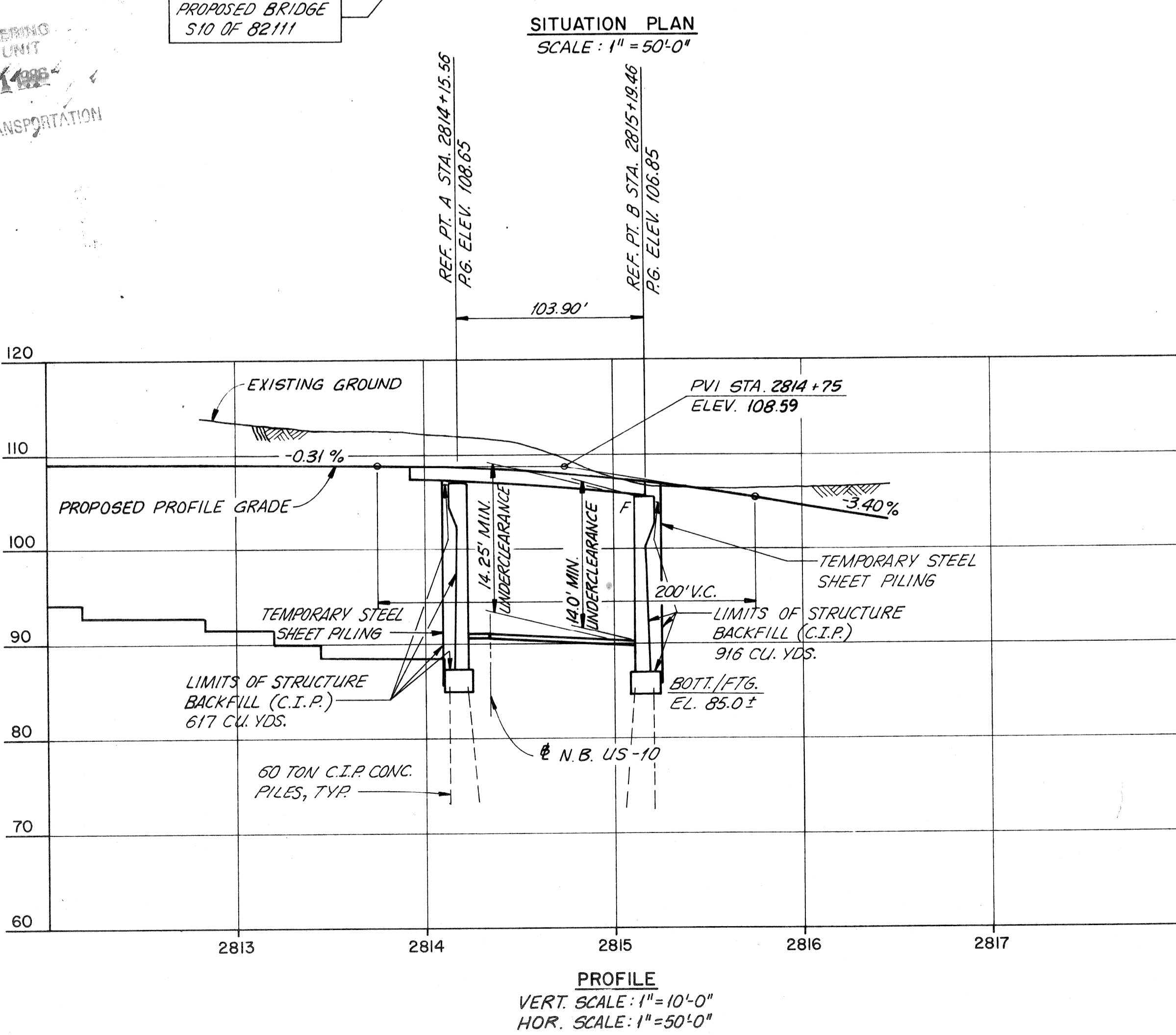
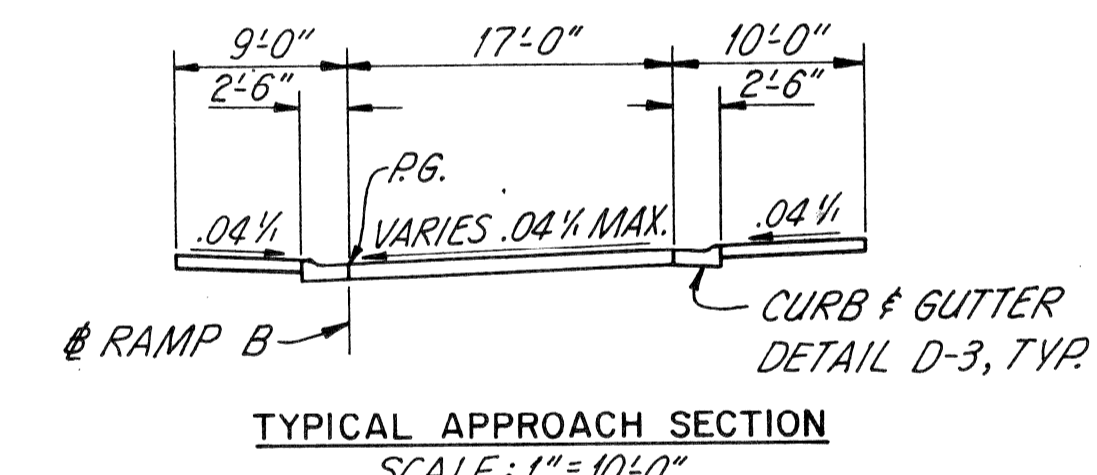
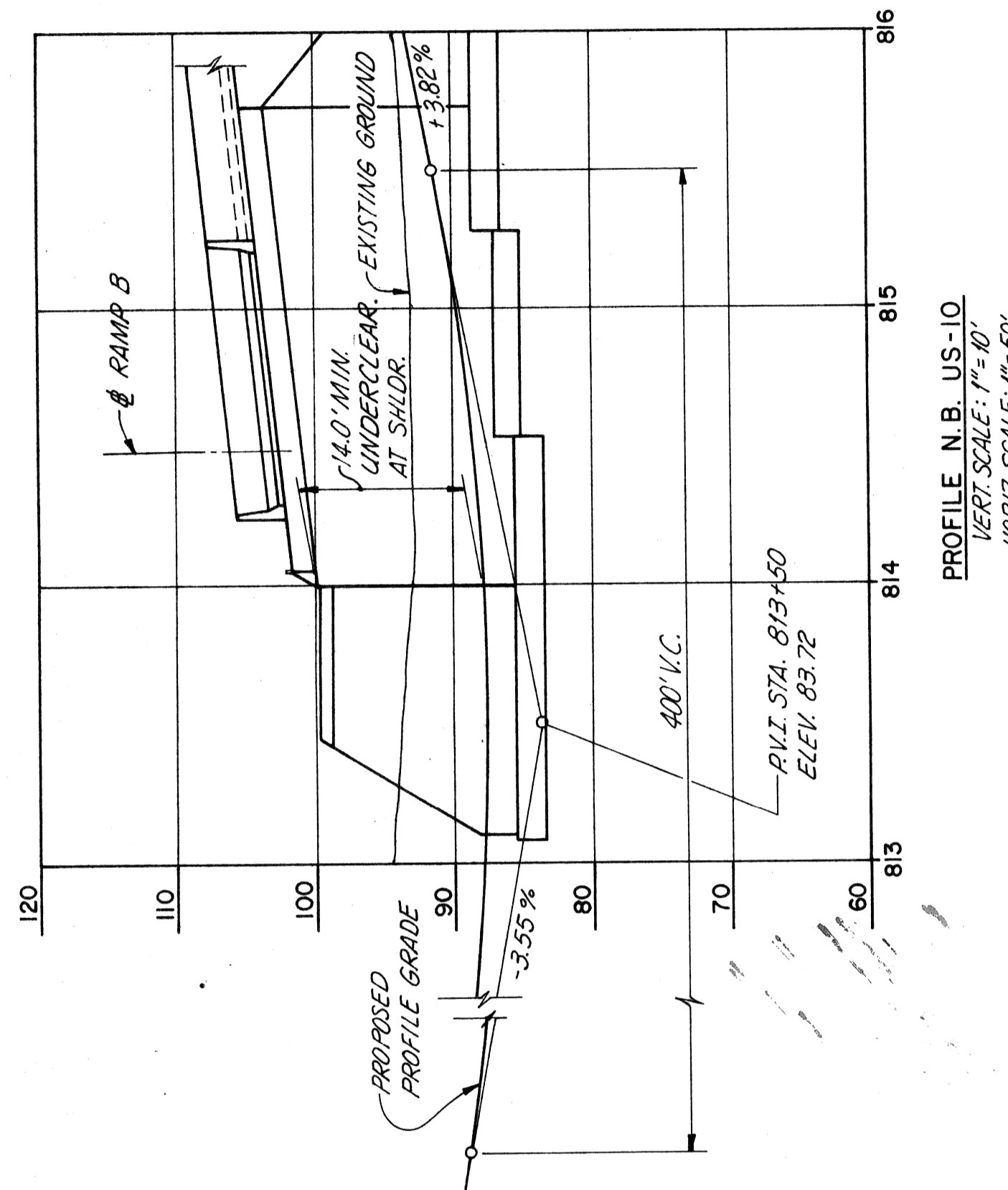
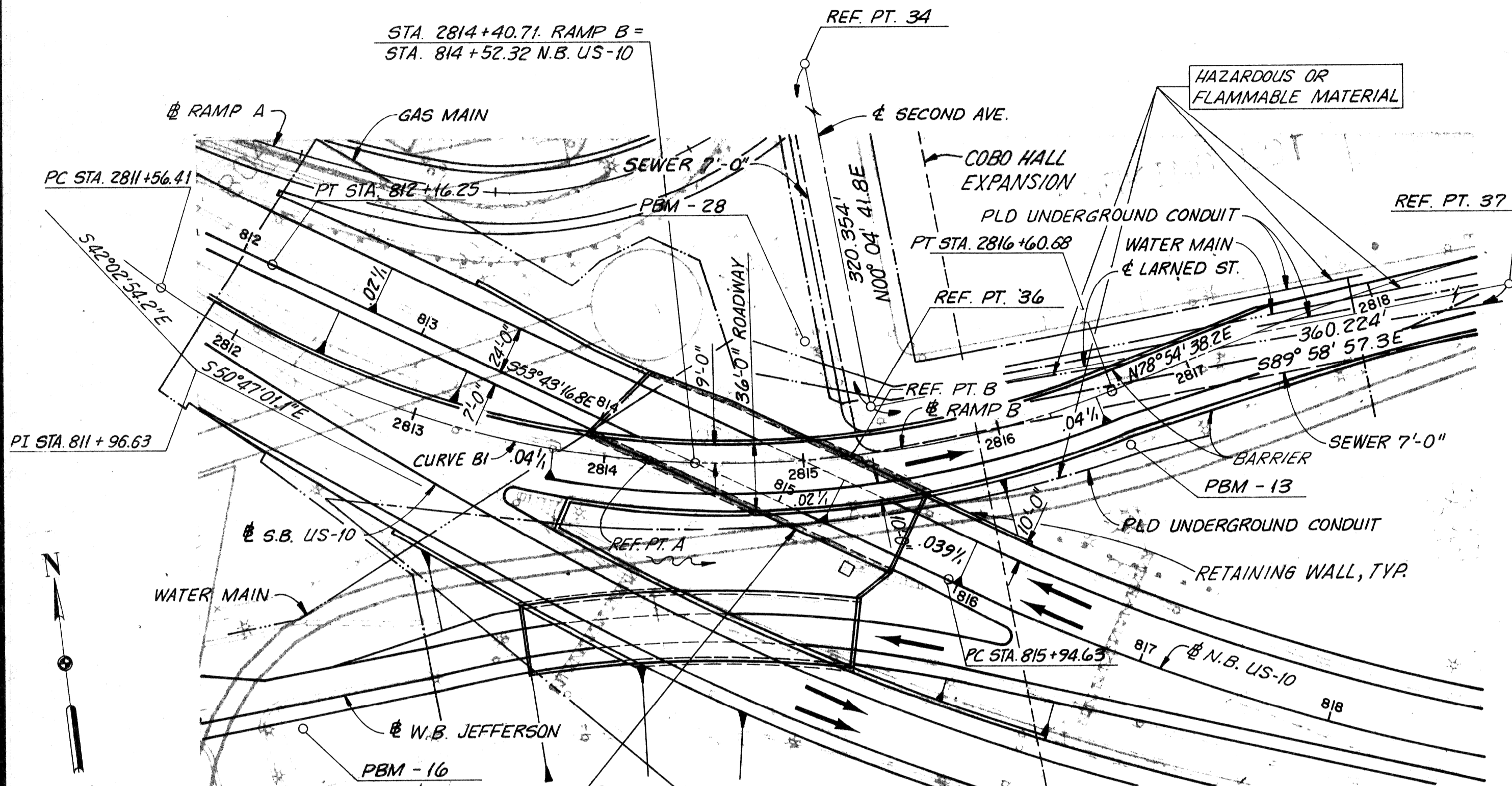


CURVE B1
RAMP B
CURVE DATA
Δ = 55°28'09.3"
D = 11°00'00"
R = 520.87'
T = 273.87'
L = 504.27'
E = 67.61'
P.C. = 2811+56.41
P.I. = 2814+30.28
P.T. = 2816+60.68
S.E. = +.04 1/4

BENCH MARKS*	
PBM-13	ELEV. 109.965
CATS MONUMENT NO. 21 LOCATED AT S. SIDE OF LARNED ST. EXIT RAMP FROM JOHN C. LODGE FREEWAY 125'± E. OF CENTERLINE SECOND AVE.	
PBM-16	ELEV. 110.618
CATS MONUMENT NO. 22 LOCATED IN THE E. MEDIAN ISLAND OF JEFFERSON AVE. AT THIRD ST.	
PBM-28	ELEV. 109.74
ARROW ON HYDRANT LOCATED AT N.W. CORNER OF SECOND AVE. AND LARNED ST.	

UTILITIES	
CITY OF DETROIT	AMERICAN TELEPHONE & TELEGRAPH CO.
PUBLIC LIGHTING DEPT.	10 SOUTH CANAL
9449 GRINNELL	CHICAGO, ILLINOIS 60606
DETROIT, MICHIGAN 48213	
DETROIT WATER & SEWAGE DEPT.	MICHIGAN CONSOLIDATED GAS COMPANY
735 RANDOLPH ST.	500 GRISWOLD AVENUE
DETROIT, MICHIGAN 48226	DETROIT, MICHIGAN 48226
MICHIGAN BELL TELE. CO.	
1922 CASS AVE.	
DETROIT, MICHIGAN 48226	

* CITY OF DETROIT DATUM (A CONVERSION FACTOR OF 479.755 FT. MAY BE ADDED TO CONVERT TO U.S. NATIONAL GEODETIC SURVEY DATUM.)



NOTES:

- THE WORK COVERED BY THESE PLANS INCLUDES CONSTRUCTION OF THE PROPOSED BRIDGE. ALL OTHER WORK IS INCLUDED IN THE ROAD PLANS THAT ARE A PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
- FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS 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.
- SEE ROAD PLANS FOR COORDINATES, ALIGNMENT AND UTILITY DETAILS.
- ALL BRIDGE WORK SHOWN IS WITHIN LIMITS OF R.O.W.

ESTIMATED TRAFFIC
YEAR 2005
RAMP B AOT = 14,300

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

GENERAL PLAN OF SITE

PRELIMINARY PLAN A

US-10 N.B. UNDER RAMP B IN DETROIT

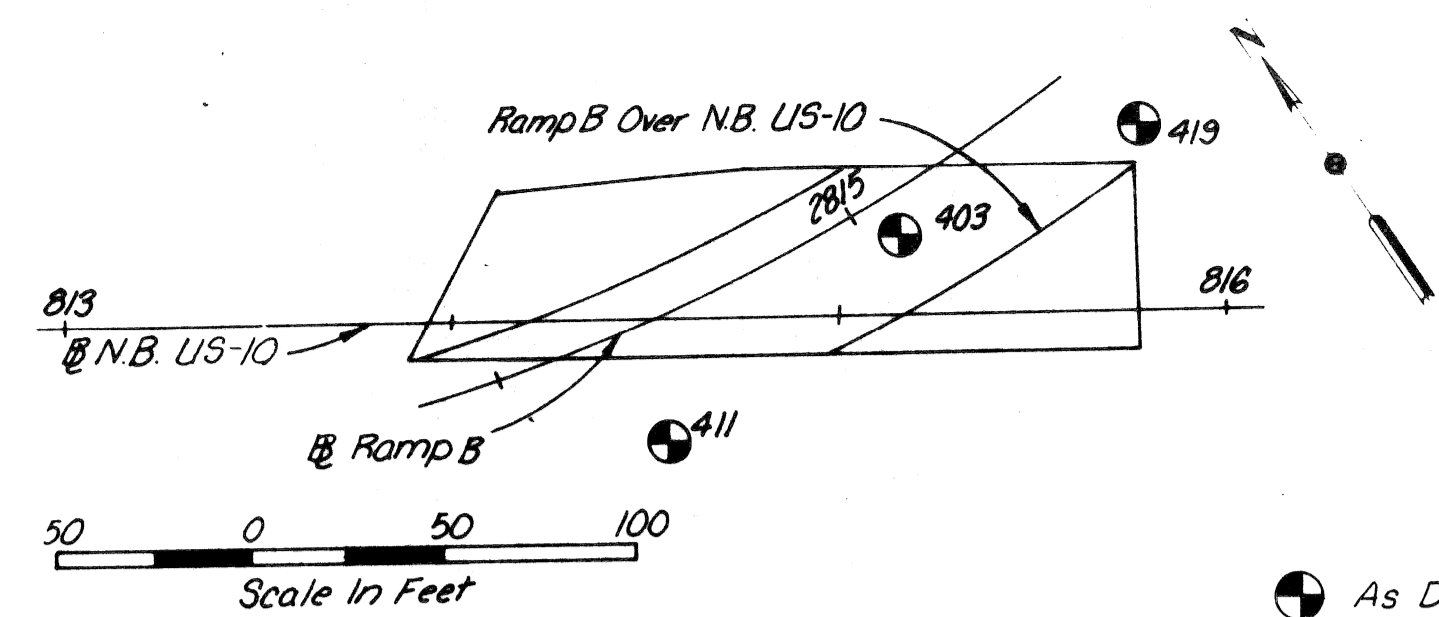
APPROVED: *[Signature]*
DESIGN SUPERVISING ENGINEER

SQUAD BOSS	SP	6-86
DRAWN BY	BJT	6-86
CHECKED BY	SP	6-86
SHEET 1 OF 4		

SIO of 82111

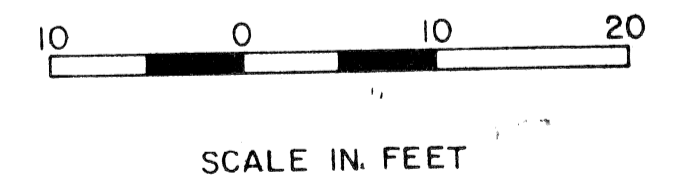
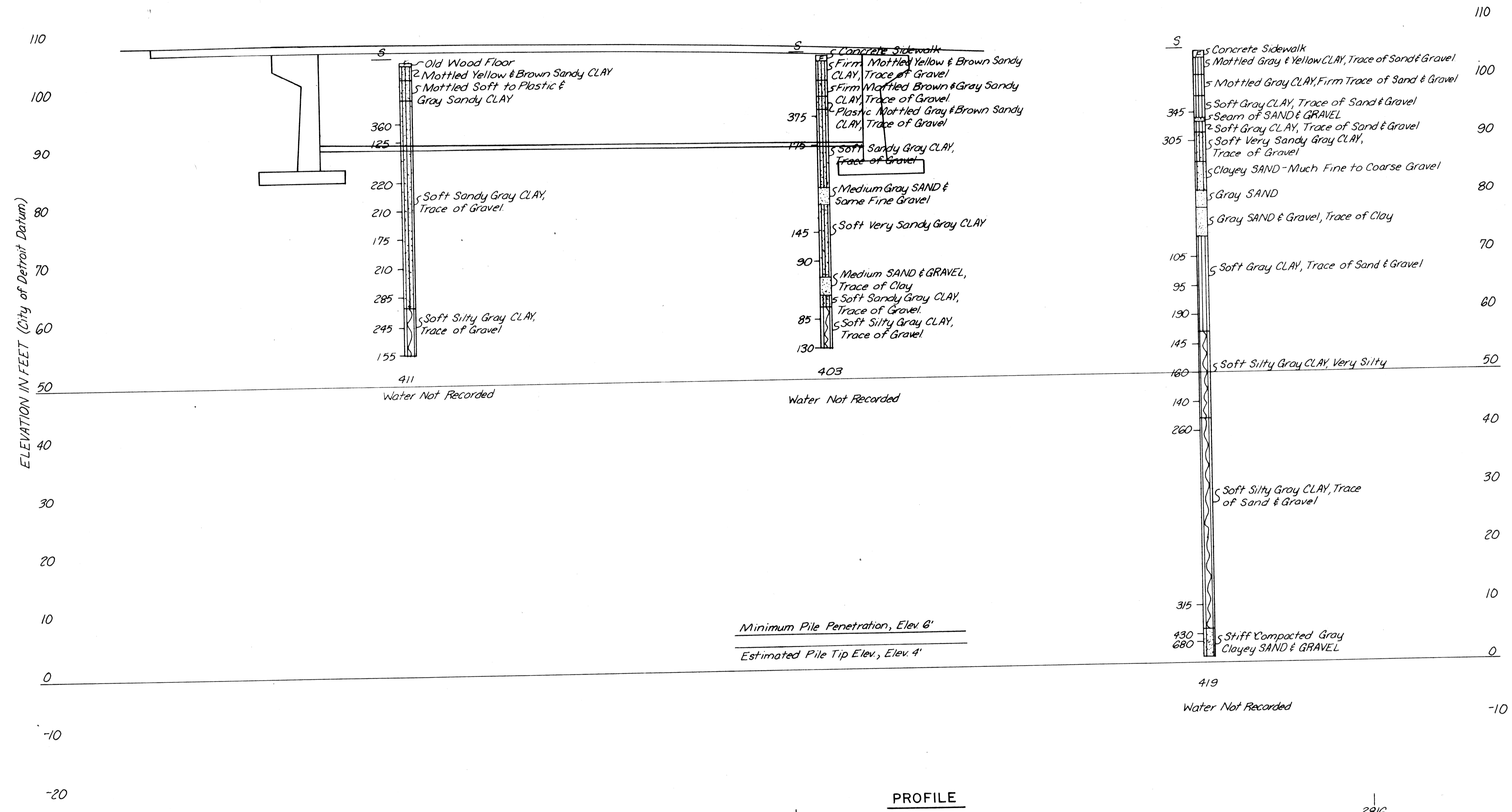
REVISIONS			
NO.	DESCRIPTION	DATE	BY

9736-21-01



LEGEND
 ● As Drilled Boring Location

BORING LOCATION SKETCH

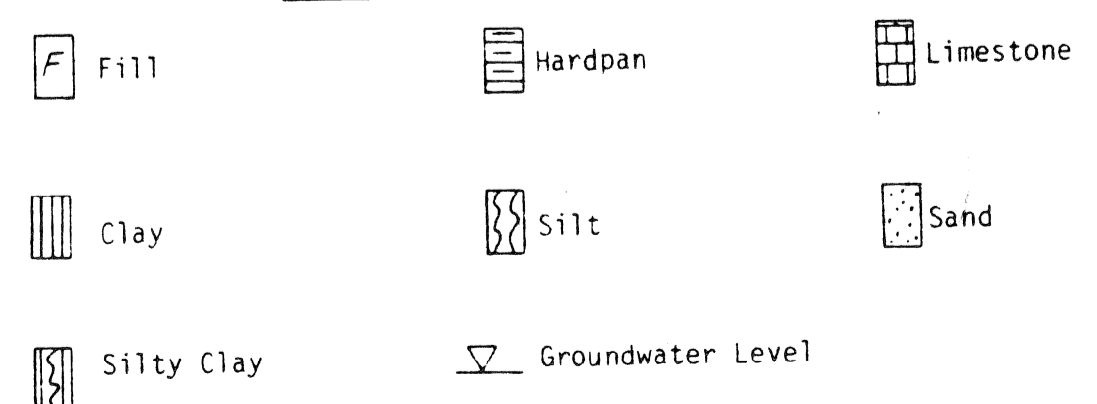


PROFILE

SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND



FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "House" method.
 W = Natural moisture content in percent of dry weight
 γ = Natural density in pounds per cubic foot
 γ_d = Dry density in pounds per cubic foot
 q_u = Unconfined compression in tons per square foot
 N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE: Subsurface information shown on this drawing was obtained solely for use in establishing design controls for the project. The accuracy of this information is not guaranteed and it is not to be construed as part of the plans governing the construction of this project.

NOTE
 Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

MICHIGAN DEPARTMENT OF TRANSPORTATION

**PRELIMINARY PLAN A
 US-10 N.B. UNDER RAMP B
 IN DETROIT**

SOIL BORING DATA

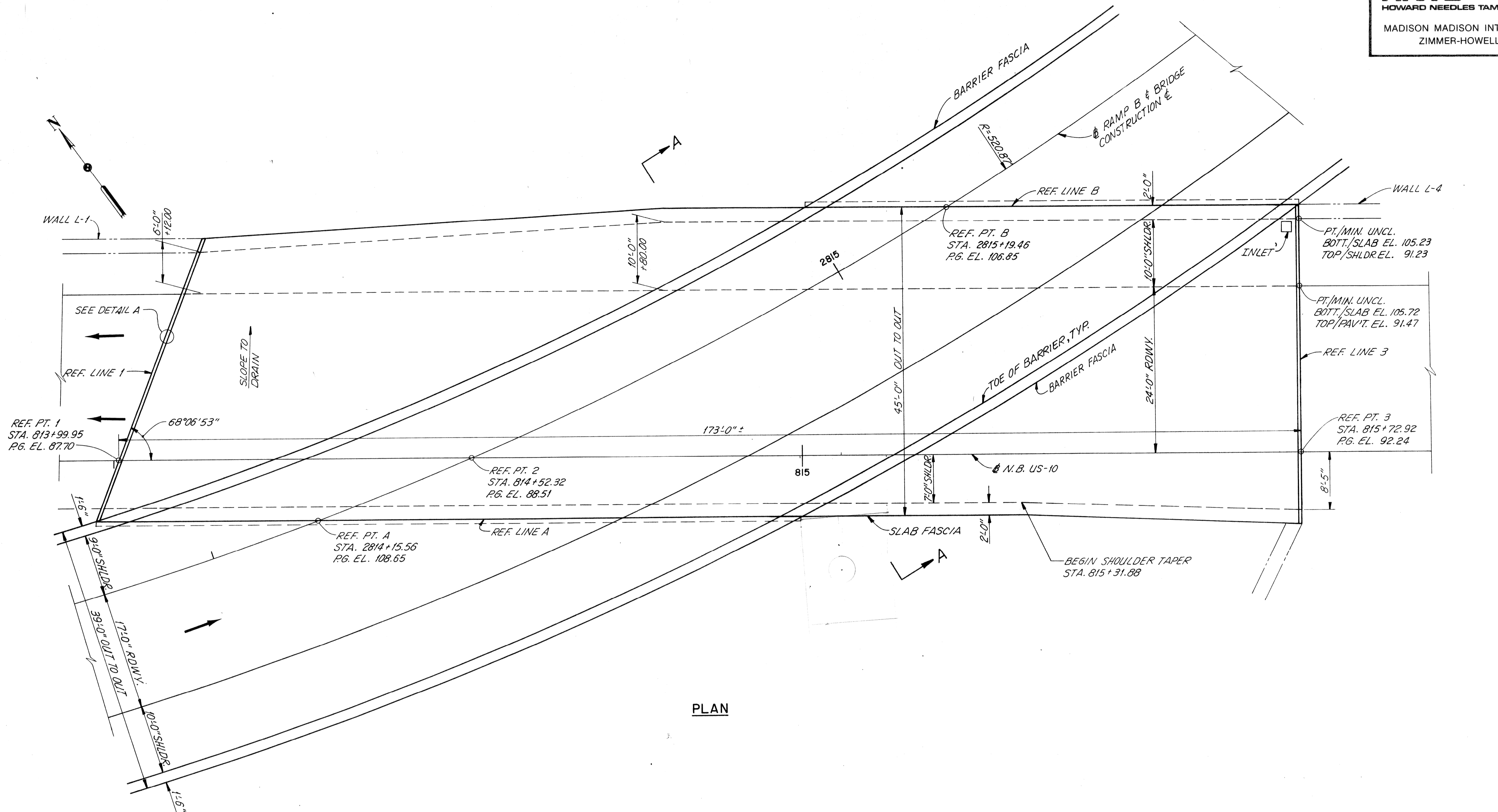
REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	DRAWN BY	TRACED BY	CHECKED BY
CGL	6-86	6-86	6-86
6-86	6-86	6-86	6-86
6-86	6-86	6-86	6-86

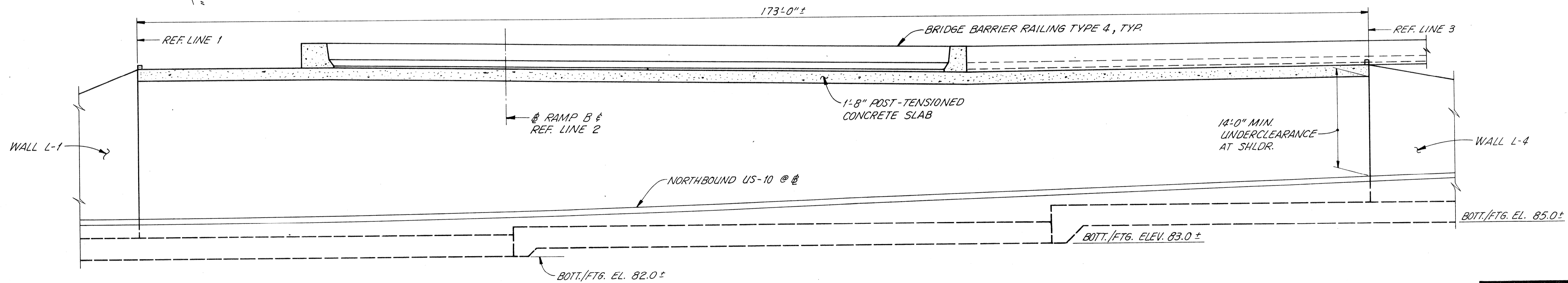
SHEET 2 OF 4

SIO of 82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



PLAN



LONGITUDINAL SECTION
 ALONG N.B. NORTHBOUND US-10

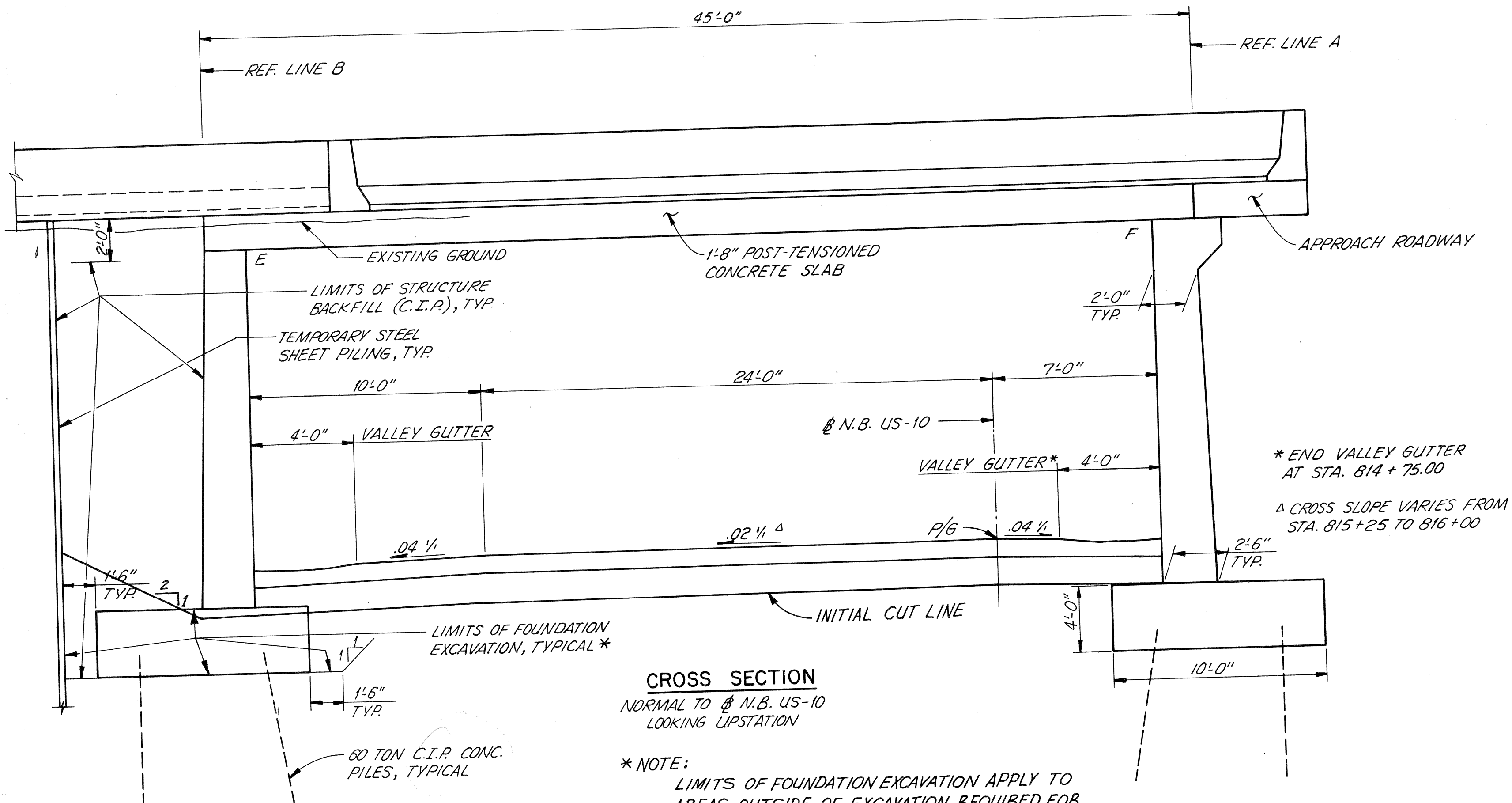
REVISIONS			
NO.	DESCRIPTION	DATE	BY

GENERAL PLAN OF STRUCTURE
PRELIMINARY PLAN A
US-10 N.B. UNDER RAMP B
IN DETROIT

APPROVED: *Armand C. Chick* 7/31/86
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	SP	6-86
DRAWN BY	BJT	6-86
CHECKED BY	SP	6-86
SHEET 3 OF 4		

SIO of 82111



CROSS SECTION
 NORMAL TO ∇ N.B. US-10
 LOOKING UPSTATION

* NOTE:
 LIMITS OF FOUNDATION EXCAVATION APPLY TO AREAS OUTSIDE OF EXCAVATION REQUIRED FOR BRIDGE REMOVAL. LIMITS OF FOUNDATION EXCAVATION WITHIN AREAS OF BRIDGE REMOVAL EQUAL THE REMOVAL LIMITS.

NOTES:

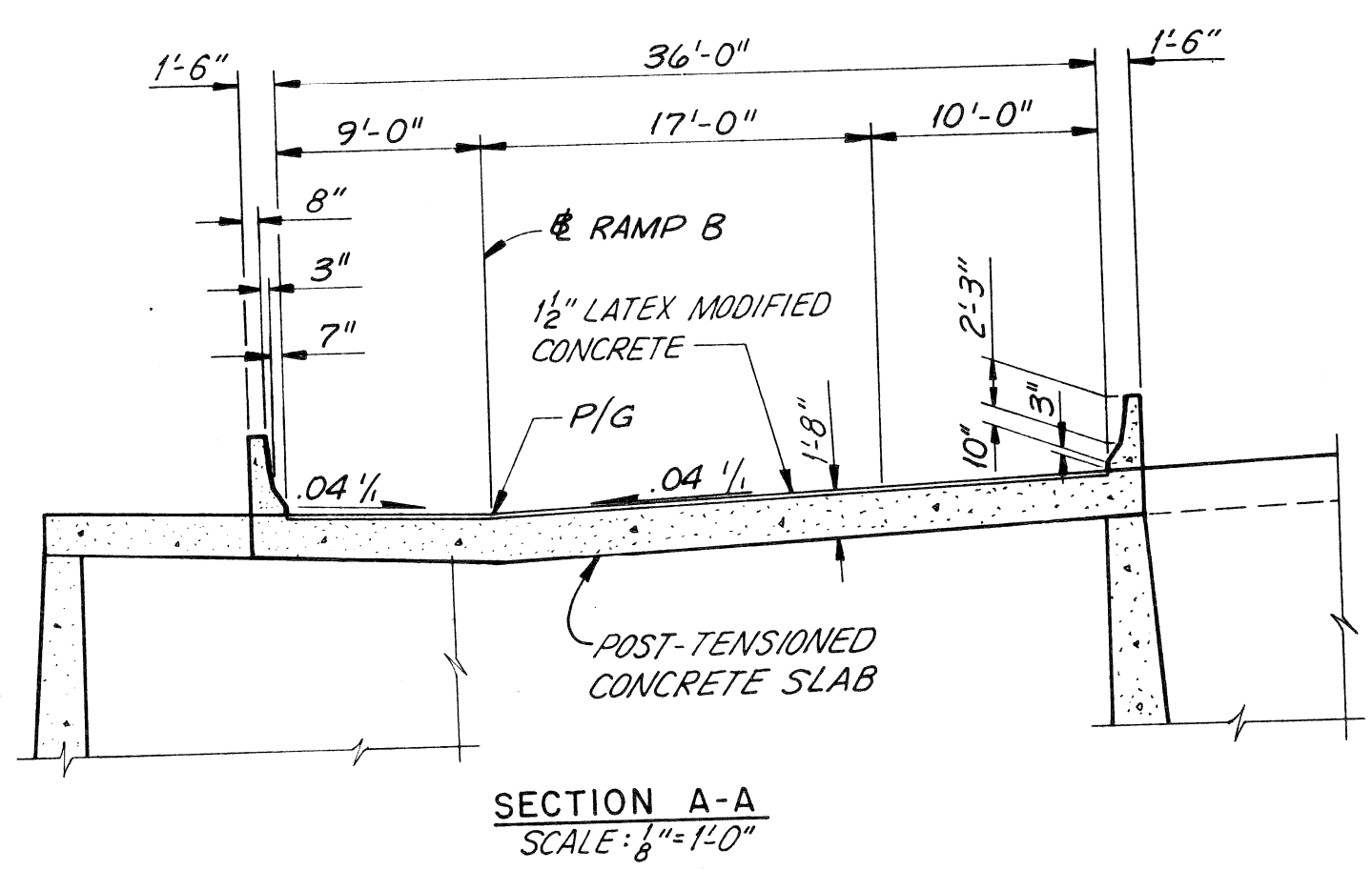
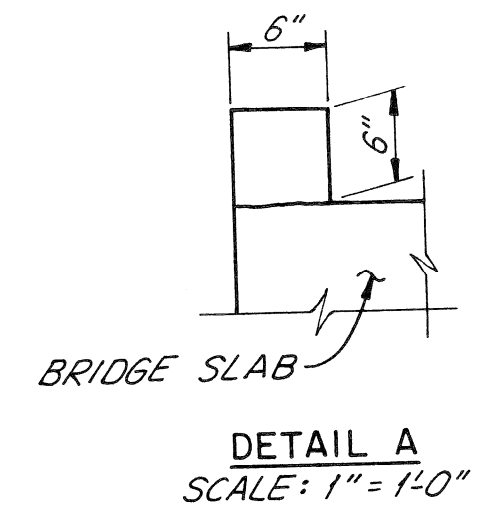
THE DESIGN OF THIS STRUCTURE IS BASED ON MDOT SPECIFICATIONS FOR THE DESIGN OF HIGHWAY BRIDGES, 1958 EDITION, OR CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS25 LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/800 OF SPAN LENGTH. THE WORKING STRESS METHOD OF DESIGN WAS USED FOR THE SLAB OF THIS STRUCTURE AND THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THE ABUTMENTS.

EXCEPT WHERE OTHERWISE INDICATED ON THIS STRUCTURE SHEET OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1984 EDITION.

THE TOP OF ROADWAY SLAB AND TOPS OF CURBS ARE PARALLEL TO THE PROFILE GRADE EXCEPT AS MODIFIED BY SUPER-ELEVATION TRANSITION.

THIS STRUCTURE IS ON A HORIZONTAL CURVE. THE FASCIA LINES, CURB LINES, AND LONGITUDINAL CONSTRUCTION JOINTS ARE PARALLEL TO THE CURVE.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	QUANTITY
UNCLASSIFIED FOUNDATION EXCAVATION	CU. YD.	1,590
STRUCTURE BACKFILL (C.I.P.)	CU. YD.	1,533



GENERAL PLAN OF STRUCTURE
 PRELIMINARY PLAN A

US-10 N.B. UNDER RAMP B
 IN DETROIT

APPROVED: *James D. Clark* 7/2/86
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	SP	6-86
DRAWN BY	BIT	6-86
TRACED BY		
CHECKED BY	SP	6-86
SHEET 4 OF 4		

S10 of 82111

REVISIONS			
NO.	DESCRIPTION	DATE	BY

HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF
in association with
MADISON MADISON INTERNATIONAL OF MICHIGAN
ZIMMER-HOWELL ENGINEERING, LTD.

