

11/1/00 OWNERS REVIEW			

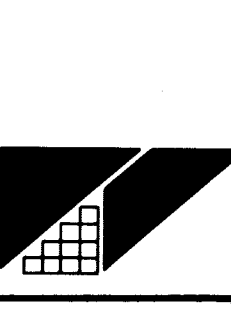
SITE PLAN

Sheet Title

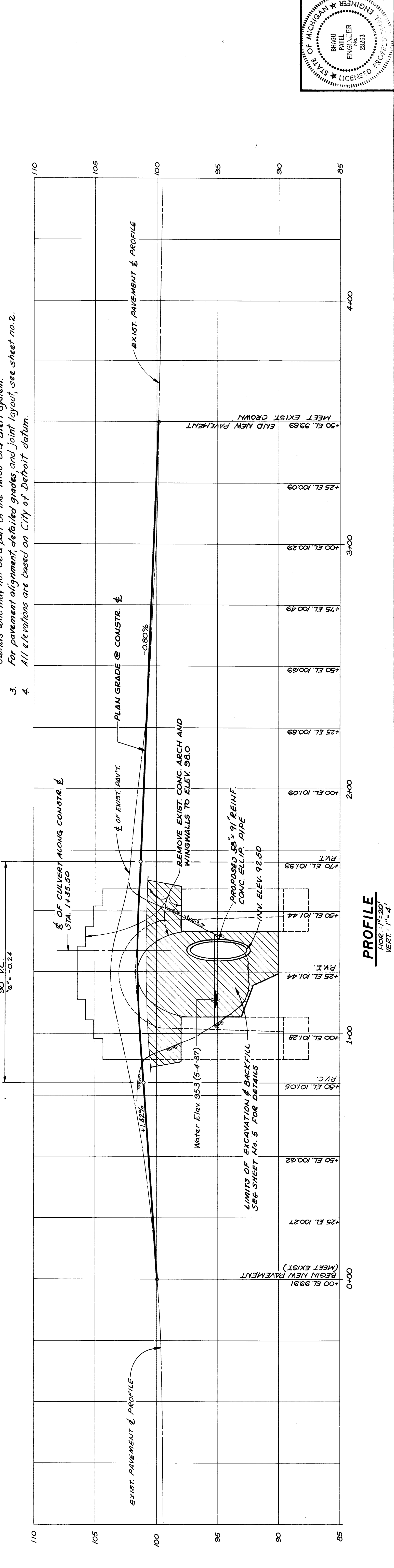
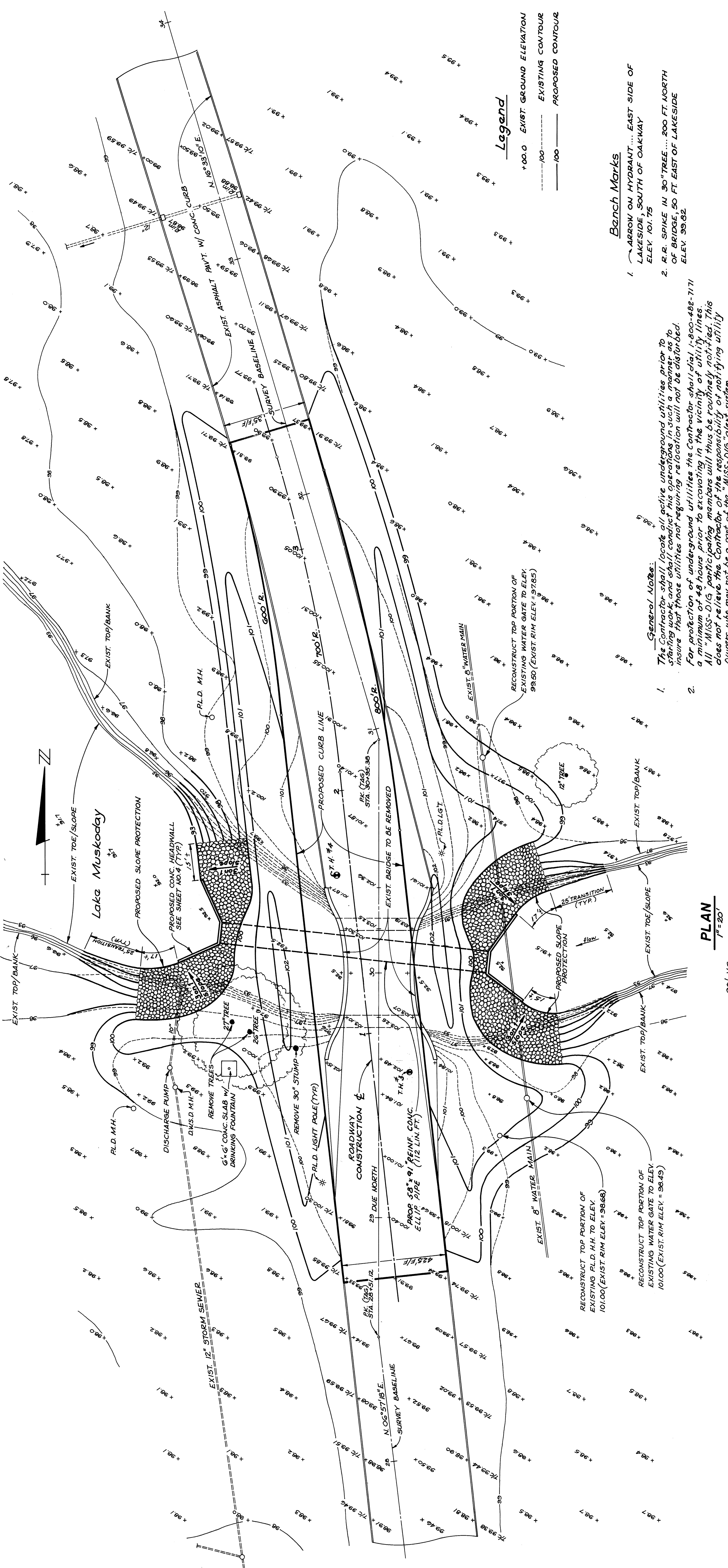
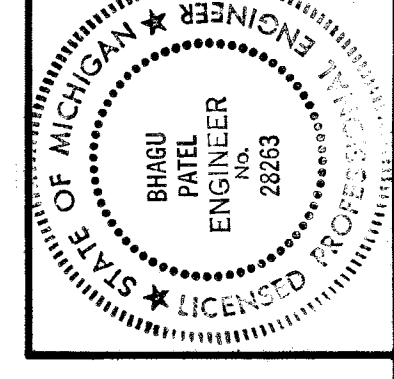
CITY OF DETROIT LAKESIDE DRIVE CULVERT

Project

MADISON MADISON
INTERNATIONAL OF MICHIGAN
Engineers, Architects, Planners
515 Griswold Street
Detroit, Michigan 48226



DESIGN BY K.C.H.	DATE FEB. 1989	PROJECT NO. 86-05	SHEET NO. 1
DRAWN BY K.C.H.	SO.		
CHECKED BY			



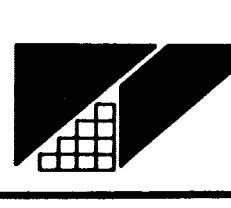
SITE PLAN

Sheet Title

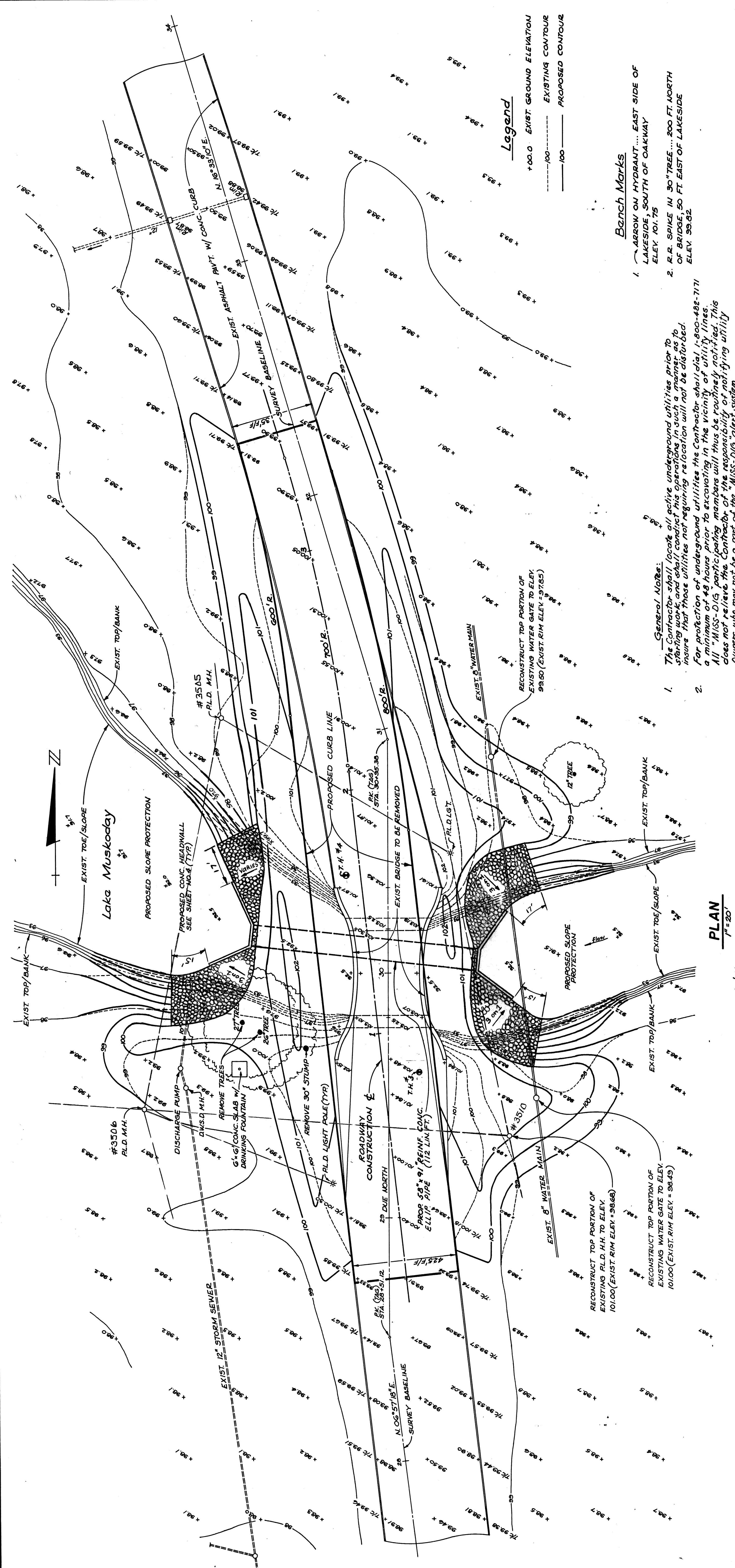
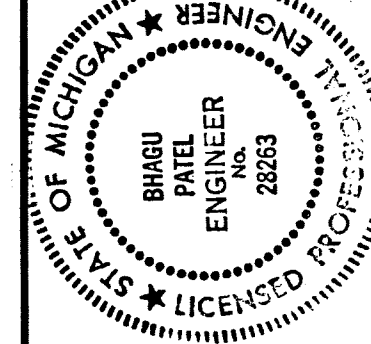
CITY OF DETROIT
 LAKE SIDE DRIVE
 CULVERT

