

SAFETY ON THIS JOB
DEPENDS ON YOU

ESTATE MON BIJOU
ST. CROIX, U.S. VIRGIN ISLANDS

**PLANS
FOR
CONSTRUCTION OF**

FLOOD CONTROL CHANNEL



**DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA**

2004

TO ACCOMPANY INVITATION
NO. W912EP-04-B-0005
DATED:

 * INCREASE PROFIT -- SUBMIT VECP'S *

D. O. FILE NUMBERS 109-36,488 AND 109-36,491

PLANS FOR FLOOD CONTROL CHANNEL ST. CROIX, U.S. VIRGIN ISLANDS

**SAFETY ON THIS JOB
DEPENDS ON YOU**

| REVISIONS | | | | | |
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| NO. | SYM. | ZONE | DESCRIPTION | DATE | APPROVED |
| 4 | | | REVISED TO ACCOMPANY AMEND. 0001 | 8-24-92 | |
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ESTATE MON BIJOU ST. CROIX, U.S. VIRGIN ISLANDS

PLANS FOR CONSTRUCTION OF FLOOD CONTROL CHANNEL

**DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
2004**

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THIS PROJECT WAS DESIGNED BY THE JACKSONVILLE DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1118-1-8152.

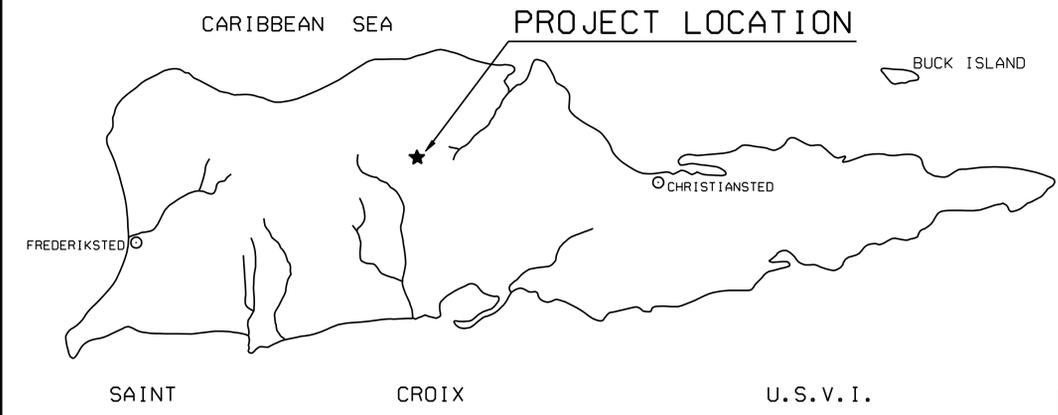
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|---|---|
| PREPARED BY: CHECKED BY: SUBMITTED BY: APPROVAL, RECOMMENDED: APPROVED: | DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA ESTATE MON BIJOU ST. CROIX, U.S. VIRGIN ISLANDS FLOOD CONTROL CHANNEL GENERAL INDEX TO DRAWINGS |
| DRAWING NO. 1/1 DATED: 6 JULY 1994 SCALE: AS SHOWN DATED: AUGUST 1993 SHEET 1 OF 29 | INV. NO. W912EP-04-B-0005 SIZE F DRAWING NO. 1/1 |

D. O. FILE NO. 109-36,488

AUGUST 2004 08:28:08 AM

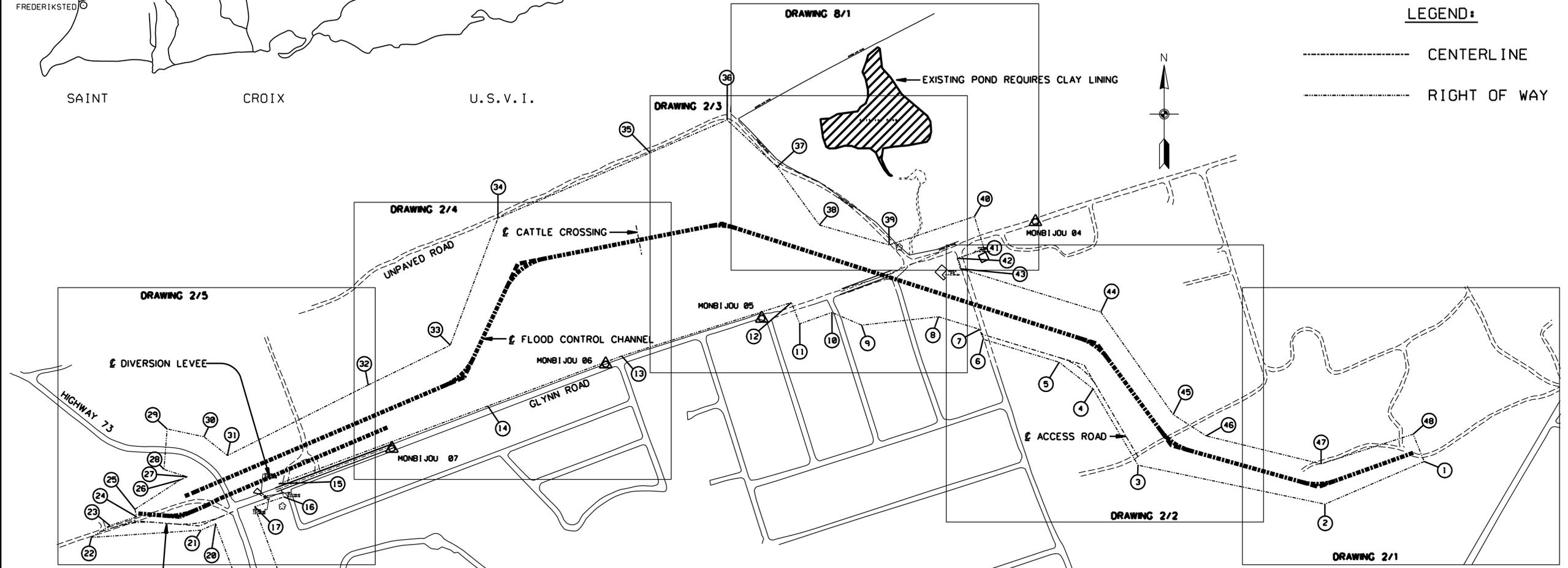
SAFETY ON THIS JOB DEPENDS ON YOU

| REVISIONS | | | | | |
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| DESIGNATION | CONTROL MONUMENTS | | ELEV. |
|-------------|-------------------|------------|---------|
| | X | Y | |
| MONBIJOU 04 | 1,076,221.453 | 74,807.876 | 116.661 |
| MONBIJOU 05 | 1,074,927.558 | 74,354.942 | 180.323 |
| MONBIJOU 06 | 1,074,189.595 | 74,140.823 | 184.115 |
| MONBIJOU 07 | 1,073,178.447 | 73,744.619 | 157.138 |

LEGEND:
 - - - - - CENTERLINE
 - - - - - RIGHT OF WAY



- NOTES:**
- REFER TO SURVEY NUMBER 89-192.
 - ELEVATIONS ARE IN FEET AND TENTHS AND REFER TO VIRGIN ISLANDS USGS MEAN SEA LEVEL DATUM OF 1927 (LABELED AS NGVD).
 - PLANE COORDINATES ARE BASED ON THE LAMBERT PROJECTION FOR THE VIRGIN ISLANDS AND PUERTO RICO.
 - THE EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS REPRESENT THE RESULTS OF SURVEYS MADE ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
 - THE SURVEY DATA WAS OBTAINED WITH A WILD T1000 TOTAL STATION WITH A DI-1000 EDM AND A CMT MC-11 DATA COLLECTOR. SURVEY DATES ARE MAY THROUGH JULY 1990.
 - REFER TO FIELD BOOKS '90 ST. CROIX USVI 26 THROUGH 33'.
 - THE LOCATIONS OF THE WORK SITE, DISPOSAL AREA, AND ACCESS ARE SHOWN ON DRAWING NUMBER 7/1.

| RIGHT OF WAY | | | | | |
|--------------|--------------|-----------|-------|--------------|-----------|
| POINT | X | Y | POINT | X | Y |
| 1 | 1,078,055.73 | 73,682.18 | 17 | 1,072,530 | 73,472 |
| 2 | 1,077,590 | 73,484 | 18 | 1,072,650 | 73,147 |
| 3 | 1,076,707 | 73,667 | 19 | 1,072,459 | 73,088 |
| 4 | 1,076,494 | 74,025 | 20 | 1,072,345 | 73,392 |
| 5 | 1,076,334 | 74,150 | 21 | 1,072,276 | 73,362 |
| 6 | 1,075,974 | 74,258 | 22 | 1,071,758 | 73,328 |
| 7 | 1,075,959 | 74,304 | 23 | 1,071,845.31 | 73,384.07 |
| 8 | 1,075,763 | 74,363 | 24 | 1,071,972.07 | 73,424.92 |
| 9 | 1,075,400 | 74,324 | 25 | 1,071,964.05 | 73,460.32 |
| 10 | 1,075,259 | 74,383 | 26 | 1,072,180 | 73,599 |
| 11 | 1,075,107 | 74,330 | 27 | 1,072,211 | 73,612 |
| 12 | 1,075,068 | 74,430 | 28 | 1,072,101 | 73,647 |
| 13 | 1,074,266 | 74,179 | 29 | 1,072,116 | 73,837 |
| 14 | 1,073,632 | 73,944 | 30 | 1,072,290 | 73,800 |
| 15 | 1,072,645 | 73,580 | 31 | 1,072,401 | 73,712 |
| 16 | 1,072,668 | 73,518 | 32 | 1,073,067 | 74,043 |
| | | | 33 | 1,073,455 | 74,230 |
| | | | 34 | 1,073,680 | 74,025 |
| | | | 35 | 1,074,400 | 75,132 |
| | | | 36 | 1,074,764 | 75,286 |
| | | | 37 | 1,075,000 | 75,066 |
| | | | 38 | 1,075,200 | 74,793 |
| | | | 39 | 1,075,530 | 74,700 |
| | | | 40 | 1,075,933 | 74,833 |
| | | | 41 | 1,075,979.15 | 74,679.16 |
| | | | 42 | 1,075,851.69 | 74,637.07 |
| | | | 43 | 1,075,867.45 | 74,587.67 |
| | | | 44 | 1,076,531 | 74,385 |
| | | | 45 | 1,076,873 | 73,904 |
| | | | 46 | 1,077,029 | 73,804 |
| | | | 47 | 1,077,572 | 73,673 |
| | | | 48 | 1,078,008 | 73,812 |



DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BIJOU
 ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

GENERAL
 VICINITY AND RIGHT OF WAY

DESIGN ENG. BY: []
 DWN. BY/CKD. BY: []
 INV. NO.: []
 DATED: []
 SCALE: AS SHOWN

SIZE DRAWING NO. F
 SHEET 1/2

D. O. FILE NUMBER 109-36,488

AUGUST 1993 10:23:10 AM

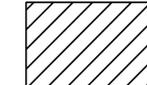
SAFETY ON THIS JOB DEPENDS ON YOU

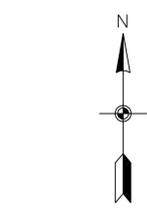
| REVISIONS | | | | | |
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| NO. | SYM. | ZONE | DESCRIPTION | DATE | APPROVED |
| 10 | A | | REVISED TO ACCOMPANY AMENDMENT 0003 | | |

NOTE:
TEMPORARY AND PERMANENT POWER, TELEPHONE, AND CABLE TV LINES WILL BE INSTALLED BY THEIR RESPECTIVE UTILITIES AS DESCRIBED IN THE SPECIFICATIONS.

- NOTES:**
1. THE LABEL 1 ON 3 INDICATES A SLOPE OF 1 VERTICAL ON 3 HORIZONTAL.
 2. THE DROP STRUCTURE AND CHANNEL INVERT ELEVATIONS ARE SHOWN ON DRAWINGS 3/1 THROUGH 3/3.
 3. THE DROP STRUCTURE DETAILS ARE SHOWN ON DRAWING 4/1.
 4. THE SURVEY LEGEND IS SHOWN ON DRAWING 2/1.
 5. THE DIRECTIONS FOR THE GABION LINED CHANNEL CHANNEL REACH ARE SHOWN ON DRAWING 2/1.
 6. CONTRACTOR MUST MAINTAIN ACCESS TO PARCELS 246 J AND 246 O AT ALL TIMES.
 7. STRUCTURES WITHIN PROJECT RIGHT-OF-WAY ARE TO BE REMOVED UNDER THIS CONTRACT. SEE SHEET 2/2 FOR TABLE WITH STRUCTURE DESCRIPTION. STRUCTURES ARE SHOWN ON SHEET 2/2 AND 2/3.