MICHIGAN DEPARTMENT OF TRANSPORTATION
**U.S. 10—LODGE FREEWAY
AT
COBO HALL EXPANSION**

Prepared By

HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF

CURVE S3
S.B. US-10
CURVE DATA
Δ = 39°12'58.9"
D = 04°30'00"
R = 1273.24'
T = 453.59'
L = 871.48'
E = 78.38'
P.C. = 814 + 14.59
P.I. = 818 + 68.17
P.T. = 822 + 86.06
S.E. = +.038 1/4

CURVE W2
W.B. JEFFERSON
CURVE DATA
Δ = 21°43'55.2"
D = 10°00'00"
R = 572.96'
T = 109.99'
L = 217.32'
E = 10.45'
P.C. = 5813 + 98.20
P.I. = 5815 + 08.18
P.T. = 5816 + 15.52
S.E. = +.04 1/4

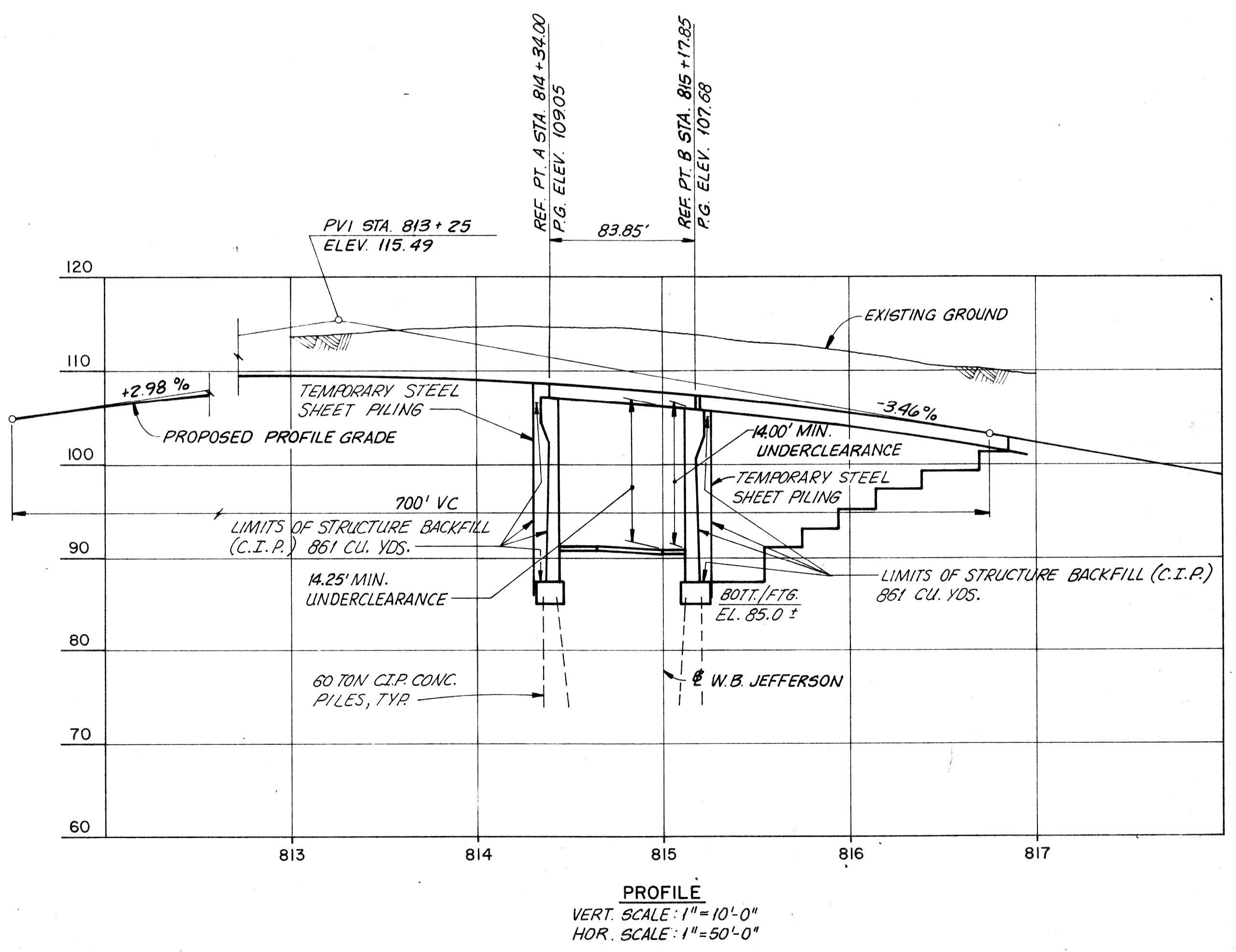
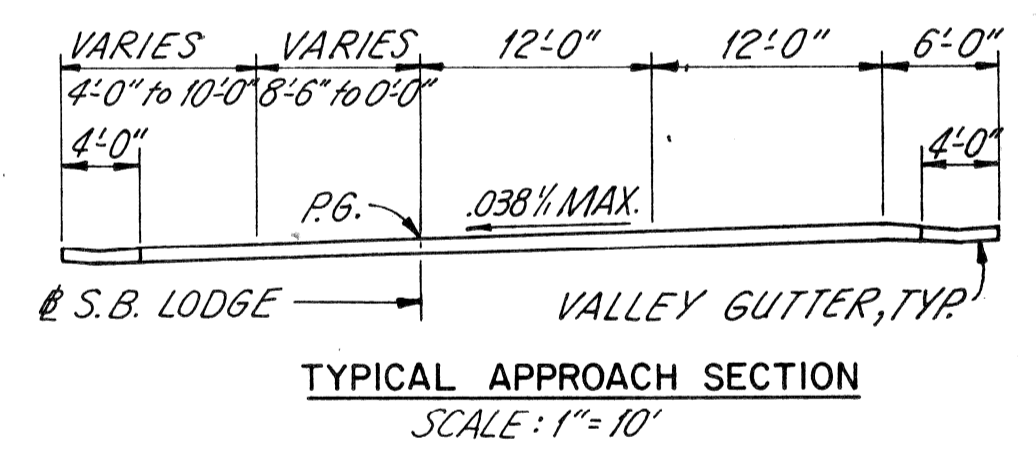
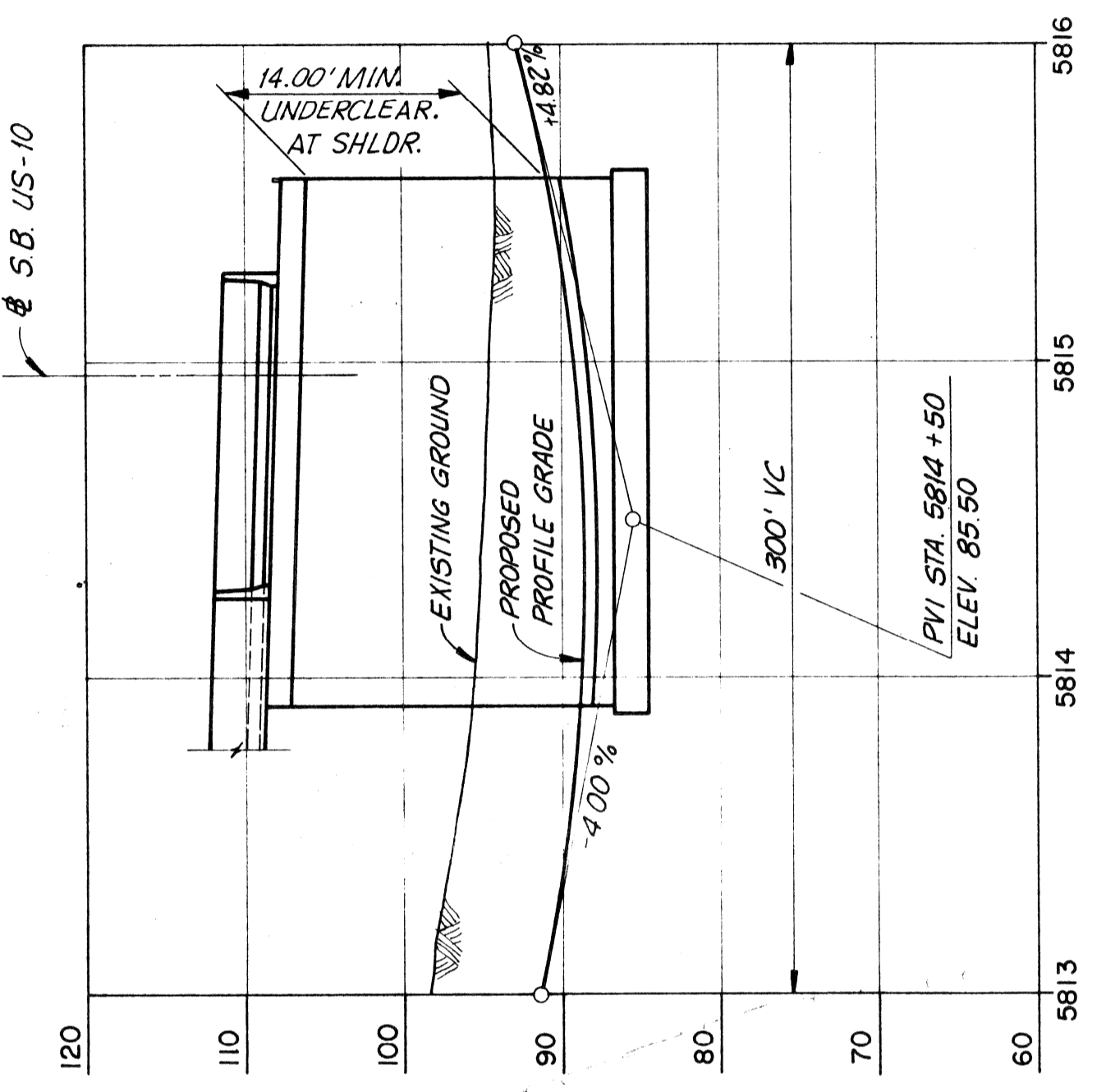
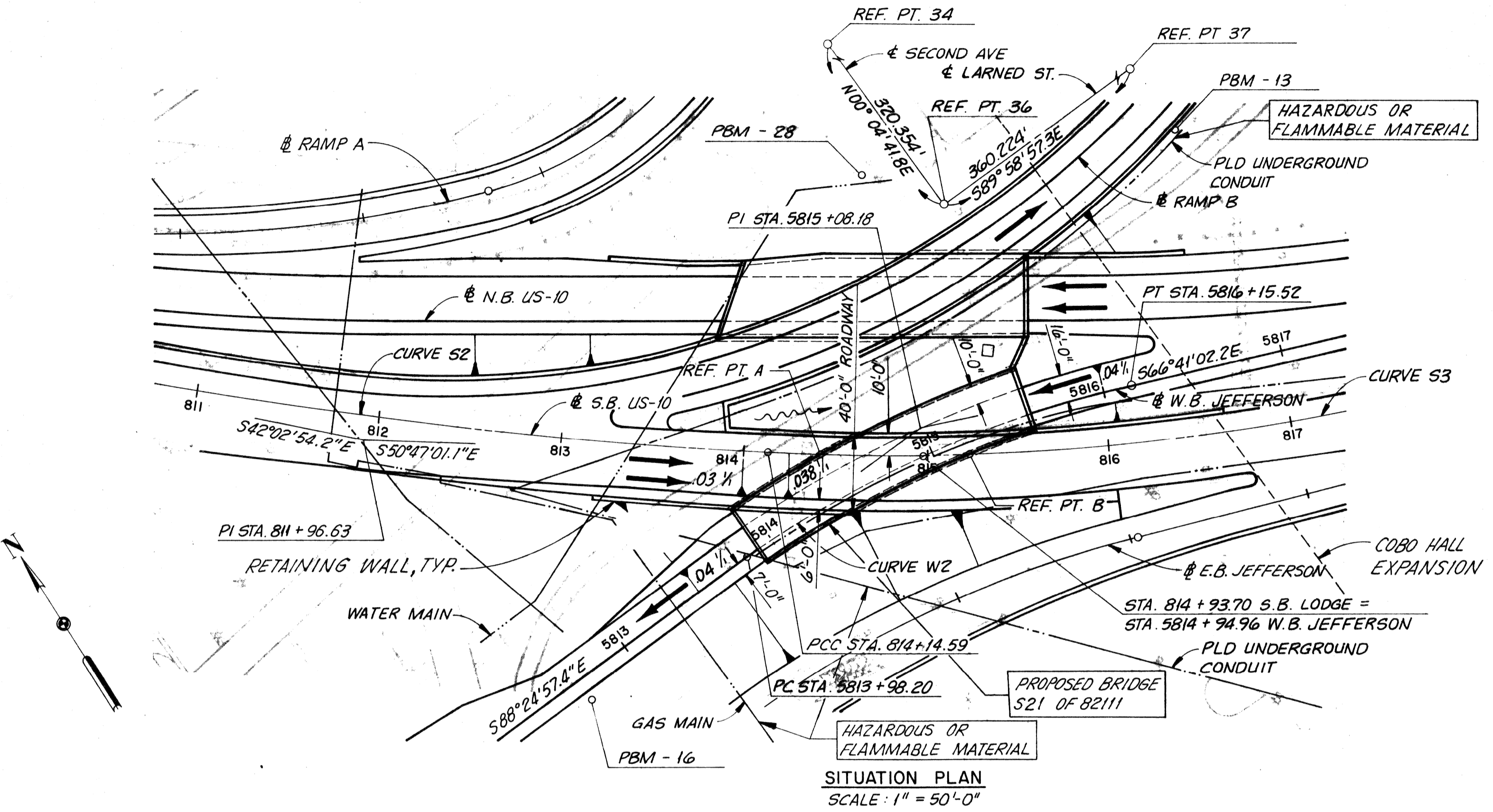
BENCH MARKS *

PBM - 13	ELEV. 109.965
CATS MONUMENT NO. 21 LOCATED AT S. SIDE OF LARNED ST. EXIT RAMP FROM JOHN C. LODGE FREEWAY 125' E. OF CENTERLINE SECOND AVE.	
PBM - 16	ELEV. 110.618
CATS MONUMENT NO. 22 LOCATED IN THE E. MEDIAN ISLAND OF JEFFERSON AVE. AT THIRD ST.	
PBM - 28	ELEV. 109.74
ARROW ON HYDRANT LOCATED AT N.W. CORNER OF SECOND AVE. AND LARNED ST.	

UTILITIES

CITY OF DETROIT PUBLIC LIGHTING DEPT. 9449 GRINNELL DETROIT, MICHIGAN 48213	AMERICAN TELEPHONE & TELEGRAPH CO. 10 SOUTH CANAL CHICAGO, ILLINOIS 60606
DETROIT WATER & SEWAGE DEPT. 735 RANDOLPH ST. DETROIT, MICHIGAN 48227	MICHIGAN CONSOLIDATED GAS COMPANY 500 GRISWOLD AVENUE DETROIT, MICHIGAN 48226
MICHIGAN BELL TELE. CO. 1922 CASS AVE. DETROIT, MICHIGAN 48227	

* CITY OF DETROIT DATUM (A CONVERSION FACTOR OF 479.755 FT. MAY BE ADDED TO CONVERT TO U.S. NATIONAL GEODETIC SURVEY DATUM.)



NOTES:
THE WORK COVERED BY THESE PLANS INCLUDES CONSTRUCTION OF THE PROPOSED BRIDGE; ALL OTHER WORK IS INCLUDED IN THE ROAD PLANS THAT ARE A PART OF THIS CONTRACT.
THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO INSURE THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.
FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM OF 48 HOURS PRIOR TO EXCAVATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL 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.
SEE ROAD PLANS FOR COORDINATES, ALIGNMENT AND UTILITY DETAILS.
ALL BRIDGE WORK SHOWN IS WITHIN LIMITS OF R.O.W.
PLAN DATE: 7-31-86

ESTIMATED TRAFFIC
YEAR 2005
S.B. LODGE ADT = 10,700

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION
GENERAL PLAN OF SITE
PRELIMINARY PLAN A
US-10 S.B. OVER W.B. JEFFERSON IN DETROIT

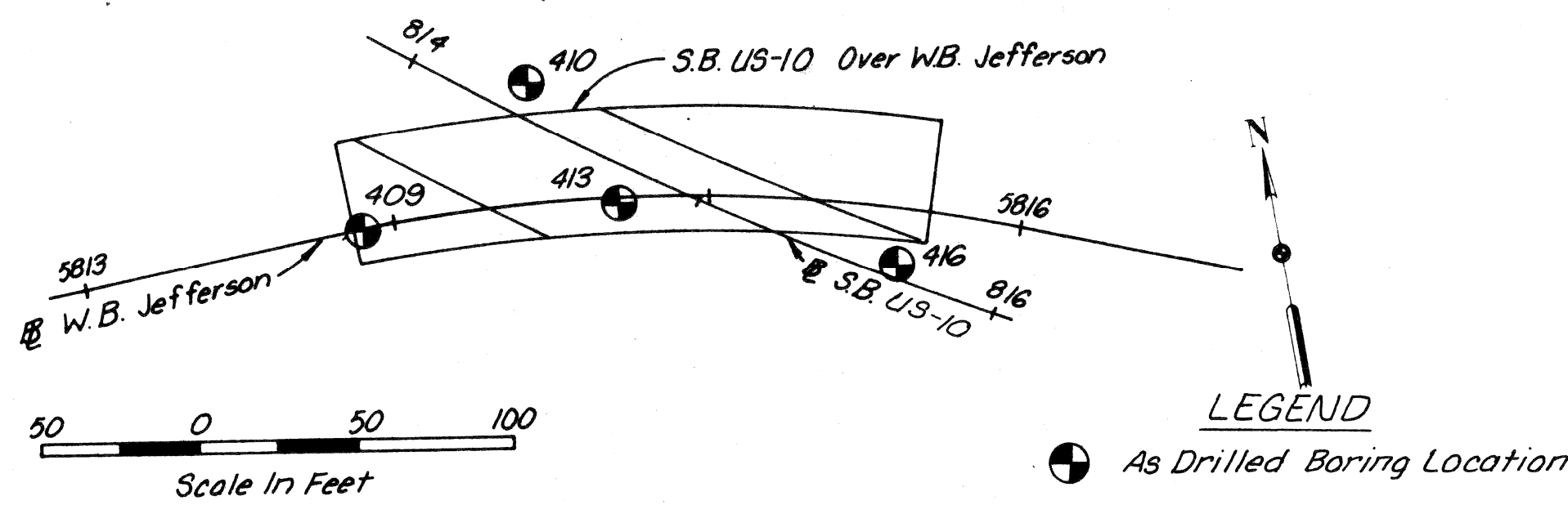
DESIGNED BY	SP	6-86
DRAWN BY	BUT	6-86
CHECKED BY	SP	6-86
APPROVED	[Signature] DESIGN SUPERVISING ENGINEER	

SHEET 1 OF 4
S21 of 82111

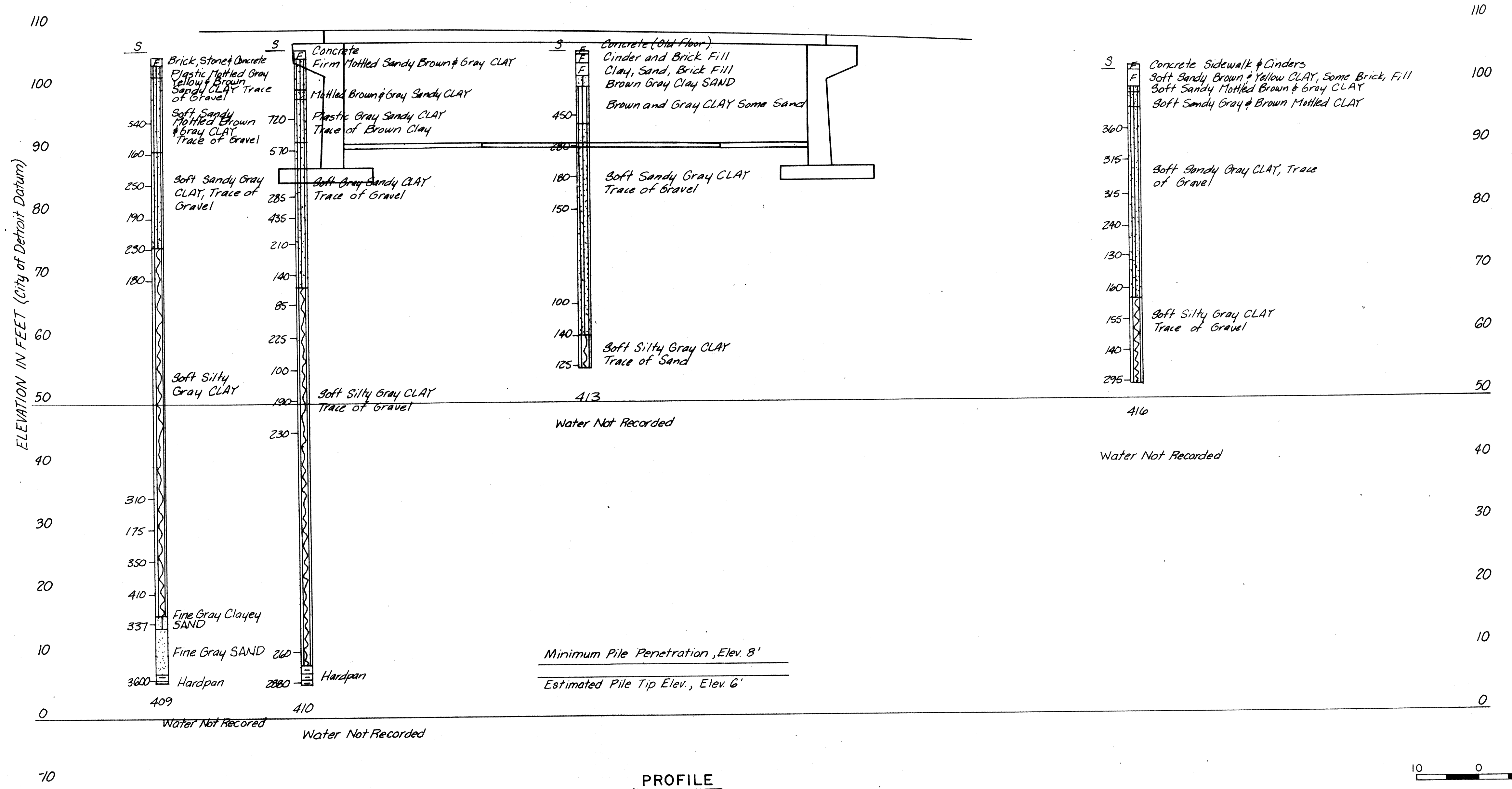
REVISIONS

NO.	DESCRIPTION	DATE	BY

9736-21-01



BORING LOCATION SKETCH



PROFILE

SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "House" method.
 W = Natural moisture content in percent of dry weight
 γ = Natural density in pounds per cubic foot
 γ_d = Dry density in pounds per cubic foot
 q_u = Unconfined compression in tons per square foot
 N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE:
 Subsurface information shown on this drawing was obtained solely for use in establishing design controls for the project. The accuracy of this information is not guaranteed and it is not to be construed as part of the plans governing the construction of this project.

NOTE

Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

MICHIGAN DEPARTMENT OF TRANSPORTATION

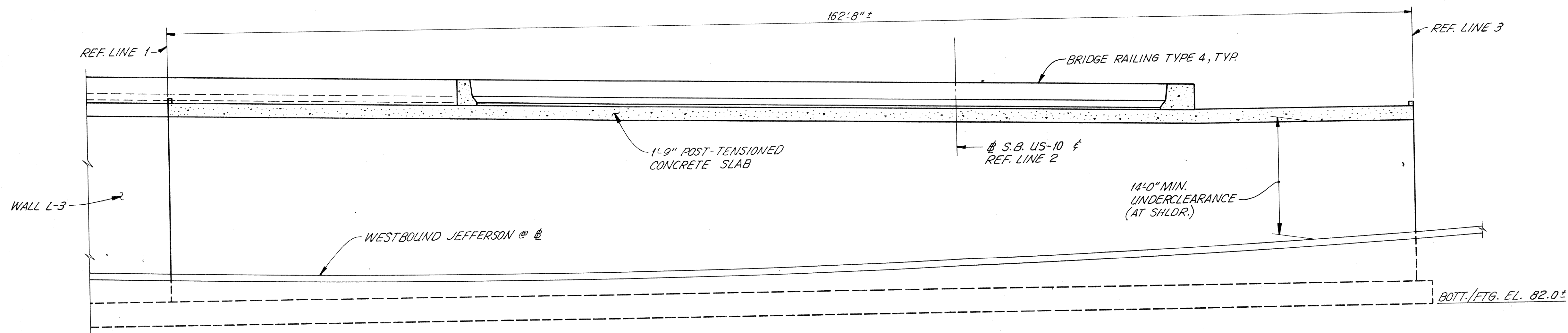
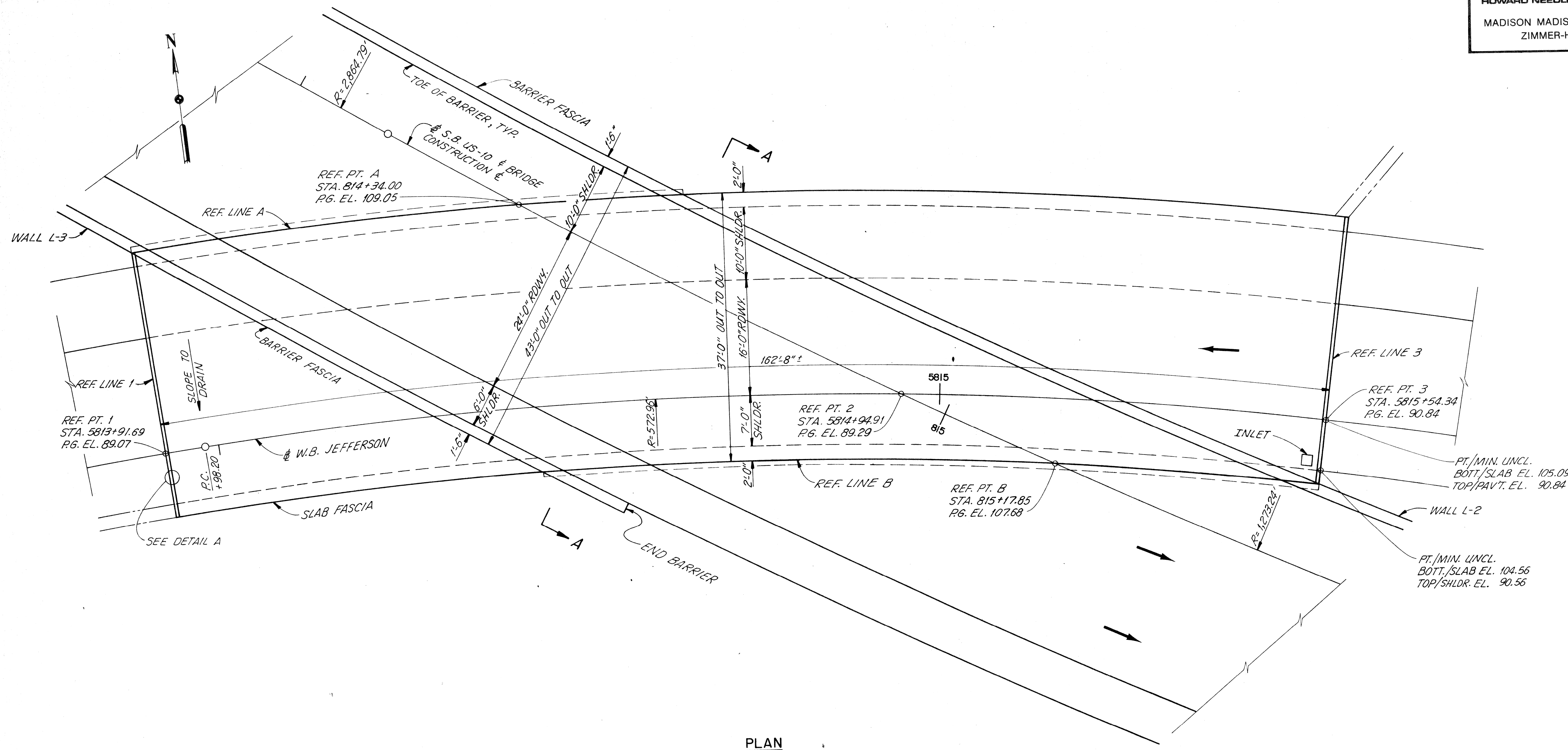
PRELIMINARY PLAN A
US-10 S.B. OVER W.B. JEFFERSON
SOIL BORING DATA
 IN DETROIT

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	
DRAWN BY	CGL 6-86
TRACED BY	SEG 6-86
CHECKED BY	GDT 7-86
SHEET 2 OF 4	

S21 of 82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION

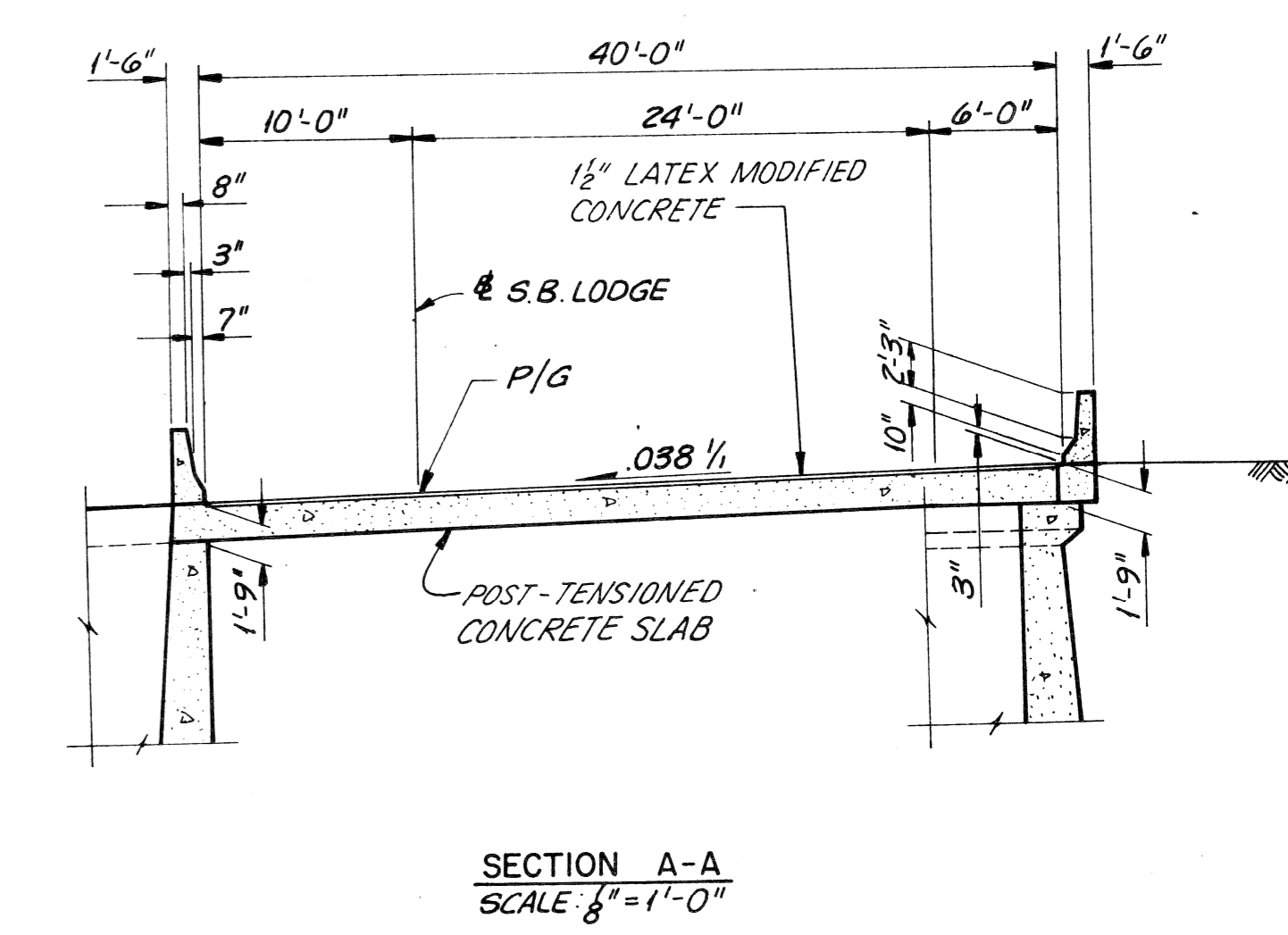
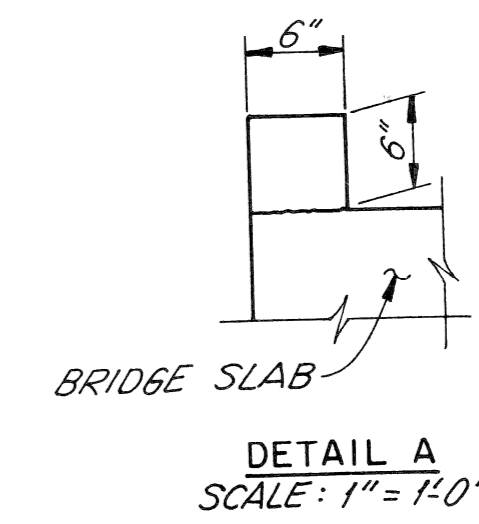
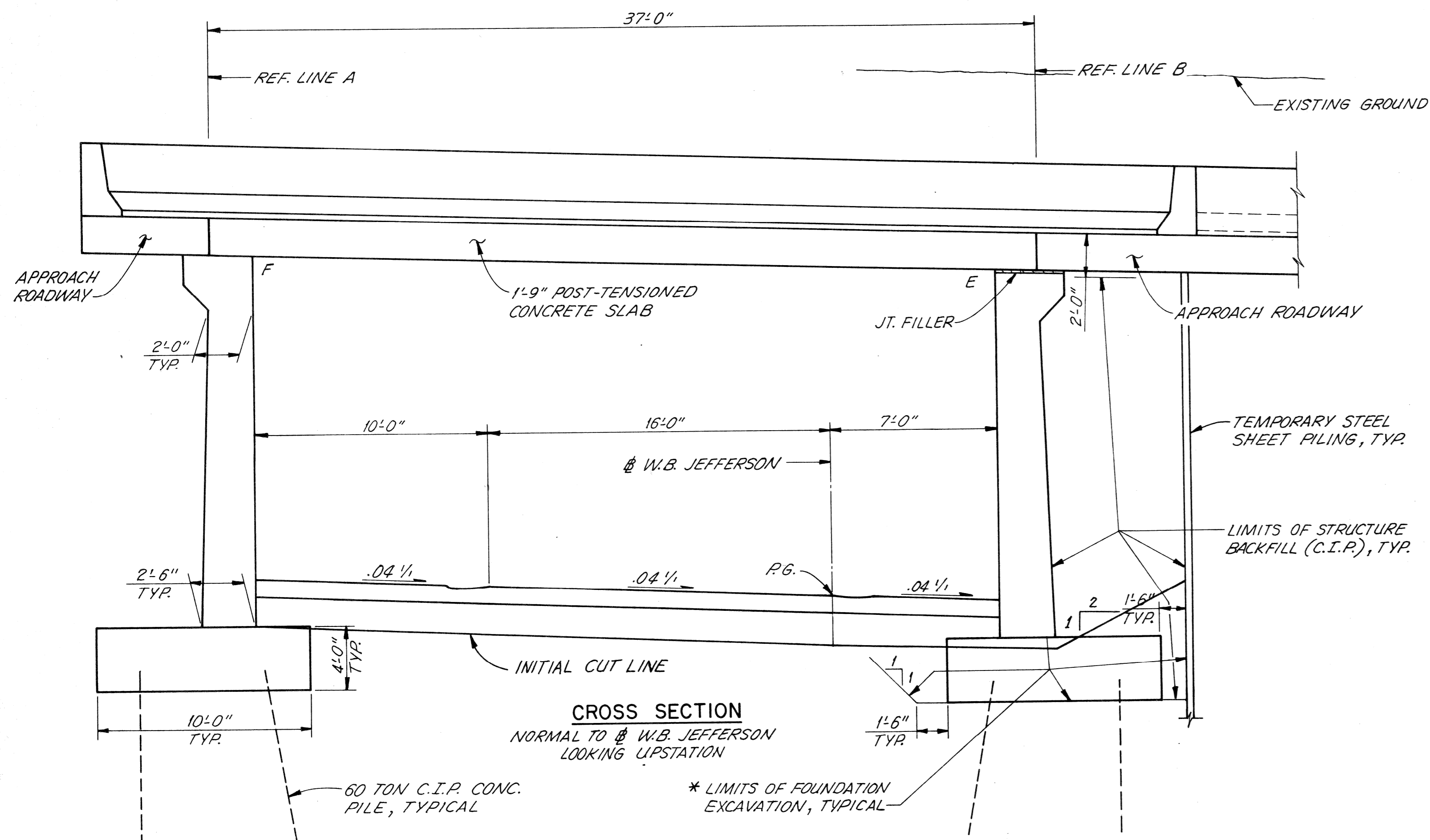
GENERAL PLAN OF STRUCTURE

PRELIMINARY PLAN A
 US-10 S.B. OVER W.B. JEFFERSON
 IN DETROIT

APPROVED: *James D. Chick*
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	SP	6-86
DRAWN BY	BJT	6-86
TRACED BY		
CHECKED BY	SP	6-86

SHEET 3 OF 4
 S21 of 82111



*** NOTE:**
 LIMITS OF FOUNDATION EXCAVATION APPLY TO AREAS OUTSIDE OF EXCAVATION REQUIRED FOR BRIDGE REMOVAL. LIMITS OF FOUNDATION EXCAVATION WITHIN AREAS OF BRIDGE REMOVAL EQUAL THE REMOVAL LIMITS.

NOTES:
 THE DESIGN OF THIS STRUCTURE IS BASED ON MDOT SPECIFICATIONS FOR THE DESIGN OF HIGHWAY BRIDGES, 1958 EDITION, OR CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS25 LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/800 OF SPAN LENGTH. THE WORKING STRESS METHOD OF DESIGN WAS USED FOR THE SLAB OF THIS STRUCTURE AND THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THE ABUTMENTS.
 EXCEPT WHERE OTHERWISE INDICATED ON THIS STRUCTURE SHEET OR IN THE PROPOSAL AND SUPPLEMENTAL SPECIFICATIONS CONTAINED HEREIN, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, 1984 EDITION.
 THE TOP OF ROADWAY SLAB AND TOPS OF CURBS ARE PARALLEL TO THE PROFILE GRADE EXCEPT AS MODIFIED BY SUPER-ELEVATION TRANSITION.
 THIS STRUCTURE IS ON A HORIZONTAL CURVE. THE FASCIA LINES, CURB LINES, AND LONGITUDINAL CONSTRUCTION JOINTS ARE PARALLEL TO THE CURVE.

MISCELLANEOUS QUANTITIES		
ITEM	UNIT	QUANTITY
UNCLASSIFIED FOUNDATION EXCAVATION	CU. YD.	1,447
STRUCTURE BACKFILL (C.I.P.)	CU. YD.	1,722

REVISIONS			
NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF TRANSPORTATION

GENERAL PLAN OF STRUCTURE

PRELIMINARY PLAN A

US-10 S.B. OVER W.B. JEFFERSON IN DETROIT

APPROVED: *James C. Chis* 7/31/86
 DESIGN SUPERVISING ENGINEER

SQUAD BOSS	SP	6-86
DRAWN BY	BIT	6-86
TRACED BY		
CHECKED BY	SP	6-86

SHEET 4 OF 4

S21 of 82111

Prepared By

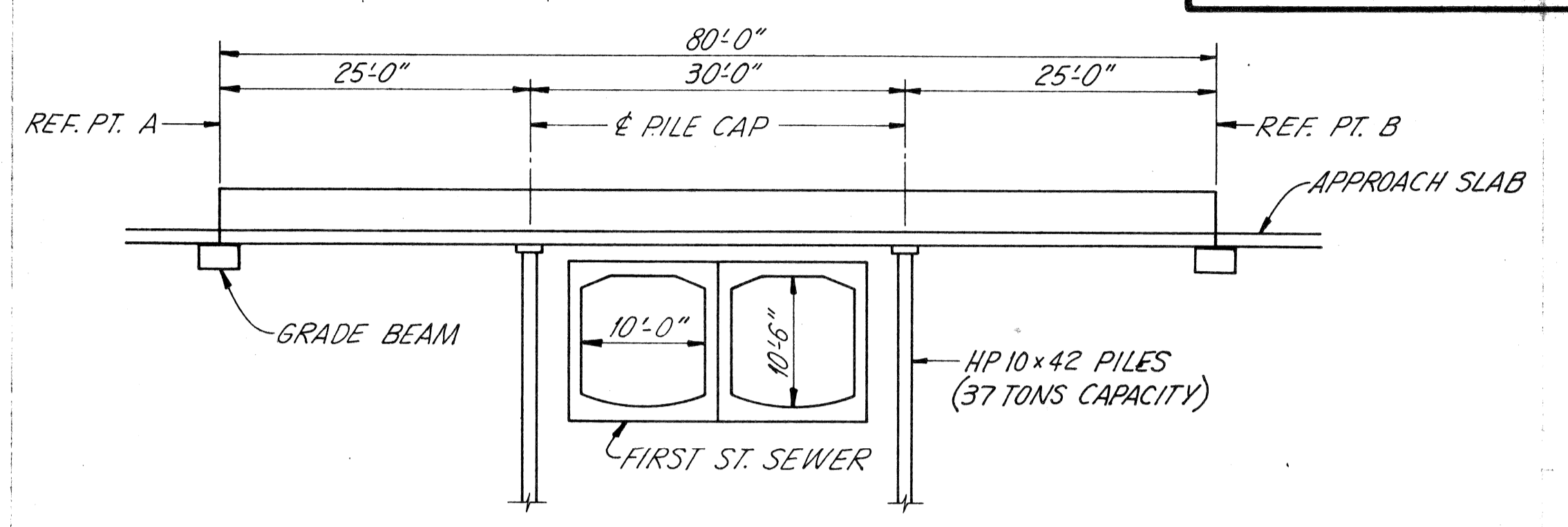
CURVE S3
 S.B. US-10
 CURVE DATA
 Δ = 39°12'58.9"
 D = 04°30'00"
 R = 1,273.24'
 T = 453.59'
 L = 871.48'
 E = 78.38'
 P.C. = 814+14.59
 P.I. = 818+68.17
 P.T. = 822+86.06
 S.E. = +.038 1/4

CURVE N3
 N.B. US-10
 CURVE DATA
 Δ = 36°16'43.2"
 D = 05°00'00"
 R = 1,145.92'
 T = 375.41'
 L = 725.57'
 E = 59.93'
 P.C. = 815+94.63
 P.I. = 819+70.05
 P.T. = 823+20.21
 S.E. = +.039 1/4

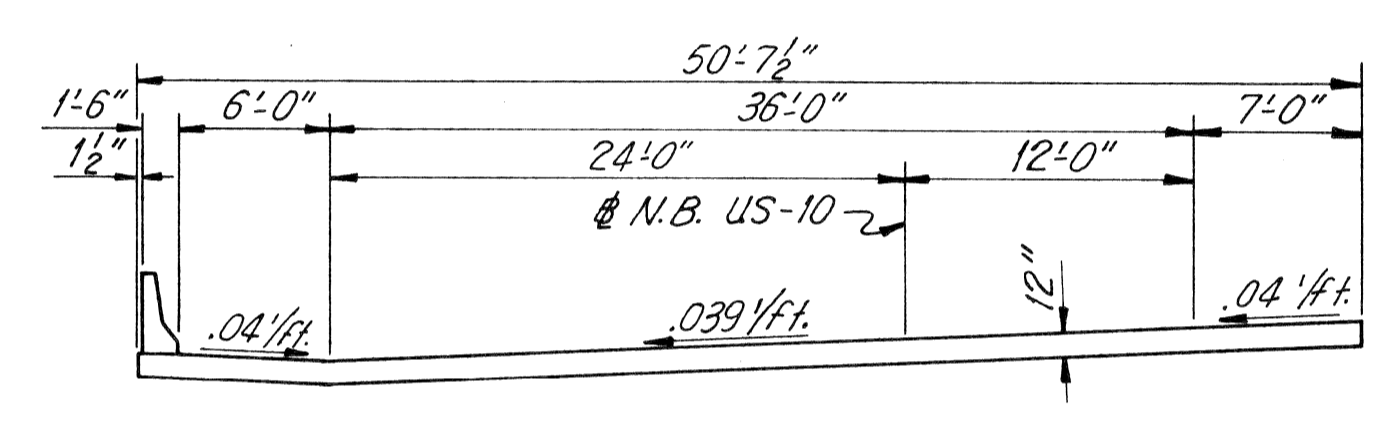
BENCH MARK*
 PBM-30 Elev. 108.22
 Arrow on fire hydrant located at the
 S side of Eastbound Jefferson Ave.
 and 130'± W. of COBO Hall.

