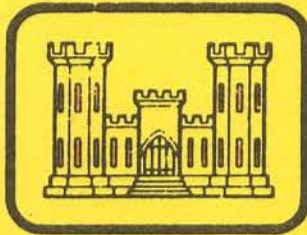


FLOOD CONTROL  
MISSISSIPPI RIVER AND TRIBUTARIES  
MISSISSIPPI RIVER LEVEES

ITEM M-93.3-L TO M-92.8-L  
BARRACKS ST. TO MONTEGUT ST. FLOODWALL

ORLEANS PARISH, LOUISIANA  
RELOCATION OF FACILITIES  
DESIGN MEMORANDUM NO. 74



**United States Army  
Corps of Engineers**

*... Serving the Army  
... Serving the Nation*

DEPARTMENT OF THE ARMY  
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS  
NEW ORLEANS, LOUISIANA

**JANUARY 1985**

Serial No.

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DEPARTMENT OF THE ARMY  
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 60267  
NEW ORLEANS, LOUISIANA 70160

REPLY TO  
ATTENTION OF:

LMNED-SR

SUBJECT: Flood Control, Mississippi River and Tributaries,  
Mississippi River Levees, Item M-94.3 to 93.9-L,  
Barracks Street to Montegut St. Floodwall, Orleans  
Parish, Louisiana, Relocation of Facilities,  
Design Memorandum No. 74

President  
Mississippi River Commission  
ATTN: MRCEd-TD

1. The subject design memorandum is submitted herewith for review and approval in accordance with the provisions of ER 1110-2-1150 dated 2 August 1976 and LMVD Supplement 1, dated October 1981.
2. The final Environmental Impact Statement (EIS) for the Mississippi River Levees and Channel Improvements project was filed with the Council on Environmental Quality on 16 April 1976. Impacts of the subject floodwall are generally covered in the EIS.
3. Due to the nature of the floodwall project, a long linear corridor in a highly congested urbanized area, we will be unable to conduct subsurface archeological excavation prior to initiation of construction. A cultural resources evaluation will be performed prior to award of the construction contract. This evaluation is designed to develop and define the criteria for determining the significance of subsurface resources that are located, if any, during digging of the inspection trench. The investigation will build upon the recently completed historical assessment to identify potentially significant resources and define how those resources can contribute to our understanding of New Orleans history. The end product will be a research design that will guide evaluation of resources if they are discovered. As required in the Memorandum of Agreement, an archeologist will monitor the excavation of the inspection

LMNED-SR

SUBJECT: Flood Control, Mississippi River and Tributaries,  
Mississippi River Levees, Item M-94.3 to 93.9-L,  
Barracks Street Montegut St. Floodwall, Orleans  
Parish, Louisiana, of Facilities, Design  
Memorandum No. 74

trench during construction. Additionally, specifications covering the work to be performed in constructing and maintaining the levees/floodwall provide for preservation of any items of apparent historical or archeological interest which may be discovered in the course of construction activities. The specifications will require immediate notification of proper authorities if any items of this nature are encountered, and will further require that the work cease until the items can be classified and salvaged, if salvage is considered appropriate.

4. Since there is no deposition of dredged or fill material into navigable waters, a section 404 Evaluation is not necessary.

5. Based on studies and investigations at this stage of design, proposed action will not jeopardize the continued existence of any endangered species or threatened species or result in the destruction or adverse modification of critical habitat of such species.

6. The submittal of this design memorandum is in accordance with the existing project schedule which provides for relocation expenditures to begin in the third quarter of fiscal year 1985.

7. Approval of the design memorandum is recommended.

Encl (11 cys)

EUGENE S. WITHERSPOON  
Colonel, CE  
Commanding

FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES  
MISSISSIPPI RIVER LEVEES  
ITEM M-94. TO 93.9  
BARRACKS ST. TO MONTEGUT ST. FLOODWALL  
ORLEANS PARISH, LOUISIANA  
RELOCATION OF FACILITIES  
DESIGN MEMORANDUM NO. 74

STATUS OF DESIGN MEMORANDUMS

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                   | <u>Submission Date</u> |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 1-                             | Flood Control, Mississippi River and Tributaries, Item M-25.0-R, Buras Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                                  | 23 Nov 70              |
| 2                              | Flood Control, Mississippi River and Tributaries, Item M-26.0-R, Upper Buras Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                            | 21 Jan 71              |
| 3                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-14.9-R, Commander Levee Enlargement, Plaquemines Parish, Louisiana Relocation of Facilities                 | 11 Jun 71              |
| 4                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-10.7-R, Venice Levee Enlargement and Setback, Plaquemines Parish, Louisiana, Relocation of Facilities       | 6 Apr 71               |
| 5                              | Lower Red River - South Bank Red River Levees, 22 Jan 71 (A) Item R-117.0-R (1957 Mileage), Levee Enlargement, Rapides-Cotton Bayou Levee, Rapides Parish, Louisiana, Relocation of Facilities | 22 Jan 71              |
| 6                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-31.3-R, Tropical Bend Levee Setback, Plaquemines Parish, Louisiana Relocation of Facilities                 | 30 Mar 71              |
| 7                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-10.4-R, Lower Venice Levee Enlargement and Setback, Plaquemines Parish, Louisiana, Relocation of Facilities | 27 Aug 71              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                                               | <u>Submission Date</u> |
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| 8                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-18.9-R, Fort Jackson-Boothville Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                              | 30 Nov 72              |
| 9                              | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-21.5-R, Childress Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                                            | 23 Sep 71              |
| 10                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-23.2-R, Buras-Triumph Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                                        | 31 May 73              |
| 11                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-55.3-R, Upper Junior Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                             | 21 Jun 71              |
| 12                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-51.0-L, Gravolet Levee Enlargement and Setback, Plaquemines Parish, Louisiana Relocation of Facilities                                  | 14 Sep 72              |
| 13                             | Flood Control, Mississippi River and Tributaries, Lower Red River - South Bank Red River Levees, Item R-123.5-R (1957 Mileage), Scott Home-Bertrand Levee Enlargement, Rapides Parish, Louisiana, Relocation of Facilities | 15 Sep 72              |
| 14                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-96.9-R, Amelia Street Levee, Jefferson Parish, Louisiana, Relocation of Facilities                                                      | 31 Aug 71              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                   | <u>Submission Date</u> |
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| 15                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-41.7-R, Port Sulphur Levee Enlargement and Setback, Plaquemines Parish, Louisiana, Relocation of Facilities | 28 Jan 74              |
| 16                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-33.4-R, Nairn Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                    | 22 Dec 75              |
| 17                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-37.7-R, Homeplace Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                | 5 Jan 73               |
| 18                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-57.7-R, Myrtle Grove Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities             | 31 Jan 73              |
| 19                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-28.0-R, Empire Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                   | 30 Aug 74              |
| 20                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-49.5-R, Woodland Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                 | 24 Aug 73              |
| 21                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-47.2-R, Nolan Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                    | 29 Jun 73              |



STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                   | <u>Submission Date</u> |
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| 22                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levee, Item M-45.0-R, Socola Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                    | 28 Nov 72              |
| 23                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-75.0-L, Scarsdale Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                    | 7 Dec 73               |
| 24                             | Flood Control, Mississippi River and Tributaries, Mississippi River levee, Item M-89.5-R, Cutoff Levee Setback, Orleans Parish, Louisiana, Relocation of Facilities                            | 20 Dec 74              |
| 25                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-130.0-L, Gypsy Levee Setback, St. Charles Parish, Louisiana, Relocation of Facilities                       | 30 Dec 74              |
| 26                             | Flood Control, Mississippi River and Tributaries, Atchafalaya River Levees, Item A-31.3-L, Cross Bayou Levee Setback, Pointe Coupee Parish, Louisiana, Relocation of Facilities                | 8 Nov 74               |
| 27                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M- 39.0-R, Freeport Levee Enlargement, Plaquemines Parish, Louisiana                                          | 27 Dec 74              |
| 28                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-30.2-R, Upper Empire Levee Enlargement and Setback, Plaquemines Parish, Louisiana, Relocation of Facilities | 30 Apr 75              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                                                                  | <u>Submission Date</u> |
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| 29                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-63.0-L, Monsecour Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                                                               | 15 Oct 75              |
| 30                             | Flood Control, Mississippi River and Tributaries, Atchafalaya River Levees, Item A-25.5-R, Goudeau Levee Setback, St. Landry Parish, Louisiana, Relocation of Facilities                                                                      | 30 Jun 76              |
| 31                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-320 to 303-R, Fifth Louisiana Levee District Levee Enlargement, Concordia, West Feliciana, and Pointe Coupee Parishes, Louisiana, Relocation of Facilities | 30 Jun 75              |
| 32                             | Flood Control, Mississippi River and Tributaries, Atchafalaya River Levees, Item A-4.6-L, Legonier Levee Setback, Pointe Coupee Parish, Louisiana, Relocation of Facilities                                                                   | 30 Sep 75              |
| 33                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-35.0-R, Nairn Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                                                       | 22 Dec 75              |
| 34                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-99.0-L, Louisiana Avenue Floodwall, Orleans Parish, Louisiana, Relocation of Facilities                                                                    | 21 Oct 75              |
| 35                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-144.5-L, Angelina Levee Setback, St. John the Baptist Parish, Louisiana, Relocation of Facilities                                                          | 12 Dec 75              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                           | <u>Submission Date</u> |
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| 36                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-205.0-R, Point Pleasant Levee Setback, Iberville Parish, Louisiana, Relocation of Facilities                        | 29 Nov 76              |
| 37                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-58.0-L, St. Sophie Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities                       | 15 Sep 75              |
| 38                             | Flood Control, Mississippi River and Tributaries, Atchafalaya River Levees, Item A-38.0-L, Holloway Lake Levee Setback, Pointe Coupee Parish, Louisiana Relocation of Facilities                       | 26 Mar 76              |
| 39                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-90.5-L, Chalmette Slip Levee Enlargement, St. Bernard Parish, Louisiana Relocation of Facilities                    | 5 May 77               |
| 40                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-95.5-L, Thalia-Poydras Levee Setback, Orleans Parish, Louisiana, Relocation of Facilities                           | 10 Jun 76              |
| 41                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-217.5-L, Chariot Levee Setback, East Baton Rouge Parish, Louisiana, Relocation of Facilities                        | 11 Jun 76              |
| 42                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-52.6-R and M-52.1-R Junior and Lower Junior Levee Setbacks, Plaquemines Parish, Louisiana, Relocation of Facilities | 24 Jan 77              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                          | <u>Submission Date</u> |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 43                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-86.0-R, Stanton Levee Setback, Orleans Parish, Louisiana, Relocation of Facilities                 | 10 Oct 78              |
| 44                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M- 215.3-L, Manchac Bend Levee Setback, East Baton Rouge Parish, Louisiana, Relocation of Facilities | 23 Dec 76              |
| 45                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-28.5-R, Empire Levee Setback, Plaquemines Parish Louisiana, Relocation of Facilities               | 16 Dec 77              |
| 46                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-49.0-R, Woodland Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities            | 28 Nov 77              |
| 47                             | Flood Control, Mississippi River and Tributaries, Atchafalaya Basin Floodway, New Berwick Floodwall, St. Mary Parish, Louisiana, Relocation of Facilities                             | 14 Mar 79              |
| 48                             | Flood Control, Mississippi River and Tributaries, Atchafalaya Basin Floodway, New Morgan City Floodwall, St. Mary Parish, Louisiana, Relocation of Facilities                         | 16 Mar 81              |
| 49                             | Flood Control, Mississippi River and Tributaries, Atchafalaya Basin Floodway, New Tiger Island Floodwall, St. Mary Parish, Louisiana, Relocation of Facilities                        | 17 Oct 79              |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                                                  | <u>Submission Date</u> |
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| 50                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-24.8-R, Buras-Triumph Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                               | 30 Sep 77              |
| 51                             | Flood Control, Mississippi River and Tributaries, East Atchafalaya Basin Protection Levee, Item E-69.0 and E-.73.3, Levee Enlargements, St. Martin and Iberville Parishes, Louisiana, Relocation of Louisiana State Route 997 | 3 Jun 77               |
| 52                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-100.0-L, Nashville-Napoleon Floodwall, Orleans Parish, Louisiana Relocation of Facilities                                                  | 25 Aug 77              |
| 53                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-88.0-R, Algiers Lock Forebay Levee Enlargement, Orleans Parish, Louisiana, Relocation of Facilities                                        | 1 Aug 77               |
| 54                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-29.4-R, Empire Lock Modifications, Plaquemines Parish, Louisiana, Relocation of Facilities                                                 | 19 May 78              |
| 55                             | Flood Control, Mississippi River and Tributaries, West Atchafalaya Basin Protection Levee, Item W-86.0 Levee Enlargement, St. Mary Parish, Louisiana, Relocation of Facilities                                                | NOT SCHEDULED          |
| 56                             | Flood Control, Mississippi River and Tributaries, East Atchafalaya Basin Protection Levee, Item E-89, Driving Steel Sheet Piling and Levee Enlargement, St. Mary Parish, Louisiana, Relocation of Facilities                  | 15 May 78              |

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| 57                             | Flood Control, Mississippi River and Tributaries, Algiers Point Setback, Levee Enlargement and Slope Pavement, Item M-94.3-R, Orleans Parish, Louisiana, Relocation of Facilities            | 8 Aug 79               |
| 58                             | Flood Control, Mississippi River and Tributaries, Item M-48.7-L, East Pointe-a-la-Hache Ferry Landing and Levee Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities         | 2 Jun 78               |
| 59                             | Flood Control, Mississippi River and Tributaries, Jackson Avenue Floodgate, Item M-97.2-L, Orleans Parish, Louisiana, Relocation of Facilities                                               | 9 Jun 78               |
| 60                             | Flood Control, Mississippi River and Tributaries, Item M-303 to 293-R, Torras Levee Enlargement and Berm, Point Coupee Parish, Louisiana, Relocation of Facilities                           | 26 Jul 78              |
| 61                             | Flood Control, Mississippi River and Tributaries, East Atchafalaya Basin Protection Levee, Item E-36.0, Levee Enlargement, Iberville Parish, Louisiana, Relocation of Facilities             | 28 Mar 79              |
| 62                             | Flood Control, Mississippi River and Tributaries, Item M-292 to 283-R, Raccourci Levee Enlargement, Pointe Coupee Parish, Louisiana, Relocation of Facilities                                | 12 Jun 79              |
| 63                             | Flood Control, Mississippi River and Tributaries, West Atchafalaya Basin Protection Levee, Item W-85, Levee Enlargement, Iberia and St. Martin Parishes, Louisiana, Relocation of Facilities | 6 Oct 80               |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                              | <u>Submission Date</u>                    |
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| 64                             | Flood Control, Mississippi River and Tributaries, Louisiana-Jackson Avenue Floodwall, Item M-98.2 to 97.2-L, Orleans Parish, Louisiana, Relocation of Facilities                                          | 1 Jun 82                                  |
| 65                             | Flood Control, Mississippi River and Tributaries, Canal-Toulouse Street Floodwall, Item M-94.9-94.6-L, Orleans Parish, Louisiana, Relocation of Facilities                                                | 17 Dec 82                                 |
| 66                             | Flood Control, Mississippi River and Tributaries, West Atchafalaya Basin Protection Levee, Item W-117.0, Levee Enlargement, St. Mary Parish, Louisiana, Relocation of Facilities                          | 15 Dec 80                                 |
| 67                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-56.1-L, Harlem Levee Setback Plaquemines Parish, Louisiana, Relocation of Facilities                                   | 17 Feb 82                                 |
| 68                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-71.0-L, Linwood Levee Setback, Plaquemines Parish, Louisiana, Relocation of Facilities                                 | 16 Mar 81                                 |
| 69                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-75.6 - 74.5-L, Scarsdale-Stella Levee Setback and Enlargement, Plaquemines Parish, Louisiana, Relocation of Facilities | 9 Jun 81                                  |
| 70                             | Flood Control, Mississippi River and Tributaries, West Atchafalaya Basin Protection Levee, Item W-68.0, Levee Enlargement & Berms, St. Martin Parish, Louisiana, Relocation of Facilities                 | Value<br>Engineered<br>No RDM<br>Required |

STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                                              | <u>Submission Date</u> |
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| 71.                            | Flood Control, Mississippi River and Tributaries, East Atchafalaya Basin Protection Levee, Item E-58.0A, Levee Enlargement & Berms, Iberville Parish, Louisiana, Relocation of Facilities                                 | 27 Mar 81              |
| 72                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-94.3-R and M-97.2-R, Algiers and Gretna Ferry Terminal Floodwalls, Orleans and Jefferson Parishes, Louisiana, Relocation of Facilities | 2 Nov 81               |
| 73                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-94.3, Algiers Point Setback and Floodwall, Orleans Parish, Louisiana, Relocation of Facilities                                         | 20 Jun 83              |
| 74                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-94.3-93.5-L, Barracks-Montegut Street Floodwall, Orleans Parish, Louisiana, Relocation of Facilities                                   | Jan 85                 |
| 75                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-93.5-92.8-L, Montegut-Independence Streets Floodwall, Orleans Parish, Louisiana, Relocation of Facilities                              | Jun 86                 |
| 76                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-90.5 - 89.5-L, Chalmette Battlefield, St. Bernard Parish, Louisiana, Relocation of Facilities                                          | 4 Oct 83               |
| 77                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-70.0-L, Bertrandville Levee Setback, Plaquemines Parish, Louisiana, Relocations of Facilities                                          | Dec 84                 |



STATUS OF DESIGN MEMORANDUMS (cont'd)

| <u>Design<br/>Memo<br/>No.</u> | <u>Title</u>                                                                                                                                                                                | <u>Submission Date</u> |
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| 78                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-181.1 to 180.2-L, Marchand Levee Setback, Ascension Parish, Louisiana, Relocation of Facilities          | Dec 84                 |
| 79                             | Flood Control, Mississippi River and Tributaries, Atchafalaya River Levees, Item A-26.5-R, Goodwood Levee Setback, St. Landry Parish, Louisiana, Relocation of Facilities                   | 14 Jun 84              |
| 80                             | Flood Control, Mississippi River and Tributaries, Mississippi River Levees, Item M-93.3 to 92.8-L, Independence St. and IHNC Floodwall, Orleans Parish, Louisiana, Relocation of Facilities | 24 July 84             |

FLOOD CONTROL, MISSISSIPPI RIVER AND TRIBUTARIES  
MISSISSIPPI RIVER LEVEES  
ITEM M-94.3 TO 93.9  
BARRACKS ST. TO MONTEGUT ST. FLOODWALL  
ORLEANS PARISH, LOUISIANA  
RELOCATION OF FACILITIES  
DESIGN MEMORANDUM NO. 74

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Location Map  
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APPENDIX A

Attorney's Investigation and Report  
of Compensable Interest

## PERTINENT DATA

### LOCATION:

The Barracks Street to Montegut Street floodwall, Item M-94.3 to 93.9-L, is located in Orleans Parish, Louisiana on the east bank of the Mississippi River between levee stations 486+11.5 and 521+72.

### PURPOSE:

The Mississippi River and Tributaries Flood Control Project is a plan designed to protect the Lower Mississippi Valley against the Project Design Flood. The plan includes the use of levees, floodwalls, floodways, channel improvements and major tributary flood control improvements. Specifically, item M-94.3 to 93.9-L is designed to provide flood protection to a portion of the Greater New Orleans Area.

### PROJECT AUTHORIZATION:

The Flood Control Act of 15 May 1928 (Public Law 391, 70th Congress), as amended, provides authorization for this project.

### LOCAL ASSURING AGENCY:

The local assuring agency for this project is the Board of Levee Commissioners of the Orleans Levee District.

### DESCRIPTION:

The Barracks Street to Montegut Street floodwall is a proposed improvement to a reach of the main line levee on the east bank of the Mississippi River in the City of New Orleans, Orleans Parish, Louisiana, at approximate river mile 94.0 above the Head of Passes.

The determination to construct a floodwall in this location is based on the lowest overall cost for the project after considering the engineering and environmental factors, the available rights-of-way and the desirability of minimizing relocations. The floodwall alignment, as proposed, results in the least disruption to the facilities located in the subject reach.

The proposed improvement consists of approximately 3500 linear feet of I-type floodwall with T-type gate monoliths. Four floodgates will be incorporated into the wall, of which one will be roller type and three will be swing type. The floodwall will top out at elevation 22.9 feet NGVD, to station 489+00 and 22.8 to station 521+72.

LIST OF EXISTING FACILITIES BY OWNER 1/

A. The Board of Commissioners of the Port of New Orleans owns facilities which cross the proposed floodwall alinement as listed below.

| ITEM | TYPE               | BASE LINE STATION     | PLATE |
|------|--------------------|-----------------------|-------|
| S-1  | 2" Force Sewerline | 487+86                | 4     |
| R-2  | Road               | From 492+26 to 492+73 | 4     |
| S-5  | 3" Force Sewerline | 506+28                | 6     |
| W-2  | 8" CI Pipeline     | 498+67                | 5     |
| W-3  | 8" CI Pipeline     | 502+42                | 6     |
| W-4  | 8" CI Pipeline     | 505+96                | 6     |
| W-10 | 8" CI Pipeline     | 521+28                | 8     |

B. New Orleans Public Service, Inc. owns facilities which cross the proposed floodwall alinement as listed below.

| ITEM | TYPE                     | BASE LINE STATION     | PLATE |
|------|--------------------------|-----------------------|-------|
| E-1  | Overhead Electric Cables | 495+24                | 5     |
| E-2  | Overhead Electric Cables | 495+74                | 5     |
| E-3  | Overhead Electric Cables | 496+18                | 5     |
| E-4  | Overhead Electric Cables | 505+53                | 6     |
| E-6  | Overhead Electric Cables | FROM 507+16 TO 509+10 | 6 & 7 |
| E-9  | Overhead Electric Cables | 515+80                | 8     |
| E-10 | Overhead Electric Cables | 516+90                | 8     |
| E-11 | Overhead Electric Cables | 518+03                | 8     |

1/ Additional facilities owned by agencies listed below are listed in paragraph 12c. of this memorandum, and will be addressed as stated in that paragraph.

C. New Orleans Public Belt Railroad Commission owns tracks and facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM | TYPE           | BASE LINE STATION | PLATE |
|------|----------------|-------------------|-------|
| RR-1 | Railroad Track | 494+24            | 4     |

D. Alabama Great Southern Railway Company owns tracks and facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM | TYPE           | BASE LINE STATION | PLATE |
|------|----------------|-------------------|-------|
| RR-2 | Railroad Track | 516+35            | 8     |

E. The French Market Corporation leases property from the City of New Orleans and owns facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM         | TYPE                                                  | BASE LINE STATION     | PLATE |
|--------------|-------------------------------------------------------|-----------------------|-------|
| L-1 thru L-8 | 8 Lamp Poles                                          | From 487+09 to 490+00 | 3&4   |
| R-1          | Parking Area Road                                     | 486+10                | 3     |
| PA-1         | Parking Area Pavement                                 | From 486+11 to 490+60 | 3&4   |
| EF-2         | Underground Electrical Feeder                         | 487+01                | 3     |
| F-1          | Guard Rail & Posts                                    | From 486+11 to 490+00 | 3&4   |
| C-1          | Underground Electrical Cable & Conduit                | 489+94                | 4     |
| B-1          | Concrete Island Toll Arm & Automatic Ticket Dispenser | 490+00                | 4     |
| EF-1         | Electric feeder & Luminaire                           | 486+11                | 3     |

F. The Sewerage and Water Board of New Orleans owns facilities that are affected by the proposed floodwall as listed below.

| ITEM | TYPE                | BASE LINE STATION | PLATE |
|------|---------------------|-------------------|-------|
| W-1  | 12" Waterline       | 486+04            | 3     |
| S-2  | 48" Force Sewerline | 498+90            | 5     |
| S-3  | 48" Force Sewerline | 499+10            | 5     |
| S-4  | 48" Force Sewerline | 505+25            | 6     |
| W-5  | 8" Waterline        | 510+75            | 7     |
| S-6  | 48" Force Sewerline | 513+95            | 7     |
| W-6  | 8" Waterline        | 514+05            | 7     |
| W-9  | 8" Waterline        | 518+11            | 8     |
| W-11 | 16" Waterline       | 507+48            | 6     |

G. South Central Bell Telephone Company owns a facility that is affected by the proposed floodwall alignment as listed below.

| ITEM | TYPE                         | BASE LINE STATION | PLATE |
|------|------------------------------|-------------------|-------|
| T-1  | Underground Telephone Cables | 510+95            | 7     |

H. The Department of Utilities of the City of New Orleans owns facilities that are affected by the proposed floodwall alignment as listed below:

| ITEM           | TYPE                      | BASE LINE STATION     | PLATE |
|----------------|---------------------------|-----------------------|-------|
| L-10 thru L-12 | Lightpoles (3)            | as shown              | 4     |
| C-2            | Electrical Conduit        | 492+90                | 4     |
| P-1 & P-2      | Overhead Electric Feeders | From 501+20 to 513+98 | 6&7   |

I. Miscellaneous (Owner Unknown)

| ITEM | TYPE           | BASE LINE STATION | PLATE |
|------|----------------|-------------------|-------|
| W-8  | 8" CI Pipeline | 507+00 to 514+00  | 7     |

1. PURPOSE OF DESIGN MEMORANDUM. This memorandum presents the relocation plans for the facilities affected by the construction of the Barrack Street to Montegut Street floodwall and is submitted in compliance with Part 3. Section LXXIII, ER 1180-1-1, dated 1 July 1980 and DIVR 1110-2-1, dated 29 January 1968.

The memorandum establishes:

- a. The necessity for the relocation of the facilities and the plan of relocation.
- b. The legal obligation of the Federal Government, and
- c. Where appropriate, the basis for reimbursing the Orleans Levee District for costs incurred in accomplishing the relocations described herein.

2. PROJECT AUTHORIZATION:

a. AUTHORIZATION. Authority for construction, enlargement, or improvement of main line Mississippi River levees and thereby, for the Canal St. to Toulouse St. Floodwall project, is contained in the Flood Control Act of 15 May 1928 (Public Law 391, 70th Congress), as amended. Authority for Federal reimbursement of costs to local cooperating agencies incurred in the course of accomplishing the relocation of interfering facilities is contained in the Act of 23 April 1934 (Public Law 171, 73d Congress). Pursuant to the provisions of DIVR 1110-2-1, which provides the policy for the relocation of public roads, highways, railroads, public utilities, structures, public pipelines, as required for the construction of main line Mississippi River levees, all relocations will be accomplished at Federal expense, except as otherwise indicated in this RDM.

b. LOCAL COOPERATION.

(1) Section 3 of the Flood Control Act of 15 May 1928 establishes that the furnishing of rights-of-way for floodwalls, levee foundation for levees, except for levee setbacks, on the main stem of the Mississippi River is an obligation of local interests.

(2) The Act of 23 April 1934 (Public Law 171, 73rd Congress) provides the authority for the reimbursement, by the Federal Government to the local cooperating agencies, for the expenses incurred in the course of accomplishing the relocation of facilities.