Project

MADISON MADISON
 INTERNATIONAL OF MICHIGAN
 Engineers, Architects, Planners
 Detroit, Michigan 48226



DESIGN BY K.C.H.
 DRAWN BY K.C.H.
 CHECKED BY S.O.
 DATE FEB. 1989
 PROJECT NO. 8605
 SHEET NO. 1-R

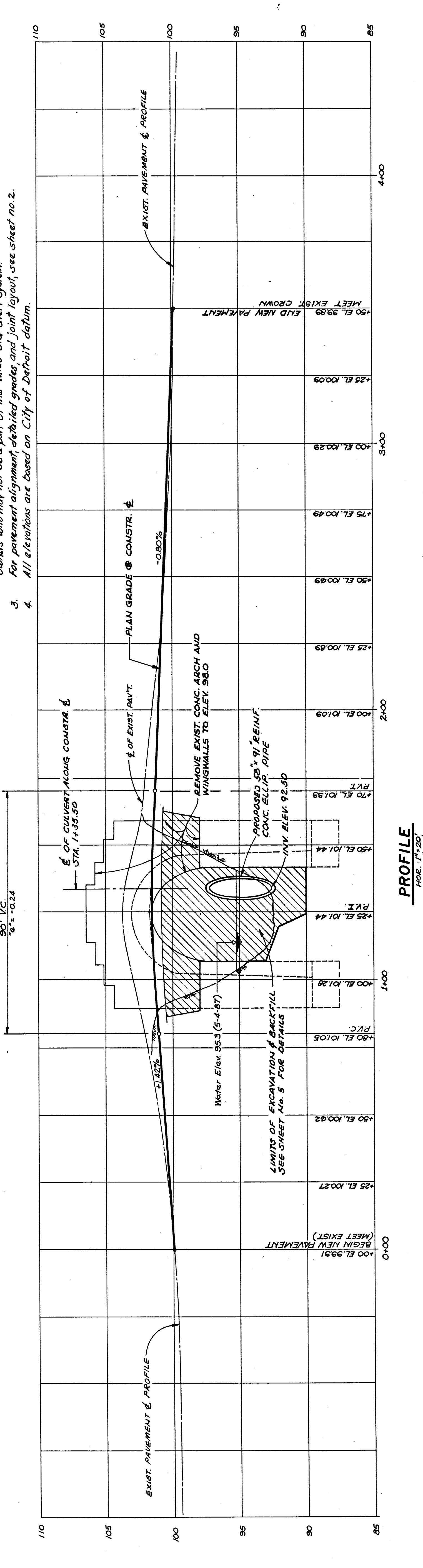


Legend
 +00.0 EXIST. GROUND ELEVATION
 --- EXISTING CONTOUR
 --- PROPOSED CONTOUR

Bench Marks
 1. ARROW ON HYDRANT ... EAST SIDE OF LAKE SIDE, SOUTH OF OAKWAY ELEV. 101.75
 2. R.R. SPIKE IN 30\"/>

General Notes:
 1. The Contractor shall locate all active underground utilities prior to starting work and shall conduct his operations in such a manner as to insure that these utilities not requiring relocation will not be disturbed.
 2. For protection of underground utilities the Contractor shall dial 1-800-482-7171 a minimum of 48 hours prior to excavating in the vicinity of utility lines. All MISS-DIG participants will thus be routinely notified. This does not relieve the Contractor of the responsibility of notifying utility owners who may not be a part of the MISS-DIG alert system.
 3. For pavement alignment, detailed grades and joint layout, see sheet no. 2.
 4. All elevations are based on City of Detroit datum.

PLAN
 1"=20'



PROFILE
 1/8\"/>

11/1/08	OWNERS REVIEW

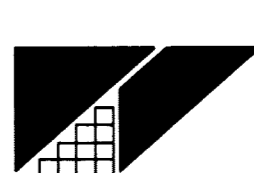
**ALIGNMENT DIAGRAM
AND DETAILED GRADES**

Sheet Title

**CITY OF DETROIT
LAKE SIDE DRIVE
CULVERT**

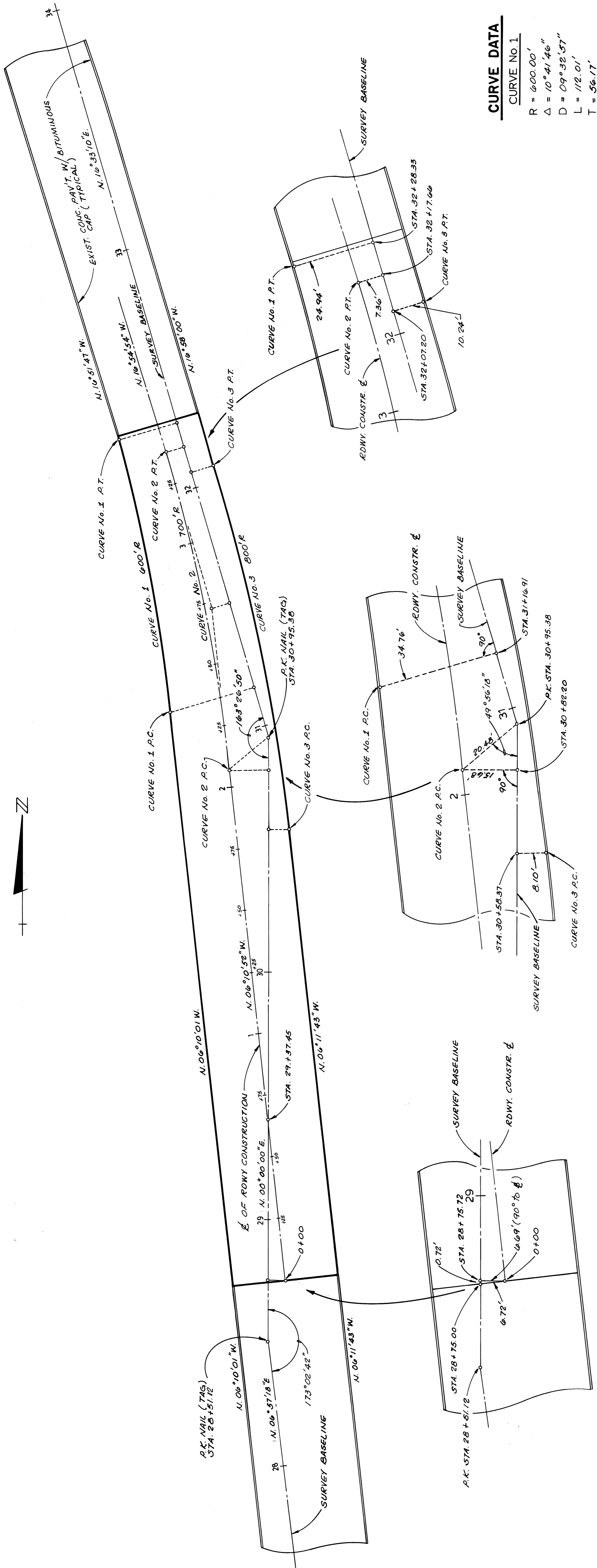
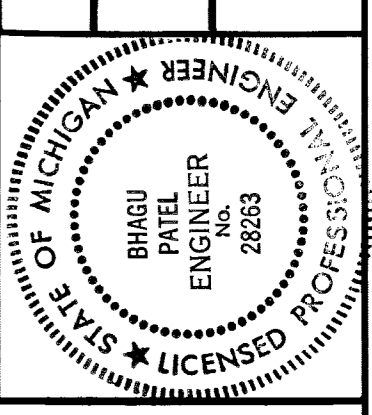
Project

