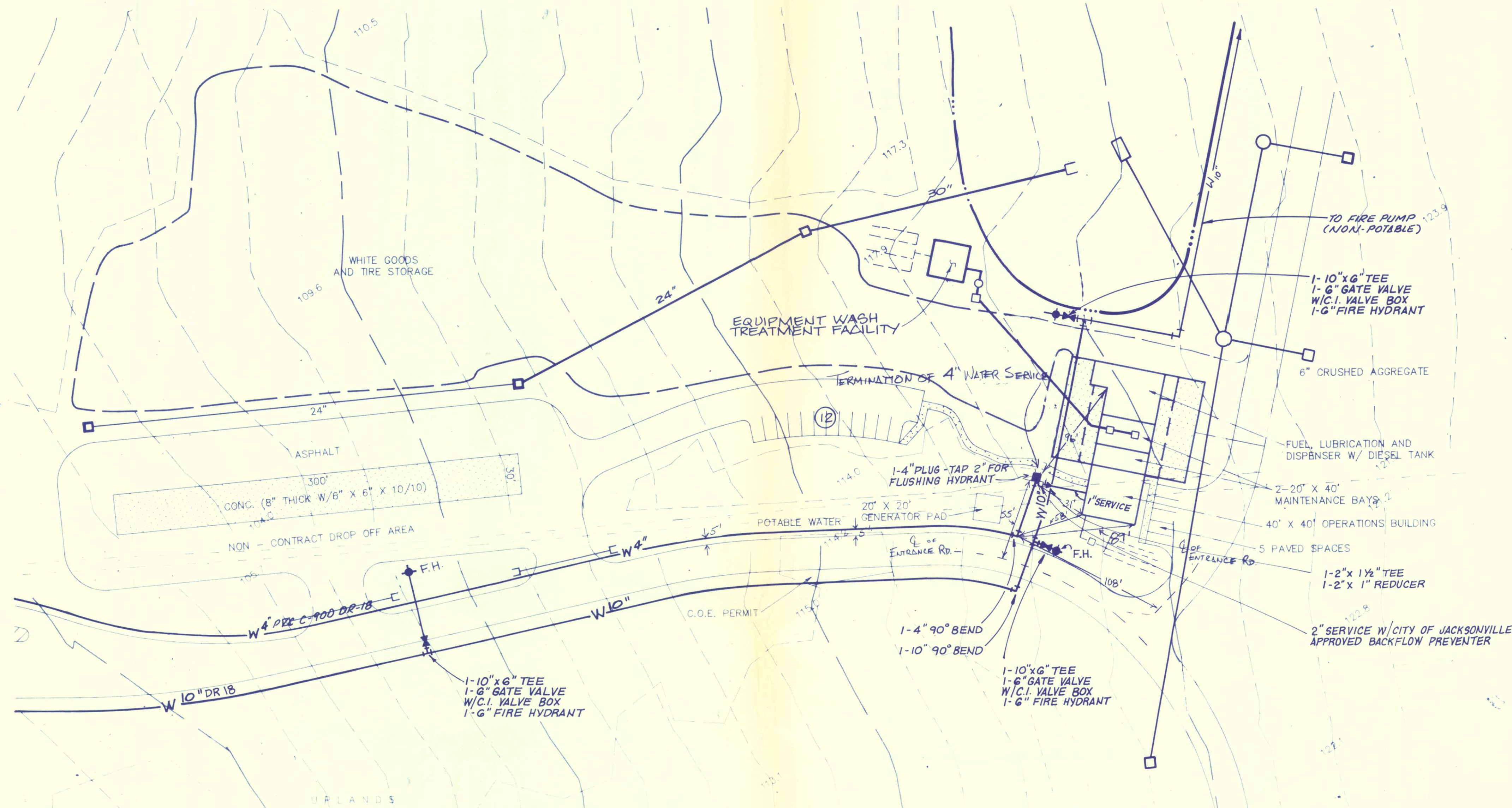
DRAWING NO.

WT 1

PROJ NO

RELEASED FOR CONSTRUCTION





# AS-BUILT

I hereby certify that the materials used in the construction of:

|                |                        |
|----------------|------------------------|
| Pavement       | Water Main             |
| Curb & Gutter  | Sanitary Gravity Sewer |
| Storm Drainage | Force Main             |
|                | Lift Station           |

are in accordance with the approved plans and city specifications, unless otherwise approved by the city engineer.

