

VICINITY MAP

1,000 500 0 1,000 2,000

(SCALE IN FEET)

PREPARED BY:



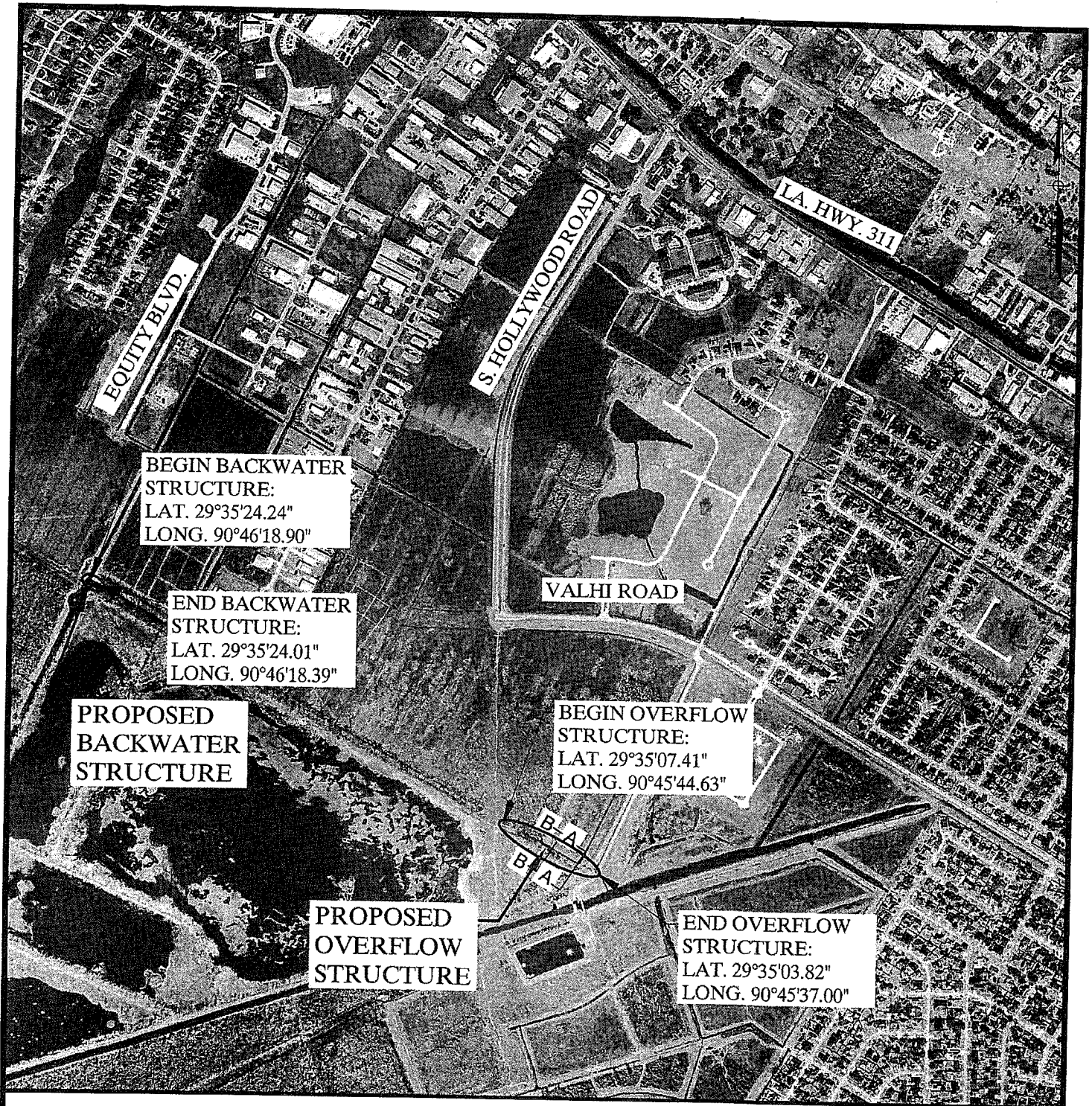
PROVIDENCE / GSE
GSE ASSOCIATES, LLC
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