3. OWNER'S COMPENSABLE INTEREST. The legal obligations of the Federal Government regarding the affected facilities and the extent of the authority for the relocations described herein are defined in the Attorney's Report, attached as Appendix 1. The attorney's report concludes that:

a. The Board of Commissioners of the Port of New Orleans, the New Orleans Public Belt Railroad, the Sewerage & Water Board of the City of New Orleans, the Department of Utilities and the Department of Streets of the City of New Orleans, do have a compensable interest in their affected facilities.

b. The New Orleans Public Service, Inc. the French Market Corporation, South Central Bell and the Alabama Great Southern Railway Company, do not have a compensable interest in their affected facilities.

4. DESCRIPTION OF EXISTING FACILITIES AFFECTED BY THE PROJECT.

a. Roads.

(1) The Board of Commissioners of the Port of New Orleans (Dock Board) owns the following roads affected by the construction of floodgate number 2.

| <u>Item</u> | <u>Description/<br/>Condition</u>                                                                                                              | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station<br/>Plate</u> |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------|
| R-2         | 68 feet wide road with a cross-section of 1 1/2-inch thick asphalt wearing course over 8-inch thick concrete slab over a 12" thick shell base. | 12' wide strip              | 492+26 to 492+73<br>4                 |

(2) The French Market Corporation leases property from the City of New Orleans and operates road facilities that are affected by the proposed floodwall construction and these are listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>                                                                                                                | <u>Affected<br/>Portion</u> | <u>Baseline Station/<br/>Plate</u> |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------|
| R-1         | 30 feet wide road with a cross-section of 8-inch thick reinforced concrete slab over a 12-inch thick compacted shell sub-base. Condition - good. | 12' wide strip              | 486+10<br>3                        |
| PA-1        | Parking area pavement with a cross-section of 1.5" thick asphalt top over a 12" compacted shell sub-base. Condition - good.                      | 5' wide x 440' long strip   | 486+11 to 490+60<br>3 & 4          |

b. Railroads.

(1) The New Orleans Public Belt Railroad owns the following railroad tracks affected by the construction of floodgate number 3:

| <u>Item</u>    | <u>Description/<br/>Condition</u>                                                                                             | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|----------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| RR-1<br>(Spur) | 80 lb. 39-foot rails, 7-inch x 9-inch x 8.5 feet treated crossties. 23 ties per rail, crushed rock ballast. Condition - Good. | 150 feet                    | 494+2(Spur)<br>Gate 3<br>4        |

(2) The Alabama - Great Southern Railway owns the following railroad tracks affected by the construction of floodgate number 4:

| <u>Item</u>    | <u>Description/<br/>Condition</u>                                                                                            | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|----------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| RR-2<br>(Spur) | 80 lb. 39-foot rails, 7-inch x 9-inch x 8.5 feet treated crossties. 23 ties per rail crushed rock ballast. Condition - Good. | 30 feet                     | 516+35<br>Gate 4<br>8             |

c. Utilities and Structures.

(1) The Board of Commissioners of the Port of New Orleans owns utilities affected by the proposed floodwall construction as listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>                                                          | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|--------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| S-1         | 2" fiberglass reinforced<br>force sewerline inside 5"<br>steel casing<br>Condition - Good. | 12 feet                     | 487+86<br>4                       |
| S-5         | 3" fiberglass reinforced<br>force sewerline inside<br>6" steel casing<br>Condition - Good. | 12 feet                     | 506+28                            |
| W-2         | 8" CI waterline<br>Condition-Good                                                          | 12 feet                     | 498+67<br>5                       |
| W-3         | 8" CI waterline<br>Condition-Good                                                          | 12 feet                     | 502+42<br>6                       |
| W-4         | 8" CI waterline<br>Condition-Good                                                          | 12 feet                     | 505+96<br>6                       |
| W-10        | 8" CI waterline<br>Condition-Good                                                          | 12 feet                     | 521+28<br>8                       |

(2) New Orleans Public Service, Inc. owns utilities affected by the the proposed floodwall construction as listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>               | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|-------------------------------------------------|-----------------------------|-----------------------------------|
| E-1         | 115 KV aerial<br>powerline<br>Condition - Good. | Overhead Cables             | 495+24<br>5                       |
| E-2         | 24 KV aerial<br>powerline<br>Condition - Good.  | Overhead Cables             | 495+74<br>5                       |
| E-3         | 115 KV aerial<br>powerline<br>Condition - Good. | Overhead Cables             | 496+18<br>5                       |

| <u>Item</u> | <u>Description/<br/>Condition</u>                   | <u>Affected<br/>Portion</u>                      | <u>Baseline<br/>Station/Plate</u> |
|-------------|-----------------------------------------------------|--------------------------------------------------|-----------------------------------|
| E-4         | 480 V Service drop<br>Condition - Good.             | Overhead Cables                                  | 505+53<br>6                       |
| E-6         | 115 KV aerial<br>powerline<br><br>Condition - Good. | Overhead Cables                                  | FROM 507+16<br>TO 509+10<br>6 & 7 |
| E-9         | 115 KV aerial<br>powerline<br>Condition - Good.     | Overhead Cables                                  | 515+92<br>8                       |
| E-10        | 480 V Service Drop<br>Condition - Good.             | Overhead Lines<br>Transformer and<br>Power Pole. | 516+90<br>8                       |
| E-11        | 240 V Service Drop<br>Condition - Good.             | Overhead Lines                                   | 518+03<br>8                       |

(3) The French Market Corporation owns utilities and structures affected by the proposed floodwall construction as listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>                                 | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|-------------------------------------------------------------------|-----------------------------|-----------------------------------|
| L-1 to L-8  | Light Poles &<br>underground feeders<br>Condition - Good.         | Poles & Foundations         | From 487+09 to<br>490+00<br>3 & 4 |
| EF-1        | Wall mounted<br>luminaire<br>and electrical<br>feeder assembly.   | Entire Facility             | 486+11<br>3                       |
| EF-2        | Underground electric<br>feeder.                                   | 6 feet                      | 487+01<br>4                       |
| B-1         | Concrete Island,<br>toll arm<br>and automatic<br>ticket dispenser | Entire Facility             | 490+00<br>4                       |
| C-1         | Underground electric<br>cable & conduit                           | 6 feet                      | 492+90<br>4                       |
| F-1         | Guard Rail & Posts                                                |                             | From 486+11 to<br>490+00<br>3 & 4 |

(4) The Sewerage & Water Board of New Orleans owns utilities affected by the proposed floodwall construction as listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>           | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|---------------------------------------------|-----------------------------|-----------------------------------|
| W-1         | 12" CI waterline,<br>Condition - Good.      | 12 feet                     | 486+40<br>3                       |
| W-5         | 8" CI waterline<br>Condition - Good.        | 6 feet                      | 510+75<br>7                       |
| W-6         | 8" CI waterline<br>Condition - Good.        | 6 feet                      | 514+05<br>7                       |
| W-9         | 12" CI waterline                            | 6 feet                      | 518+11<br>8                       |
| W-11        | 16" CI waterline                            | 6 feet                      | 507+48<br>6                       |
| S-2         | 48" CI Force Sewermain<br>Condition - Good. | 12 feet                     | 498+90<br>5                       |
| S-3         | 48" CI Force Sewermain<br>Condition - Good. | 12 feet                     | 499+10<br>5                       |
| S-4         | 48" CI Force Sewermain<br>Condition - Good. | 12 feet                     | 505+25<br>6                       |
| S-6         | 48" CI Force Sewermain<br>Condition - Good. | 60 feet                     | 513+95<br>7                       |

(5) South Central Bell Telephone Company owns a facility affected by the proposed floodwall construction as listed below.

| <u>Item</u> | <u>Description/<br/>Condition</u>                                                                                                                                                                             | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| T-1         | Underground facility<br>consisting of 4-3.5"<br>plastic ducts encased<br>in a 20"x20" concrete<br>envelope. The facility<br>contains 2 trunk cables,<br>1 exchange cable and 1 air pipe.<br>Condition - Good. | 10 feet                     | 510+95<br>7                       |

(6) The Department of Utilities of the City of New Orleans owns facilities that are affected by the proposed floodwall construction as listed below.

| <u>Item</u>       | <u>Description/<br/>Condition</u>       | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------------|-----------------------------------------|-----------------------------|-----------------------------------|
| L-10 thru<br>L-12 | 3 lightpoles<br>Condition - Good.       | lightpole only              | 490+65 to 491+90<br>4             |
| C-2               | Electrical Conduit<br>Condition - Good. | 6 feet                      | 492+90<br>4                       |
| P-1 & P-2         | Overhead Electric<br>Feeders            | 800 feet                    | 501+20 to 513+98<br>6 & 7         |

(7) Miscellaneous. Owner unknown.

| <u>Item</u> | <u>Description/<br/>Condition</u> | <u>Affected<br/>Portion</u> | <u>Baseline<br/>Station/Plate</u> |
|-------------|-----------------------------------|-----------------------------|-----------------------------------|
| W-8         | 8" CI pipeline<br>Abandoned       | 100 feet                    | 507+00 to 514+00<br>6 & 7         |

5. FIELD RECONNAISSANCE AND INVESTIGATION. Field surveys, field inspection, consultations, and correspondence with the affected facility owners and the Orleans Levee District provided the basic information from which this design memorandum and the proposed relocation plans were prepared. This work was accomplished principally by NOD's Relocation Section personnel Messrs. Terry Green and Jose Gelpi.

6. CRITERIA FOR RELOCATED FACILITIES.

a. Roads.

(1) The design criteria for the restoration of the affected portions of road Item R-2 will be in accordance with the provisions "Louisiana Standard Specifications for Roads and Bridges; '1982 edition.'

(2) Road items R-1 (parking area road) and PA-1 (parking area pavement) will be restored by their owner in compliance with his standards.

b. Railroads.

The design criteria for the temporary relocation of items RR-1 and RR-2 (railroad tracks) and of the falsework over which the are to be placed, will be in accordance with the "American Railway Engineering Association Manual for Railroad Engineering".

c. Utilities and Structures.

(1) The design criteria for the relocation of waterlines, Items W-1, W-2, W-3, W-4, W-5, W-6, <sup>W-7</sup>W-10 and W-11, will be in compliance with the owner's standards and recommendations. Item W-8, (abandoned 8" pipeline) will be cut, removed and plugged in accordance with NOD's standard practice.

(2) The design criteria for the relocation of force sewers S-1, S-2, S-3, S-4, S-5 and S-6 will be in compliance with the owner's standards and recommendations.

(3) The design criteria for the relocation or de-energization of electrical Items E-1, E-2, E-3, E-4, E-6, E-9, E-10 and E-11 (powerlines) will be in accordance with the owner's approved relocation plan. The de-energization of all affected powerlines will be coordinated by NOD with their owner.

(4) The design criteria for the relocation of lightpoles L-1 thru L-8, L-10 thru L-12, P-1, P-2 and the area floodlight and feeder EF-1 will be performed by their owner in compliance with his standards. Items EF-2, C-1 and C-2 and the underground portion of EF-1 will be abandoned by their owner and removed by the Government's contractor only where in conflict with the floodwall construction.

(5) Items F-1 (guard rail and posts) and B-1 (concrete island, arm and ticket dispenser) will be relocated by their owner in compliance with their standards.

(6) Item T-1 (underground telephone cables and ducts) will be relocated by its owner in compliance with their standards.

(7) NOD will prepare plans and specifications for the relocation of items R-2, RR-1, RR-2, W-1 thru W-11 & S-1 thru S-6. Where applicable or necessary the owner's of all other items will submit their relocation plans and specifications for NOD review.

(8) Plans and specifications for the uncovering, cutting, removing and plugging of abandoned 8" CI pipeline, Item W-8, will be prepared by NOD. Work related to this abandoned items will be preformed by the Government's contractor as part of the floodwall construction contract.

d. Betterments. The relocation of the above items will not result in a betterment to any facility.

## 7. DESCRIPTION OF PROPOSED RELOCATIONS.

### a. Roads.

(1) The construction of floodgates 1 and 2 will affect the road items R-1 and R-2. The work requires the removal of a 12-foot strip of roadway across its entire width to a depth of approximately 5 feet. Sheetpile will be driven and the gate sills cast to the proper elevation, following which the affected portions of the roads will be restored to the appropriate grade matching the gates' sill elevations at Federal Government's expense.

(2) The construction of the floodwall, between baseline stations 486+11 to 480+60 will affect item PA-1 (parking area pavement). At the conclusion of the construction of the portion of the floodwall that is in conflict with item PA-1, the owner will restore the affected portion of PA-1 at his expense.



b. Railroads.

The construction of floodgates 3 and 4 will affect railroad track items RR-1 and RR-2. The relocation of railroad track RR-1 will require the re-alinement of approximately 150 feet of track to make way for the floodwall. In addition, the relocation of RR-1 and RR-2 requires, in each case, the temporary removal of a 30-foot length of track and the installation of falsework over which the 30-foot track lengths will be placed/removed to allow for both train traffic and floodgate construction. Once the floodgates are built the falsework will be removed and the tracks will then be permanently installed in place over the gate's sill. The relocation of Item RR-1 will be done at the Federal Government's expense. The relocation of RR-2 will be done at the Owner's expense.

c. Utilities and Structures.

(1) The relocation of watermain items <sup>W-1,</sup> W-2, W-3, W-4, W-5, W-6, W-9, W-10 and W-11 will employ the following procedure in each case. The watermain will be uncovered and the service turned off. A 6-foot length of pipe will be cut to allow for the driving of the sheetpile. An opening will be burnt in the sheetpile and a steel sleeve of appropriate size will be welded into the opening. The 6-foot section of pipe will be passed thru the sleeve and reconnected. Waterproof packing and casing seals will be installed and service restored. Item W-8, 8" CI pipeline, is an abandoned utility and will be cut, removed and plugged by the Government's contractor.

(2) The relocation of sewerlines, items S-1, S-2, S-3, S-4, S-5 and S-6, will employ the following procedure in each case. The sewerline will be de-activated wherever possible or a holding tank will be provided to contain the effluent. The pipeline will be uncovered and a section of pipe will be cut to allow for the driving of the sheetpiling into position. An opening will be burned in the sheetpile and a steel sleeve of appropriate size will be welded into the opening. The cut section of sewer pipe will be passed thru the sleeve and re-connected. Water proof packing and casing seals will be installed and service restored. A 48" gate valve will be installed on item S-6; in addition 2" and 3" gate valves will be installed on items S-1 and S-5, respectively. All gate valves will be installed on the protected side of the facility. Items S-2, S-3 and S-4 have existing 48" gate valves located in the vicinity of the floodwall's protected side.

(3) The temporary relocation of electrical items P-1, P-2, E-2, E-4, E-10 and E-11 will be effected by either shifting aside or de-energizing, as the case may be, in coordination with the floodwall construction. In addition the powerpole and transformer, part of item E-10, will be permanently re-positioned away from and outside of the floodwall's permanent servitude. Electrical items E-1, E-3, E-6 and E-9 (115 KV aerial powerlines) will be de-energized by NOPSI as required by the floodwall construction schedule. NOD will coordinate all de-energization operations with NOPSI.

(4) Electrical feeders and conduits, items EF-1, EF-2, C-1 and C-2, will be de-energized by their owner at NOD's request and the Government's contractor will cut and remove that part of the utility interfering with the construction.

(5) The relocation of light pole Item L-1 thru L-8 and L-10 thru L-12 will employ the following procedure. Service will be disconnected, electrical cables will be pulled out, the light pole will be removed and stored. Upon completion of the corresponding floodwall section. The light poles will be re-installed and plac'd back into service. All relocation work on these items will be done by their owner.

(6) The relocation of underground telephone cables and ducts, Item T-1, will be effected by its owner. Item T-1 will be uncovered and the protective concrete cover removed. The exposed ducts will then be pushed aside to make way for the sheetpile driving. The driven sheetpile will be slotted to accommodate T-1. Split casings and sleeves will be welded around T-1, waterproofing and boot seals installed, and the concrete envelope restored. All relocation work on this item will be accomplished by the owner.

(7) Relocation work for utility items P-1, P-2, W-1, W-2, W-3, W-4, W-5, W-6, W-8, <sup>W-7</sup>W-10, W-11, S-1, S-2, S-3, S-4, S-5, S-6, L-10 thru L-12 and C-2 will be done at the Federal Government's expense. Relocation work for utility items E-1, E-2, E-3, E-4, E-6, E-9, E-10, E-11, T-1, L-1 thru L-8, EF-1, EF-2, C-1, B-1 and F-1 will be effected at their owners' expense.

(8) Item W-8, 8" CI pipeline, owner unknown, will be declared abandoned by the Orleans Levee District. This item will be uncovered by the Government's contractor and removed where it conflicts with the floodwall construction operations.

8. PROCEDURE FOR ACCOMPLISHING RELOCATIONS.

a. Roads.

(1) The restoration of items R-1, driveway pavement, and PA-1, parking area pavement, will be accomplished by the owner at his expense, after the floodwall construction is completed. The removal of item F-1, guardrail, will be accomplished by the owner at his expense concurrently with the floodwall construction.

(2) The restoration of item R-2, vehicular access pavement, will be accomplished by the Government's contractor as part of the floodwall construction contract, at Federal Government cost.

(3) NOD will prepare the necessary drawings and specifications for the restoration of item R-2. These drawings and specifications will be submitted to the owner for review.

b. Railroads.

(1) The temporary relocation of railroad track, item RR-1, will be accomplished by the owner at Federal Government expense. The Government's contractor will furnish, install and remove the railroad falsework over which the track will be placed/removed in coordination with the construction of the floodgate.

(2) The temporary relocation of railroad track, item RR-2, will be accomplished by the owner at his expense. The owner will also furnish, install and remove at his expense, the railroad falsework over which the track will be placed/removed in coordination with the construction of the floodgate.

(3) NOD will prepare the necessary drawings and specifications for review by the owner.

c. Utilities & Structures.

(1) The following listed utilities will be removed by the owner, at his expense, concurrently with the floodwall construction and in coordination with the Government's contractor construction schedule.

| <u>ITEM</u>  | <u>DESCRIPTION</u>                   | <u>PLATE</u> |
|--------------|--------------------------------------|--------------|
| L-1 thru L-8 | Lightpoles                           | 3 & 4        |
| EF-1         | Electric Feeder & Luminaire          | 3            |
| EF-2         | Underground Electric Feeder Cables   | 3            |
| C-1          | Underground Electrical Feeder Cables | 4            |

The underground portion of the conduits corresponding to EF-1, EF-2 & C-1 will be abandoned by their owner and removed by the Government's Contractor where they interfere with the floodwall construction at their owner's expense.

(2) The following listed utilities will be temporarily removed by their owner at Federal Government expense, concurrently with the floodwall construction and in coordination with the Government's contractor construction schedule.

| <u>ITEM</u>    | <u>DESCRIPTION</u>        | <u>PLATE</u> |
|----------------|---------------------------|--------------|
| L-10 thru L-12 | Lightpoles                | 4            |
| P-1 & P-2      | Overhead Electric Feeders | 6 & 7        |

(3) The following listed utilities will be temporarily re-routed or de-energized by their owner, at his expense, concurrently with the floodwall construction and in coordination with the Government's contractor.

| <u>ITEM</u>         | <u>DESCRIPTION</u>                                       | <u>PLATE</u> |
|---------------------|----------------------------------------------------------|--------------|
| E-1, E-3, E-6 & E-9 | 115 KV Overhead Electric Lines                           | 5, 6, 7 & 8  |
| E-2                 | 24 KV Overhead Electric Line                             | 5            |
| E-4                 | 480 V Overhead Electric Line                             | 6            |
| E-10                | 24 KV Overhead Electric Line,<br>Powerpole & Transformer | 8            |
| E-11                | 240 V Overhead Electric Line                             | 8            |
| T-1                 | Underground Telephone Cable                              | 7            |

(4) The following listed utilities will be relocated by the Government's contractor as part of the floodwall contract at Federal Government's expense.

| <u>ITEM</u>                            | <u>DESCRIPTION</u>                     | <u>PLATE</u> |
|----------------------------------------|----------------------------------------|--------------|
| W-1                                    | 12" CI Waterline                       | 3            |
| S-1                                    | 2" Force Sewer                         | 4            |
| C-2                                    | Abandoned Underground Electric Conduit | 4            |
| W-2, W-3, W-4, W-5, W-6,<br>W-9 & W-10 | 8" CI Waterlines                       | 5, 6, 7 & 8  |
| W-11                                   | 16" CI Waterline                       | 6            |
| S-5                                    | 3" Force Sewer                         | 6            |
| S-2, S-3, S-4 & S-6                    | 48" Force Sewers                       | 5, 6 & 7     |
| W-8                                    | Abandoned 8" CI Waterline              | 6 & 7        |

(5) The following listed item will be relocated by the owner, at his expense, concurrently with the floodwall construction and in coordination with the Government's contractor construction schedule.

| <u>ITEM</u> | <u>DESCRIPTION</u>                                                           | <u>PLATE</u> |
|-------------|------------------------------------------------------------------------------|--------------|
| B-1         | Concrete island, Electric Meter,<br>Toll Arm & Automatic<br>Ticketer machine | 4            |

(6) Where applicable NOD will prepare the necessary drawings and specifications for review by the owners. Where applicable NOD will review the owners' relocation plans and incorporate them into the project's plans and specifications.

d. Additional Right-of-Way. No additional right-of-way is required for the relocations identified in this document.

9. LEVEE DISTRICT RESPONSIBILITY. The Orleans Levee District, as the local assuring agency, will be requested to coordinate the railroad utility relocations, except for the falsework and other relocation work to be performed by the Government's Contractor, in accordance with this design memorandum and subject to reimbursement of allowable cost not to exceed given dollar amount. Upon notification by the NOD Real Estate Division the Levee District will advise the affected facility owners of the dollar limit available to accomplish relocation of their facilities. The dollar limit provided will be based on the approved design memorandum; however, reimbursement will be based on actual cost (less any betterments and salvage and plus removal cost, as applicable). Upon completion of the relocations for which reimbursements are to be made, the Orleans Levee District will furnish New Orleans District Real Estate Division with itemized billings which should include a copy of any contracts (including plans and specifications) covering work performed by others or itemized billings for labor and materials if the work was performed by the owner, and a copy of all cancelled checks covering related payments, prior Levee Districts payment to the contractor and/or facility owners, for New Orleans District Engineering Division's review and approval. Further records related to the reimbursement request will be subject to audit by the Government and original time cards of payrolls, material records, and accounts for all charges and expenditures for which reimbursement will be claimed from the Government will be available at all reasonable times for Government inspection. Finally, as far as practicable, separate records will be maintained for all items and accounts constituting the basis of information from which the invoices are prepared. Variances between billings and the dollar limits available shall be resolved before payments are made. Upon New Orleans District Engineering Division's review and approval of the itemized billings submitted, New Orleans District Real Estate Division will instruct the Levee District to make payment. After payments are made the Levee District will furnish New Orleans District Real Estate Division with a reimbursement assembly consisting of a resolution of the Board of Levee Commissioners of the Orleans Levee District releasing the United States of America from all liabilities and claims, a billing, and a copy of the cancelled check with endorsement or receipt for check. Upon receipt and approval of the appropriate reimbursement assembly, reimbursement will be made.

10. ATTITUDE OF OWNERS. All affected facility owners have responded satisfactorily to all requests for information and have indicated their willingness to cooperate in matters pertaining to the project.

11. ESTIMATE OF COST. Estimates of cost for accomplishing the proposed relocations have been prepared in accordance with the policy set forth in ER 1180-1-1, and are based on plans for relocation, as proposed by or agreed to by the affected owners. These estimates are presented in Tables A thru E.

TABLE A - ESTIMATE OF COST  
SEWERAGE & WATER BOARD OF NEW ORLEANS  
(OCT 1984 PRICE LEVELS)

| Cost<br>Acct.<br>No. | Description                                                                 | Unit | Qty | Unit<br>Price(\$) | Cost   |
|----------------------|-----------------------------------------------------------------------------|------|-----|-------------------|--------|
| 2                    | Relocations                                                                 |      |     |                   |        |
| 07                   | Utilities & Structure                                                       |      |     |                   |        |
|                      | <u>Item W-1, W-5, W-6 and W-9</u>                                           |      |     |                   |        |
|                      | a. Cut & temporarily<br>remove a 6-foot section of<br>C.I. water pipe.      |      |     |                   |        |
|                      | b. Install a<br>1/2 inch<br>thick steel sleeve in the<br>sheetpile          |      |     |                   |        |
|                      | c. Pass the cut pipe<br>section thru sleeve &<br>reconnect/restore service. | Each | 4   | 3,500             | 14,000 |
|                      | <u>Item W-11</u>                                                            |      |     |                   |        |
|                      | a. Cut & temporarily<br>remove a 6-foot section of<br>C.I. water pipe.      |      |     |                   |        |
|                      | b. Install a 1/2 inch<br>thick steel sleeve in the<br>sheetpile.            |      |     |                   |        |
|                      | c. Pass the cut pipe<br>section thru sleeve &<br>reconnect/restore service. | Each | 1   | 4,000             | 4,000  |



TABLE A - ESTIMATE OF COST  
SEWERAGE & WATER BOARD OF NEW ORLEANS  
(JAN 1985 PRICE LEVELS)

| Description                                                                                              | Unit          | Qty | Price(\$) | Unit Cost |
|----------------------------------------------------------------------------------------------------------|---------------|-----|-----------|-----------|
| Relocations                                                                                              |               |     |           |           |
| Utilities & Structure (cont'd)                                                                           |               |     |           |           |
| <u>Item S-2, 3, 4 &amp; 6.</u>                                                                           |               |     |           |           |
| a. Exacavate, brace & dewater<br>a 20'x20' deep opening<br>to expose facility.                           |               |     |           |           |
| b. Cut & remove a 12-foot<br>length of 7-foot diameter<br>steel casing.                                  |               |     |           |           |
| c. Cut a 12-foot length of<br>48-inch diameter C.I.<br>pipe & temporarily set<br>aside.                  |               |     |           |           |
| d. Cut opening (60" $\emptyset$ ) in<br>sheetpile & install a 60-inch<br>diameter by 2 feet long sleeve. |               |     |           |           |
| e. Re-connect a new section of<br>48-inch diameter steel pipe thru<br>the sleeve.                        |               |     |           |           |
| f. Install water packing<br>& boot seals in both ends of<br>the sleeve.                                  |               |     |           |           |
| Total (a. thru g.)                                                                                       | Lump Sum Each | 4   | 25,000    | 100,000   |
| g. Install a new 48-inch<br>diameter gate valve and<br>provide an 8' square x<br>20' deep valve manhole  |               |     |           |           |
|                                                                                                          | Lump Sum Each | 1   | 75,000    | 75,000    |
| Relocations Cost                                                                                         |               |     |           | 193,000   |
| Contingencies (25%+)                                                                                     |               |     |           | 49,000    |
| Subtotal                                                                                                 |               |     |           | 242,000   |
| E&D (6%+)                                                                                                |               |     |           | 15,000    |
| S&A (6%+)                                                                                                |               |     |           | 15,000    |
| Total                                                                                                    |               |     |           | 272,000   |

Depreciation - none, based ECI 73.209.3, 1 Jul 80.

Salvage - none, material removed and not re-used has zero salvage value.

Removal - no reimbursement, removal will effected by Government's contractor.

Betterment - none.