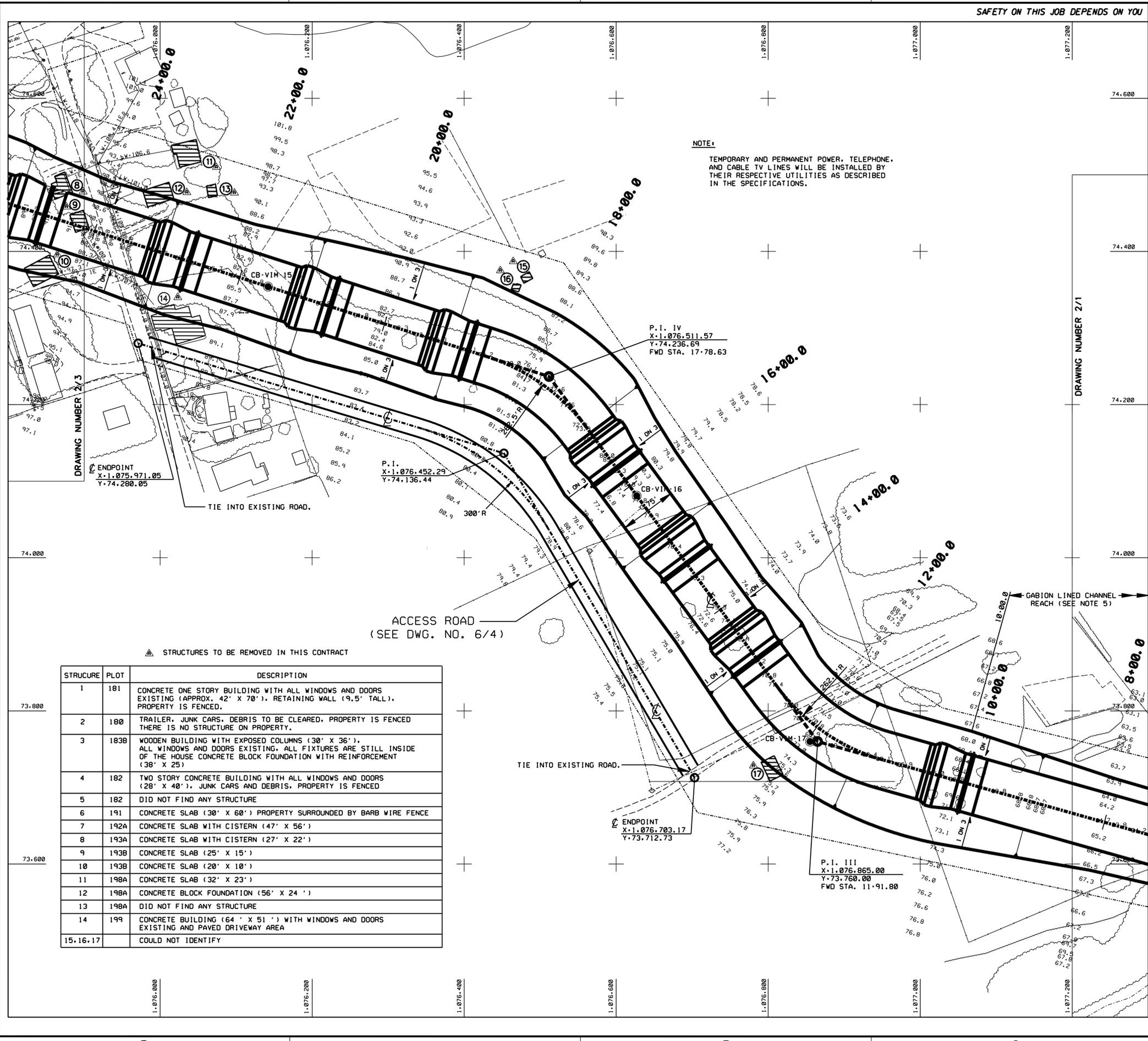
LEGEND

- CORE DRILL HOLE
-  GABION DROP STRUCTURE
-  STRUCTURES TO BE REMOVED



▲ STRUCTURES TO BE REMOVED IN THIS CONTRACT

| STRUCTURE | PLOT | DESCRIPTION |
|------------|------|---|
| 1 | 181 | CONCRETE ONE STORY BUILDING WITH ALL WINDOWS AND DOORS EXISTING (APPROX. 42' X 70'). RETAINING WALL (9.5' TALL). PROPERTY IS FENCED. |
| 2 | 180 | TRAILER, JUNK CARS, DEBRIS TO BE CLEARED. PROPERTY IS FENCED THERE IS NO STRUCTURE ON PROPERTY. |
| 3 | 183B | WOODEN BUILDING WITH EXPOSED COLUMNS (30' X 36'). ALL WINDOWS AND DOORS EXISTING. ALL FIXTURES ARE STILL INSIDE OF THE HOUSE CONCRETE BLOCK FOUNDATION WITH REINFORCEMENT (38' X 25') |
| 4 | 182 | TWO STORY CONCRETE BUILDING WITH ALL WINDOWS AND DOORS (28' X 40'). JUNK CARS AND DEBRIS. PROPERTY IS FENCED |
| 5 | 182 | DID NOT FIND ANY STRUCTURE |
| 6 | 191 | CONCRETE SLAB (30' X 60') PROPERTY SURROUNDED BY BARB WIRE FENCE |
| 7 | 192A | CONCRETE SLAB WITH CISTERN (47' X 56') |
| 8 | 193A | CONCRETE SLAB WITH CISTERN (27' X 22') |
| 9 | 193B | CONCRETE SLAB (25' X 15') |
| 10 | 193B | CONCRETE SLAB (20' X 10') |
| 11 | 198A | CONCRETE SLAB (32' X 23') |
| 12 | 198A | CONCRETE BLOCK FOUNDATION (56' X 24') |
| 13 | 198A | DID NOT FIND ANY STRUCTURE |
| 14 | 199 | CONCRETE BUILDING (64' X 51') WITH WINDOWS AND DOORS EXISTING AND PAVED DRIVEWAY AREA |
| 15, 16, 17 | | COULD NOT IDENTIFY |



AUSSENAMES REVISIONS SPECIFICATIONS SHEETS TIME SHEETS

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
ESTATE MON BLUOU
ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

CHANNEL
SITE PLAN

DESIGN ENG.:
OWN. BY: CKD. BY: INV. NO.:
DATED: DATED: AUGUST 1993 SHEET 2/2 OF

D. O. FILE NUMBER 109-36,488

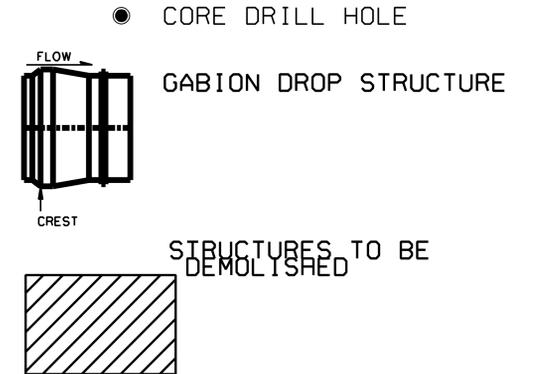
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NOTES:

1. THE LABEL 1 ON 3 INDICATES A SLOPE OF 1 VERTICAL ON 3 HORIZONTAL.
2. THE DROP STRUCTURE AND CHANNEL INVERT ELEVATIONS ARE SHOWN ON DRAWINGS 3/1 THROUGH 3/3.
3. THE DROP STRUCTURE DETAILS ARE SHOWN ON DRAWING 4/1.
4. THE CHANNEL BOTTOM WIDTH IS 82 FEET BETWEEN STATIONS 26+50 AND 30+00. THERE IS A 40-FOOT LONG TRANSITION TO A BOTTOM WIDTH OF 75 FEET AT EACH END OF THIS REACH.
5. THE SURVEY LEGEND IS SHOWN ON DRAWING 2/1.
6. SEE SHEET 2/2 FOR TABLE WITH STRUCTURE DESCRIPTION.

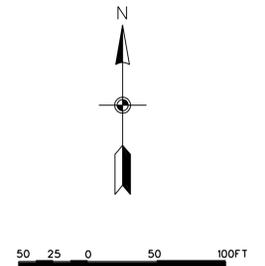
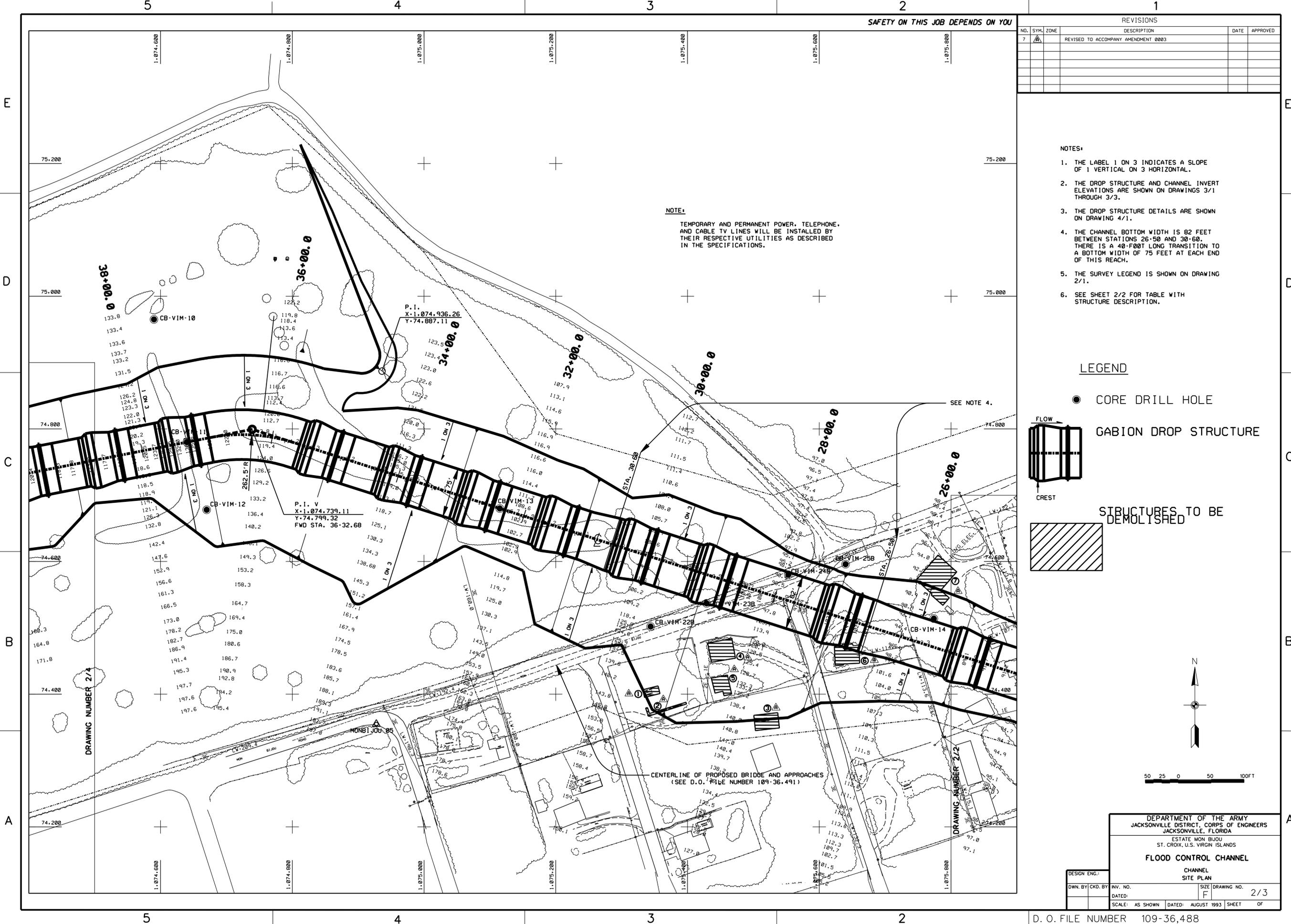
LEGEND



NOTE:

TEMPORARY AND PERMANENT POWER, TELEPHONE, AND CABLE TV LINES WILL BE INSTALLED BY THEIR RESPECTIVE UTILITIES AS DESCRIBED IN THE SPECIFICATIONS.