**HYDRAULIC WATERSHED ANALYSIS
(SOUTHDOWN/SUMMERFIELD WATERSHEDS)
LOCATED IN SECTIONS 82 AND 85
TOWNSHIP 17S, RANGE 17E
TERREBONNE PARISH, LOUISIANA**

REV1: JUNE 13, 2011

GSE PROJECT NO. 441-041-GSE


SHEET 1 OF 7



VICINITY MAP



(SCALE IN FEET)

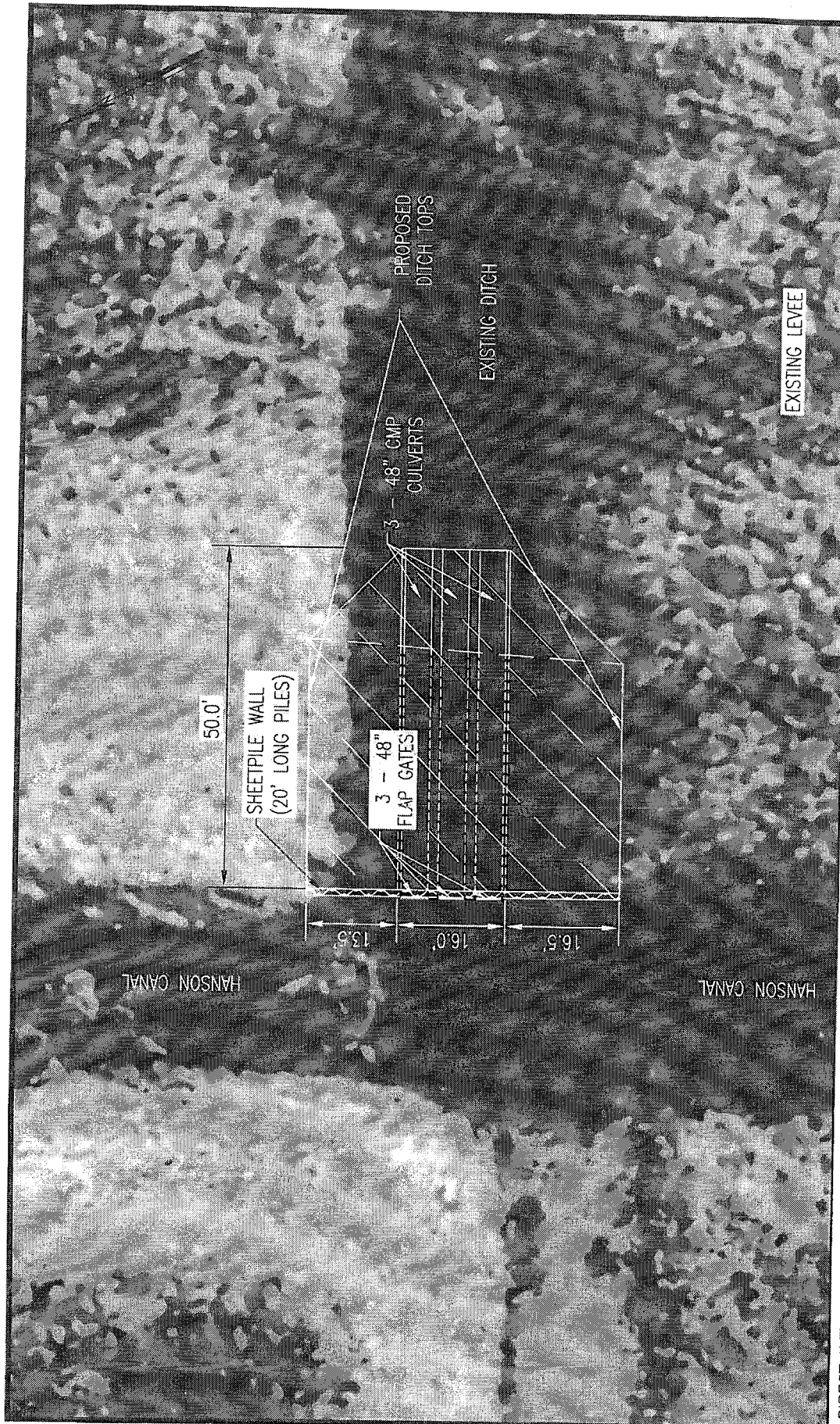
PREPARED BY:  PROVIDENCE / GSE
GSE ASSOCIATES, LLC
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