* CITY OF DETROIT DATUM (A CONVERSION
 FACTOR OF 479.755 FT. MAY BE ADDED TO
 CONVERT TO U.S. NATIONAL GEODETIC
 SURVEY DATUM.)

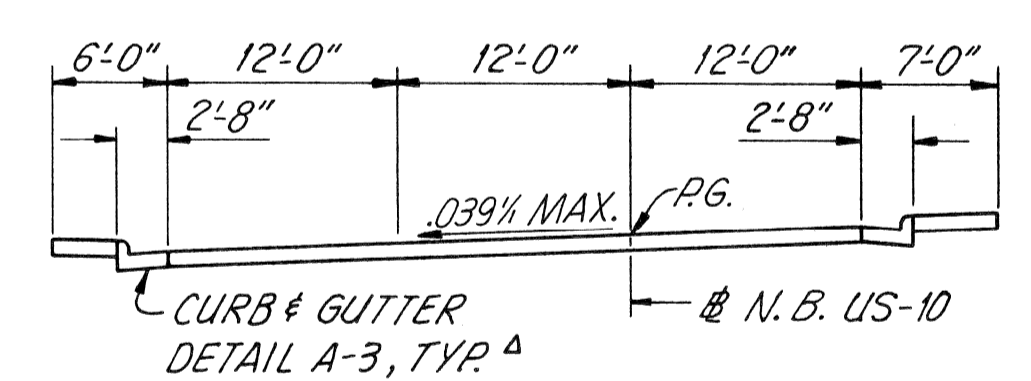
UTILITIES	
CITY OF DETROIT PUBLIC LIGHTING DEPT. 9449 GRINNELL DETROIT, MICHIGAN 48213	AMERICAN TELEPHONE & TELEGRAPH CO. 10 SOUTH CANAL CHICAGO, ILLINOIS 60606
DETROIT WATER & SEWAGE DEPT. 735 RANDOLPH ST DETROIT, MICHIGAN 48226	MICHIGAN CONSOLIDATED GAS COMPANY 500 GRISWOLD AVENUE DETROIT, MICHIGAN 48226
MICHIGAN BELL TELE CO 1922 CASS AVE DETROIT, MICHIGAN 48226	



ELEVATION
 SCALE: 3/32" = 1'-0"



SLAB SECTION
 SCALE: 3/8" = 1'-0"



TYPICAL APPROACH SECTION
 SCALE: 1" = 10'-0"

DETAIL SHOWN IS TYPICAL FOR
 SOUTH APPROACH. CURBS AND
 GUTTERS TRANSITION FROM D-3
 TO A-3 BETWEEN STATION 819+00
 AND STATION 819+25.

NOTES:
 THE WORK COVERED BY THESE PLANS INCLUDES CONSTRUCTION
 OF THE PROPOSED STRUCTURAL SLAB. ALL OTHER WORK IS INCLUDED
 IN THE ROAD PLANS THAT ARE A PART OF THIS CONTRACT.
 THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND
 UTILITIES PRIOR TO STARTING WORK, AND SHALL CONDUCT HIS OPER-
 ATIONS IN SUCH A MANNER AS TO INSURE THOSE UTILITIES NOT
 REQUIRING RELOCATION WILL NOT BE DISTURBED.
 FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR
 SHALL DIAL 800-482-7171 A MINIMUM OF 48 HOURS PRIOR TO EXCA-
 VATING IN THE VICINITY OF UTILITY LINES. ALL "MISS DIG" PARTICI-
 PATING MEMBERS 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.
 SEE ROAD PLANS FOR COORDINATES, ALIGNMENT AND UTILITY
 DETAILS.
 ALL BRIDGE WORK SHOWN IS WITHIN LIMITS OF R.O.W. PLAN DATE: 7-31-86

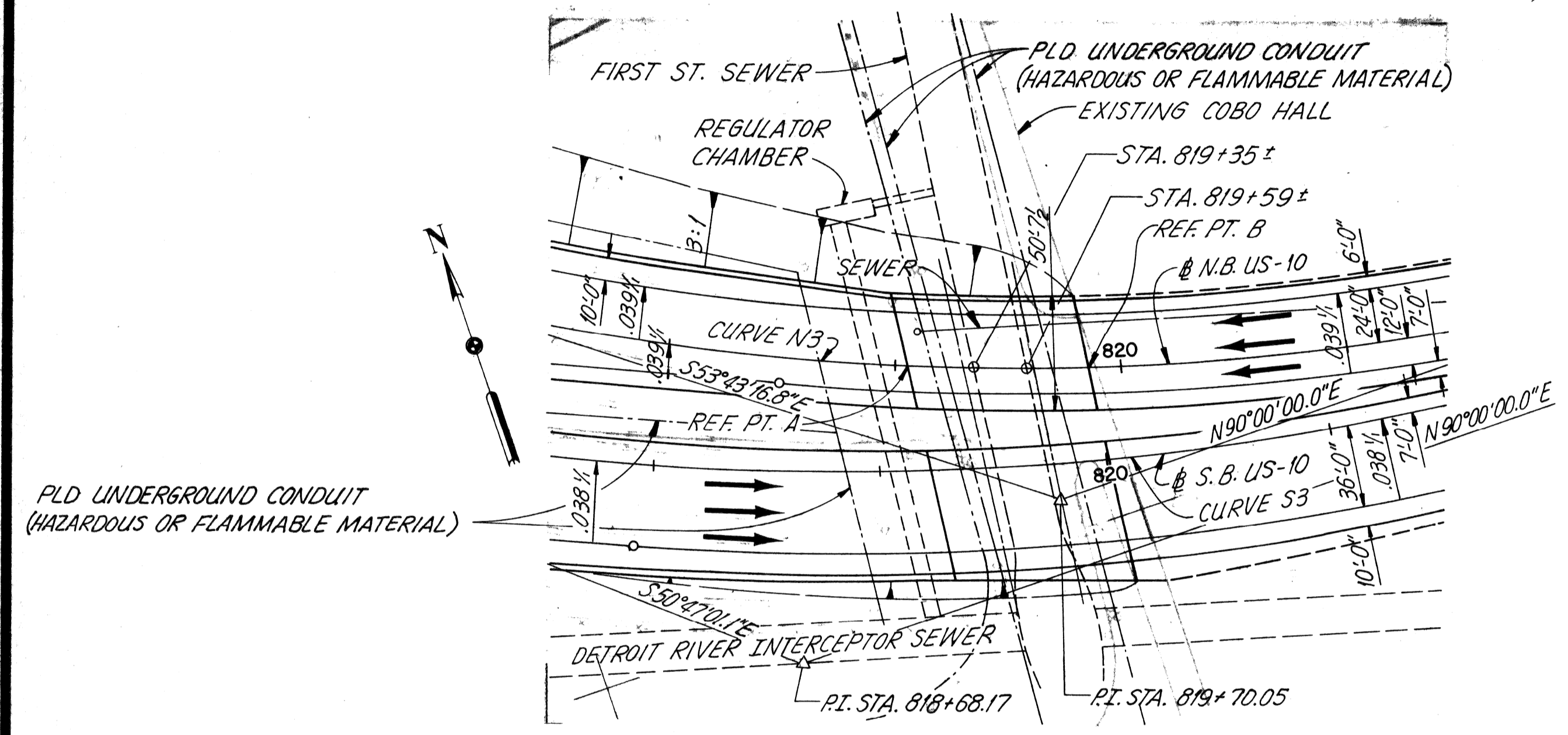
ESTIMATED TRAFFIC
 YEAR 2005
 N.B. LODGE ADT = 24,100
 S.B. LODGE ADT = 15,100

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 AND TRANSPORTATION
 PRELIMINARY PLAN A
GENERAL PLAN OF SITE
 US-10
 LODGE FREEWAY OVER
 FIRST STREET SEWER

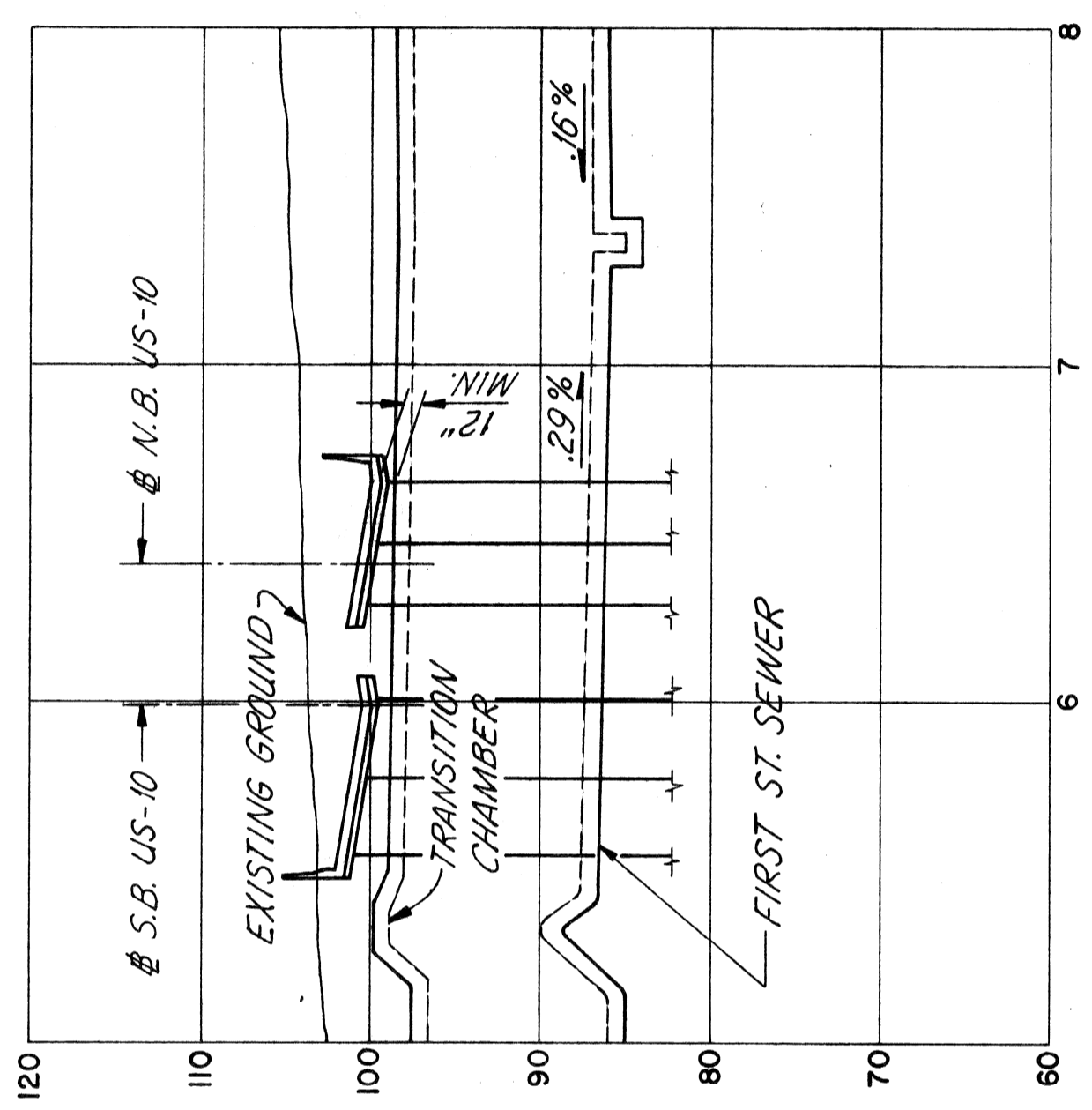
NO.	DESCRIPTION	DATE	BY

APPROVED: *X* **Lawrence C. Chick** 7/31/86
 DESIGN SUPERVISING ENGINEER

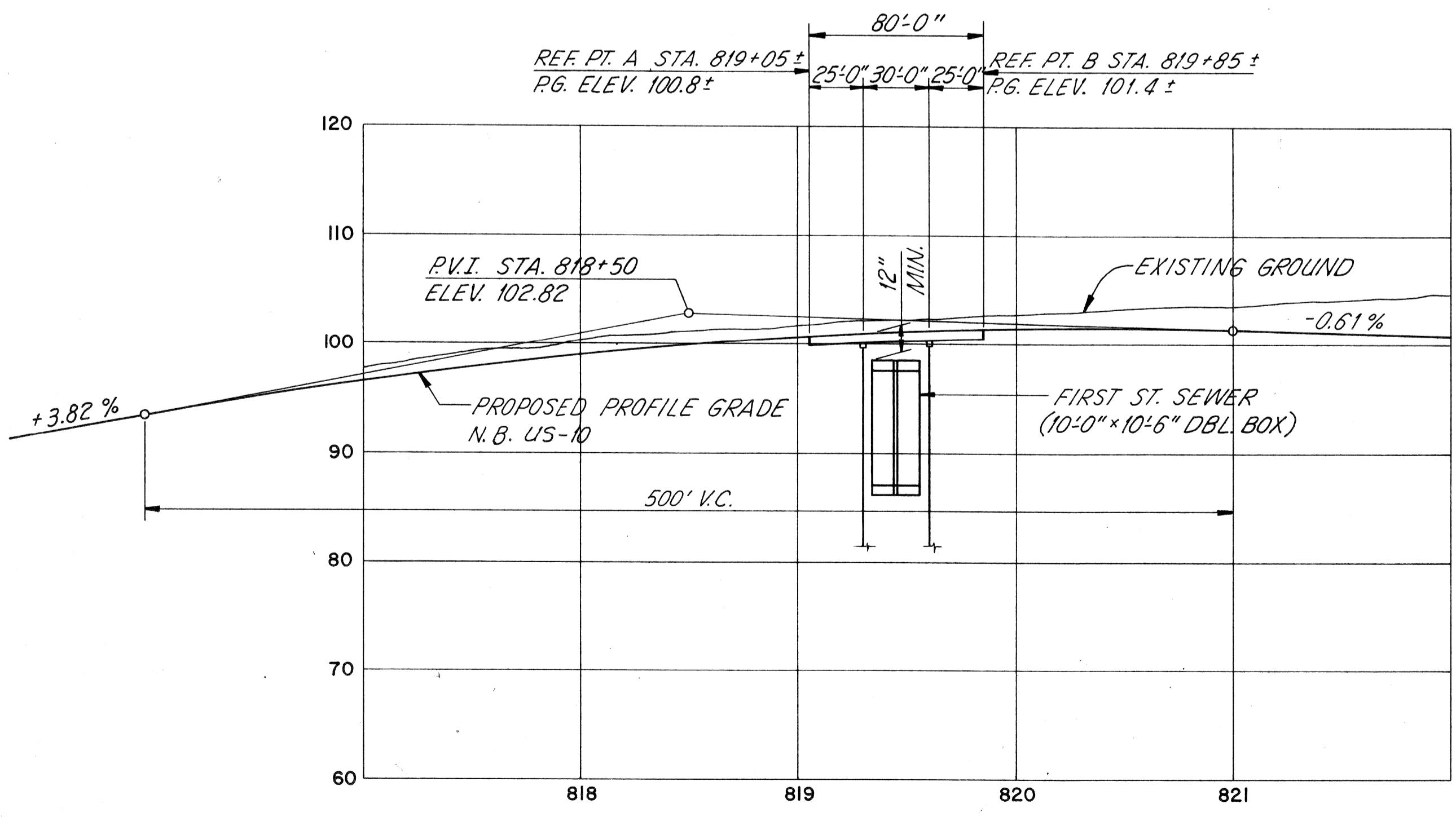
SQUAD BOSS	SP	7-86
DRAWN BY	BJT	7-86
CHECKED BY	SP	7-86
SHEET 1 OF 3		
82111		



SITUATION PLAN
 SCALE: 1" = 50'



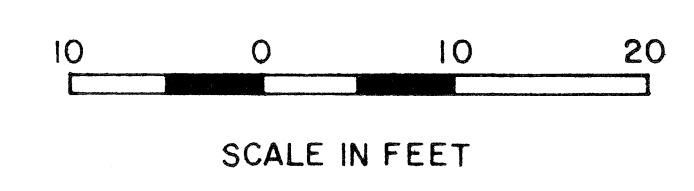
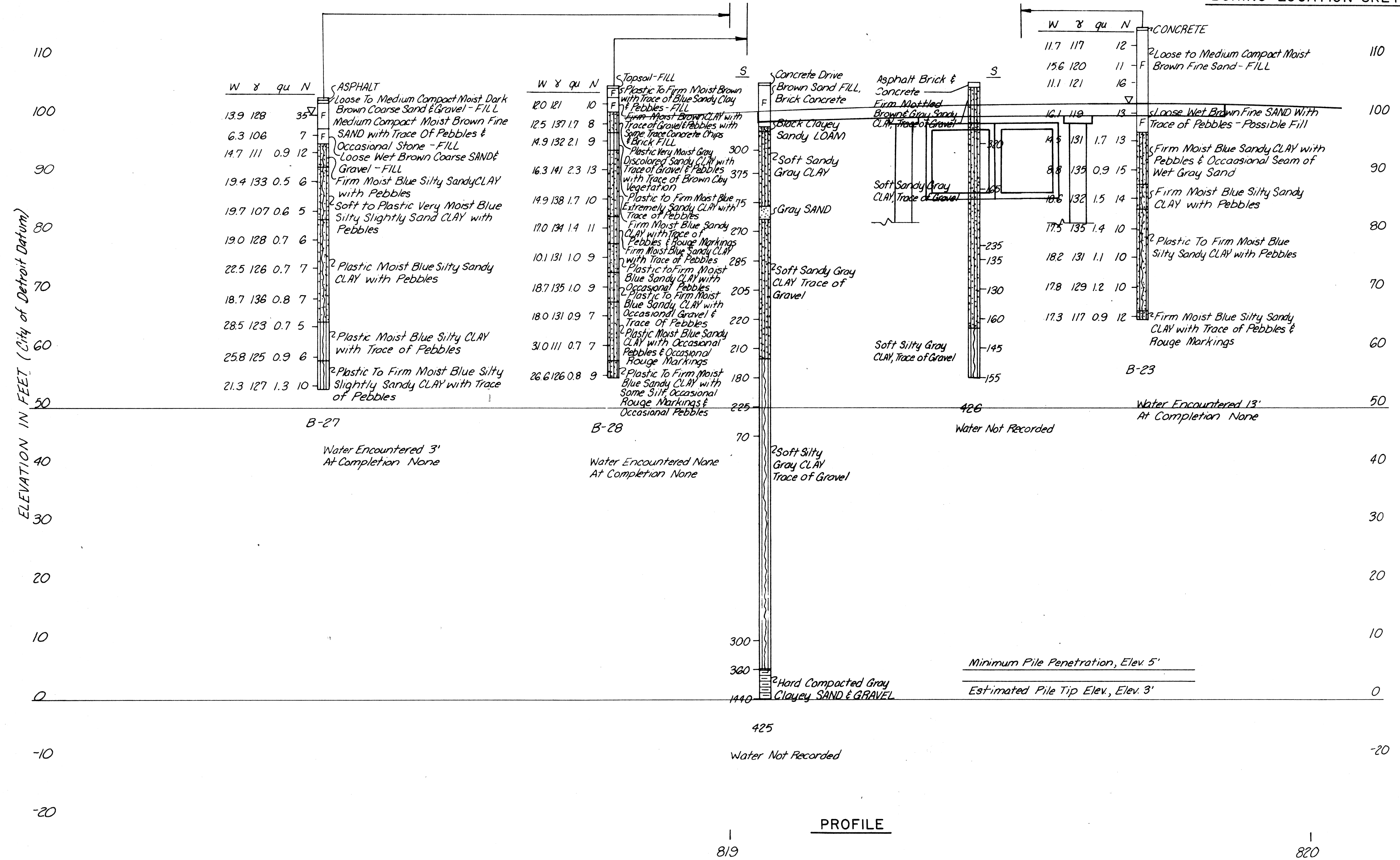
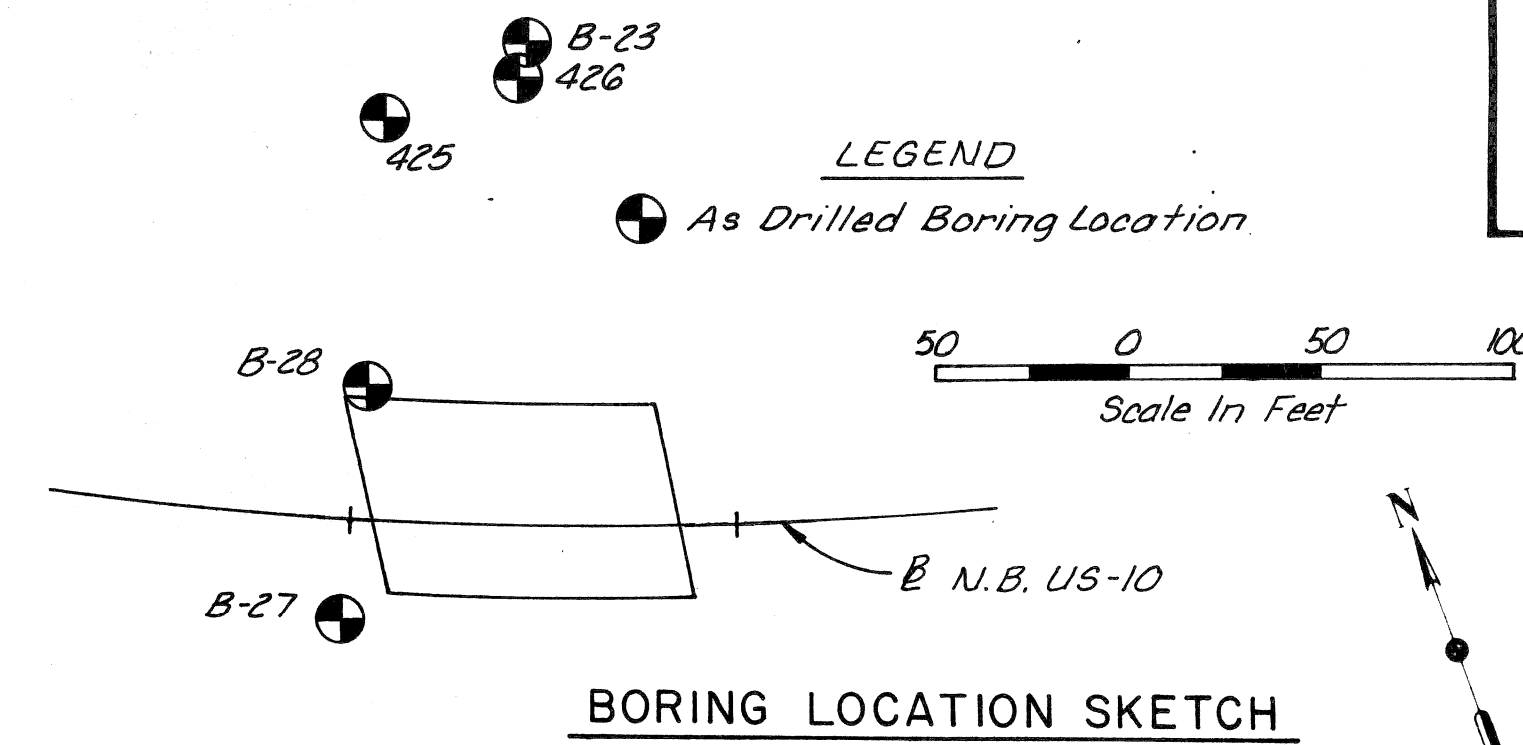
PROFILE FIRST ST. SEWER
 VERT. SCALE: 1" = 10'
 HORIZ. SCALE: 1" = 50'



PROFILE
 VERT. SCALE: 1" = 10'
 HORIZ. SCALE: 1" = 50'

9736-21-01

Prepared By



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "House1" method.

W = Natural moisture content in percent of dry weight

γ = Natural density in pounds per cubic foot

γ_d = Dry density in pounds per cubic foot

q_u = Unconfined compression in tons per square foot

N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE:
 Subsurface information shown on this drawing was obtained solely for use in establishing design controls for the project. The accuracy of this information is not guaranteed and it is not to be construed as part of the plans governing the construction of this project.

NOTE
 Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

MICHIGAN DEPARTMENT OF TRANSPORTATION
 PRELIMINARY PLAN A
**N.B. US-10 OVER
 FIRST STREET SEWER**

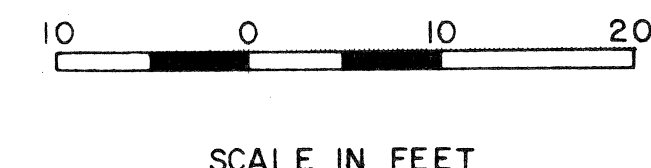
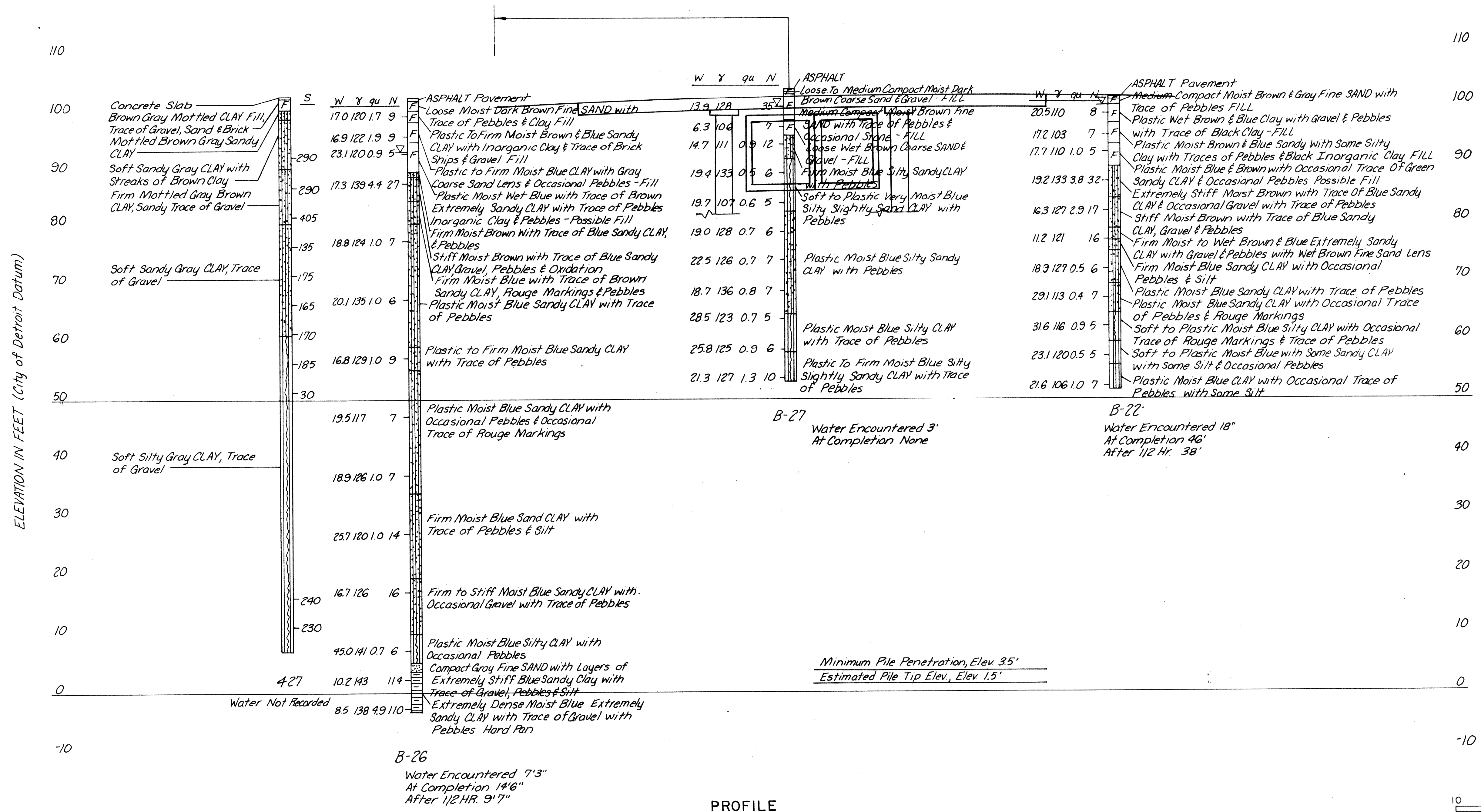
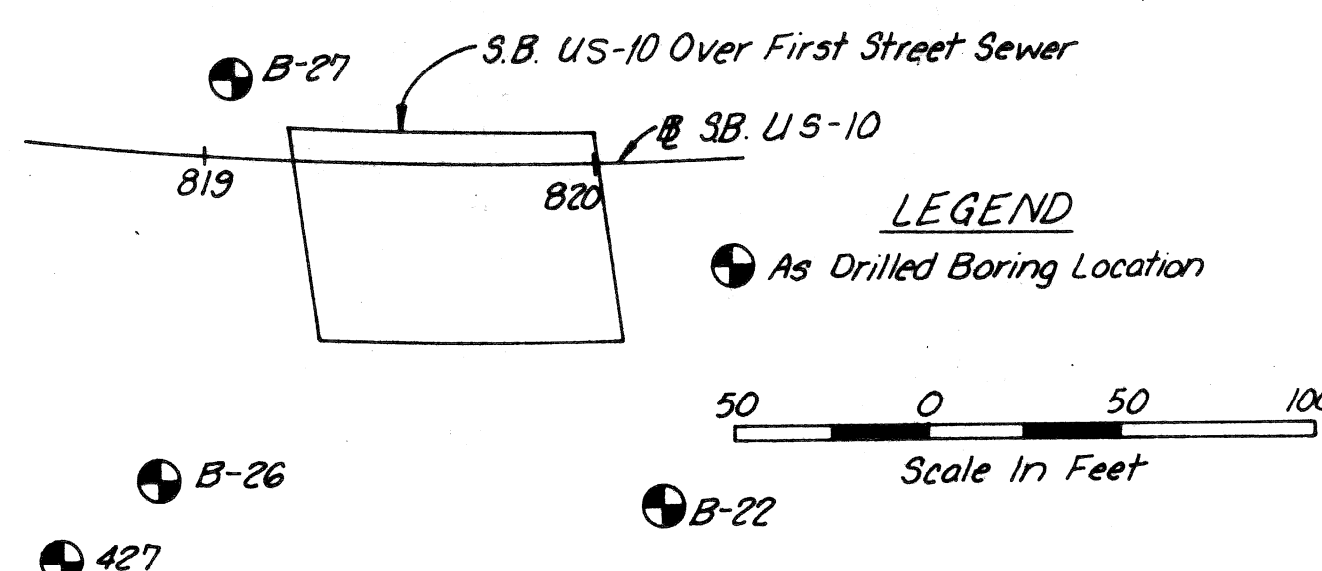
SOIL BORING DATA

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	NO.	DATE
DRAWN BY	CGL	6-86
TRACED BY	SEG	6-86
CHECKED BY	GDT	7-86

SHEET 2 OF 3
 82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
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		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

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Clay	Silt	Sand
Silty Clay	Groundwater Level	

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NOTE

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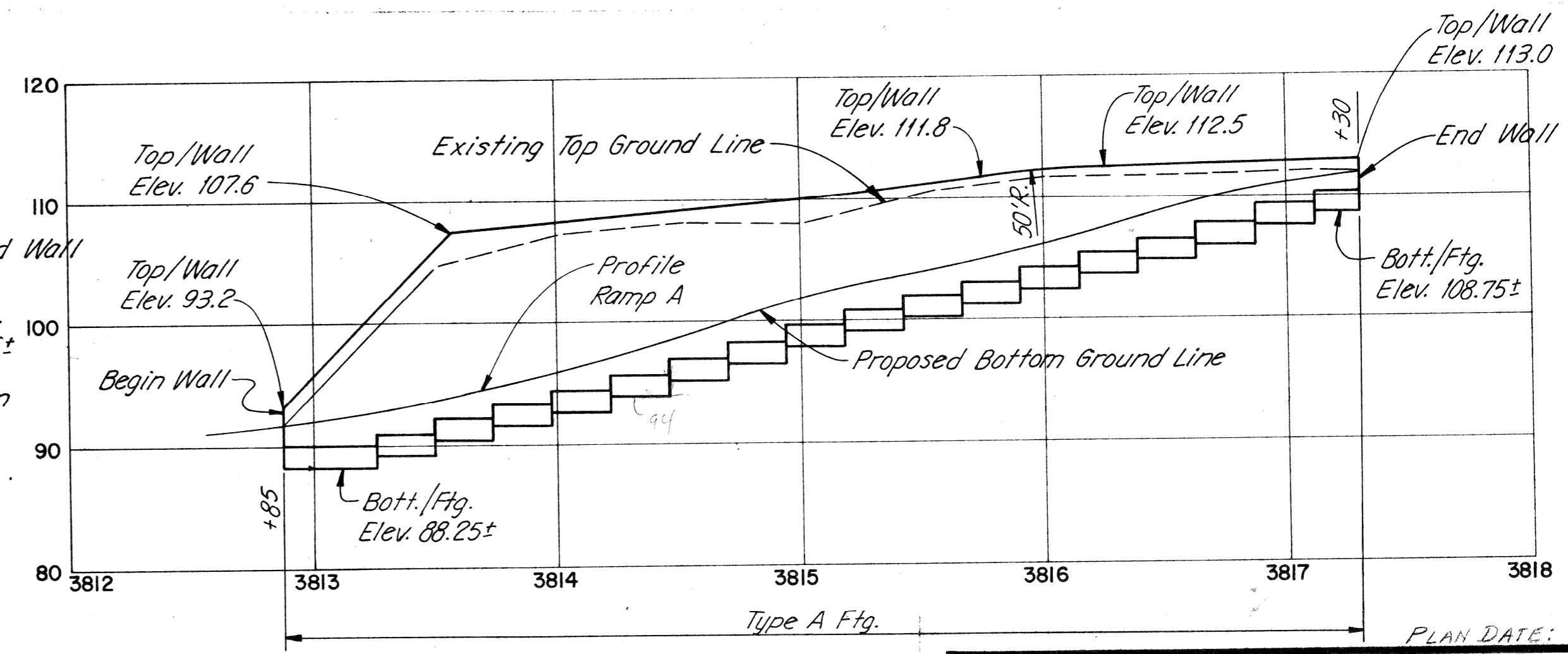
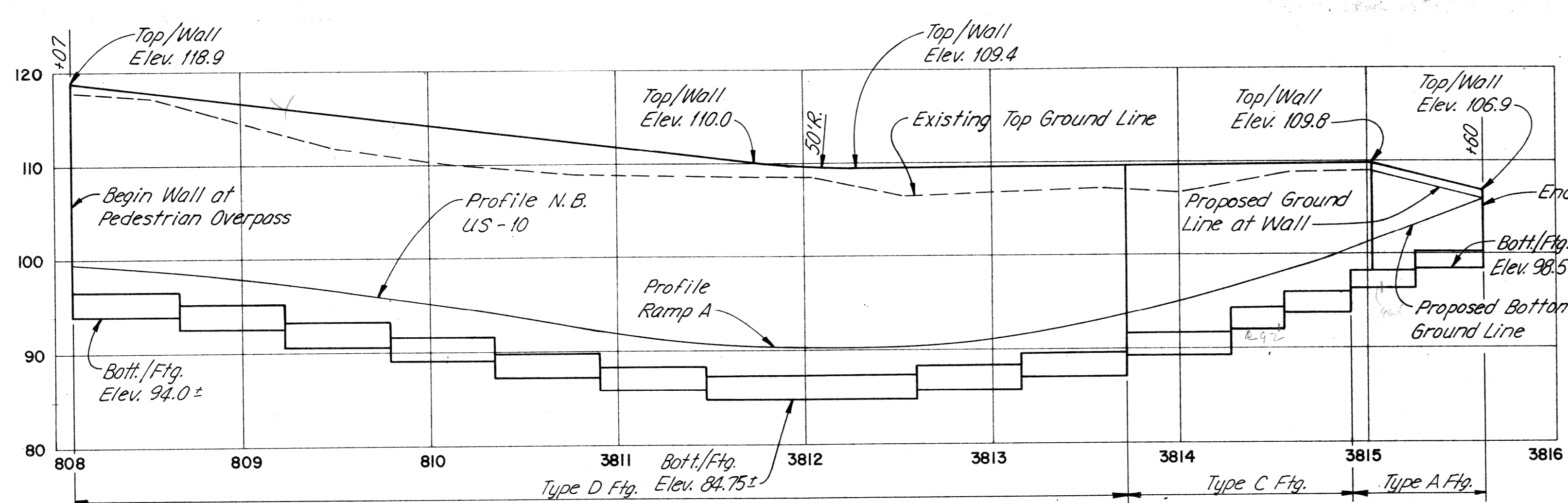
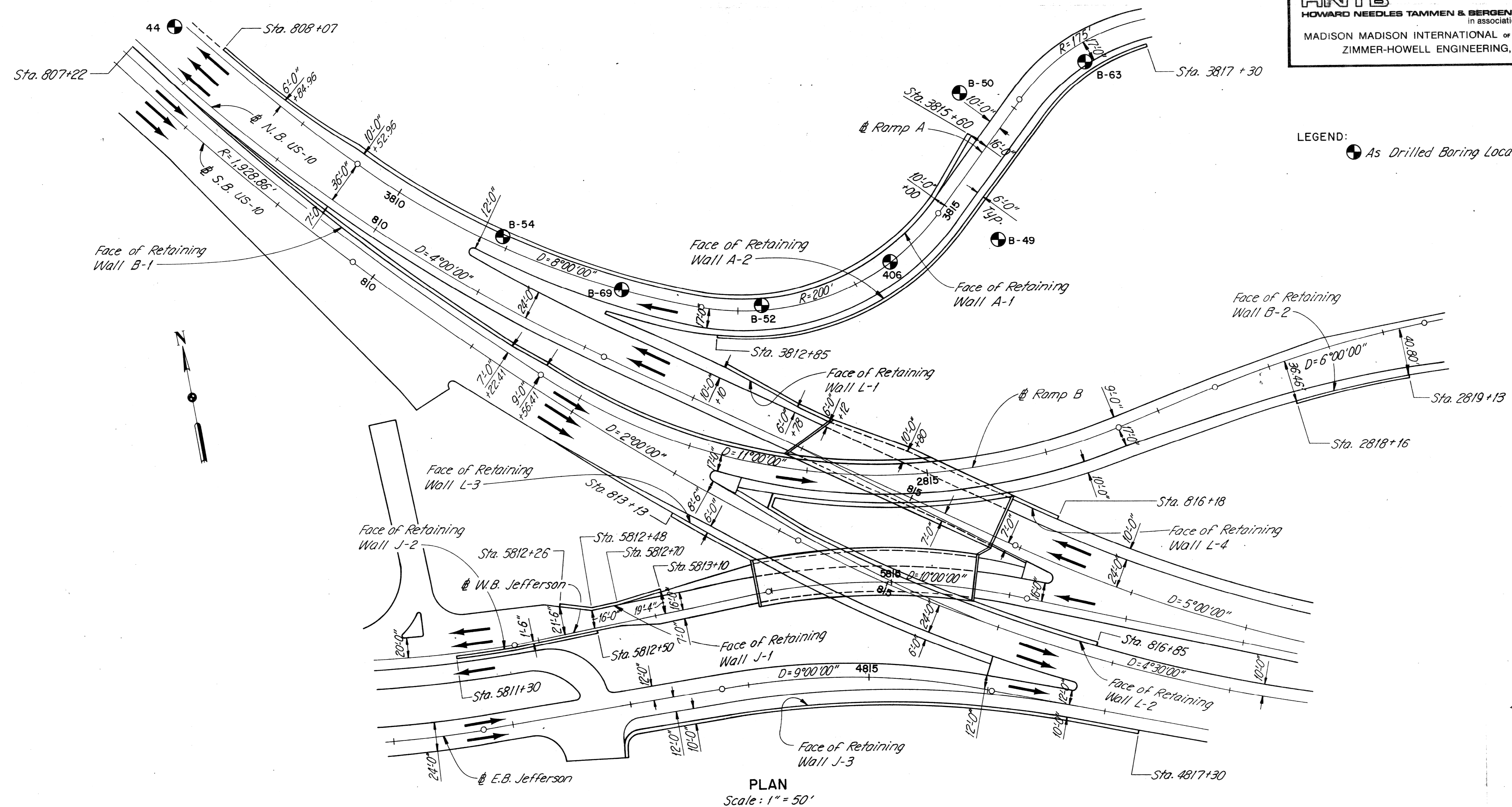
**MICHIGAN DEPARTMENT OF TRANSPORTATION
 PRELIMINARY PLANS
 S.B. US-10 OVER
 FIRST STREET SEWER - SOIL BORING DATA**

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	
DRAWN BY	CBL 6-86
TRACED BY	SEB 6-86
CHECKED BY	GDJ 7-86
SHEET 2 OF 2	
82111	

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.