SEE NOTE 4.



DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BIJOU
 ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
 CHANNEL SITE PLAN

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| DESIGN ENG.: | INV. NO.: | SIZE: | DRAWING NO.: |
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REVISIONS

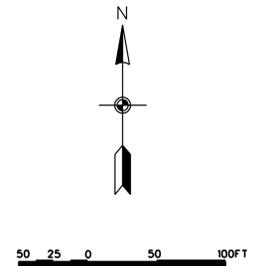
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NOTES:

1. THE LABEL 1 ON 3 INDICATES A SLOPE OF 1 VERTICAL ON 3 HORIZONTAL.
2. THE DROP STRUCTURE AND CHANNEL INVERT ELEVATIONS ARE SHOWN ON DRAWINGS 3/1 THROUGH 3/3.
3. THE DROP STRUCTURE DETAILS ARE SHOWN ON DRAWING 4/1.
4. THE DIVERSION LEVEE TOP ELEVATION SHALL BE AS SHOWN ON DRAWING 3/3 BETWEEN STATIONS 56+00 AND 64+65, TAPER TO 186.18 FEET, NGVD AT STATION 65+30, THEN TAPER TO 190 FEET, NGVD AS SHOWN. THE CHANNEL INVERT EXCLUDES DROP STRUCTURE CRESTS FOR THIS PURPOSE. SEE DRAWING NUMBERS 3/3 AND 4/1.
5. GABIONS AND FILTER CLOTH PLACED ON THE DIVERSION LEVEE SLOPE SHALL BE THE TYPE INDICATED IN THE SPECIFICATIONS. GABIONS SHALL MEASURE 12' X 3' X 1'.
6. GABIONS SHALL BE PLACED ON THE ENTIRE NORTH SLOPE OF THE DIVERSION LEVEE AND SOUTH SLOPE OF THE CHANNEL, UPSTREAM OF STATION 63+76; OTHERWISE, THEY SHALL BE PLACED AS INDICATED IN DRAWING 4/1.
7. THE SURVEY LEGEND IS SHOWN ON DRAWING 2/1.

LEGEND

-  CORE DRILL HOLE
 -  GABION BASKET REVETMENT
 -  GABION DROP STRUCTURE
- FLOW
- CREST



NOTE:
TEMPORARY AND PERMANENT POWER, TELEPHONE, AND CABLE TV LINES WILL BE INSTALLED BY THEIR RESPECTIVE UTILITIES AS DESCRIBED IN THE SPECIFICATIONS.

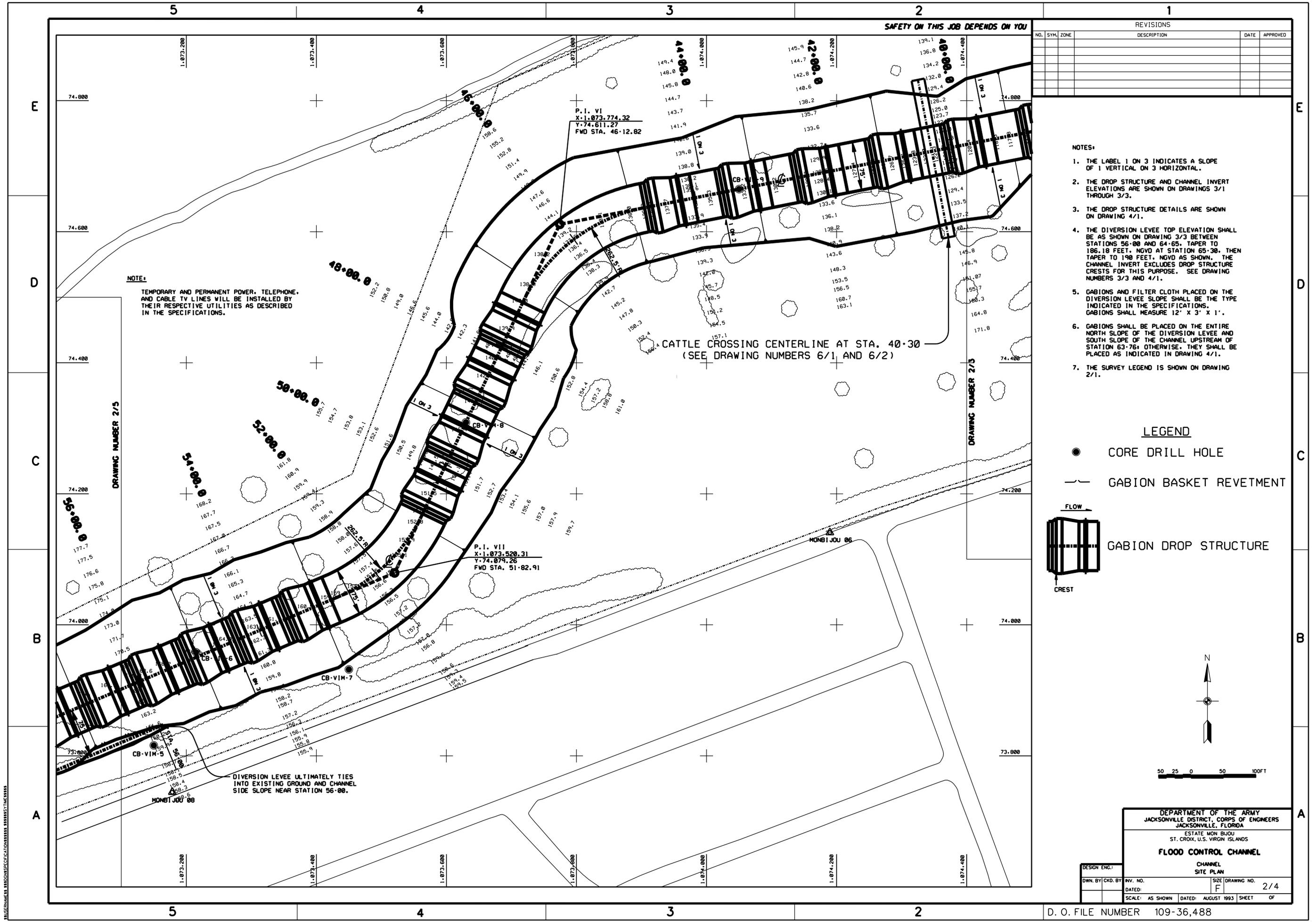
CATTLE CROSSING CENTERLINE AT STA. 40+30
(SEE DRAWING NUMBERS 6/1 AND 6/2)

DIVERSION LEVEE ULTIMATELY TIES INTO EXISTING GROUND AND CHANNEL SIDE SLOPE NEAR STATION 56+00.

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
ESTATE MON BUJOU
ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
CHANNEL SITE PLAN

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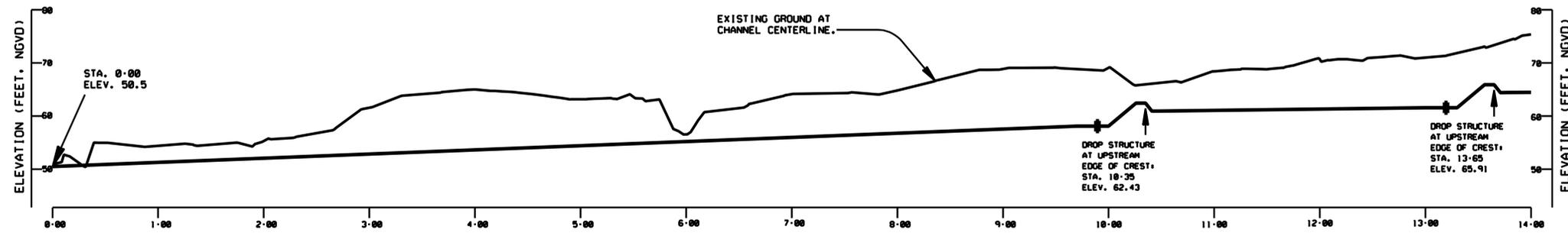
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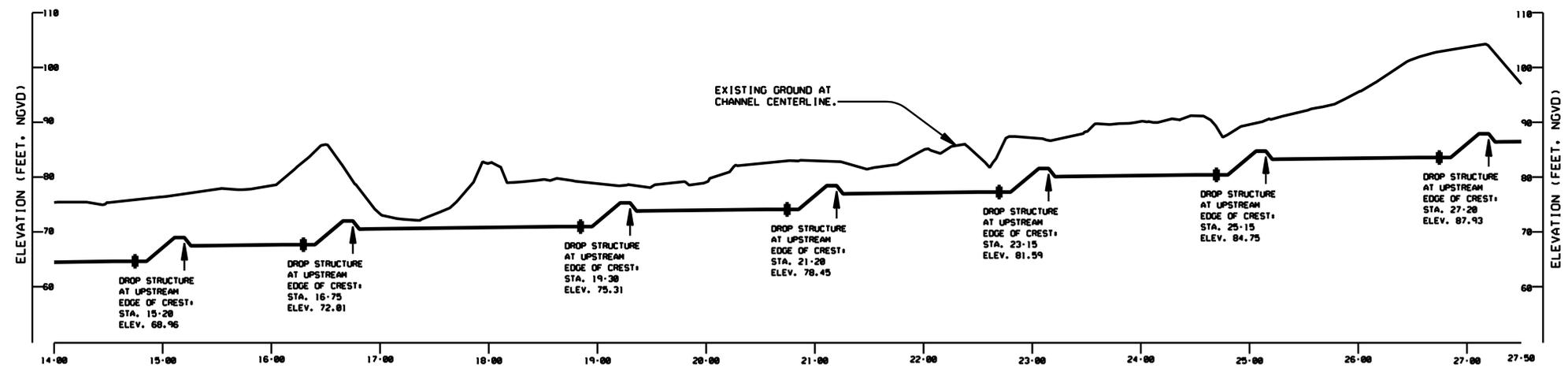
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STATIONS 0+00 THROUGH 14+00

SCALES: *A* HORIZONTAL
B VERTICAL

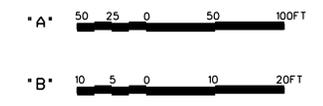
- NOTES:
1. THE CHANNEL BOTTOM SHALL SLOPE LINEARLY BETWEEN DROP STRUCTURES.
 2. THE DROP STRUCTURE DETAILS ARE SHOWN ON DRAWING 4/1.
 3. THE PLAN VIEW IS SHOWN ON DRAWINGS 2/1 THROUGH 2/5.