**HYDRAULIC WATERSHED ANALYSIS
(SOUTHDOWN/SUMMERFIELD WATERSHEDS)
LOCATED IN SECTIONS 82 AND 85
TOWNSHIP 17S, RANGE 17E
TERREBONNE PARISH, LOUISIANA**

REV1: JUNE 13, 2011

GSE PROJECT NO. 441-041-GSE

SHEET 2 OF 7



DIRECT WETLAND IMPACTS: 0.05 AC

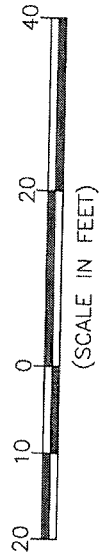
FILL AREA (244 CU. YD.)

BACKWATER STRUCTURE PLAN VIEW

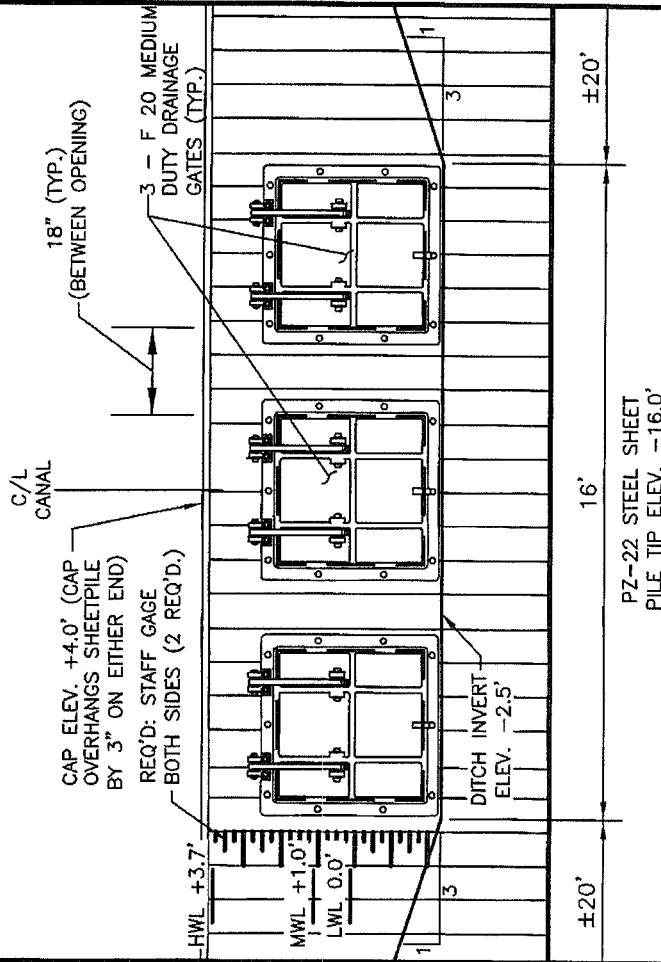
PREPARED BY: **G** PROVIDENCE / GSE
 GSE ASSOCIATES, LLC
 ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

REV1: JUNE 13, 2011

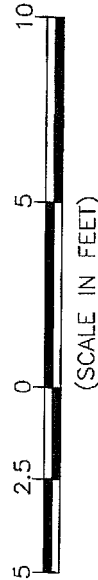
GSE PROJECT NO. 441-041-GSE



HYDRAULIC WATERSHED ANALYSIS
 (SOUTHDOWN/SUMMERFIELD WATERSHEDS)
 LOCATED IN SECTIONS 82 AND 85
 TOWNSHIP 17S, RANGE 17E
 TERREBONNE PARISH, LOUISIANA