LEGEND:
 As Drilled Boring Location



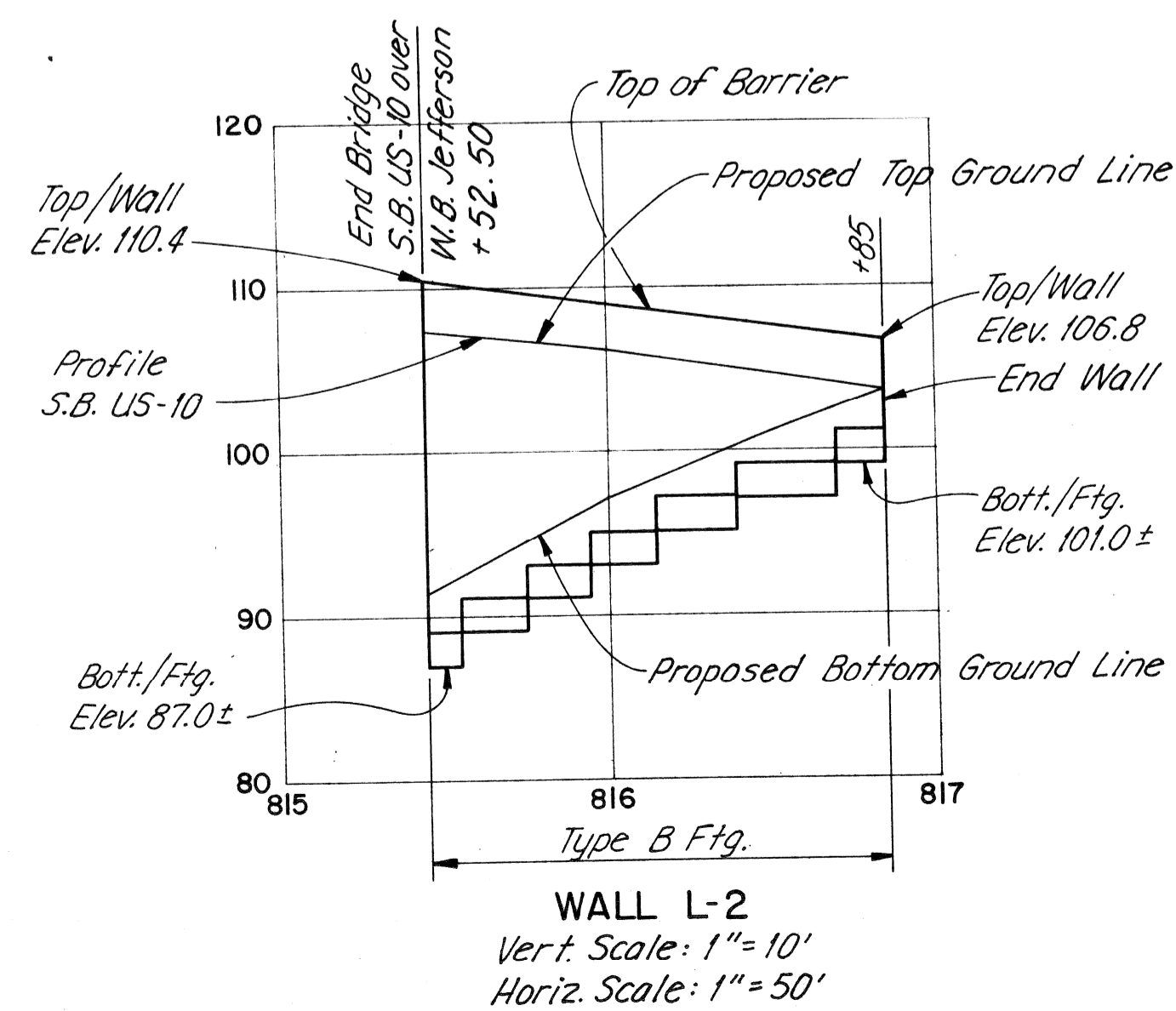
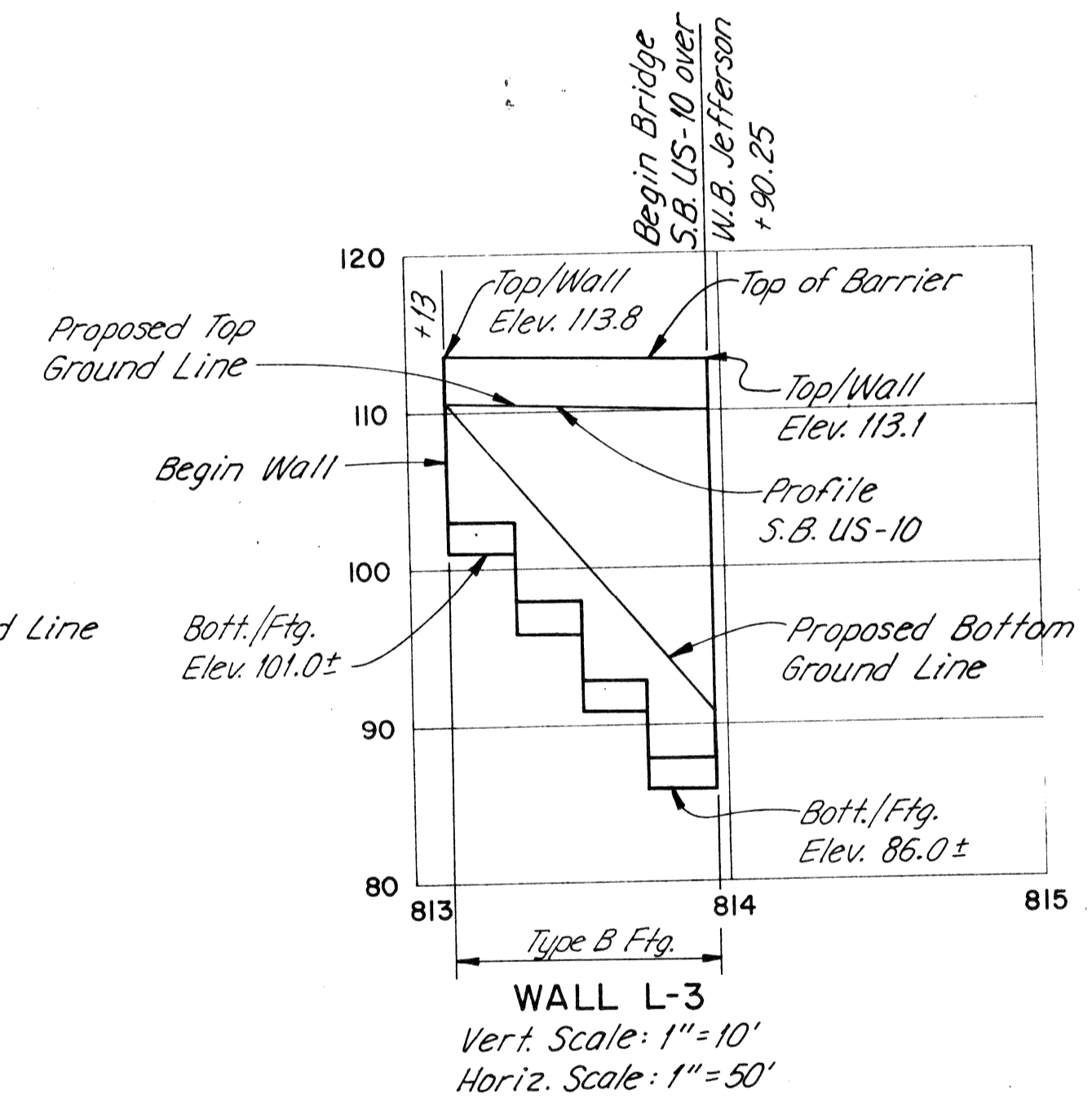
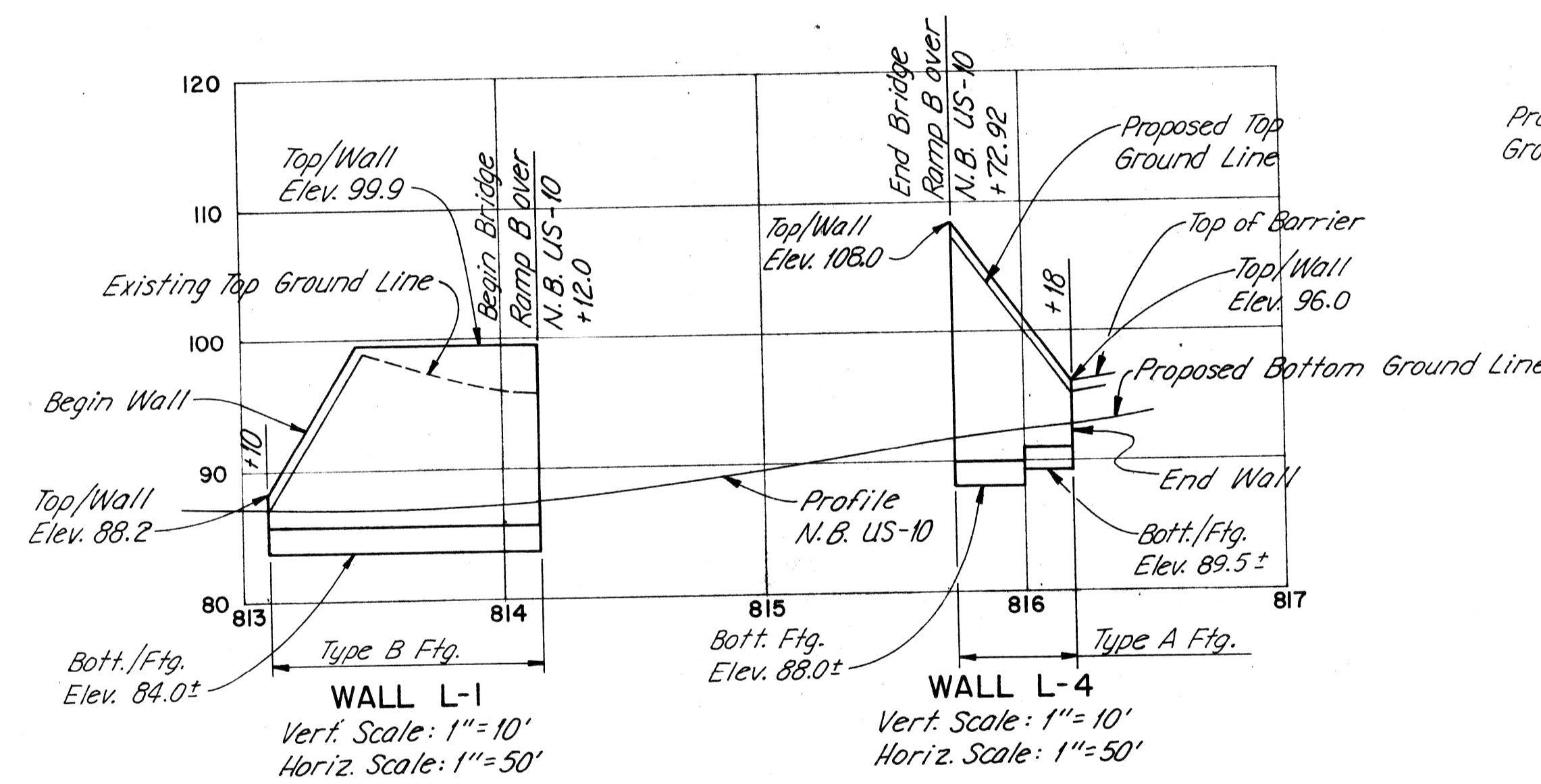
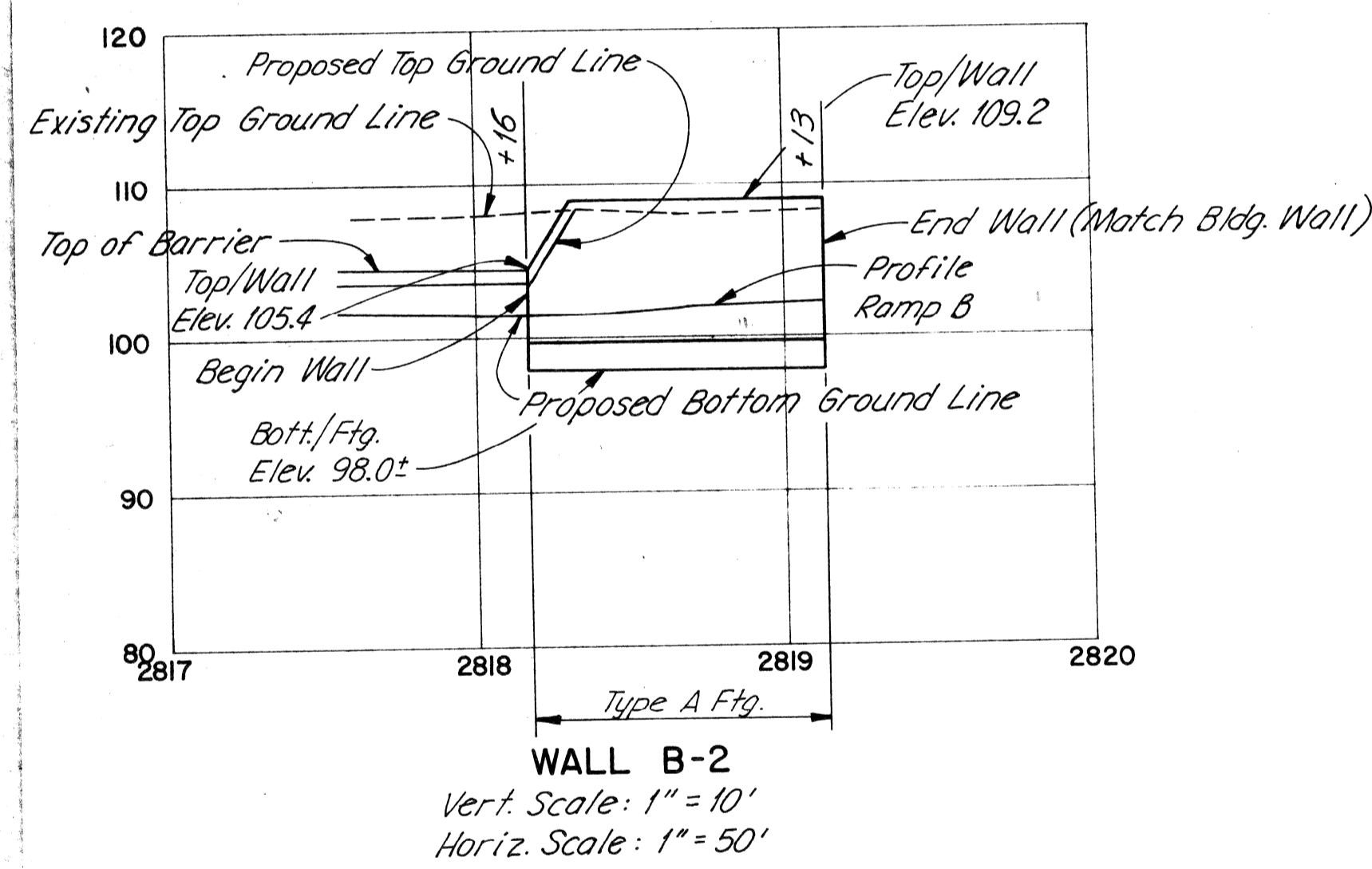
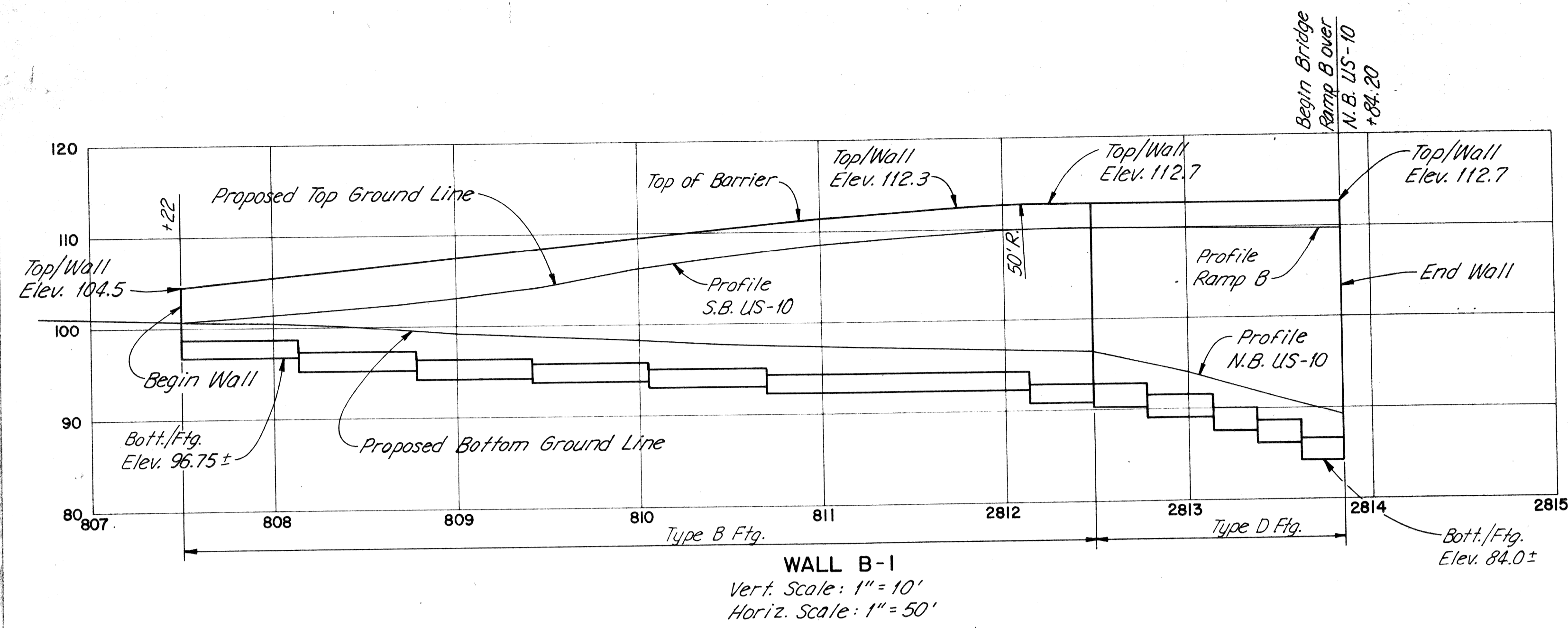
MICHIGAN DEPARTMENT OF TRANSPORTATION
RETAINING WALL PLAN AND PROFILES
 PRELIMINARY PLAN A

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	BY	DATE
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TRACED BY		
CHECKED BY	SP	7-86
SHEET 1 OF 12		

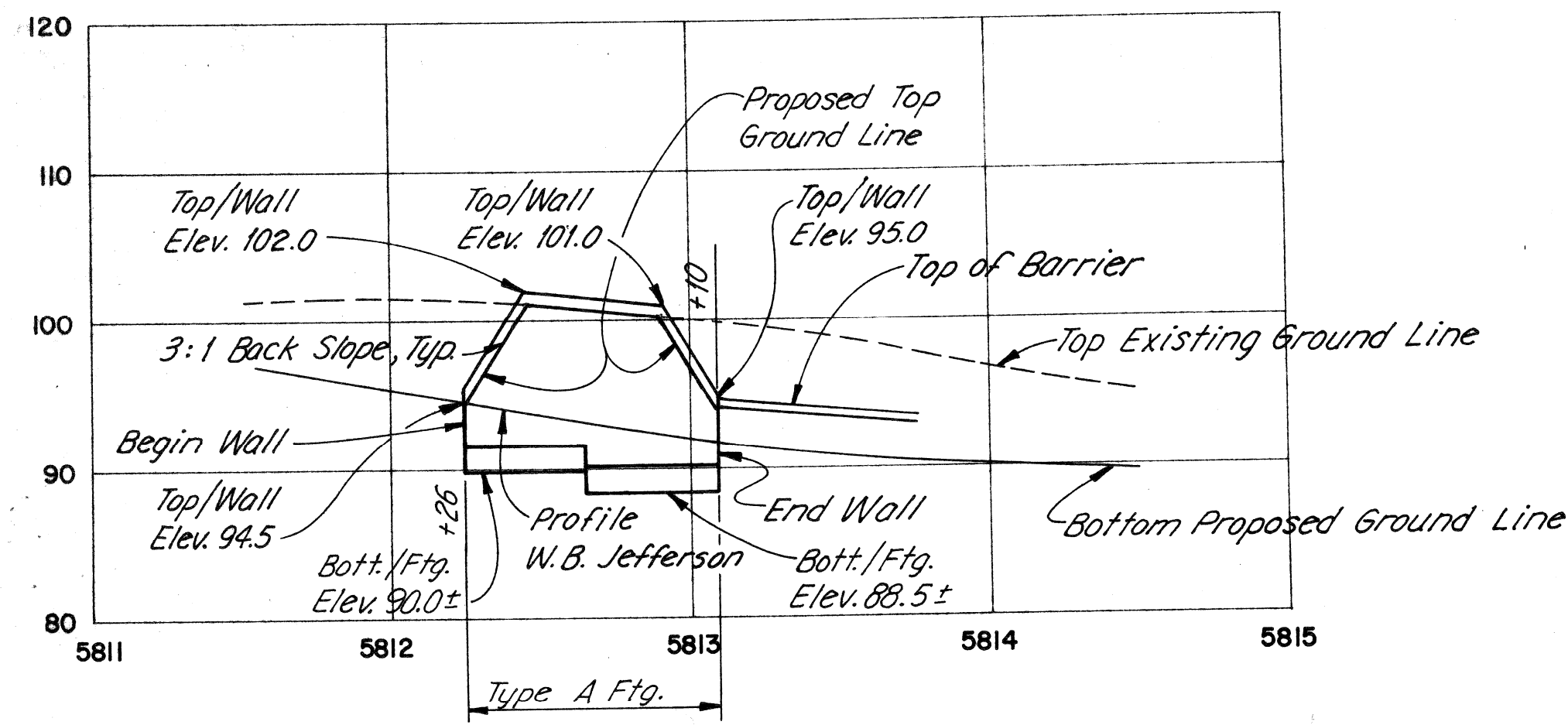
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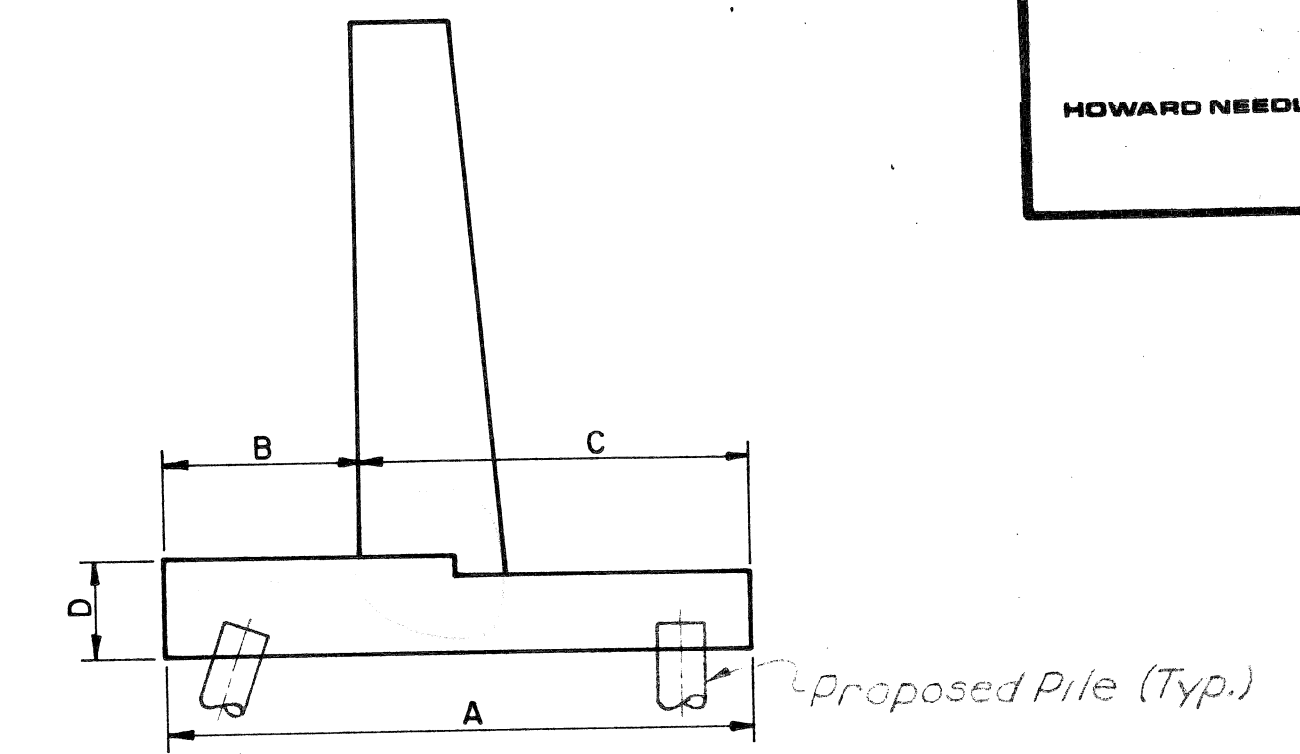
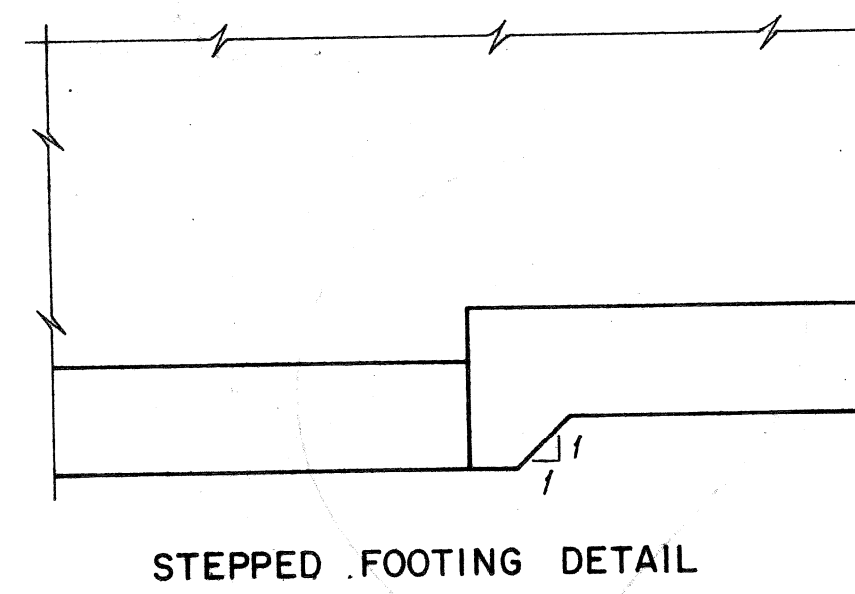


REVISIONS			
NO.	DESCRIPTION	DATE	BY

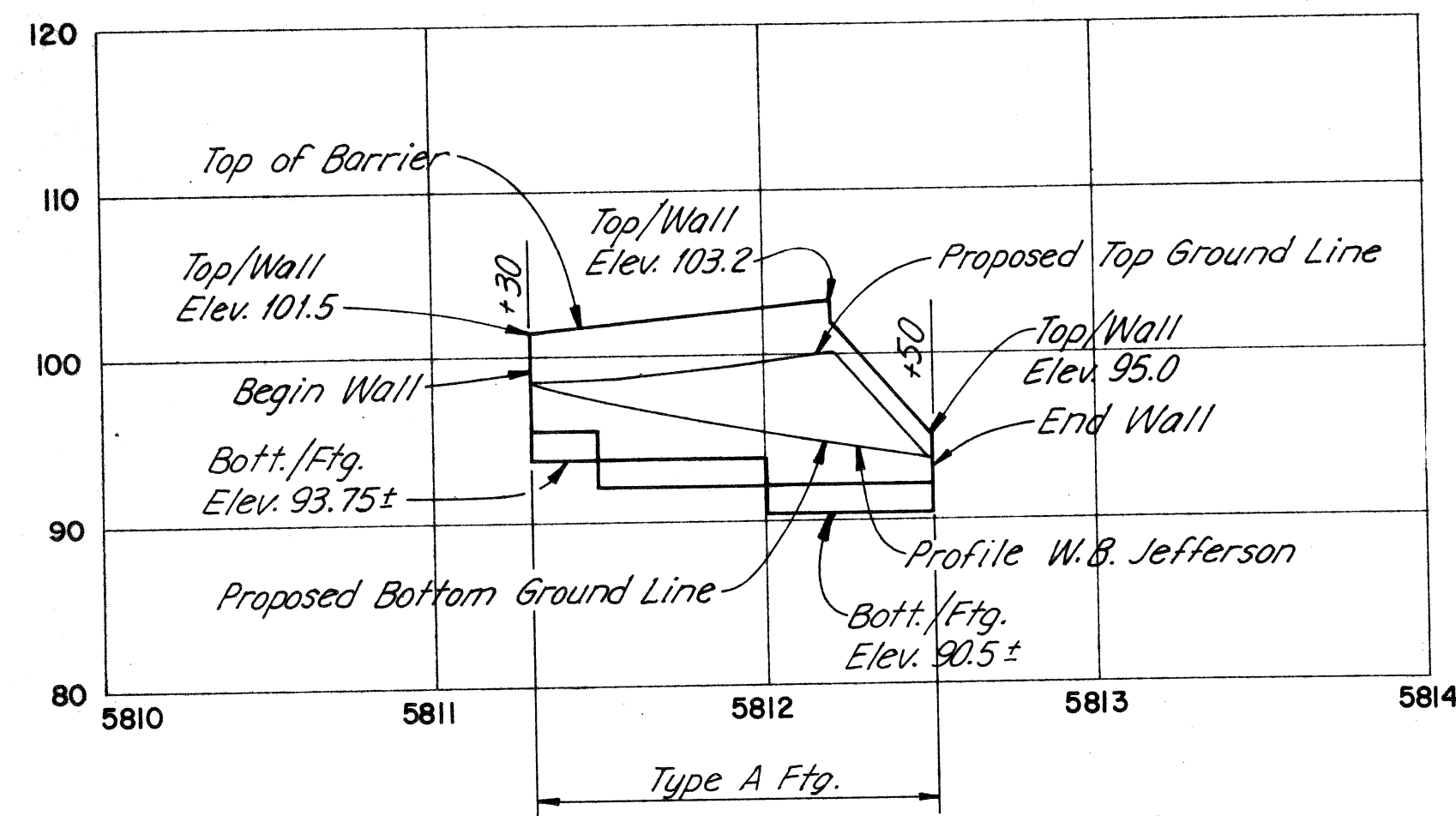
UNIT		
DRAWN BY	BJT	7-86
TRACED BY		
CHECKED BY	SP	7-86
SHEET 2 OF 12		



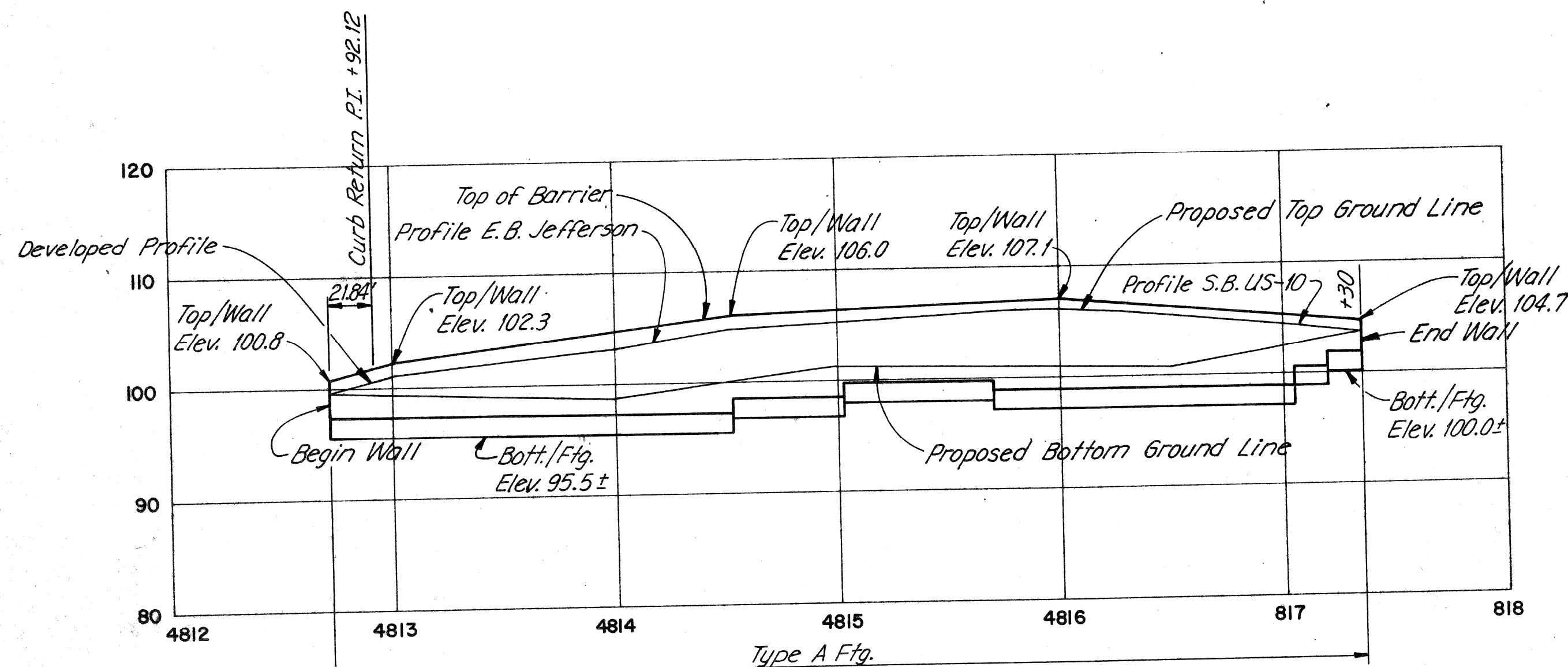
WALL J-1
 Vert. Scale: 1" = 10'
 Horiz. Scale: 1" = 50'



WALL HEIGHT	TYPE	DIMENSIONS			
		A	B	C	D
0' to 10'	A	6'-0"	2'-0"	4'-0"	1'-9"
10' to 15'	B	8'-0"	2'-8"	5'-4"	2'-0"
15' to 20'	C	10'-0"	3'-4"	6'-8"	2'-3"
Over 20'	D	12'-0"	4'-0"	8'-0"	2'-6"



WALL J-2
 Vert. Scale: 1" = 10'
 Horiz. Scale: 1" = 50'



WALL J-3
 Vert. Scale: 1" = 10'
 Horiz. Scale: 1" = 50'

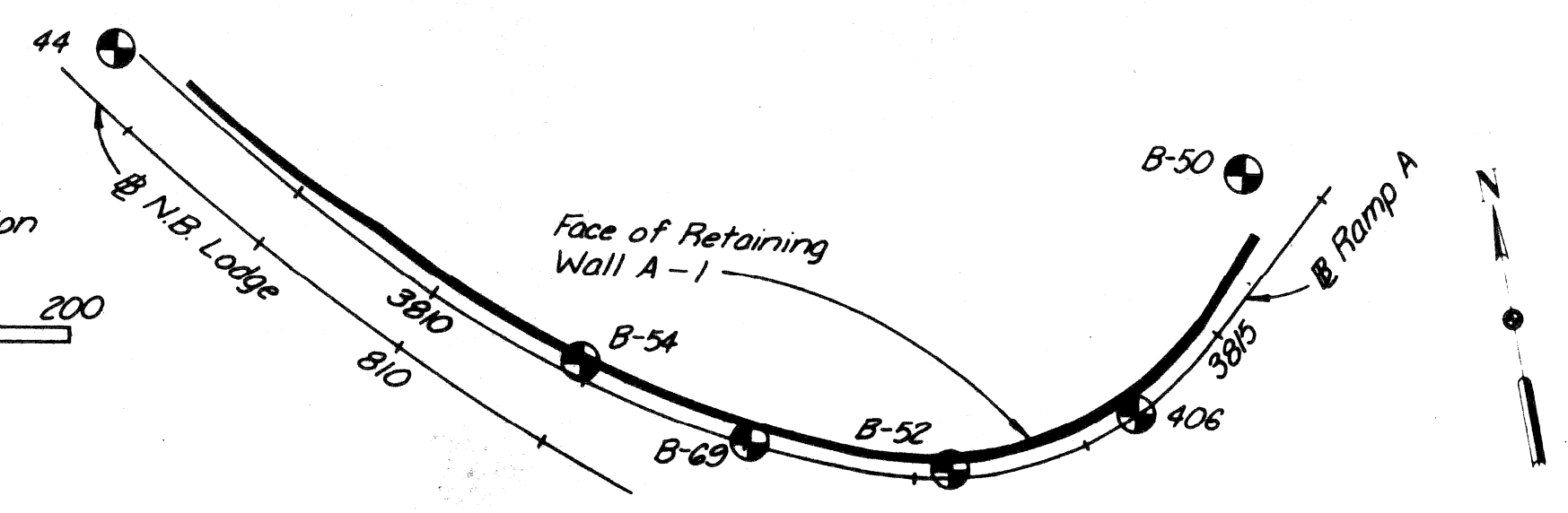
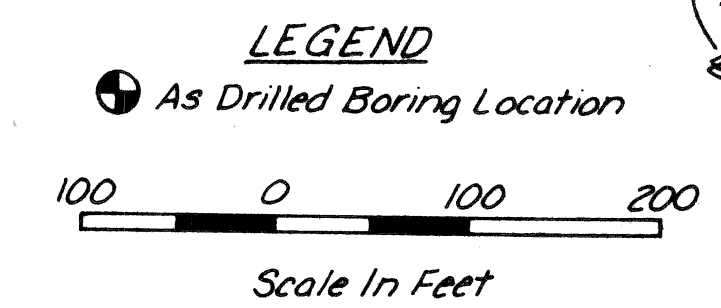
MICHIGAN DEPARTMENT OF TRANSPORTATION
RETAINING WALL PROFILES

PRELIMINARY PLAN A

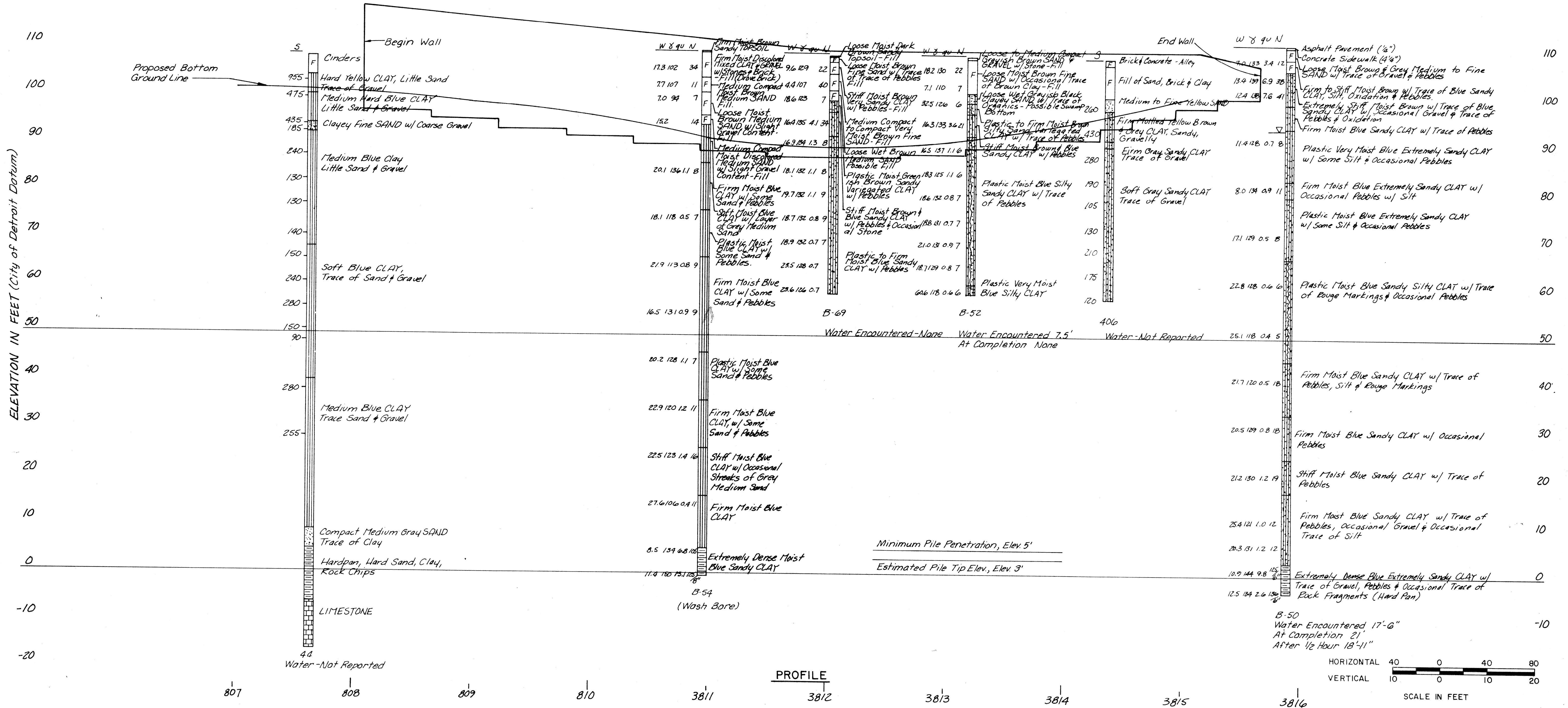
REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT		
DRAWN BY	BJT	7-86
TRACED BY		
CHECKED BY	SP	7-86
SHEET	3	OF 12

Prepared By



BORING LOCATION SKETCH



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

[Symbol]	Fill	[Symbol]	Hardpan	[Symbol]	Limestone
[Symbol]	Clay	[Symbol]	Silt	[Symbol]	Sand
[Symbol]	Silty Clay	[Symbol]	Groundwater Level		

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "Housel" method.

W = Natural moisture content in percent of dry weight

N = Natural density in pounds per cubic foot

γ_r = Dry density in pounds per cubic foot

q_u = Unconfined compression in tons per square foot

N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE:
 Subsurface information shown on this drawing was obtained solely for use in establishing design controls for the project. The accuracy of this information is not guaranteed and it is not to be construed as part of the plans governing the construction of this project.

