

MAP 10
CIRC. ATW. 63
SET 50KW
LOAD 47.6

DETAIL "A"

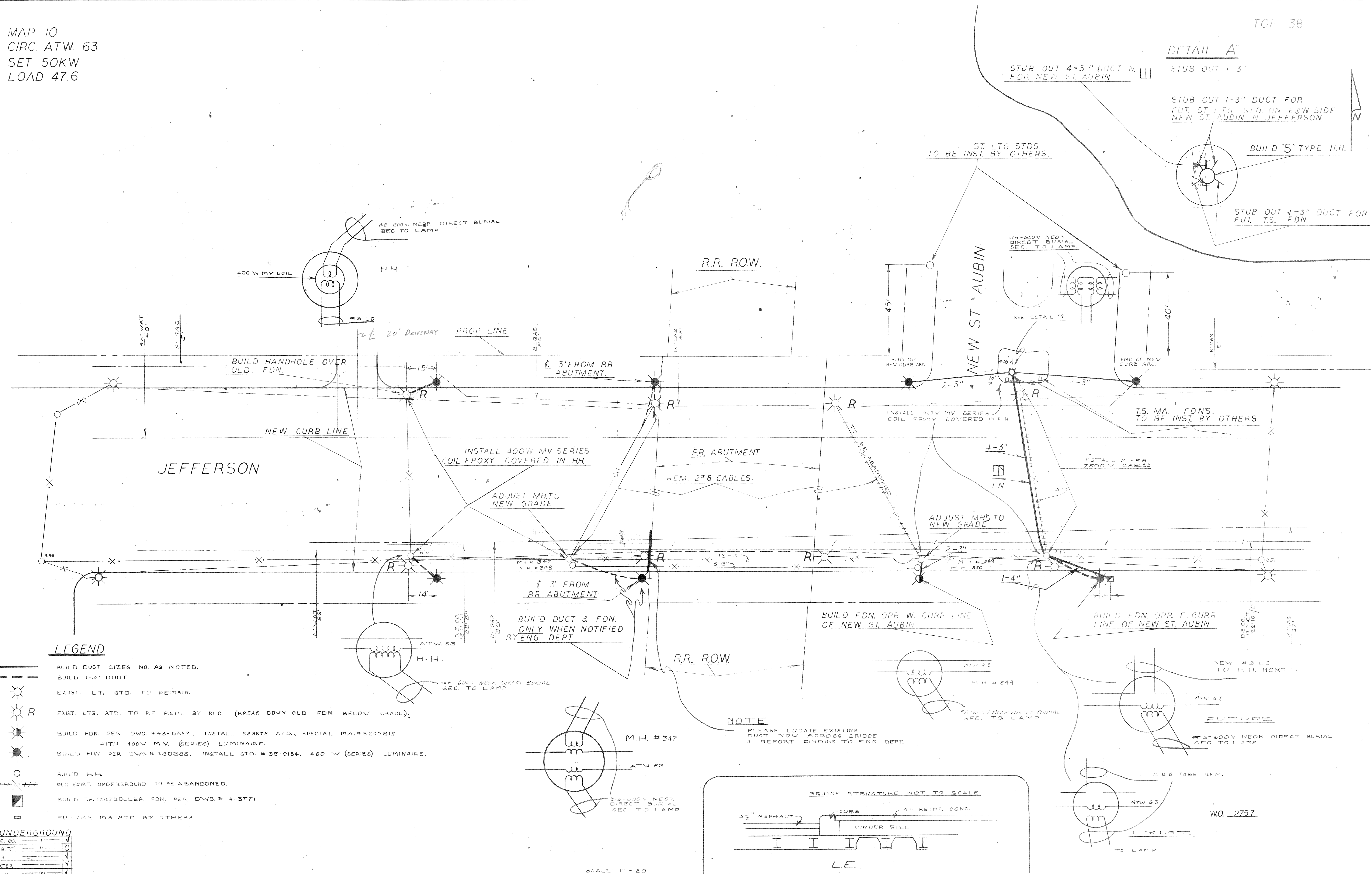
STUB OUT 4-3" DUCT N. FOR NEW ST. AUBIN

STUB OUT 1-3" DUCT FOR FUT. ST. LG. STD. ON E.W. SIDE NEW ST. AUBIN N. JEFFERSON

BUILD "S" TYPE H.H.

STUB OUT 1-3" DUCT FOR FUT. T.S. FDN.

ST. LG. STDS. TO BE INST. BY OTHERS.



LEGEND

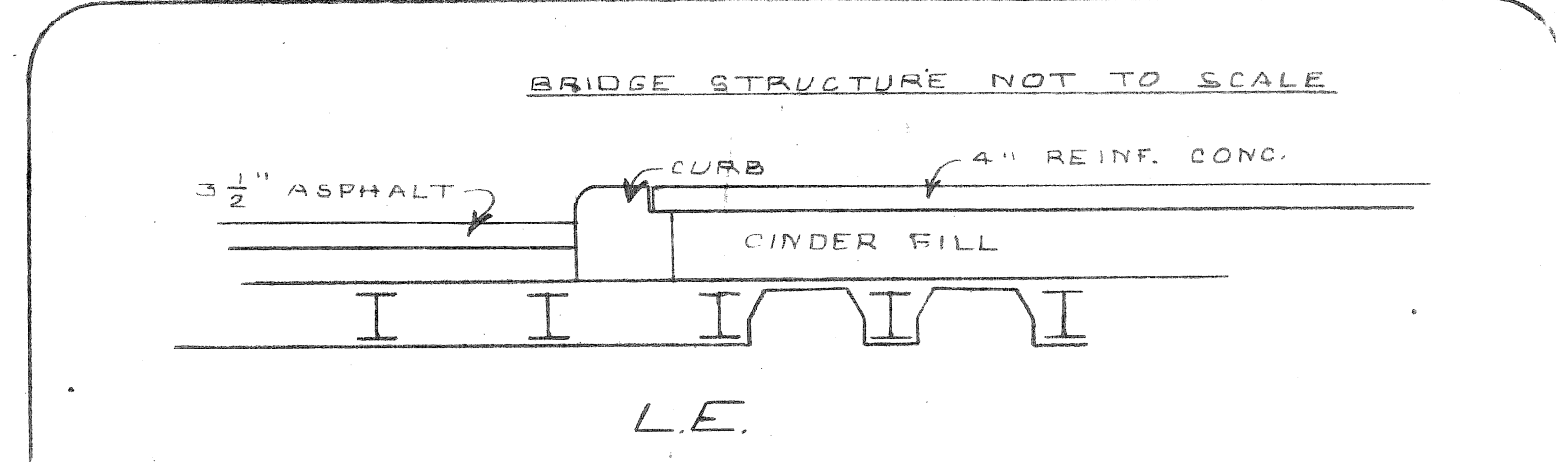
- BUILD DUCT SIZES NO. AS NOTED.
- BUILD 1-3" DUCT
- EXIST. LT. STD. TO REMAIN.
- EXIST. LTS. STD. TO BE REM. BY P.L.C. (BREAK DOWN OLD FDN. BELOW GRADE).
- BUILD FDN. PER DWG. #43-0522. INSTALL 583872 STD., SPECIAL M.A.#B200B15 WITH 400W M.V. (SERIES) LUMINAIRE.
- BUILD FDN. PER DWG.#430353. INSTALL STD.#35-0184. 400 W.(SERIES) LUMINAIRE.
- BUILD H.H.
- P.L.C. EXIST. UNDERGROUND TO BE ABANDONED.
- BUILD T.S. CONTROLLER FDN. PER DWG.#4-3771.
- FUTURE MA STD. BY OTHERS