LOOKING UPSTREAM



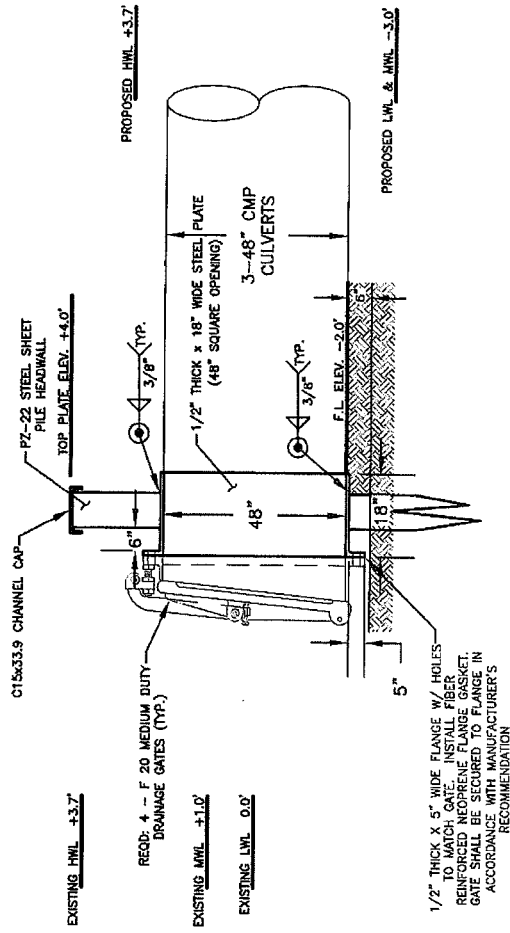
NOTE: THE LEVELS ON THE WEST OR OUTSIDE OF THE GATE WILL REMAIN AT EXISTING LEVELS, WHILE THE LEVELS EAST OR INSIDE WILL BE DEPENDENT ON THE FORCED DRAINAGE SYSTEM.

