

GENERAL NOTES	
PROJECT FILE NO.:	G5000-015C
PROJECT DESCRIPTION:	TEMPORARY SUPERSTRUCTURE REPLACEMENT
BRIDGE DESIGN LOADING:	HL-93
SURVEY:	WSP USA INC.
ELEVATION REFERENCE:	NAVD OF 1988
BENCH MARK:	BMK A: RRSFK IN UP#17, ELEV = 701.72' BMK B: RRSFK IN UP#15, ELEV = 699.97'

SEISMIC DESIGN CRITERIA	
DESIGN RETURN PERIOD	1000 YEARS
AVERAGE DAILY TRAFFIC - PRESENT	ADT
DESIGN SPECTRA:	
As	0.068
SDs	0.155
SD1	0.066
SITE CLASS	C
SEISMIC DESIGN CATEGORY (SDC)	A

HYDRAULIC DATA	
DRAINAGE AREA	282 SQ. MILES
DESIGN FLOOD DISCHARGE (10-YEAR)	8,395 CFS
DESIGN FLOOD ANNUAL CHANCE (RETURN FREQUENCY)	10% (10-YEARS)
DESIGN FLOOD VELOCITY (10-YEAR)	7.9 FPS
DESIGN FLOOD ELEVATION (10-YEAR)	693.0 FEET

BASE 100-YEAR FLOOD DATA	
BASE FLOOD DISCHARGE (100-YEAR)	15,445 CFS
BASE FLOOD ELEVATION (100-YEAR)	695.8 FEET

DESIGN AND CHECK SCOUR DATA	
SCOUR DESIGN FLOOD ANNUAL CHANGE (RETURN FREQUENCY)	4% (25-YEARS)
DESIGN FLOOD ABUTMENT SCOUR DEPTHS	NO CHANGE
SCOUR CHECK FLOOD ANNUAL CHANGE (RETURN FREQUENCY)	2% (50-YEARS)
CHECK FLOOD ABUTMENT SCOUR DEPTH	NO CHANGE

FLOOD OF RECORD	
DISCHARGE	12,200
FREQUENCY (IF KNOWN)	~50-YEAR
MAXIMUM ELEVATION	694.9 FEET
DATE	JAN 1, 1949
HISTORY OF ICE FLOWS	UNKNOWN
EVIDENCE OF SCOUR AND EROSION	UNKNOWN

- DESIGN LOADS AND SPECIFICATIONS:**
- DESIGN LOADING: HL-93
 - DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN (LRFD)
 - TECHNICAL SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH ED., 2020 AS AMENDED MASSDOT 2021 STANDARD SPECIFICATIONS AS AMENDED BY SUPPLEMENTS