MADISON MADISON
INTERNATIONAL OF MICHIGAN
Engineers, Architects, Planners
1420 Washington Blvd.
Detroit, Michigan 48226

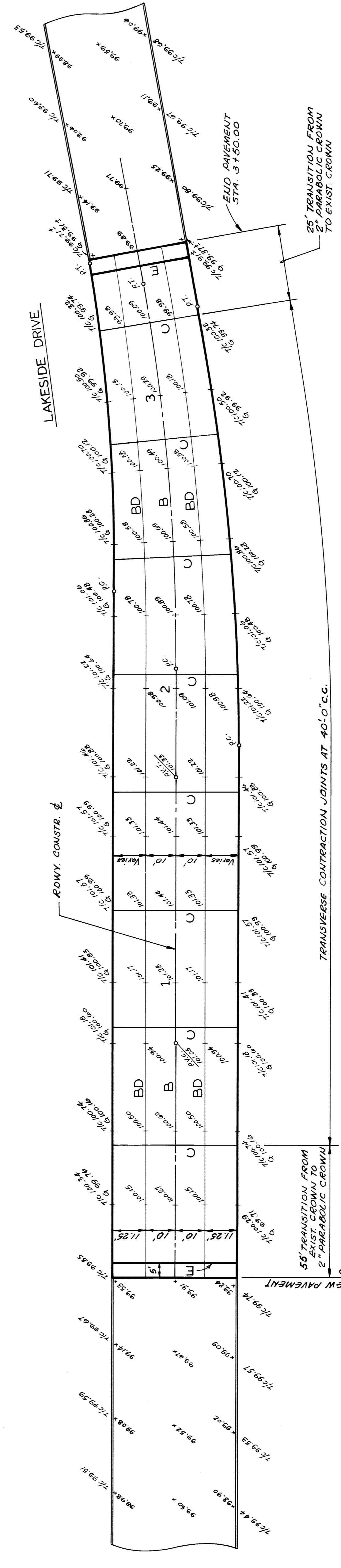


DESIGN BY
K.C.H.
DRAWN BY
C.V.G.
CHECKED BY
S.O.

DATE
FEB. 1989
PROJECT NO.
8605
SHEET NO.
2

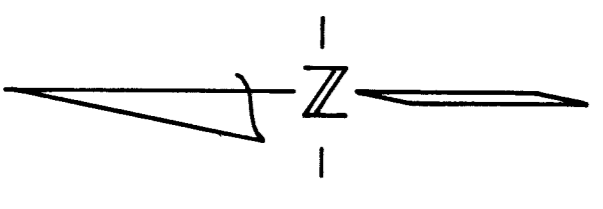
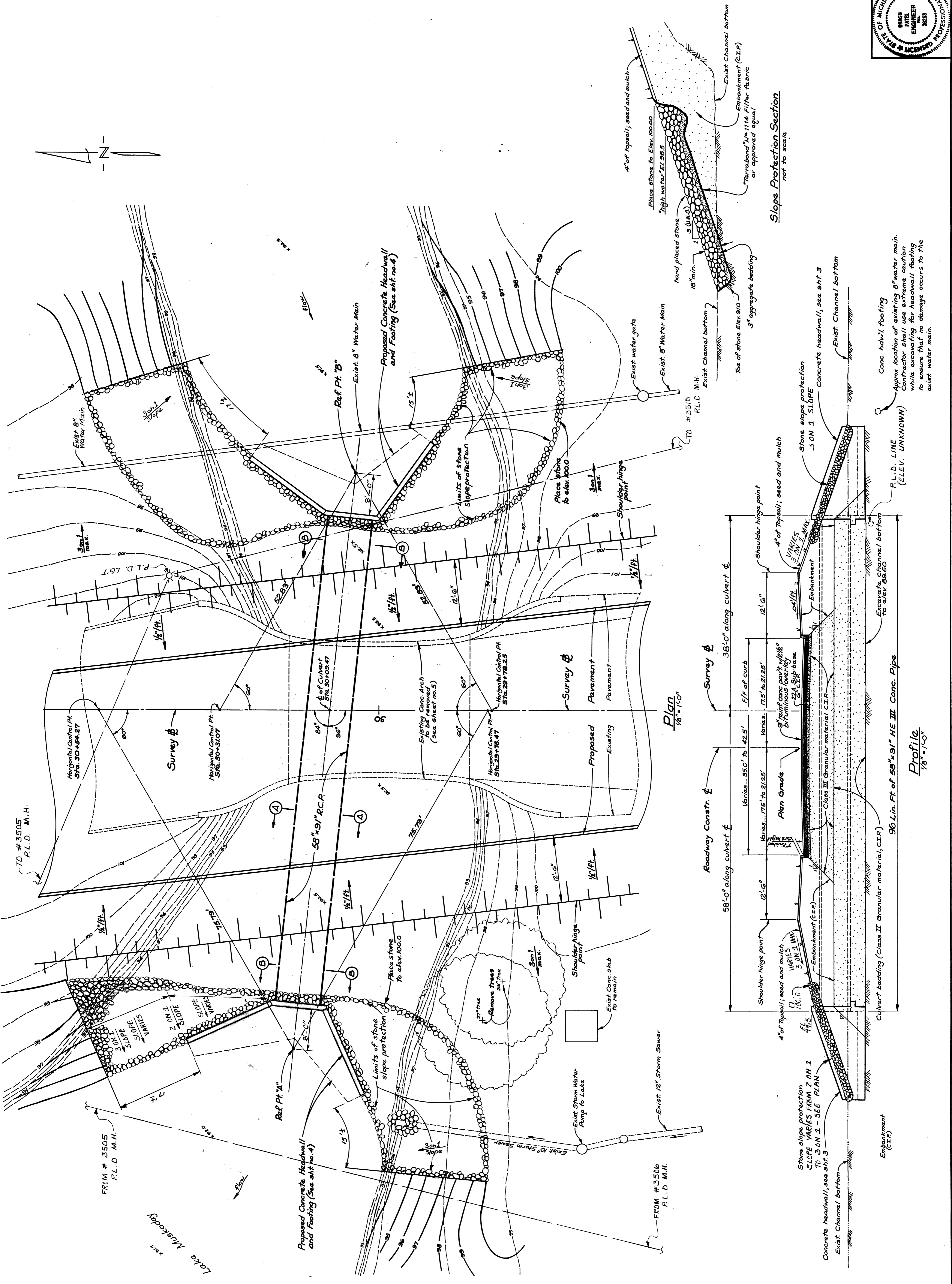
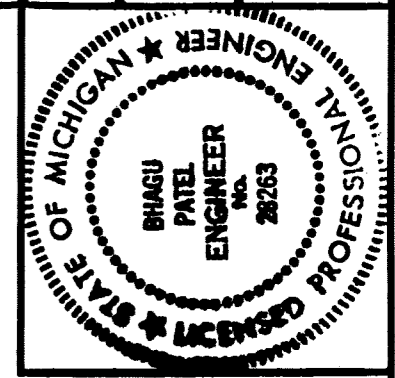


ALIGNMENT DIAGRAM
1" = 20'



DETAILED GRADES
1" = 20'

- Notes**
1. For joint details see City of Detroit std. dwg. # C-4943.
 2. For pavement & profile see sheet no.1.
 3. All elevations are based on City of Detroit datum.
 4. See sheet no.1 for bench marks
 5. For joint filler material see "Special provision for sealing transverse joints with silicone sealant."
 6. See sheet no.5 for stage construction details.
 7. Pavement elevations given are to finished grade bituminous overlay.

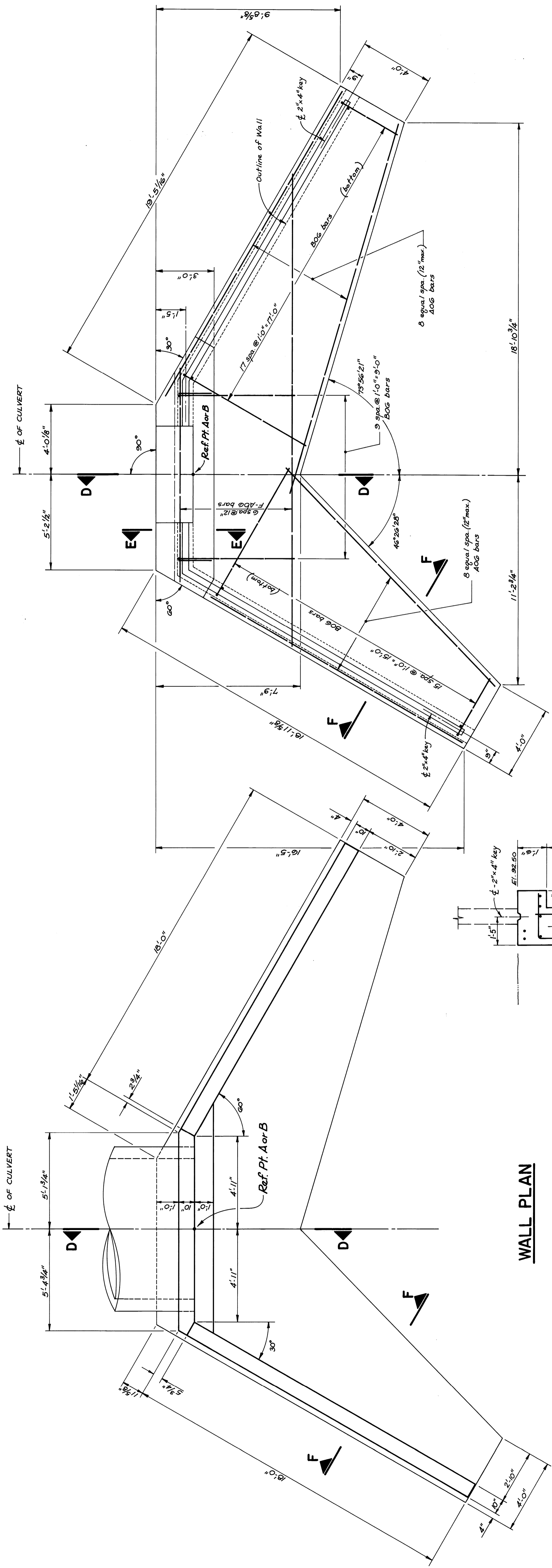
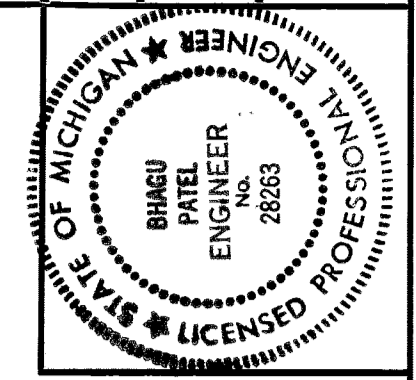