TABLE B - ESTIMATE OF COST  
BOARD OF COMMISSIONERS  
OF THE PORT OF NEW ORLEANS

| Cost Acct No. | Description                                                                                        | Unit     | Qty | Unit Price(\$) | Cost  |
|---------------|----------------------------------------------------------------------------------------------------|----------|-----|----------------|-------|
| 02            | Relocations                                                                                        |          |     |                |       |
| 0.1           | Roads                                                                                              |          |     |                |       |
|               | <u>Item R-2</u>                                                                                    |          |     |                |       |
|               | Restoration of Roadway Pavement - 1 1/2" Thick Asphalt                                             | Sq Yd    | 80  | 48             | 3,840 |
|               | 8" Thick Concrete Slab Over 12" Thick Shell Base                                                   |          |     |                |       |
|               | Sub-total for Roads                                                                                |          |     |                | 3,840 |
| 0.7           | Utilities & Structure                                                                              |          |     |                |       |
|               | <u>Item S-1</u>                                                                                    |          |     |                |       |
|               | a. Cut & temporarily remove a 6 -foot section of 6-inch steel casing & 2-inch F.R.P.* force main.  |          |     |                |       |
|               | b. Install a 10-inch by 24-inch long x 1/2 inch thick steel sleeve in sheetpile.                   |          |     |                |       |
|               | c. Pass the cut items thru the sleeve & reconnect/restore service.                                 |          |     |                |       |
|               | d. Install water packing & boots seals in both ends of the sleeve.                                 |          |     |                |       |
|               |                                                                                                    | Lump Sum |     | 3,000          | 3,000 |
|               | <u>Item S-5</u>                                                                                    |          |     |                |       |
|               | a. Cut & temporarily remove a 6 -foot section of 6 -inch steel casing & 3 -inch F.R.P* force main. |          |     |                |       |
|               | b. Install a 10 - inch by 24-inch long x 1/2 inch thick steel sleeve in sheetpile.                 |          |     |                |       |
|               | c. Pass the cut items thru the sleeve & reconnect/restore service.                                 |          |     |                |       |
|               | d. Install water packing & boot seals in both ends of the sleeve.                                  |          |     |                |       |
|               |                                                                                                    | Lump Sum |     |                |       |
|               |                                                                                                    | Lump Sum |     | 3,200          | 3,200 |

\*F.R.P. = FIBERGLASS REINFORCED PLASTIC

TABLE B - ESTIMATE OF COST  
 BOARD OF COMMISSIONERS  
 OF THE PORT OF NEW ORLEANS

| Cost Acct No. | Description                                                                                                 | Unit | Qty | Unit Price(\$) | Cost   |
|---------------|-------------------------------------------------------------------------------------------------------------|------|-----|----------------|--------|
| 02            | Relocations                                                                                                 |      |     |                |        |
| 07            | Utilities & Structure (cont'd)                                                                              |      |     |                |        |
|               | <u>Item W-<sup>2</sup>8, W-<sup>3</sup>4, W-<sup>4</sup>6 and W-10</u>                                      |      |     |                |        |
|               | a. Cut & temporarily remove a 6-foot section of 8-inch CI water pipe.                                       |      |     |                |        |
|               | b. Install a 14-inch by 24-inch long x 1/2 inch thick steel sleeve in sheetpile                             |      |     |                |        |
|               | c. Pass the cut pipe section thru sleeve, place waterproof packing & boot seals, reconnect/restore service. | Each | 4   | 3,500          | 14,000 |
|               | Subtotal for Utilities & Structures                                                                         |      |     |                | 20,200 |
|               | Relocations Cost                                                                                            |      |     |                | 24,040 |
|               | Contingencies (25%+)                                                                                        |      |     |                | 5,960  |
|               | Subtotal                                                                                                    |      |     |                | 30,000 |
|               | E&D (6%+)                                                                                                   |      |     |                | 2,000  |
|               | S&A (6%+)                                                                                                   |      |     |                | 2,000  |
|               | Total                                                                                                       |      |     |                | 34,000 |

Depreciation - none, based ECI 73.209.3, 1 Jul 80  
 Salvage - none, material removed and not re-used has zero salvage value.  
 Removal - no reimbursement, removal will effected by Government's contractor.  
 Betterment - none.

TABLE C - ESTIMATE OF COST  
 NEW ORLEANS PUBLIC BELT RAILROAD  
 (OCT 1984 PRICE LEVELS)

| Cost<br>Acct<br>No. | Description                                                                                          | Unit     | Qty | Unit<br>Price(\$) | Cost   |
|---------------------|------------------------------------------------------------------------------------------------------|----------|-----|-------------------|--------|
| 02                  | Relocations                                                                                          |          |     |                   |        |
| 0.4                 | Railroads                                                                                            |          |     |                   |        |
|                     | Re-aligning of<br>a section of track.                                                                | LF       | 150 | 80                | 12,000 |
|                     | Temporarily remove<br>replace track section<br>over falsework to<br>accommodate gate<br>construction | LF       | 30  | 200               | 6,000  |
|                     | Permanently re-install<br>track section                                                              | LF       | 30  | 120               | 3,600  |
|                     | Temporary Falsework<br>bridge                                                                        | Lump Sum |     |                   | 16,000 |
|                     | Relocation Cost                                                                                      |          |     |                   | 37,600 |
|                     | Contingencies (25%)                                                                                  |          |     |                   | 9,400  |
|                     | Subtotals                                                                                            |          |     |                   | 47,000 |
|                     | E&D (6%+)                                                                                            |          |     |                   | 3,000  |
|                     | S&A (6%+)                                                                                            |          |     |                   | 3,000  |
|                     | Totals                                                                                               |          |     |                   | 53,000 |

Depreciation - none, based on ECI 73.209.3, 1 Jul 80.

Salvage - none, material removed and not re-used has zero salvage value.

Removal - no reimbursement, removal will effected by Government's contractor.

Betterment - none.

TABLE D - ESTIMATE OF COST  
 CITY OF NEW ORLEANS DEPARTMENT OF UTILITIES  
 (OCTOBER 1984 PRICE LEVELS)

| Cost<br>Acct<br>No. | Description                                                                                                                                                                                  | Unit          | Qty | Unit<br>Price(\$) | Cost  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----|-------------------|-------|
| 02                  | Relocations                                                                                                                                                                                  |               |     |                   |       |
| 0.7                 | Utilities & Structures                                                                                                                                                                       |               |     |                   |       |
|                     | <u>Items L-10, L-11 &amp; L-12</u>                                                                                                                                                           |               |     |                   |       |
|                     | Temporarily remove 3 lightpoles<br>in coordination with the flood<br>wall construction, inactivate<br>electric feeders and re-install<br>lightpoles after construction<br>work is completed. | Lump Sum Each | 3   | 600               | 1,800 |
|                     | <u>Items P-1 &amp; P-2</u>                                                                                                                                                                   |               |     |                   |       |
|                     | Temporarily remove overhead<br>aerial electric feeder serving<br>existing street lights. Replace<br>after work is complete.                                                                  | LF            | 800 | 3.00              | 2,400 |
|                     | <u>Item C-2</u>                                                                                                                                                                              |               |     |                   |       |
|                     | Remove abandoned electric<br>conduit                                                                                                                                                         | LF            | 12  | Lump Sum          | 500   |
|                     | Relocations Cost                                                                                                                                                                             |               |     |                   | 4,700 |
|                     | Contingencies (25%+)                                                                                                                                                                         |               |     |                   | 1,300 |
|                     | Subtotal <u>5/</u>                                                                                                                                                                           |               |     |                   | 6,000 |
|                     | E&D (6%+)                                                                                                                                                                                    |               |     |                   | 500   |
|                     | S&A (6%+)                                                                                                                                                                                    |               |     |                   | 500   |
|                     | Total                                                                                                                                                                                        |               |     |                   | 7,000 |

Depreciation - none, based on ECI 73.209.3, 1 Jul 80.  
 Salvage - none, material removed and not re-used has zero salvage value.  
 Removal - no reimbursement, removal will effected by Government's  
 contractor.  
 Betterment - none.

TABLE E  
 MISCELLANEOUS (OWNER UNKNOWN)  
 (OCTOBER 1984 PRICE LEVELS)

| Cost<br>Acct<br>No. | Description            | Unit | Qty | Unit<br>Price(\$) | Cost  |
|---------------------|------------------------|------|-----|-------------------|-------|
| 02                  | Relocations            |      |     |                   |       |
| 0.7                 | Utilities & Structures |      |     |                   |       |
|                     | Item W-8               |      |     |                   |       |
|                     | Uncover & remove       |      |     |                   |       |
|                     | 8" CI pipeline         |      |     |                   |       |
|                     | located approx. 8 feet |      |     |                   |       |
|                     | below grade.           | LF   | 100 | 50                | 5,000 |
|                     | Relocations Cost       |      |     |                   | 5,000 |
|                     | Contingencies (25%+)   |      |     |                   | 1,000 |
|                     | Subtotal               |      |     |                   | 6,000 |
|                     | E&D (6%+)              |      |     |                   | 500   |
|                     | S&A (6%+)              |      |     |                   | 500   |
|                     | Total                  |      |     |                   | 7,000 |

Depreciation - none, based on ECI 73.209.3, 1 Jul 80.

Salvage - none, material removed and not re-used has zero salvage value.

Removal - no reimbursement, removal will be affected by Government's contractor.

Betterment - none.

TABLE F  
MISSISSIPPI RIVER LEVEE CONSTRUCTION  
COST COMPARISON SUMMARY

| Cost Acct No.   |             | Current PB-3<br>(1 Oct 84) | Current Working Estimate | Difference from Proposed PB-3 |
|-----------------|-------------|----------------------------|--------------------------|-------------------------------|
| 02              | Relocations |                            |                          |                               |
| 0.1             | Roads       | 6                          | 5                        | - 1                           |
| 0.4             | Railroads   | 40                         | 47                       | + 7                           |
| 0.7             | Utilities   | 266                        | 279                      | + 13                          |
|                 | Subtotal    | 312                        | 331                      | + 19                          |
| 30              | E&D         | 21                         | 21                       | 0                             |
| 31              | S&A         | 21                         | 21                       | 0                             |
| Total <u>1/</u> |             | 354                        | 373                      | + 19                          |

1/ Incremental cost.

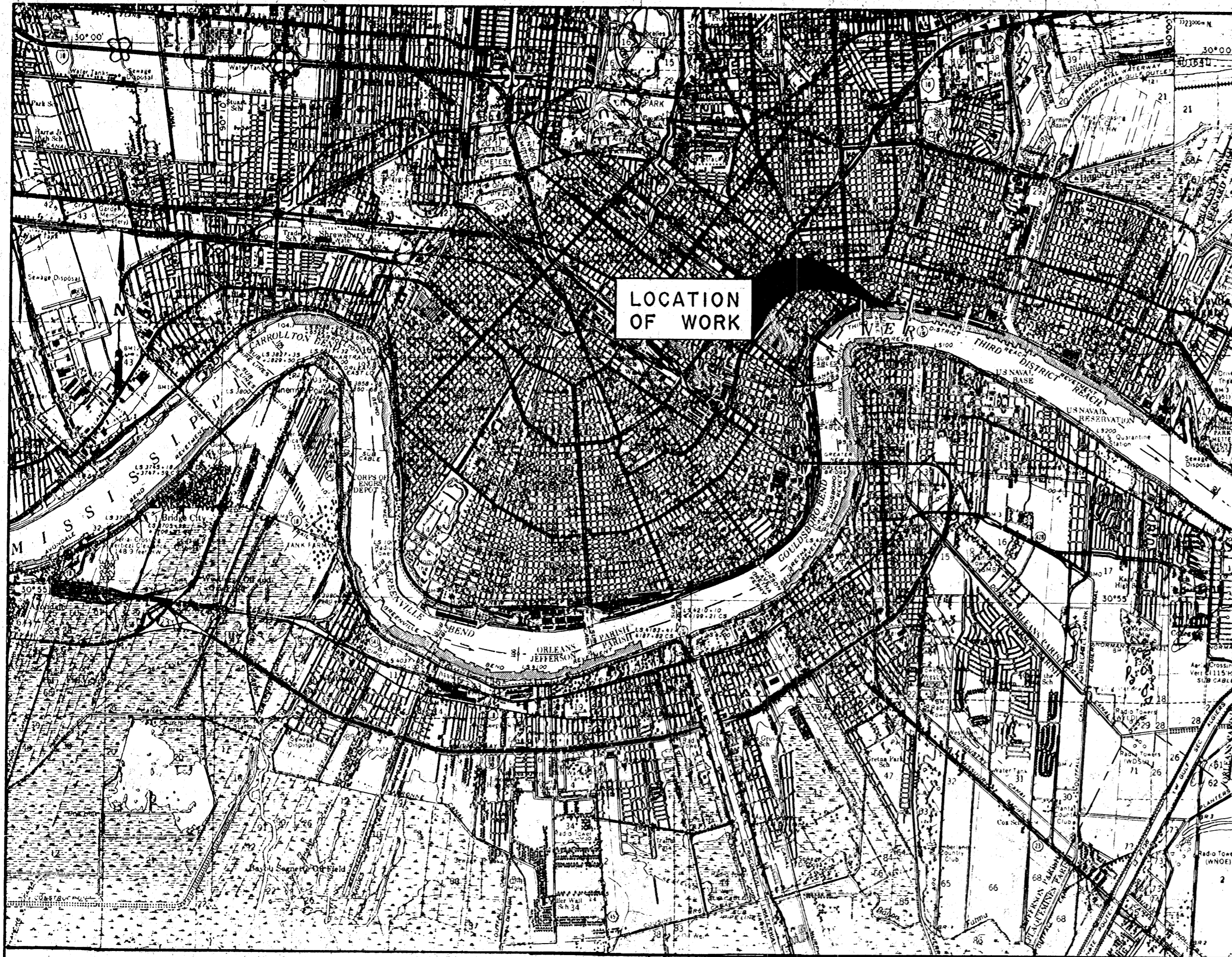
12. JUSTIFICATION FOR COST REVISIONS. The difference in costs, as shown on Table E, is accounted for as follows:

- a. Roads: The \$1,000 difference is due to the availability of a more detailed knowledge of the work scope.
- b. Railroads: The \$7,000 increase in cost is directly attributable to an additional item of work (i.e. re-alignment of RR-1 to clear the floodwall) not previously identified as necessary.
- c. Utilities: The current working estimate reflects a \$13,000 increase over the previous estimate. This increase is due to the availability of more detailed relocation information. The current working estimate for utilities includes only those items that, are now known with certainty, will have to be relocated. The items listed below are not included in the utilities relocations cost estimate since at present they may or may not be relocated depending on the decisions made during the remaining design phase or during the actual floodwall construction operations. These items will be addressed, if required, with an appropriate supplement to this RDM.

| <u>Item</u> | <u>Decription</u> | <u>Owner</u>    | <u>Plate No.</u> |
|-------------|-------------------|-----------------|------------------|
| PM-2/4      | Parking Meter     | Dept of Streets | 4                |
| PM-6/8      | " "               | "               | 4                |
| PM-10/12    | " "               | "               | 4                |
| PM-14/16    | " "               | "               | 4                |
| PM-18/20    | " "               | "               | 5                |
| W-6A        | 8" CI Waterline   | S&WB            | 7                |
| W-7         | 12" CI Waterline  | S&WB            | 6, 7 & 8         |
| W-13        | 6" CI Waterline   | Dock Board      | 8                |
| W-14        | 6" CI Waterline   | Dock Board      | 7                |
| W-16        | 8" CI Waterline   | Dock Board      | 5                |
| D-1         | 15" Drainline     | S&WB            | 6                |
| D-2         | 12" Drainline     | S&WB            | 7                |
| D-3         | 12" Drainline     | S&WB            | 7                |

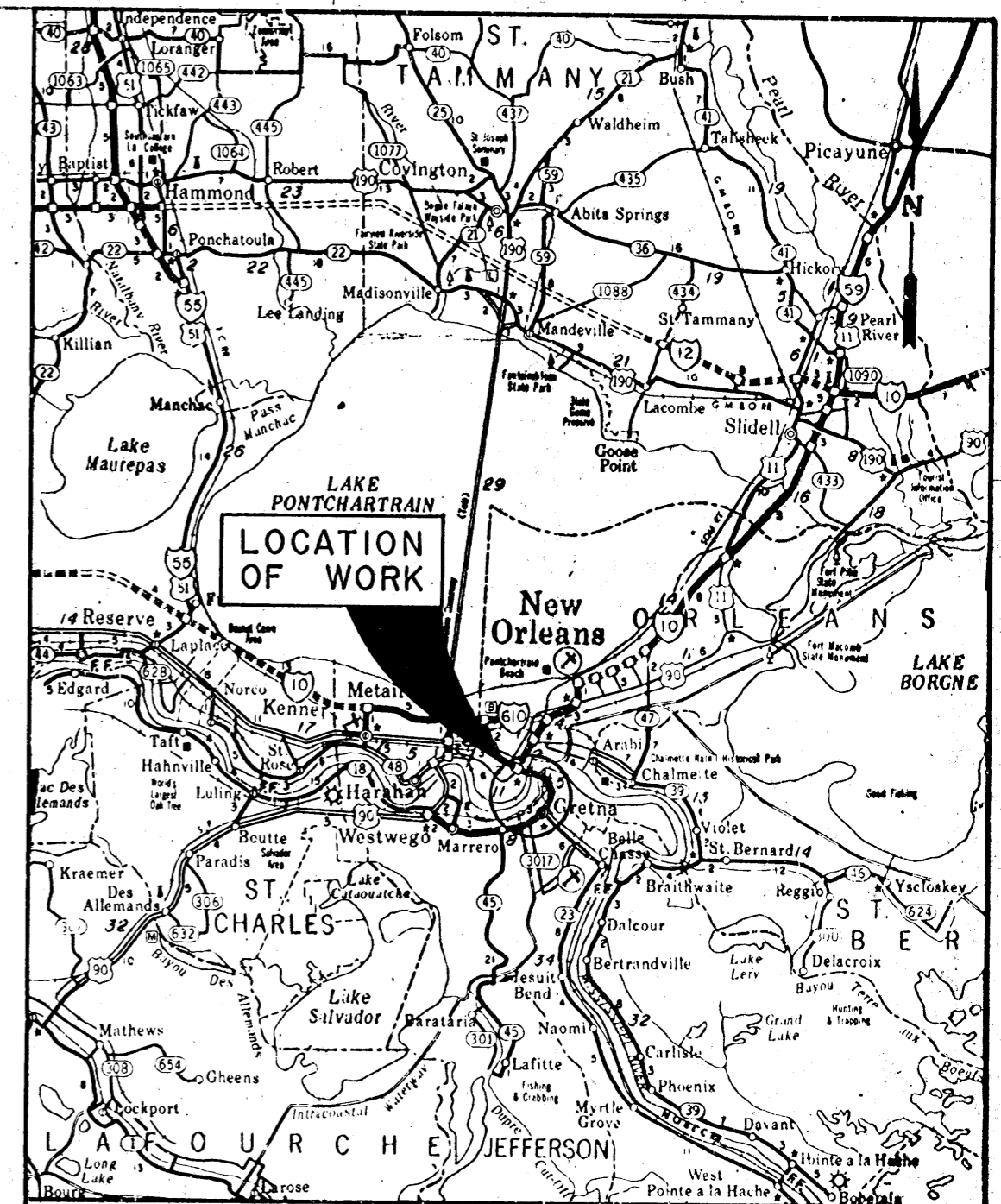
13. RECOMMENDATION. It is recommended that this design memorandum be approved as the basis for reimbursing the Orleans Levee District and floodwall contractor for costs incurred in accomplishing the road, railroad and utility relocations herein described.





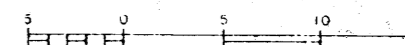
LOCATION MAP

SCALE 1:31,680



VICINITY MAP

SCALE IN MILES



MISSISSIPPI RIVER LEVEES

ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

BARRACKS-MONTEGUT FLOODWALL

DESIGN MEMORANDUM NO. 74

RELOCATION OF FACILITIES

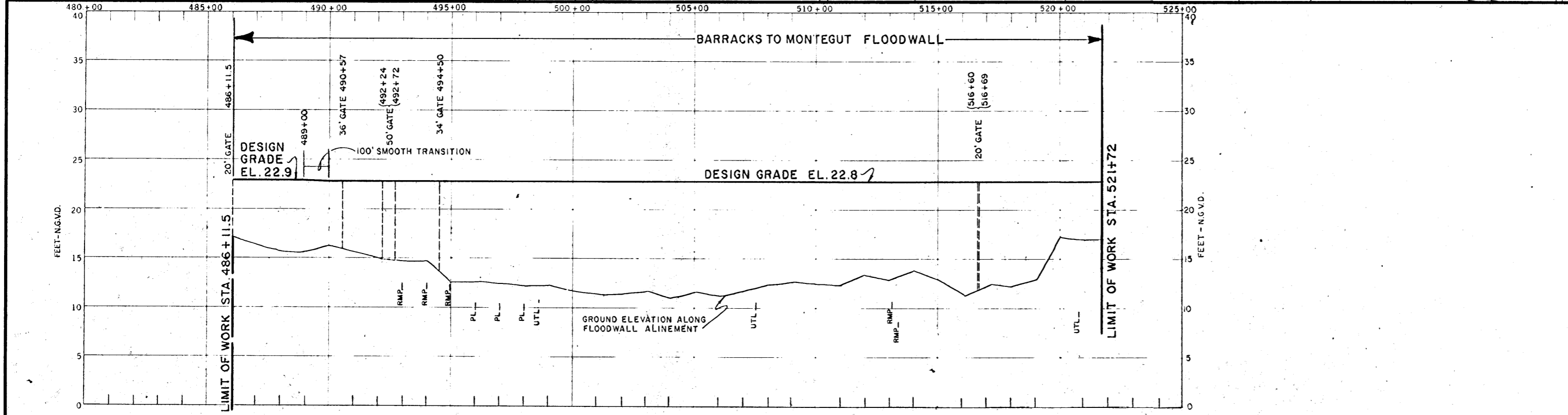
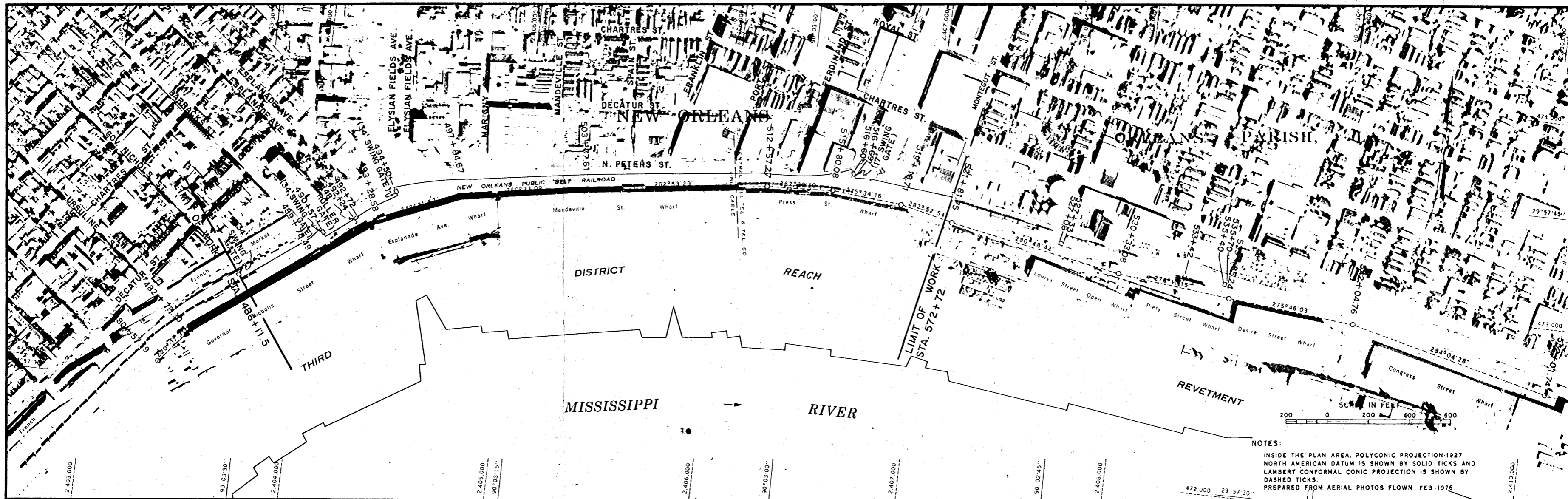
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE:

PLATE I

FILE NO.