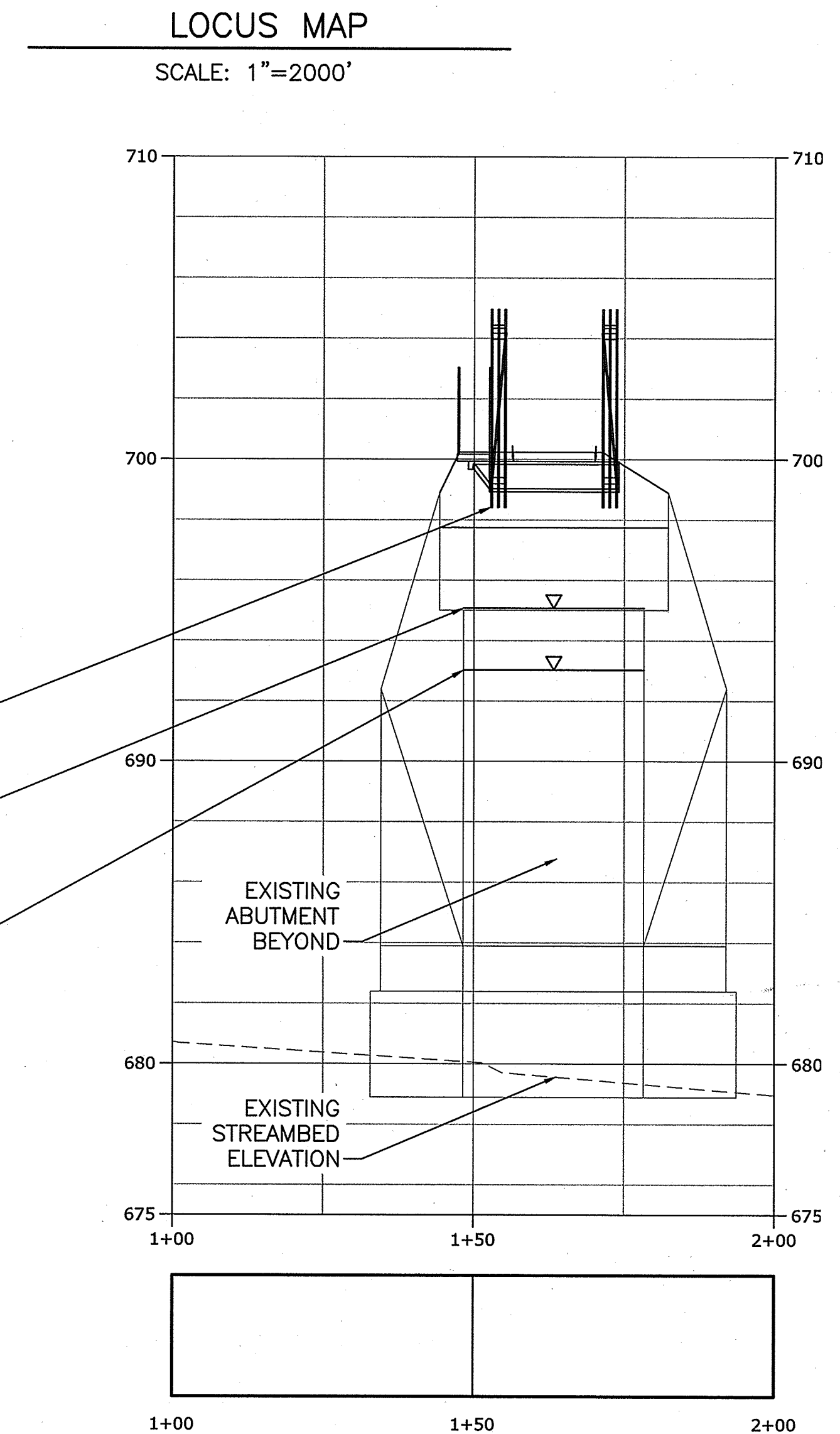
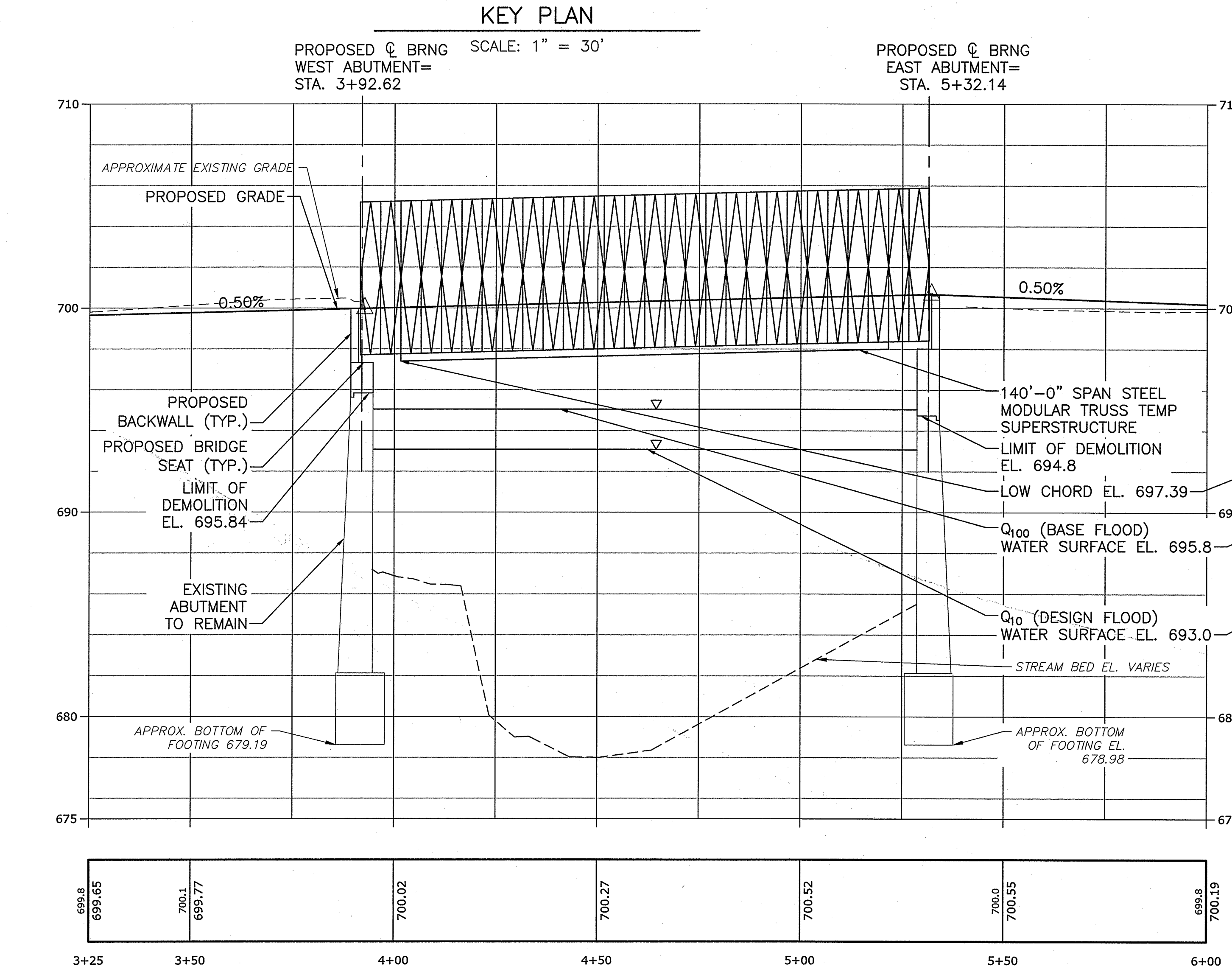
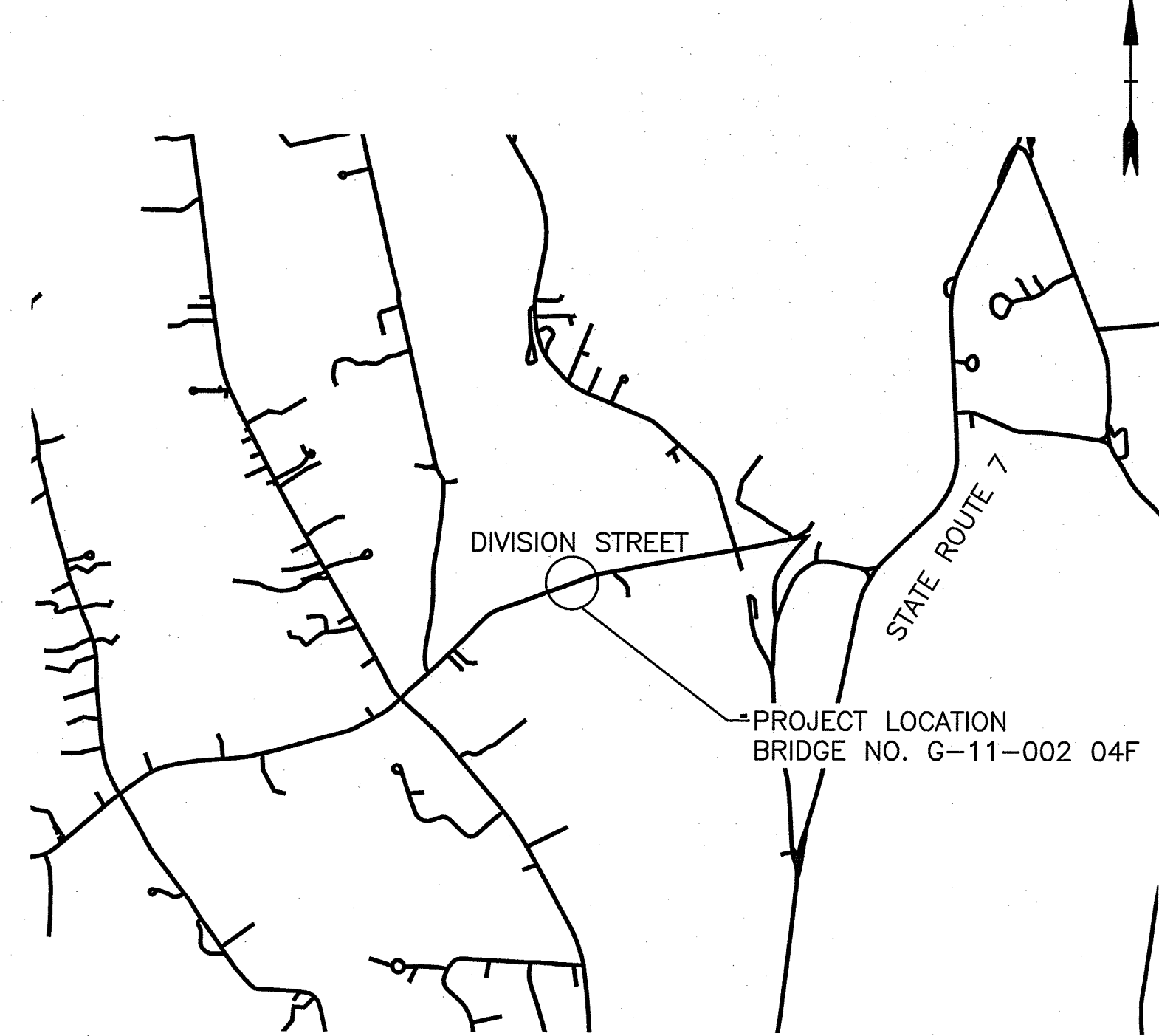
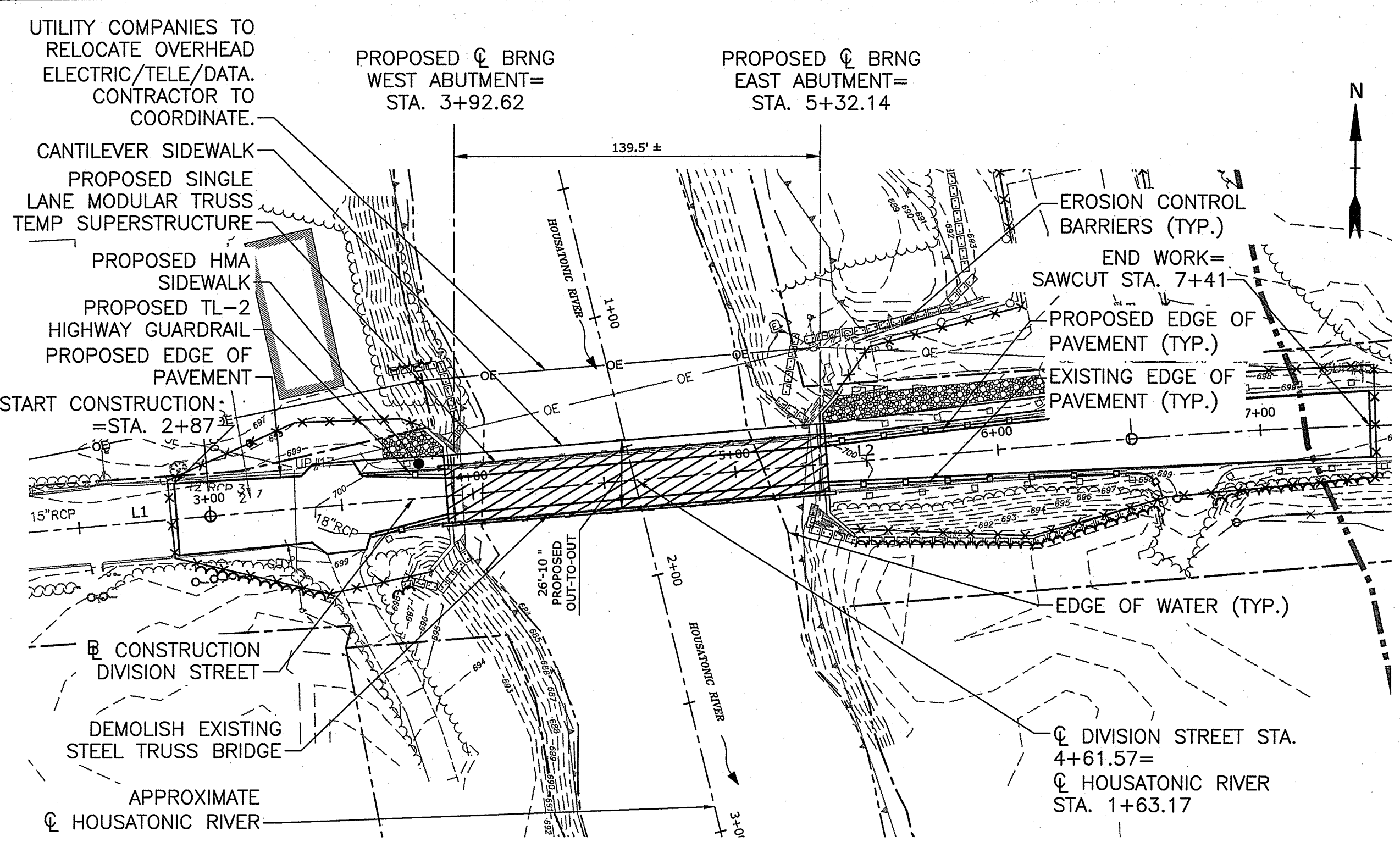
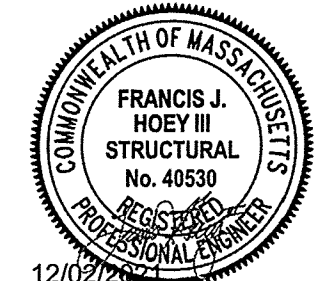
BRIDGE DRAWING INDEX