Slope Protection Section
 not to scale

Conc. Adv'l. footing
 Approx. location of existing 8" water main.
 Contractor shall use extreme caution
 while excavating for headwall footing
 to ensure that no damage occurs to the
 exist. water main.

Profile
 1/8" = 1'-0"

Plan
 1/8" = 1'-0"

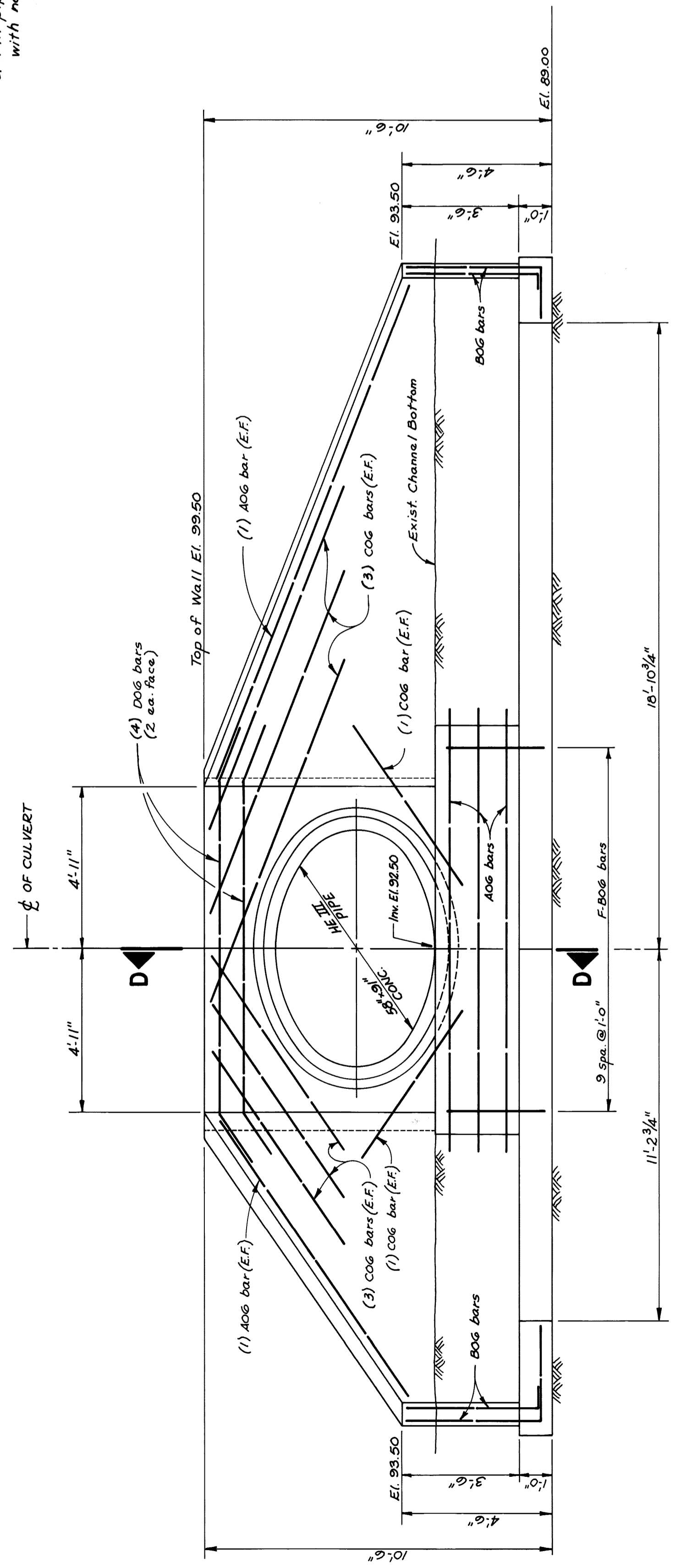


WALL PLAN

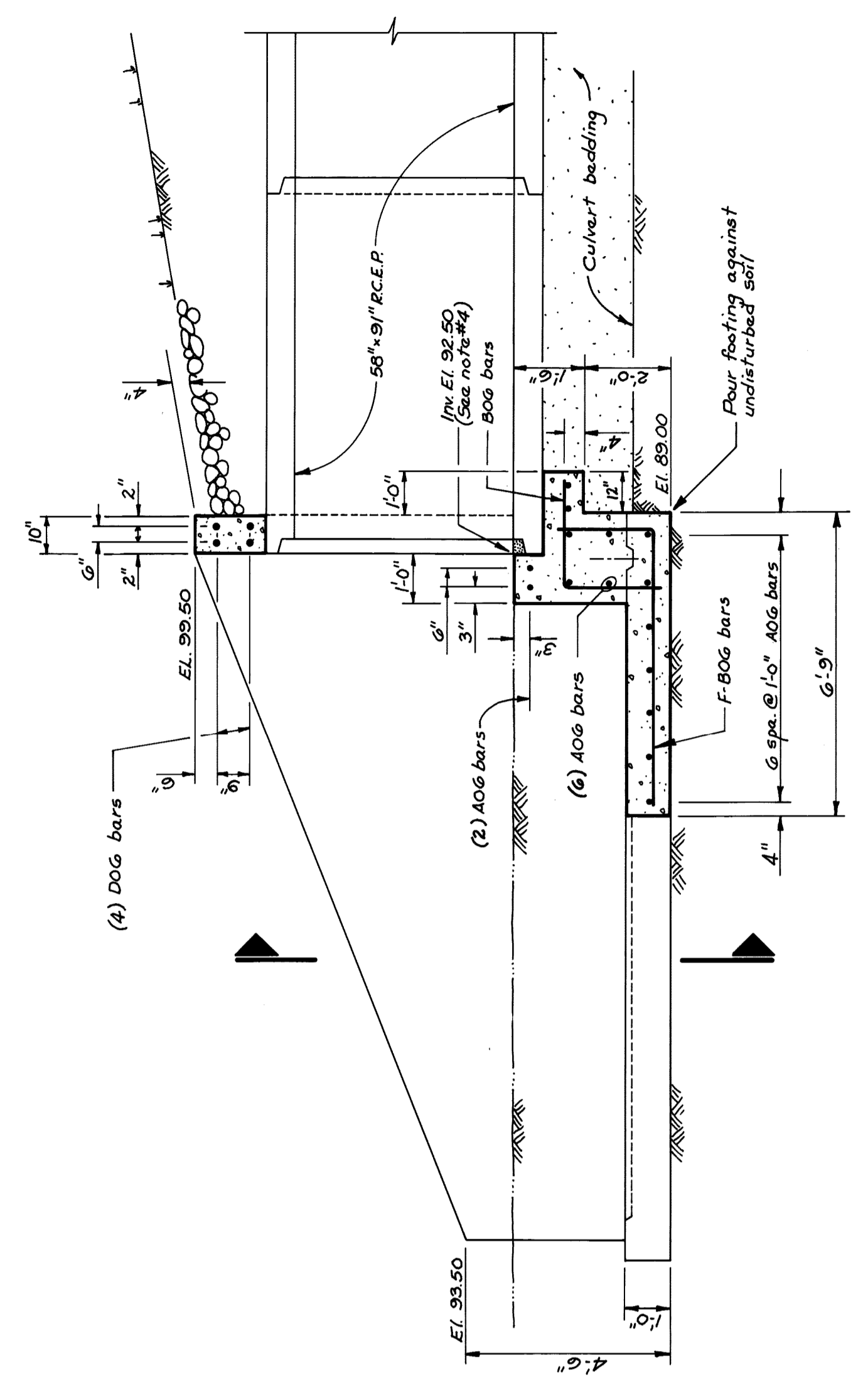
FOOTING PLAN

- Notes:
1. All exposed edges shall be beveled one-half (1/2) inch.
 2. The bell or grooved end of the pipe shall be placed upstream with end of pipe flush with headwall face.
 3. Fill pipe groove along flow line at face of wall with non-shrink grout.