PREPARED BY: **S** PROVIDENCE / GSE
 GSE ASSOCIATES, LLC
 ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

REV1: JUNE 13, 2011

GSE PROJECT NO. 441-041-GSE

SHEET 4 OF 7

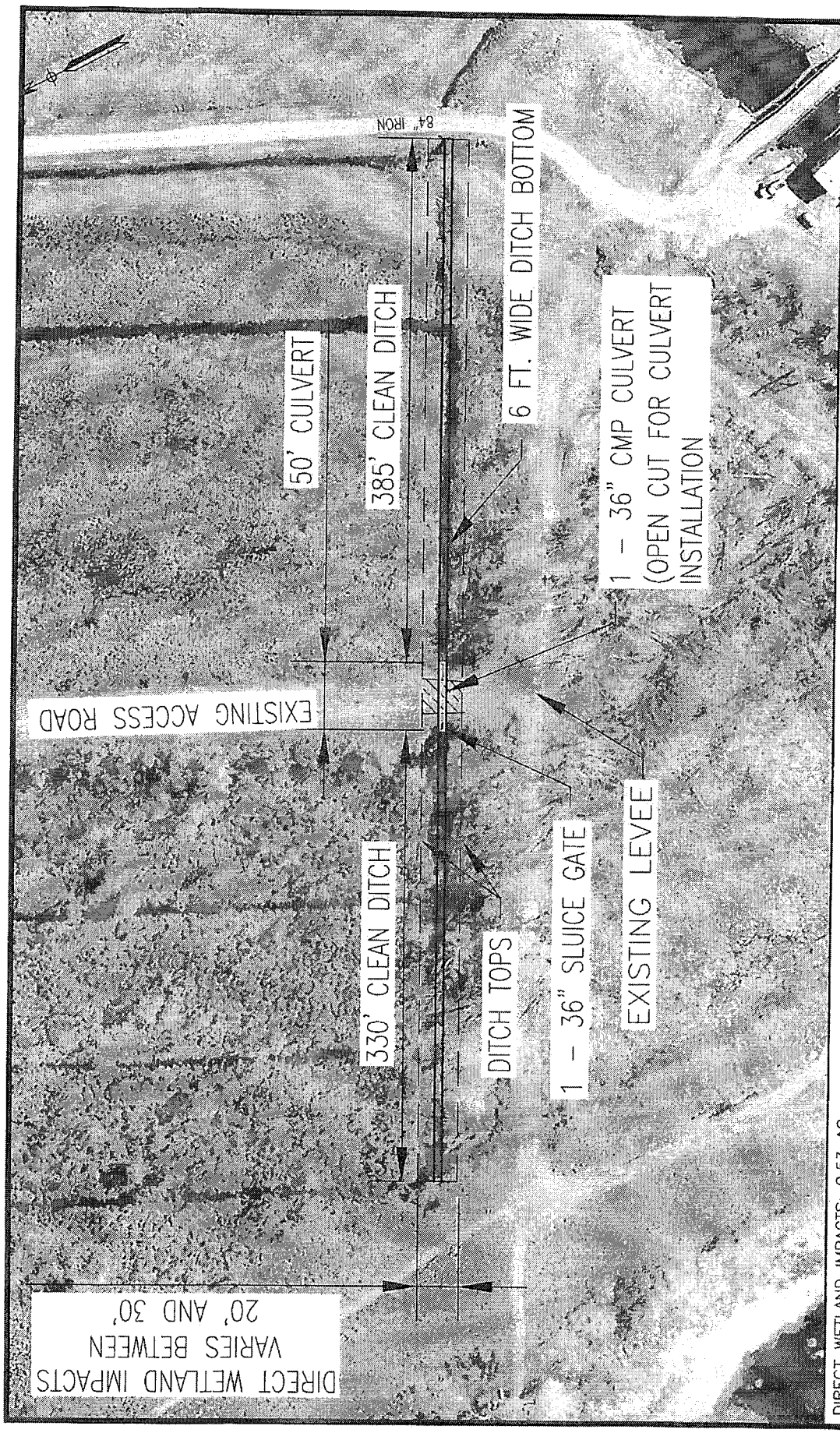


PROFILE THROUGH GATE



BACKWATER STRUCTURE

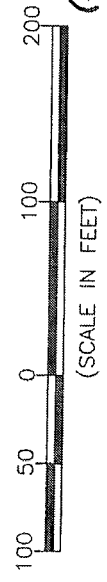
HYDRAULIC WATERSHED ANALYSIS
 (SOUTHDOWN/SUMMERFIELD WATERSHEDS)
 LOCATED IN SECTIONS 82 AND 85
 TOWNSHIP 17S, RANGE 17E
 TERREBONNE PARISH, LOUISIANA