NOTE
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MICHIGAN DEPARTMENT OF TRANSPORTATION

RETAINING WALL A-1 SOIL BORING DATA

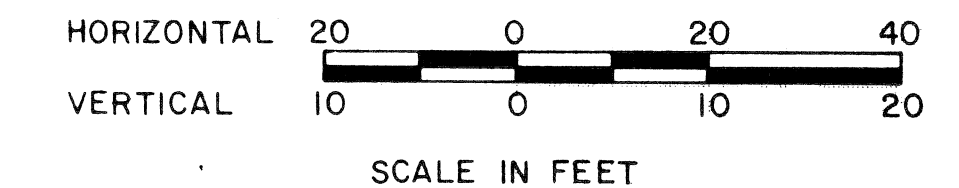
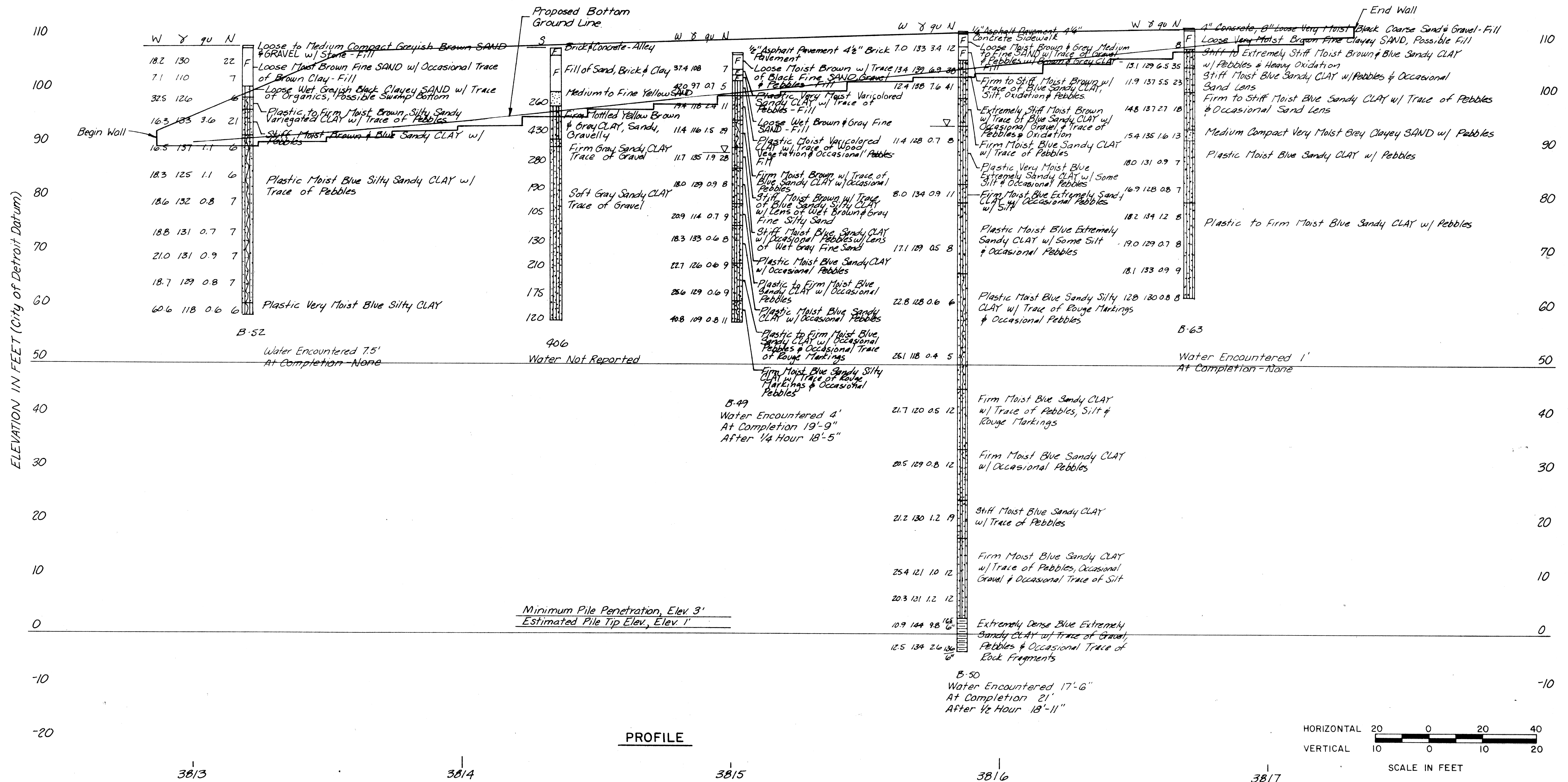
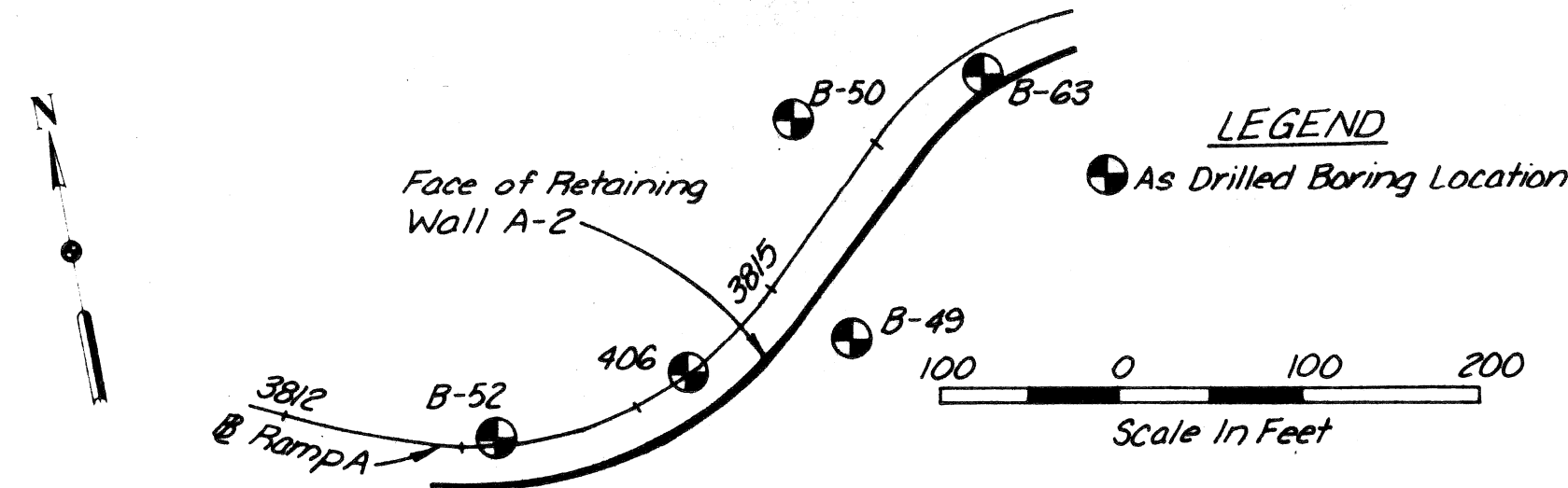
PRELIMINARY PLANS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT		
DRAWN BY	CGL	6-86
TRACED BY	SEB	6-86
CHECKED BY	GDJ	7-86
SHEET	4	OF 12

82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "House" method.

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MICHIGAN DEPARTMENT OF TRANSPORTATION

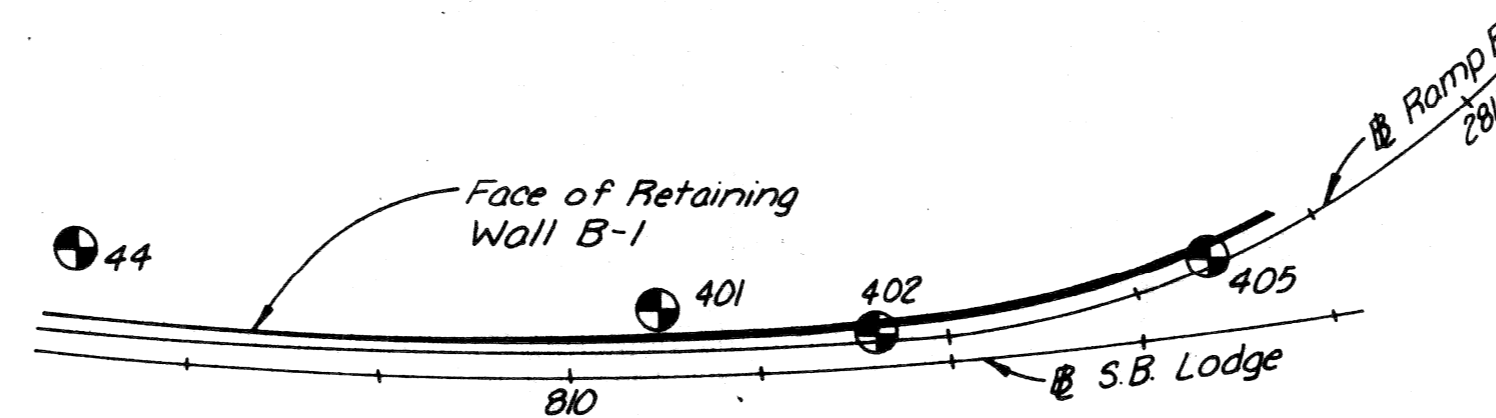
RETAINING WALL A-2 SOIL BORING DATA

PRELIMINARY PLAN A

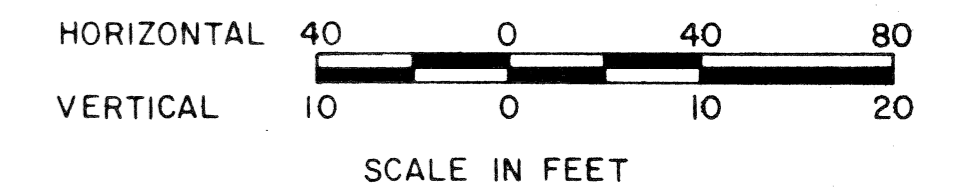
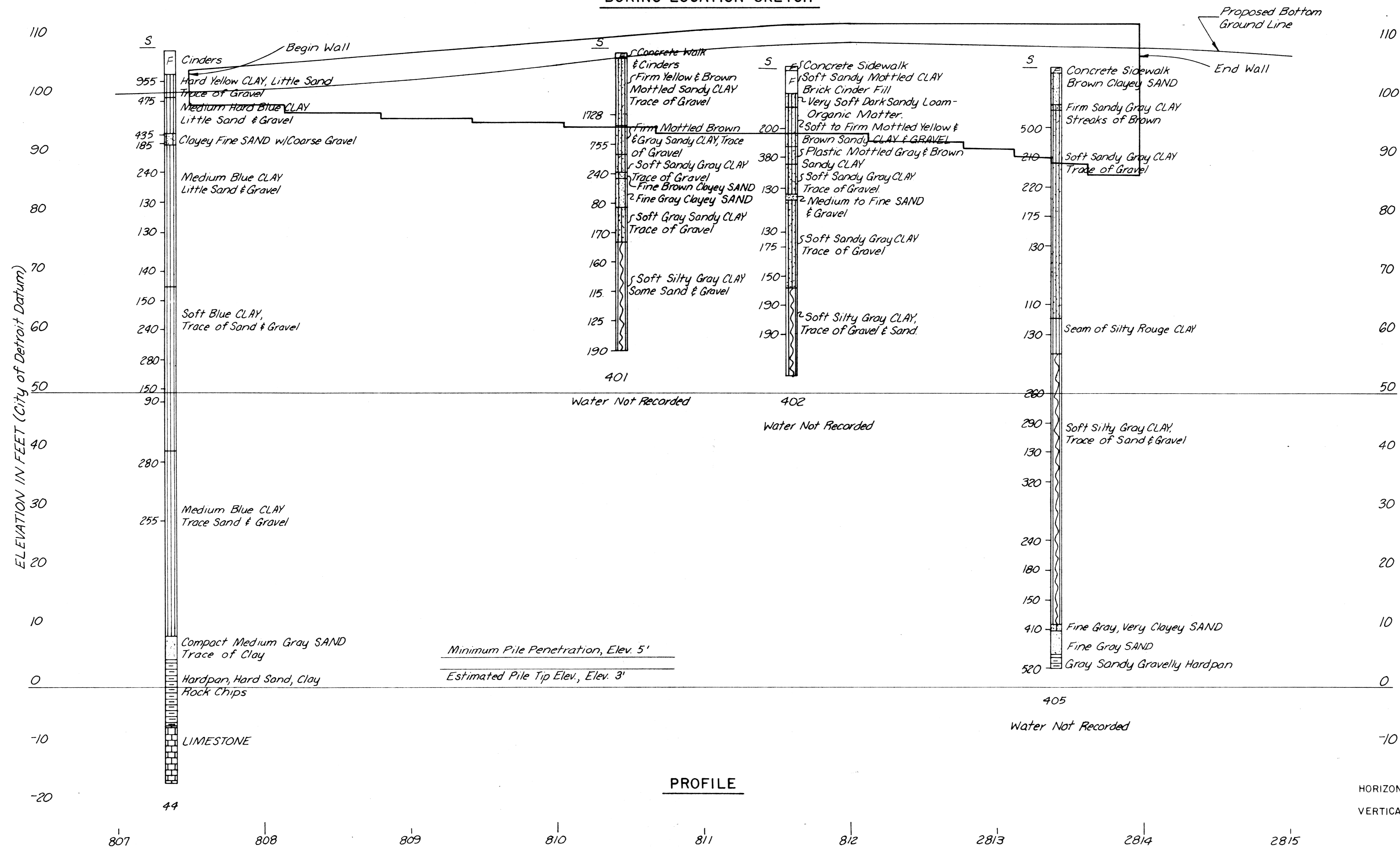
REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	
DRAWN BY	CGL 6-86
TRACED BY	SEG 6-86
CHECKED BY	GDJ 7-86
SHEET 5 OF 12	
82111	

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



BORING LOCATION SKETCH



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
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MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

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NOTE

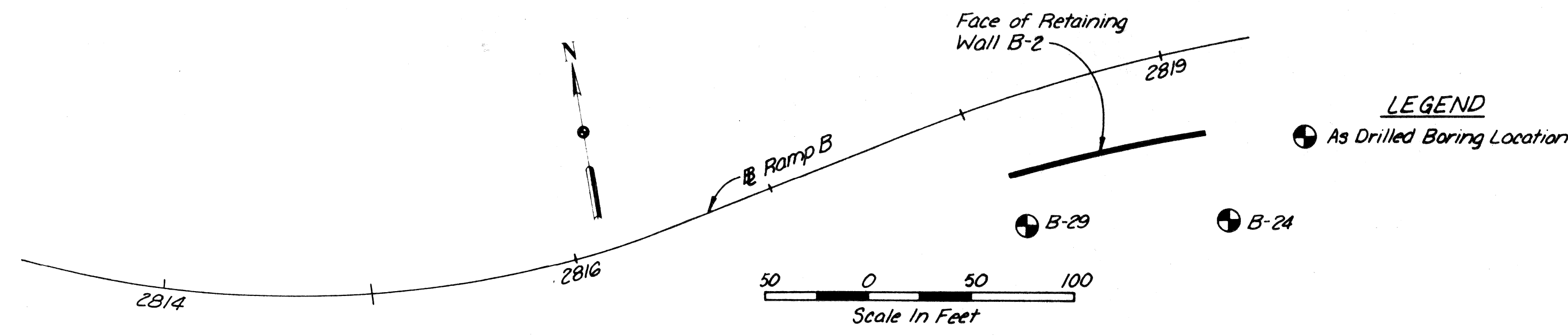
Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

REVISIONS			
NO.	DESCRIPTION	DATE	BY

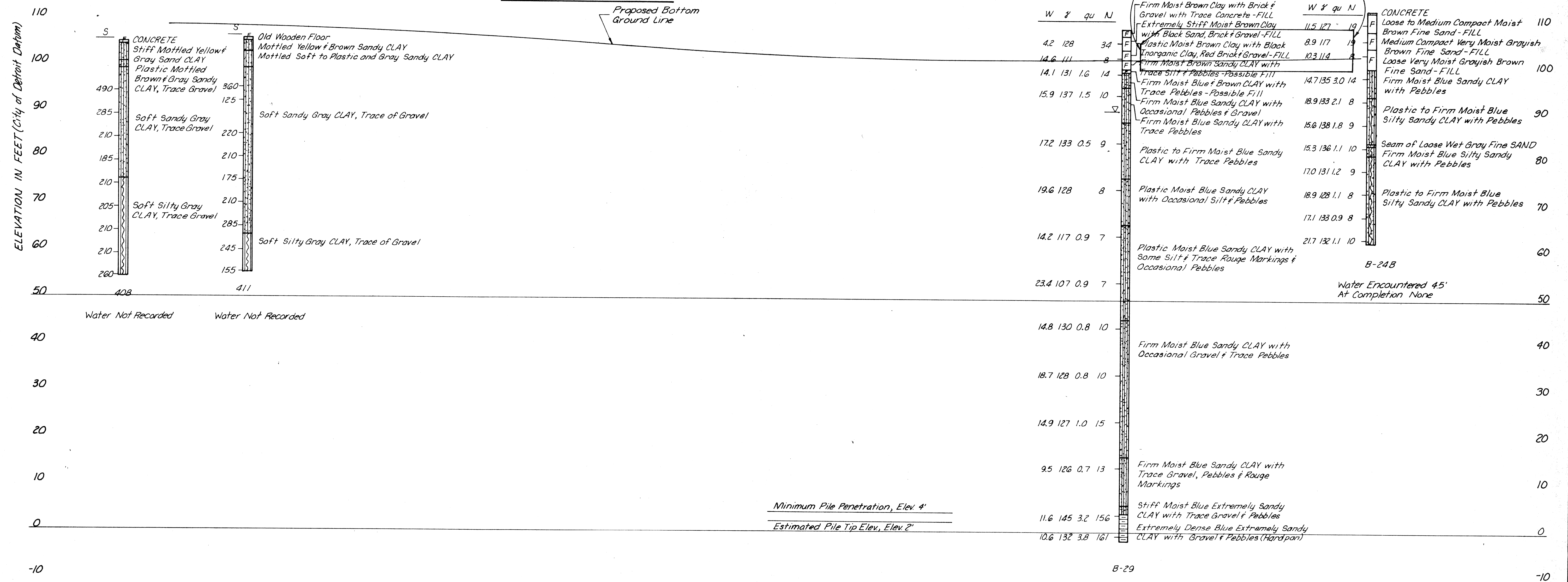
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DRAWN BY	CBL 6-86
TRACED BY	SEC 6-86
CHECKED BY	BDJ 7-86

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.

Prepared By



BORING LOCATION SKETCH



PROFILE



SOIL STRENGTH CLASSIFICATION

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Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
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MATERIALS LEGEND

Fill	Hardpan	Limestone
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Silty Clay	Groundwater Level	

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MICHIGAN DEPARTMENT OF TRANSPORTATION
RETAINING WALL B-2 SOIL BORING DATA
 PRELIMINARY PLAN A

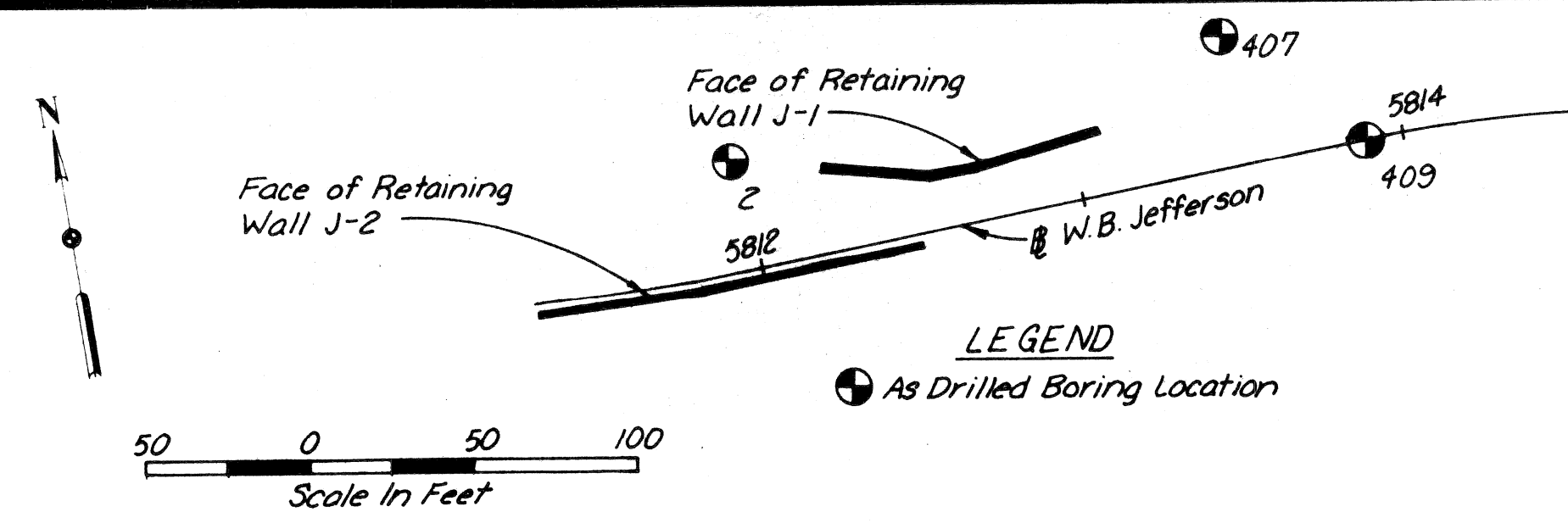
REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	DATE	BY
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TRACED BY	SEG	6-86
CHECKED BY	GDI	7-86
SHEET	7	OF 12

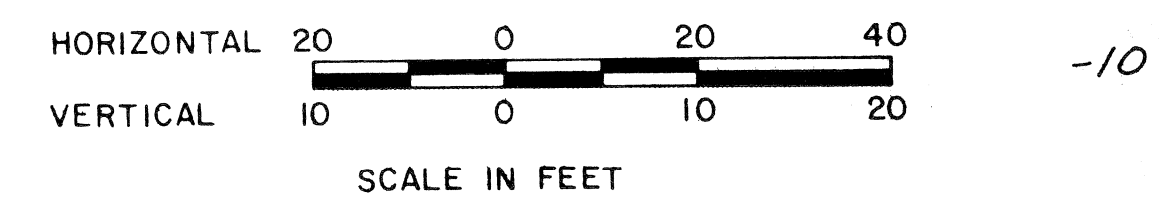
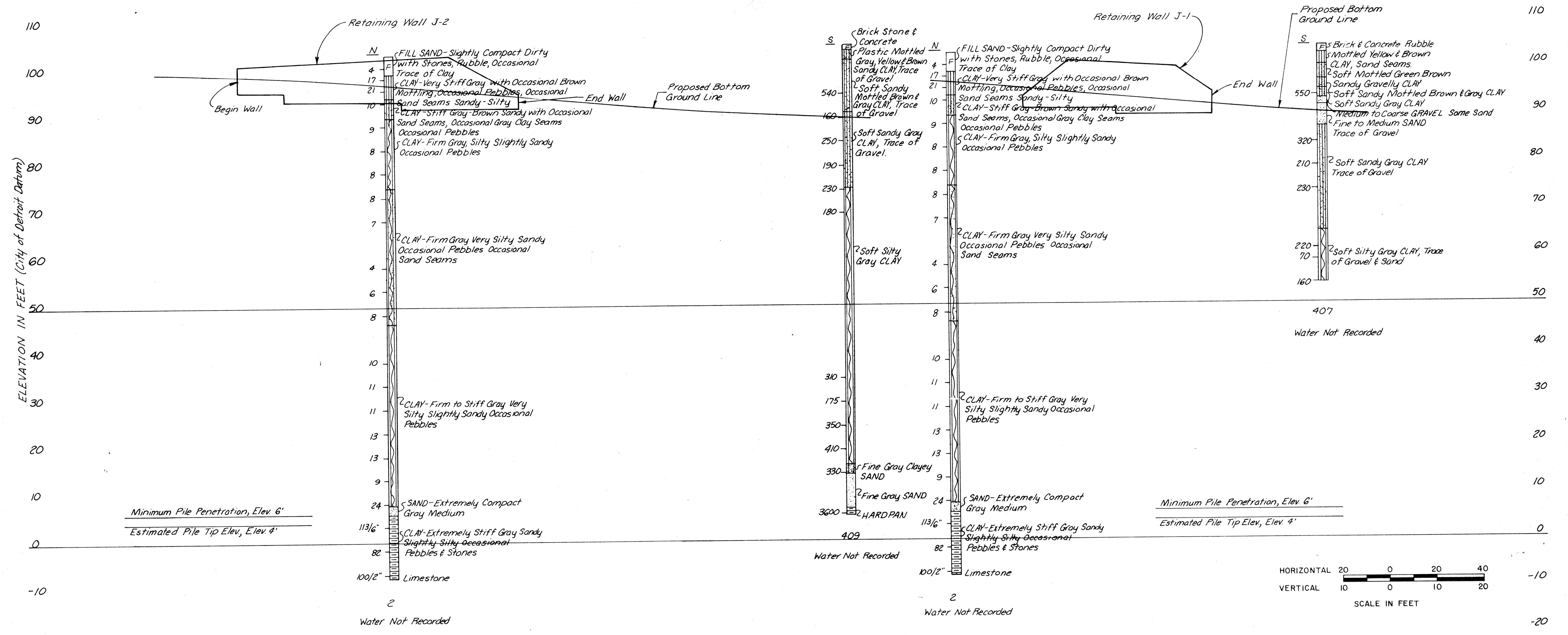
82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.

Prepared By



BORING LOCATION SKETCH



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
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		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

[Symbol] Fill	[Symbol] Hardpan	[Symbol] Limestone
[Symbol] Clay	[Symbol] Silt	[Symbol] Sand
[Symbol] Silty Clay	[Symbol] Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

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 Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

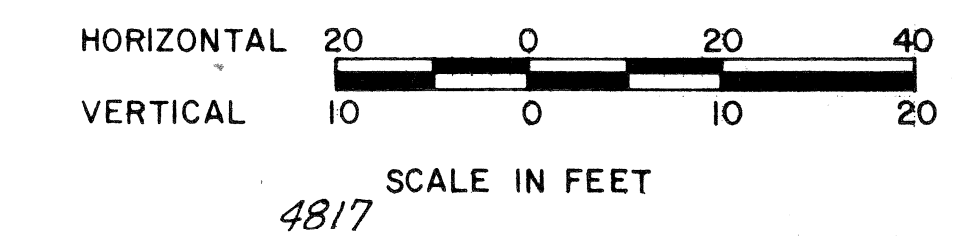
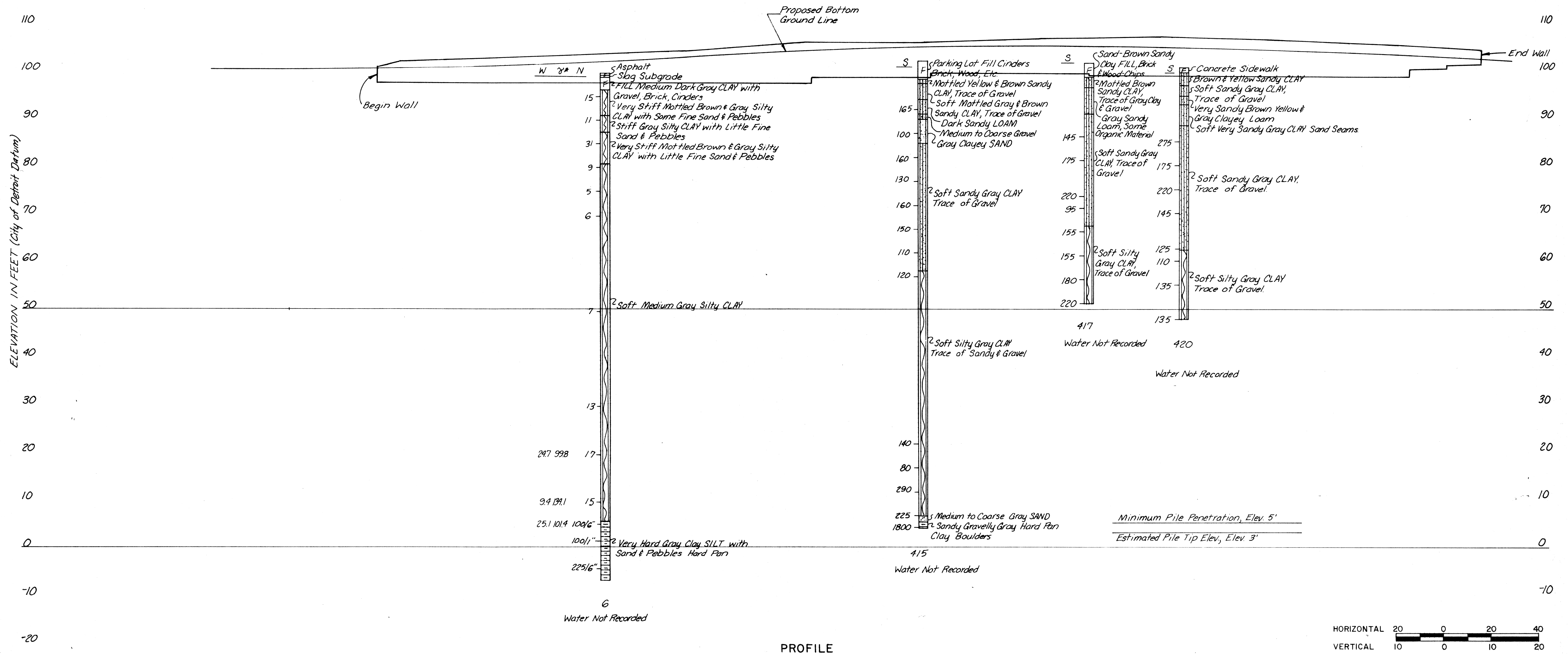
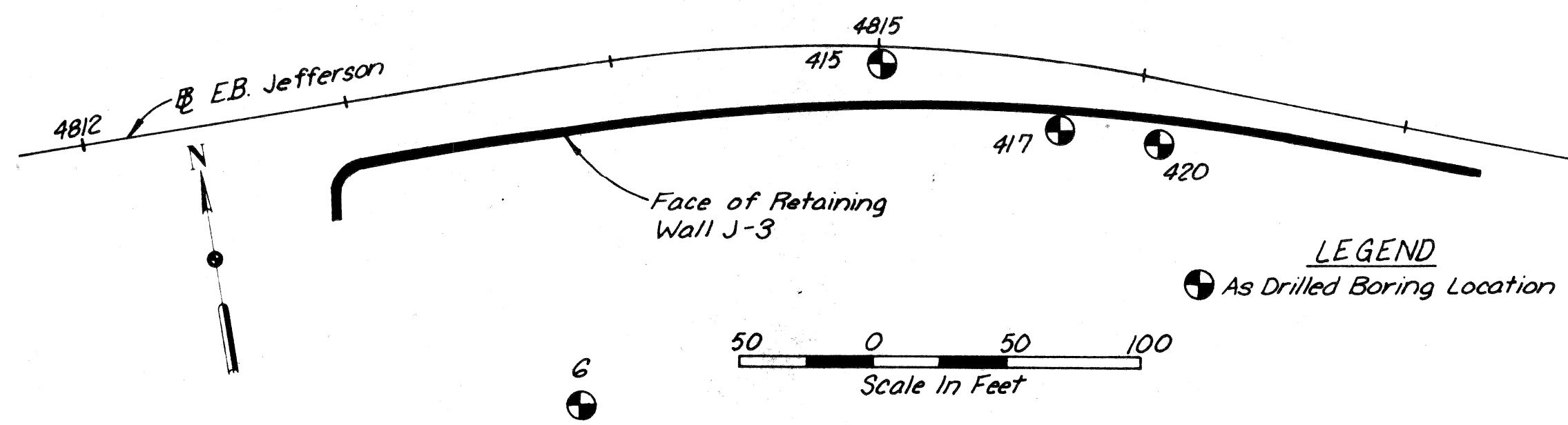
MICHIGAN DEPARTMENT OF TRANSPORTATION
RETAINING WALL J-1 & J-2 SOIL BORING DATA
 PRELIMINARY PLAN A

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	DATE
DRAWN BY: CBL	6-86
TRACED BY: SEG	6-86
CHECKED BY: BDJ	7-86
SHEET 8 OF 12	
82111	

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.

Prepared By



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
Moderately Compact	10 to 30	Plastic	250 to 500
Compact	30 to 50	Firm	400 to 800
Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "Housel" method.

W = Natural moisture content in percent of dry weight

γ = Natural density in pounds per cubic foot

γ_d = Dry density in pounds per cubic foot

q_u = Unconfined compression in tons per square foot

N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE

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MICHIGAN DEPARTMENT OF TRANSPORTATION

RETAINING WALL J-3 SOIL BORING DATA

PRELIMINARY PLANS

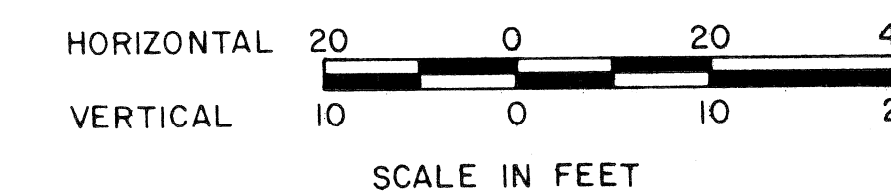
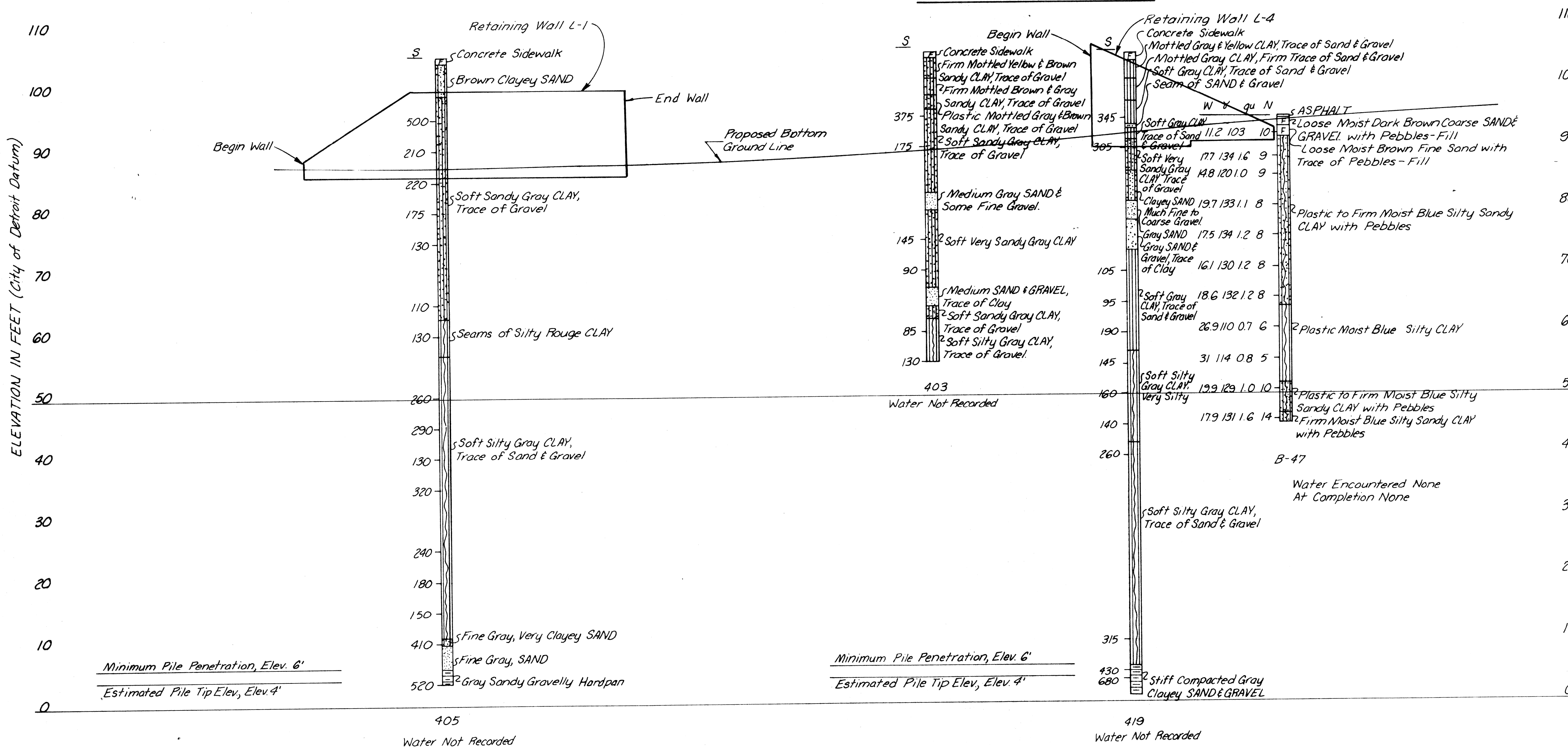
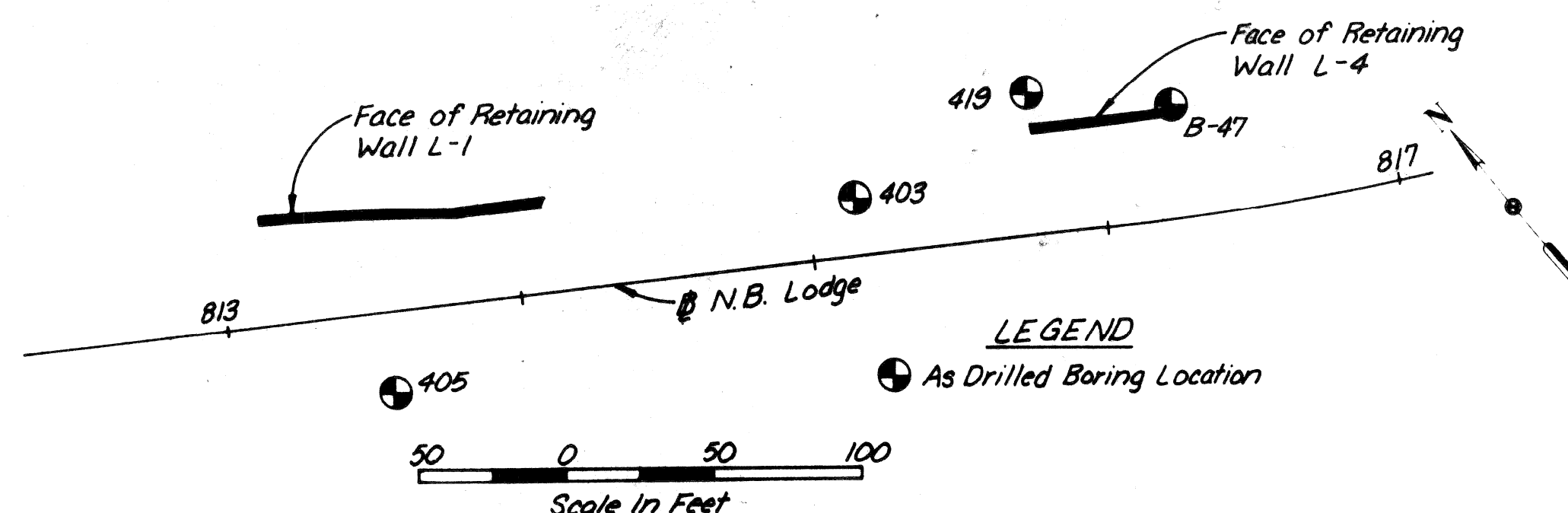
REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	DATE
DRAWN BY: CBL	6-86
TRACED BY: SEG	6-86
CHECKED BY: GDT	7-86

SHEET 9 OF 12

82111

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



PROFILE

SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
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MATERIALS LEGEND

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Silty Clay	Groundwater Level	

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- qu = Unconfined compression in tons per square foot
- N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE:
 Subsurface information shown on this drawing was obtained solely for use in establishing design controls for the project. The accuracy of this information is not guaranteed and it is not to be construed as part of the plans governing the construction of this project.