STATIONS 14+00 THROUGH 27+50

SCALES: *A* HORIZONTAL
B VERTICAL

GRAPHIC SCALES



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ESTATE MON BUJOU
ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

CHANNEL CENTERLINE PROFILE

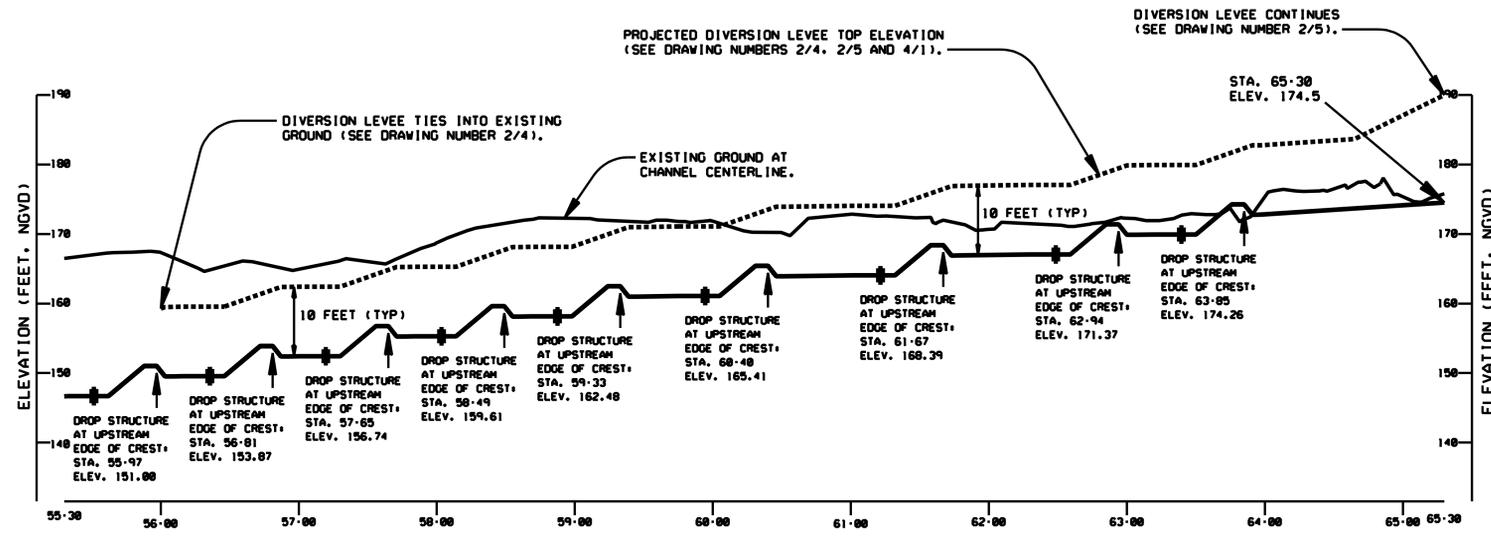
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D. O. FILE NUMBER 109-36,488

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STATIONS 55+30 THROUGH 65+30

SCALES: *A* HORIZONTAL
B VERTICAL

- NOTES:
1. THE CHANNEL BOTTOM SHALL SLOPE LINEARLY BETWEEN DROP STRUCTURES.
 2. THE DROP STRUCTURE DETAILS ARE SHOWN ON DRAWING 4/1.
 3. THE PLAN VIEW IS SHOWN ON DRAWINGS 2/1 THROUGH 2/5.

GRAPHIC SCALES



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA
ESTATE MON BUJOU
ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

CHANNEL CENTERLINE PROFILE

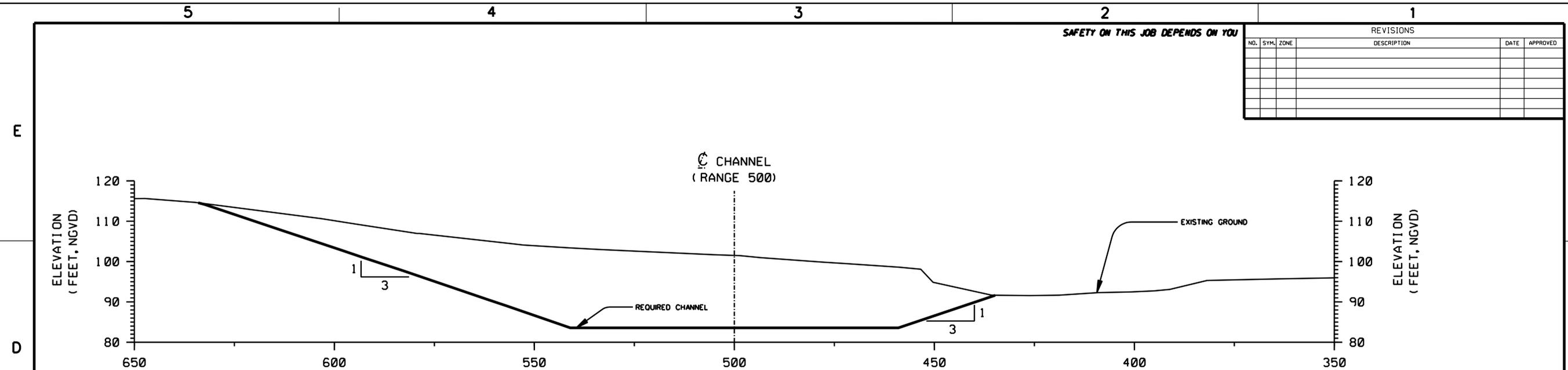
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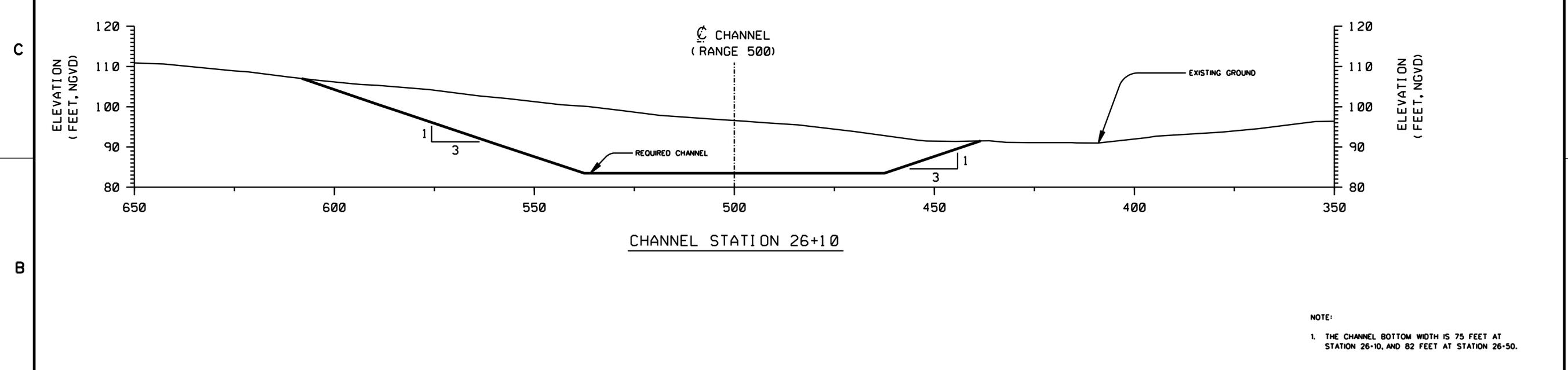
AUGUST 1993 109-36,488-3 OF 3

SAFETY ON THIS JOB DEPENDS ON YOU

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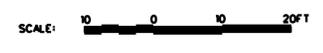


CHANNEL STATION 26+50



CHANNEL STATION 26+10

NOTE:
 1. THE CHANNEL BOTTOM WIDTH IS 75 FEET AT STATION 26+10, AND 82 FEET AT STATION 26+50.



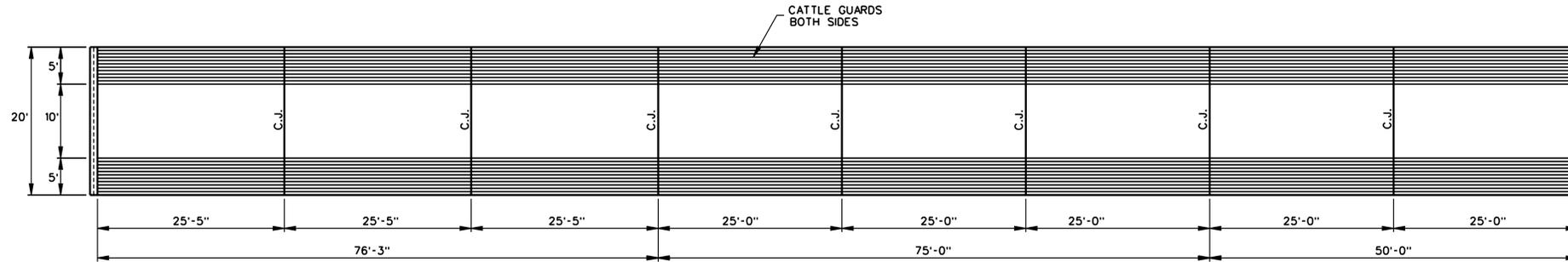
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| DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT, CORPS OF ENGINEERS JACKSONVILLE, FLORIDA ESTATE MON BUJOU ST. CROIX, U.S. VIRGIN ISLANDS FLOOD CONTROL CHANNEL TYPICAL SECTIONS CHANNEL SECTION TRANSITION | | | |
| DESIGN ENG.: | INV. NO.: | SIZE: | DRAWING NO.: |
| DWN. BY/CKD. BY: | DATED: | F | 5/3 |
| SCALE: AS SHOWN | DATED: AUGUST 1993 | SHEET | OF |

D. O. FILE NUMBER 109-36,488

AUGUST 1993 10:00 AM 10/11/93 11:11:11 AM

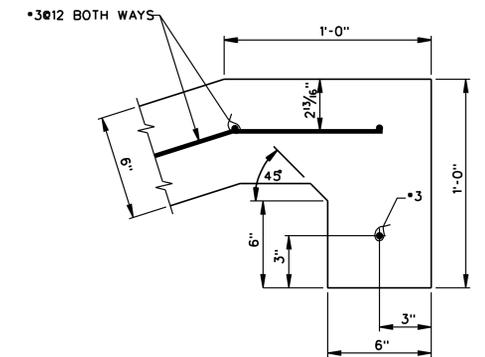
SAFETY ON THIS JOB
DEPENDS ON YOU

| REVISIONS | | | | | |
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CATTLE CROSSING - PLAN

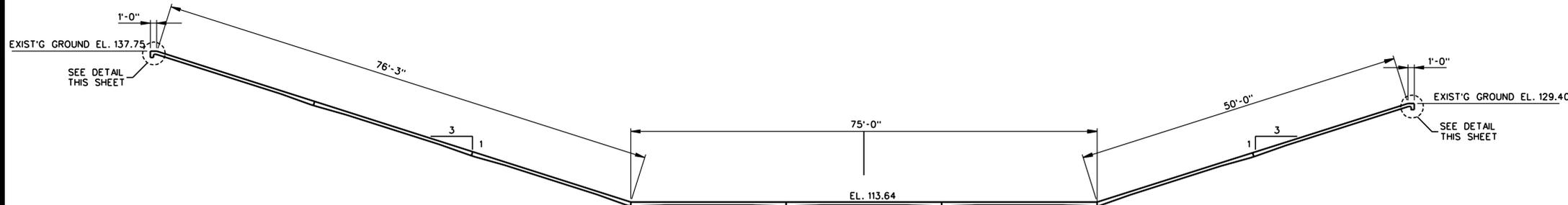
SCALE: "A"



TYPICAL END DETAIL

SCALE: "B"

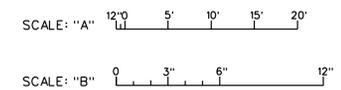
NOTE: SEE DRAWING 2/4 FOR LOCATION OF CATTLE CROSSING.