UNDERGROUND

D.E. CO.	I	✓
M.S.T.	II	○
GAS	---	✓
WATER	---	✓
P.L.C.	---	✓

DATE	DESCRIPTION	CHKD. BY

NOTE
PLEASE LOCATE EXISTING DUCT NOW ACROSS BRIDGE & REPORT FINDINGS TO ENG. DEPT.

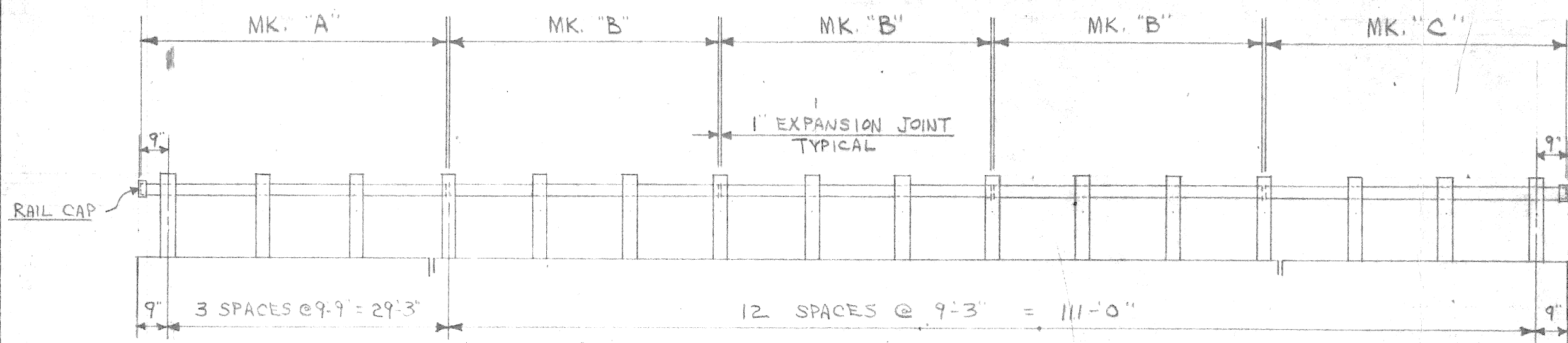


SCALE 1" = 20'

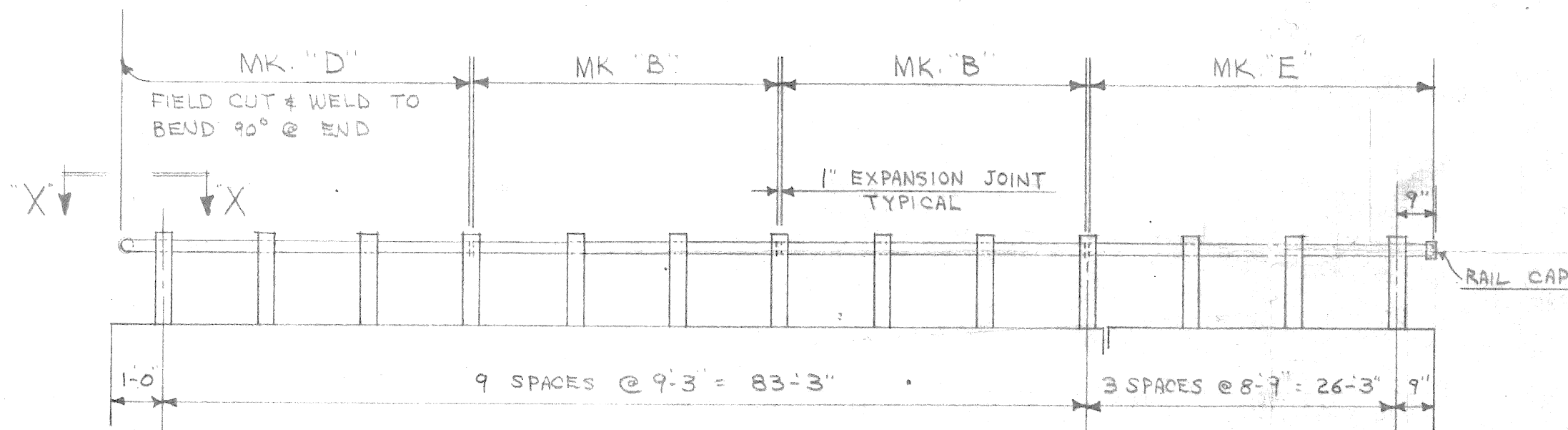
PROPOSED RELOCATION OF PLC DUCT & LIGHTING STANDARDS ON JEFFERSON & G.T.W. R.R.