NOTE

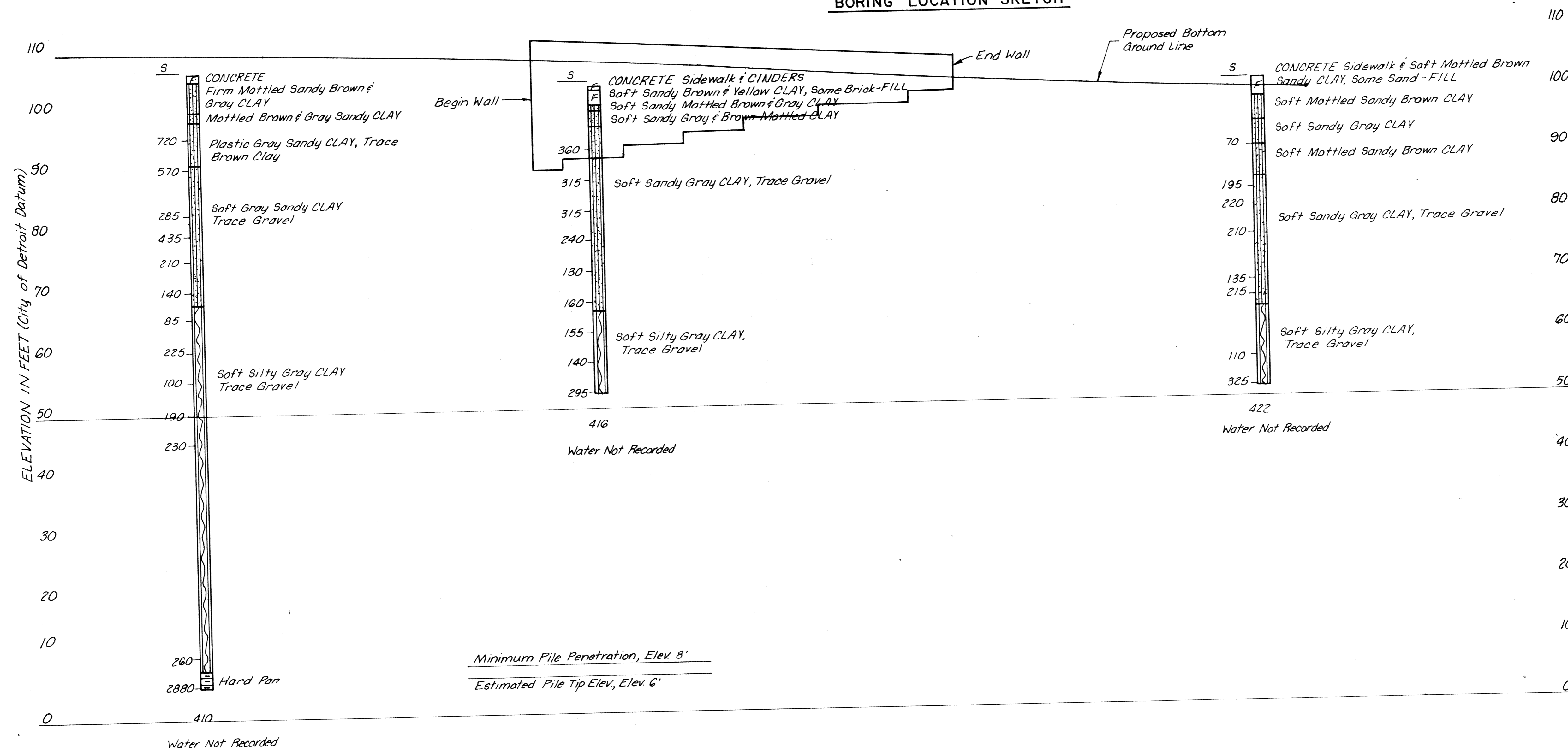
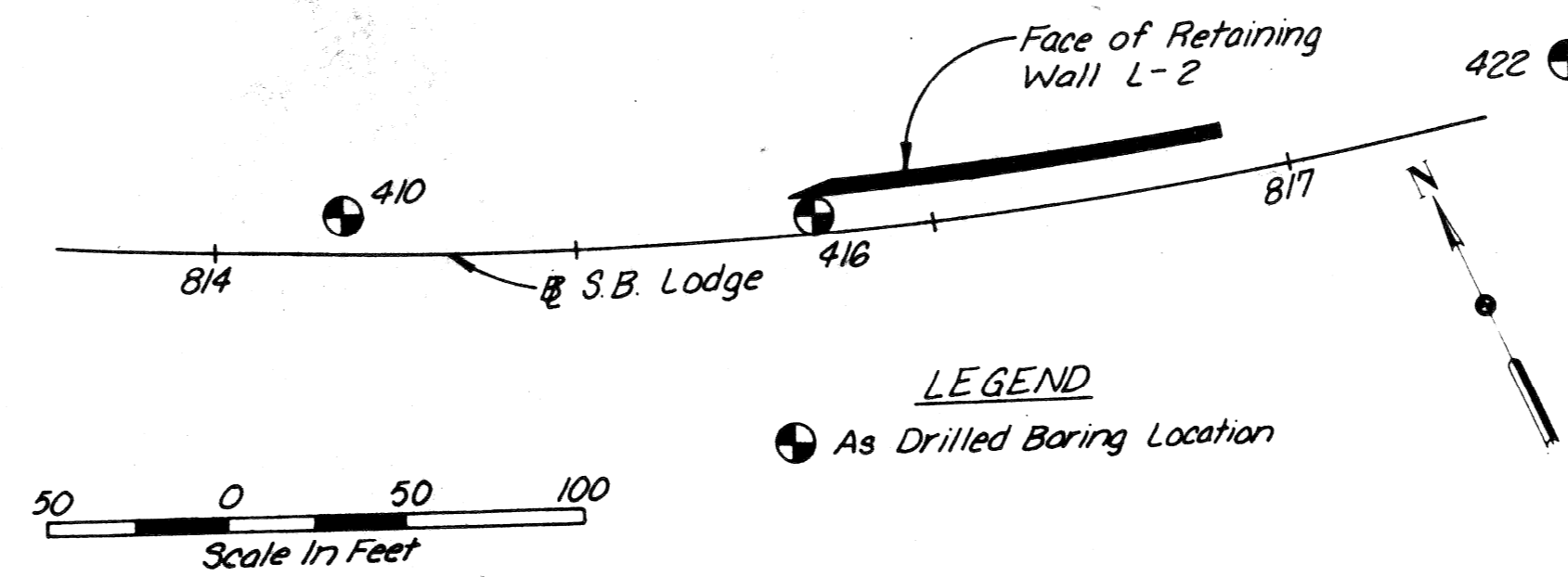
Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

**MICHIGAN DEPARTMENT OF TRANSPORTATION
 RETAINING WALL L-1&L-4 SOIL BORING DATA**

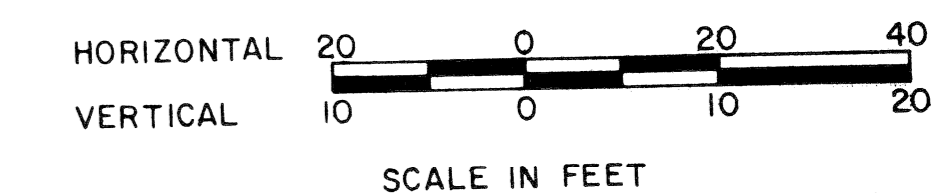
PRELIMINARY PLAN A

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT		
DRAWN BY	CGL	6-86
TRACED BY	SEG	6-86
CHECKED BY	BDJ	7-86
SHEET 10 OF 12		



PROFILE



814

815

816

817

818

SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
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Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

FIELD AND LABORATORY SOIL TEST NOMENCLATURE

- S = Shear value of the soil in pounds per square foot as determined from samples at M.S.H.D. Laboratory, Ann Arbor, Michigan, using the "Housel" method.
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- γ* = Dry density in pounds per cubic foot
- q_u = Unconfined compression in tons per square foot
- N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

NOTE:
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NOTE

Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

RETAINING WALL L-2

SOIL BORING DATA

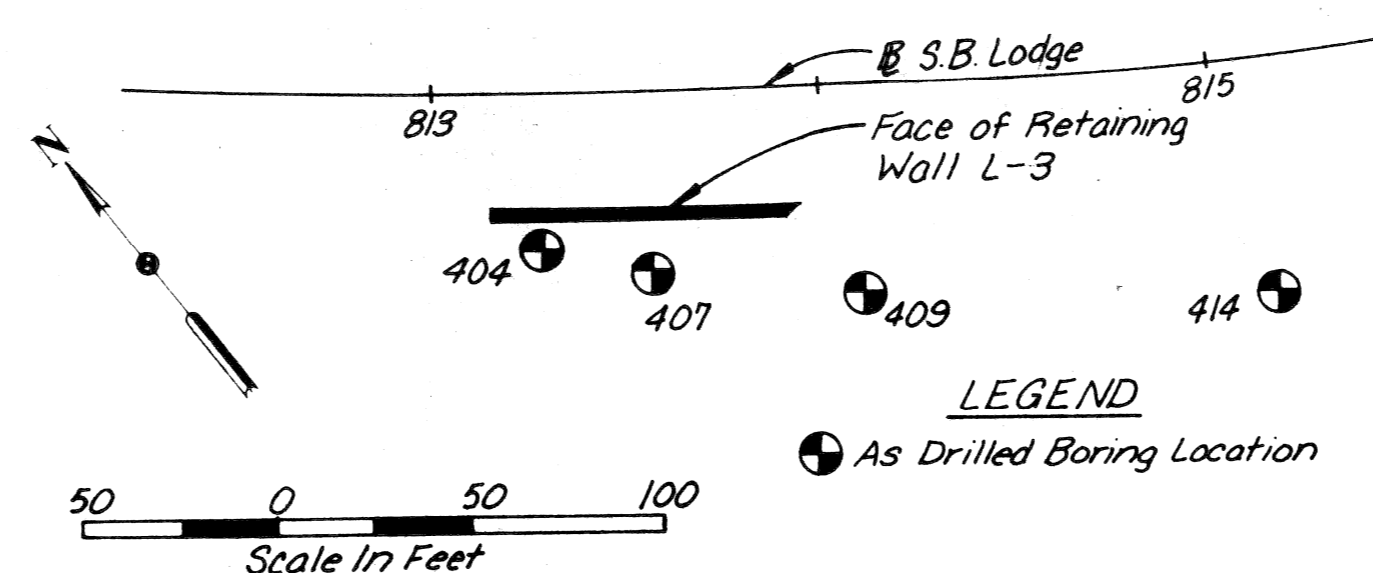
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REVISIONS		
NO.	DESCRIPTION	DATE

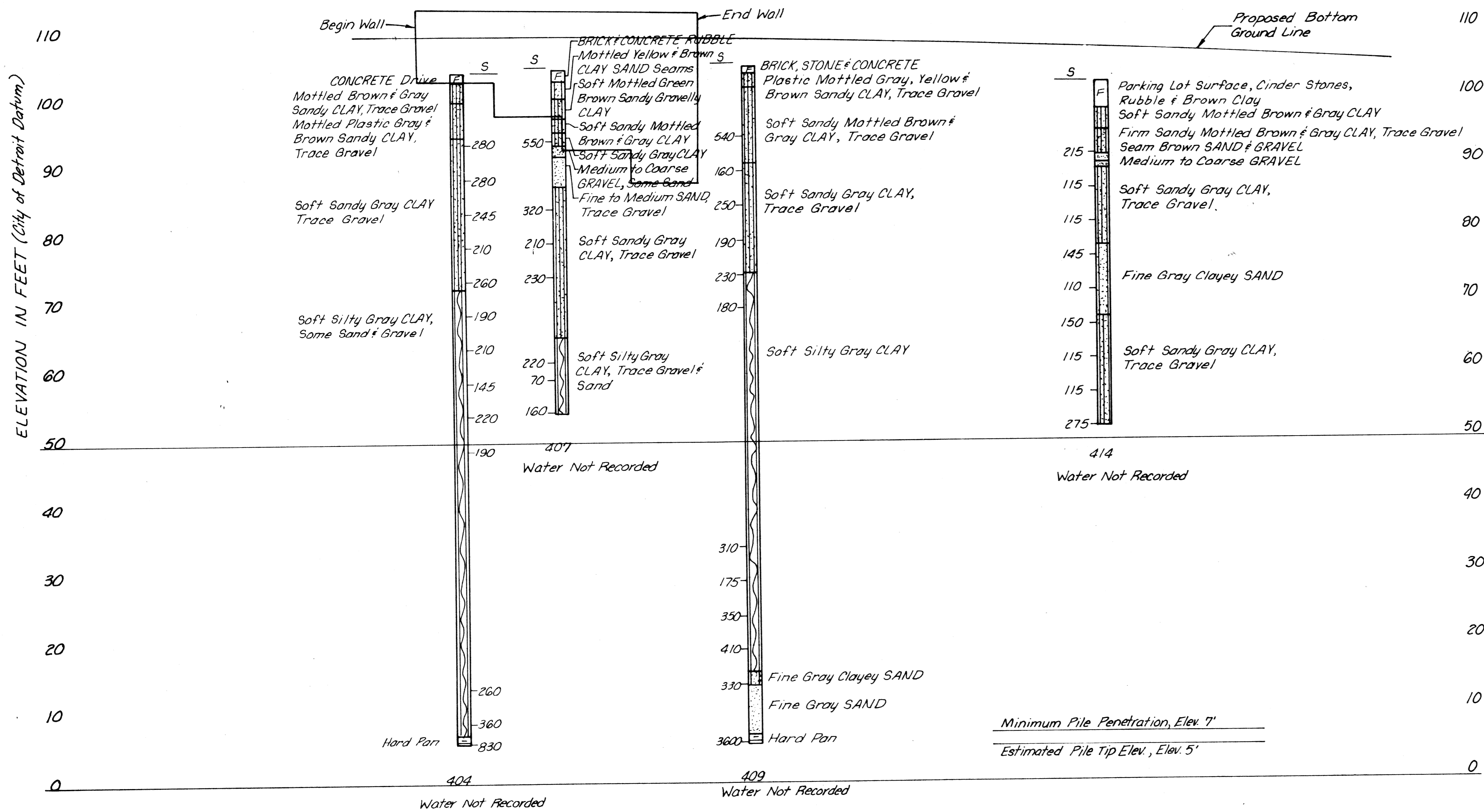
UNIT	DATE
DRAWN BY CGL	6-86
TRACED BY SEG	6-86
CHECKED BY GDT	7-86

SHEET 11 OF 12
 82111

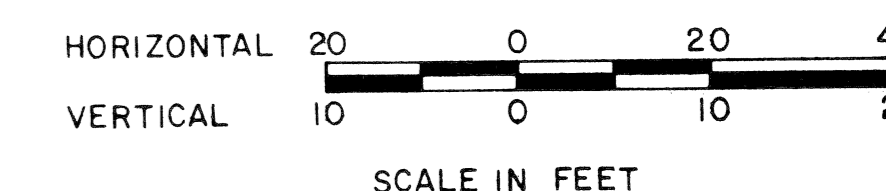
Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



BORING LOCATION SKETCH



PROFILE



SOIL STRENGTH CLASSIFICATION

GRANULAR MATERIAL		COHESIVE MATERIAL	
Classification	Blows Per Foot	Soil Consistency	Shearing Resistance, Lbs. per Sq. Ft.
Very Loose	Less than 4	Very Soft	Less than 100
Loose	4 to 10	Soft	100 to 300
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Very Compact	More than 50	Stiff	700 to 1200
		Hard	1000 to 2000
		Very Hard (Claypan)	Greater than 2000

MATERIALS LEGEND

Fill	Hardpan	Limestone
Clay	Silt	Sand
Silty Clay	Groundwater Level	

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 γ_d = Dry density in pounds per cubic foot
 q_u = Unconfined compression in tons per square foot
 N = Standard penetration resistance - the number of blows of a 140 lb. hammer falling 30" required to drive a 2" O.D. split barrel sampler 12". Penetration of less than 12" is shown 50/2" - blows/penetration.

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NOTE

Additional and/or more detailed boring and test data may be available for review in M.D.O.T. District Office, Southfield, Michigan.

MICHIGAN DEPARTMENT OF TRANSPORTATION

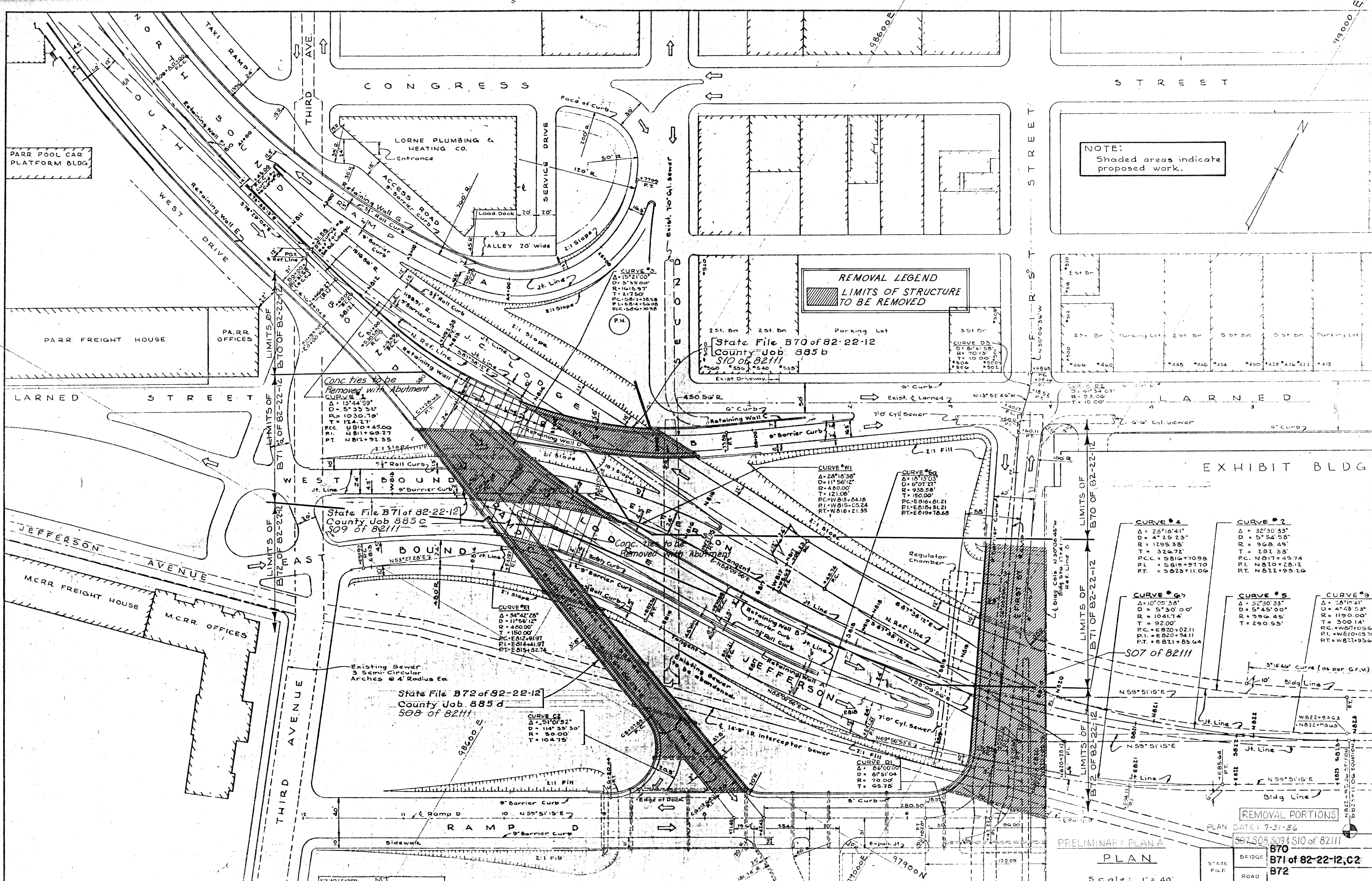
RETAINING WALL L-3 SOIL BORING DATA

PRELIMINARY PLAN A

REVISIONS			
NO.	DESCRIPTION	DATE	BY

UNIT	CGL	6-86
DRAWN BY	SEB	6-86
TRACED BY	GDJ	7-86
CHECKED BY		
SHEET 12 OF 12		
82111		

Ref. "Field Manual of Soil Engineering" Fifth Edition, Jan. 1970, by Michigan Department of State Highways.



REVISIONS	DRAWN BY M. J. Penn	CHECKED BY R. J. Bickett	DATE 6-15-84	APPROVED <i>R. N. Stropin</i> ENGINEER OF BRIDGES AND STRUCTURES
	CORRECT <i>S. Libby</i>			APPROVED <i>W. J. ...</i> COUNTY HIGHWAY ENGINEER

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 WILLIAM E. KRECHER

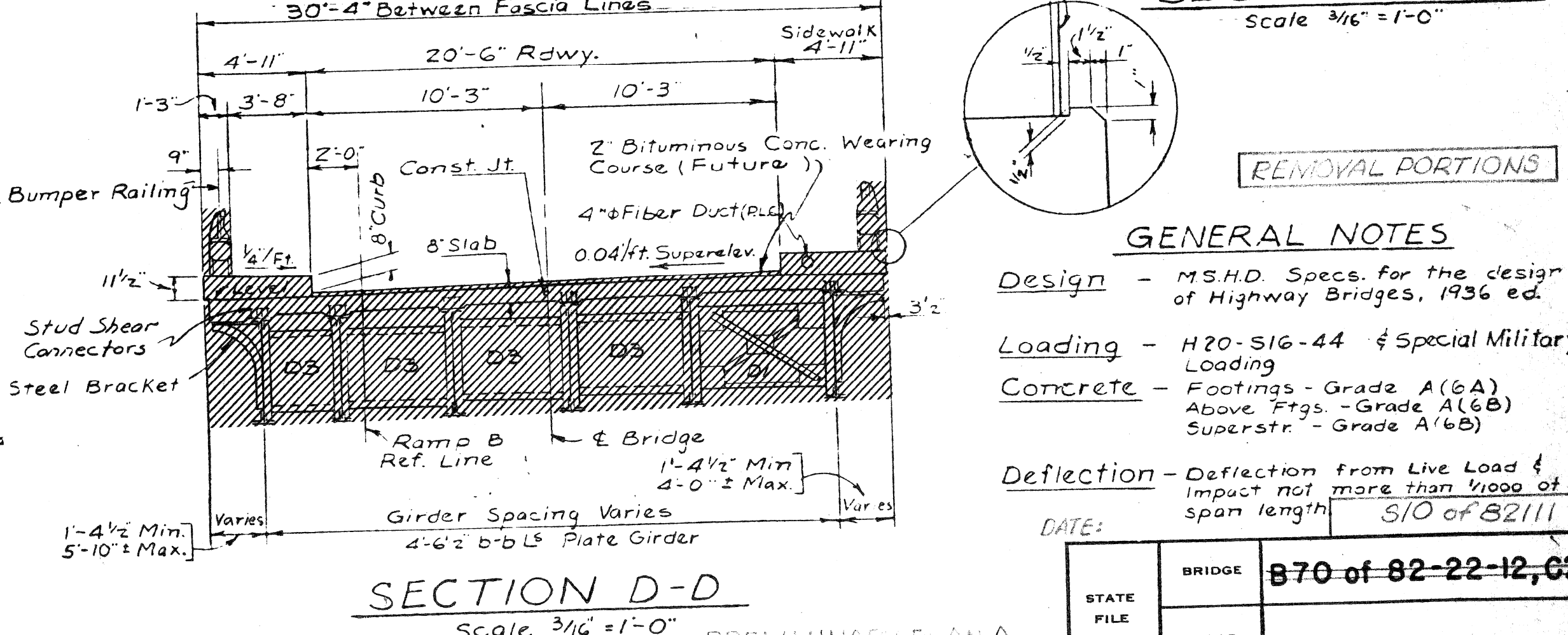
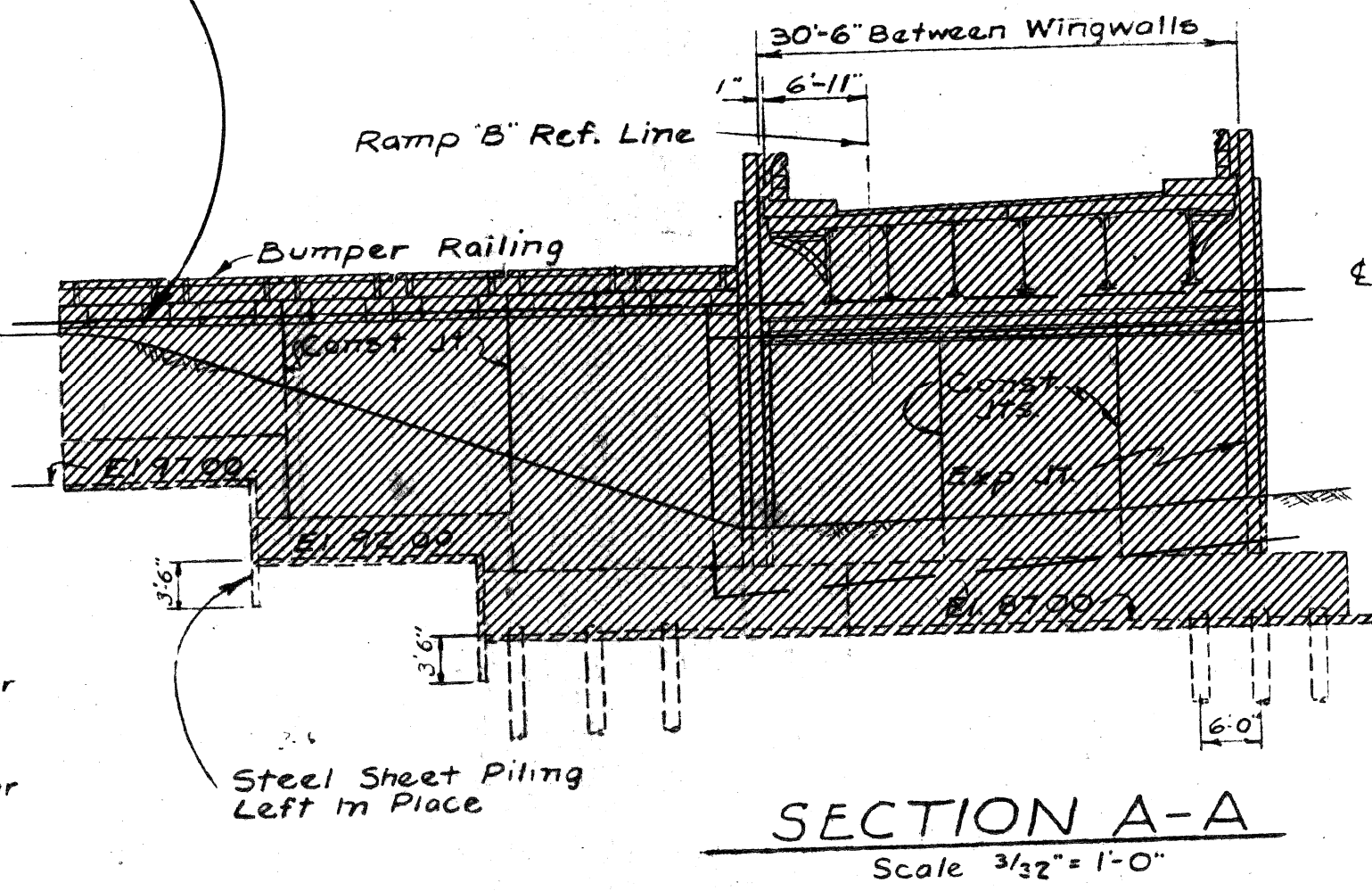
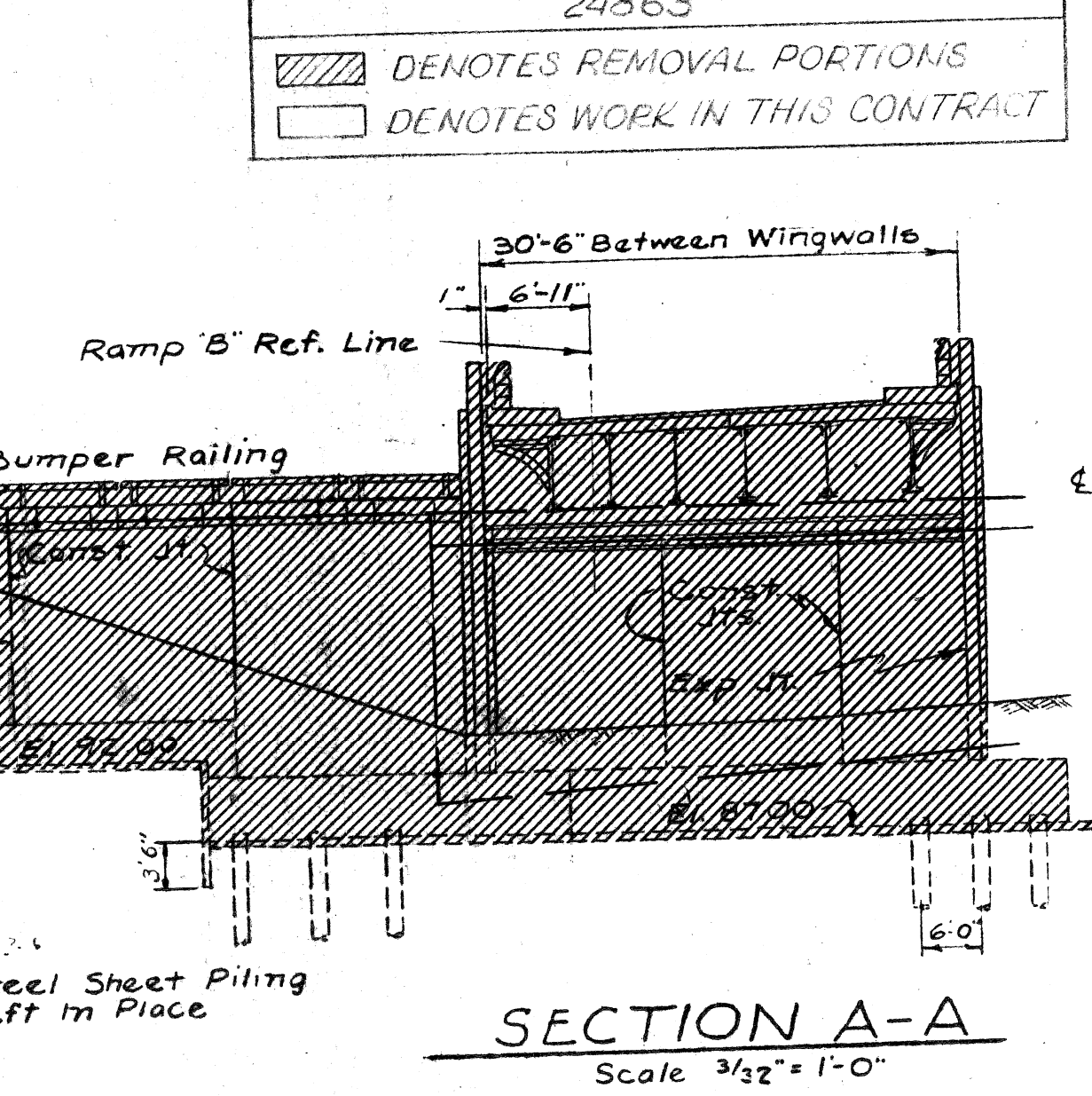
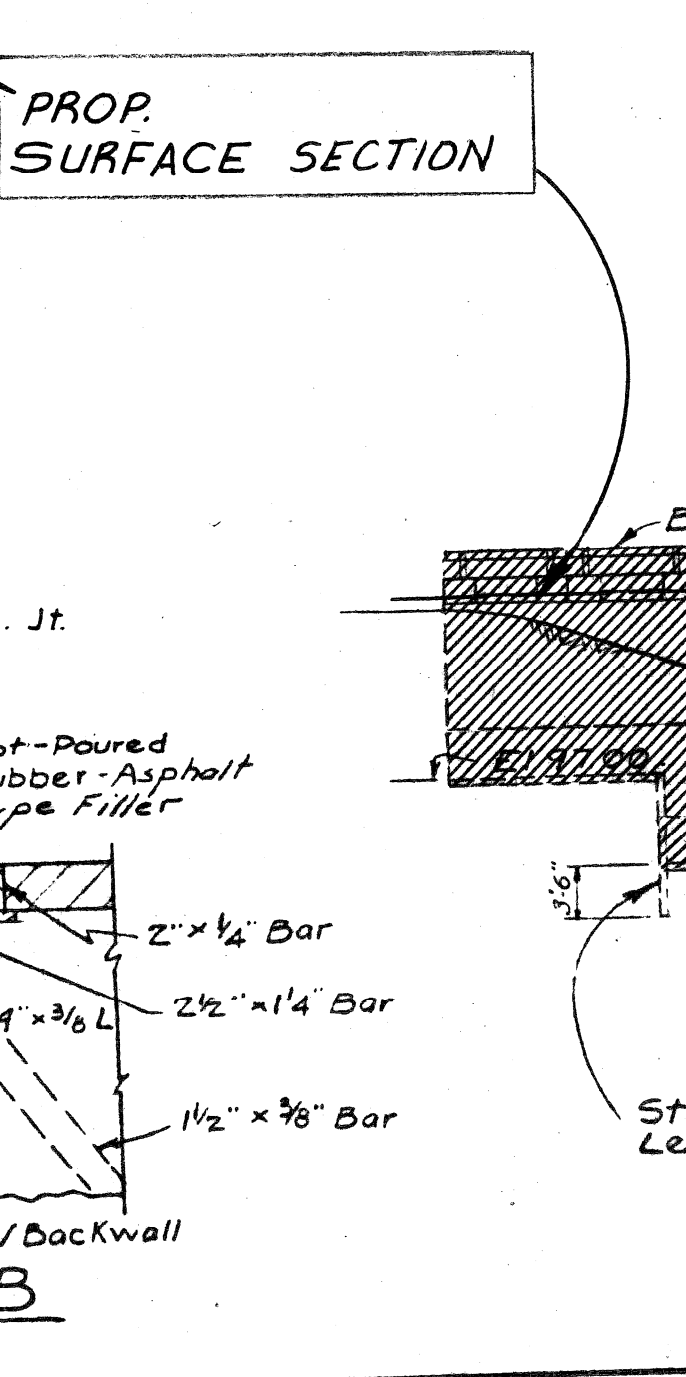
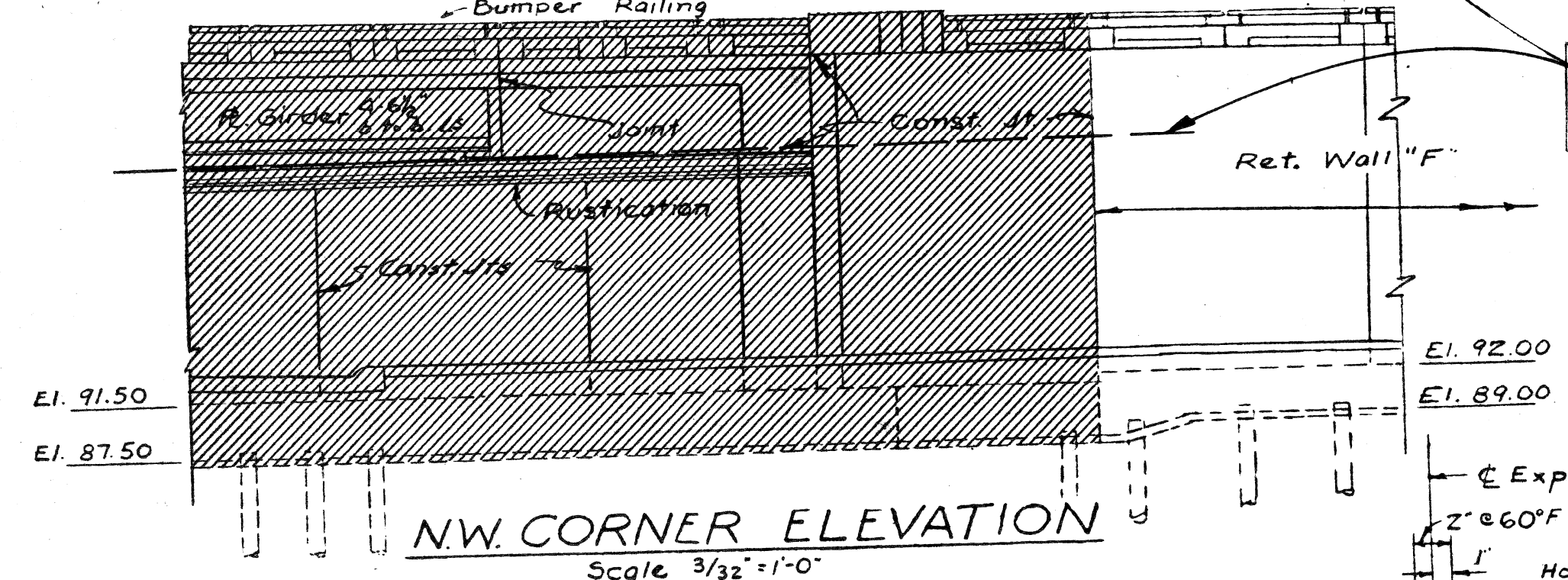
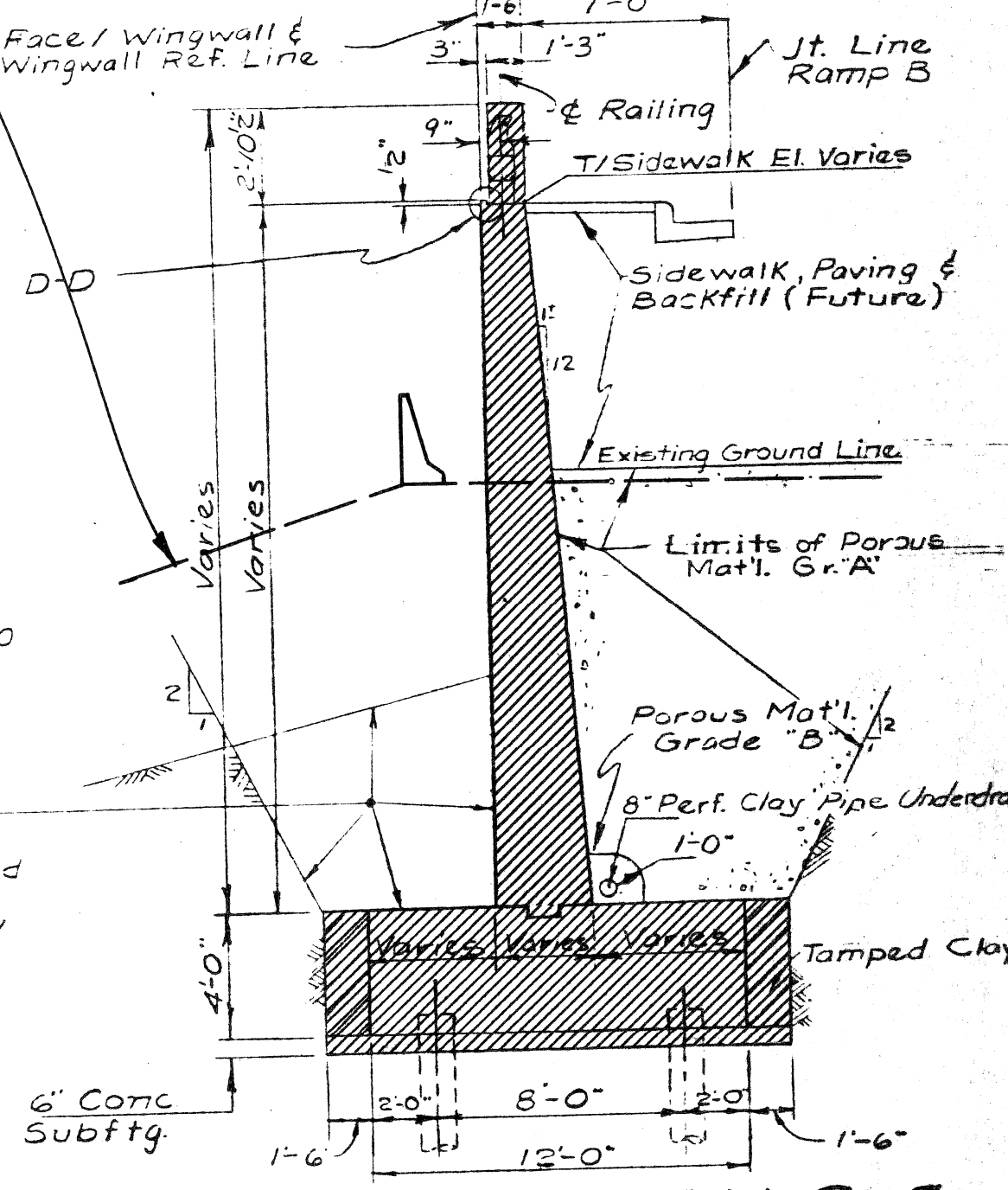
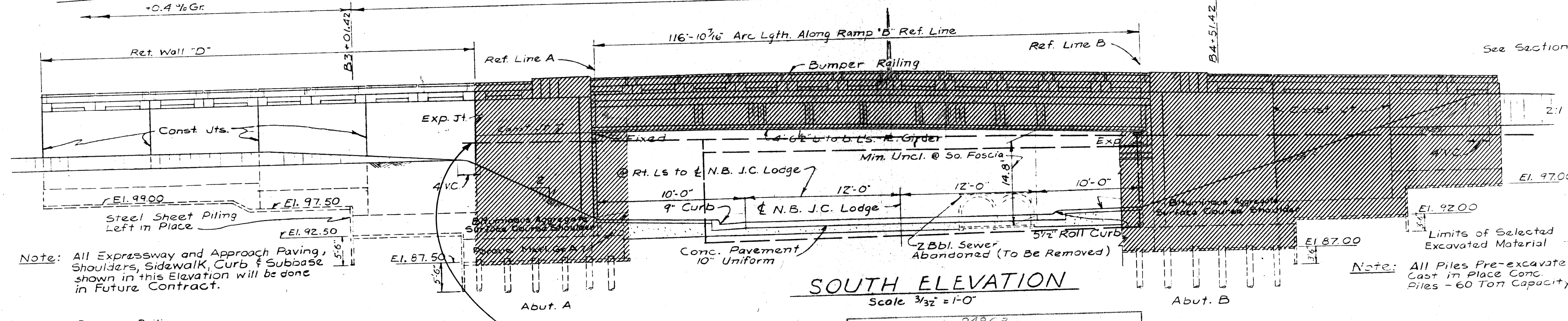
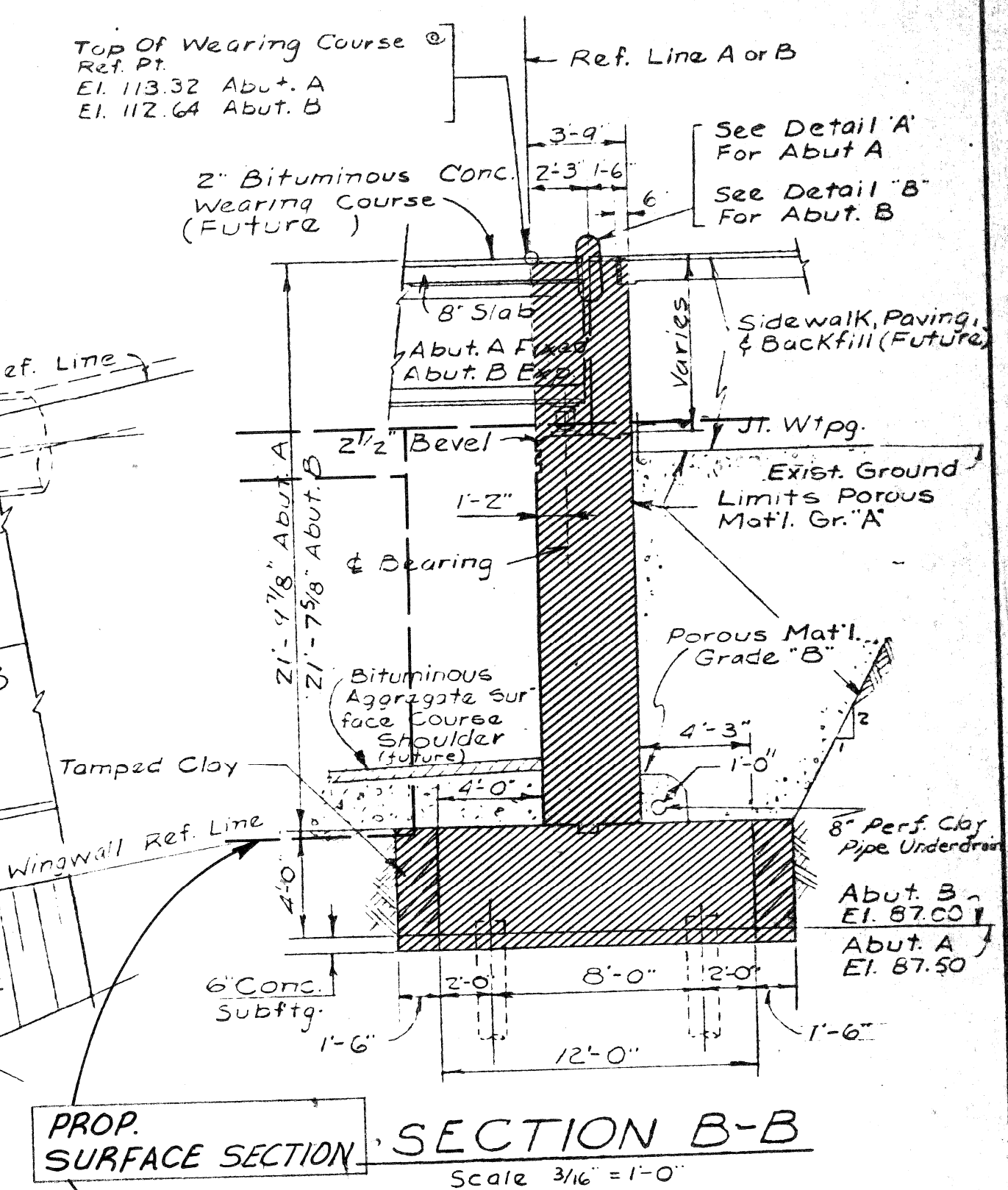
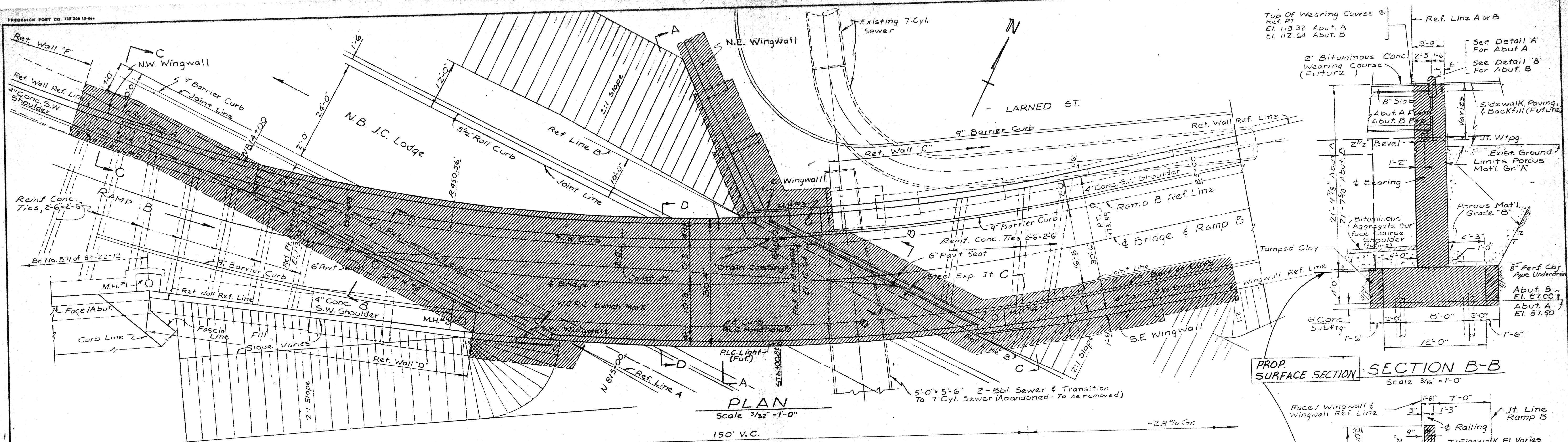
JOHN C. LODGE EXPRESSWAY
 CIVIC CENTER AREA
 RAMP B, SOUTHBOUND LODGE, & RAMP C BRIDGES
 GENERAL PLAN OF PROJECT