Name: James R. Williams Date: 7/8/92

Signature: [Signature]

**JAX UTILITIES CONSTRUCTION**  
DIVISION OF THE HASKELL COMPANY  
Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4630

# AS-BUILT

In accordance with Chapter 471, Florida Statutes, I hereby certify that the

|                |                        |
|----------------|------------------------|
| Pavement       | Water Main             |
| Curb & Gutter  | Sanitary Gravity Sewer |
| Storm Drainage | Force Main             |
|                | Lift Station           |

are at the horizontal and vertical locations as shown on these "AS-BUILT" drawings, and that these improvements are within the easements or right-of-way.

Name: James R. Williams Date: 7/8/92

Signature: [Signature] FL Prof. Eng. No. 20229

**JAX UTILITIES CONSTRUCTION**  
DIVISION OF THE HASKELL COMPANY  
Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4630

NOTE: REFER TO SHEET A3 FOR LIMITS OF PHASE I AND PHASE II CONSTRUCTION

3-30-92 RELEASED FOR CONSTRUCTION (UPDATED)

REVISIONS

|                              |                     |                     |                   |
|------------------------------|---------------------|---------------------|-------------------|
| ENG. PROJ. NO.<br>E-91-126-2 | DRAWN BY:<br>C.D.T. | CHECKED BY:<br>J.M. | DATE<br>JAN. 1992 |
|------------------------------|---------------------|---------------------|-------------------|

**WATER TREATMENT FACILITY**

**TRAIL RIDGE LANDFILL**  
FLORIDA  
JACKSONVILLE

JACKSONVILLE, FLORIDA

DRAWING NO.