SECTION ALONG CENTERLINE OF CROSSING

SCALE: "A"

GRAPHIC SCALES:



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
JACKSONVILLE, FLORIDA

ESTATE MON BIJOU
ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

MISCELLANEOUS AND OPS ITEMS
CATTLE CROSSING PLAN AND SECTION

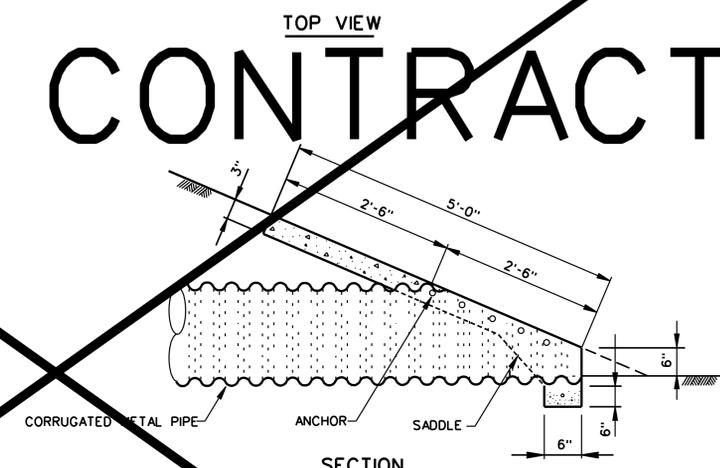
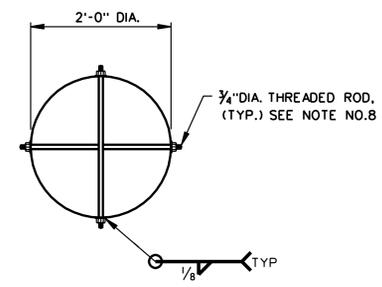
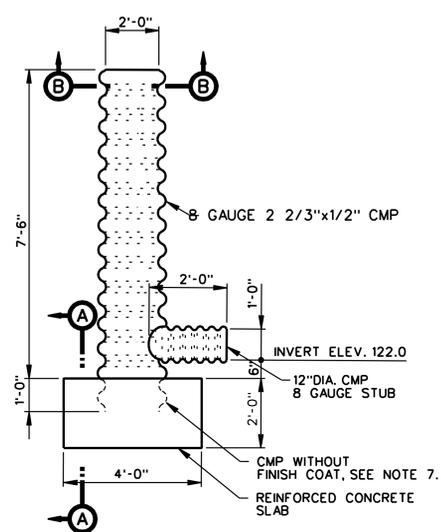
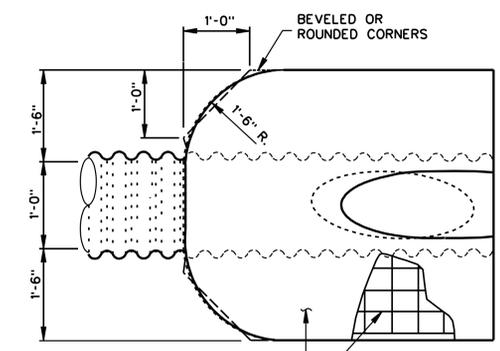
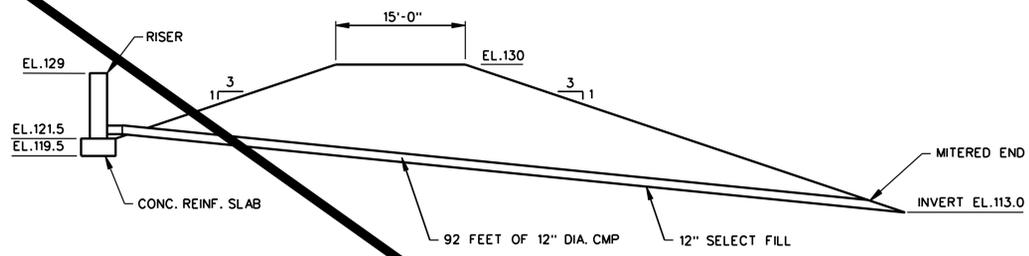
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| OWN. BY: CKD. BY: S.E.R. | DATED: | F | 6/1 |
| SCALE: AS SHOWN | DATED: AUGUST 1993 | SHEET | OF |

D.O. FILE NO. 109-36,488

AUGUST 1993 15:00 SPECIFICATION 151151 151151 TIME 151151

SAFETY ON THIS JOB
DEPENDS ON YOU

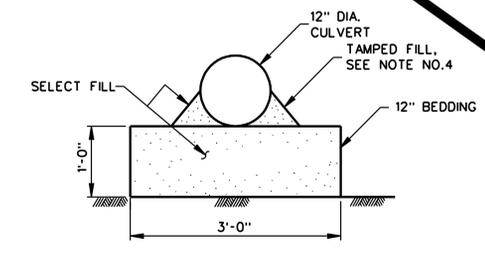
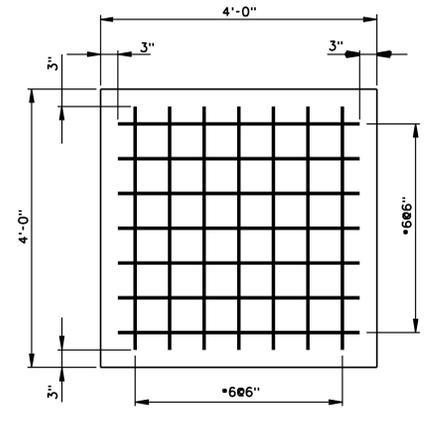
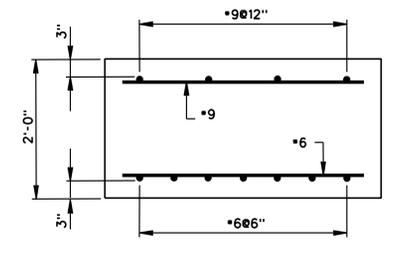
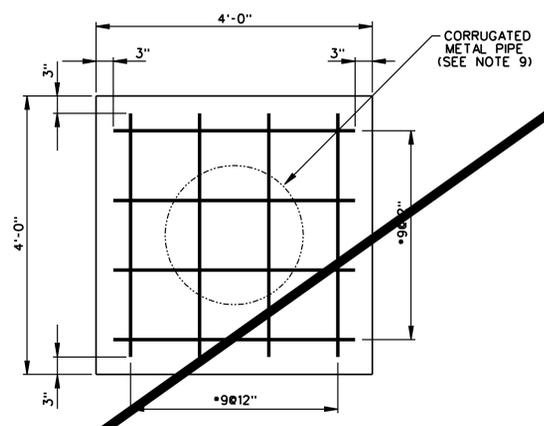
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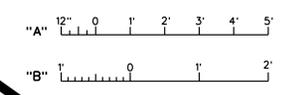
NOTES:

- FOR LOCATION OF RISER AND CULVERT SEE DRAWING NUMBER 2/3.
- CONCRETE 28 DAY STRENGTH FOR CAST-IN-PLACE BASE AND MITERED END SECTION SHALL BE 3000 P.S.I.
- REINFORCEMENT SHALL BE GRADE 60.
- 12 INCHES OF SELECT FILL SHALL BE USED AS BEDDING FOR THE CULVERT. FILL SHALL BE COMPACTED UNDER THE HAUNCHES OF THE CULVERT IN THE FIRST STAGES OF FILLING.
- CONNECTION BETWEEN THE 2' DIA. CMP AND 1' DIA. CMP SHALL BE AS RECOMMENDED BY THE MANUFACTURER, WELDED AND AS STRONG AS THE 2' DIA. CMP.
- CULVERT AND RISER PIPE AND CONNECTING BANDS MATERIAL SHALL CONFORM TO ASTM A 885, FABRICATED IN ACCORDANCE WITH AASHTO M 36, TYPE I, WITH A FINISH COATING CONFORMING TO AASHTO M 190, TYPE C. CULVERT AND RISER PIPE SHALL BE 8 GAUGE WITH 2 2/3"x1/2" CORRUGATIONS.
- RISER CMP EXTENDING INTO SLAB SHALL NOT HAVE FINISH COAT.
- THREADED ROD, NUTS, AND WASHERS FOR DEBRIS SCREEN SHALL BE HOT-DIPPED GALVANIZED.
- EIGHT HOLES, NO LARGER THAN 1.5" DIAMETER, SHALL BE DRILLED INTO THE EMBEDDED PORTION OF THE RISER CULVERT TO ALLOW INSTALLATION OF THE TOP REINFORCEMENT.

NOT IN CONTRACT



GRAPHIC SCALE

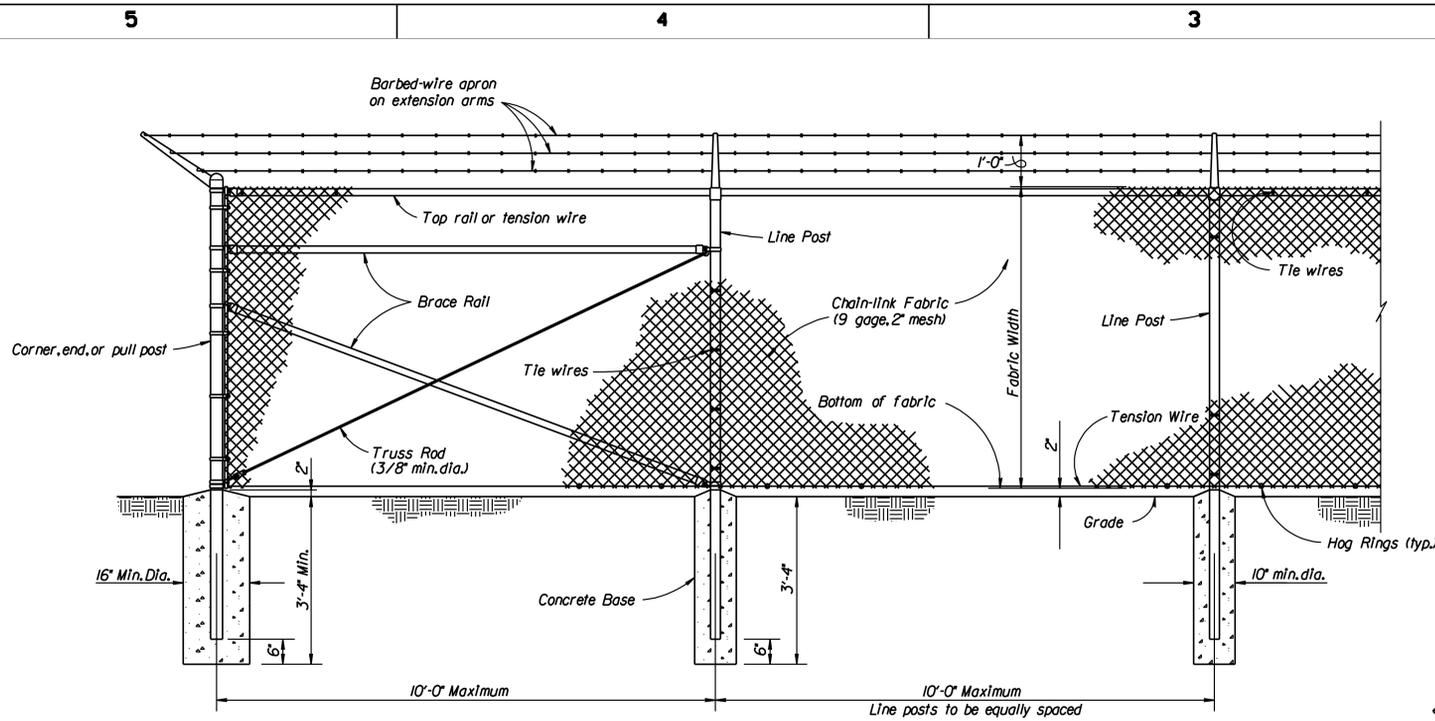


DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTABLISHED MONTELEONE ISLANDS
 ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
 MISCELLANEOUS AND OPERATIONAL SYSTEMS
 CULVERT AND RISER DETAILS

DESIGN ENG.: J.R.F.
 DWN. BY CKD. BY: []
 C.L.K. []
 INV. NO. []
 DATED: []
 SCALE: AS SHOWN
 SIZE: DRAWING NO. F 6/3
 SHEET [] OF []
 DATED: AUGUST 1993