STATE PROJECT
 82-127

COUNTY JOB
 885b,c,d

DATE
 12-7-87

SHEET NO.
 3 of 7



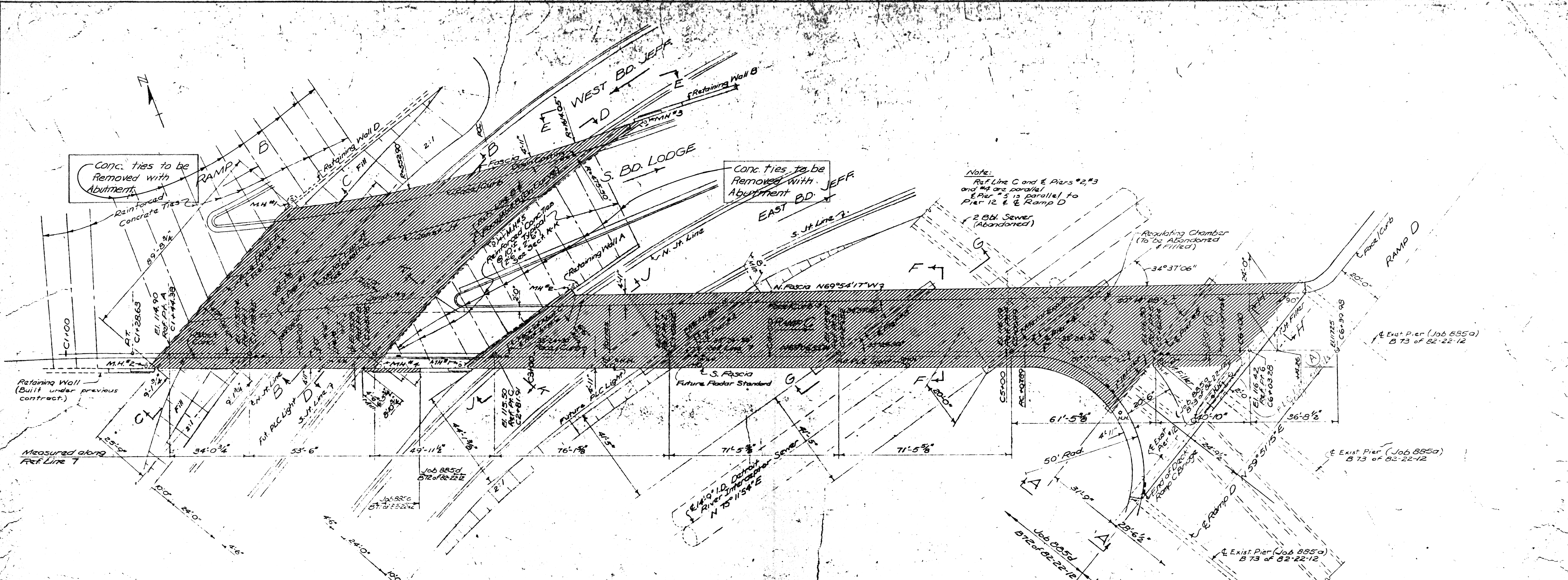
GENERAL NOTES
Design - M.S.H.D. Specs. for the design of Highway Bridges, 1936 ed.
Loading - H20-S16-44 & Special Military Loading
Concrete - Footings - Grade A(6A) Above Frgs. - Grade A(6B) Superstr. - Grade A(6C)
Deflection - Deflection from Live Load & impact not more than 1/800 of span length. SIO of B2111

Table with 4 columns: STATE PROJECT (82-127), COUNTY JOB (895b), SHEET NO. (15 of 17), DATE (12-6-57)

Table with columns: REVISIONS, DRAWN BY (WIDRIG), CHECKED BY (R. BEALEY), TRACED BY (R. RINGEL), CORRECT, APPROVED (S. Lipsitz), DATE (3-13-56)

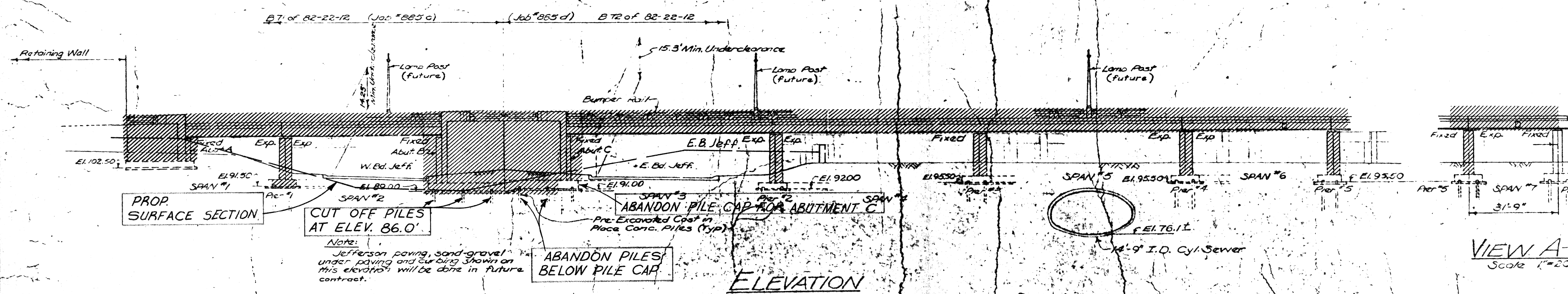
WAYNE COUNTY ROAD COMMISSIONERS BOARD OF DETROIT, MICHIGAN

JOHN C. LODGE EXPRESSWAY CIVIC CENTER AREA RAMP B BRIDGE GENERAL PLAN OF STRUCTURE

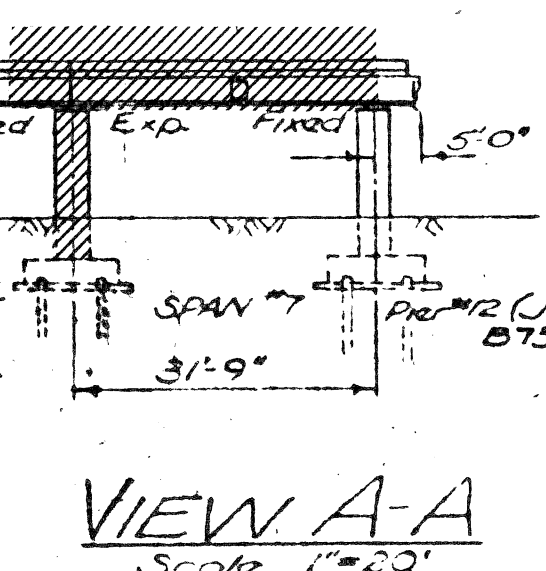


PLAN
Scale 1"=20'

GENERAL NOTES
 Design Specifications: MSHD Specifications for the Design of Highway Bridges, 1936 Edition. Deflection from Live Load and Impact not more than 1/600 of the span length.
 Loading: H20-S16-44 & Special Military Loading
 Concrete: Footings: Grade A (6A)
 Above Footings: Grade A (6B)
 Superstructure: Grade A (6B)
 Concrete Pile: Pre-excavated cast in place. Capacity - 60 Tons.



ELEVATION
Scale 1"=20'



VIEW A-A
Scale 1"=20'

24863
 DENOTES REMOVAL PORTIONS
 DENOTES WORK IN THIS CONTRACT

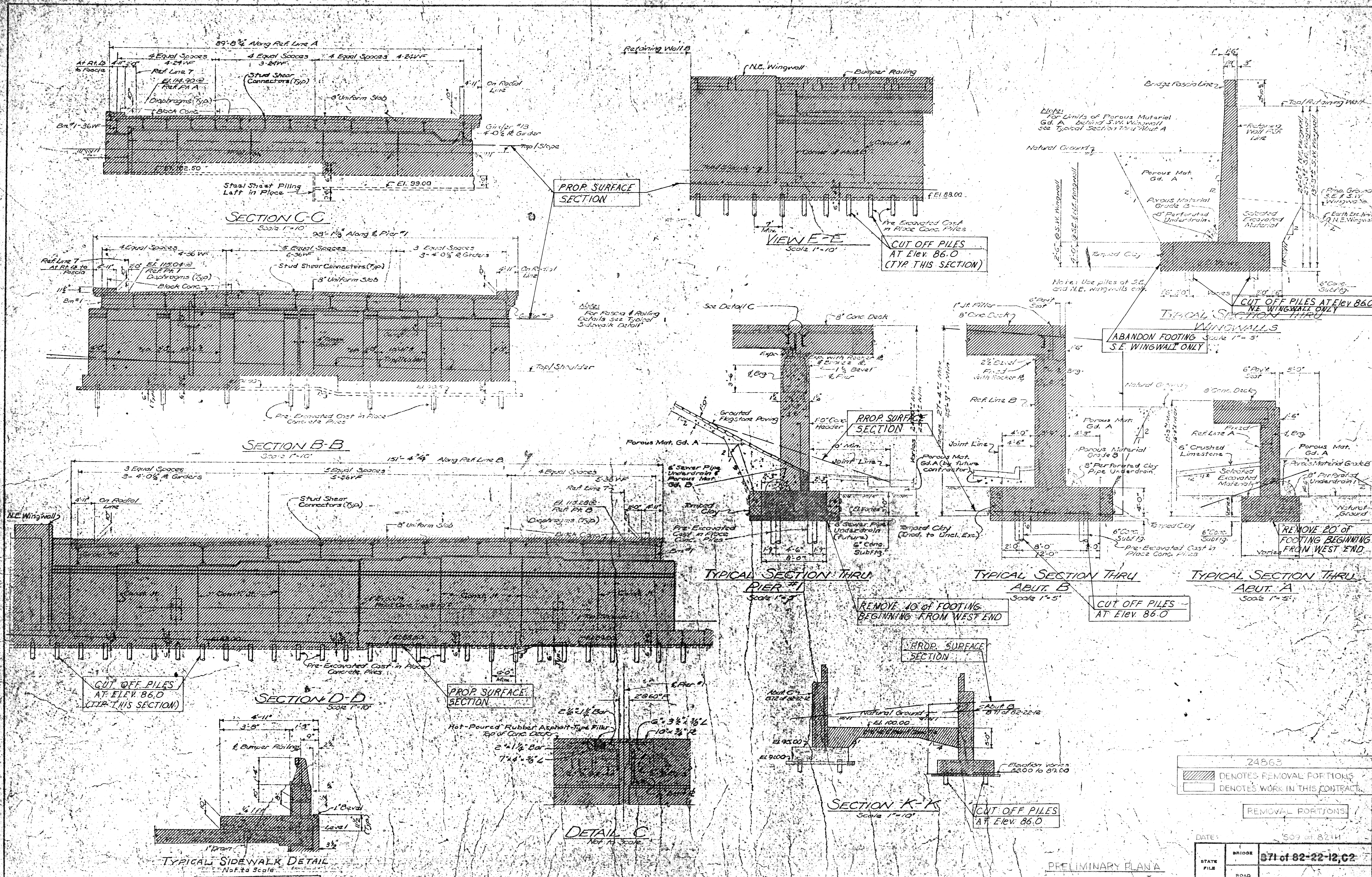
DATE:	SOS # 50936 82111		
STATE FILE	BRIDGE	871 & 72 of 82-22-12C2	
	ROAD		

Rev. P.L.C. Lights 5-26-58 MT VFW

REVISIONS	DRAWN BY	CHECKED BY	DATE	APPROVED
1	Cummins	Beckley	4-9-56	[Signature]
2	[Signature]	[Signature]		[Signature]

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 WILLIAM E. KREGG
 MICHAEL J. O'BRIEN
 CHARLES L. WILSON

PRELIMINARY PLAN
 Work this Sheet with SAs #42443
JOHN C. LODGE EXPRESSWAY
 CIVIC CENTER AREA
 SOUTHBOUND LODGE & RAMP C BRIDGES
 GENERAL PLAN OF STRUCTURE
 STATE PROJECT: 82-127
 COUNTY JOB: 885c86
 ISSUE NO. 3
 DATE: 12-6-57
 SHEET NO. 41



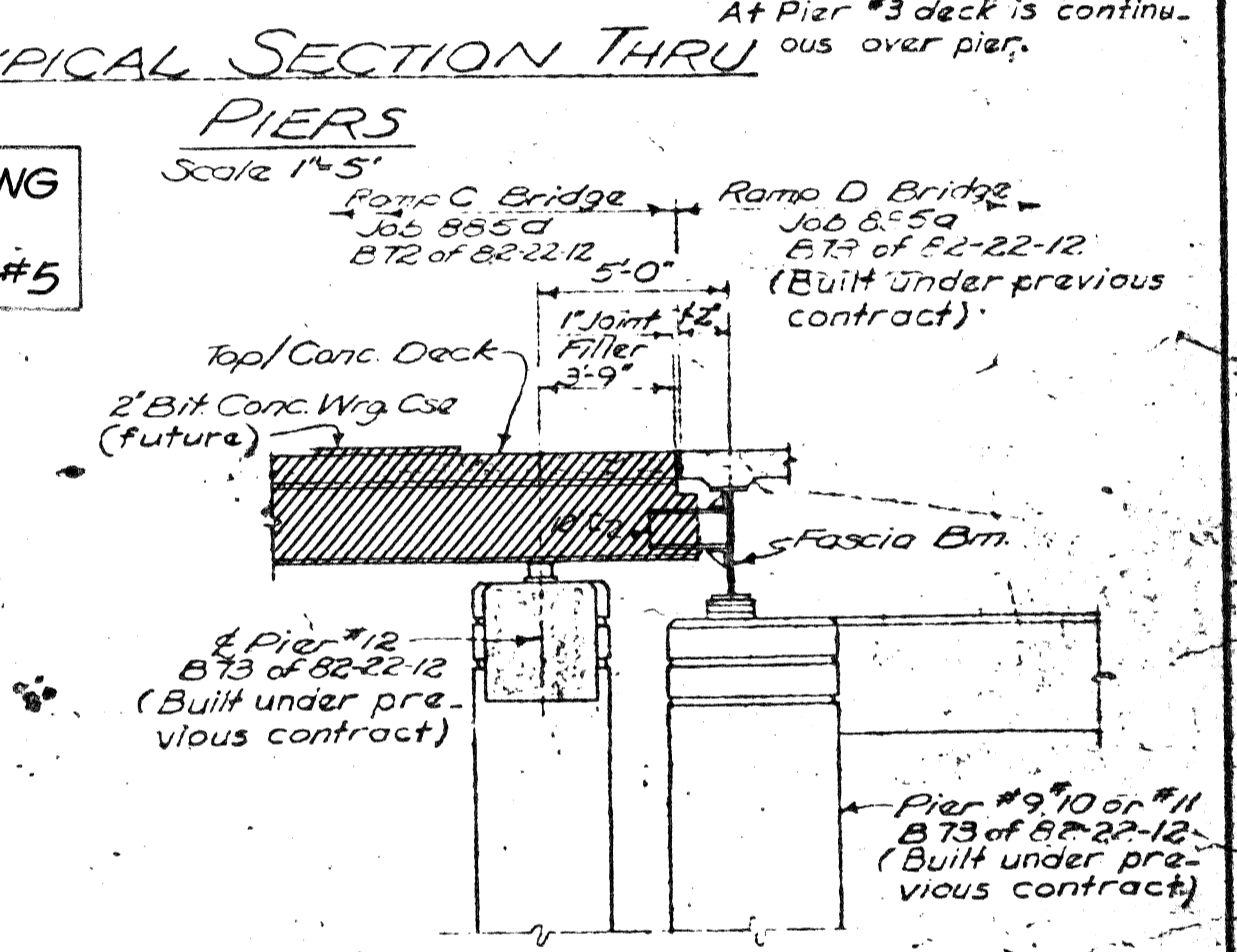
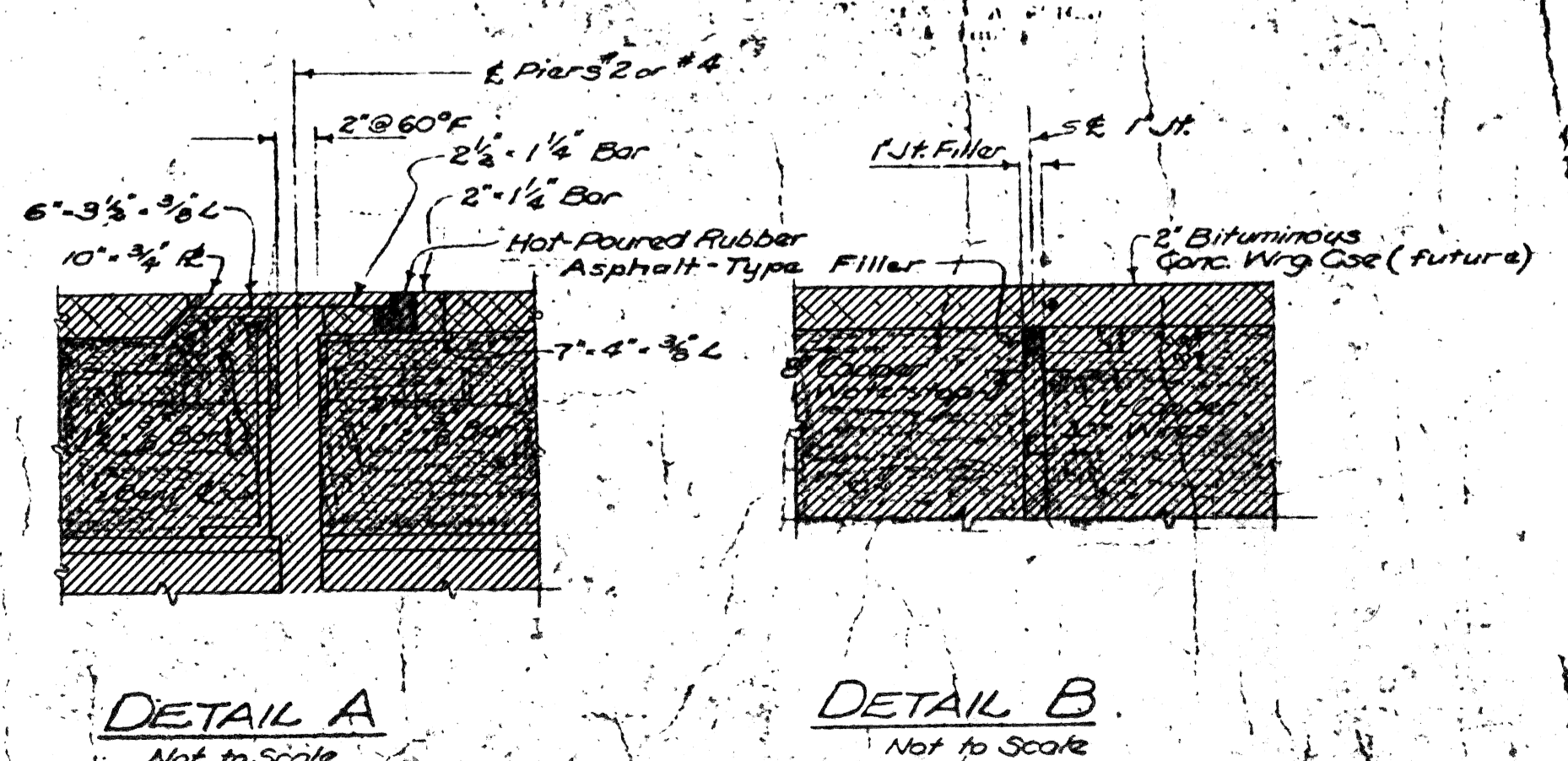
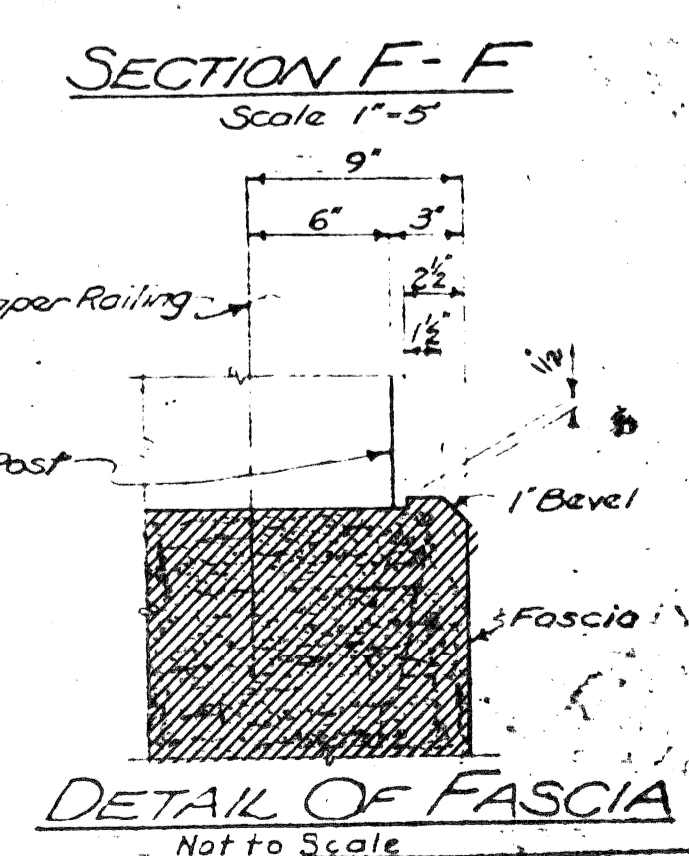
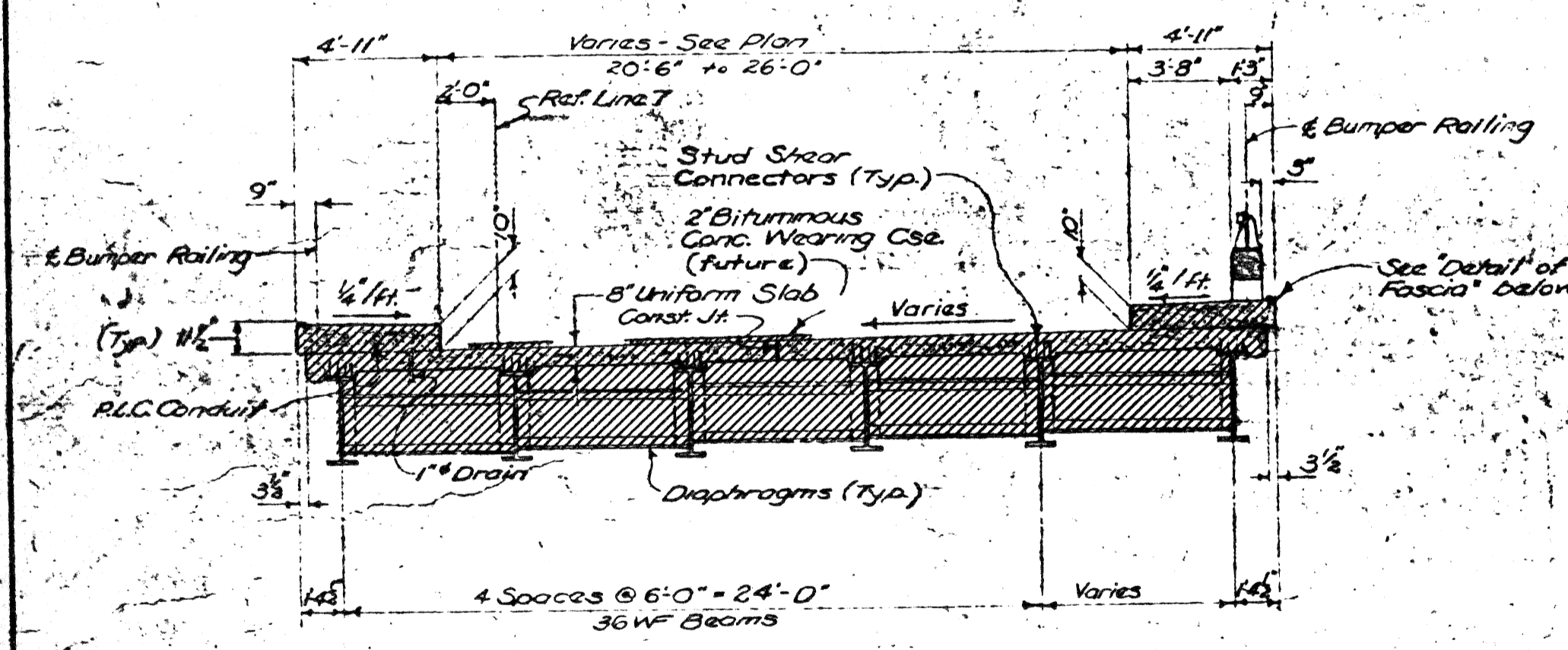
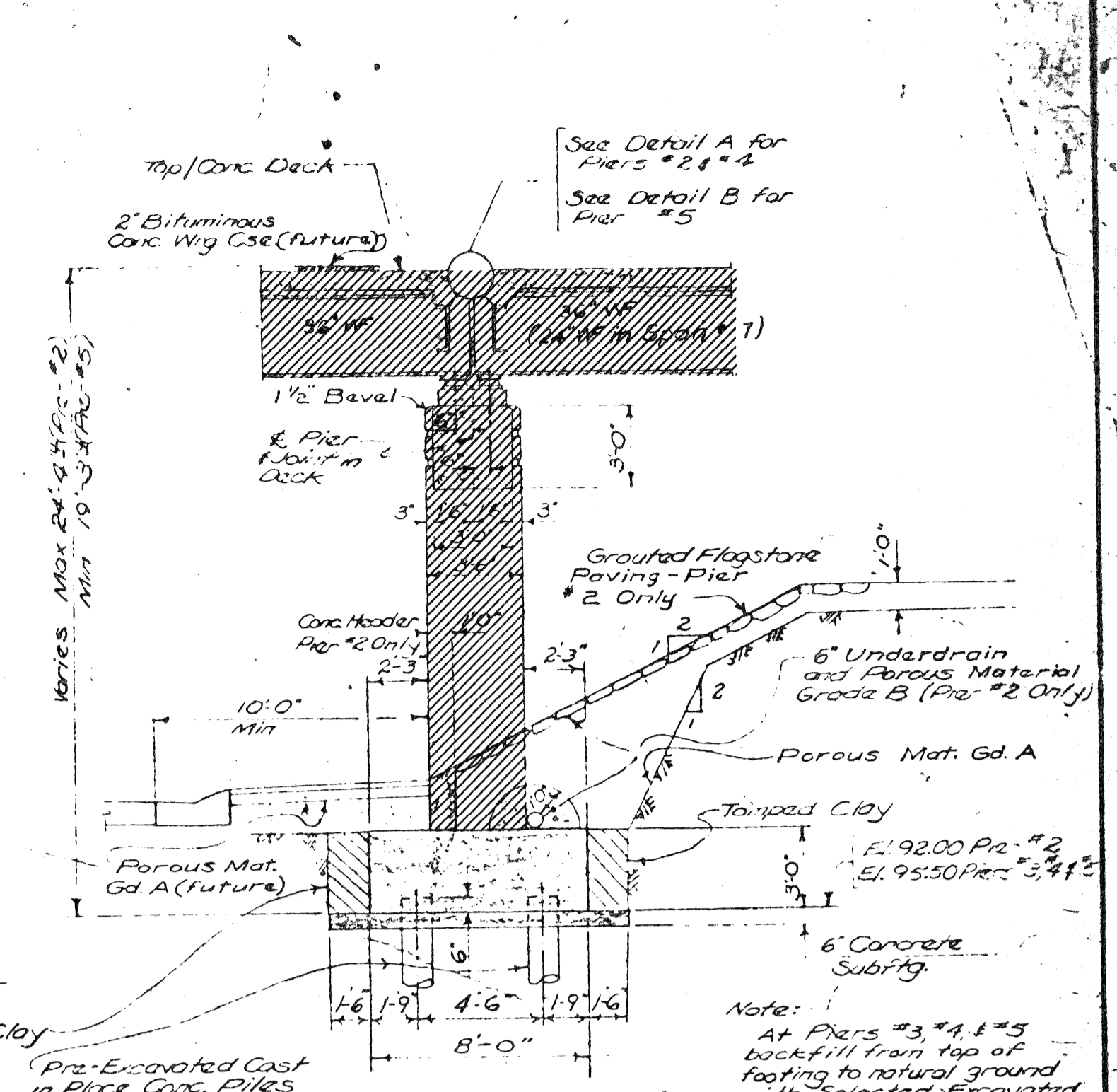
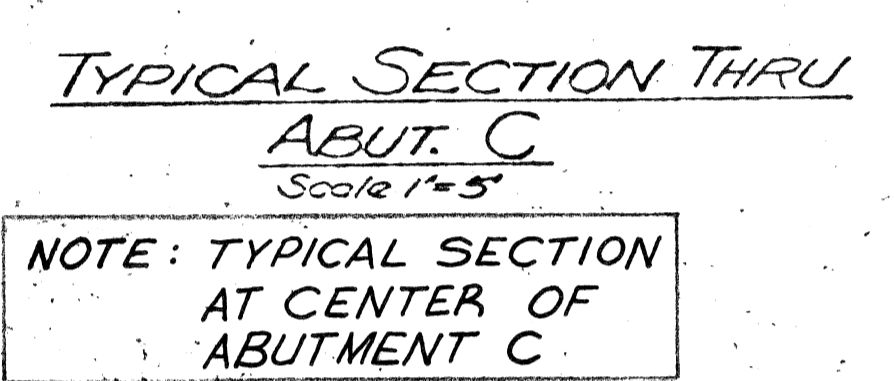
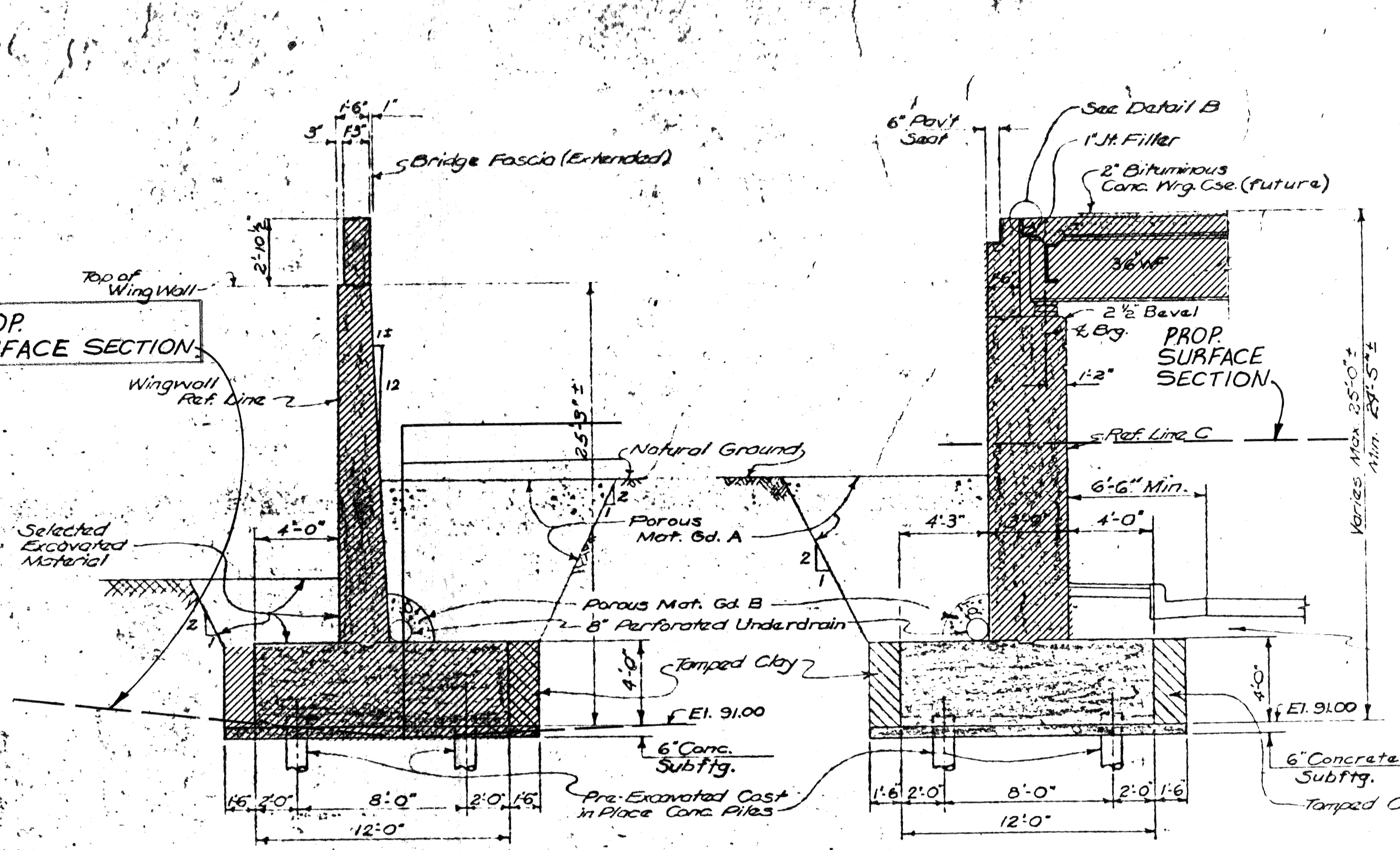
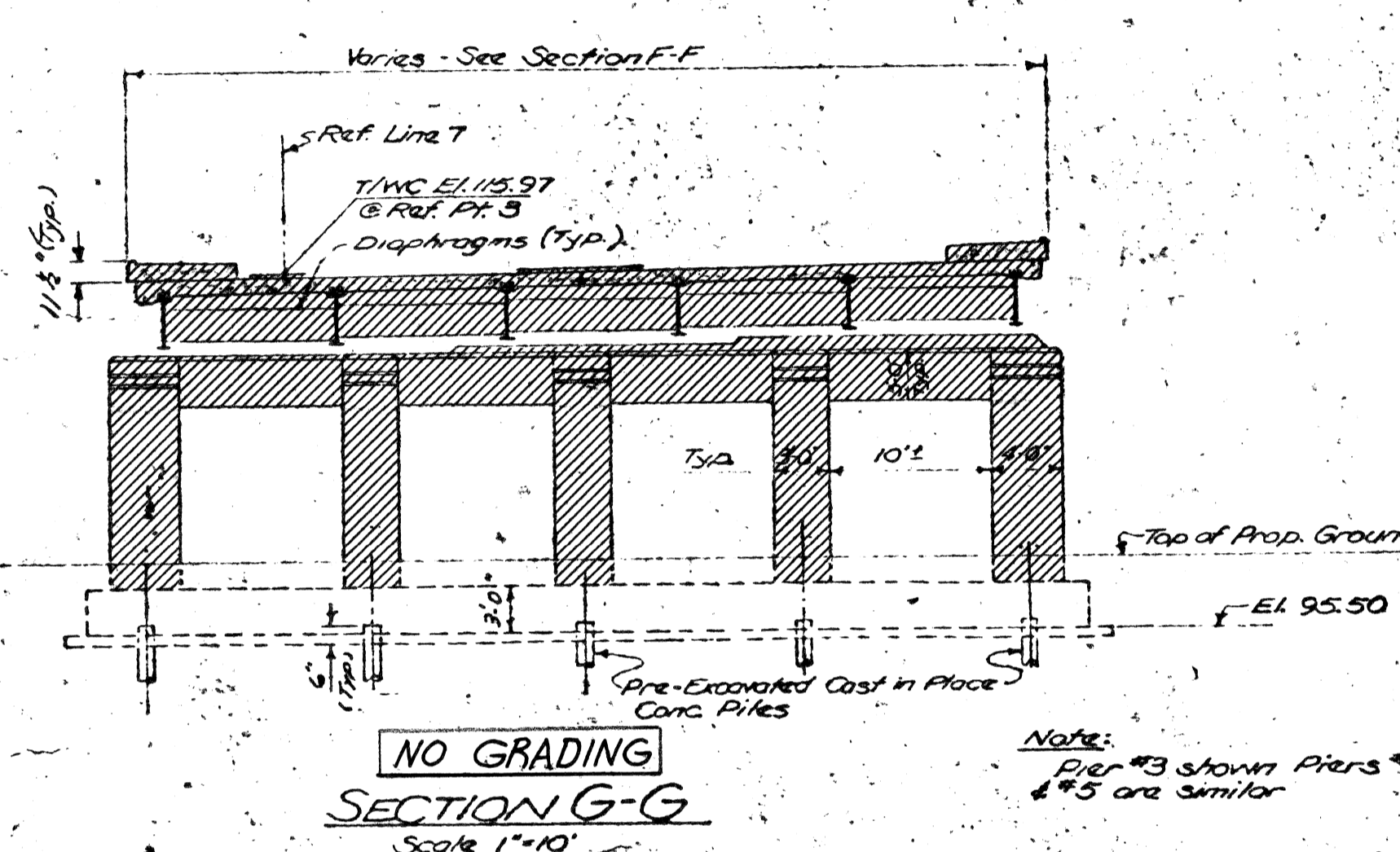
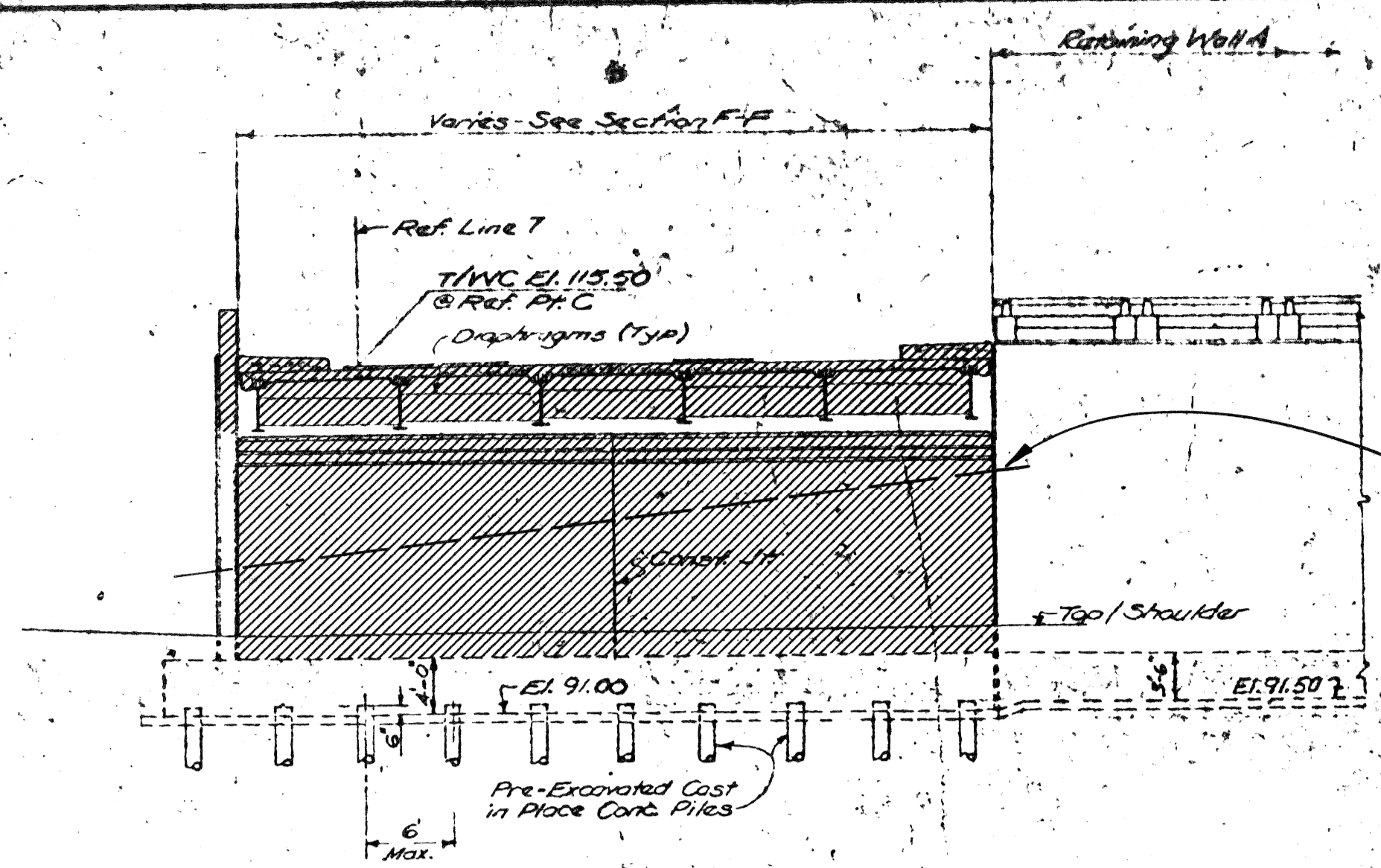
24863
 DENOTES REMOVAL PORTIONS
 DENOTES WORK IN THIS CONTRACT

DATE: 5-29-54
 STATE PROJECT: 92-127
 COUNTY JOB: 935a
 SHEET NO.: 4 of 7
 24863

REVISIONS	DRAWN BY	CHECKED BY	DATE	APPROVED
1. Revised Typical Wingwall Section, 5/16/54, P. 212	Commins	Bellamy	6-22-56	[Signature]
2. Revised Abut. B Footing w/ 4th Floor, 5/16/54, P. 212				

WAYNE COUNTY ROAD COMMISSIONERS
 BOARD OF
 DETROIT, MICHIGAN
 WILLIAM F. KNEGER

PRELIMINARY PLAN A
 JOHN C. LODGE EXPRESSWAY
 CIVIC CENTER AREA
 SOUTHWIND LODGE BRIDGE
 GENERAL PLAN OF STATE BRIDGE (CONTD)