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CHAPTER 85 SECTION 35 REVIEW AND APPROVAL NOTE

IN ACCORDANCE AND COMPLIANCE WITH THE REQUIREMENTS OF CHAPTER 85 SECTION 35 OF THE MASSACHUSETTS GENERAL LAWS, THE CONTRACTOR SHALL SUBMIT TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION ALL CONSTRUCTION DRAWINGS AND DESIGN CALCULATIONS THAT SHALL BE USED TO FABRICATE AND CONSTRUCT THE STRUCTURE DENOTED ON THESE PLANS FOR REVIEW AND APPROVAL. THIS APPROVAL SHALL CONSTITUTE THE FINAL APPROVAL AS STIPULATED BY CHAPTER 85 SECTION 35 OF THE MASSACHUSETTS GENERAL LAWS.

COMMONWEALTH OF MASSACHUSETTS
 MassDOT, Highway Division
CONCEPTUAL DESIGN IS ACCEPTABLE TO MASSDOT FOR CONTRACTING
 1/14/2022
 STATE BRIDGE ENGINEER



UPSTREAM DIVISION STREET & PROFILE
 VERT: 1" = 4" HORIZ: 1" = 20'

HOUSATONIC RIVER & PROFILE
 VERT: 1" = 4" HORIZ: 1" = 20'

Division Street Temporary Superstructure Replacement
 Town of Great Barrington, MA

Division Street over Housatonic River
 MASSDOT STRUCTURE NO. G-11-002 (04F)

MARK	DATE	DESCRIPTION
PROJECT NO.:	G5000-015C	
DATE:	DECEMBER 2021	
FILE:	G-5000-015C- COVER PAGE_recover.dwg	
DRAWN BY:	JMF/DRF/AGB	
CHECKED:	BRB / DSH	
APPROVED:	FJH	

BRIDGE KEY PLAN, PROFILES, LOCUS, & INDEX
 SCALE:

Last Saved: 12/22/2021
 Plotted On: Dec 02, 2021 9:10am By: JFitzpatrick
 Tighe & Bond: J:\G5000 Great Barrington\015C Division Street Modular Truss Drawings_Figures\AutoCAD Sheet\G-5000-015C- COVER PAGE_recover.dwg

ABBREVIATIONS

AADT	ANNUAL AVERAGE DAILY TRAFFIC
ABAN	ABANDON
ADJ	ADJUST
APPROX.	APPROXIMATE
A.C.	ASPHALT CONCRETE
B/	BOTTOM OF
BIT.	BITUMINOUS
BD.	BOUND
BL	BASELINE
BM	BENCHMARK
BO	BY OTHERS
BOS	BOTTOM OF SLOPE
BR.	BRIDGE
BVW	BORDERING VEGETATED WETLAND
CB	CATCH BASIN
CC	CEMENT CONCRETE
CL	CLEARANCE
CEM	CEMENT
CFS	CUBIC FEET PER SECOND
CMP	CORRUGATED METAL PIPE
CONC	CONCRETE
DIA	DIAMETER
DWY	DRIVEWAY
ELEV (or EL.)	ELEVATION
EOG	EDGE OF GRAVEL
EOW	EDGE OF WATER
EOP	EDGE OF PAVEMENT
EXIST (or EX)	EXISTING
FDN.	FOUNDATION
FIN	FINISHED
GRS	GEOSYNTHETIC REINFORCED SOIL
GRAV	GRAVEL
GRD	GUARD
HDW	HEADWALL
HMA	HOT MIX ASPHALT
HOR	HORIZONTAL
HYD	HYDRANT
INV	INVERT
JCT	JUNCTION
L	LENGTH OF CURVE
LF	LINEAR FOOT
LT	LEFT
MASSDOT	MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
MAX	MAXIMUM
MB	MAILBOX
MH	MANHOLE
MIN	MINIMUM
OE	OVERHEAD ELECTRIC
OHW	ORDINARY HIGH WATER
PC	POINT OF CURVATURE
P.G.L.	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
POC	POINT ON CURVE
POT	POINT ON TANGENT
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
SRW	STONE RETAINING WALL

ABBREVIATIONS CONT'D

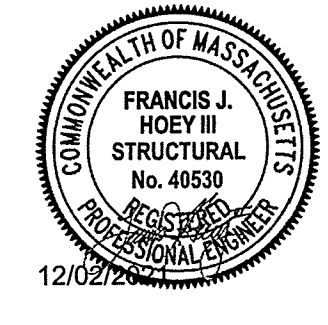
R	RADIUS OF CURVATURE
R&D	REMOVE AND DISPOSE
RCP	REINFORCED CONCRETE PIPE
RET	RETAIN
RET WALL	RETAINING WALL
ROW	RIGHT OF WAY
R&R	REMOVE AND RESET
R&S	REMOVE AND STACK
RT	RIGHT
SB	STONE BOUND
SD	STORM DRAIN
SHLD	SHOULDER
SIM	SIMILAR
SF	SQUARE FOOT
ST	STREET
STA	STATION
T/	TOP OF
TEMP	TEMPORARY
TC	TOP OF CURB
TOS	TOP OF SLOPE
TYP	TYPICAL
UP	UTILITY POLE
W	WIDTH, WIDE
VAR	VARIES
VERT	VERTICAL
VC	VERTICAL CURVE
VGC	VERTICAL GRANITE CURB

GENERAL SYMBOLS

EXISTING	PROPOSED	DESCRIPTION
□ MB		MAIL BOX
⊕ B#		BORING HOLE
⊕		BENCHMARK
○	○	SIGN AND POST
□ MON		MONUMENT
□ SB		STONE BOUND
■ TB		TOWN OR CITY BOUND
△ CP#		CONTROL POINT
○ GUY		TROLLEY POLE OR GUY POLE
○ UPL		UTILITY POLE
○		BUSH
● SIZE & TYPE		TREE
○ WF/#		WETLAND FLAG
■		WETLAND AREA
---	---	OVERHEAD CABLE/WIRE
---	---	STORM DRAIN
100---99---		CONTOURS
---	---	GUARD RAIL - STEEL POSTS
---	---	CHAIN LINK OR METAL FENCE
---	---	WOOD FENCE
---	---	WOOD POST FENCE
---	---	EROSION CONTROL BARRIER
---	---	TREE LINE
---	---	SAWCUT LINE
---	---	EDGE OF PAVEMENT
---	---	ORDINARY HIGH WATER (OHW)
---	---	BORDER OF VEGETATED WETLAND
---	---	TOWN OR CITY LAYOUT
---	---	TOWN OR CITY BOUNDARY LINE
---	---	PROPERTY LINE OR APPROXIMATE PROPERTY LINE
---	---	EASEMENT
---	---	OVERHEAD ELECTRIC
---	---	BORDERING VEGETATED WETLANDS
---	---	TOP OF BANK
---	---	CENTERLINE
---	---	100 FOOT BUFFER ZONE
---	---	100 FOOT RIVERFRONT AREA
---	---	200 FOOT RIVERFRONT AREA
---	---	100 YEAR FLOOD ELEVATION
▨		DEMOLISH
▨		MODIFIED ROCKFILL SURFACE RESTORATION
▨		DUMPED RIPRAP BANK RESTORATION AND STABILIZATION
▨		BANK RESTORATION AND STABILIZATION
▨		STAGING AREA