DRAWN BY		FILE NO.	51-0416
CHECKED BY		SHEET NO.	10F1
APPROVED BY		DATE	2-15-67

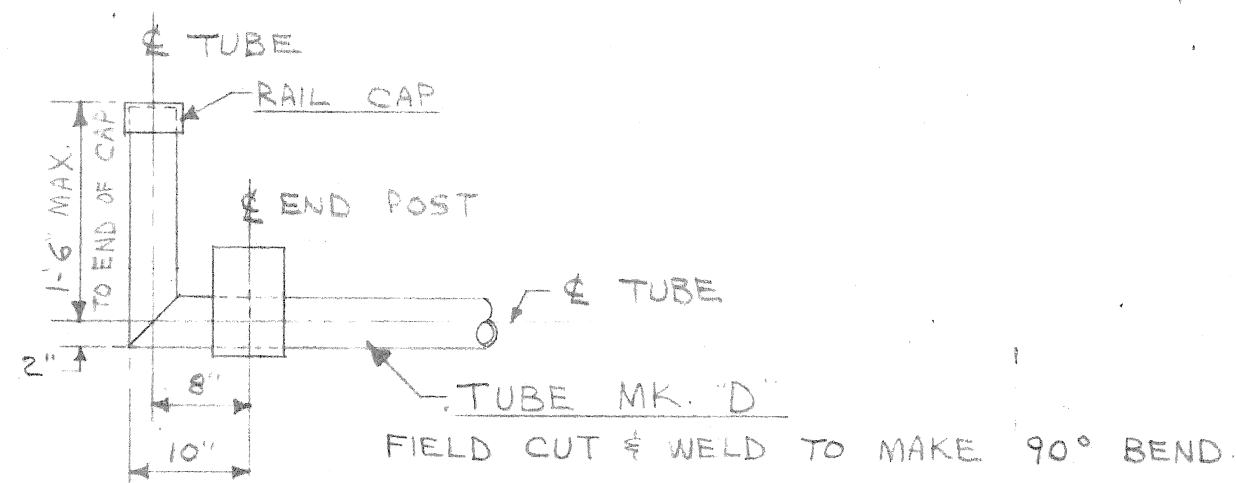
PUBLIC LIGHTING COMMISSION
CITY OF DETROIT



NORTH RAILING ELEVATION - LOOKING NORTH



SOUTH RAILING ELEVATION - LOOKING SOUTH



PLAN VIEW "X"- "X"

BILL OF MATERIAL

QUAN.	DESCRIPTION
29 EA.	ALCOA #1003 ALUMINUM CASTINGS WITH SET SCREWS.
29 EA.	FABCO SA-47 BEARING PADS x 1/8"
116 EA.	3/4" x 12" SQ. HD. MACH. BOLTS, FIN. HEX NUT (ASTM-A-307 GRADE A REG.)
	1/2" SAE WASHER x 1 1/2" O.D.
4 EA.	ALCOA #7172-4 RAILING END CAPS - 4"
	<u>ALUMINUM TUBE 4" OD. x 1/8" WALL</u>
1 EA.	MK. A x 29'-11 1/4"
5 EA.	MK. B x 27'-8"
1 EA.	MK. C x 28'-5 1/4"
1 EA.	MK. D x 29'-10 1/4"
1 EA.	MK. E x 26'-11 1/4"
	CASTING ALLOY - A-356-T6 (ASTM-B-108)
	TUBE ALLOY - 6061-T6 (ASTM-B-221)
	<u>PAY LENGTH 253 L.F.</u>

*Top oversize
see Specs. 7.11.1*

*Office Copy
Checked 7-19-67*

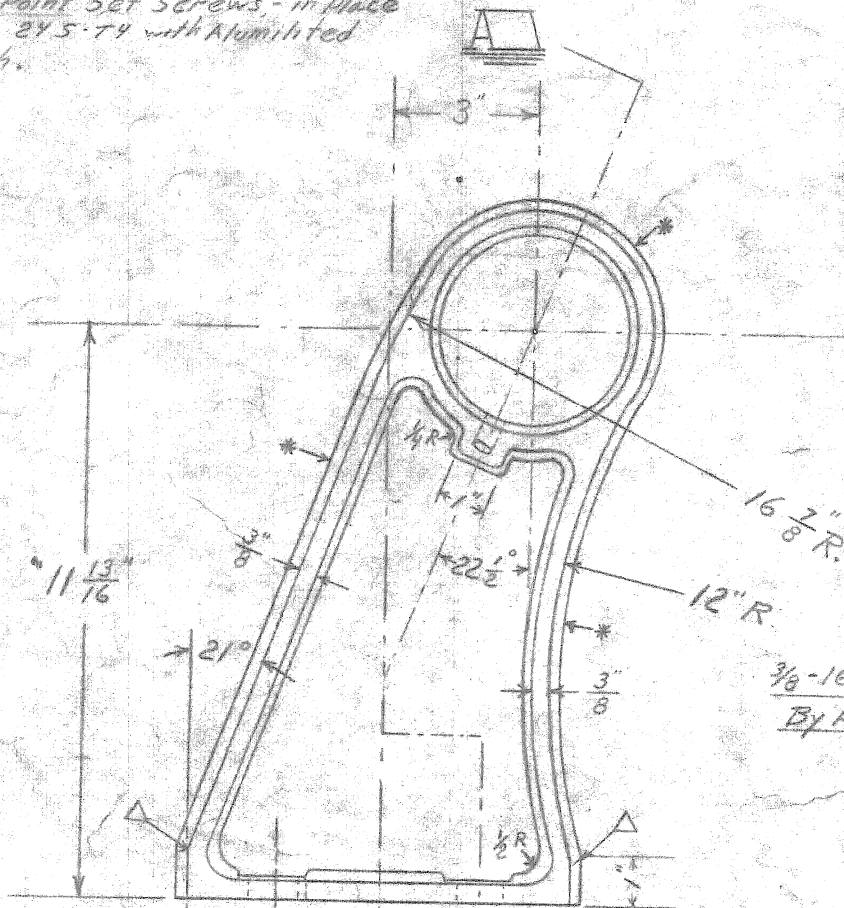
*WAL
276*

CONTRACTOR: ALVA L. GREER & SONS
 LOCATION: BRIDGE CARRYING JEFFERSON AVE.
 OVER GRAND TRUNK WESTERN R.R.
 EAST OF ORLEANS AVE.
 DETROIT, MICHIGAN

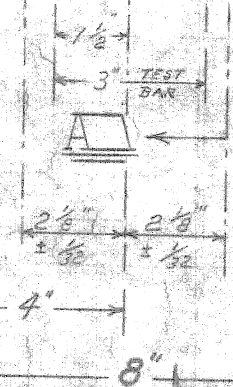
THE HAUSMAN CORPORATION			
2411 VINEWOOD AVE., DETROIT, MICHIGAN 48216			
DRAWN E.G.	SCALE NONE	REVISIONS	DATE
CHECKED			
APPROVED			
DATE 7-12-67			
TITLE BRIDGE RAILING - PARAPET TYPE			NO. 4533-1
JEFFERSON AVE. BRIDGE X068			

X068

Note: Alcoa to furnish Regd No of 3/8-16
 3/8-16 N.C. x 1" Long Slotted Head,
 Oval Point Set Screws - in Place
 Mat'l. 245-T4 with Anodized
 Finish.