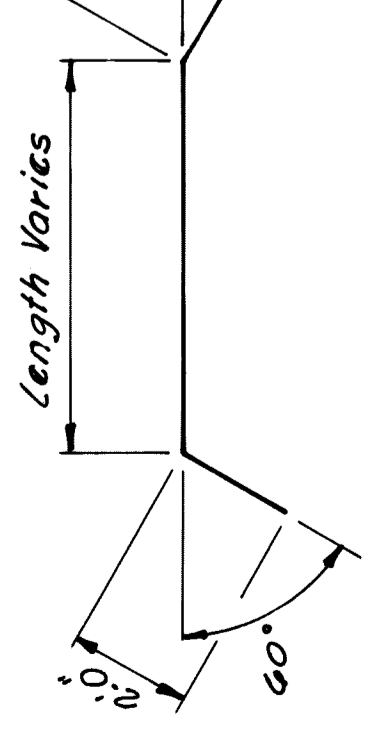
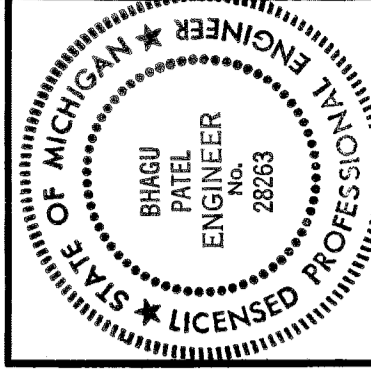
SECTION E-E



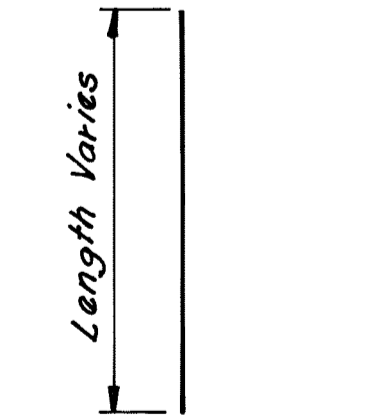
ELEVATION



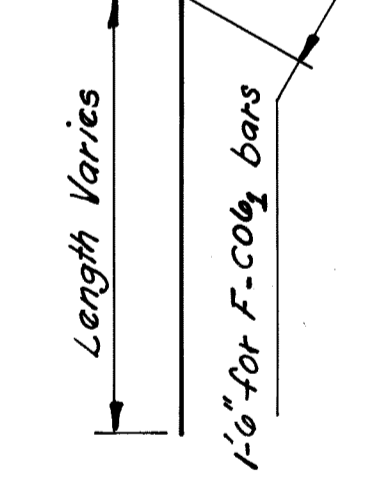
SECTION D-D



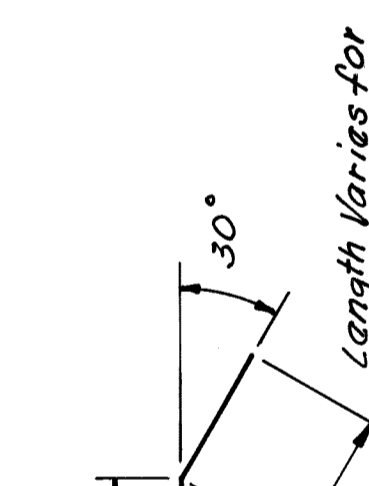
D06 bars



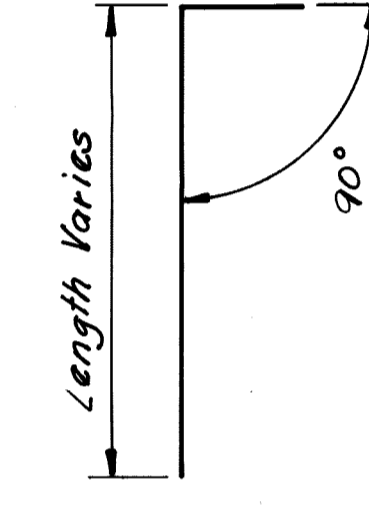
A06 bars



C06 bars



W-C06 bars

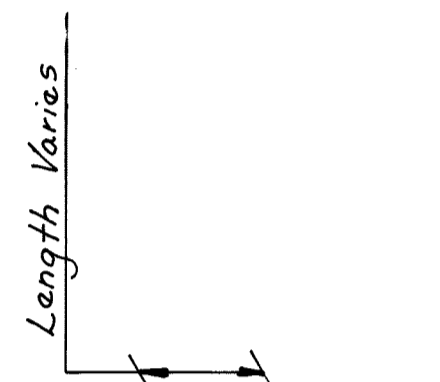


B06 bars

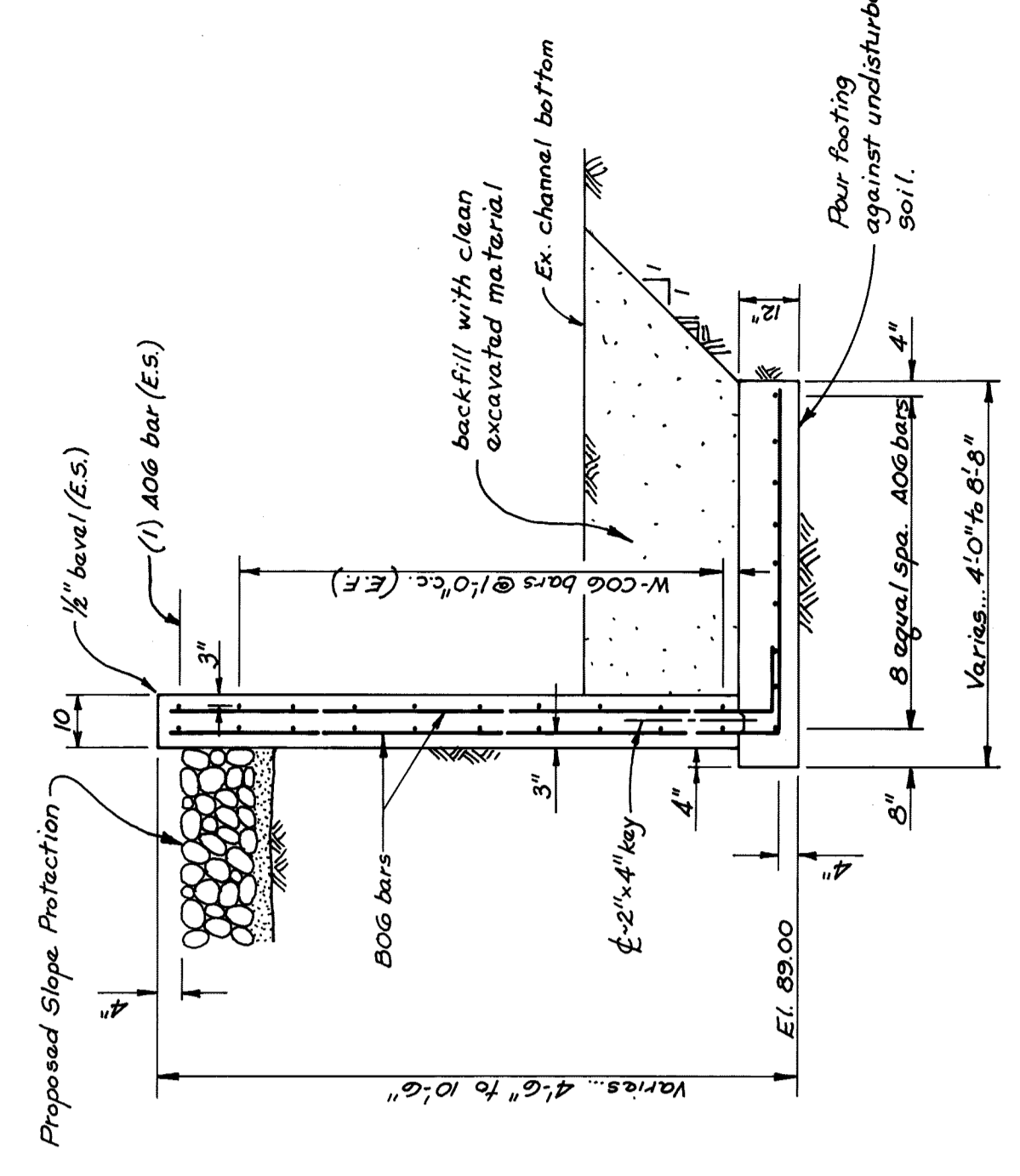
Granular Material, Class III, Compacted in place. Class II material may be used at Contractor's option.

9" uniform, reinforced concrete pavement with 2 1/2" thick bituminous overlay.

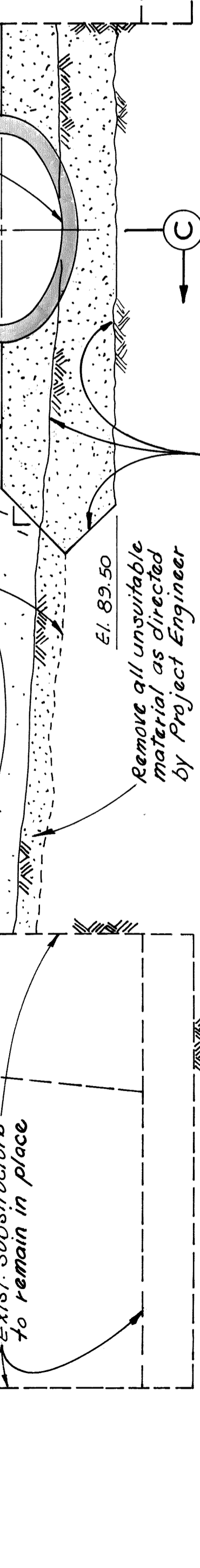
Remove existing concrete arch and wingwalls to elev. 98.0 (typical).