GENERAL NOTES

- BASE PLAN AND EXISTING TOPOGRAPHY PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP USA INC. IN OCTOBER 2018. COPIES OF SURVEY FILES MAY BE OBTAINED FROM TIGHE & BOND, INC. BORINGS WERE PERFORMED BY TECHNICAL DRILLING SERVICES ON OCTOBER 9th AND 10th, 2018.
- THE DRAWINGS ARE BASED ON THE FOLLOWING DATUMS: HORIZONTAL NAD83; VERTICAL NAVD88.
- THE EXISTING CONDITIONS SHOWN ARE APPROXIMATE. FIELD VERIFY EXISTING CONDITIONS.
- THE PROPERTY LINES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND ARE NOT BASED ON DEED OR PLAN RESEARCH.
- ALL EXISTING BRONZE DISCS REPRESENTING STATE BENCHMARKS OR SURVEY TRIANGULATION POINTS MUST NOT BE DISTURBED. WHEN THE WORK CALLED FOR INVOLVES DISTURBING A BRONZE DISC, NOTIFY THE ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT THE STATE TO TEMPORARILY RELOCATE THE AFFECTED MARKER.
- PLANS FOR THE EXISTING BRIDGE ARE AVAILABLE THROUGH MASSACHUSETTS DEPARTMENT OF TRANSPORTATION PLANS AND RECORD ROOM, 10 PARK PLAZA, BOSTON, MA.
- NOTIFY (DIGSAFE AT 1-888-344-7233) AND OTHER UTILITY OWNERS IN THE AREA NOT ON THE (DIGSAFE) LIST AT LEAST 72 HOURS PRIOR TO ANY DIGGING, TRENCHING, ROCK REMOVAL, DEMOLITION, BORING, BACKFILLING, GRADING, LANDSCAPING, OR ANY OTHER EARTH MOVING OPERATIONS.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE. IN ADDITION, SOME UTILITIES MAY NOT BE SHOWN. DETERMINE THE EXACT LOCATION OF UTILITIES BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND/OR INTERRUPTIONS IN UTILITY SERVICE. PERFORM TEST PIT EXCAVATIONS AND OTHER INVESTIGATIONS TO LOCATE UTILITIES, AND PROVIDE THIS INFORMATION TO THE ENGINEER, PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS. LOCATE ALL EXISTING UTILITIES TO BE CROSSED BY HAND EXCAVATION.
- BOLD TEXT AND LINES INDICATE PROPOSED WORK. LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- ALL DIMENSIONS ARE HORIZONTAL AND VERTICAL, AND ARE GIVEN AT 68 DEGREES FAHRENHEIT UNLESS NOTED OTHERWISE.
- TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
- ALL WORK PERFORMED SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND REQUIREMENTS.
- ALL MATERIALS AND METHODS ARE TO COMPLY WITH THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, DATED 2021, AND ITS LATEST REVISIONS.
- NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL.
- THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK; AND THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
- REPAIR ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY OUTSIDE THE LIMITS OF CONSTRUCTION SHOWN ON THE PLANS CAUSED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS, AT THE SOLE COST TO THE CONTRACTOR.
- OBTAIN, PAY FOR AND COMPLY WITH PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK. ARRANGE AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE JURISDICTIONAL AUTHORITIES.
- REVIEW AND UNDERSTAND ALL APPLICABLE ENVIRONMENTAL PERMITS AND ENSURE THAT ALL CONSTRUCTION CONDITIONS ARE MET.
- DIMENSIONS ARE TAKEN FROM SURVEY AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. DETERMINE AND ESTABLISH ALL DIMENSIONS AND DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENTS AND SURVEY. THE CONTRACTOR IS RESPONSIBLE FOR NOT ORDERING ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK IS APPROVED BY THE ENGINEER.
- IF FIELD CONDITIONS ARE OBSERVED THAT VARY SIGNIFICANTLY FROM THOSE SHOWN ON THE DRAWINGS, IMMEDIATELY NOTIFY THE ENGINEER IN WRITING FOR RESOLUTION OF THE CONFLICTING INFORMATION.
- IF THERE ARE PROPOSED REVISIONS TO APPROVED PLANS, SUBMIT THESE CHANGES TO THE ENGINEER OF RECORD AND MASSDOT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ONCE THESE REVISIONS ARE APPROVED BY THE ENGINEER OF RECORD AND MASSDOT, THEY SHALL THEN BE SUBMITTED TO MASSDOT FOR FILING.
- PROTECT AND MAINTAIN ALL UTILITIES IN THE AREAS UNDER CONSTRUCTION DURING THE WORK. LEAVE ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THE CONTRACT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SAND AND SILT FROM DISTURBED AREAS FROM ENTERING THE STREAM.
- NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
- COORDINATE ALL WORK WITH THE TOWN OF GREAT BARRINGTON, ALL UTILITY COMPANIES, THE ENGINEER, AND ANY AFFECTED ADJUTERS. WORK SHALL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE TOWN OF GREAT BARRINGTON.
- COORDINATE UTILITY RELOCATION WORK WITH NATIONAL GRID AND PROVIDE THEM WITH FULL ACCESS TO THE SITE TO COMPLETE THE WORK.
- SUPPORT EXISTING UTILITIES AND REPAIR ANY DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
- TAKE NECESSARY MEASURES AND PROVIDE CONTINUOUS BARRIERS OF SUFFICIENT TYPE, SIZE, AND STRENGTH TO PREVENT ACCESS TO ALL WORK, OPEN EXCAVATIONS, AND STAGING AREAS AT THE COMPLETION OF EACH DAYS WORK.
- UTILIZE TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE VEHICULAR AND PEDESTRIAN SAFETY ADJACENT TO THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA.
- MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION. THE BRIDGE WILL REMAIN CLOSED FOR THE DURATION OF THE PROJECT; THEREFORE, EMERGENCY ACCESS ACROSS THE BRIDGE CANNOT BE PROVIDED. ADJACENT PROPERTIES MUST REMAIN ACCESSIBLE TO EMERGENCY VEHICLES FROM EITHER END OF DIVISION STREET, EXCLUDING THE USE OF THE BRIDGE.
- THE TERM "DEMOLISH" USED ON THE DRAWINGS MEANS TO REMOVE AND DISPOSE. REMOVE AND DISPOSE OF ALL CONSTRUCTION-RELATED WASTE MATERIALS AND DEBRIS IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS.
- THE TERM "ABANDON" USED ON THE DRAWINGS MEANS TO LEAVE IN PLACE AND TAKE APPROPRIATE MEASURES TO DECOMMISSION AS SPECIFIED OR NOTED ON THE DRAWINGS.
- ALL PROPOSED WORK MAY BE ADJUSTED IN THE FIELD BY THE OWNER'S PROJECT REPRESENTATIVE TO MEET EXISTING CONDITIONS.
- MATERIAL REFERENCES NOTED MX.XX.XX REFERENCE THE 2020 MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, MOST CURRENT VERSION AND AMENDMENTS.



**Division Street
Temporary
Superstructure
Replacement**

Town of Great
Barrington, MA

Division Street over
Housatonic River

MASSDOT
STRUCTURE NO.
G-11-002 (04F)

MARK	DATE	DESCRIPTION

PROJECT NO:	G5000-015C
DATE:	DECEMBER 2021
FILE:	G5000-015C_GENERAL NOTES.dwg
DRAWN BY:	JMF/DRF/AGB
CHECKED:	BRB / DSH
APPROVED:	FJH