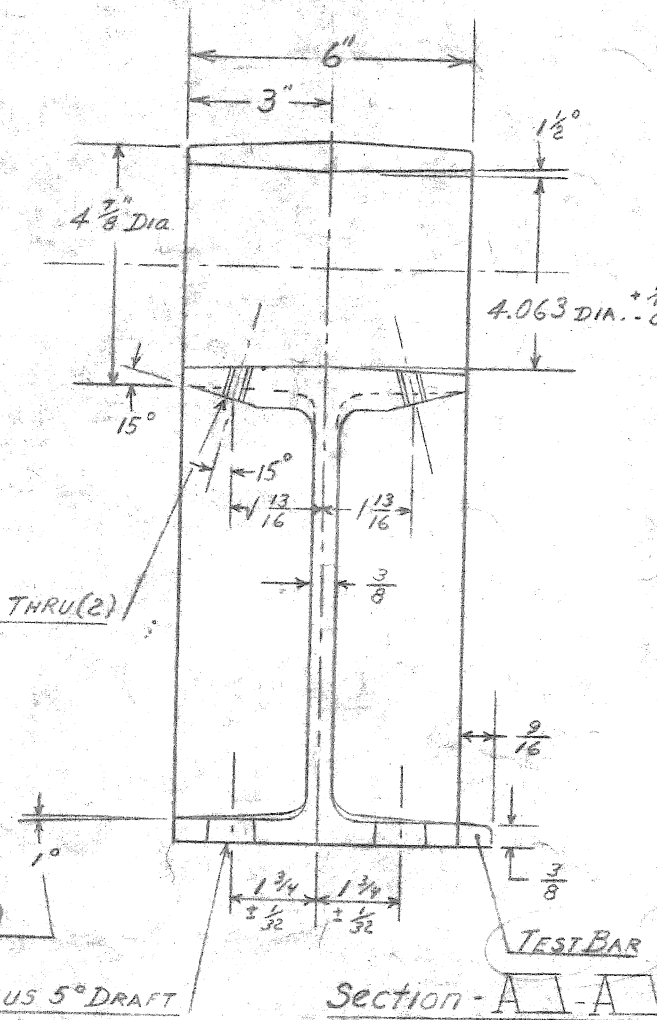


3/8-16 NC. TAP THRU (2)
 By ALCOA



Castings to be supplied with standard Alcoa
 finish on surfaces indicated by *.
 Edges Marked Δ permissible to
 radius off in grinding.

Unless Otherwise Specified: Draft Angles = 3°
 Casting Tol. ± 1/16, Wall Thickness ± 1/32



1° AT BOLT
 HOLES (4)
 1" DIA PLUS 5° DRAFT
 CORE (4) HOLES

HAUSMAN STEEL COMPANY	
TITLE: Aluminum Rail Post-Parapet Type	
MFG: Aluminum Co. of America (ALCOA)	
CSTG ALLOY: A-356-T6 ASTM B108	
DRAWN BY: J. F. Schultz	
SCALE: 1/4" = 1"	DWG No 1003

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1982 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND CONTRACT SUPPLEMENTAL SPECIFICATIONS.

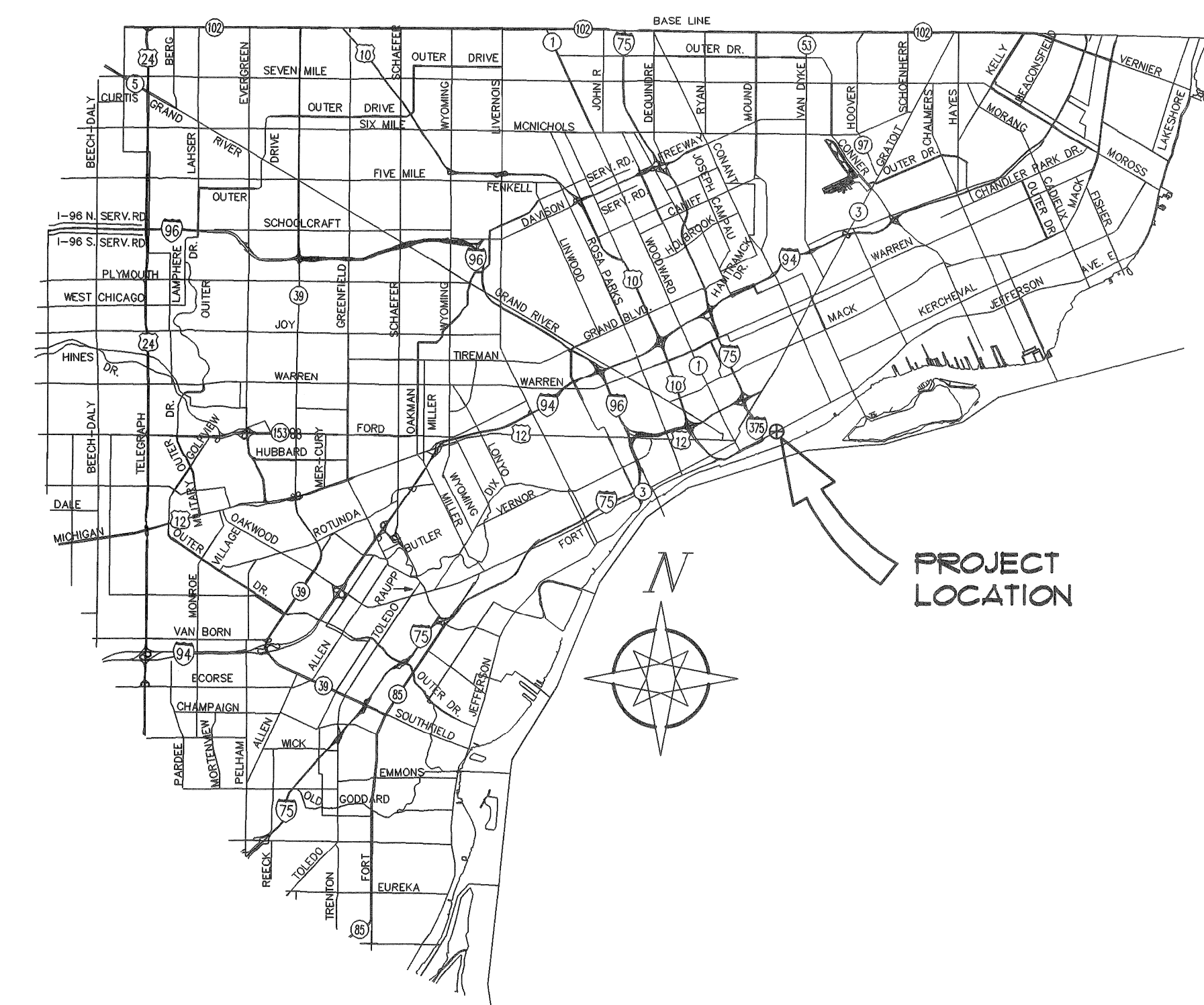
INDEX OF SHEETS

- 1 TITLE SHEET AND SITE PLAN
- 2 TEMPORARY SUPPORT DETAILS
- 3 REFERENCE DRAWING-EXISTING PIER DETAILS

SHORING
 TEMPORARY SUPPORT AND REPAIRS
 TO THE
 JEFFERSON AVE. BRIDGE OVER GTWRR (XO-68)