SECTION F-F



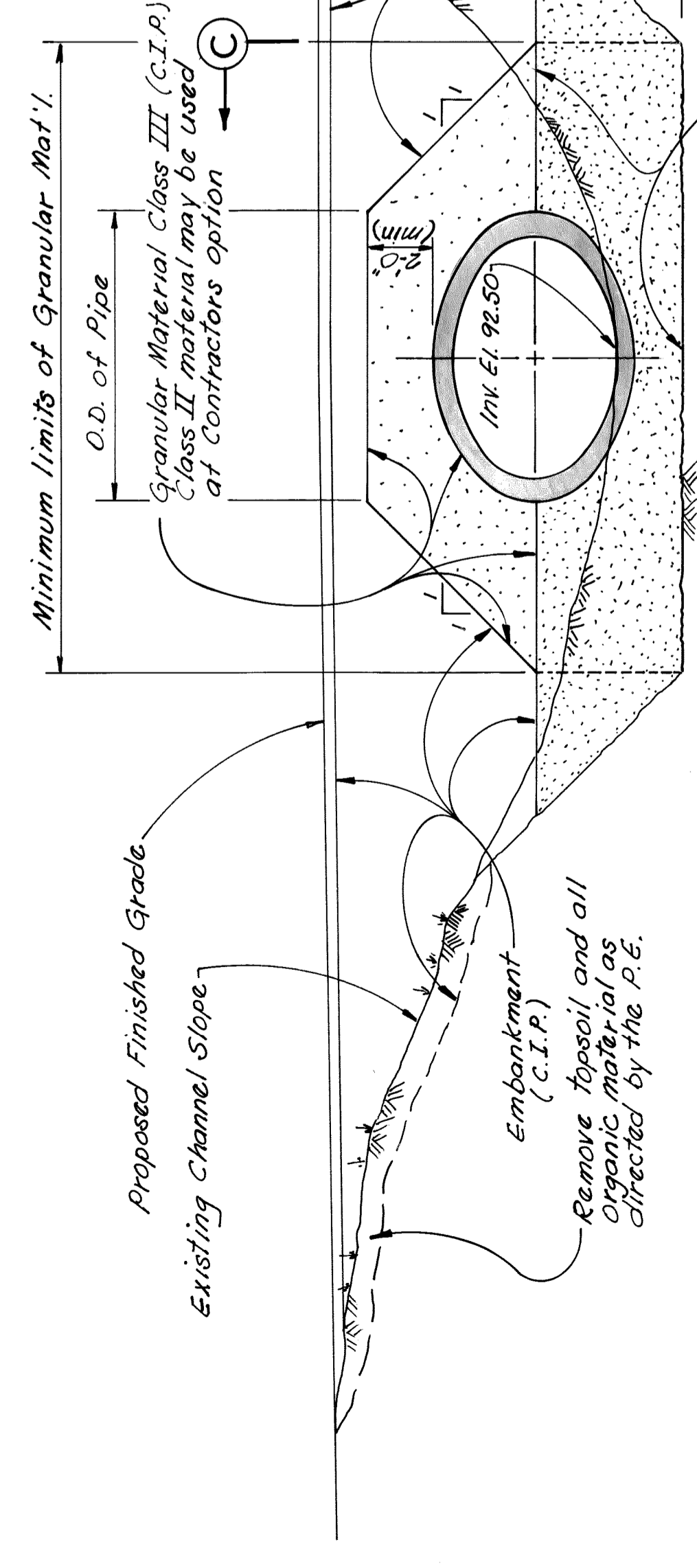
SECTION F-F



SECTION A-A

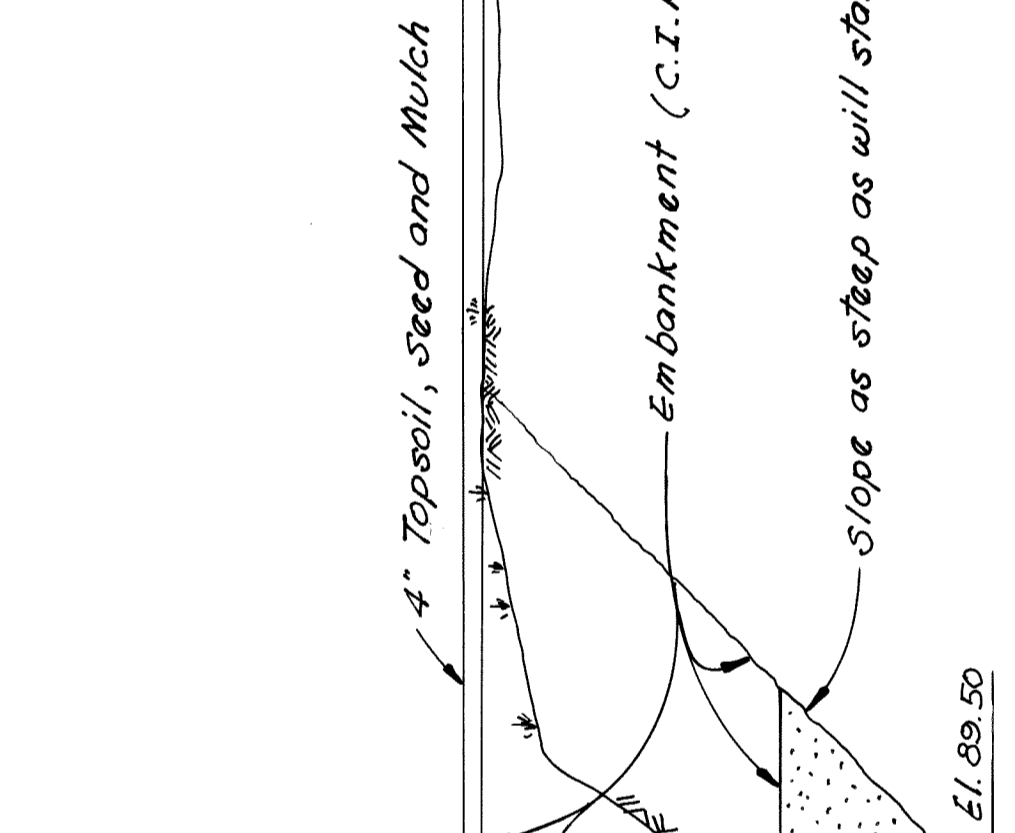
(This section to be used where the culvert is placed within the influence of the proposed roadbed. See sht. no. 2 for influence limits.)

- Notes**
- All earthwork operations shall be done in strict accordance with Section 2.08 of the standard specifications.
 - All backfill materials shall be placed using the "Controlled Density Method" under Sec. 2.02.11 of the standard specifications.
 - Unsuitable material is soil which is too soft or spongy to provide a firm bed for the culvert including but not limited to topsoil and any organic material encountered.