STANDARD LEGEND AND
ABBREVIATIONS

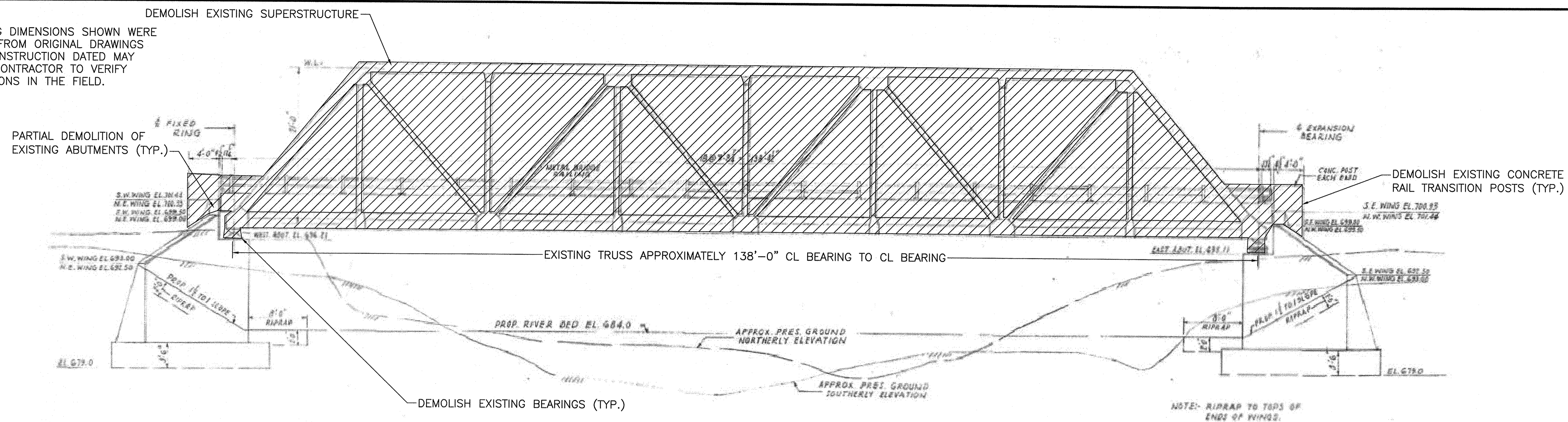
SCALE:
SHEET 02

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
CONCEPTUAL DESIGN IS ACCEPTABLE
TO MASSDOT FOR CONTRACTING
1/14/2022
STATE BRIDGE ENGINEER DATE

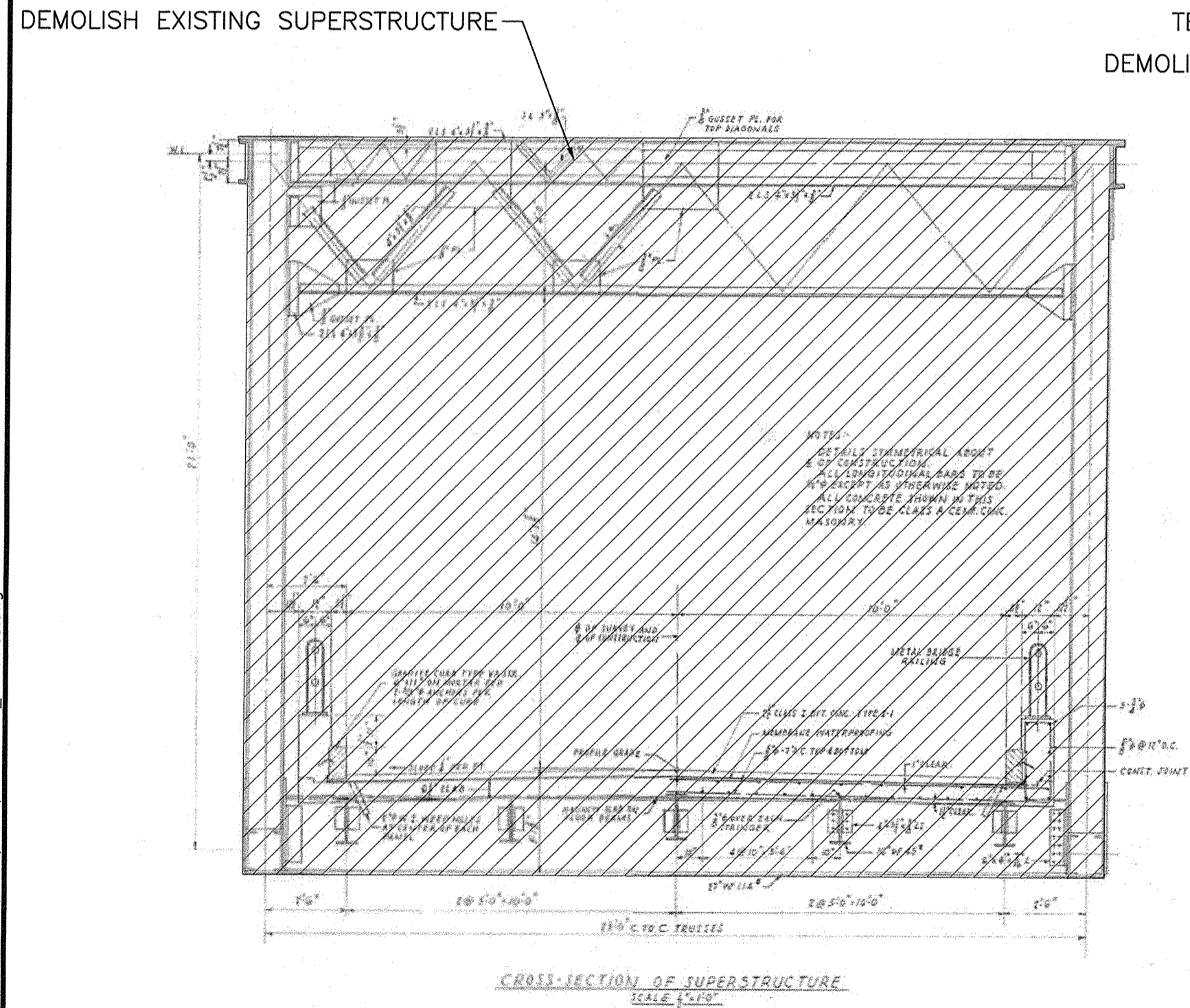
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Plotted On: 06/02/2022 10:00am By: JMF/DRF/AGB
File: G:\Projects\2021\G5000\Great Barrington\015C_Division Street Superstructure Replacement\015C_GENERAL NOTES.dwg

NOTES:

- EXISTING DIMENSIONS SHOWN WERE TAKEN FROM ORIGINAL DRAWINGS FOR CONSTRUCTION DATED MAY 1950. CONTRACTOR TO VERIFY DIMENSIONS IN THE FIELD.