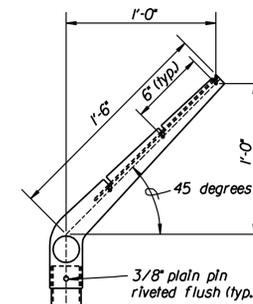
D.O. FILE NO. 109-36,488

REVISIONS: 1. 08/18/93 J.R.F. 12" DIA. CULVERT AND RISER DETAILS

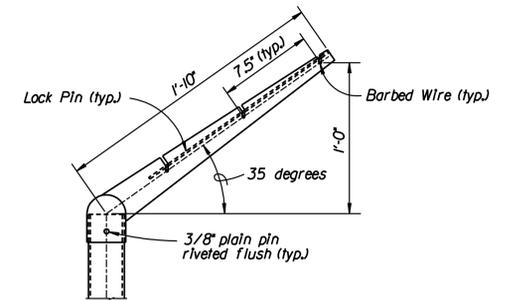


CHAIN-LINK SECURITY FENCE DETAIL

NO SCALE



LINE POST

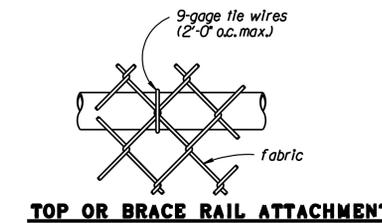


CORNER POST

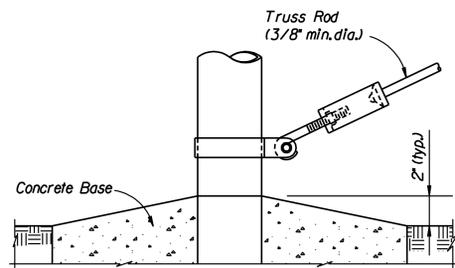
EXTENSION ARM DETAILS

NO SCALE

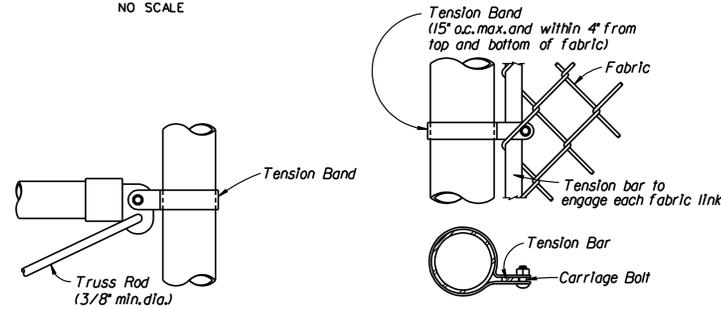
| USE AND SECTION | MINIMUM OUTSIDE DIMENSIONS (NOMINAL) | | |
|--------------------------------------|--------------------------------------|-------------------|-----------------|
| | FABRIC LESS THAN 72" | FABRIC 72" TO 96" | FABRIC OVER 96" |
| Corner, End & Pull Posts | | | |
| Tubular - Round | 2.375" O.D. | 2.875" O.D. | 4.00" O.D. |
| Tubular - Square | 2.00" SQ. | 2.50" SQ. | 3.00" SQ. |
| C-Section (Roll-Formed) | 3.50" x 3.50" | 3.50" x 3.50" | |
| Line Posts | | | |
| Tubular - Round | 1.90" O.D. | 2.375" O.D. | 2.875" O.D. |
| H-Section | 2.25" x 1.70" | 2.25" x 1.70" | 2.25" x 1.70" |
| C-Section (Roll-Formed) | 1.875" x 1.625" | 2.25" x 1.70" | |
| Top, Bottom & Brace Rails | | | |
| Tubular - Round | 1.66" O.D. | | |
| Tubular - Square | 1.50" O.D. | | |
| H-Section | 1.625" x 1.50" | | |
| C-Section (Roll-Formed) | 1.625" x 1.25" | | |



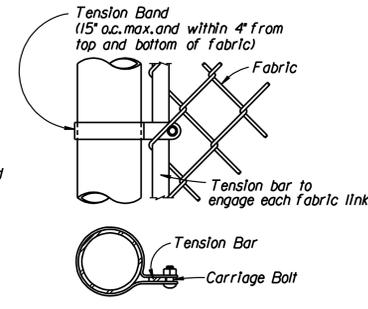
TOP OR BRACE RAIL ATTACHMENT



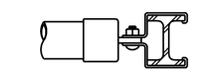
TRUSS ROD AND BAND



ROUND POST

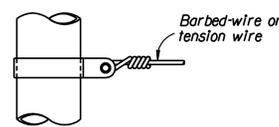


END OR GATE POST DETAIL

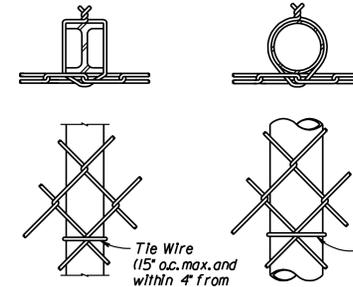


H-BEAM

BRACE RAIL CLAMP DETAILS



TENSION BAND DETAIL

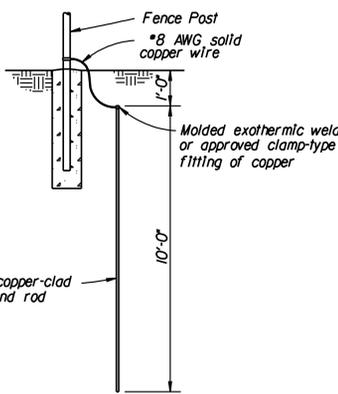


H-BEAM LINE POST ATTACHMENTS

ROUND POST

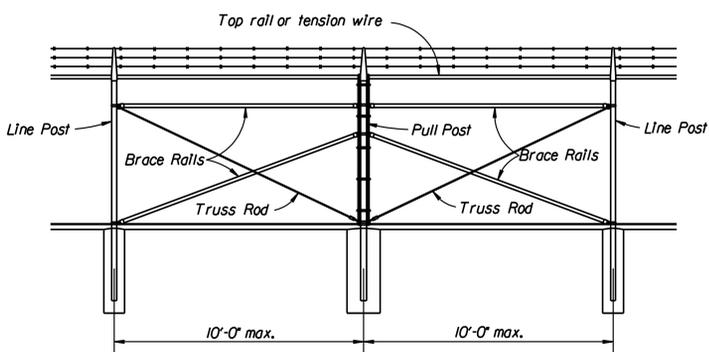
FASTENING DETAILS

NO SCALE



GROUNDING DETAIL

NO SCALE



BRACE PANEL DETAIL

NO SCALE

NOTE: Provide brace panel whenever straight runs exceed 500 feet.

NOTES:

- Details shown are to clarify requirements and are not intended to limit other types of fence sections and methods of installation.
- Wire ties, rails, posts, and braces shall be constructed on the secure side of the fence alignment. Chain-link fabric shall be placed on the opposite side of the secure area.
- Unless specifically shown or specified, all FE6 fence shall have apron extended outward from the area being protected.
- C-section posts shall be installed so that the void inside the post is completely filled with concrete up to the top of the foundation.

FENCE LEGEND:

- Type FE5 - Chain-Link Fence Without barbed-wire apron
- Type FE6 - Chain-Link Fence w/barbed-wire on single outrigger
- Type FE7 - Chain-Link Fence w/barbed-wire on double outrigger
- Type FE8 - Chain-Link Fence w/barbed-wire and barbed-tape on double outrigger
- TR - Fence with top rail and tension wire at bottom
- TBR - Fence with top and bottom rails
- TWB - Tension wire top and bottom
- TWBR - Fence with top tension wire and bottom rail
- Final number is fabric width in inches.

Examples:

- FE6-TR-72 - Chain-link security fence with barbed-wire on single outrigger, top rail, and 72 inch fabric width.
- FE5-TWB-48 - Chain-Link security fence with no apron, top and bottom tension wire, and 48 inch fabric width.

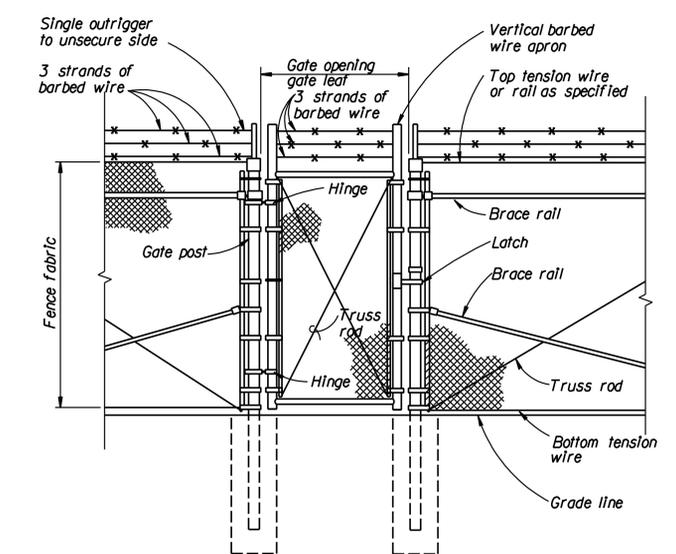
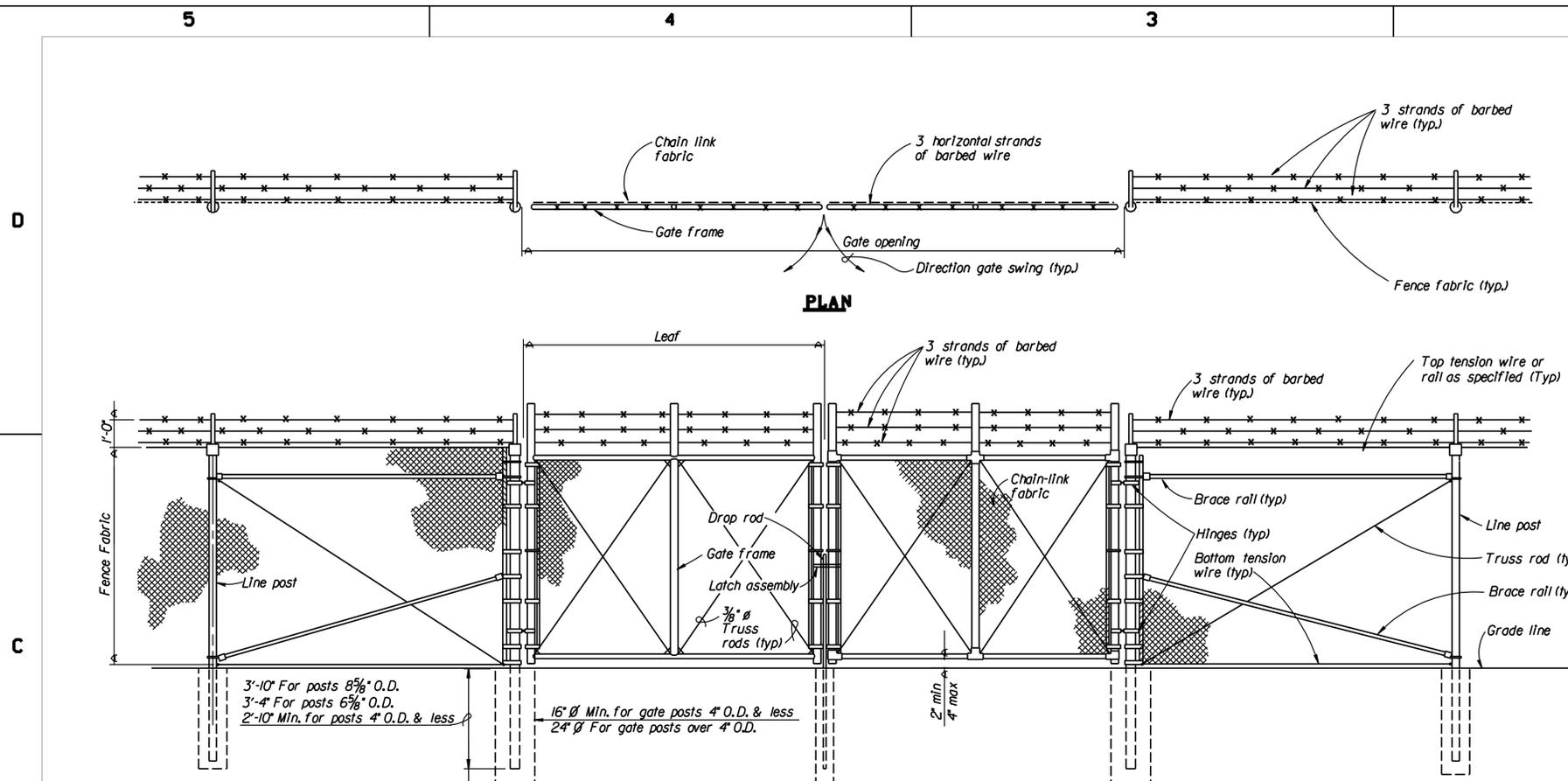
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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BUOU
 ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
 MISCELLANEOUS AND OPS ITEMS
 CHAIN LINK FENCE DETAILS