GENERAL PLAN
 SCALE: NTS



PRELIMINARY PLAN A
 MARCH 23, 1998

CEP

CONTRACT FOR BRIDGE REPAIR	
CITY OF DETROIT APPROVAL	
STRUCTURAL ENGINEER	DATE
CITY ENGINEER	DATE

3 WORKING DAYS,
 EXCLUDING SATURDAY,
 SUNDAY & HOLIDAYS
 BEFORE YOU DIG
 CALL MISS DIG
 800-482-7171
 (TOLL FREE)

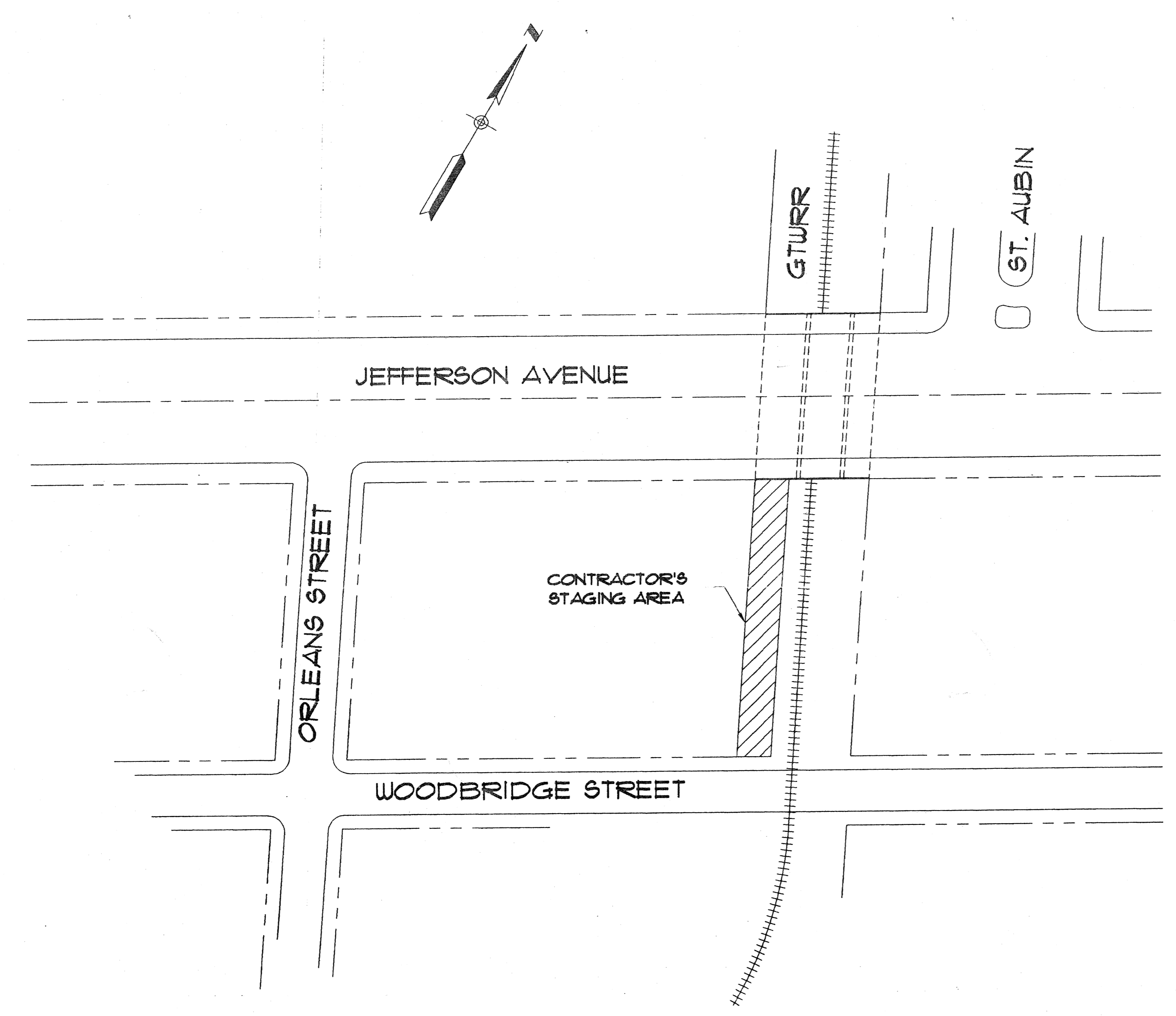
PREPARED BY
**TUCKER, YOUNG
 JACKSON, TULL INC.**
 CONSULTING ENGINEERS PLANNERS
 585 E. LARNED SUITE 300 DETROIT, MICHIGAN
 (313) 963-0612 48226