DIRECT WETLAND IMPACTS: 0.53 AC

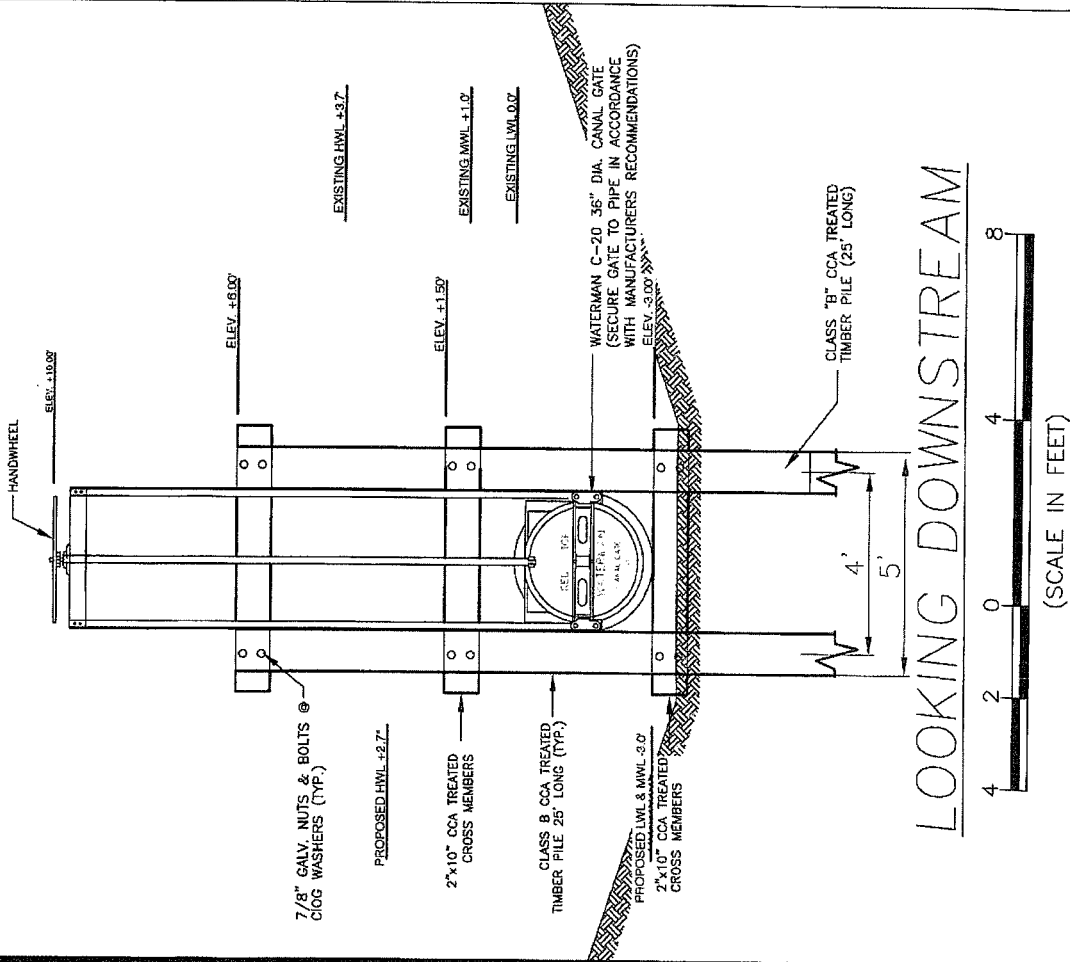
CUT AND FILL QUANTITY
(56 CU. YD.)

OVERFLOW STRUCTURE PLAN VIEW



PREPARED BY: **G** PROVIDENCE / GSE
GSE ASSOCIATES, LLC
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

HYDRAULIC WATERSHED ANALYSIS
(SOUTHDOWN/SUMMERFIELD WATERSHEDS)
LOCATED IN SECTIONS 82 AND 85
TOWNSHIP 17S, RANGE 17E
TERREBONNE PARISH, LOUISIANA



LOOKING DOWNSTREAM



7/8" GALV. NUTS & BOLTS @
CLOG WASHERS (TYP.)

PROPOSED HWL +2.7'

2"x10" CCA TREATED
CROSS MEMBERS

CLASS B CCA TREATED
TIMBER PILE 25' LONG (TYP.)

PROPOSED LWL & MWL -3.0'

2"x10" CCA TREATED
CROSS MEMBERS

WATERMAN C-20 36" DIA. CANAL GATE
(SECURE GATE TO PIPE IN ACCORDANCE
WITH MANUFACTURERS RECOMMENDATIONS)
ELEV. -3.00'

CLASS "B" CCA TREATED
TIMBER PILE (25' LONG)

EXISTING HWL +3.7'

EXISTING MWL +1.0'

EXISTING LWL 0.0'

ELEV. +8.00'

ELEV. +1.50'

ELEV. -3.00'

PROFILE THROUGH GATE



PROPOSED HWL +2.7'

EXISTING HWL +3.7'

EXISTING MWL +1.0'

EXISTING LWL 0.0'

WATERMAN C-20 36" DIA. CANAL GATE
(SECURE GATE TO PIPE IN ACCORDANCE
WITH MANUFACTURERS RECOMMENDATIONS)

PROPOSED LWL & MWL -3.0'

ELEV. -3.50'

7/8" GALV. NUTS & BOLTS @
CLOG WASHERS (TYP.)