SOUTHERLY ELEVATION
SCALE 1/8"=1'-0"
NORTHERLY ELEVATION SIMILAR



CROSS-SECTION OF SUPERSTRUCTURE
SCALE 1/4"=1'-0"

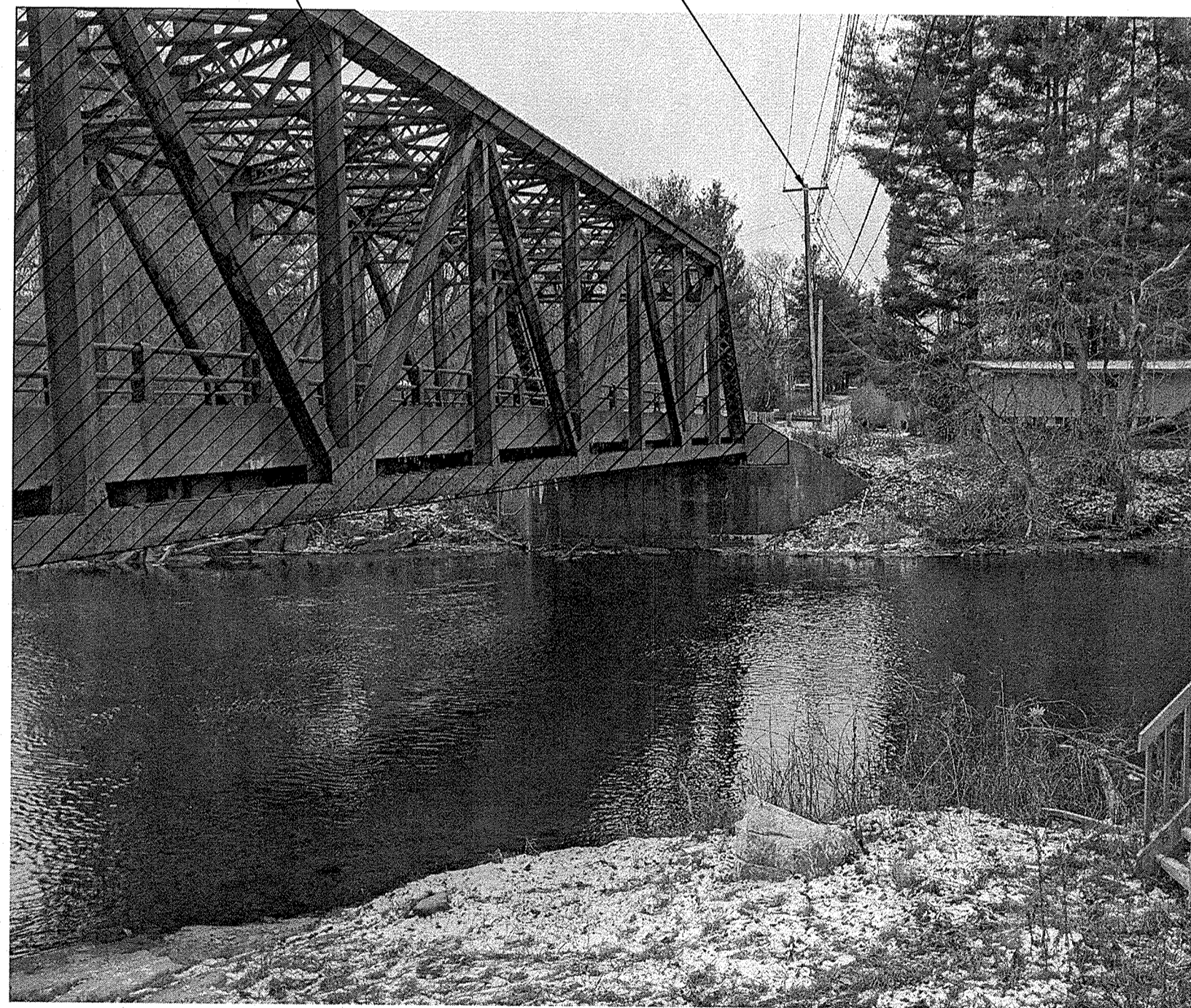


PHOTO 1
NOT TO SCALE

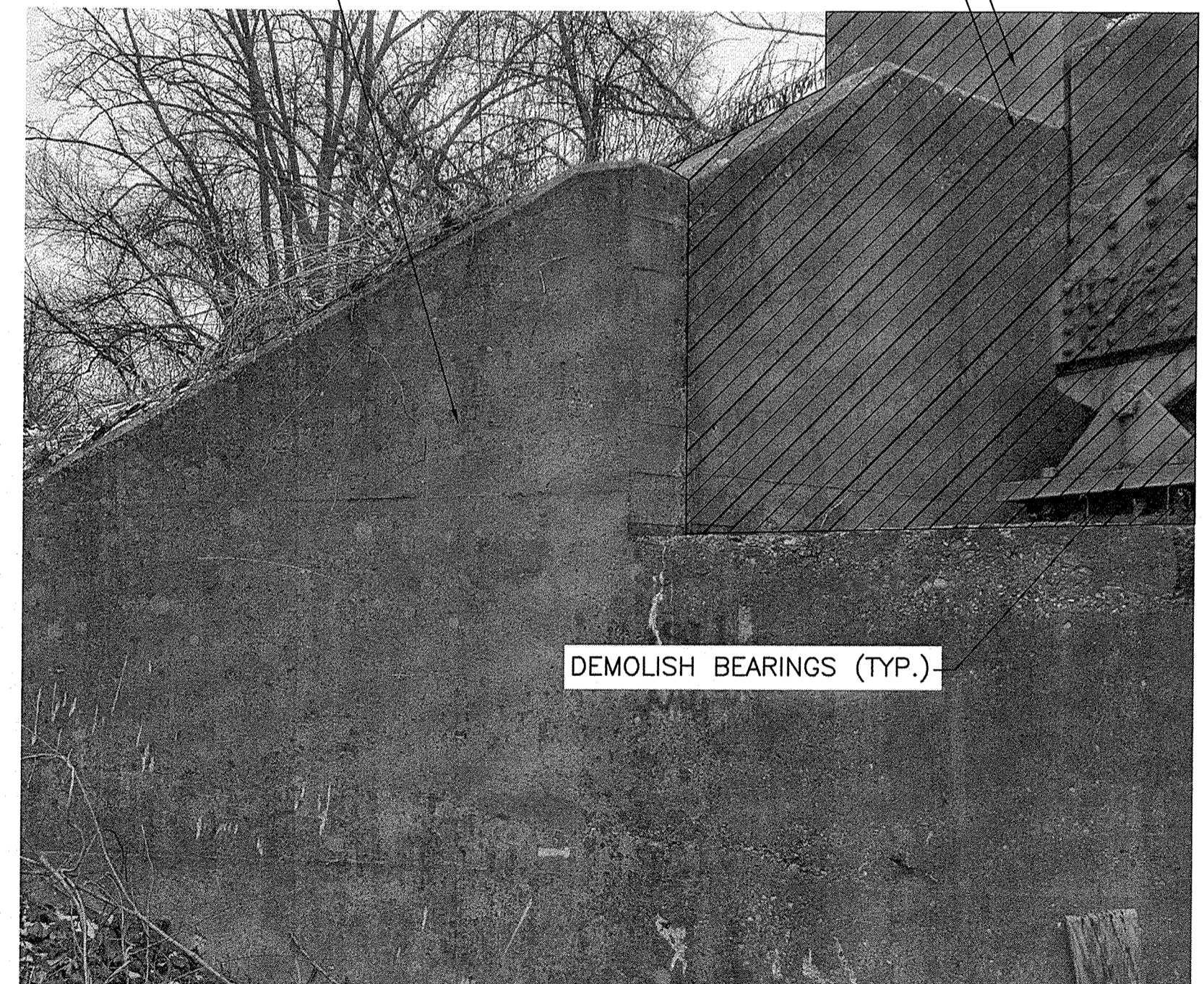
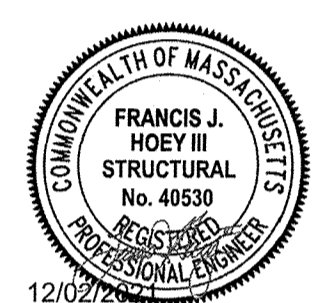
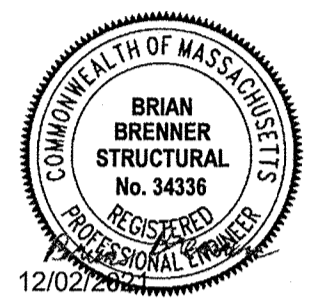