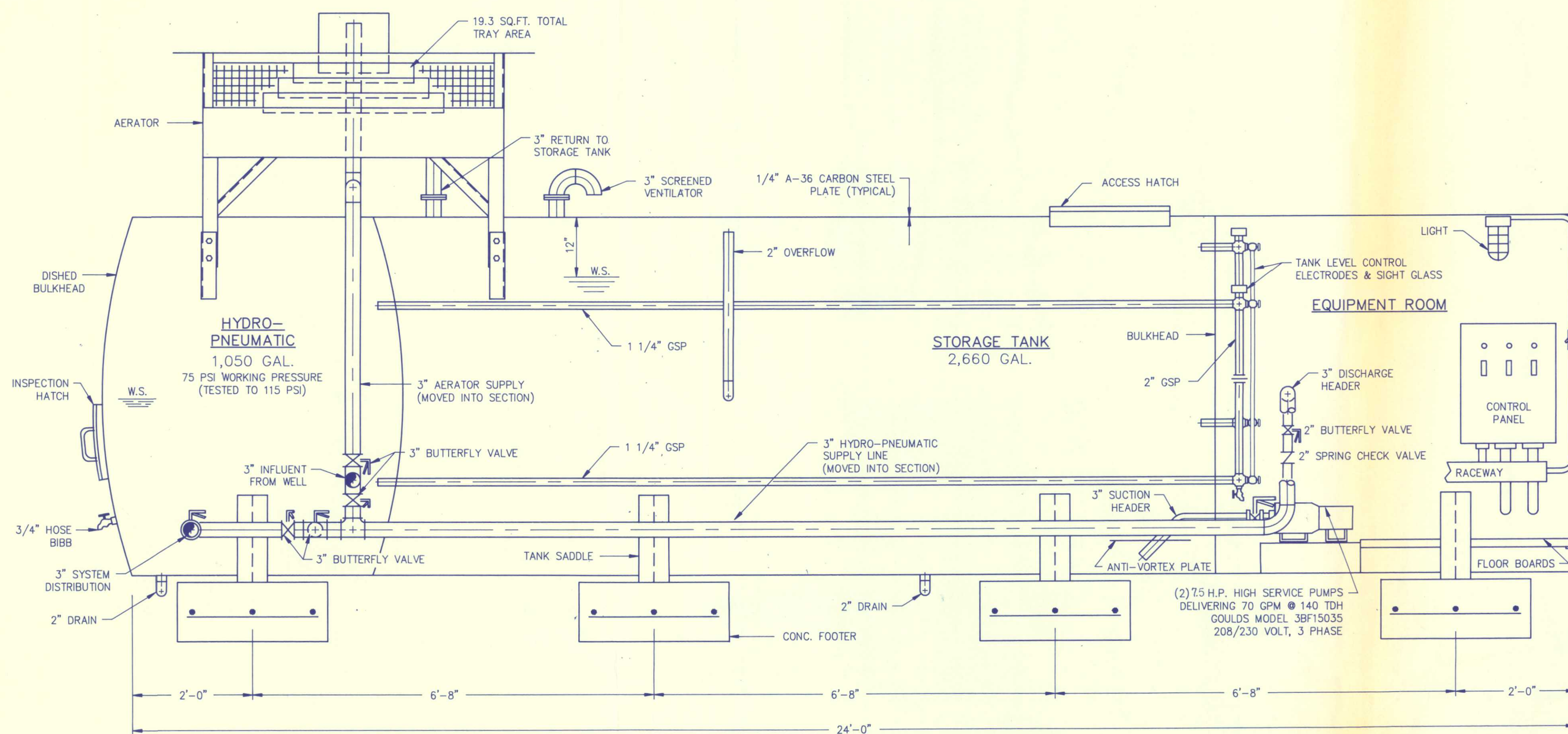
**WT 2**

PROJ. NO. 91-126-2

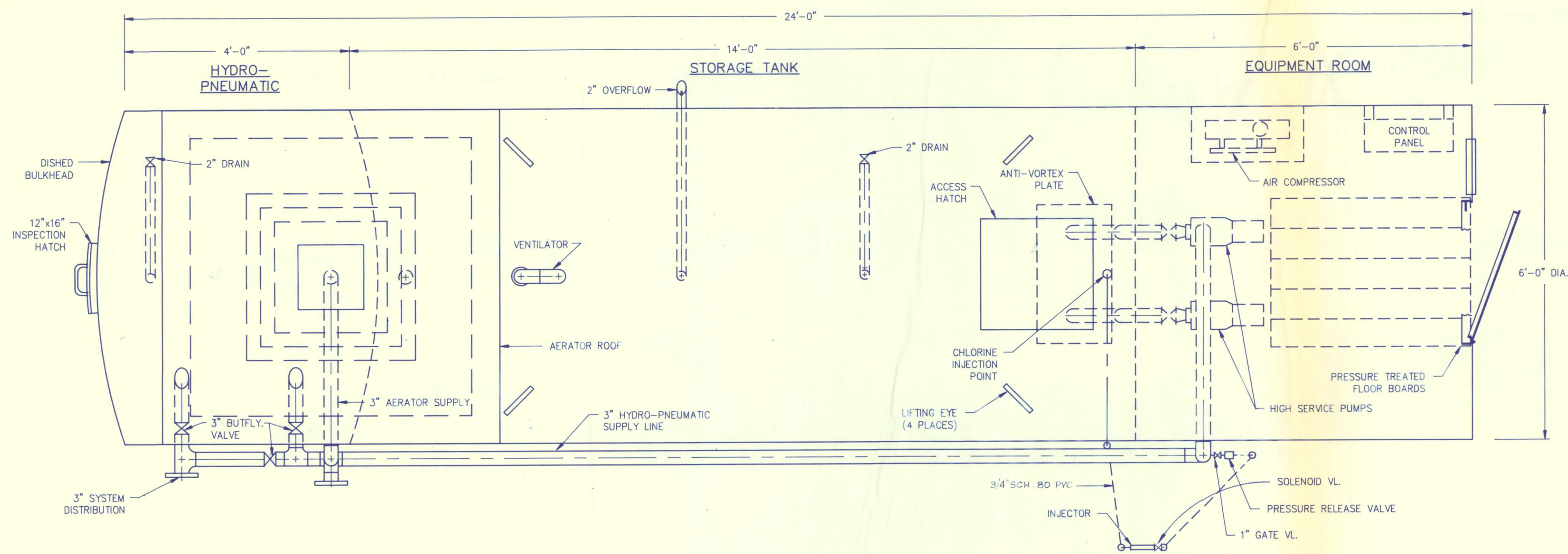




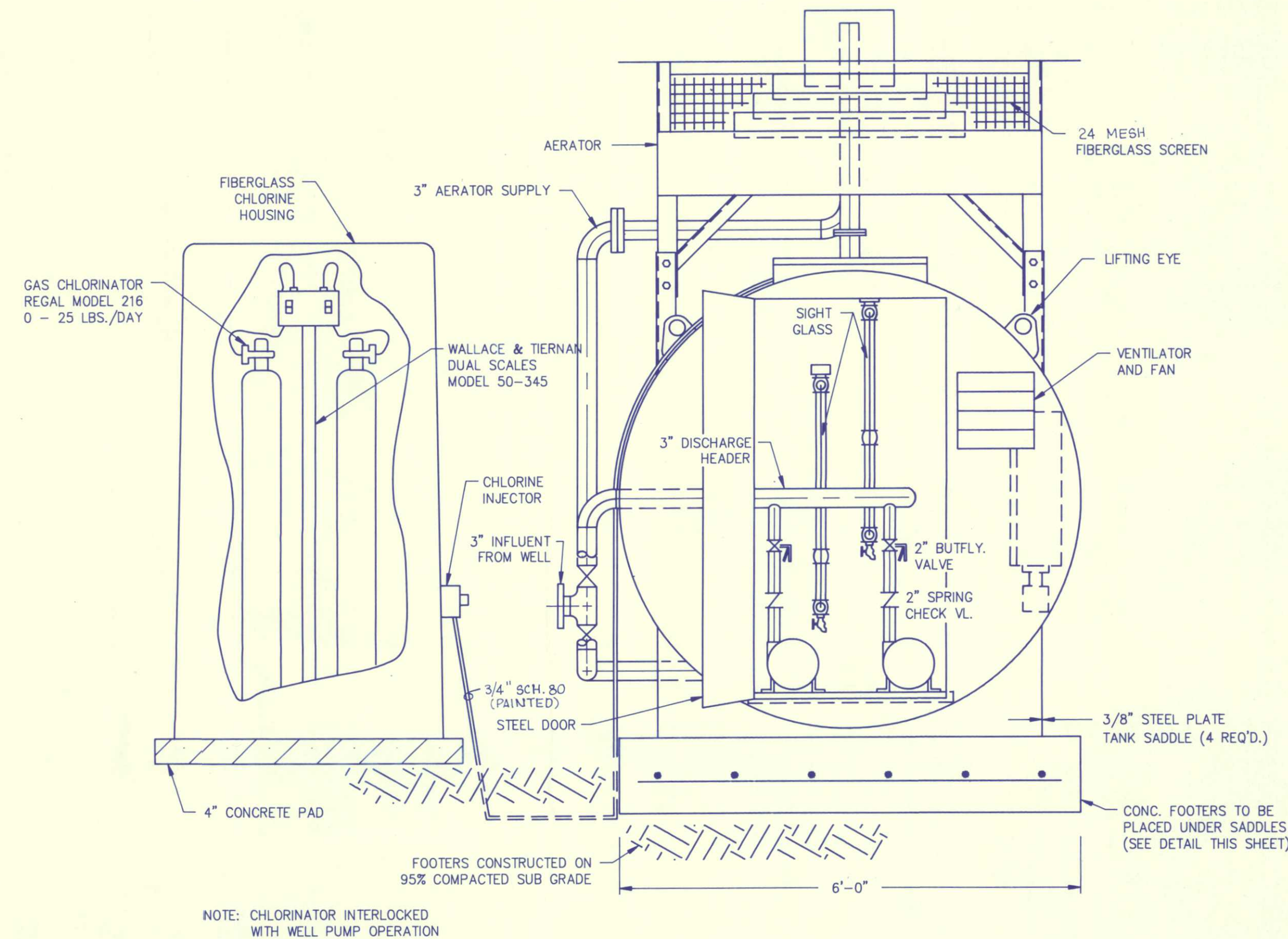




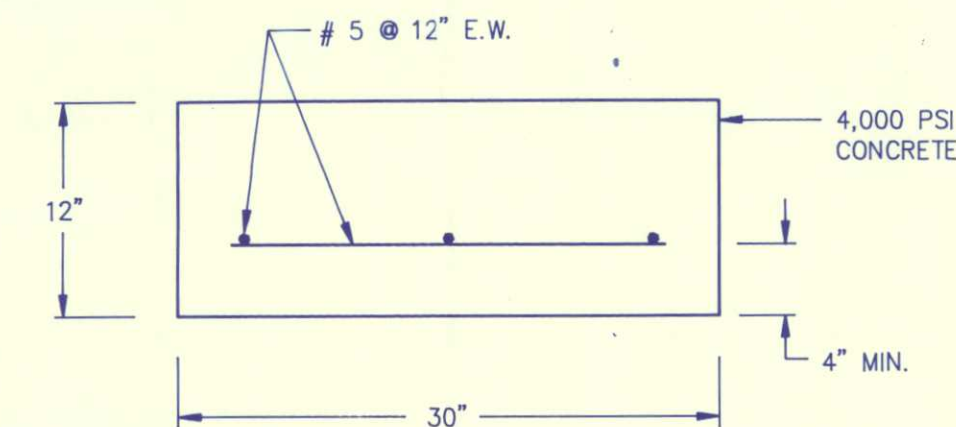
**LONGITUDINAL SECTION**  
SCALE : 3/4"=1'-0"



**PLAN VIEW**  
SCALE : 3/4"=1'-0"



**END VIEW**  
SCALE : 3/4"=1'-0"



**FOOTER DETAIL**  
3/32\"/>

**AS-BUILT**

I hereby certify that the materials used in the construction of:  
 — Pavement — Water Main —  
 — Curb & Gutter — Sanitary Gravity Sewer —  
 — Storm Drainage — Force Main —  
 — Lift Station —  
 are in accordance with the approved plans and city specifications, unless otherwise approved by the city engineer.  
 Name Bruce H. Williams Date 7/18/92  
 Signature [Signature]  
**JAX UTILITIES CONSTRUCTION**  
 DIVISION OF THE HASKELL COMPANY  
 Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4630

**AS-BUILT**

In accordance with Chapter 471, Florida Statutes, I hereby certify that the  
 — Pavement — Water Main —  
 — Curb & Gutter — Sanitary Gravity Sewer —  
 — Storm Drainage — Force Main —  
 — Lift Station —  
 are at the horizontal and vertical locations as shown on these "AS-BUILT" drawings, and that these improvements are within the easements or right-of-way.  
 Name Glenn Wetherell Date 7/14/92  
 Signature [Signature] FL Prof. Eng. No. 20109  
**JAX UTILITIES CONSTRUCTION**  
 DIVISION OF THE HASKELL COMPANY  
 Haskell Building • Jacksonville, Florida 32231-4100 • 904/791-4630

NOTE :  
 TANK TO BE CONSTRUCTED OF 1/4" STEEL PLATE. ALL WELDED CONSTRUCTION.

SANDBLAST ALL STEEL SURFACES TO SSPC-SP6 COMMERCIAL BLAST CLEANING SPECIFICATIONS.

PAINTING TO BE AS FOLLOWS :  
 INTERIOR — INCLUDING AERATOR, STORAGE, AND HYDRO TANK SHALL HAVE TWO COATS OF MOBILE 40-AW-13, 7 MIL. EA. OR 14 MIL. TOTAL DRY FILM THICKNESS.  
 EXTERIOR — ONE COAT OF MOBILE PRIMER 40-DR-5 H.B. EPOXY, 4 MIL. DFT., ONE FINISH COAT OF MOBILE 72-AQ-2 (TAN BARK) POLYURETHANE ENAMEL 1.5 MIL. DRY FILM THICKNESS.

**10,000 G.P.D.  
 WATER TREATMENT PLANT  
 "AS BUILT"**

*Glenn Wetherell*

**WETHERELL TREATMENT SYSTEMS, INC.**  
 ORMOND BEACH, FLORIDA

|                 |                                |                   |
|-----------------|--------------------------------|-------------------|
| SCALE AS SHOWN  | APPROVED BY <u>[Signature]</u> | DRAWN BY S. R. J. |
| DATE 6 / 8 / 92 |                                | REVISED 8-7-92    |

TRAIL RIDGE

**WT 4**