2"x10" CCA TREATED
CROSS MEMBERS

CLASS "B" CCA TREATED
TIMBER PILE (25' LONG)

NOTE: DUE TO THIS SECTION OF THE PROJECT
ENTERING A FORCED DRAINAGE SYSTEM, THE MEAN
AND LOW WATER LEVELS WILL BE THE SAME.

OVERFLOW STRUCTURE

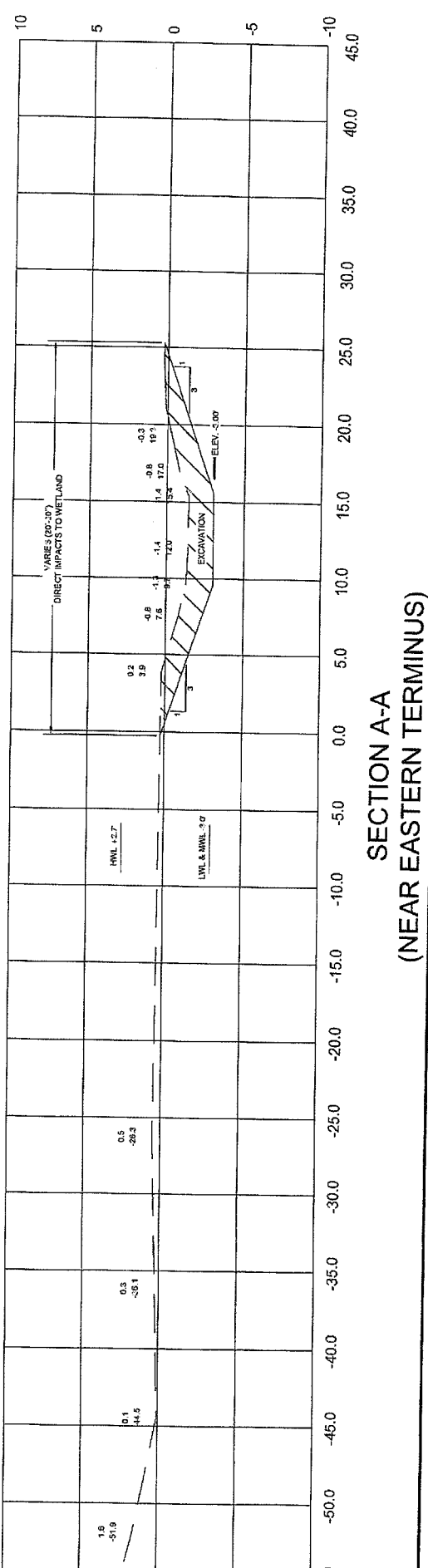
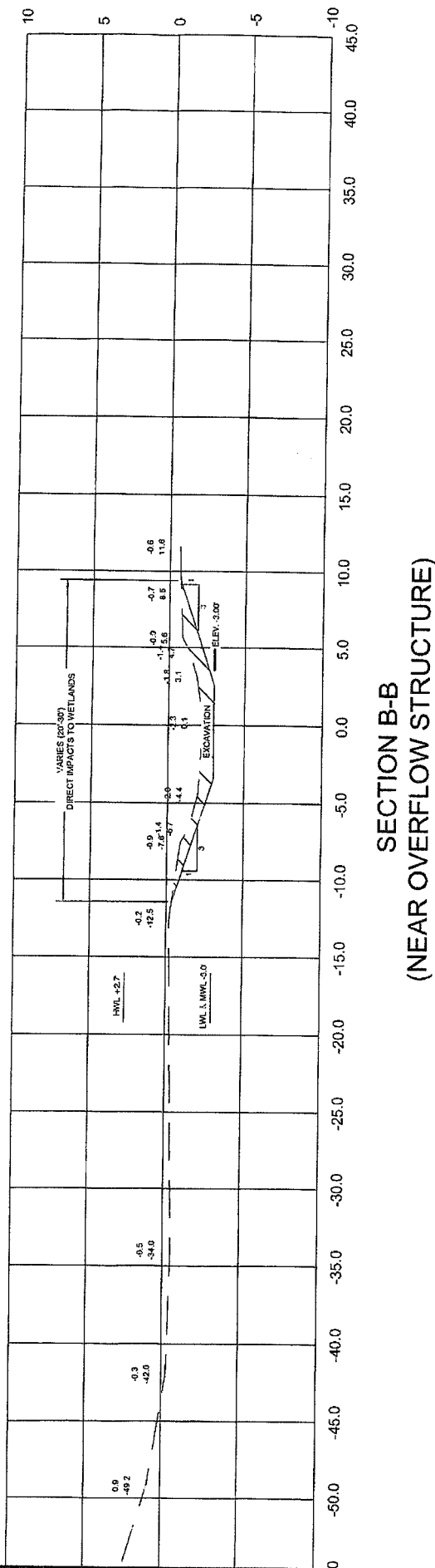
PREPARED BY: **S** PROVIDENCE / GSE
GSE ASSOCIATES, LLC
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