MISSISSIPPI RIVER LEVEES  
 ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

DESIGN MEMORANDUM NO. 74  
 RELOCATION OF FACILITIES  
 PROJECT PLAN

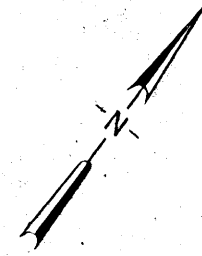
U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
 CORPS OF ENGINEERS

DATE: \_\_\_\_\_

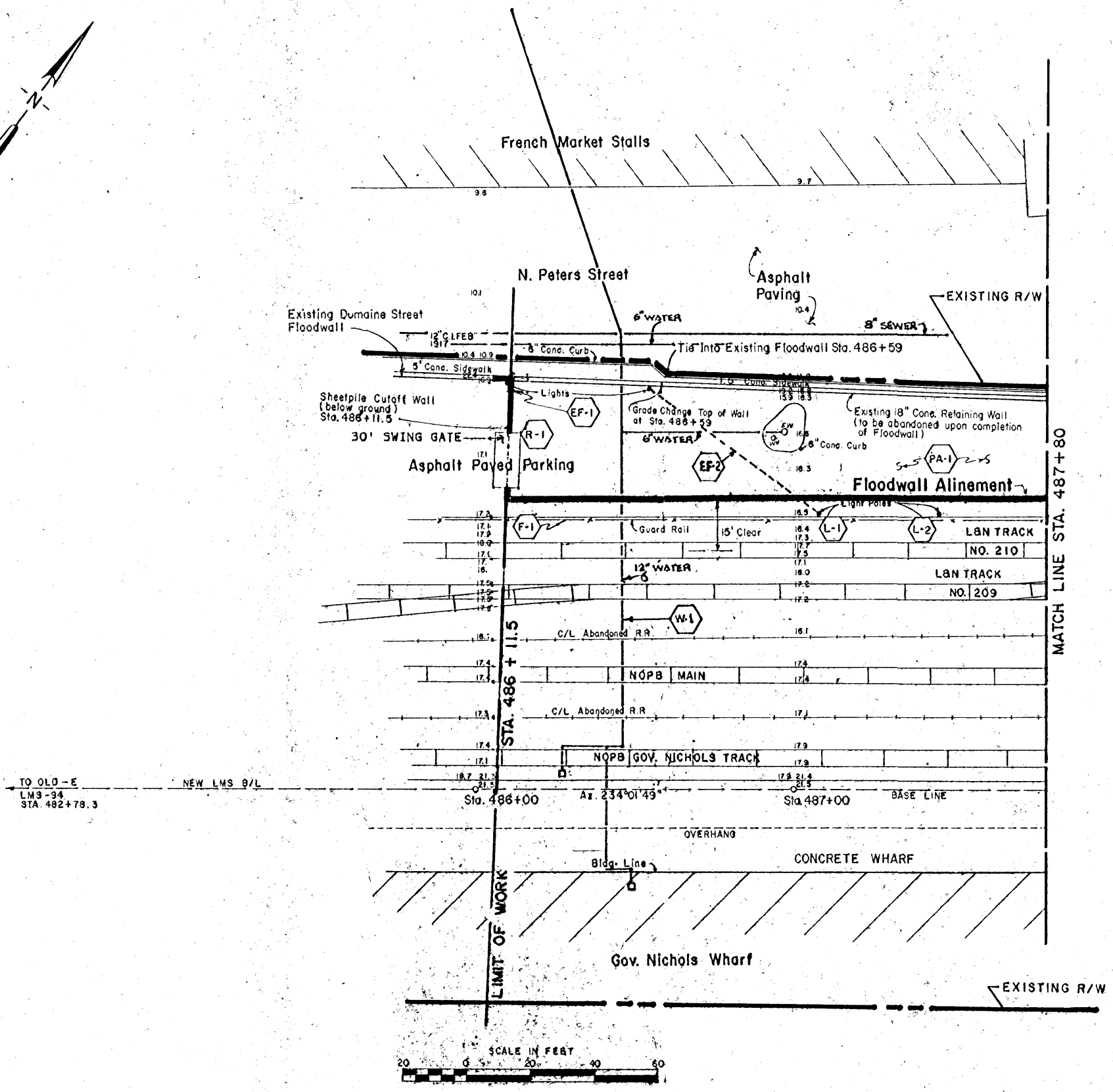
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**PLATE 2**

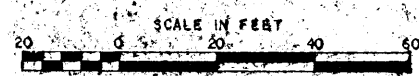




| EXISTING FACILITIES |                             |                 |                       |             |
|---------------------|-----------------------------|-----------------|-----------------------|-------------|
| ITEM                | DESCRIPTION                 | OWNER           | STATION               | RELOCATE BY |
| W-1                 | 12" CI. WATERLINE           | S&WB            | 486+00                | OWNER       |
| L-1 & L-2           | LIGHT POLES (2)             | FRENCH MKT. CO. | From 487+09 To 487+46 | OWNER       |
| R-1                 | DRIVEWAY                    | FM CO.          | 486+10                | U.S. GOV'T. |
| EF-1                | ELECTRICAL FEEDER           | FM CO.          | 486+11                | OWNER       |
| F-1                 | GUARD RAIL                  | FM CO.          | From 486+11 To 490+00 | OWNER       |
| PA-1                | PARKING AREA                | FM CO.          | From 486+11 To 490+00 | OWNER       |
| EF-1                | ELECTRIC FEEDER & LUMINAIRE | FM CO.          | 486+11                | OWNER       |
| EF-2                | UNDERGROUND ELECTRIC FEEDER | FMC             | 487+01                | OWNER       |



TO OLD - E  
LMS-94  
STA. 482+78.3



MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

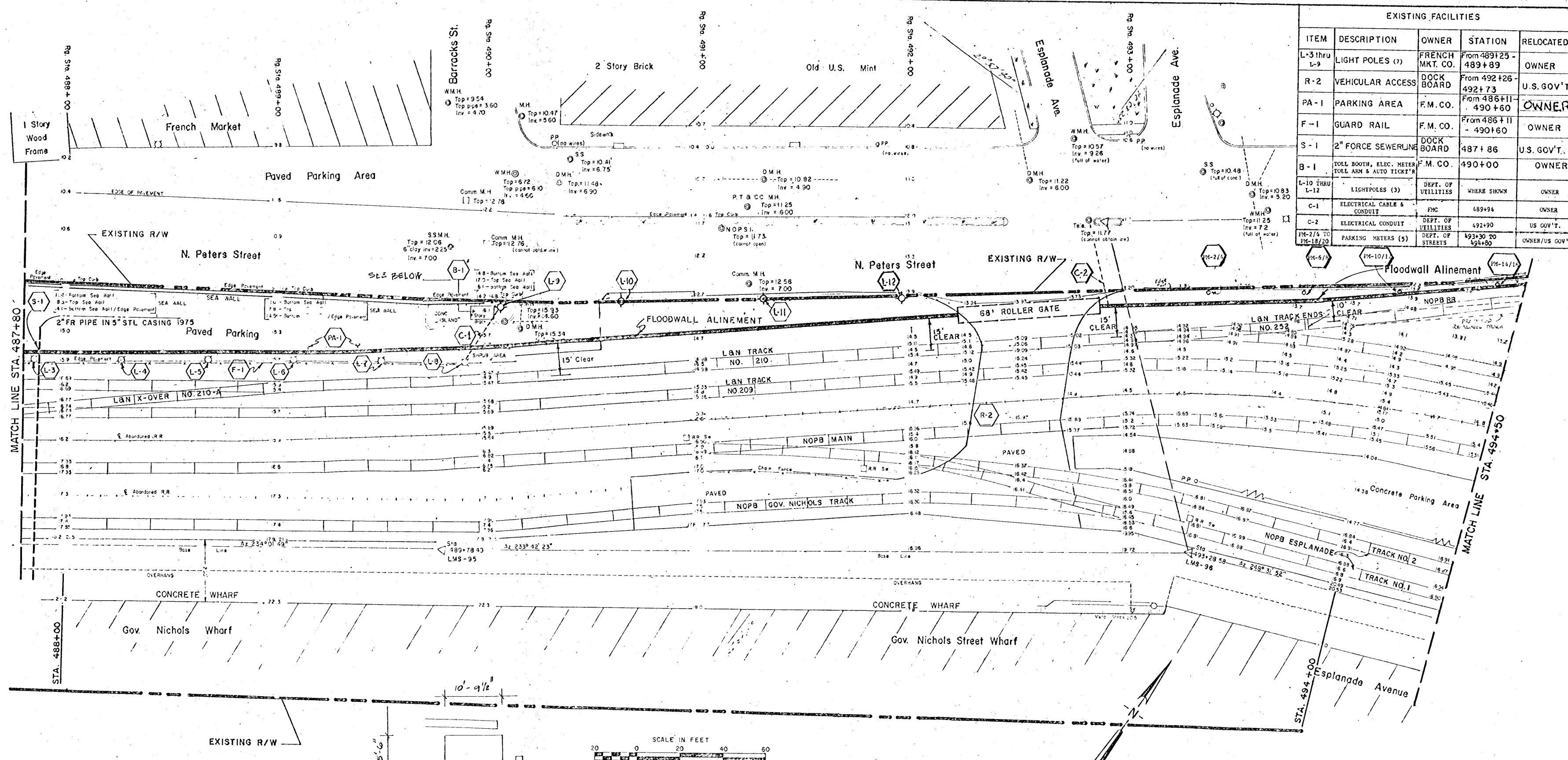
DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_

FILE NO. \_\_\_\_\_

**PLATE 3**



| EXISTING FACILITIES |                                                  |                    |                      |                 |
|---------------------|--------------------------------------------------|--------------------|----------------------|-----------------|
| ITEM                | DESCRIPTION                                      | OWNER              | STATION              | RELOCATED BY    |
| L-3 thru L-9        | LIGHT POLES (7)                                  | FRENCH MKT. CO.    | From 489125 - 489+89 | OWNER           |
| R-2                 | VEHICULAR ACCESS                                 | DOCK BOARD         | From 492+26 - 492+73 | U.S. GOV'T.     |
| PA-1                | PARKING AREA                                     | F.M. CO.           | From 486+11 - 490+60 | OWNER           |
| F-1                 | GUARD RAIL                                       | F.M. CO.           | From 486+11 - 490+60 | OWNER           |
| S-1                 | 2" FORCE SEWERLINE                               | DOCK BOARD         | 487+86               | U.S. GOV'T.     |
| B-1                 | TOLL BOOTH, ELEC. METER TOLL ARM & AUTO TICKET'R | F.M. CO.           | 490+00               | OWNER           |
| L-10 THRU L-12      | LIGHTPOLES (3)                                   | DEPT. OF UTILITIES | WHERE SHOWN          | OWNER           |
| C-1                 | ELECTRICAL CABLE & CONDUIT                       | FMC                | 489+94               | OWNER           |
| C-2                 | ELECTRICAL CONDUIT                               | DEPT. OF UTILITIES | 492+90               | US GOV'T.       |
| PM-2/4 TO PM-18/20  | PARKING METERS (5)                               | DEPT. OF STREETS   | 493+30 TO 494+60     | OWNER/US GOV'T. |

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

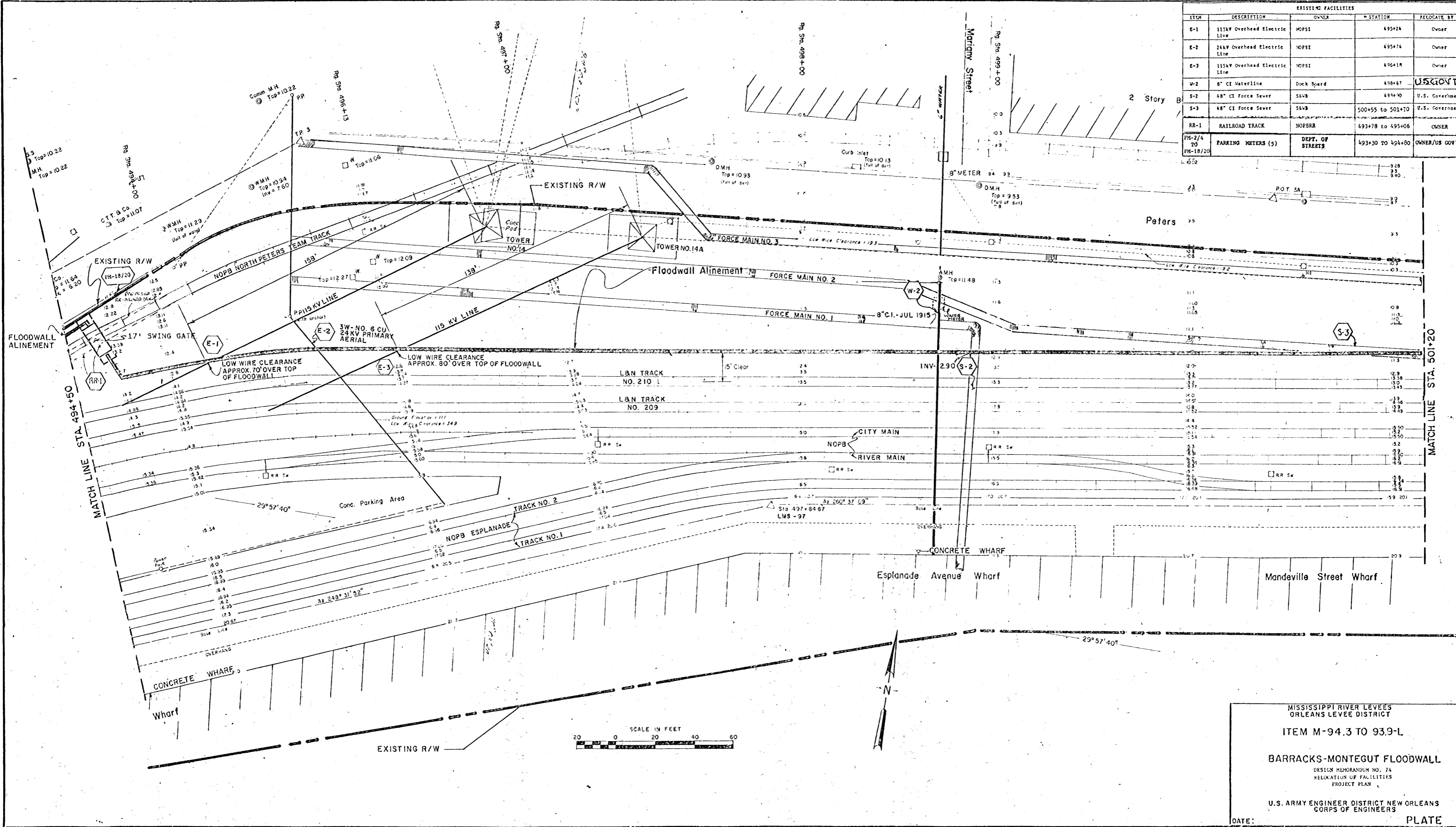
ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_ PLATE 4



| ITEM               | DESCRIPTION                  | EXISTING FACILITIES |                  | RELOCATE BY     |
|--------------------|------------------------------|---------------------|------------------|-----------------|
|                    |                              | OWNER               | STATION          |                 |
| E-1                | 115KV Overhead Electric Line | NOPSI               | 495+24           | Owner           |
| E-2                | 24KV Overhead Electric Line  | NOPSI               | 495+74           | Owner           |
| E-3                | 115KV Overhead Electric Line | NOPSI               | 496+14           | Owner           |
| W-2                | 8" CI Waterline              | Dock Board          | 498+67           | USGOV'T.        |
| S-2                | 48" CI Force Sever           | SAV'B               | 494+70           | U.S. Government |
| S-3                | 48" CI Force Sever           | SAV'B               | 500+55 to 501+70 | U.S. Government |
| RR-1               | RAILROAD TRACK               | NOPRR               | 493+78 to 495+06 | OWNER           |
| PM-2/4 TO PM-19/20 | PARKING METERS (5)           | DEPT. OF STREETS    | 493+30 to 494+80 | OWNER/US GOV'T. |

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

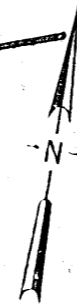
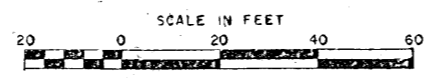
**BARRACKS-MONTEGUT FLOODWALL**

DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_

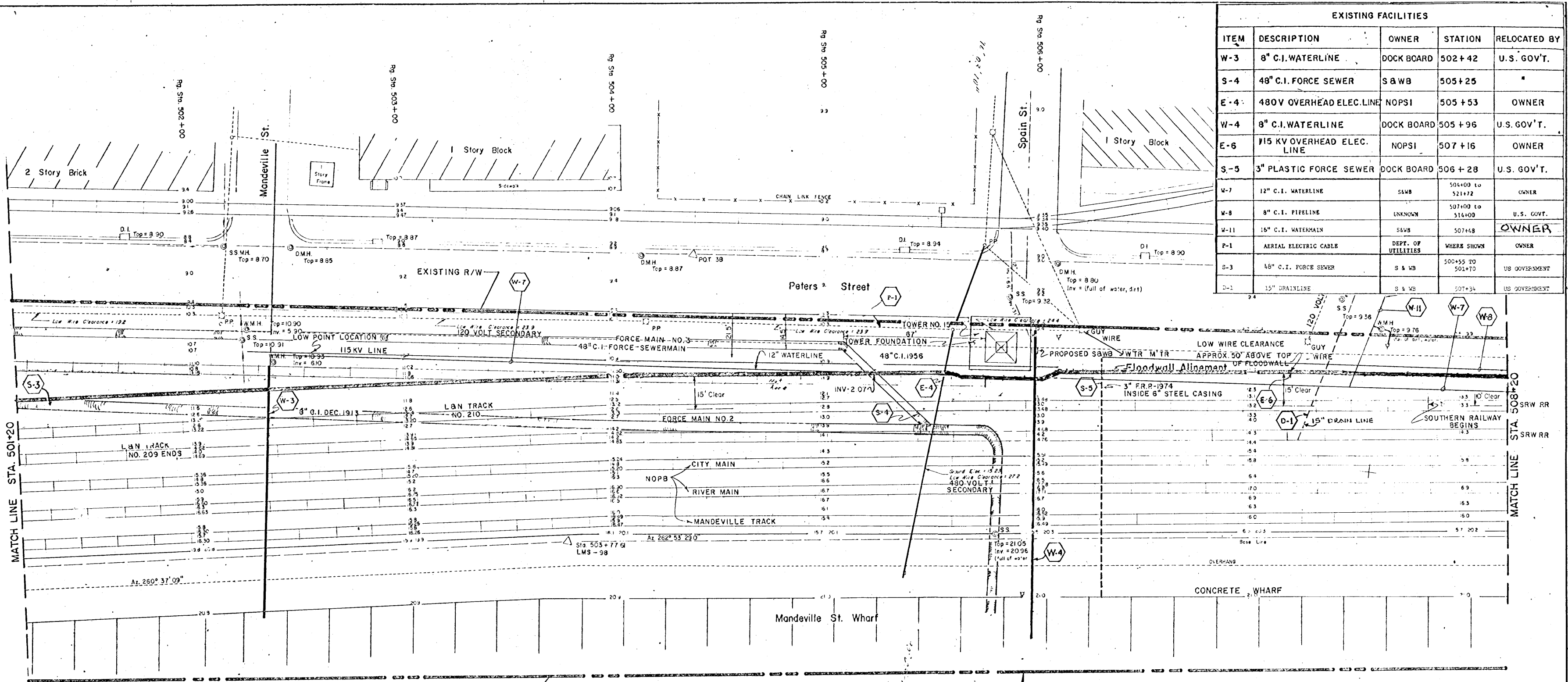
PLATE 5



MATCH LINE STA. 501+20

MATCH LINE STA. 494+50

| EXISTING FACILITIES |                            |                    |                  |               |
|---------------------|----------------------------|--------------------|------------------|---------------|
| ITEM                | DESCRIPTION                | OWNER              | STATION          | RELOCATED BY  |
| W-3                 | 8" C.I. WATERLINE          | DOCK BOARD         | 502+42           | U.S. GOV'T.   |
| S-4                 | 48" C.I. FORCE SEWER       | S & WB             | 505+25           | "             |
| E-4                 | 480V OVERHEAD ELEC. LINE   | NOPSI              | 505+53           | OWNER         |
| W-4                 | 8" C.I. WATERLINE          | DOCK BOARD         | 505+96           | U.S. GOV'T.   |
| E-6                 | 115 KV OVERHEAD ELEC. LINE | NOPSI              | 507+16           | OWNER         |
| S-5                 | 3" PLASTIC FORCE SEWER     | DOCK BOARD         | 506+28           | U.S. GOV'T.   |
| W-7                 | 12" C.I. WATERLINE         | S&WB               | 504+00 to 521+72 | OWNER         |
| W-8                 | 8" C.I. PIPELINE           | UNKNOWN            | 507+00 to 514+00 | U.S. GOV'T.   |
| W-11                | 16" C.I. WATERMAIN         | S&WB               | 507+48           | OWNER         |
| P-1                 | AERIAL ELECTRIC CABLE      | DEPT. OF UTILITIES | WHERE SHOWN      | OWNER         |
| S-3                 | 18" C.I. FORCE SEWER       | S & WB             | 500+55 TO 501+70 | US GOVERNMENT |
| D-1                 | 15" DRAINLINE              | S & WB             | 507+34           | US GOVERNMENT |



MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

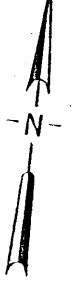
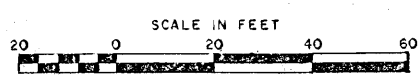
ITEM M-94.3 TO 93.9-L

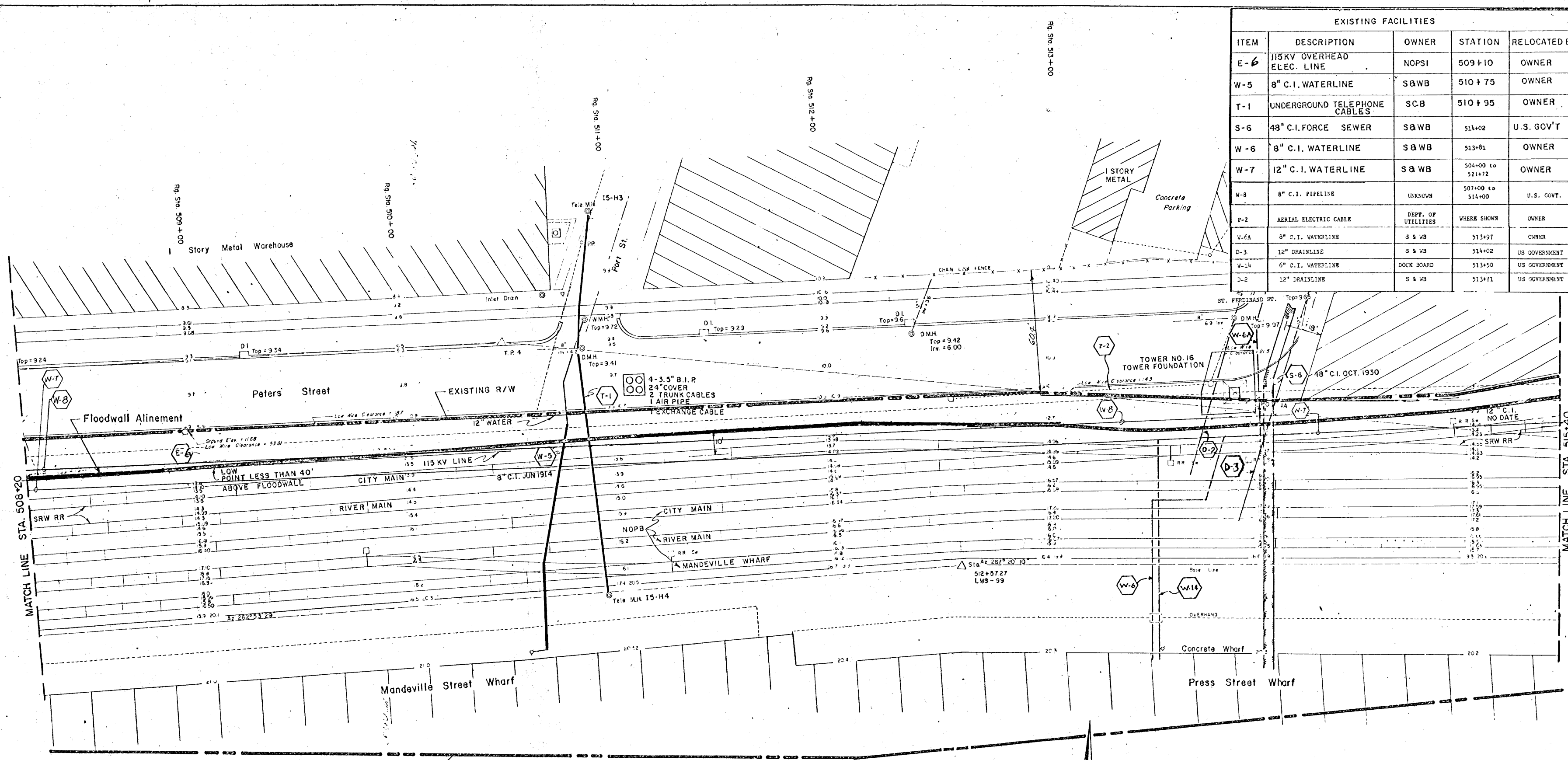
BARRACKS-MONTEGUT FLOODWALL  
DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

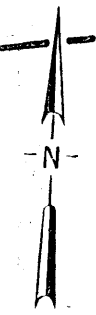
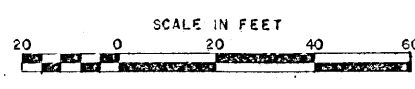
DATE: \_\_\_\_\_

PLATE 6





| EXISTING FACILITIES |                              |                    |                  |               |
|---------------------|------------------------------|--------------------|------------------|---------------|
| ITEM                | DESCRIPTION                  | OWNER              | STATION          | RELOCATED BY  |
| E-6                 | 115KV OVERHEAD ELEC. LINE    | NOPSI              | 509+10           | OWNER         |
| W-5                 | 8" C.I. WATERLINE            | S&WB               | 510+75           | OWNER         |
| T-1                 | UNDERGROUND TELEPHONE CABLES | SCB                | 510+95           | OWNER         |
| S-6                 | 48" C.I. FORCE SEWER         | S&WB               | 514+02           | U.S. GOV'T    |
| W-6                 | 8" C.I. WATERLINE            | S&WB               | 513+81           | OWNER         |
| W-7                 | 12" C.I. WATERLINE           | S & WB             | 504+00 to 521+72 | OWNER         |
| W-8                 | 8" C.I. PIPELINE             | UNKNOWN            | 507+00 to 514+00 | U.S. GOV'T.   |
| P-2                 | AERIAL ELECTRIC CABLE        | DEPT. OF UTILITIES | WHERE SHOWN      | OWNER         |
| W-6A                | 8" C.I. WATERLINE            | S & WB             | 513+97           | OWNER         |
| D-3                 | 12" DRAINLINE                | S & WB             | 514+02           | US GOVERNMENT |
| W-14                | 6" C.I. WATERLINE            | DOCK BOARD         | 513+50           | US GOVERNMENT |
| D-2                 | 12" DRAINLINE                | S & WB             | 513+71           | US GOVERNMENT |



MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

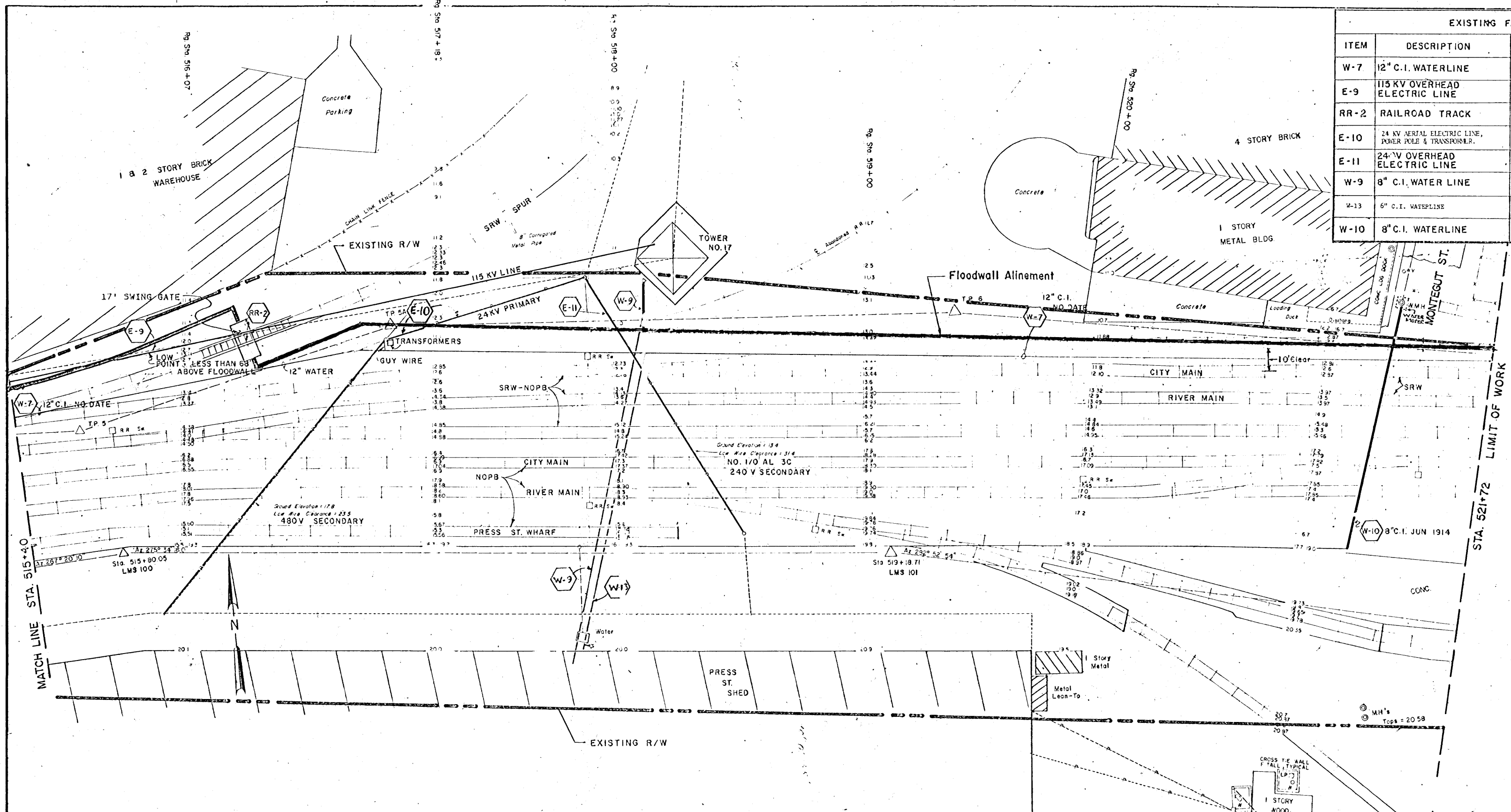
DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_ **PLATE 7**



| EXISTING FACILITIES |                                                       |            |                  |               |
|---------------------|-------------------------------------------------------|------------|------------------|---------------|
| ITEM                | DESCRIPTION                                           | OWNER      | STATION          | RELOCATED BY  |
| W-7                 | 12" C.I. WATERLINE                                    | S&WB       | 504+00 to 521+72 | OWNER         |
| E-9                 | 115 KV OVERHEAD ELECTRIC LINE                         | NOPSI      | 515 + 80         | OWNER         |
| RR-2                | RAILROAD TRACK                                        | SRW        | 516 + 35         | OWNER         |
| E-10                | 24 KV AERIAL ELECTRIC LINE, POWER POLE & TRANSFORMER. | NOPSI      | 516 + 90         | OWNER         |
| E-11                | 24 KV OVERHEAD ELECTRIC LINE                          | NOPSI      | 518 + 03         | OWNER         |
| W-9                 | 8" C.I. WATER LINE                                    | S&WB       | 518 + 11         | OWNER         |
| W-13                | 6" C.I. WATERLINE                                     | DOCK BOARD | 518+11           | US GOVERNMENT |
| W-10                | 8" C.I. WATERLINE                                     | DOCKBOARD  | 521+28           | U.S. GOV'T.   |



MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

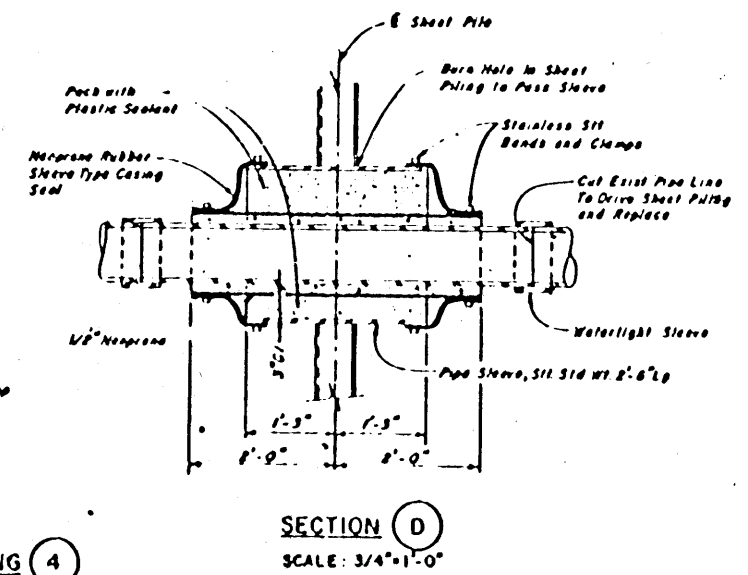
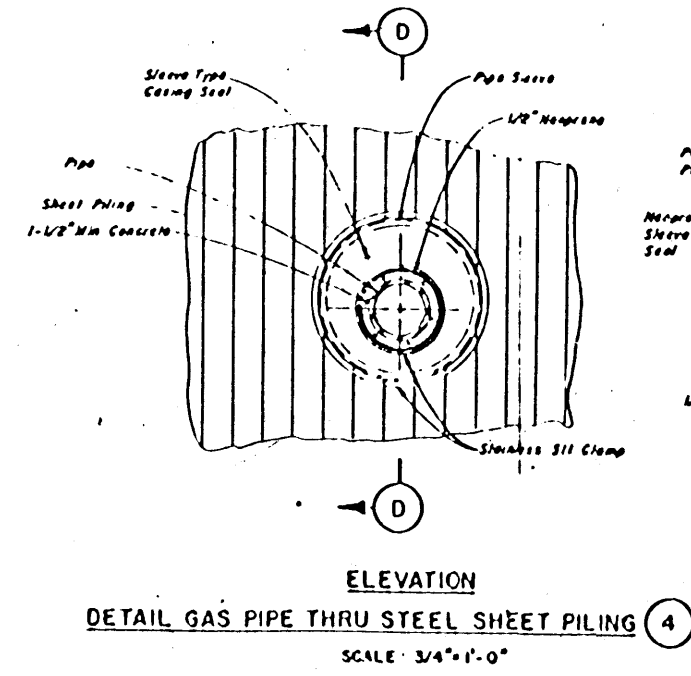
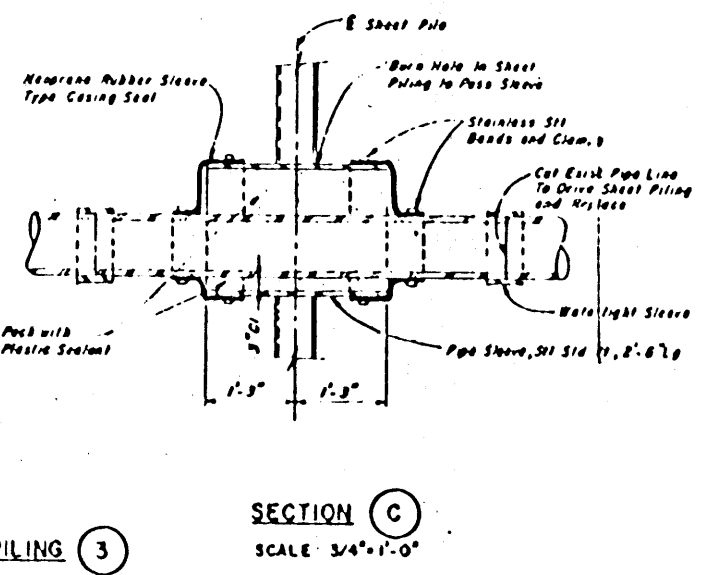
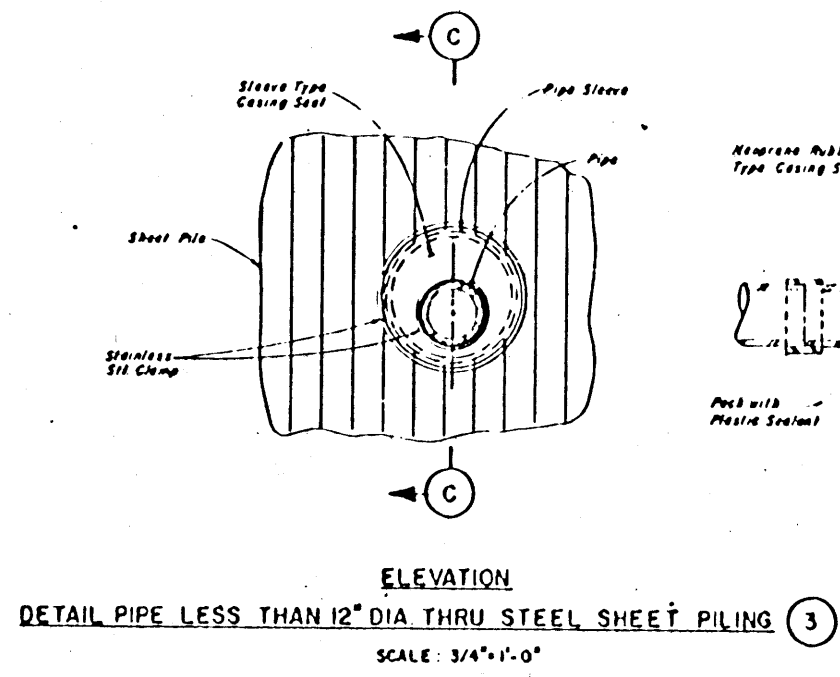
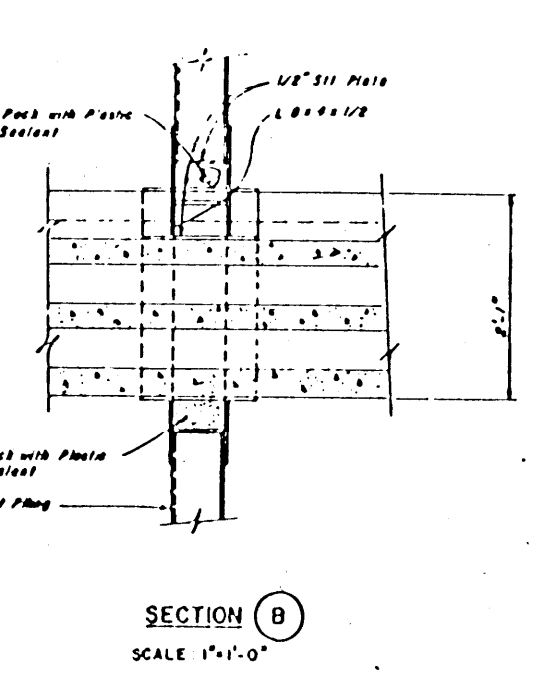
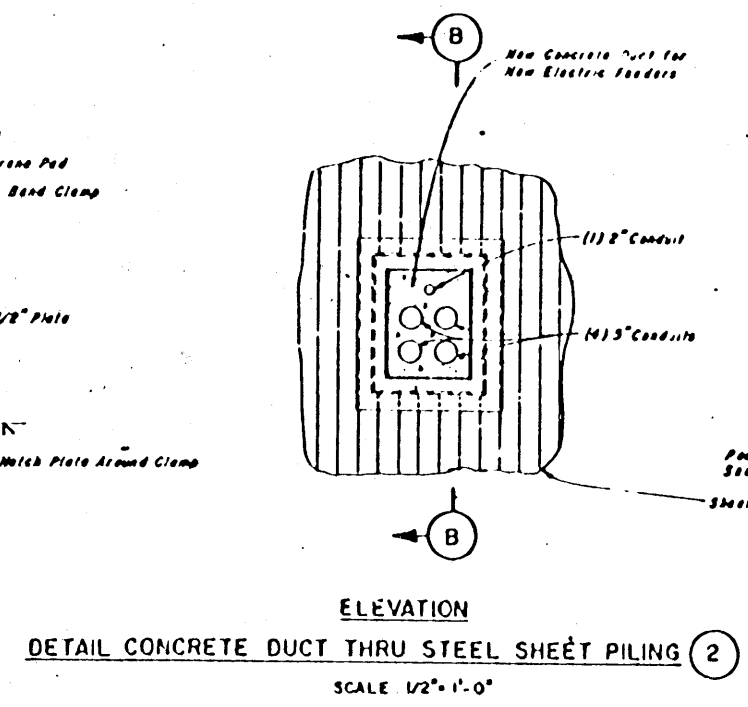
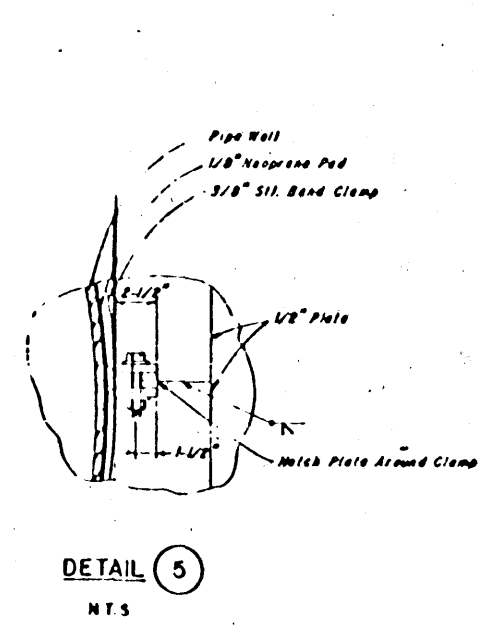
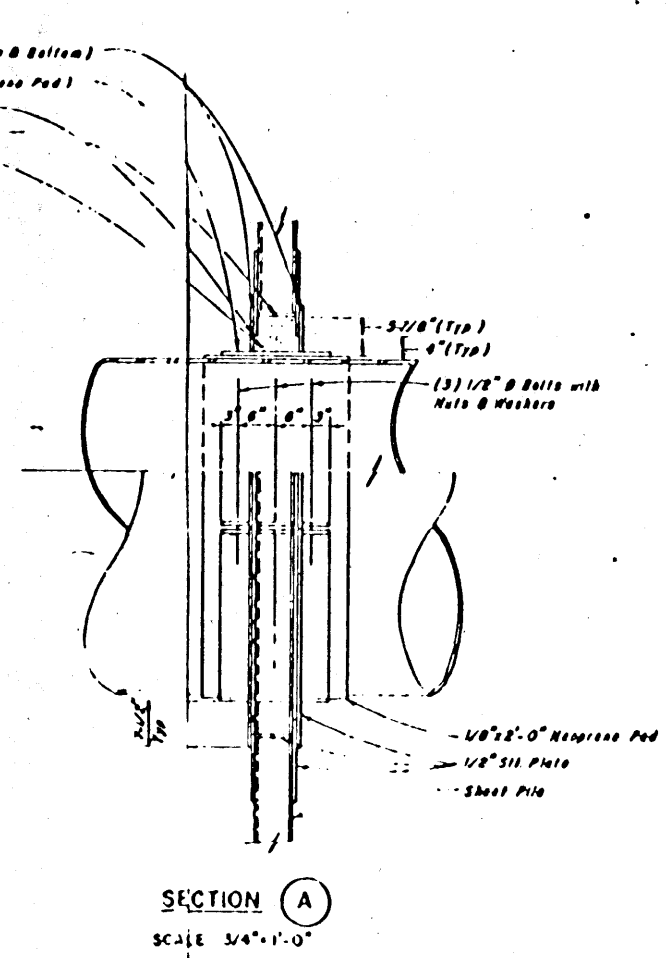
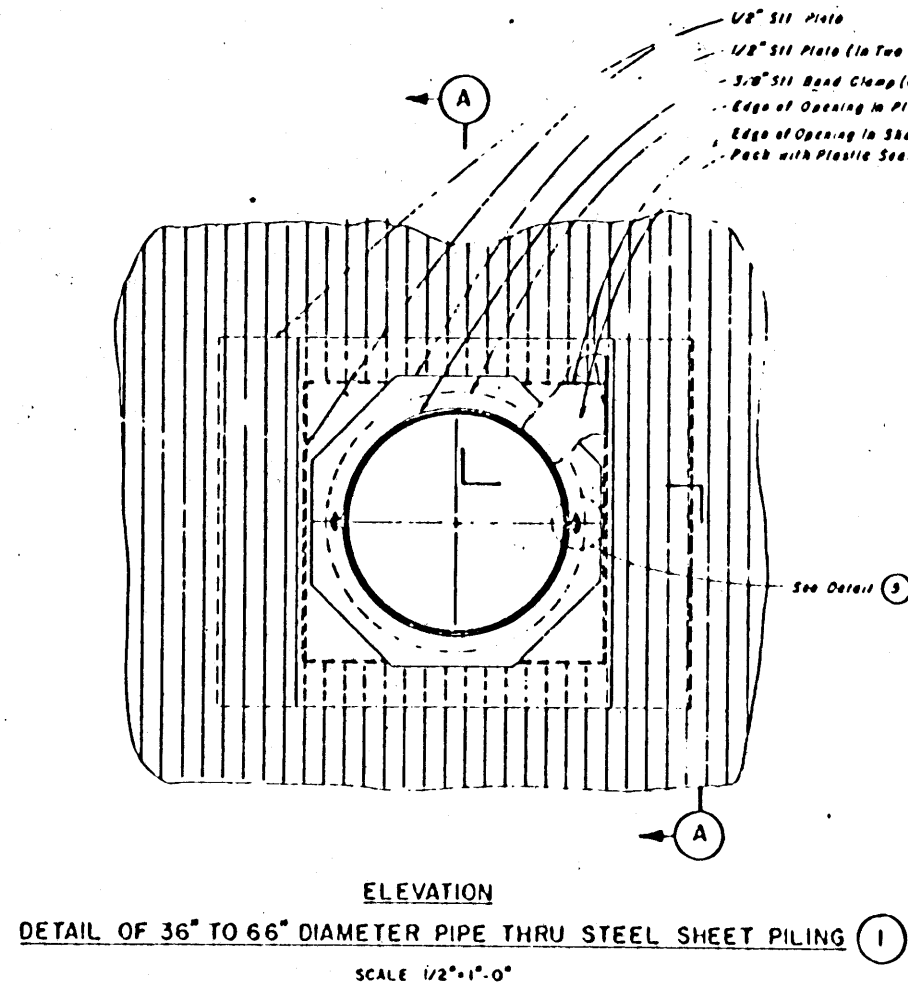
DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

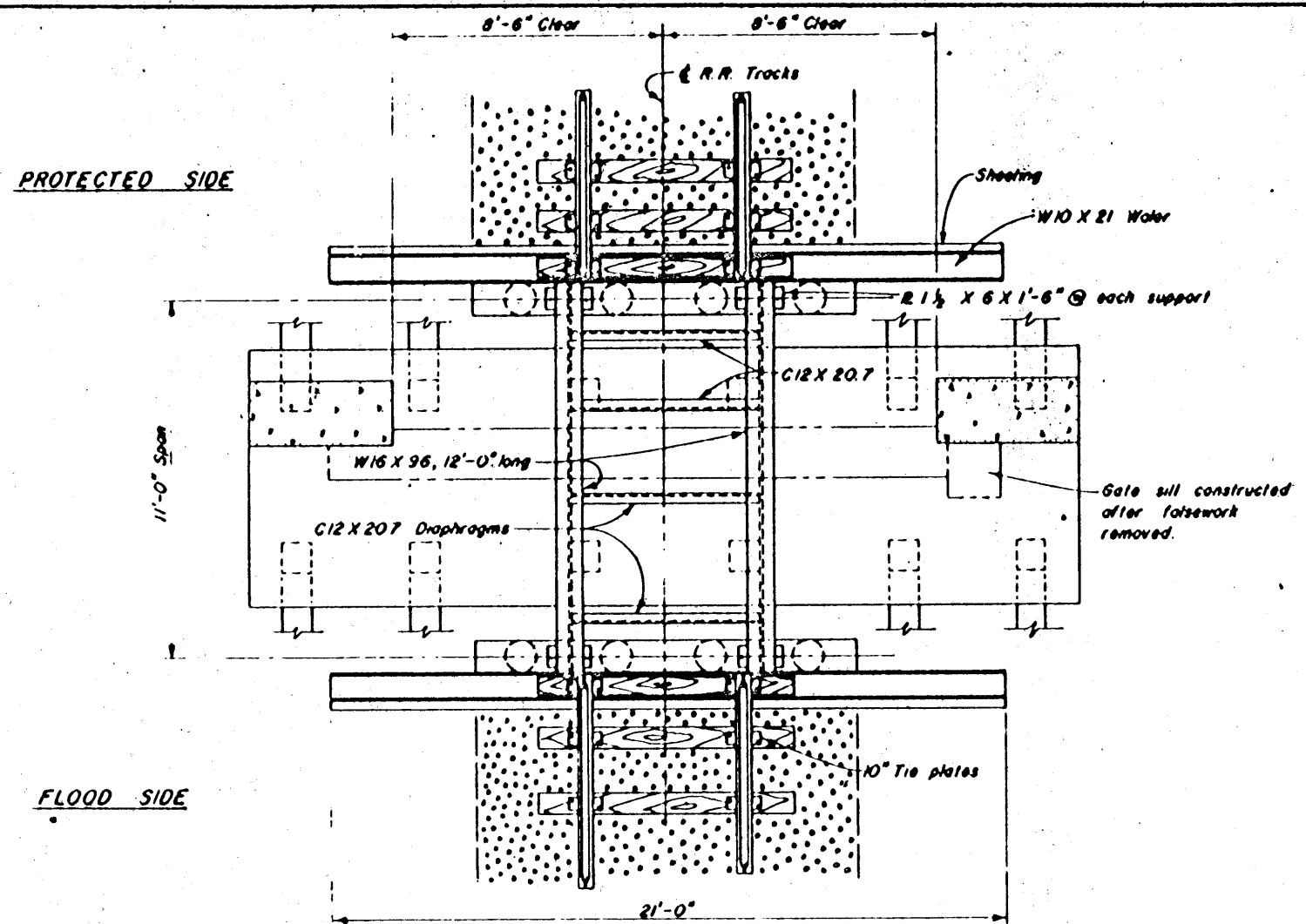
DATE: \_\_\_\_\_

PLATE 8



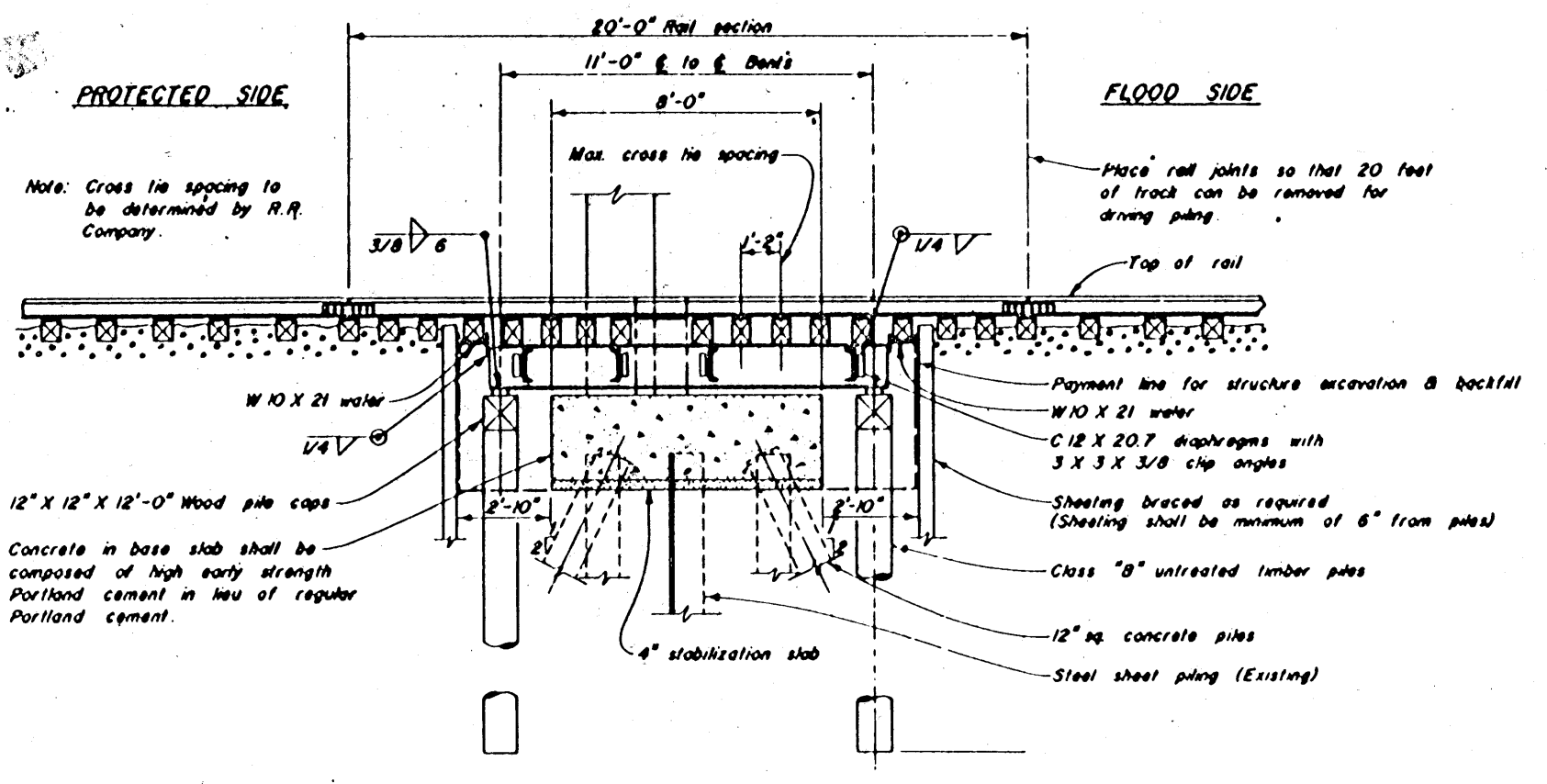


MISSISSIPPI RIVER LEVEES  
 ORLEANS LEVEE DISTRICT  
 ITEM M-94.3 TO 93.9-L  
 BARRACKS-MONTEGUT FLOODWALL  
 DESIGN MEMORANDUM NO. 74  
 REVISION OF FACILITIES  
 PROJECT PLAN  
 U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
 CORPS OF ENGINEERS  
 DATE: \_\_\_\_\_ PLATE 9



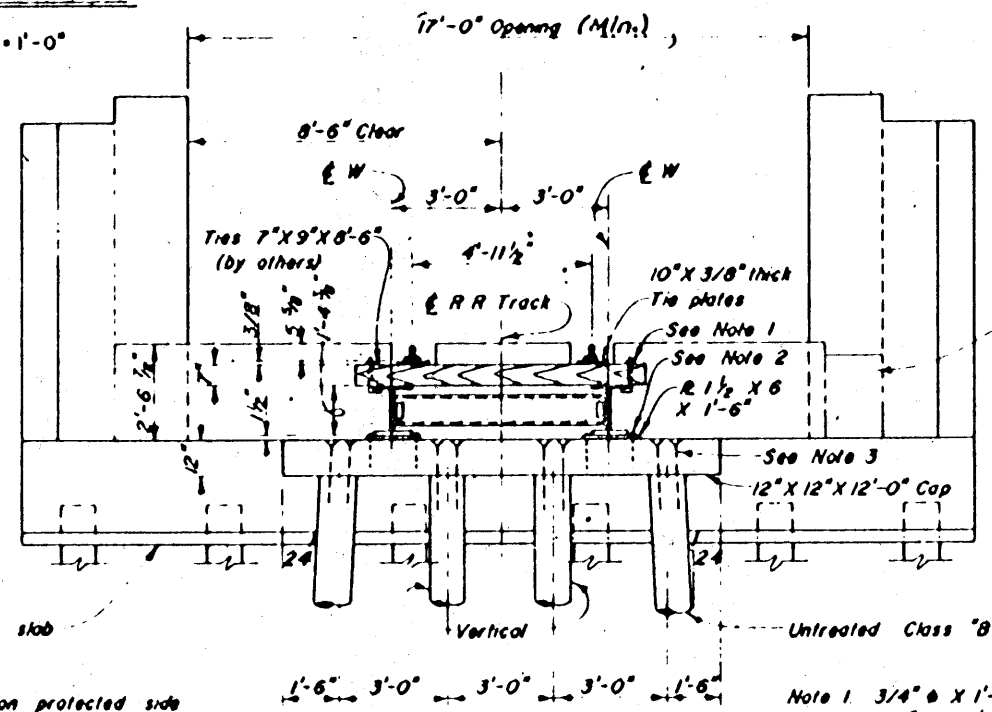
PLAN - FALSEWORK

SCALE 3/8" = 1'-0"