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

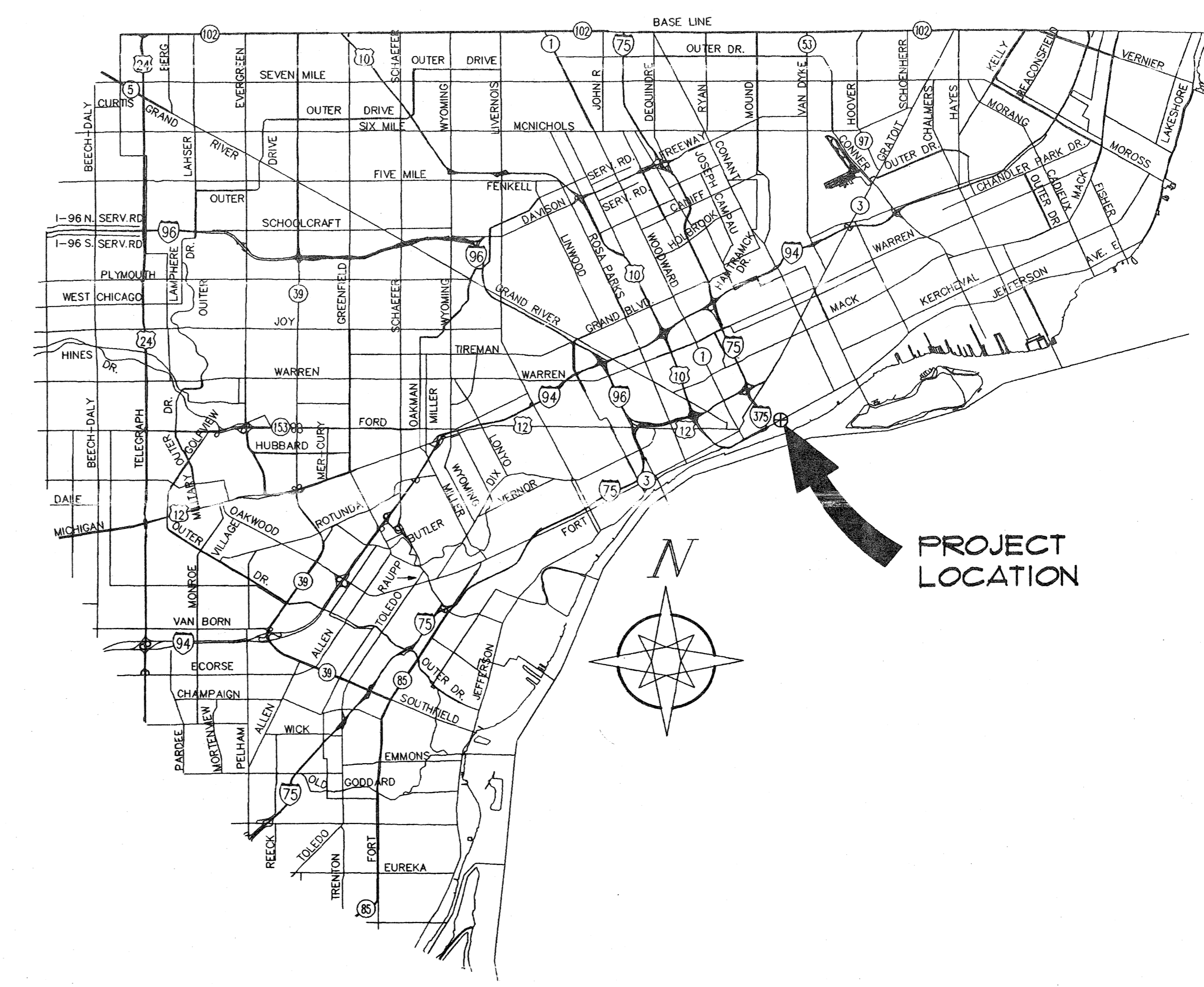
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1992 STANDARD SPECIFICATIONS FOR CONSTRUCTION.

- INDEX OF SHEETS
 1 TITLE SHEET AND SITE PLAN
 2 TEMPORARY ~~SHORING~~ DETAILS
 SUPPORT

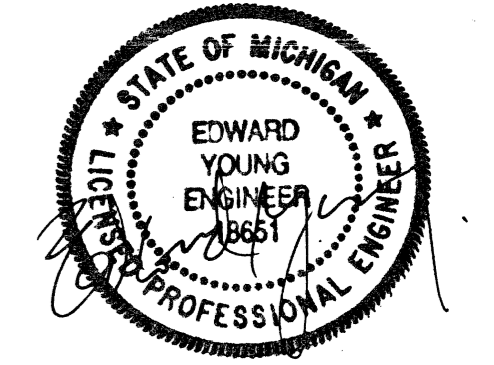
SUPPORT
 TEMPORARY ~~SHORING~~ OF THE
 JEFFERSON AVE. BRIDGE OVER GTWRR (XO-68)



GENERAL PLAN
 SCALE: NTS



1-5-99



CONTRACT FOR BRIDGE SHORING	
CITY OF DETROIT APPROVAL	
STRUCTURAL ENGINEER	DATE
CITY ENGINEER	DATE

PREPARED BY
TY TUCKER, YOUNG
 JACKSON, TULL INC.
 CONSULTING ENGINEERS PLANNERS
 565 E. LARNED SUITE 300 DETROIT, MICHIGAN
 (313) 963-0612 48226

3 WORKING DAYS,
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 CALL MISS DIG
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 (TOLL FREE)

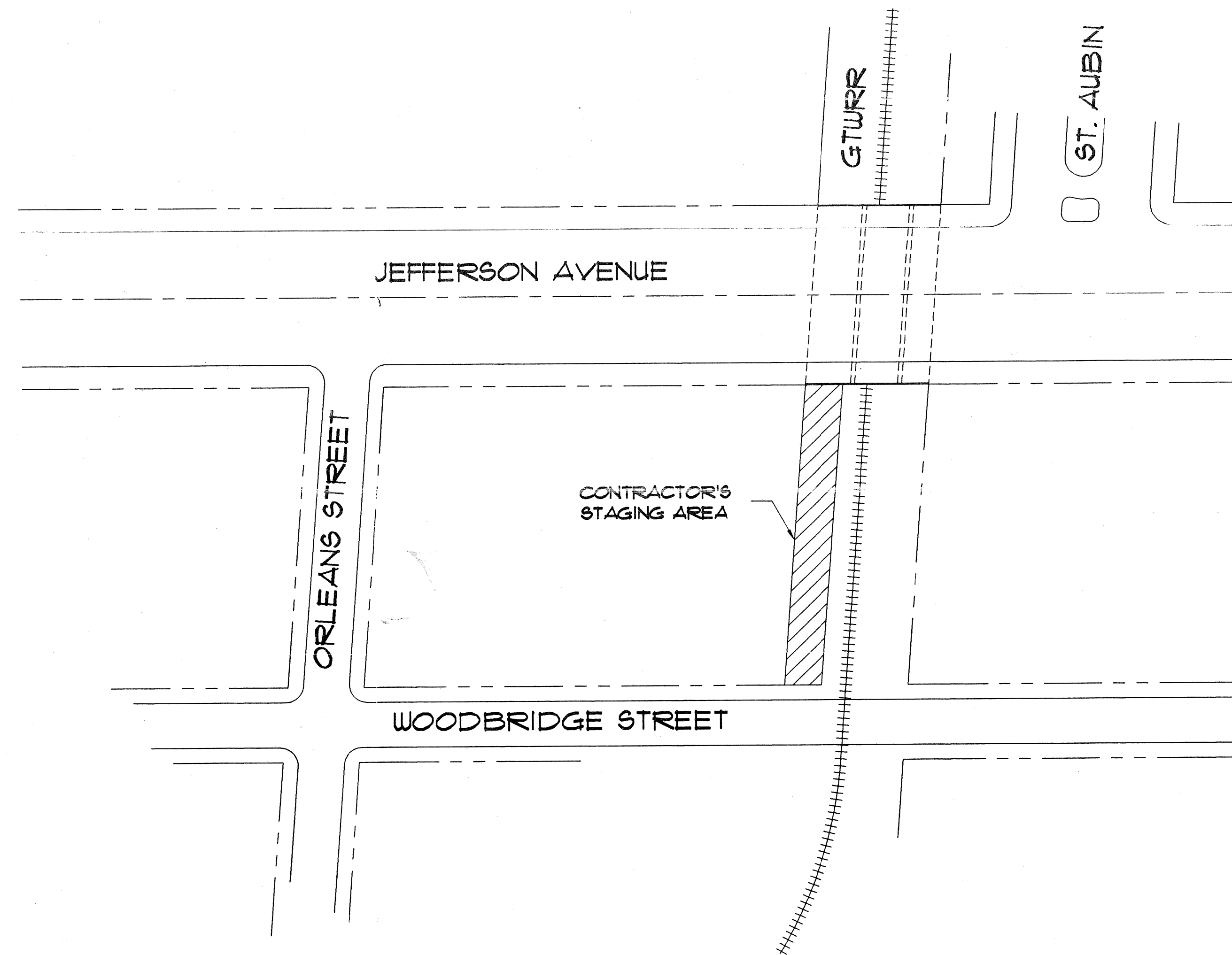
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERING DIVISION