HYDRAULIC WATERSHED ANALYSIS
(SOUTHDOWN/SUMMERFIELD WATERSHEDS)
LOCATED IN SECTIONS 82 AND 85
TOWNSHIP 17S, RANGE 17E
TERREBONNE PARISH, LOUISIANA

REV1: JUNE 13, 2011

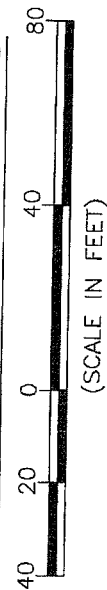
GSE PROJECT NO. 441-041-GSE

SHEET 6 OF 7



NOTE: DUE TO THIS SECTION OF THE PROJECT BEING IN A FORCED DRAINAGE SYSTEM, THE MEAN AND LOW WATER LEVELS ARE THE SAME.

CROSS SECTIONS



HYDRAULIC WATERSHED ANALYSIS
(SOUTHDOWN/SUMMERFIELD WATERSHEDS)
LOCATED IN SECTIONS 82 AND 85
TOWNSHIP 17S, RANGE 17E
TERREBONNE PARISH, LOUISIANA

PREPARED BY: **S PROVIDENCE / GSE**
GSE ASSOCIATES, LLC
ENGINEERS • ARCHITECTS • PLANNERS • SURVEYORS

REV1: JUNE 13, 2011

GSE PROJECT NO. 441-041-GSE

SHEET 7 OF 7

Operations Division
Western Evaluations Section

Date: July 15, 2011
Time 3:20
No. Pages 15 (including header)

Office of Environmental Services
Louisiana Department of Environmental Quality
Mr. Jamie Phillippe- Environmental Scientist

APPLICANT: Terrebonne Parish Govt.

CORPS PERMIT NO: MVN 2011-1114-WLL

PROJECT MANAGER: MIKE HERRMANN (504) 862-2663

We propose to place the project on public notice shortly. Do you want to place the project on joint CORPS-DEQ public notice? YES NO

WQC NO: _____

WQC ANALYST _____

ANALYST PHONE NUMBER AND E-MAIL _____

COMMENTS:

Need Water Quality # for project

Please reply with information by email to :
Michael.h.herrmann@usace.army.mil

Or

Return this form by fax at (504) 862-2574

Please disregard earlier
fax under this MVN # as
pages were missing.

Sorry