24863
 DENOTES REMOVAL PORTIONS
 DENOTES WORK IN THIS CONTRACT

REMOVAL PORTIONS

DATE: 508 of 82111

PRELIMINARY PLAN A

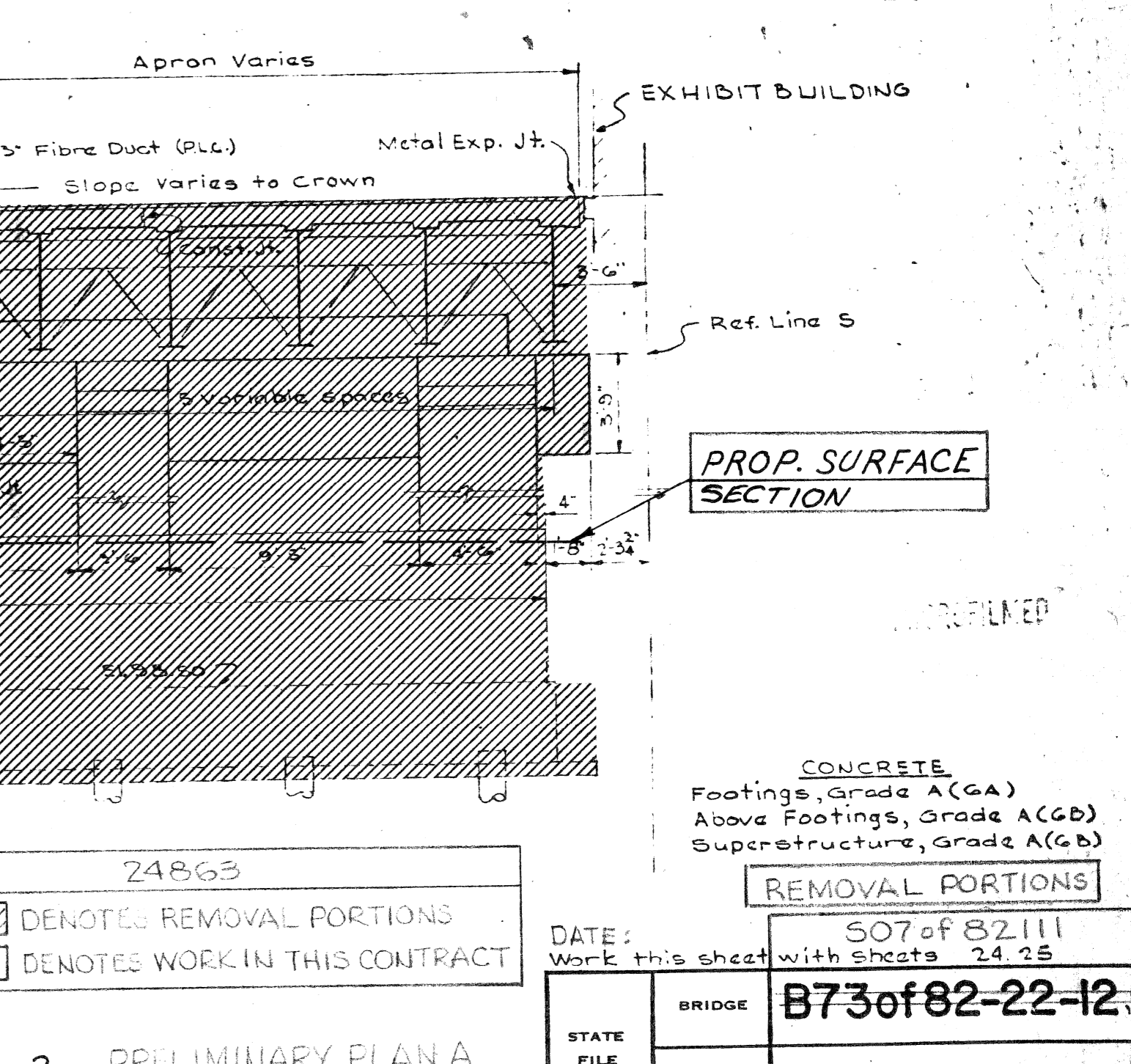
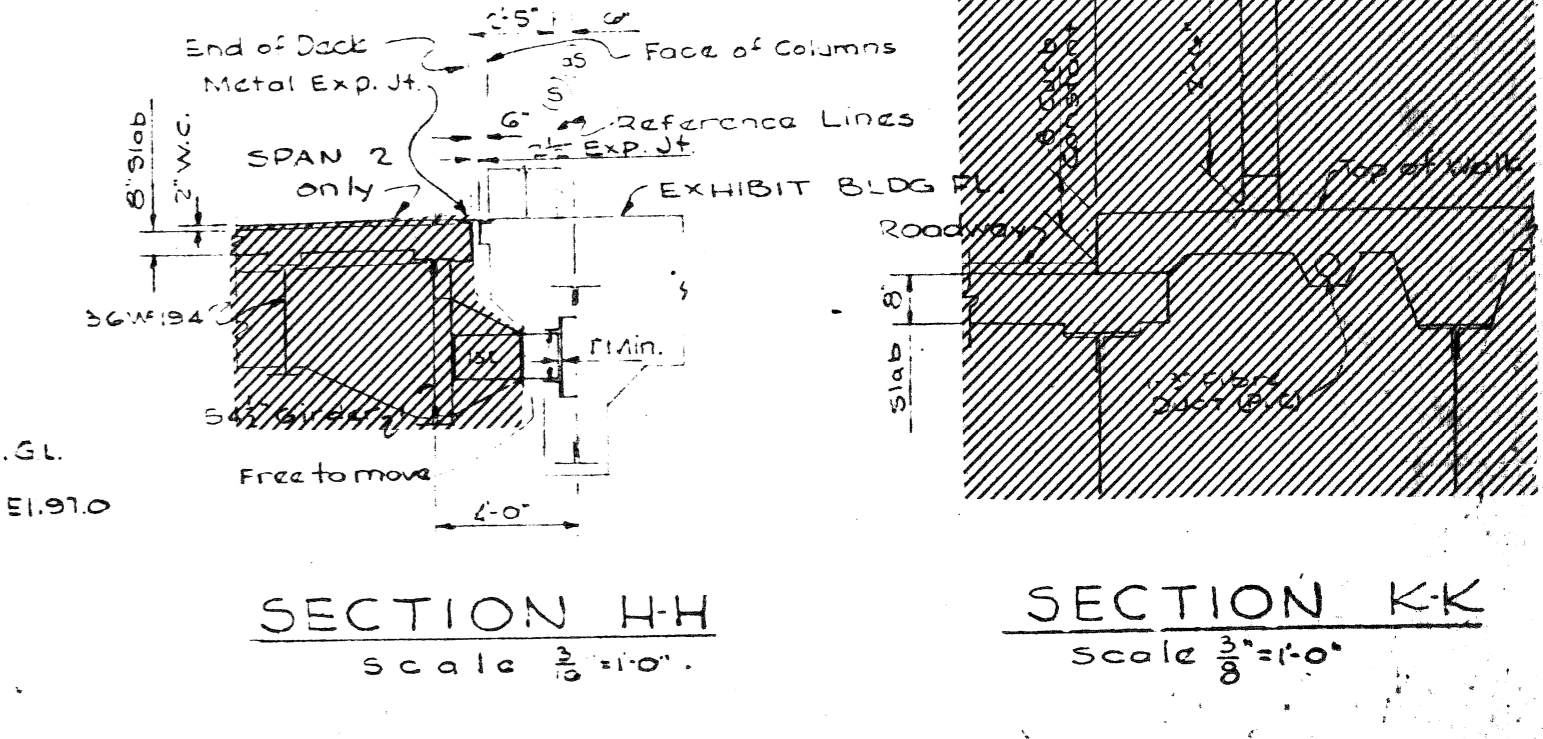
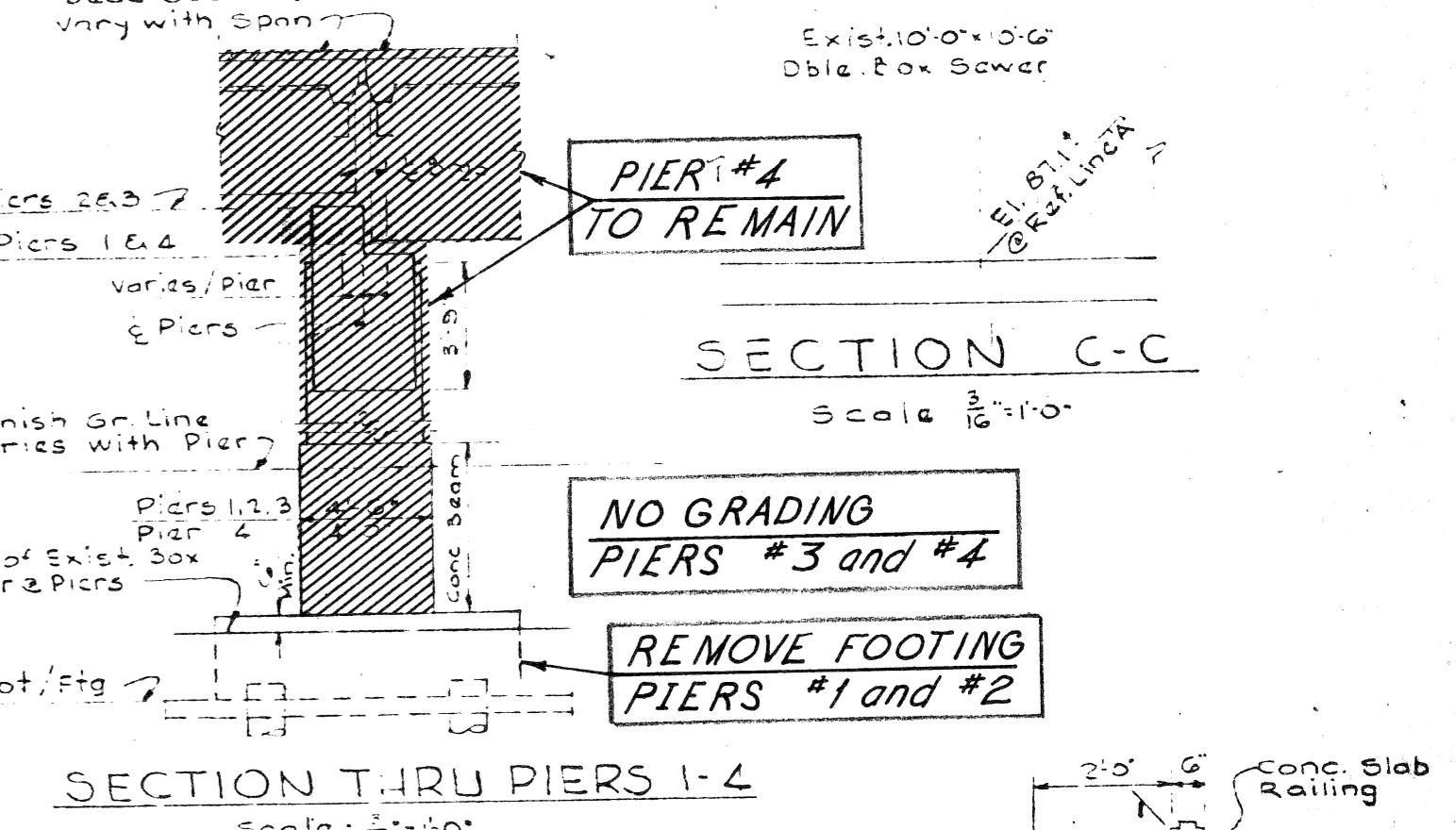
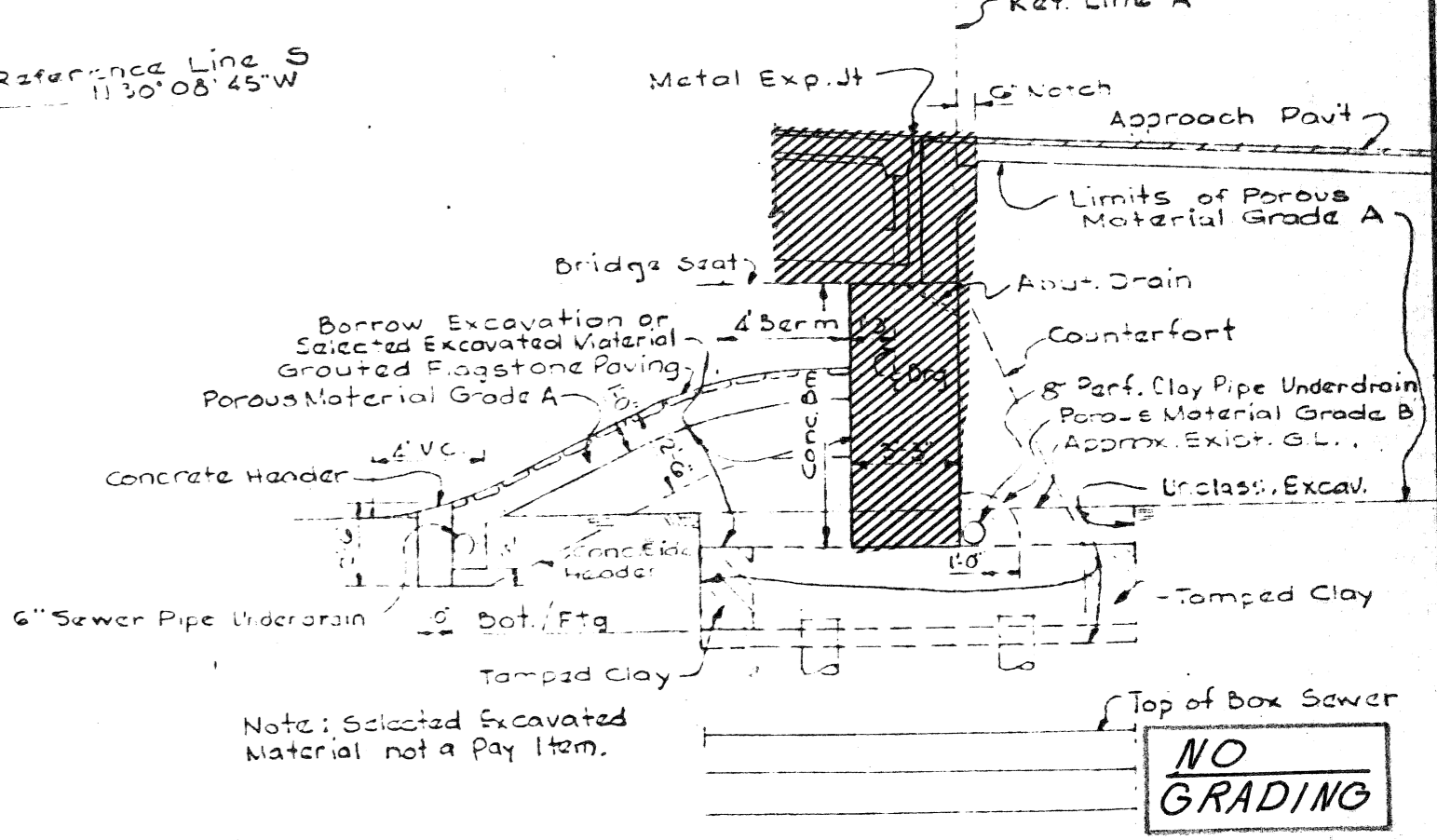
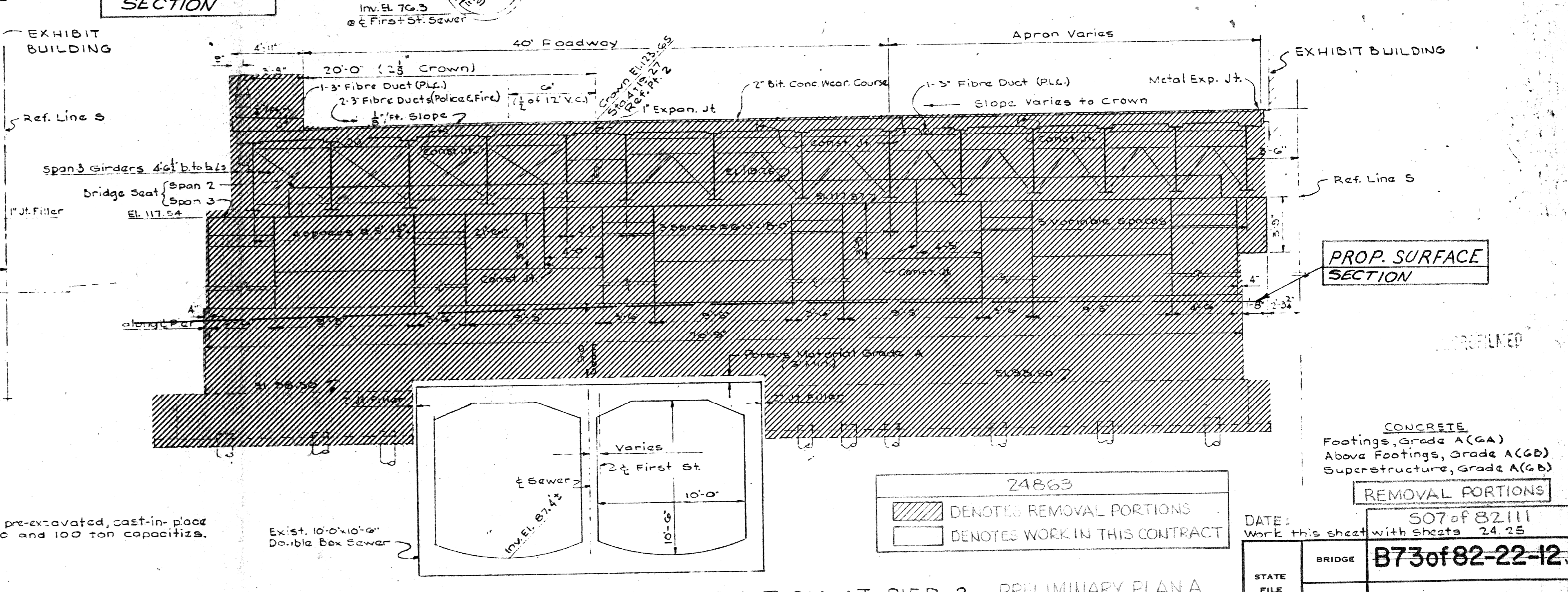
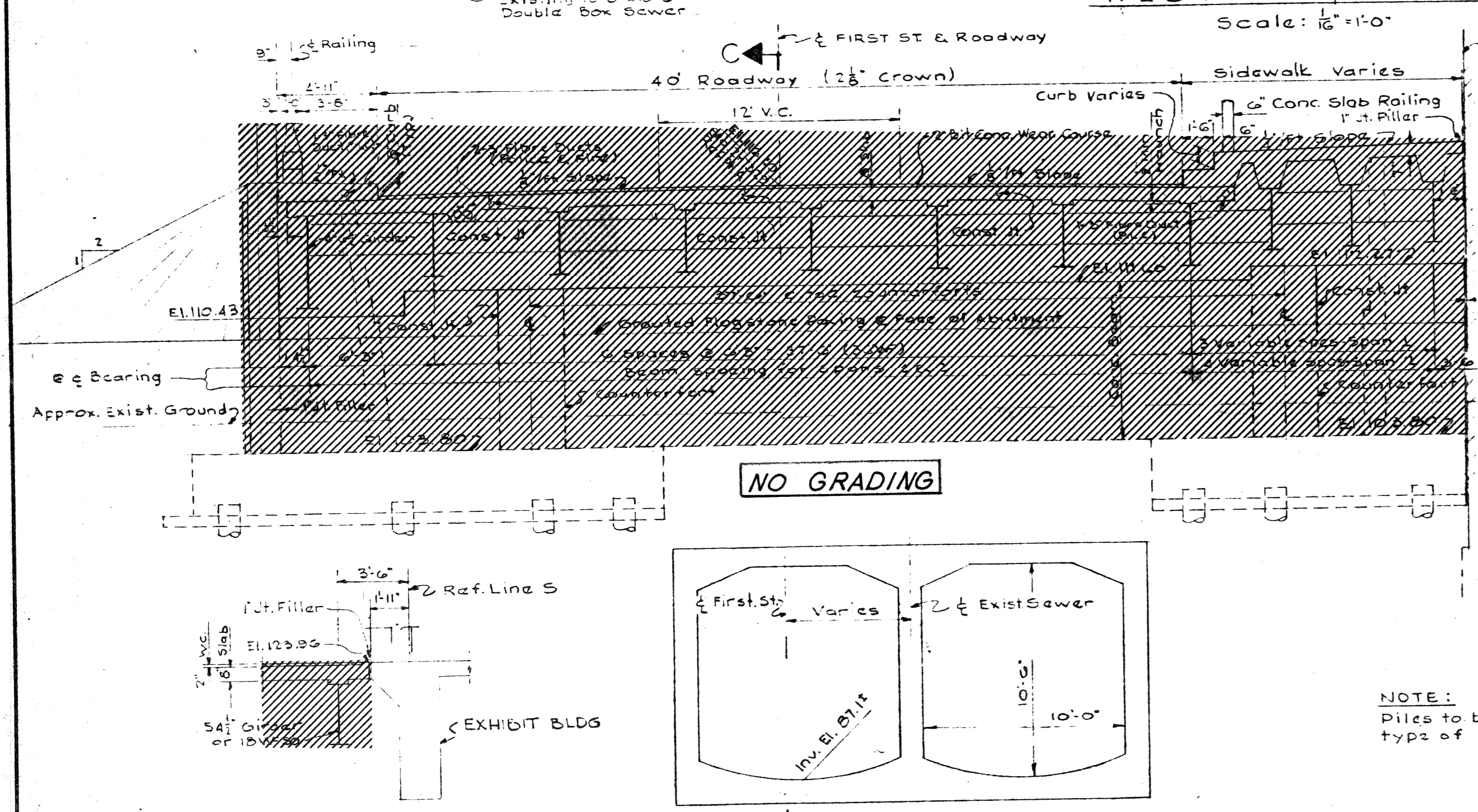
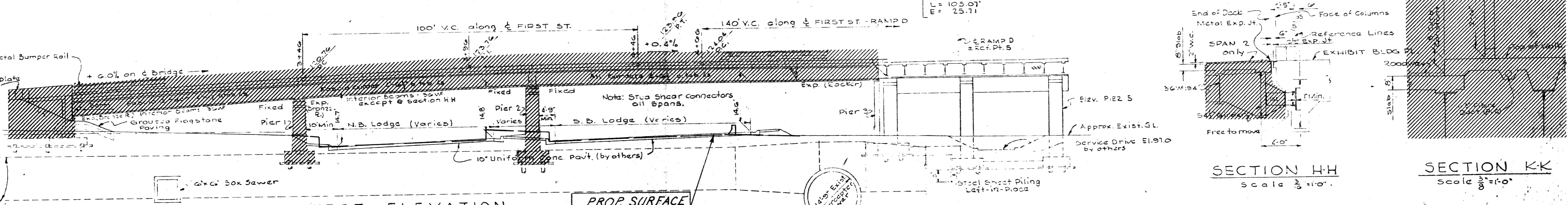
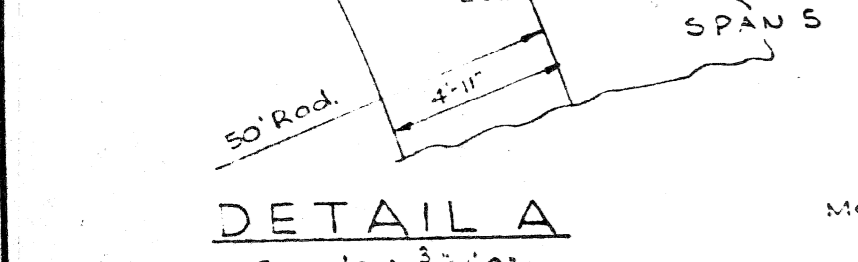
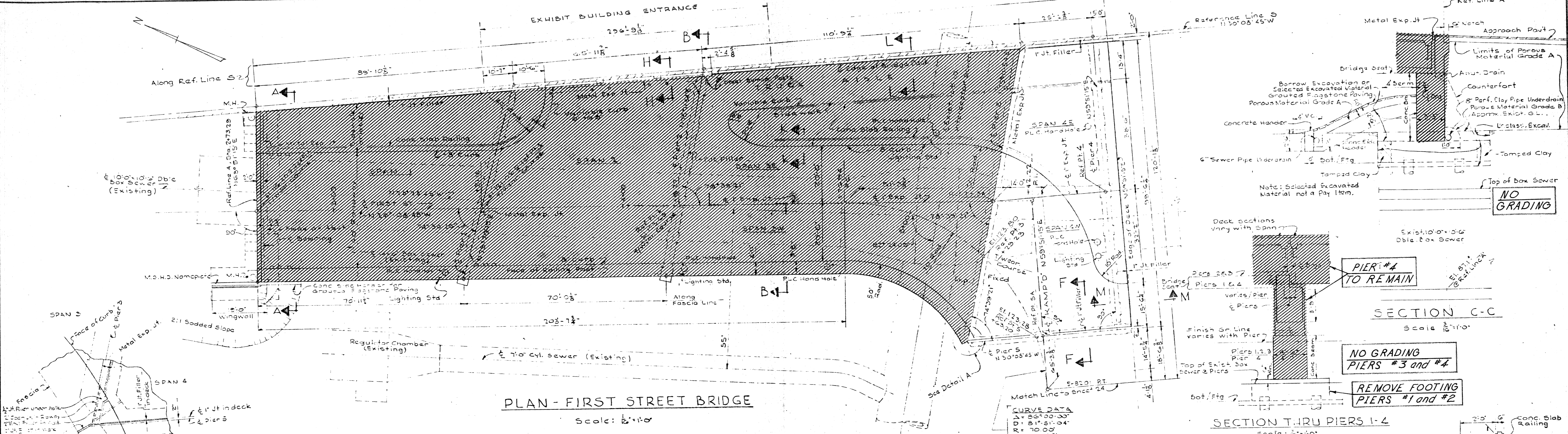
STATE FILE	BRIDGE	872 of 82-22-12,02
	ROAD	

REVISIONS	DATE	APPROVED
1. Gen'l. Revisions 10-4-57 FJK/VFM	7-2-56	[Signature]
2. Per Pier File Spacing 5-8-57 FJK/V		
3. As Rev Width of Abut C, Fearing 5/8/57 BSB/TWJ		

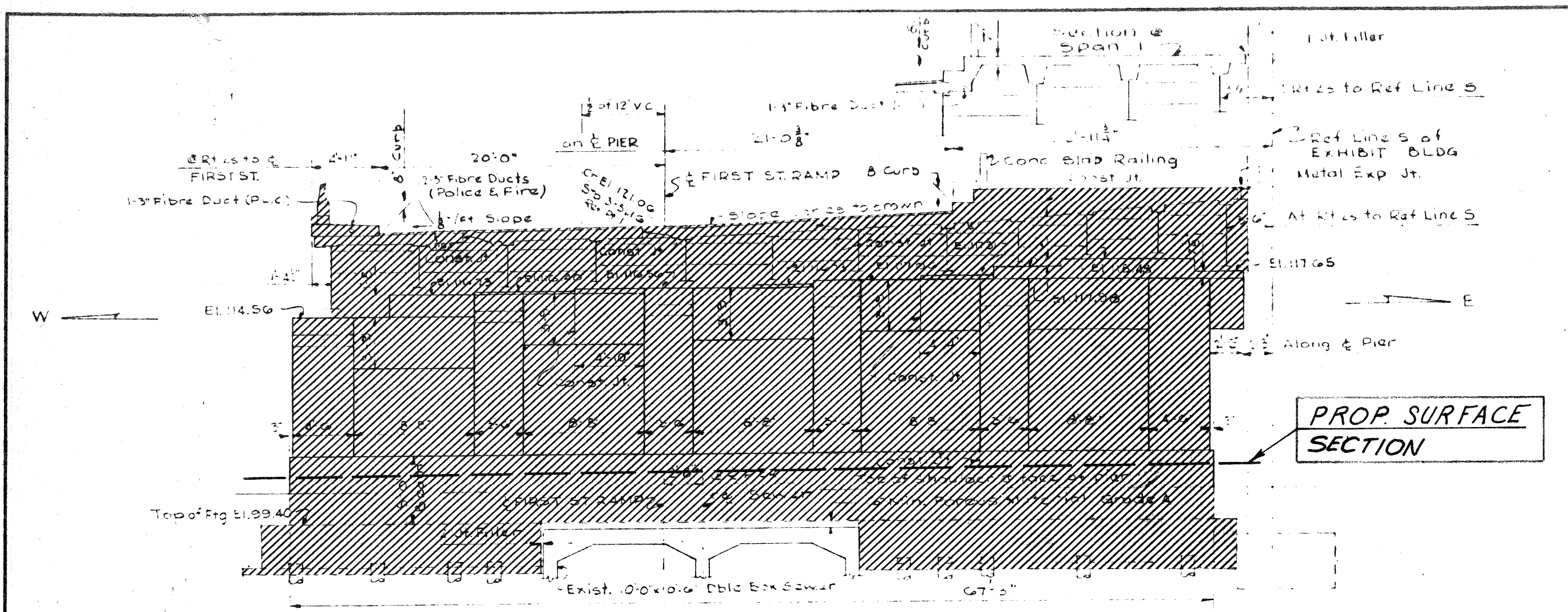
WAYNE COUNTY ROAD COMMISSIONERS
 BOARD OF DETROIT, MICHIGAN
 MICHAEL J. O'BRIEN
 WILLIAM E. KRÉGER
 CHARLES L. WILSON

JOHN C. LODGE EXPRESSWAY
 CIVIC CENTER AREA
 RAMP C BRIDGE
 GENERAL PLAN OF STRUCTURE (CONT'D)

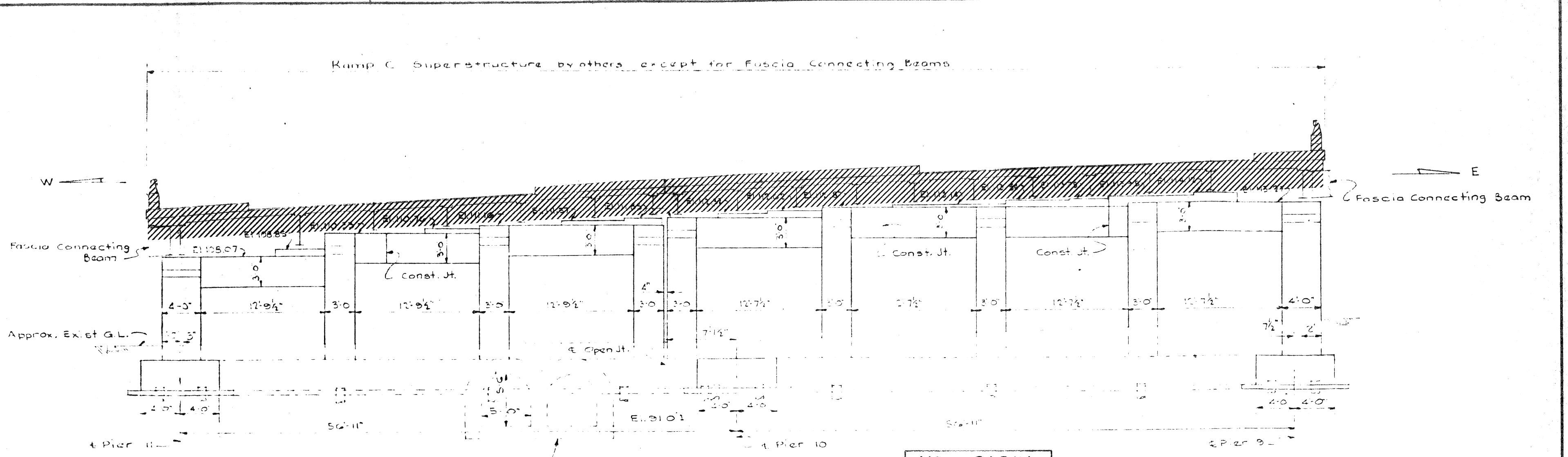
STATE PROJECT: 82-127
 COUNTY JOB: 885d
 SHEET NO.: 543 of 7
 DATE: 24863



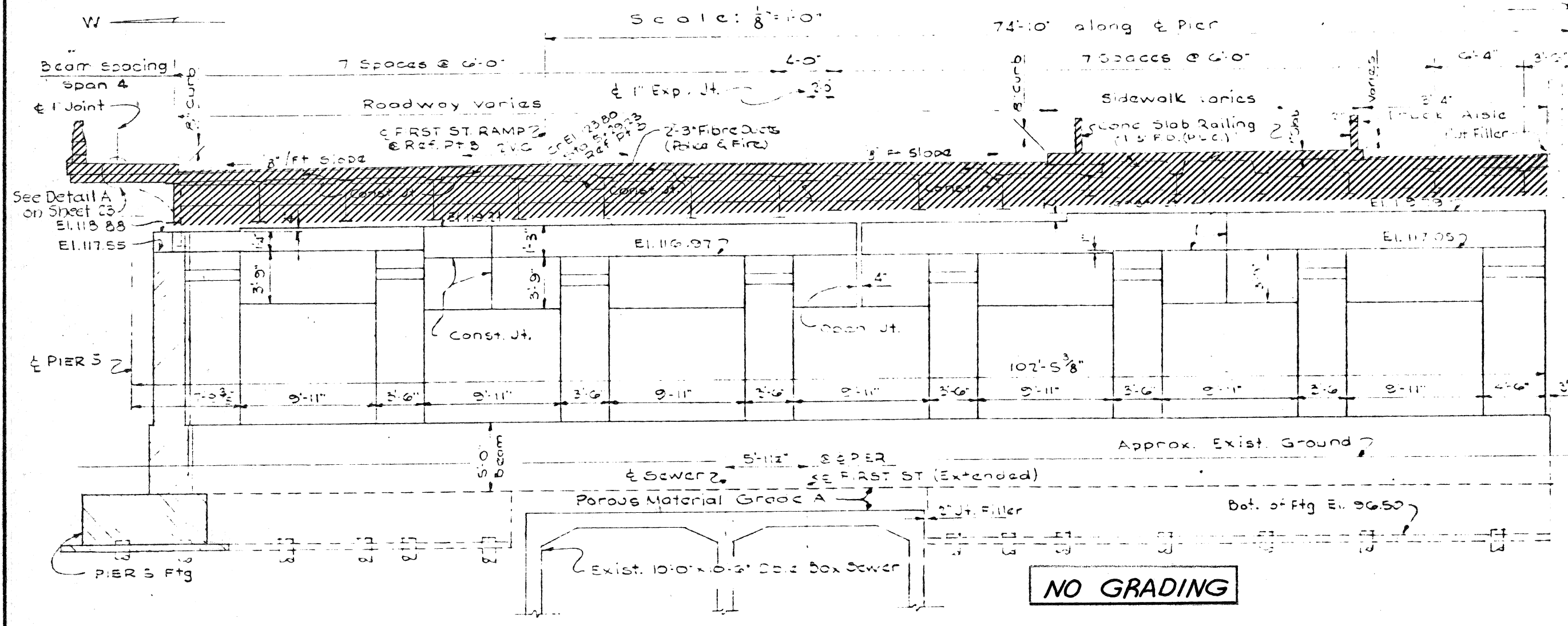
REVISIONS 1. Rev. 11-7-55 2. Rev. 11-7-55 3. Rev. 11-7-55 4. Rev. 11-7-55 5. Rev. 11-7-55 6. Rev. 11-7-55 7. Rev. 11-7-55 8. Rev. 11-7-55 9. Rev. 11-7-55 10. Rev. 11-7-55		DRAWN BY: M. J. PENN. CHECKED BY: R. J. BICKETT DATE: 11-7-55 APPROVED: [Signature] ENGINEER OF BRIDGES AND STRUCTURES	BOARD OF WAYNE COUNTY ROAD COMMISSIONERS DETROIT, MICHIGAN WILLIAM E. KRIGER CHARLES L. WILSON	JOHN C. LODGE EXPRESSWAY CIVIC CENTER AREA FIRST ST. CROSSING AND RAMP D GENERAL PLAN OF STRUCTURE	STATE PROJECT: 82-127 COUNTY JOB: 885-02 ISSUE NO.: 11 DATE: 2-15-57 SHEET NO.: 623 of 7
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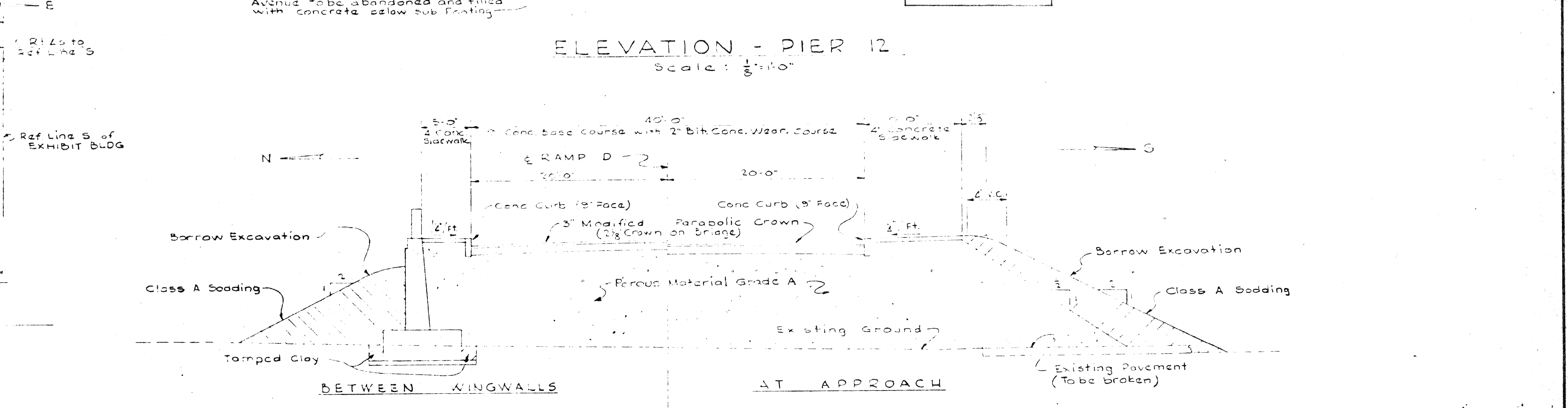
ELEVATION - PIER 1
Scale: 1/8" = 1'-0"



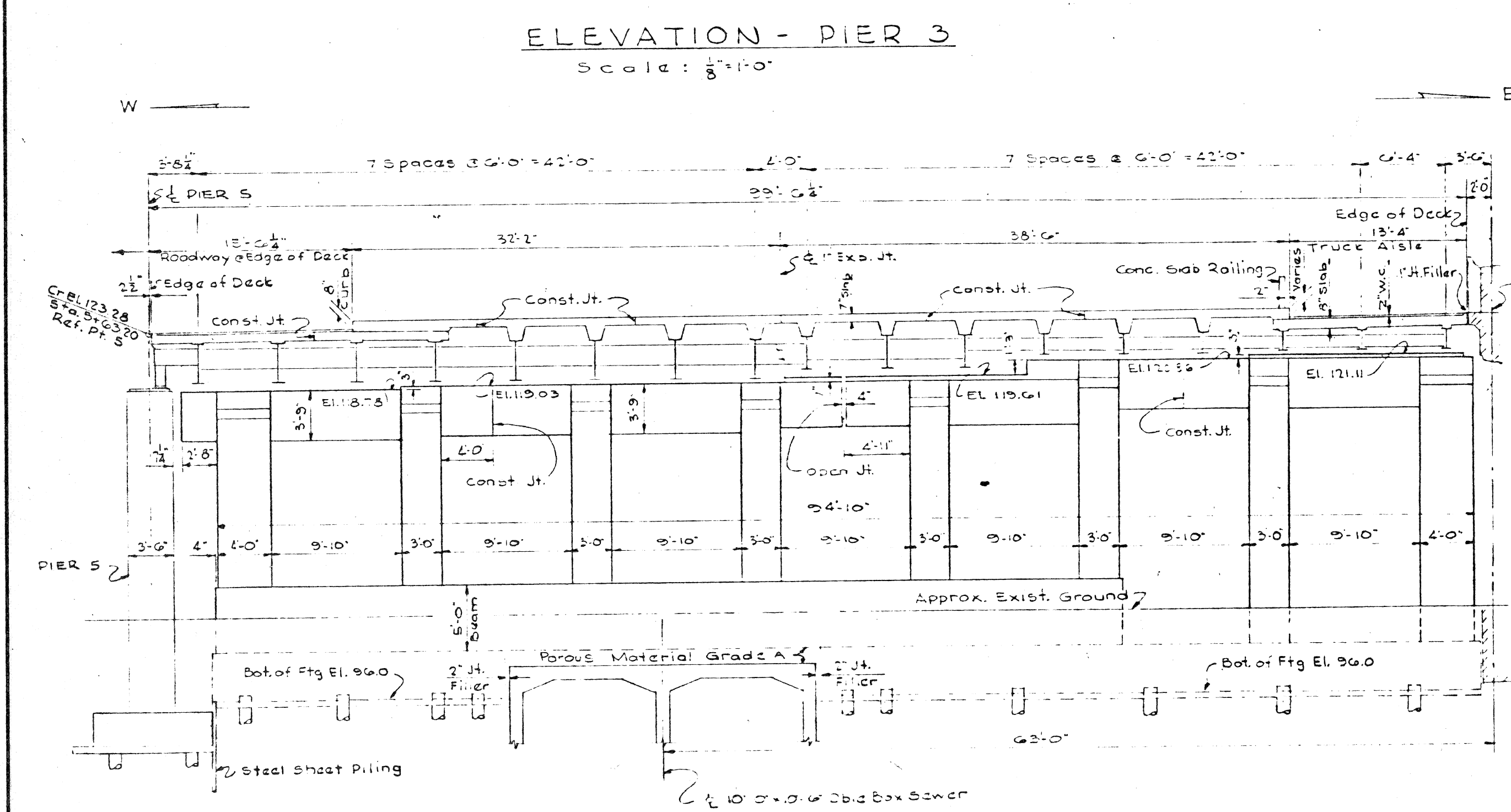
ELEVATION - PIER 12
Scale: 1/8" = 1'-0"



ELEVATION - PIER 3
Scale: 1/8" = 1'-0"



APPROACH SECTION - RAMP D
Scale: 1/8" = 1'-0"



ELEVATION - PIER 4
Scale: 1/8" = 1'-0"

24863
 [Hatched Box] DENOTES REMOVAL PORTIONS
 [White Box] DENOTES WORK IN THIS CONTRACT

REMOVAL PORTIONS

DATE: Work this sheet with sheets 23, 24 507 of 82111

BRIDGE B73 of 82-22-1202
 ROAD

PRELIMINARY PLAN A

NO.	REVISIONS
1	APPROVED SHEET
2	APPROVED SHEET
3	APPROVED SHEET
4	APPROVED SHEET
5	APPROVED SHEET

DESIGNED BY M. J. PENN	CHECKED BY R. J. BRIDGEMAN	DATE 4-23-56	APPROVED [Signature]
CORRECT		APPROVED [Signature]	APPROVED [Signature]
ENGINEER OF DESIGN STRUCTURES AND EXPRESSWAYS		COUNTY HIGHWAY ENGINEER	

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 MICHAEL J. O'BRIEN
 WILLIAM E. KREGER
 CHARLES L. WILSON

STATE PROJECT 82-127	COUNTY JOB 8850-62
ISSUE NO. 5	SHEET NO. 7 25 of 7
DATE 5-2-57	