TEMPORARY ^{SHORING} SUPPORT AND REPAIRS
 TO THE
 JEFFERSON AVE. BRIDGE OVER GTWRR (XO-68)

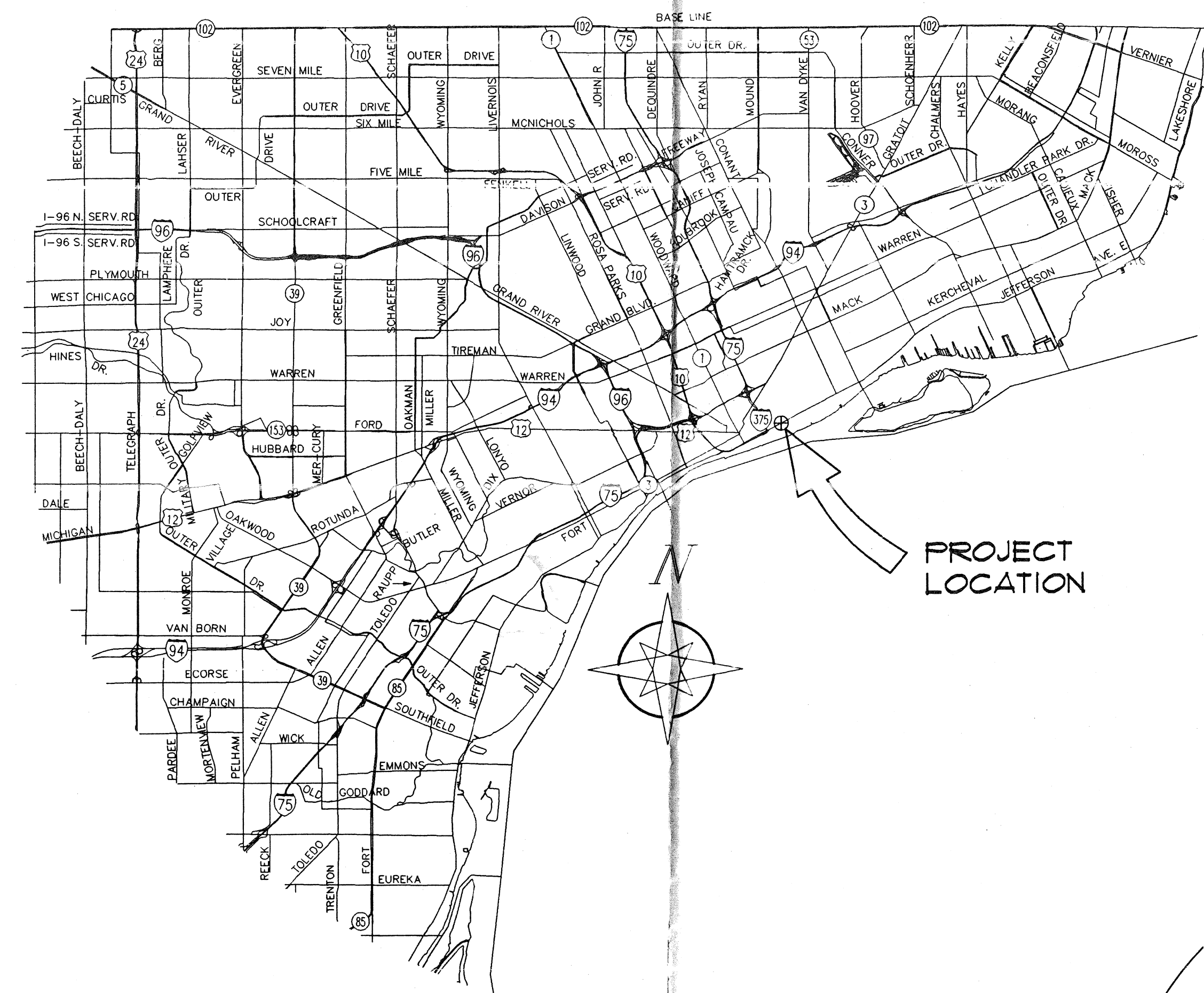
THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION 1990 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND CONTRACT SUPPLEMENTAL SPECIFICATIONS.

INDEX OF SHEETS

- 1 TITLE SHEET AND SITE PLAN
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- 3 REFERENCE DRAWING-EXISTING PIER DETAILS



GENERAL PLAN
 SCALE: NTS



PROJECT LOCATION

TAKE OUT

PRELIMINARY PLAN A
 MARCH 23, 1998

CONTRACT FOR BRIDGE REPAIR

CITY OF DETROIT APPROVAL

STRUCTURAL ENGINEER DATE

CITY ENGINEER DATE

PREPARED BY

**TUCKER, YOUNG
 JACKSON, TULL INC.**

CONSULTING ENGINEERS PLANNERS
 565 E. LARNED SUITE 300 DETROIT, MICHIGAN 48206

3 WORKING DAYS,
 EXCLUDING SATURDAY,
 SUNDAY & HOLIDAYS
 BEFORE YOU DIG
 CALL MISS DIG
 800-482-7171
 (TOLL FREE)

- b. Use 0.1 x flange width rounded up to nearest 1/8" for assumed eccentricity.
- c. Weld to jack base plate.

7. Jack Bearing Plate Design

- a. Size for bending about centerline existing girder or beam web.
- b. Use load on channel shims for bending calculations.
- c. Use $F_b = 0.75 F_y$.

8. Hydraulic Jack Capacity

- a. Specify minimum jack capacity required (based on axial load only).