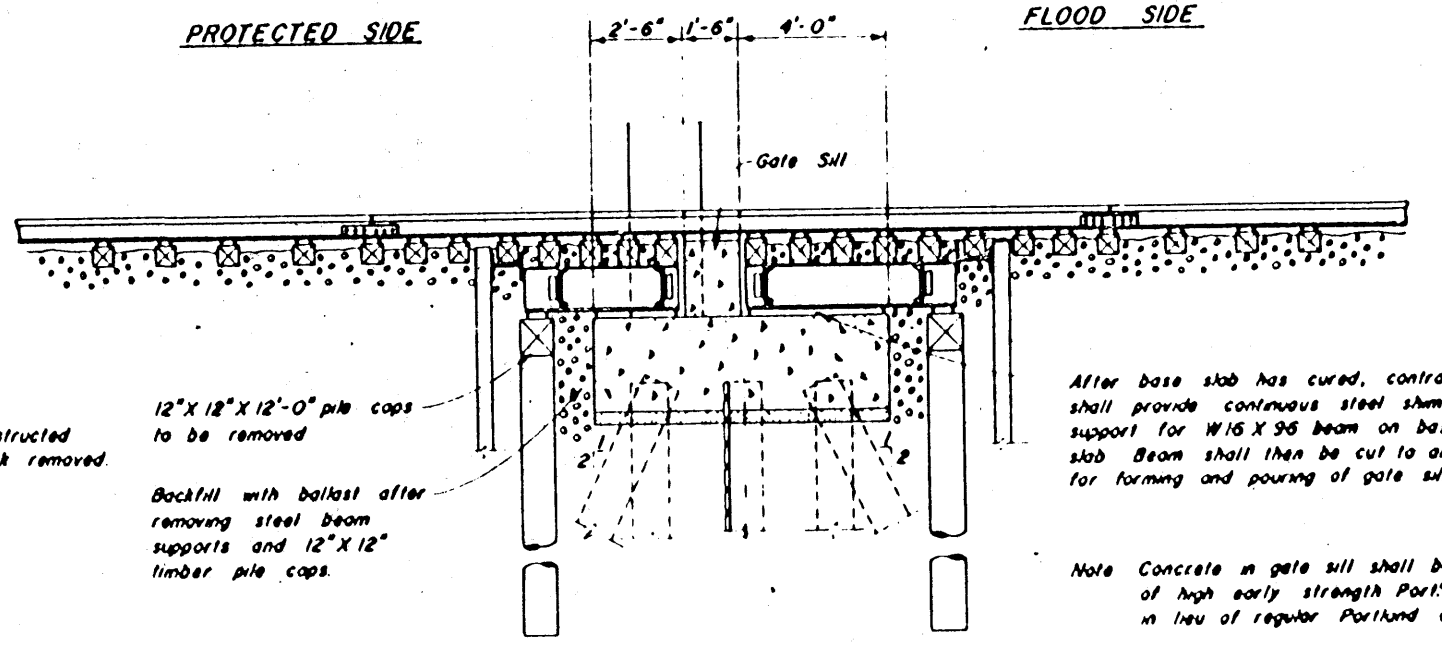
SECTION (FALSEWORK SPAN)

SCALE 3/8" = 1'-0"



FLOOD SIDE ELEVATION - FALSEWORK BENTS

SCALE 3/8" = 1'-0"



SECTION (FALSEWORK REMOVE)

SCALE 3/8" = 1'-0"

**General**  
**- DESIGN CRITERIA -**  
 The design of the temporary railroad bridge falsework was based on AREA specifications for the design of wood and steel structures. Each member was designed to support a railroad load and its own weight. The following design criteria is given:  
 1. Live load Cooper E-80 axle loading  
 2. Dead load Weight of Materials  
 a) Steel - 490 Lbs per cu ft  
 b) Timber - 60 Lbs per cu ft  
 c) Track rails & Fasteners - 200 Lbs per lin ft of track  
 d) Earth fill & Ballast - 120 Lbs per cu ft  
 3. Unit Working Stress  
 a) Timber - Stress grade conforming to AREA specifications for Structural Lumber  
 b) Steel - Basic stress conforms to AREA specifications for ASTM A-36  
 c) Piling (timber) - Tension, 26 Kips per pile  
 Compression, 38 Kips per pile  
 Corps of Engineers allowable

Note Falsework bents on protected side are similar to those on flood side.

Note 1 3/4" X 1'-2" anchor bolts, threaded 3" W/3" flat washer  
 Note 2 3/4" X 1'-0" drift bolts W/button head and wedge point  
 Note 3 7/8" X 2'-0" drift bolts W/counterbunk head and wedge point

12" X 12" X 12" pile caps to be removed  
 Backfill with ballast after removing steel beam supports and 12" X 12" timber pile caps.

After base slab has cured, contractor shall provide continuous steel shim support for W16 X 96 beam on base slab. Beam shall then be cut to allow for forming and pouring of gate sill.

Note Concrete in gate sill shall be composed of high early strength Portland cement in lieu of regular Portland cement.

MISSISSIPPI RIVER LEVEES  
 ORLEANS LEVEE DISTRICT  
 ITEM M-94.3 TO 939-L  
 BARRACKS-MONTEGUT FLOODWALL  
 DESIGN MEMORANDUM NO. 74  
 RECONSTRUCTION OF FACILITIES  
 PROJECT PLAN  
 U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
 CORPS OF ENGINEERS  
 DATE \_\_\_\_\_ FILE NO. \_\_\_\_\_

APPENDIX A  
ATTORNEY'S INVESTIGATION AND REPORT  
OF COMPENSABLE INTEREST

ATTORNEY'S INVESTIGATION  
AND  
REPORT OF COMPENSABLE INTEREST

Item M-94.3 to 93.9-L  
Barracks-Montegut Floodwall  
Mississippi River Levees  
Orleans Parish, Louisiana

This investigation and report is made in accordance with DIVR 1110-2-2 (see also DIVR 1110-2-1, 29 January 1968) and ER 1180-1-1, Section 73, Part 3, 73-202 and 73-204 on the following facilities which will be affected by the subject project:

See attached Schedule A.

The location of these facilities is indicated on Plates 1-8, entitled "Item M-94.3 to 93.9-L, Barracks-Montegut Floodwall, Design Memorandum No. 74, Mississippi River Levees."

I

COMPENSABLE INTEREST  
OF  
THE BOARD OF COMMISSIONERS  
PORT OF NEW ORLEANS  
(Board)

The Board of Commissioners for the Port of New Orleans is authorized pursuant to authority granted in LA. REV. STAT. ANN. 34:1. It is a political subdivision of the State of Louisiana and is charged with regulating commerce and traffic in the port and harbor of New Orleans. LA. REV. STAT. ANN. 34:21. Pursuant to this authority it is charged with providing light, water, police protection and other services for wharves, landings, sheds, and other structures as it deems advisable, LA. REV. STAT. ANN. 34:21. It also has the power of eminent domain, LA. REV. STAT. ANN. 34:23.

The facilities owned by the Board are located both inside and outside the existing levee right-of-way. The facilities and portions of the facilities located inside the existing right-of-way are there through permission granted by the local levee authority. Since the Board located the facilities there through permission and is being asked to relocate for floodwall construction, it has not acquired a real right to the property. Therefore, the Board has no compensable interest where the facilities lie within the existing right-of-way.

However, where the facilities within the existing right-of-way are serving a valid Governmental function, applicable law authorizes their relocation when they are serving in this capacity.

There has been no evidence furnished to date that the Board owns fee title to the facilities existing outside of the levee right-of-way. However, a political subdivision having the right of eminent domain acquires a real right to the property due to consent or acquiescence of the landlord by virtue of the provisions of LA. REV. STAT. ANN. 33:4621 and 19:41. Thus, the Board has a compensable interest in the facilities where they are located outside the existing levee right-of-way.

II  
COMPENSABLE INTEREST  
OF  
NEW ORLEANS PUBLIC SERVICE, INCORPORATED  
(NOPSIS)

NOPSIS is a Louisiana public utility domiciled in Orleans Parish. It provides electric and gas service throughout the Parish of Orleans. As a public utility, it has the right of eminent domain, LA. REV. STAT. ANN. 19:2(7).

The facilities owned by NOPSIS are located inside the existing levee right-of-way. The facilities are located there through permission granted by the local levee authority. Since NOPSIS located there through permission and is being asked to relocate for floodwall construction, it has not acquired a real right to the property. Therefore, NOPSIS has no compensable interest in their facilities.

III  
COMPENSABLE INTEREST  
OF  
THE NEW ORLEANS PUBLIC BELT RAILROAD  
(Public Belt Railroad)

The New Orleans Public Belt Railroad is owned and operated by the City of New Orleans and regulated by the Public Belt Railroad Commission, LA. REV. STAT. ANN. 33:4530. The Commission is vested with the exclusive authority to control, operate, manage and develop the Public Belt Railroad System. Moreover, the commission has the right of eminent domain. LA. REV. STAT. ANN. 19:2(3).

The facilities owned by Public Belt Railroad are located inside the existing levee right-of-way. The facilities are located there through permission granted by the local levee authority. Since the Public Belt Railroad located there through permission and is being asked to relocate for floodwall construction, it has not acquired a real right to the property. Therefore, Public Belt Railroad has no compensable interest in their facilities. However, applicable law authorizes the relocation of the facilities when owned by a public railway, where they serve a valid Governmental function.

#### IV

#### COMPENSABLE INTEREST OF THE ALABAMA GREAT SOUTHERN RAILWAY COMPANY (Great Southern)

The Alabama Great Southern Railway Company is an Alabama Corporation licensed to do business in the State of Louisiana. The railway company is classified as a public utility by virtue of LA. REV. STAT. ANN. 33:4161 and has the power of eminent domain. LA. REV. STAT. 19:2(3).

The facility owned by Great Southern is located inside the existing levee right-of-way. The facility is located there through permission granted by the local levee authority. Since Great Southern is located there through permission and is being asked to locate for floodwall construction, it has not acquired a real right to the property. Accordingly, the Alabama Great Southern Railway Company does not have a compensable interest in the facility being affected by the project.

#### V

#### COMPENSABLE INTEREST OF FRENCH MARKET CORPORATION (French Market)

French Market is a Louisiana corporation domiciled in Orleans Parish. The facilities owned by French Market are located within the existing levee right-of-way.

The facilities owned by French Market are there pursuant to a lease with the City of New Orleans. Although, under Louisiana law, the owner of a recorded deed has a real right in the property, the City of New Orleans can only lease what rights they had in the property. Since the City of New

Orleans' rights to the property are subject to the levee right-of-way, French Market is also subject to the levee right-of-way. Since French Market is being asked to relocate for floodwall construction, French Market has no compensable interest where the facilities lie within existing right-of-way.

## VI

### COMPENSABLE INTEREST OF THE SEWERAGE AND WATER BOARD OF NEW ORLEANS (Sewerage and Water Board)

The Sewerage and Water Board is a subdivision of the State of Louisiana and authorized pursuant to LA. REV. STAT. 33:4071. It is also considered a public utility pursuant to LA. REV. STAT. ANN. 19:2(4).

The facilities owned by the Sewerage and Water Board are located within the existing levee right-of-way. The facilities are there through permission granted by the local levee authority. Since the Sewerage and Water Board located the facilities there through permission and is being asked to relocate for floodwall construction, it has not acquired a real right to the property. Therefore, the Sewerage and Water Board has no compensable interest in these facilities. However, applicable law authorizes the relocation of the facilities when owned by a public utility, where they serve a valid Governmental function.

## VII

### COMPENSABLE INTEREST OF SOUTH CENTRAL BELL TELEPHONE COMPANY (South Central Bell)

South Central Bell is a Delaware corporation licensed to do business in the State of Louisiana. The company is considered to be a public utility by virtue of LA. REV. STAT. ANN. 45:781. Pursuant to this authority, South Central Bell possesses the right of eminent domain, LA. REV. STAT. ANN. 19:2(6).

The facility owned by South Central Bell is located both inside and outside the existing levee right-of-way. The portion of the facility located inside the existing levee right-of-way is there through permission granted by the local levee authority. Since South Central Bell located the facility there through permission and is being asked to relocate for floodwall

construction, it has not acquired a real right to the property. Therefore, South Central Bell has no compensable interest where the facility lies within existing right-of-way.

There has been no evidence furnished to date that South Central Bell owns fee title to the portion of the facility existing outside of the levee right-of-way. However, a public utility through the power of eminent domain possesses a real right in the facility in need of relocation, even without the use of the conventional negotiation and acquisition of the subject right-of-way through the Doctrine of Unopposed Use. See LA. REV. STAT. ANN. 19:2(6) and 19:14.

Therefore, South Central Bell does not have a compensable interest where the facility is located outside the existing levee right-of-way.

## VIII

### COMPENSABLE INTEREST OF THE CITY OF NEW ORLEANS (City of N.O.)

The City of N.O. is a municipality of the State of Louisiana. As a municipality, it has the authority to own and operate utilities in the interest of the public. See LA. REV. STAT. ANN. 33:4162. The City of N.O. also has the authority to provide, operate and maintain parking meters on their streets. LA. REV. STAT. ANN. 33:4871.

The facilities owned by the City of N.O. are located within the existing levee right-of-way. The facilities are there through permission granted by the local levee authority. Since the City of N.O. located the facilities there through permission and is being asked to relocate for floodwall construction, it has not acquired a real right to the property. Therefore, the City of N.O. has no compensable interest in these facilities. However, applicable law authorizes the relocation of the facilities when owned by a public utility, where they serve a valid Governmental function.

## IX

### AUTHORITY AND OBLIGATION

Authority for the construction, enlargement, or improvement of mainline Mississippi River Levees, including berms, is contained in the Act of 15 May 1928 (Public Law No. 391, 70th Congress), as amended. The furnishing of right-of-way for levee foundations and levees on the mainline Mississippi



River, except levee setbacks, is an obligation of local interest (See Section 3, Act of 15 May 1928). The replacement or relocation of public roads, highways, railroads, public utilities, and pipelines required for the construction of mainline Mississippi River Levees will be accomplished at Federal expense. Reimbursement of costs to local cooperating agencies in perfecting relocation of interfering facilities may be made pursuant to the Act of 23 April 1934 (Public Law No. 171, 73d Congress).

Where a public utility will be destroyed or damaged due to operation of a civil works project and relocation or alteration of the facility is required to continue service to the public, the Government may assume the cost of relocating or altering the facility (but not the cost for a new right-of-way) when, in fact, the utility owner is not presently vested with a compensable interest in the existing right-of-way. Negotiations with utility owners in accordance with the foregoing is authorized under Section 2, Flood Control Act of 1938, (52 STAT. 1215; 33 U.S.C. 701-c-1). (See Comp. Gen. Decision B-134242, 24 Dec 1957).

In those cases where the local cooperating agency is not financially able to arrange for relocation or alteration of interfering facilities, subject to reimbursement of costs, the District Engineer is authorized to enter into a contract with the facility owner, subject to the requirements of ER 1180-1-1.

Under the provisions of Section 111 of 72 STAT. 303, as amended by Section 309 of 79 STAT. 1094 (33 U.S.C. 633), the Chief of Engineers may, in civil works projects, protect, alter, reconstruct, relocate or replace any structure or facility owned by an agency of Government (State, county, city, or town or any legally created subdivision thereof) and utilized in the performance of a Governmental function.

X

#### SUMMARY

It is the obligation of the local cooperating agency subject to reimbursement by the United States to relocate all of the portions of the above facilities located outside the existing levee right-of-way or those facilities located within existing levee right-of-way and are being utilized in the performance of Governmental functions.

8 January 1985  
DATE

Randy D. Florent  
RANDY D. FLORENT  
Attorney-Advisor  
U. S. Army Engineer District  
New Orleans

SCHEDULE A  
LIST OF FACILITIES BY OWNER

A. The Board of Commissioners of the Port of New Orleans owns facilities that are affected by the proposed floodwall alignment, as listed below.

| ITEM | TYPE             | BASELINE STATION      | PLATE |
|------|------------------|-----------------------|-------|
| S-1  | Force Sewerline  | 487+86                | 4     |
| R-2  | Vehicular Access | From 492+26 to 492+73 | 4     |
| W-2  | Waterline        | 498+67                | 5     |
| W-3  | Waterline        | 502+42                | 6     |
| W-4  | Waterline        | 502+96                | 6     |
| S-5  | Force Sewerline  | 506+28                | 6     |
| W-10 | Waterline        | 521+28                | 8     |
| W-13 | Waterline        | 518+11                | 8     |
| W-14 | Waterline        | 513+50                | 7     |

B. New Orleans Public Service, Incorporated owns facilities that are affected by the proposed floodwall alignment, as listed below.

| ITEM | TYPE                                                    | BASELINE STATION | PLATE |
|------|---------------------------------------------------------|------------------|-------|
| E-1  | Overhead Electric Cables                                | 495+24           | 5     |
| E-2  | Overhead Electric Cables                                | 495+74           | 5     |
| E-3  | Overhead Electric Cables                                | 496+18           | 5     |
| E-4  | Overhead Electric Cables                                | 505+53           | 6     |
| E-6  | Overhead Electric Cables                                | 507+16           | 6     |
| E-7  | Overhead Electric Cables                                | 509+10           | 7     |
| E-9  | Overhead Electric Cables                                | 515+80           | 8     |
| E-10 | Overhead Electric Cables,<br>Power Pole and Transformer | 516+90           | 8     |
| E-11 | Overhead Electric Cables                                | 518+03           | 8     |

C. New Orleans Public Belt Railroad Commission owns tracks and facilities affected by the proposed floodwall alignment as listed below.

| ITEM | TYPE           | BASELINE STATION | PLATE |
|------|----------------|------------------|-------|
| RR-1 | Railroad Track | 494+24           | 4     |

D. Alabama Great Southern Railway Company owns tracks and facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM | TYPE           | BASELINE STATION | PLATE |
|------|----------------|------------------|-------|
| RR-2 | Railroad Track | 516+35           | 8     |

E. The French Market Corporation leases property from the City of New Orleans and owns facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM         | TYPE                                                   | BASELINE STATION      | PLATE |
|--------------|--------------------------------------------------------|-----------------------|-------|
| L-1 thru L-9 | Lamp Poles                                             | From 487+09 to 489+89 | 3 & 4 |
| R-1          | Vehicular Driveway                                     | 486+10                | 3     |
| PA-1         | Parking Area Pavement                                  | From 486+11 to 490+60 | 3 & 4 |
| EF-1         | Street Light and Electrical Feeder                     | 486+11                | 3     |
| EF-2         | Underground Electric Feeder                            | 487+01                | 3     |
| F-1          | Guard Rail and Posts                                   | From 486+11 to 490+60 | 3 & 4 |
| B-1          | Toll Booth, Electric Meter, Toll Arm and Auto Ticketer | 490+00                | 4     |
| C-1          | Underground Electric Cable and Conduit                 | 489+94                | 4     |

F. The Sewerage and Water Board of New Orleans owns facilities that are affected by the proposed floodwall as listed below.

| ITEM | TYPE            | BASELINE STATION      | PLATE |
|------|-----------------|-----------------------|-------|
| W-1  | Waterline       | 486+40                | 3     |
| S-2  | Force Sewerline | 498+90                | 5     |
| S-3  | Force Sewerline | From 500+55 to 501+70 | 5 & 6 |

| ITEM | TYPE            | BASELINE STATION      | PLATE    |
|------|-----------------|-----------------------|----------|
| S-4  | Force Sewerline | 505+25                | 6        |
| W-5  | Waterline       | 510+75                | 7        |
| S-6  | Force Sewerline | 514+82                | 7        |
| W-6  | Waterline       | 513+81                | 7        |
| W-6A | Waterline       | 513+97                | 7        |
| W-7  | Waterline       | From 504+00 to 521+72 | 6, 7 & 8 |
| W-9  | Waterline       | 518+11                | 8        |
| W-11 | Waterline       | 507+48                | 6        |
| D-1  | Drainline       | 507+34                | 6        |
| D-2  | Drainline       | 513+71                | 7        |
| D-3  | Drainline       | 514+02                | 7        |

G. South Central Bell Telephone Company owns a facility that is affected by the proposed floodwall alignment as listed below

| ITEM | TYPE                         | BASELINE STATION | PLATE |
|------|------------------------------|------------------|-------|
| T-1  | Underground Telephone Cables | 510+95           | 7     |

H. The City of New Orleans' Department of Utilities owns facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM           | TYPE                         | BASELINE STATION      | PLATE |
|----------------|------------------------------|-----------------------|-------|
| L-10 thru L-12 | Lightpoles                   | From 490+62 to 491+95 | 4     |
| C-2            | Underground Electric Conduit | 492+90                | 4     |
| P-1            | Aerial Electric Cable        | From 497+70 to 506+25 | 5 & 6 |
| P-2            | Aerial Electric Cable        | From 508+95 to 513+75 | 7     |

I. The City of New Orleans' Department of Streets owns facilities that are affected by the proposed floodwall alignment as listed below.

| ITEM                                | TYPE             | BASELINE STATION      | PLATE |
|-------------------------------------|------------------|-----------------------|-------|
| PM 2/4, 6/8, 10/12, 14/16 and 18/20 | Parking Meter(s) | From 493+30 to 494+80 | 4 & 5 |

LMVED-TD (NOD 15 Mar 85) 3d Ind  
SUBJECT: Flood Control, Mississippi River and Tributaries, Mississippi  
River Levees, Item M-94.3 to 93.9-L, Barracks Street to  
Montegut St. Floodwall, Orleans Parish, Louisiana, Relocation  
of Facilities, Design Memorandum No. 74, Supplement A

DA, Mississippi River Commission, Corps of Engineers, Vicksburg, MS 39180-0080

02 MAY '85

TO Commander, New Orleans District, ATTN: LMNED-SR <sup>881 may</sup>

Satisfactory.

FOR THE PRESIDENT OF THE COMMISSION:

*William R. Hill, P.E. for*  
ROBERT I. KAUFMAN, P.E.  
Acting Chief, Engineering Division

SR (LMNED-SR/15 Apr 85) 2d End Mr. Green/rp/2600  
SUBJECT: Flood Control, Mississippi River and Tributaries, Mississippi River  
Levees, Item M-94.3 to 93.9-L, Barracks Street to Montegut Street  
Floodwall, Orleans Parish, Louisiana, Relocation of Facilities, Design  
Memorandum No. 74, Supplement A

DA, New Orleans District, Corps of Engineers, P. O. Box 60267,  
New Orleans, LA 70160-0267 16 Apr 85

TO: President, Mississippi River Commission, ATTN: MRCEd-TD

1. We concur in reference to your comment concerning facility W-16. A supplemental Attorney's Report of Compensable Interest Findings is currently being prepared. The report will add facility W-16 to the Schedule A, and will address a change in the status of French Market Corporation's compensability from non-compensable to compensable.
2. The change in status of compensability for French Market Corporation will necessitate a Supplement to the RDM, and the RDM Supplement will include the Supplemental Attorney's Report.

FOR THE COMMANDER:



FREDERIC M. CHATRY  
Chief, Engineering Division

MRCED-TD (NOD 15 Mar 85) 1st Ind  
SUBJECT: Flood Control, Mississippi River and Tributaries, Mississippi River  
Levees, Item M-94.3 to 93.9-L, Barracks Street to Montegut St.  
Floodwall, Orleans Parish, Louisiana, Relocation of Facilities,  
Design Memorandum No. 74, Supplement A.

DA, Mississippi River Commission, Corps of Engineers, Vicksburg, MS 39180-0080

29 MAR '85

TO: Commander, New Orleans District, ATTN: LMNED-SR *JK am*

Approved subject to the resolution of the following:

It is noted that Facility W-16 is not listed on the Schedule A attached to the Attorney's Report in RDM No. 74. This discrepancy should be corrected, and a Supplemental Attorney's Report of Compensable Interest Finding should be furnished.

FOR THE PRESIDENT OF THE COMMISSION:

wd incl

*for* Robert J Kaufman, P.E.  
R. H. RESTA, P.E.  
Chief, Engineering Division

CF (7 cy) w 7 cy bas ltr & incl:  
DAEN-ECE-B



DEPARTMENT OF THE ARMY  
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 60267  
NEW ORLEANS, LOUISIANA 70160

REPLY TO  
ATTENTION OF:

LMNED-SR

SUBJECT: Flood Control, Mississippi River and Tributaries,  
Mississippi River Levees, Item M-94.3 to 93.9-L,  
Barracks Street to Montegut St. Floodwall, Orleans  
Parish, Louisiana, Relocation of Facilities, Design  
Memorandum No. 74, Supplement A.

President  
Mississippi River Commission  
ATTN: MRCED-TD

1. General. The information in this letter is presented as Supplement A to the Barracks St. to Montegut St. Floodwall Relocations Design Memorandum (RDM) No. 74.

2. Introduction. As stated on page 28, paragraph 12.c., of RDM No. 74; an appropriate supplement would be prepared addressing the several items listed in said paragraph as soon as the decisions on their disposition had been agreed to by the several concerned parties. The following paragraphs and tables provide the details and cost data covering the items in question. In addition some revisions have been made to the text and plates to clarify and maintain consistency for the disposition of previously identified items (item W-9, W-11, B-1, and F-1).

3. LIST OF EXISTING FACILITIES BY OWNERS.

The list of existing facilities by owner is amended as follows:

a. Paragraph A on page 2 of the RDM-add the following items:

| ITEM | TYPE           | BASE | LINE STATION | PLATE |
|------|----------------|------|--------------|-------|
| W-13 | 6"CI WATERLINE |      | 518+11       | 8     |
| W-14 | 6"CI WATERLINE |      | 513+50       | 7     |
| W-16 | 8"CI WATERLINE |      | 496+10       | 5     |



b. Paragraph A on page 2 of the RDM-add the following items:

| ITEM | TYPE             | BASE LINE STATION | PLATE  |
|------|------------------|-------------------|--------|
| W-6A | 8" CI WATERLINE  | 513+97            | 7      |
| W-7  | 12" CI WATERLINE | 504+00 to 516+90  | 6,7,&8 |
| D-1  | 15" DRAINLINE    | 507+34            | 6      |
| D-2  | 12" DRAINLINE    | 513+71            | 7      |
| D-3  | 12" DRAINLINE    | 514+02            | 7      |

c. Add to the list of existing facilities by owner on page 4, the following additional new paragraph J.