DESIGN ENG.:
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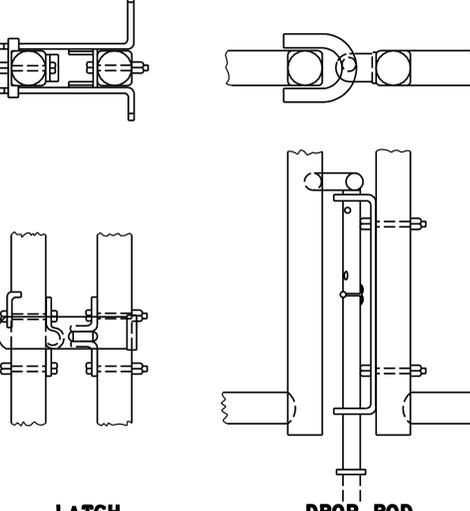
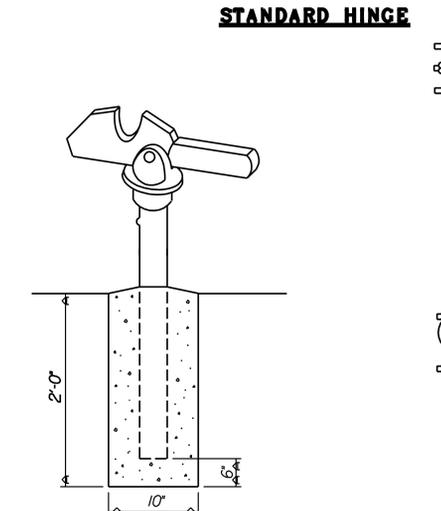
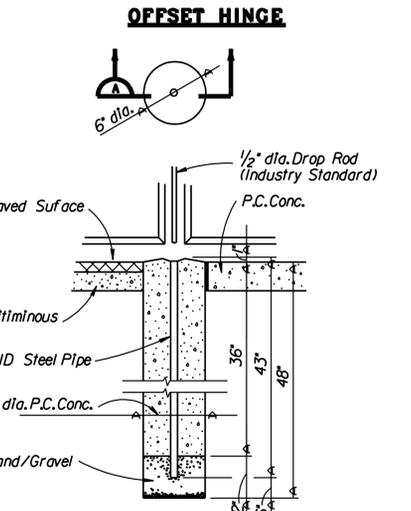
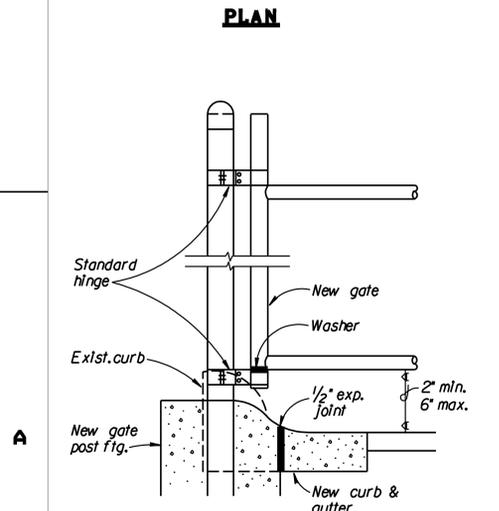
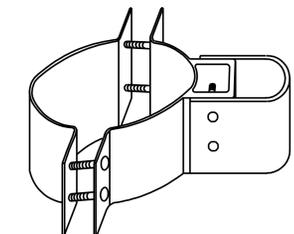
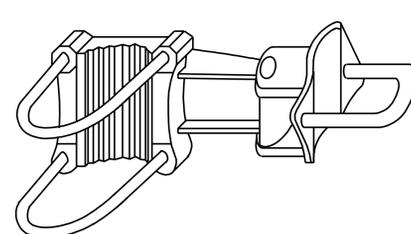
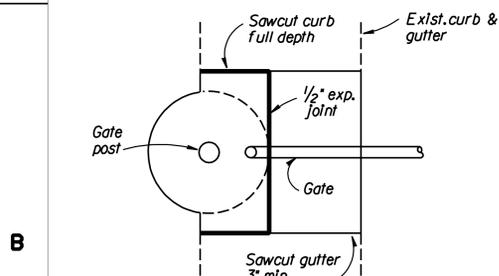
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D. O. FILE NUMBER 109-36,488



- NOTES:**
- Details shown are to clarify requirements and are not intended to limit other type of fence sections and methods of installation.
 - Swing Gates shall be constructed with drop rods, padlocks, latch assembly and gate keepers except as noted.
 - All gate frames shall be a minimum 1.90" nominal (round) or 2.00" nominal (square). Gate frames shall be of welded construction or shall be assembled using heavy fittings. At Contractor's option a welded horizontal brace may be used in lieu of truss rods to brace all welded gate frames. The Contractor shall be responsible for the proper rigid construction of all gates supplied.
 - Gates shall be designated as follows:
 Fence Type - FE5, FE6, etc.
 Fence Height - Inches
 Type Opening - SO (single)
 - DO (double)
 Hinge - RA (standard)
 - HO (offset)
 Opening - Feet (clear opening between gate posts)
 EXAMPLES: FE6-84-DO-RA-24
 FE5-48-SO-HO-6

| GATE POST SCHEDULE | |
|---------------------------|-----------------------------|
| GATE LEAF WIDTH (NOMINAL) | OUTSIDE DIMENSION (NOMINAL) |
| 6' or less | 2.875" OD 2.5" SQ |
| More than 6' to 13' | 4.0" OD |
| More than 13' to 18' | 6.625" OD |
| More than 18' | 8.625" OD |



- THINK VALUE ENGINEERING -

| REVISIONS | | | |
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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BUJOU
 ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

MISCELLANEOUS AND OPS ITEMS
 CHAIN LINK GATE DETAILS

DESIGN ENG.:
 DWN. BY CKD. BY INV. NO. SIZE DRAWING NO. 6/7
 DATED: F
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D. O. FILE NUMBER 109-36,488

SAFETY ON THIS JOB DEPENDS ON YOU

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NOTES:

1. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR WATER LINE RELOCATION PRIOR TO INITIATING CONSTRUCTION.
2. SEE DRAWING NUMBERS 2/2 AND 2/3 FOR DETAILED SITE INFORMATION.
3. NEW WATER SYSTEM SHALL BE IN SERVICE PRIOR TO TERMINATING EXISTING LINES.
4. THRUST RESTRAINTS SHALL BE INSTALLED AT ALL CHANGES IN PIPE DIRECTION.
5. SEE SPECIFICATIONS FOR WATER LINE RELOCATION REQUIREMENTS.
6. EXISTING UTILITY LOCATIONS ARE BASED UPON THE BEST AVAILABLE INFORMATION.
7. SEE DRAWING NUMBER 6/11 FOR ALL WATER LINE DETAILS.
8. WATER SUPPLY LINE FOR DAIRY CATTLE. CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS IF WATERLINE OR WAPPA WATER METER IS DISTURBED OR DAMAGED.
9. WATER LINE DEPTH OF COVER SHALL SATISFY UTILITY COMPANY DESIGN STANDARDS. ROAD SHOULDERS AND CROSSINGS SHALL HAVE SUFFICIENT MATERIAL COVER TO WITHSTAND VEHICULAR TRAFFIC OR BE PROTECTED WITH CASING PIPE.

LEGEND

- EXISTING WATER LINE (TO REMOVE)
- EXISTING WATER LINE (TO REMAIN)
- NEW WATER LINE



50 25 0 50 100FT

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BUQU
 ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
 MISCELLANEOUS AND OPS ITEMS
 WATER LINE RELOCATIONS

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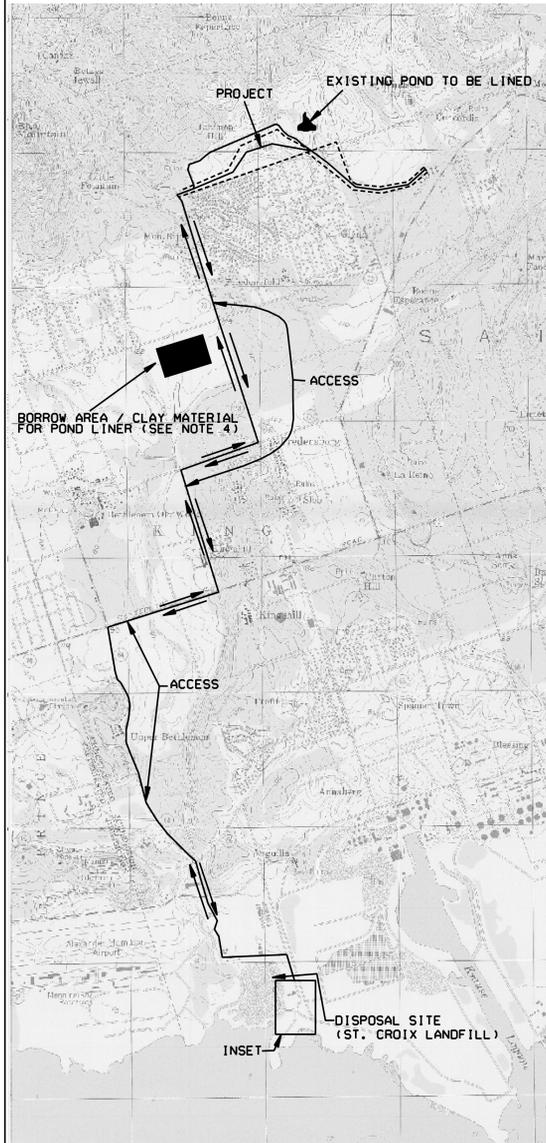
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REVISIONS

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ST. CROIX

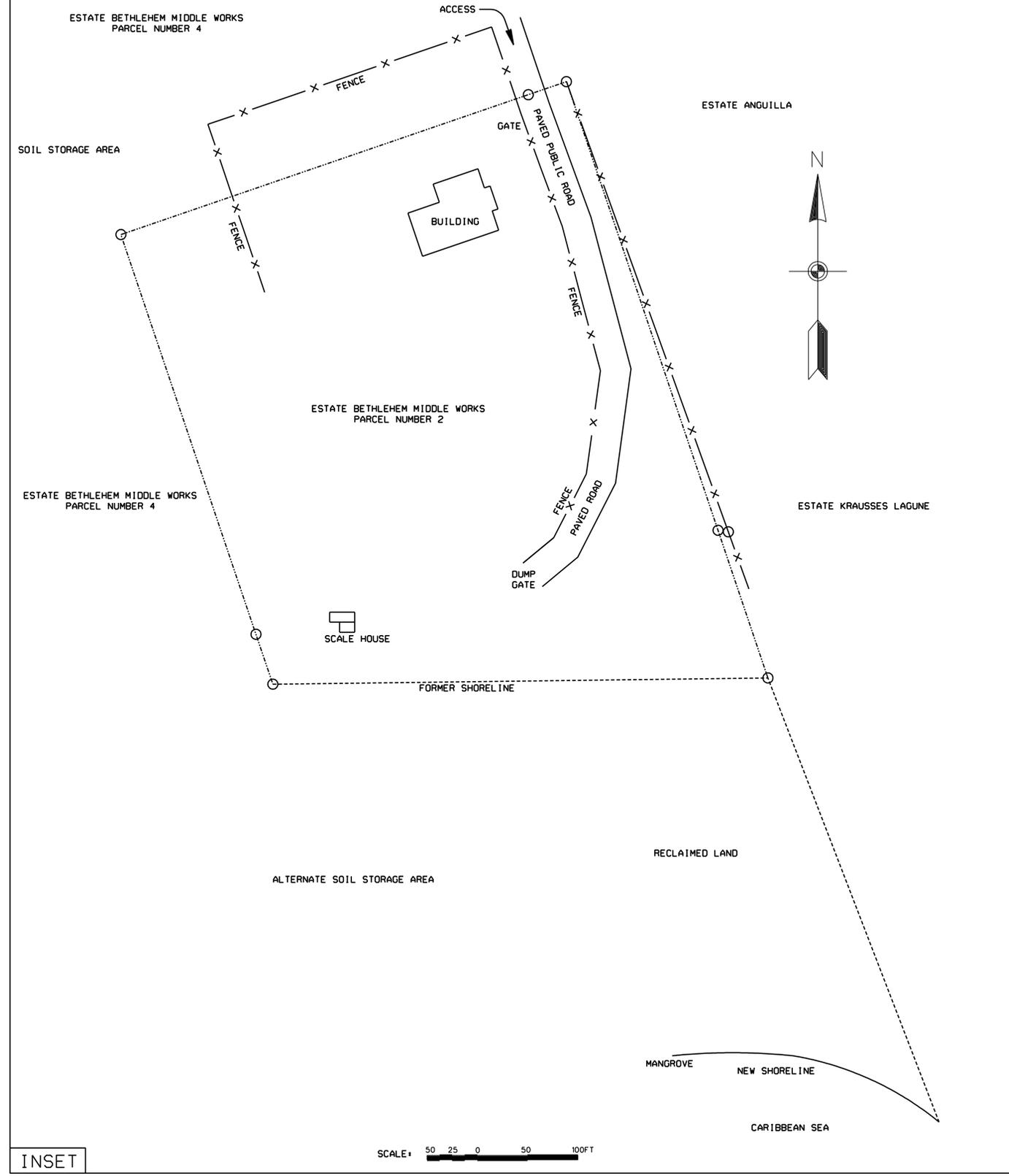


SCALE: 2000 1000 0 2000 4000FT

ACCESS TO LANDFILL



ST. CROIX LANDFILL ENTRANCE



SCALE: 50 25 0 50 100FT



NOTES:

1. ALL SPOIL, VEGETATION AND TRASH WILL BE HAULED TO THE ST. CROIX LANDFILL FOR DISPOSAL.
2. THE EXACT LOCATION OF DISPOSAL WITHIN THE LANDFILL WILL BE PROVIDED BY THE OPERATOR AS DESCRIBED IN THE SPECIFICATIONS.
3. SEE SPECIFICATIONS FOR ADDITIONAL DISPOSAL REQUIREMENTS.
4. EXACT LOCATION/DIMENSIONS OF CLAY BORROW AREA TO BE COORDINATED WITH COMMISSIONER OF PUBLIC WORKS.
5. TOP SOIL FROM BORROW AREA TO BE STOCKPILED. EXCAVATED MATERIAL FROM FLOOD CONTROL CHANNEL TO BE USED TO REPLACE MATERIAL FROM BORROW SITE AND TOP SOIL REPLACED. GRADE TO MATCH EXISTING ELEVATIONS AND SEED WITH GRASS.
6. THERE ARE NO CHARGES OR FEES FOR USING THE LANDFILL.
7. CONTRACTOR WILL BE REQUIRED TO STACK/STOCKPILE MATERIAL DUE TO LIMITED STORAGE AREA. EQUIPMENT TO STACK/STOCKPILE MATERIAL WILL BE REQUIRED.

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BUOU
 ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

DISPOSAL AREA
 DISPOSAL SITE AND ACCESS

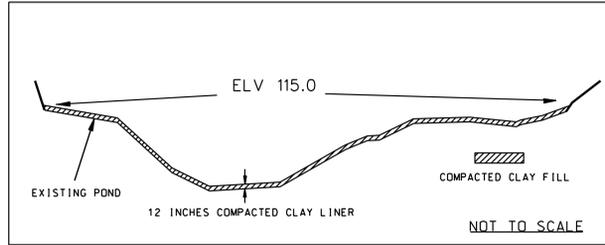
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D. O. FILE NUMBER 109-36,488

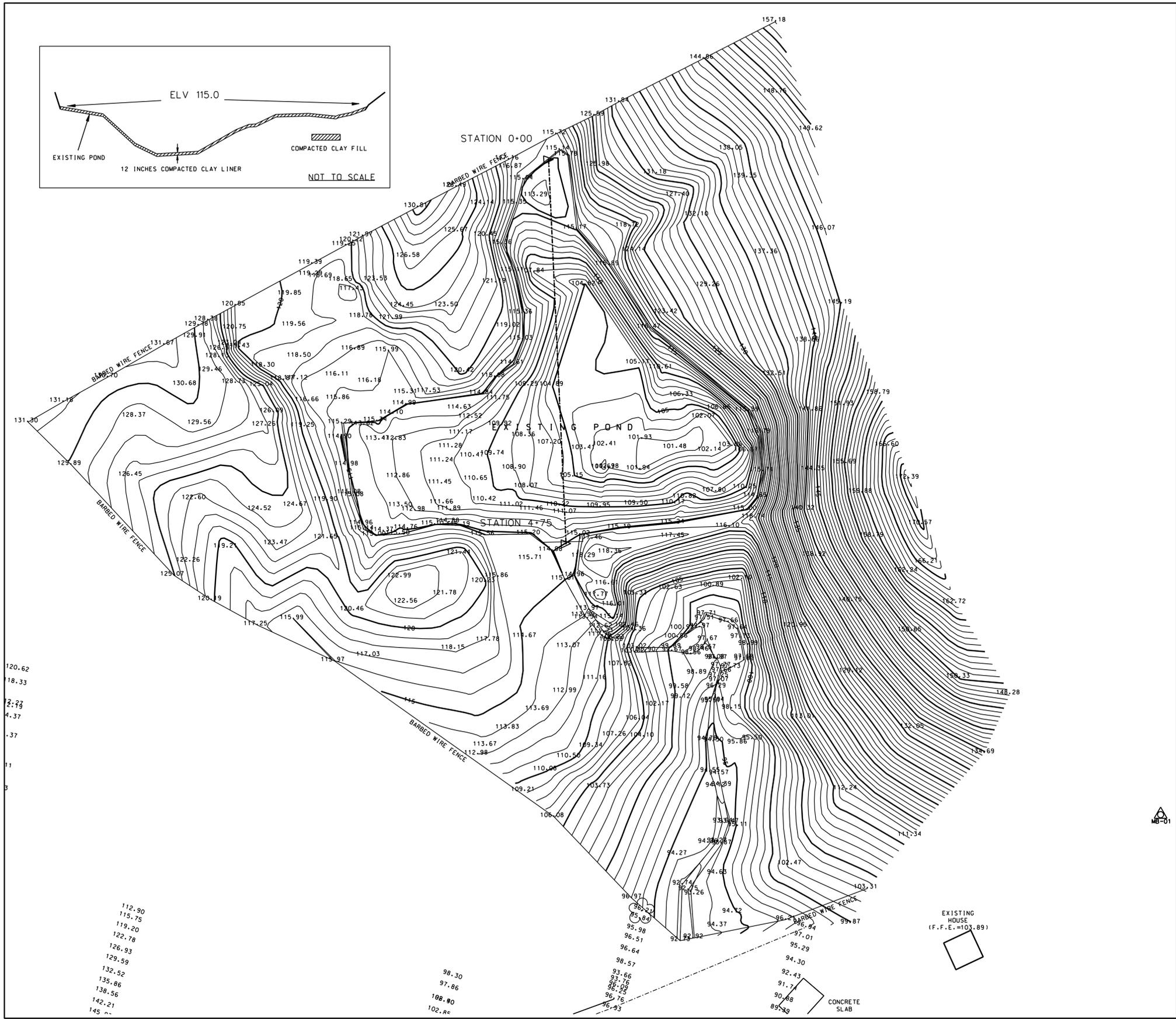
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SAFETY ON THIS JOB DEPENDS ON YOU

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NOTE: CLAY LINER IS TO BE PLACED IN THE DRY. IRRIGATION PUMPS MAY BE REQUIRED TO REMOVE WATER FROM POND WHILE CLAY LINER IS BEING PLACED.



DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ESTATE MON BUQU
 ST. CROIX, U.S. VIRGIN ISLANDS
FLOOD CONTROL CHANNEL
 EXISTING POND LAYOUT

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| DESIGN ENG.: | SIZE | DRAWING NO. |
| DWN. BY/CKD. BY: | INV. NO. | F |
| DATED: | SCALE: | AS SHOWN |
| DATED: | DATE: | JANUARY 2004 |
| SHEET | OF | 8/1 |

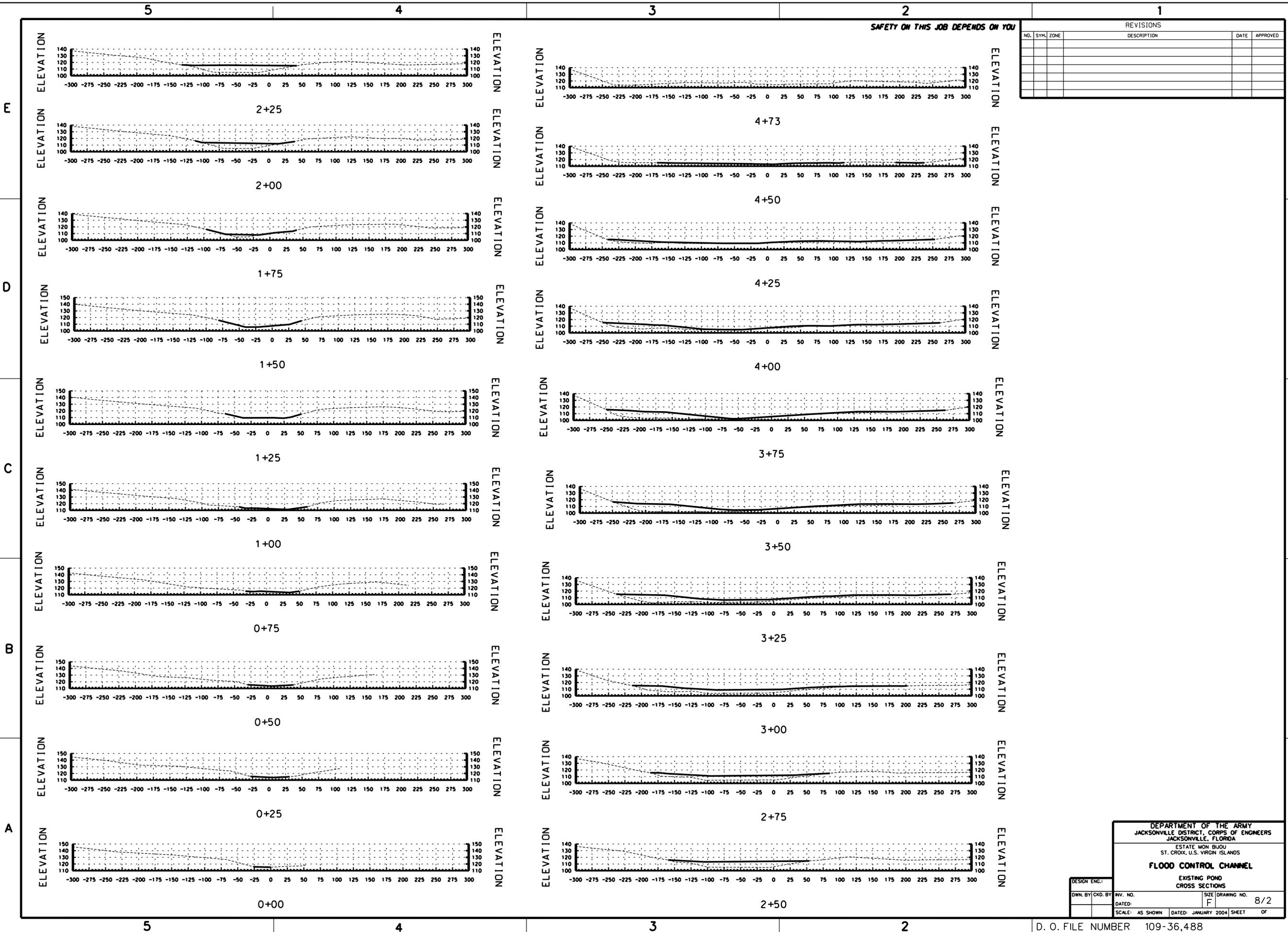
D. O. FILE NUMBER 109-36,488

AUGUST 11 2004 08:29:49 AM

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS

| NO. | SYM. | ZONE | DESCRIPTION | DATE | APPROVED |
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DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA

ESTATE MON BIJOU
 ST. CROIX, U.S. VIRGIN ISLANDS

FLOOD CONTROL CHANNEL

EXISTING POND
 CROSS SECTIONS

DESIGN ENG.:

DWN. BY: CKD. BY: INV. NO. DATE: SCALE: AS SHOWN

SIZE: F

DATED: JANUARY 2004

DRAWING NO. 8/2

SHEET OF

D. O. FILE NUMBER 109-36,488

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