9. Timber Footing Design

- a. Use double mat (minimum) with square or rectangular timbers.
- b. Size for axial load plus bending. Use eccentricity assumed in column design. Use allowable soil pressure from Soils Section, Materials and Technology Division.
- c. Check flexure and horizontal shear. Allow 25 percent overstress to account for short duration of loading.
- d. Column base plate full width across top mat.
- e. Top mat full width across bottom mat.
- f. Specify channels lag-bolted to timbers across top of both mats, each end (lag-bolt to each timber).

10. Concrete Footing Design

- a. Use bottom mat steel reinforcement only, both directions.

7.06.04

- b. Size for axial load plus bending. Use eccentricity assumed in column design. Use allowable soil pressure from Soils Section, Materials and Technology Division.
- c. Check flexure, beam (one way) shear and slab (punching) shear.
- d. Specify concrete to be stenciled with "top" on side opposite steel reinforcement.

11. Footing Placed on Soil

- a. Specify compaction of original ground to not less than 95 percent of its maximum unit weight to a depth of 9" and to 1'-6" outside footing outline.
- b. Specify Structure Embankment (CIP), if required, to 1'-6" outside footing outline.
- c. Specify level under footing.
- d. Specify Granular Material Class III, compacted to not less than 95 percent of its maximum unit weight, to 1'-6" outside footing outline for leveling.
- e. Specify 1-on-1 slope down to natural ground for all required fill material.

12. Footing Placed on Pavement or Paved Shoulder

- a. Specify level under footing.
- b. Specify 21AA aggregate, asphaltic cold patch material, or approved equal to 1'-6" outside footing outline for leveling.
- c. Specify 1-on-1 slope down to pavement for required fill material.

13. Placement of Temporary Support

- a. Centerline temporary support under area where pin plate exists.
- b. Centerline temporary support under stiffener, if possible.
- c. Show location on plans.

DRAWN BY: GL
 CHECKED BY: CHC
 APPROVED BY:

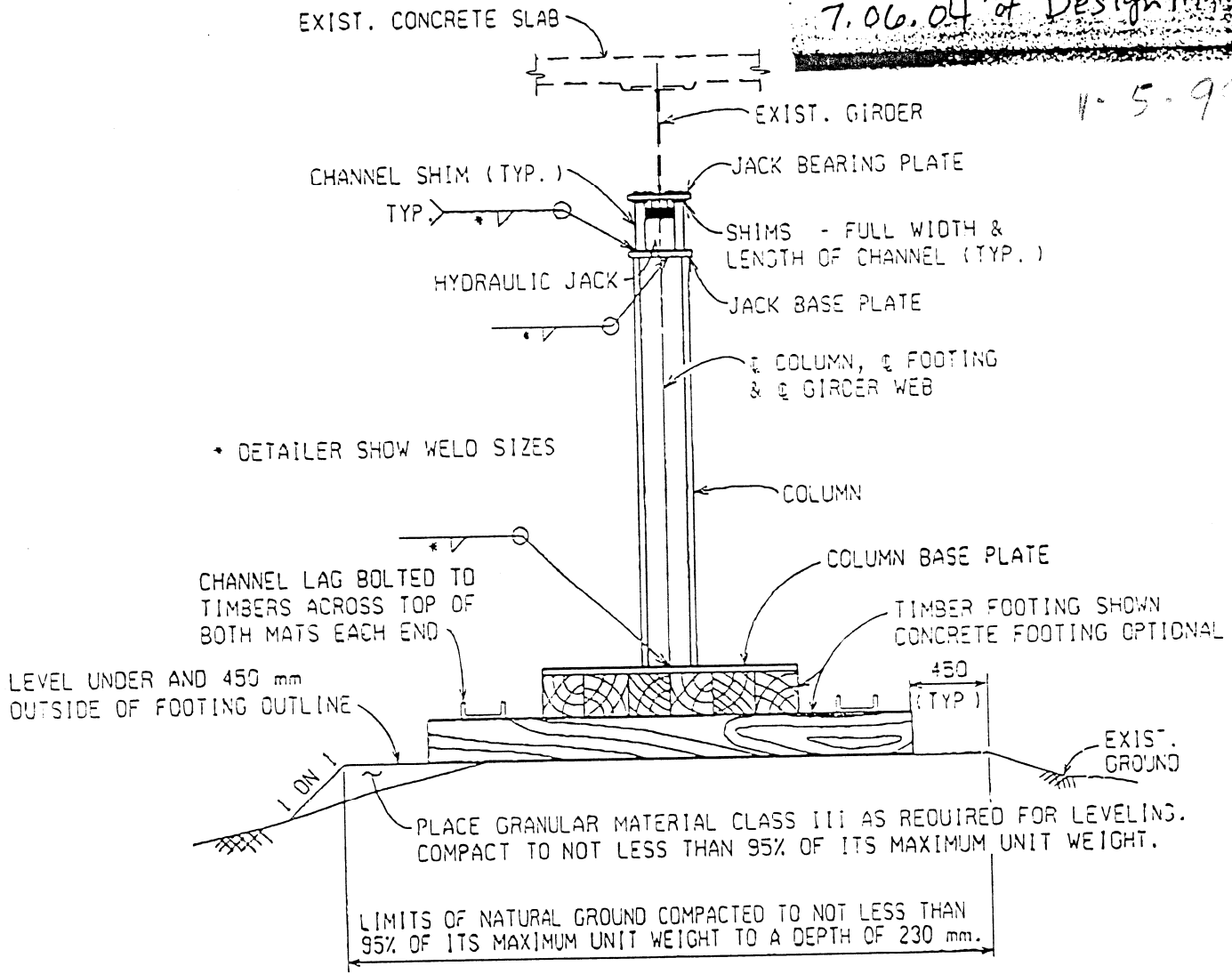
MICHIGAN DEPARTMENT OF TRANSPORTATION-BUREAU
 DETAIL OF TEMPORARY
 SUPPORT FROM BELOW

Standard Pay Item:
 7130015 "Support, Column, Temp."

Post-It® Fax Note	7671	Date	2/28	# of pages	1
To:	Rudy Floro	From:	Linda Reed		
Co./Dep:	City of Detroit	Co.:	MDOT		
Phone #		Phone #	517/373-2245		
Fax #	313/224-3471	Fax #			

→ No Special Provision Needed
 Refer to Section 713 of
 1996 Spec Book
 For Design, see section
 7.06.04 of Design Manual

1-5-97



ELEVATION
 (FOOTING PLACED ON SOIL SHOWN)

PREPARED BY
 DESIGN DIV. APPENDIX 7.06.04