J. The Department of Streets of the city of New Orleans owns facilities that are affected by the proposed floodwall alinement, as listed below:

| ITEM                                 | TYPE             | BASE LINE STATION | PLATE |
|--------------------------------------|------------------|-------------------|-------|
| PM-2/4<br>6/8, 10/12<br>14/16, 18/20 | 5 PARKING METERS | 493+30 to 494+80  | 4 & 9 |

4. DESCRIPTION OF EXISTING FACILITIES AFFECTED BY THE PROJECT.

The description of existing facilities affected by the project is amended as follows:

a. Paragraph 4.c. (1) on page 8 of the RDM-add the following:

| <u>ITEM</u> | <u>DESCRIPTION/<br/>CONDITION</u> | <u>AFFECTED<br/>PORTION</u> | <u>BASELINE STATION/<br/>PLATE</u> |
|-------------|-----------------------------------|-----------------------------|------------------------------------|
| W-13        | 6" CI WATERLINE<br>CONDITION-GOOD | NOT AFFECTED                | 518+11<br>8                        |
| W-14        | 6" CI WATERLINE<br>CONDITION-GOOD | 45'                         | 513+50<br>7                        |
| W-16        | 8" CI WATERLINE<br>CONDITION-GOOD | 12'                         | 496+10<br>5                        |

b. Paragraph 4 c. (4) on page 10 of the RDM-add the following:

| <u>ITEM</u> | <u>DESCRIPTION/<br/>CONDITION</u>  | <u>AFFECTED<br/>PORTION</u> | <u>BASELINE STATION/<br/>PLATE</u> |
|-------------|------------------------------------|-----------------------------|------------------------------------|
| W-6A        | 8" CI WATERLINE<br>CONDITION-GOOD  | 6'                          | 513+97<br>7                        |
| W-7         | 12" CI WATERLINE<br>CONDITION-GOOD | 1200'                       | 504+00 to 516+90<br>6,7,&8         |

|     |                                       |     |             |
|-----|---------------------------------------|-----|-------------|
| D-1 | 15" STEEL DRAINLINE<br>CONDITION-GOOD | 12' | 507+34<br>6 |
| D-2 | 12" STEEL DRAINLINE<br>CONDITION-GOOD | 12' | 513+71<br>7 |
| D-3 | 12" STEEL DRAINLINE<br>CONDITION-GOOD | 12' | 514+02<br>7 |

c. Add to the description of existing facilities affected by the project the following new paragraph, on page 11:

Paragraph 4. c.(8) The Department of Streets of the City of New Orleans owns facilities that are affected by the proposed floodwall alignment as listed below:

| <u>ITEM</u>                          | <u>DESCRIPTION/<br/>CONDITION</u>  | <u>AFFECTED<br/>PORTION</u> | <u>BASELINE STATION/<br/>PLATE</u> |
|--------------------------------------|------------------------------------|-----------------------------|------------------------------------|
| PM-2/4<br>6/8, 10/12<br>14/16,&18/20 | 5 PARKING METERS<br>CONDITION-GOOD | ALL 5<br>Parking Meters     | 493+30 to 494+80<br>4 & 5          |

#### 5. CRITERIA FOR RELOCATED FACILITIES

The criteria for relocated facilities is amended as follows:

a. Paragraph 6.c. (1) second line on page 12-add the following items: W-6A, W-7, W-9, W-14, & W-16.

b. Add a new paragraph on page 133 as follows:

Paragraph 6.c. (c): The design criteria for the relocation of drainlines, Items D-1, D-2, & D-3 will be in compliance with the owner's standards and recommendations.

c. Add a new paragraph on p. 13 as follows: Per 6. c. the relocation of items PM 2/4 thru 18/20 will be by their owners in compliance with their standards.

#### 6. DESCRIPTION OF PROPOSED RELOCATIONS

The description of proposed relocations is amended as follows:

a. Paragraph 7.c. (1) on page 14-Revise as follows:

Paragraph 7.c.(1): The relocation of watermain items W-1, W-2, W-3, W-4, W-5, W-9, W-10 & W-16 will employ the following procedure in each case. The watermain will be uncovered and the service turned off. A 6-foot length of pipe will be cut to allow for the driving of the sheetpile. An opening will be cut

in the sheetpile and a steel sleeve of appropriate size will be welded into the opening. The 6-foot section of pipe will be passed thru the sleeve and reconnected. Waterproof packing and casing seals will be installed and service restored.

Item W-7 will be abandoned from base line stations 504+00 to 516+90. The portions of W-7 interfering with the floodwall will be removed. A replacement facility for item W-7 will be built from Mandeville St. to St. Ferdinand St. on the protected side of the floodwall. Item W-11 will be abandoned where it interferes with the floodwall construction, uncovered, cut, removed & plugged where required. The remaining portion of W-11 will be connected to item W-7's replacement facility. Items W-6 and W-14 will be extended approximately 45 feet and 30 feet, respectively, passed thru a sleeve in the floodwall's sheetpile and connected to items W-7's replacement facility.

The location procedure for items D-1, D-2, and D-3, drainlines, will be accomplished by uncovering and cutting a 12-foot length of each drainline, driving the floodwall's sheetpile installing a steel sleeve of appropriate size in the sheetpile, passing either the cut pipe length or a new length of pipe if required thru the sleeve, re-connecting the drainline back into service and installing the waterproof packing and casing seals.

Items W-6A and W-8 will be abandoned, uncovered, cut, removed & plugged as required where they interfere with the floodwall construction.

b. Add a new paragraph on page 15 as follows:

c. Paragraph 7 (c) (2)-Revise the 7th sentence as follows: Gate valves (48"Ø) will be installed on Items S-2, S-4, and S-6.

Paragraph 7 (c) (2)-Delete the 8th sentence.

Paragraph 7. c.(9): The location work for item B-1 will require that a portion of the existing sidewalk be removed to provide additional width for the driveway in order to facilitate access for the contractor's equipment. In addition the existing toll arm and automatic ticket dispenser will be removed. The required relocation work will be accomplished by the facilities owner's.

## 7. PROCEDURE FOR ACCOMPLISHING RELOCATIONS

The procedure for accomplishing relocations is amended as follows:

a. par. 8. (a) (1)- Delete the second sentence.

b. Revise on page 17, Paragraph 8.c. (2) to read as follows:

Paragraph 8.c. (2): The following listed utilities will be relocated by their owner at Federal Government expense, concurrently with the floodwall construction and in coordination with the floodwall's construction schedule.

| <u>ITEM</u>                         | <u>DESCRIPTION</u>        | <u>PLATE</u> |
|-------------------------------------|---------------------------|--------------|
| L-10 thru L-12                      | (3) LIGHT POLES           | 4            |
| P-1 & P-2                           | OVERHEAD ELECTRIC FEEDERS | 6 & 7        |
| W-1,W-5,W-6A,&W-9                   | WATERLINES                | 3 & 8        |
| PM-2/4,6/8,10/12,<br>14/16, & 18/20 | 5 PARKING METERS          | 4 & 5        |

6. Paragraph 8.c. (4)-Revise the list of utilities to read as follows:

| <u>ITEM</u>                                  | <u>DESCRIPTION</u>                     | <u>PLATE</u>  |
|----------------------------------------------|----------------------------------------|---------------|
| W-2,W-3,W-4,W-6,W-7<br>W-10,W-11,W-14,& W-16 | WATERLINES                             | 3,4,5,6,7 & 8 |
| S-1,S-2,S-3,S-4,S-5<br>& S-6                 | FORCE SEWERS                           | 4,5,6, & 7    |
| C-2                                          | ABANDONED UNDERGROUND ELECTRIC CONDUCT | 4             |
| D-1,D-2, & D-3                               | DRAINLINES                             | 6 & 7         |
| W-6A & W-8                                   | ABANDONED PIPELINES                    | 6 & 7         |

c. Paragraph 8.c.(5) Add the following:

| <u>ITEM</u> | <u>DESCRIPTION</u> | <u>PLATE</u> |
|-------------|--------------------|--------------|
| F-1         | GUARD RAIL         | 3 & 4        |

#### 8. COST ESTIMATE TABLES

Delete Table A and Table B entirely and substitute the following Table A (Revised) and Table B (Revised). Add new cost estimate Table F. Former Table F has been re-labeled as Table G and revised to reflect the changes in the cost estimate.

(REVISED FOR SUPPLEMENT A)

TABLE A - ESTIMATE OF COST  
SEWERAGE & WATER BOARD OF NEW ORLEANS  
(JAN 85 PRICE LEVELS)

| Cost<br>Acct.<br>No. | Description                                                           | Unit | Qty. | Unit<br>Price(\$) | Cost   |
|----------------------|-----------------------------------------------------------------------|------|------|-------------------|--------|
| 2                    | Relocations                                                           |      |      |                   |        |
| 07                   | Utilities and Structure                                               |      |      |                   |        |
|                      | <u>Item W-1,W-5,&amp;W-9</u>                                          |      |      |                   |        |
|                      | a. Cut & temporarily remove a 6-foot section of C.I. water pipe.      |      |      |                   |        |
|                      | b. Install a 1/2 inch thick steel sleeve in the sheetpile.            |      |      |                   |        |
|                      | c. Pass the cut pipe section thru sleeve & reconnect/restore service. | Each | 3    | 3,500             | 10,500 |
|                      | <u>Item D-1,D-2,&amp;D-3</u>                                          |      |      |                   |        |
|                      | a. Cut & temporarily remove a 6-foot section of C.I. water pipe.      |      |      |                   |        |
|                      | b. Install a 1/2 inch thick steel sleeve in the sheetpile.            |      |      |                   |        |
|                      | c. Pass the cut pipe section thru sleeve & reconnect/restore service. | Each | 3    | 4,000             | 12,000 |

(REVISED FOR SUPPLEMENT A)  
 TABLE A - ESTIMATE OF COST  
 SEWERAGE & WATER BOARD OF NEW ORLEANS  
 (JAN 1985 PRICE LEVELS)

| Description                                                                           | Unit          | Qty | Price  | Cost    |
|---------------------------------------------------------------------------------------|---------------|-----|--------|---------|
| <b>Relocations</b>                                                                    |               |     |        |         |
| <b>Utilities &amp; Structure (cont'd)</b>                                             |               |     |        |         |
| <b><u>Item S-2,3,4 &amp; 6.</u></b>                                                   |               |     |        |         |
| a. Excavate, brace & dewater a 20'x20' deep opening to expose facility.               |               |     |        |         |
| b. Cut & remove a 12' length of 7-foot diameter steel casing.                         |               |     |        |         |
| c. Cut a 12' length of 48-inch diameter C.I. pipe & temporarily set aside.            |               |     |        |         |
| d. Cut opening (60") in sheetpile & install a 60-inch diameter by 2' long sleeve.     |               |     |        |         |
| e. Re-connect a new section of 48-inch diameter steel pipe thru the sleeve.           |               |     |        |         |
| f. Install water packing & boot seals in both ends of the sleeve.                     |               |     |        |         |
| Total (a. thru g.)                                                                    | Lump Sum Each | 4   | 25,000 | 100,000 |
| g. Install new 48" diameter gate valves on S-2,S-4,&S-6 and provide 3 valve manholes. | Lump Sum Each | 3   | 75,000 | 225,000 |

(REVISED FOR SUPPLEMENT A)  
 TABLE A - ESTIMATE OF COST  
 SEWERAGE & WATER BOARD OF NEW ORLEANS  
 (JAN 1985 PRICE LEVELS)

| DESCRIPTION           | UNIT     | QTTY | UNIT PRICE | COST   |
|-----------------------|----------|------|------------|--------|
| Relocations           |          |      |            |        |
| Utilities & Structure |          |      |            |        |
| <u>Item W-7</u>       |          |      |            |        |
| a. Build a new        |          |      |            |        |
| 12" C.I. water-       |          |      |            |        |
| line replacement      |          |      |            |        |
| facility to be        |          |      |            |        |
| located on the        |          |      |            |        |
| protected side        |          |      |            |        |
| of the floodwall      |          |      |            |        |
| Normal Lay.           |          | 1200 | 30.00      | 36,000 |
| b. Uncover & remove   |          |      |            |        |
| abandoned 12" water   |          |      |            |        |
| line where it inter-  |          |      |            |        |
| feres with floodwall  |          |      |            |        |
| 20' deep              |          | 150  | 15.00      | 2,300  |
| <u>Item W-6</u>       |          |      |            |        |
| a. Extend 8" CI       |          |      |            |        |
| waterline             |          | 45   | 10.00      | 450    |
| b. Pass thru          |          |      |            |        |
| steel sleeves in      |          |      |            |        |
| sheetpile and         |          |      |            |        |
| connect to item       |          |      |            |        |
| W-7's replace-        |          |      |            |        |
| ment facility         | Lump Sum |      |            | 5,900  |
| <u>Item W-11</u>      |          |      |            |        |
| a. Uncover &          |          |      |            |        |
| remove 16" CI         |          |      |            |        |
| waterline where       |          |      |            |        |
| it interferes         |          |      |            |        |
| with floodwall        |          | 12   | Lump Sum   | 200    |
| b. Reconnect          |          |      |            |        |
| existing 16"          |          |      |            |        |
| CI waterline          |          |      |            |        |
| to item W-7"s         |          |      |            |        |
| 12" CI replace-       |          |      |            |        |
| ment waterline        | Lump Sum |      | 500        | 500    |
| <u>Item W-6A</u>      |          |      |            |        |
| A. Uncover & Remove   |          |      |            |        |
| 8" ,C.I. waterline    |          |      |            |        |
| where it interferes   |          |      |            |        |
| with floodwall        |          | 12   | Lump Sum   | 200    |

|                      |         |
|----------------------|---------|
| Relocations Cost     | 393,000 |
| Contingencies (25%±) | 99,000  |
| Subtotal             | 492,000 |
| E&S (6%±)            | 30,000  |
| S&A (6%±)            | 30,000  |
| Total                | 552,000 |

Depreciation - none, based on ECI 73.209.9, 1 July 80

Salvage - none, material removed and not re-used has zero salvage value.

Removal - no reimbursement, removal will be effected by Government's contractor.

Betterment - none.



(REVISED FOR SUPPLEMENT A)

TABLE B - ESTIMATE OF COST  
BOARD OF COMMISSIONERS  
OF THE PORT OF NEW ORLEANS  
(JAN 1985 PRICE LEVELS)

| Cost<br>Acct<br>No. | DESCRIPTION                                                                                                  | UNIT     | QTTY | UNIT<br>PRICE(s) | COST  |
|---------------------|--------------------------------------------------------------------------------------------------------------|----------|------|------------------|-------|
| 02                  | Relocations                                                                                                  |          |      |                  |       |
| 0.1                 | Roads                                                                                                        |          |      |                  |       |
|                     | <u>Item R-2</u>                                                                                              |          |      |                  |       |
|                     | Restoration of Roadway<br>Pavement-1 1/2" Thick<br>Asphalt                                                   | Sq Yd    | 80   | 48               | 3,840 |
|                     | 8" thick concrete slab<br>over 12" thick Shell<br>Base                                                       |          |      |                  |       |
|                     | Subtotal for Roads                                                                                           |          |      |                  | 3,840 |
| 0.7                 | Utilities & Structure                                                                                        |          |      |                  |       |
|                     | <u>Item S-1</u>                                                                                              |          |      |                  |       |
|                     | a. Cut & temporarily<br>remove a 6-foot section<br>of 6-inch steel casing<br>& 2-inch F.R.P.* force<br>main. |          |      |                  |       |
|                     | b. Install a 10-inch<br>by 24" long x 1/2"<br>thick steel sleeve<br>in sheetpile.                            |          |      |                  |       |
|                     | c. Pass the cut items<br>thru the sleeve & re-<br>connect/restore ser-<br>vice.                              |          |      |                  |       |
|                     | d. Install water<br>packing & boots<br>seals in both<br>ends of the sleeve.                                  |          |      |                  |       |
|                     |                                                                                                              | Lump Sum |      | 3,000            | 3,000 |

| Item S                                                                               | UNIT     | QTTY | UNIT PRICE(s) | COST  |
|--------------------------------------------------------------------------------------|----------|------|---------------|-------|
| a. Cut & temporarily remove a 6' section of 6" steel casing & 3" F.R.P.* force main. |          |      |               |       |
| b. Install a 10" by 24" long x 1/2" thick steel sleeve in sheetpile.                 |          |      |               |       |
| c. Pass the cut items thru the sleeve & re-connect/restore service.                  |          |      |               |       |
| d. Install water packing & boot seals in both ends of the sleeve.                    |          |      |               |       |
|                                                                                      | Lump Sum |      |               | 3,200 |

\* F.R.P. = FIBERGLASS REINFORCEMENT PLASTIC

(REVISED FOR SUPPLEMENT A)

TABLE B - ESTIMATE OF COST  
BOARD OF COMMISSIONERS  
OF THE PORT OF NEW ORLEANS  
(JAN 1985 PRICE LEVELS)

| Cost<br>Acct<br>No. | DESCRIPTION                                                                                                   | UNIT     | QTTY | UNIT<br>PRICE(s) | COST          |
|---------------------|---------------------------------------------------------------------------------------------------------------|----------|------|------------------|---------------|
| 02                  | Relocations                                                                                                   |          |      |                  |               |
| 07                  | Utilities & Structure (con't)                                                                                 |          |      |                  |               |
|                     | <u>Item W-2,W-3,W-4</u><br><u>W10 and W-6</u>                                                                 |          |      |                  |               |
|                     | a. cut & temporarily remove a 6' CI water pipe.                                                               |          |      |                  |               |
|                     | b. Install a 14"x24" long x 1/2" thick steel sleeve in sheetpile.                                             |          |      |                  |               |
|                     | c. Pass the cut pipe section thru sleeve place waterproof packing & boots seals, reconnect & restore service. | Each     | 5    | 3,500            | 17,500        |
|                     | <u>Item W-14</u>                                                                                              |          |      |                  |               |
|                     | a. Extend 6" CI waterline.                                                                                    | LF       | 30   | 20               | 600           |
|                     | b. Pass thru steel sleeve in sheetpile and connect to item w-7's 12" CI replacement waterline.                |          |      |                  |               |
|                     |                                                                                                               | LUMP SUM |      |                  | 2,500         |
|                     | Subtotal for utilities & Structures                                                                           |          |      |                  | <u>26,800</u> |
|                     | Relocations Cost                                                                                              |          |      |                  | 30,600        |
|                     | Contingencies (25%+)                                                                                          |          |      |                  | 7,600         |
|                     | Subtotal                                                                                                      |          |      |                  | <u>38,200</u> |
|                     | E&D                                                                                                           |          |      |                  | 2,300         |
|                     | S&A                                                                                                           |          |      |                  | 2,300         |
|                     | Total                                                                                                         |          |      |                  | <u>42,800</u> |

Depreciation - none, based on ECI 73.209.3, 1 Jul 80.  
Salvage - none, material removed and not re-used has zero salvage value.  
Removal - no reimbursement, removal will be effected by Government's Contractor.  
Betyterment - none.

(REVISED FOR SUPPLEMENT A)

TABLE F - ESTIMATE OF COST  
DEPARTMENT OF STREETS  
CITY OF NEW ORLEANS  
(JAN 1985 PRICE LEVELS)

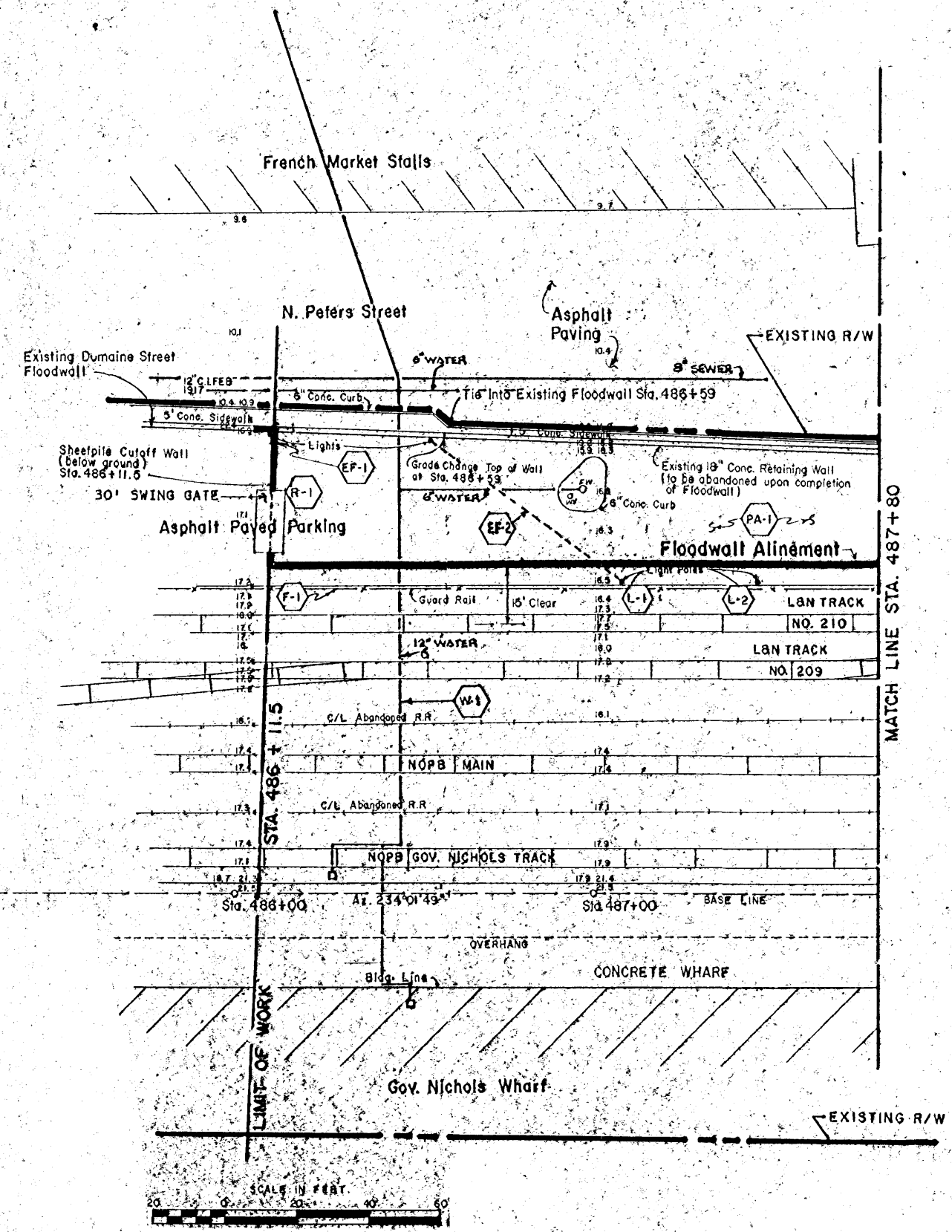
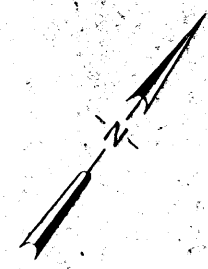
| Cost Acct No. | DESCRIPTION                                             | UNIT      | QTTY     | UNIT PRICE(s) | COST          |
|---------------|---------------------------------------------------------|-----------|----------|---------------|---------------|
| 02            | Relocations                                             |           |          |               |               |
| 04            | Roads                                                   |           |          |               |               |
|               | Items PM-2/4, 6/8, 10/12, 14/16, & 18/20                |           |          |               |               |
|               | a. Remove 10 parking meter heds & 5 parking meter pipe. | Man hours | 2        | 6             | 12.00         |
|               | b. Reinstall the above items.                           | Man hours | 6        | 6             | 36.00         |
|               | c. Transportation & miscellaneous equip.                |           | LUMP SUM |               | 50.00         |
|               | Relocations cost                                        |           |          |               | 98.00         |
|               | Contingencies                                           |           |          |               | 102.00        |
|               | Subtotal                                                |           |          |               | <u>200.00</u> |
|               | E&D (6%+)                                               |           |          |               | 50.00         |
|               | S&A (6%+)                                               |           |          |               | 50.00         |
|               | Total                                                   |           |          |               | <u>300.00</u> |

Depreciation - none, based on ECI 73.209.3, 1 Jul 80.  
Salvage - none, material removed and not re-used has zero salvage value.  
Betterment - none.

(REVISED FOR SUPPLEMENT A)  
 TABLE G  
 MISSISSIPPI RIVER LEVEE CONSTRUCTION  
 COST COMPARISON SUMMARY

| Cost<br>Acct<br>No. | Current PB-3<br>(1 Oct 84) | Current working<br>Estimate as revised<br>by Supplement A | Difference<br>from Proposed<br>PB-3 |
|---------------------|----------------------------|-----------------------------------------------------------|-------------------------------------|
| 02 Relocations      |                            |                                                           |                                     |
| 0.1 Roads           | 6                          | 5.2                                                       | -0.8                                |
| 0.4 Railroad        | 40                         | 47                                                        | +7                                  |
| 0.7 Utilities       | 266                        | 537                                                       | +271                                |
| Subtotal            | 312                        | 589                                                       | +277                                |
| 30 E&D              | 35                         | 35                                                        | 0                                   |
| 31 S&A              | 35                         | 35                                                        | 0                                   |
| Total <u>1/</u>     | 382.0                      | 659                                                       | +277                                |

1/ Incremental cost.