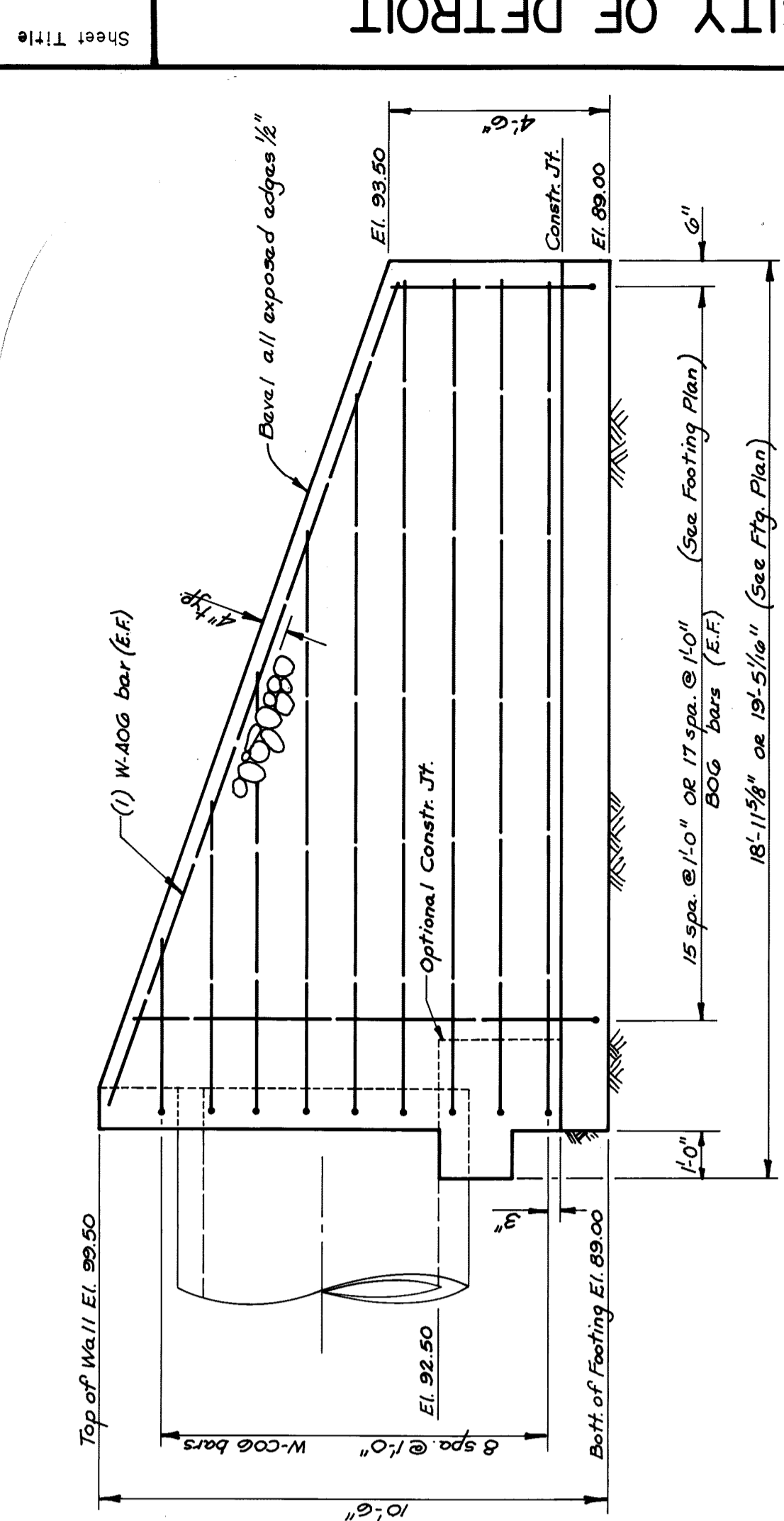
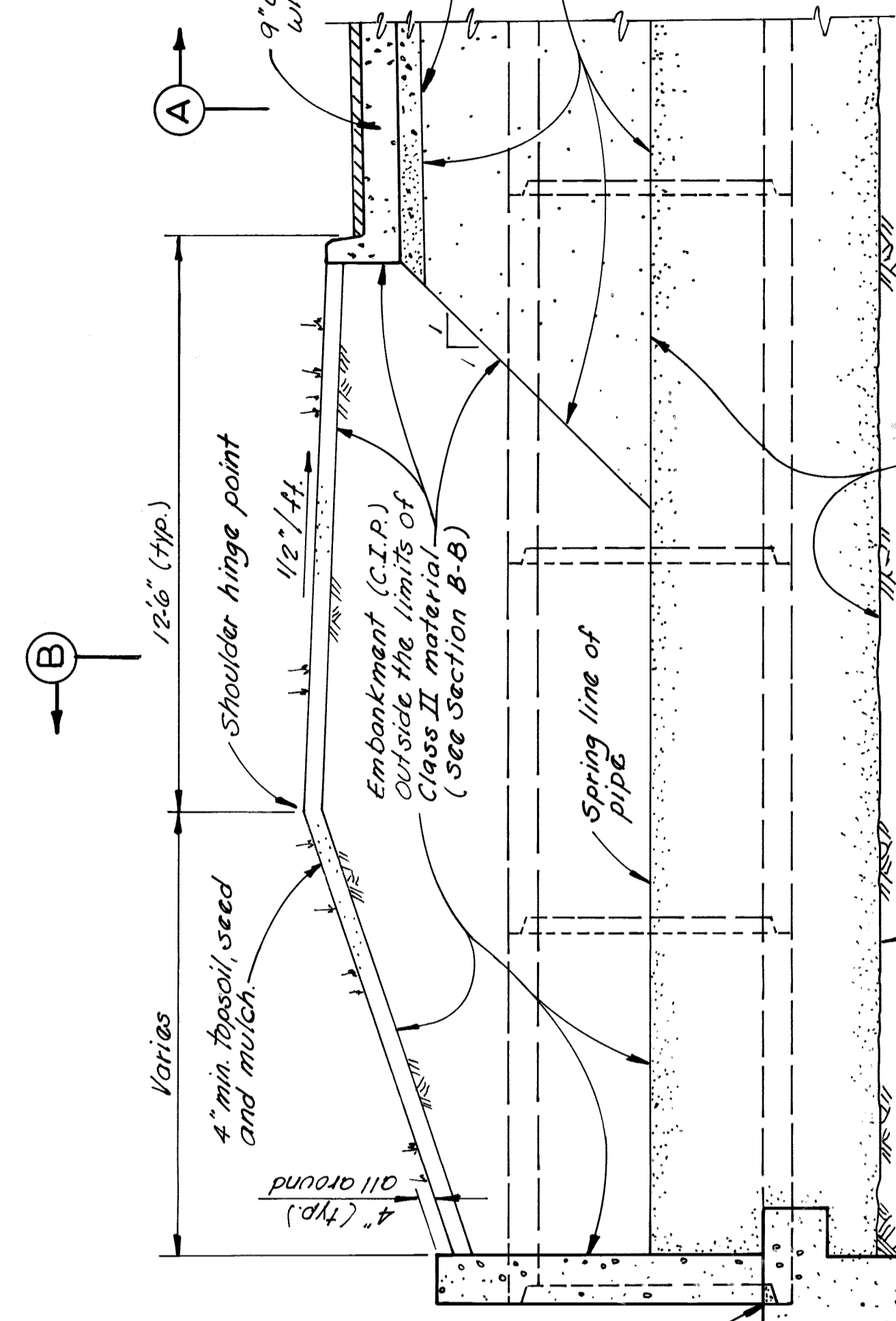
SECTION B-B

(This section to be used where culvert is placed outside the influence of the proposed roadbed. See sht. no. 2 for "Influence of roadbed" limits.)



SECTION C-C

TYPICAL WALL ELEVATION

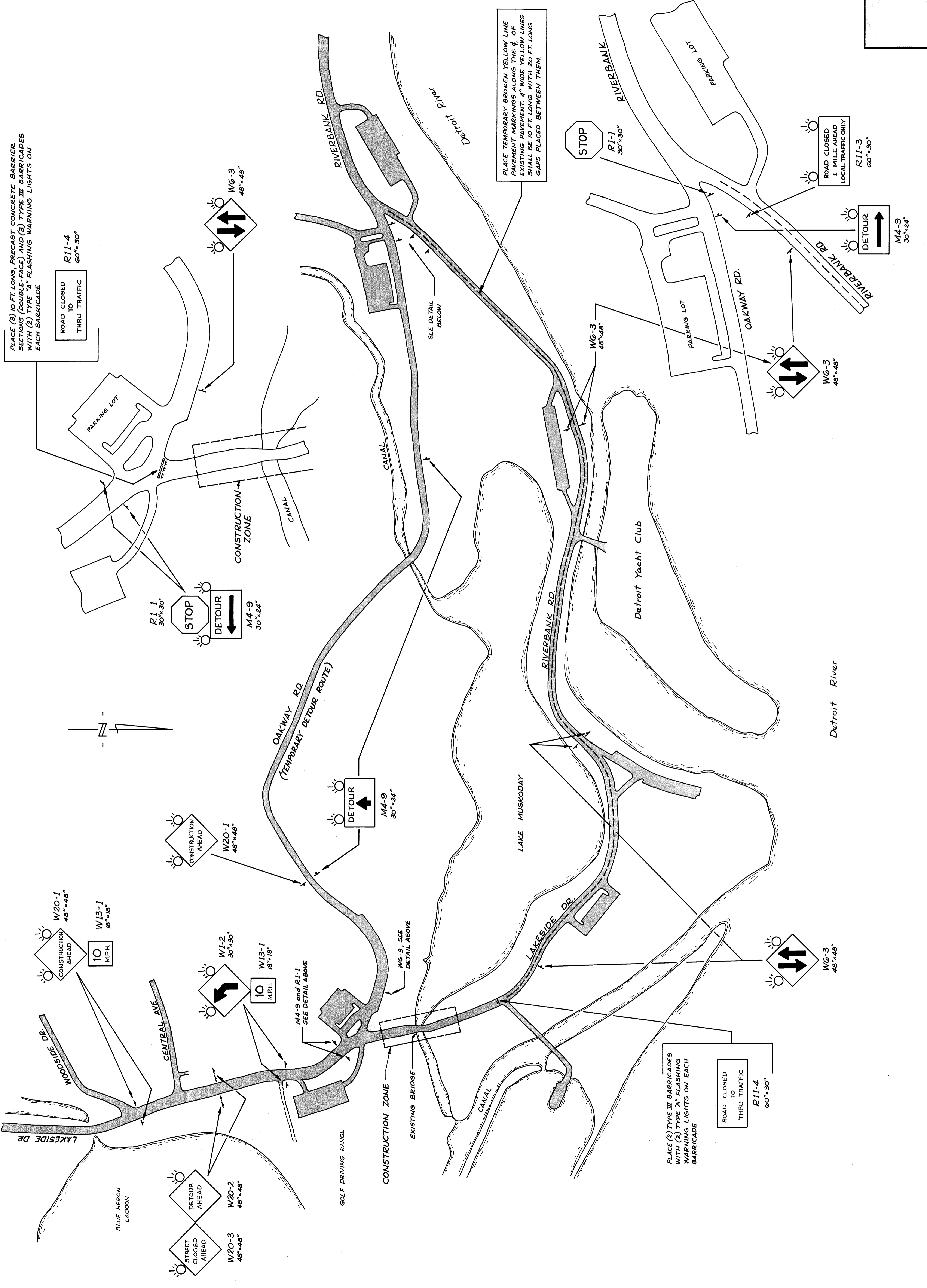


TRAFFIC CONTROL

Project
CITY OF DETROIT
Sheet Title
LAKE SIDE DRIVE
CUVERT

Project
MADISON MADISON
INTERNATIONAL OF MICHIGAN
Engineers, Architects, Planners
1420 Washington Blvd.
Detroit, Michigan 48226