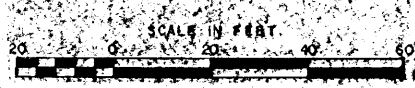
| EXISTING FACILITIES |                             |                |                       |             |
|---------------------|-----------------------------|----------------|-----------------------|-------------|
| ITEM                | DESCRIPTION                 | OWNER          | STATION               | RELOCATE BY |
| W-1                 | 12" C.I. WATERLINE          | S&WB           | 486+40                | OWNER       |
| L-1 & L-2           | LIGHT POLES (2)             | FRENCHMKT. CO. | From 487+09 To 487+46 | OWNER       |
| R-1                 | DRIVEWAY                    | FM CO.         | 486+10                | OWNER       |
| F-1                 | GUARD RAIL                  | FM CO.         | From 486+11 To 490+00 | OWNER       |
| PA-1                | PARKING AREA                | FM CO.         | From 486+11 To 490+00 | OWNER       |
| EF-1                | ELECTRIC FEEDER & LUMINAIRE | FM CO.         | 486+11                | OWNER       |
| EF-2                | UNDERGROUND ELECTRIC FEEDER | FM CO.         | 487+01                | OWNER       |

TO OLD - E  
LMS-94  
STA. 482+79.3

NEW LMS B/L

Sta. 486+00 At 234'01"49" Sta. 487+00

MATCH LINE STA. 487+80



I. REVISED PER SUPPLEMENT A

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

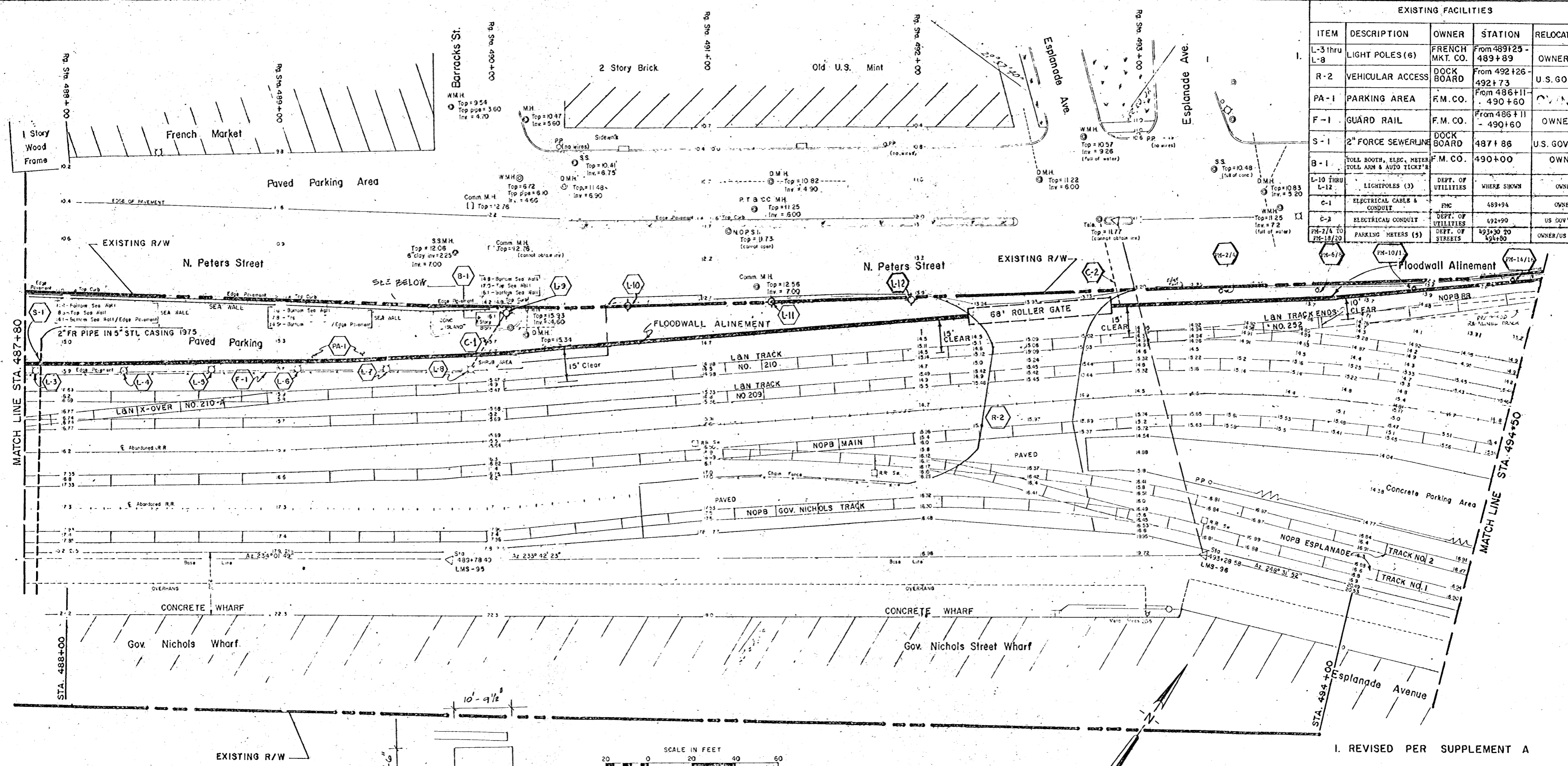
**BARRACKS-MONTEGUT FLOODWALL**

DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

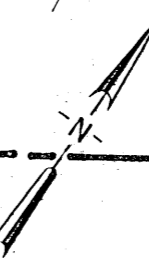
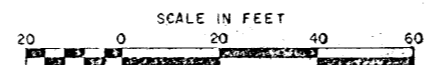
U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_

FILE NO. \_\_\_\_\_ **PLATE 3**



| EXISTING FACILITIES |                                                 |                    |                      |                 |
|---------------------|-------------------------------------------------|--------------------|----------------------|-----------------|
| ITEM                | DESCRIPTION                                     | OWNER              | STATION              | RELOCATED BY    |
| L-3 thru L-8        | LIGHT POLES (6)                                 | FRENCH MKT. CO.    | From 489125 - 489+89 | OWNER           |
| R-2                 | VEHICULAR ACCESS DOCK BOARD                     |                    | From 492+26 - 492+73 | U.S. GOV'T.     |
| PA-1                | PARKING AREA                                    | F.M. CO.           | From 486+11 - 490+60 | OWNER           |
| F-1                 | GUARD RAIL                                      | F.M. CO.           | From 486+11 - 490+60 | OWNER           |
| S-1                 | 2" FORCE SEWERLINE DOCK BOARD                   |                    | 487+86               | U.S. GOV'T.     |
| B-1                 | TOLL BOOTH, ELEC. METER, TOLL ARM & AUTO TICKET | F.M. CO.           | 490+00               | OWNER           |
| L-10 thru L-12      | LIGHTPOLES (3)                                  | DEPT. OF UTILITIES | WHERE SHOWN          | OWNER           |
| C-1                 | ELECTRICAL CABLE & CONDUIT                      | FMC                | 489+94               | OWNER           |
| C-2                 | ELECTRICAL CONDUIT                              | DEPT. OF UTILITIES | 492+90               | U.S. GOV'T.     |
| PA-2/4              | PARKING METERS (5)                              | DEPT. OF STREETS   | 493+30 TO 494+80     | OWNER/US GOV'T. |



TOLL BOOTH  
1/4" = 1'-0"

I. REVISED PER SUPPLEMENT A

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

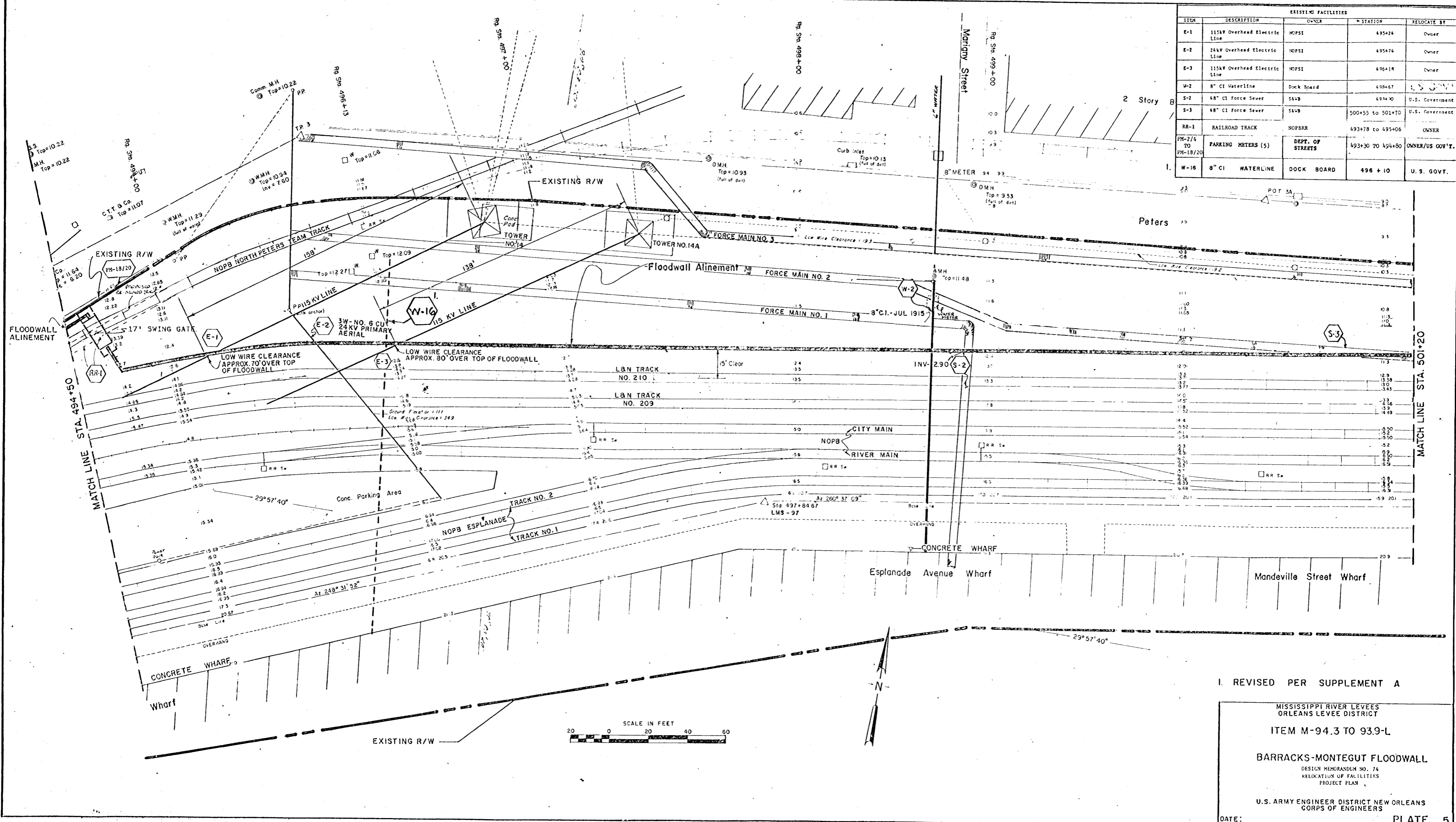
U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS.

DATE: \_\_\_\_\_

PLATE 4



| ITEM               | DESCRIPTION                  | EXISTING FACILITIES |                  | RELOCATE BY     |
|--------------------|------------------------------|---------------------|------------------|-----------------|
|                    |                              | OWNER               | STATION          |                 |
| E-1                | 115KV Overhead Electric Line | NOPSI               | 495+24           | Owner           |
| E-2                | 24KV Overhead Electric Line  | NOPSI               | 495+74           | Owner           |
| E-3                | 115KV Overhead Electric Line | NOPSI               | 496+14           | Owner           |
| W-2                | 8" CI Waterline              | Dock Board          | 498+67           | Owner           |
| S-2                | 48" CI Force Sewer           | S&B                 | 494+30           | U.S. Government |
| S-3                | 48" CI Force Sewer           | S&B                 | 500+55 to 501+70 | U.S. Government |
| RR-1               | RAILROAD TRACK               | NOPBRR              | 493+78 to 495+06 | OWNER           |
| PM-2/4 TO PM-18/20 | PARKING METERS (5)           | DEPT. OF STREETS    | 493+30 TO 494+80 | OWNER/US GOV'T. |
| W-16               | 8" CI WATERLINE              | DOCK BOARD          | 496 + 10         | U. S. GOVT.     |



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MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

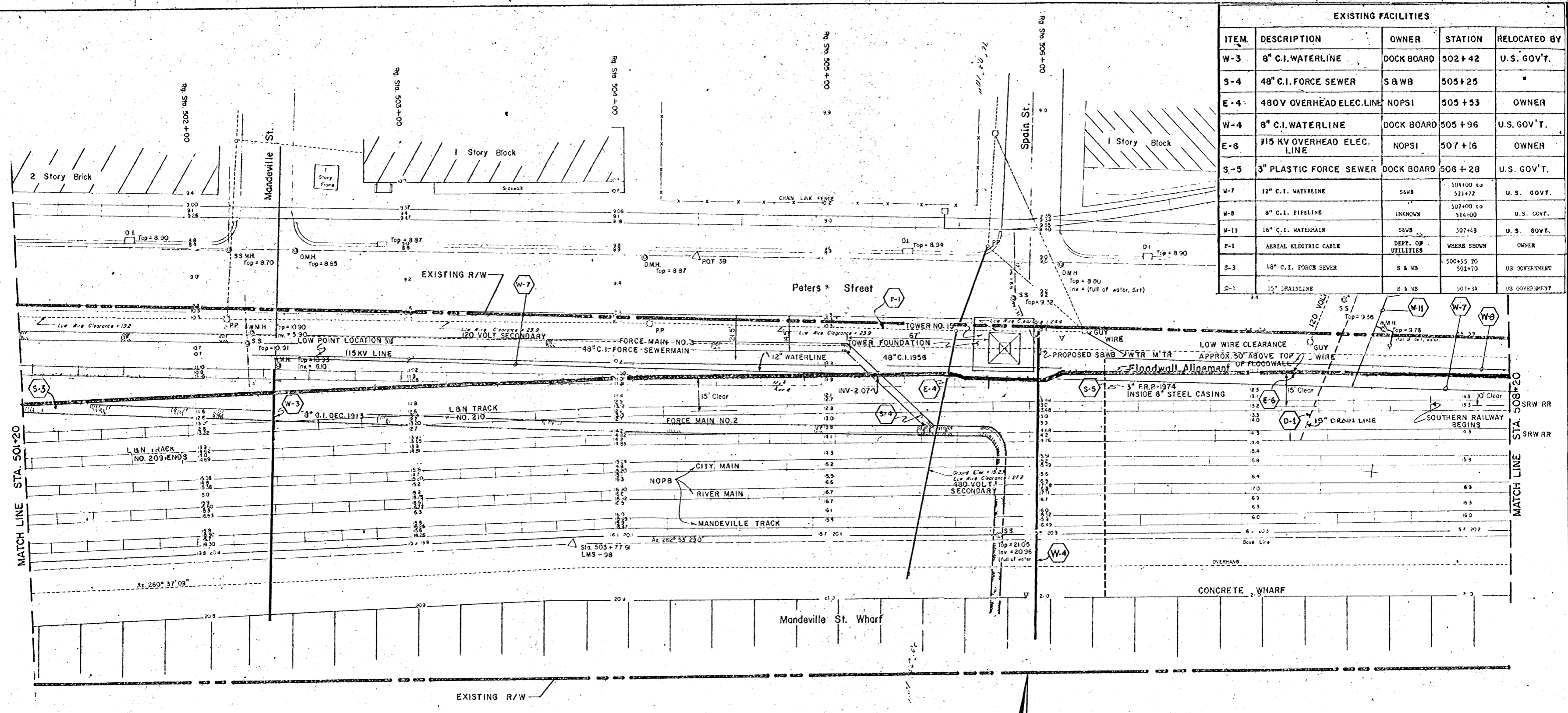
ITEM M-94.3 TO 93.9-L

BARRACKS-MONTEGUT FLOODWALL  
DESIGN MEMORANDUM NO. 74  
RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
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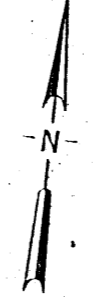
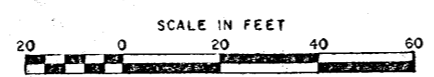
DATE: \_\_\_\_\_

| EXISTING FACILITIES |                            |                    |                  |               |
|---------------------|----------------------------|--------------------|------------------|---------------|
| ITEM                | DESCRIPTION                | OWNER              | STATION          | RELOCATED BY  |
| W-3                 | 8" C.I. WATERLINE          | DOCK BOARD         | 502+42           | U.S. GOV'T.   |
| S-4                 | 48" C.I. FORCE SEWER       | S & WB             | 505+25           | "             |
| E-4                 | 480V OVERHEAD ELEC. LINE   | NOPSI              | 505+53           | OWNER         |
| W-4                 | 8" C.I. WATERLINE          | DOCK BOARD         | 505+96           | U.S. GOV'T.   |
| E-6                 | 115 KV OVERHEAD ELEC. LINE | NOPSI              | 507+16           | OWNER         |
| S-5                 | 3" PLASTIC FORCE SEWER     | DOCK BOARD         | 506+28           | U.S. GOV'T.   |
| W-7                 | 12" C.I. WATERLINE         | S&WB               | 504+00 to 521+72 | U.S. GOV'T.   |
| W-8                 | 8" C.I. PIPELINE           | UNKNOWN            | 507+00 to 514+00 | U.S. GOV'T.   |
| W-11                | 16" C.I. WATERMAIN         | S&WB               | 507+48           | U.S. GOV'T.   |
| P-1                 | AERIAL ELECTRIC CABLE      | DEPT. OF UTILITIES | WHERE SHOWN      | OWNER         |
| S-3                 | 48" C.I. FORCE SEWER       | S & WB             | 500+55 TO 501+70 | US GOVERNMENT |
| D-1                 | 15" DRAINLINE              | S & WB             | 507+34           | US GOVERNMENT |

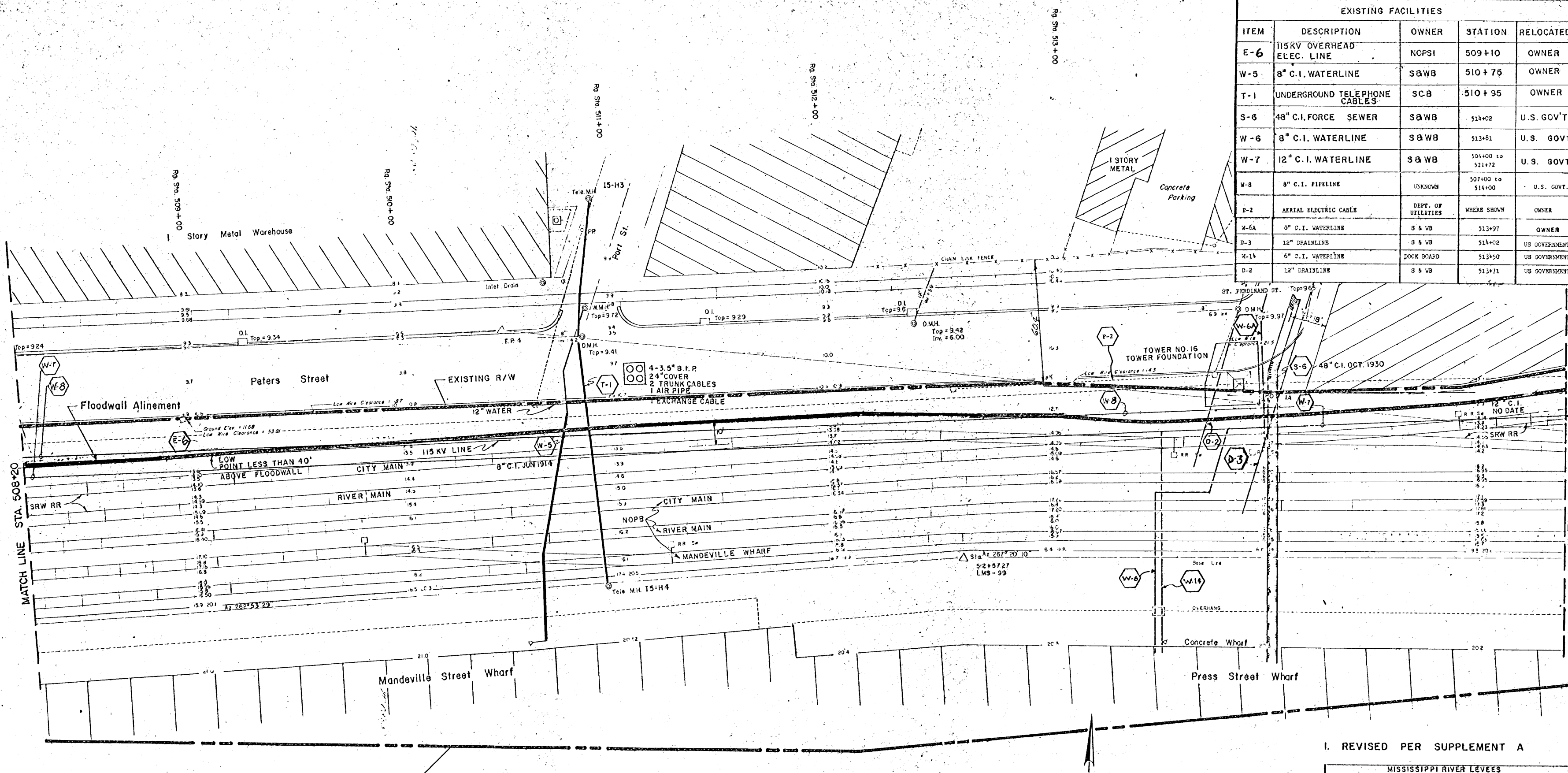


I. REVISED PER SUPPLEMENT A

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT  
ITEM M-94.3 TO 93.9-L  
BARRACKS-MONTEGUT FLOODWALL  
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RELOCATION OF FACILITIES  
PROJECT PLAN  
U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS



| EXISTING FACILITIES |                              |                    |                  |               |
|---------------------|------------------------------|--------------------|------------------|---------------|
| ITEM                | DESCRIPTION                  | OWNER              | STATION          | RELOCATED BY  |
| E-6                 | 115KV OVERHEAD ELEC. LINE    | NOPSI              | 509+10           | OWNER         |
| W-5                 | 8" C.I. WATERLINE            | S&WB               | 510+75           | OWNER         |
| T-1                 | UNDERGROUND TELEPHONE CABLES | SCB                | 510+95           | OWNER         |
| S-6                 | 48" C.I. FORCE SEWER         | S&WB               | 514+02           | U.S. GOV'T    |
| W-6                 | 8" C.I. WATERLINE            | S&WB               | 513+81           | U.S. GOV'T.   |
| W-7                 | 12" C.I. WATERLINE           | S & WB             | 504+00 to 521+72 | U.S. GOV'T.   |
| W-8                 | 8" C.I. PIPELINE             | UNKNOWN            | 507+00 to 514+00 | U.S. GOV'T.   |
| P-2                 | AERIAL ELECTRIC CABLE        | DEPT. OF UTILITIES | WHERE SHOWN      | OWNER         |
| W-6A                | 8" C.I. WATERLINE            | S & WB             | 513+97           | OWNER         |
| D-3                 | 12" DRAINLINE                | S & WB             | 514+02           | US GOVERNMENT |
| W-14                | 6" C.I. WATERLINE            | DOCK BOARD         | 513+50           | US GOVERNMENT |
| D-2                 | 12" DRAINLINE                | S & WB             | 513+71           | US GOVERNMENT |



I. REVISED PER SUPPLEMENT A

MISSISSIPPI RIVER LEVEES  
ORLEANS LEVEE DISTRICT

ITEM M-94.3 TO 93.9-L

**BARRACKS-MONTEGUT FLOODWALL**

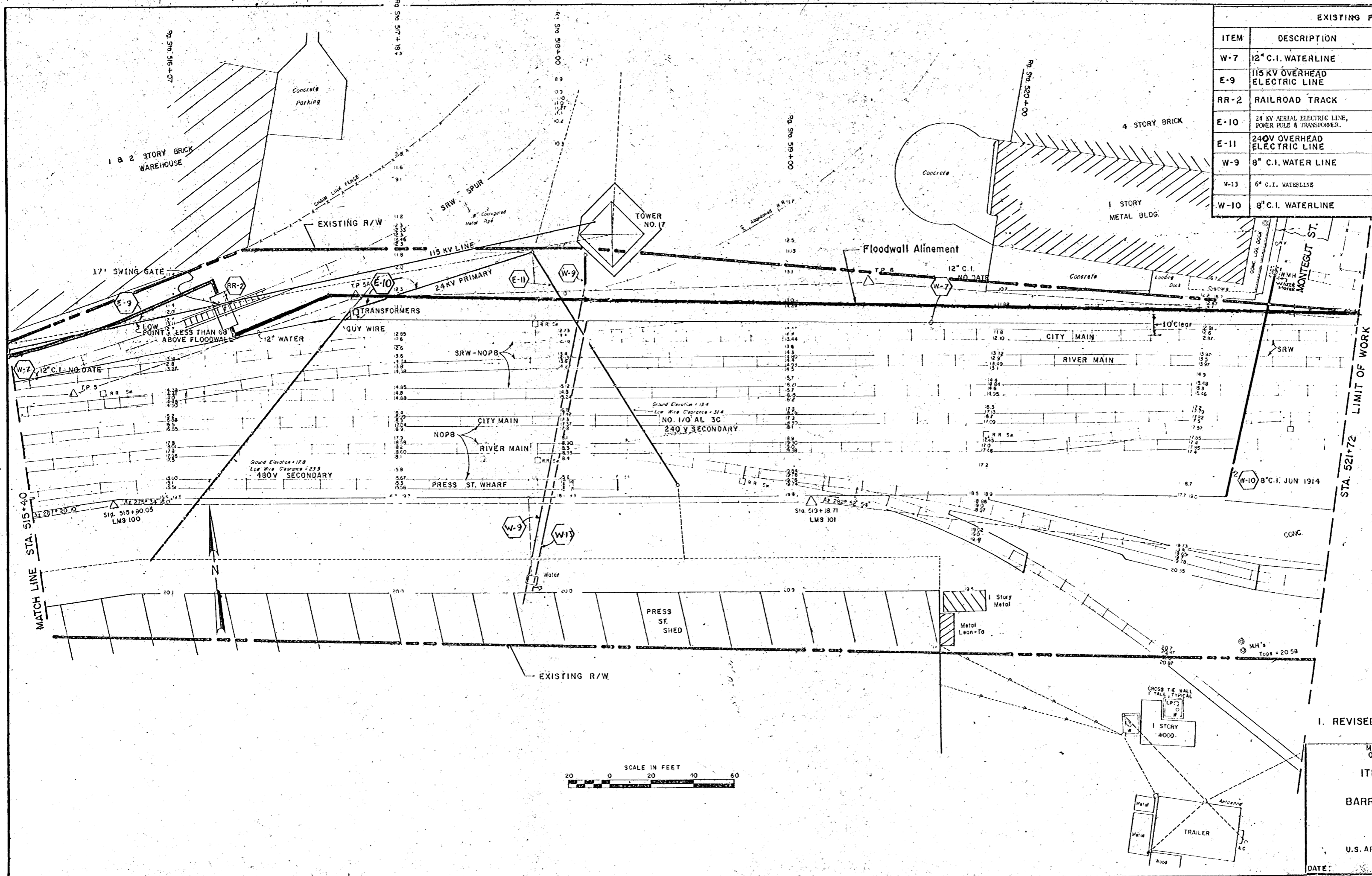
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RELOCATION OF FACILITIES  
PROJECT PLAN

U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
CORPS OF ENGINEERS

DATE: \_\_\_\_\_

PLATE 7

| EXISTING FACILITIES |                                                       |            |                  |              |
|---------------------|-------------------------------------------------------|------------|------------------|--------------|
| ITEM                | DESCRIPTION                                           | OWNER      | STATION          | RELOCATED BY |
| W-7                 | 12" C.I. WATERLINE                                    | S&WB       | 504+00 to 521+72 | U.S. GOV'T.  |
| E-9                 | 115 KV OVERHEAD ELECTRIC LINE                         | NOPSI      | 515 + 80         | OWNER        |
| RR-2                | RAILROAD TRACK                                        | SRW        | 516 + 35         | OWNER        |
| E-10                | 24 KV AERIAL ELECTRIC LINE, POWER POLE & TRANSFORMER. | NOPSI      | 516 + 90         | OWNER        |
| E-11                | 240V OVERHEAD ELECTRIC LINE                           | NOPSI      | 518 + 03         | OWNER        |
| W-9                 | 8" C.I. WATER LINE                                    | S&WB       | 518 + 11         | OWNER        |
| W-13                | 6" C.I. WATERLINE                                     | DOCK BOARD | 518+11           | NOT AFFECT.  |
| W-10                | 8" C.I. WATERLINE                                     | DOCKBOARD  | 521+28           | U.S. GOV'T.  |



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U.S. ARMY ENGINEER DISTRICT NEW ORLEANS  
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DATE: \_\_\_\_\_ FILE NO. \_\_\_\_\_

PLATE 8