DESIGN BY
K.C.H.
DRAWN BY
K.C.H.
CHECKED BY
J.M.P.
DATE
FEB. 1969
PROJECT NO.
8605
SHEET NO.
6

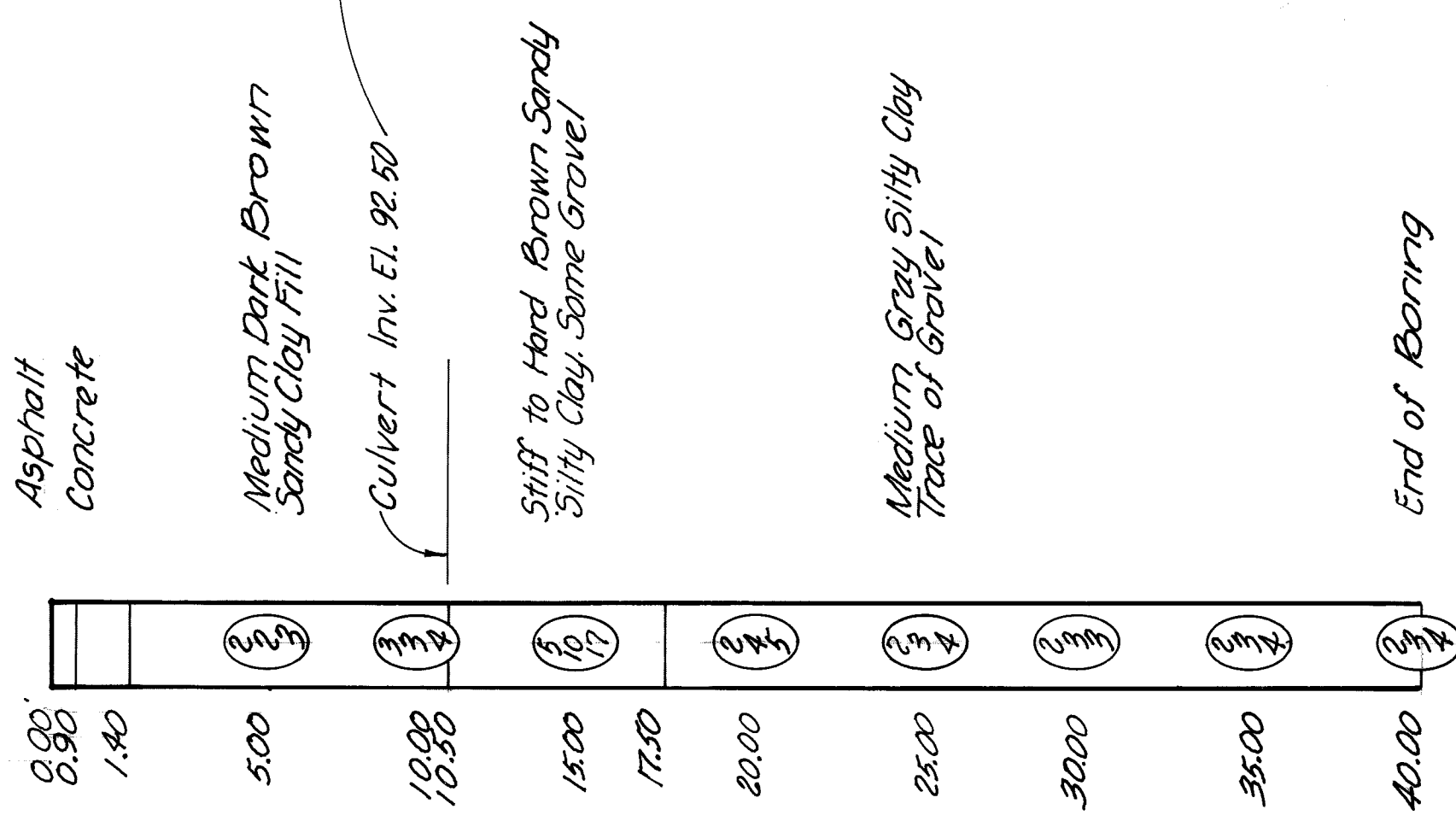


PLACE (3) 10 FT. LONG, PRECAST CONCRETE BARRIER SECTIONS (DOUBLE-FACE) AND (3) TYPE III BARRICADES WITH (2) TYPE 'A' FLASHING WARNING LIGHTS ON EACH BARRICADE

PLACE TEMPORARY BROKEN YELLOW LINE PAVEMENT MARKINGS ALONG THE C. OF EXISTING PAVEMENT. 4" WIDE YELLOW LINES SHALL BE 10 FT. LONG WITH 20 FT. LONG GAPS PLACED BETWEEN THEM.

PLACE (2) TYPE III BARRICADES WITH (2) TYPE 'A' FLASHING WARNING LIGHTS ON EACH BARRICADE
ROAD CLOSED TO THRU TRAFFIC
R11-4
60" x 30"

TEST HOLE NO. 3

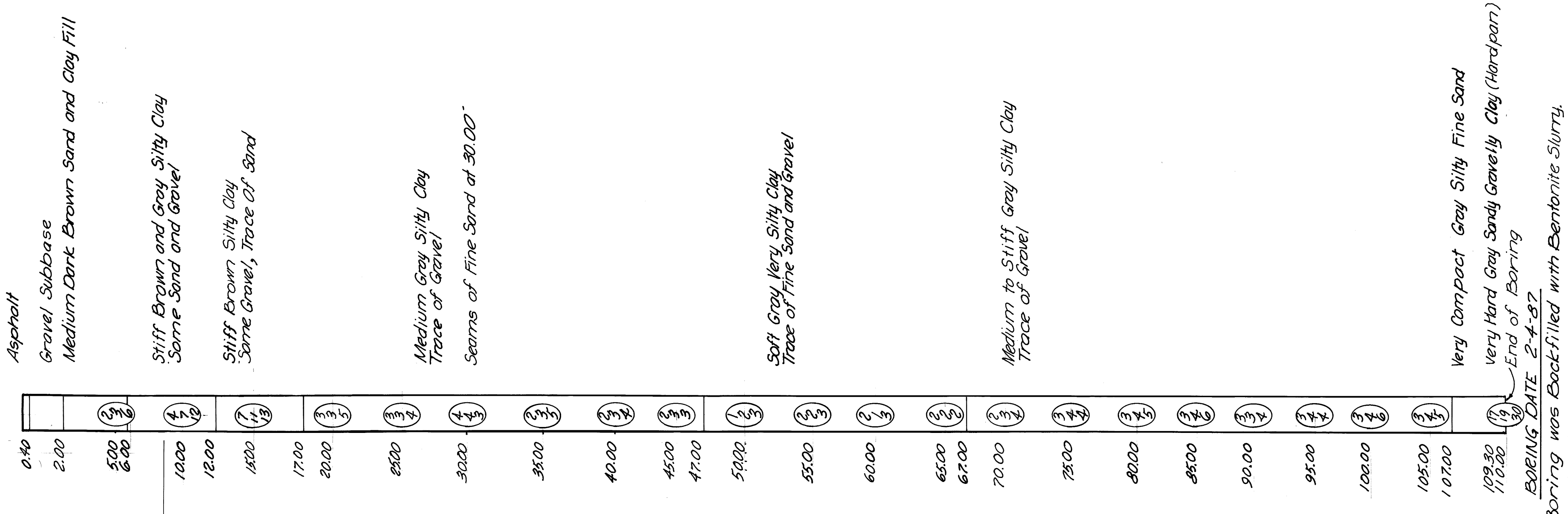


BOREING DATE 2-3-87
Boring Dry at Completion.
Backfilled with the Excavated Material.

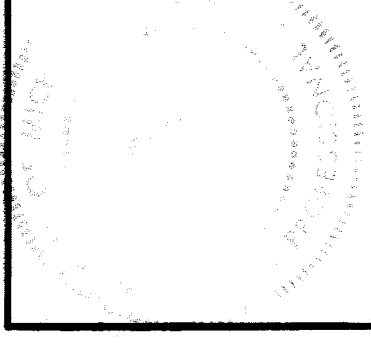
Notes:
 ① 1st 6"
 ② 2nd 6"
 ③ 3rd 6"

1. Numbers in Circle Denotes Number of Blows Required to Drive a 2.00" O.D. x 1.50" I.D. Split Spoon Sampler 3 successive 6" increments Using a 140# Hammer falling 30"
2. The Soil Boring Logs Represent Point Information. Presentation of This Information in No Way Implies That Subsurface Conditions are the Same at Locations Other than the Exact Location of the Boring.

TEST HOLE NO. 4



Boring was Backfilled with Bentonite Slurry.



DESIGN BY	
DRAWN BY	C.W.
CHECKED BY	S.O.
DATE	
PROJECT NO.	8605
SHEET NO.	SB-1

MADISON MADISON INTERNATIONAL OF MICHIGAN
 Engineers, Architects, Planners
 1420 Washington Blvd.
 Detroit, Michigan 48226

CITY OF DETROIT
 LAKE SIDE DRIVE
 CULVERT

NO. 3 and 4
 SOIL BORING LOGS