PHOTO 2
NOT TO SCALE

NOTES:

- REMOVAL OF THE EXISTING TRUSS SHALL INCLUDE PARTIAL DEMOLITION OF THE ABUTMENT BACKWALLS TO THE LIMITS DEFINED WITHIN THE DRAWINGS FOR CONSTRUCTION.
- WINGWALLS TO REMAIN, PROTECT DURING CONSTRUCTION.
- SEE SHEETS 05-06 FOR ABUTMENT DEMOLITION DETAILS, AND SHEETS 12-13 FOR ABUTMENT MODIFICATION DETAILS.
- REFER TO SPECIAL PROVISIONS FOR BRIDGE DEMOLITION SUBMITTAL REQUIREMENTS.
- NO WORK WILL BE PERMITTED IN THE WATER BETWEEN THE DELINEATED BANK LINES. PROTECT THE WATERWAY DURING CONSTRUCTION AND MAKE PROVISIONS TO PREVENT DEMOLISHED MATERIAL FROM FALLING INTO THE WATER.
- SEE SHEET 03 FOR PHOTO LOCATIONS.
- AVOID DAMAGE TO EXISTING STRUCTURE THAT IS TO REMAIN. ANY DAMAGE CAUSED BY DEMOLITION ACTIVITY SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- TREAT CUT REINFORCING STEEL AND ANCHORS WITH A BONDING PRIMER AND REINFORCEMENT CORROSION PROTECTION.



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MARK	DATE	DESCRIPTION
PROJECT NO:	G5000-015C	
DATE:	DECEMBER 2021	
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DRAWN BY:	JMF/DRF/AGB	
CHECKED:	BRB / DSH	
APPROVED:	FJH	
EXISTING BRIDGE SUPERSTRUCTURE DEMOLITION		

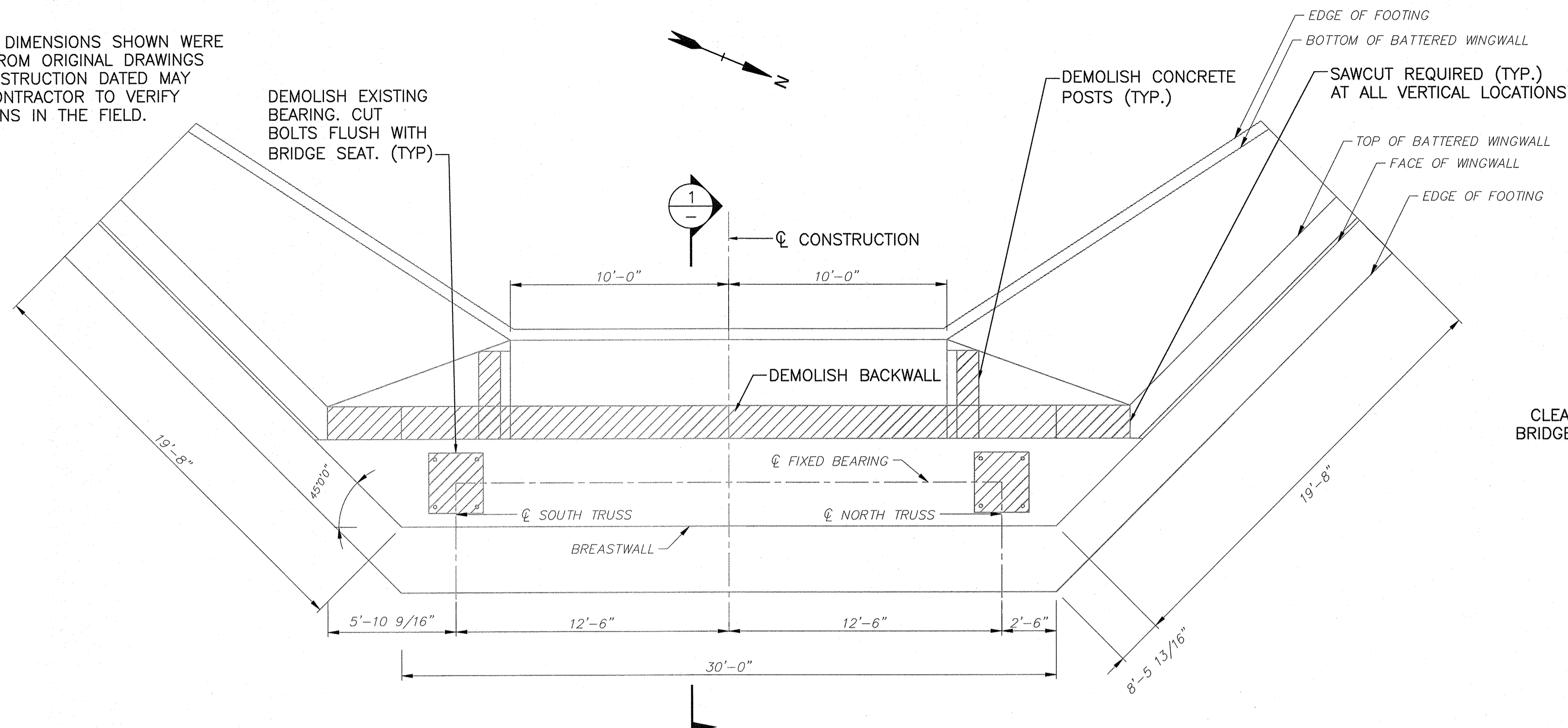
SCALE:
SHEET 04

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
**CONCEPTUAL DESIGN IS ACCEPTABLE
TO MASSDOT FOR CONTRACTING**
1/14/2022
STATE BRIDGE ENGINEER DATE

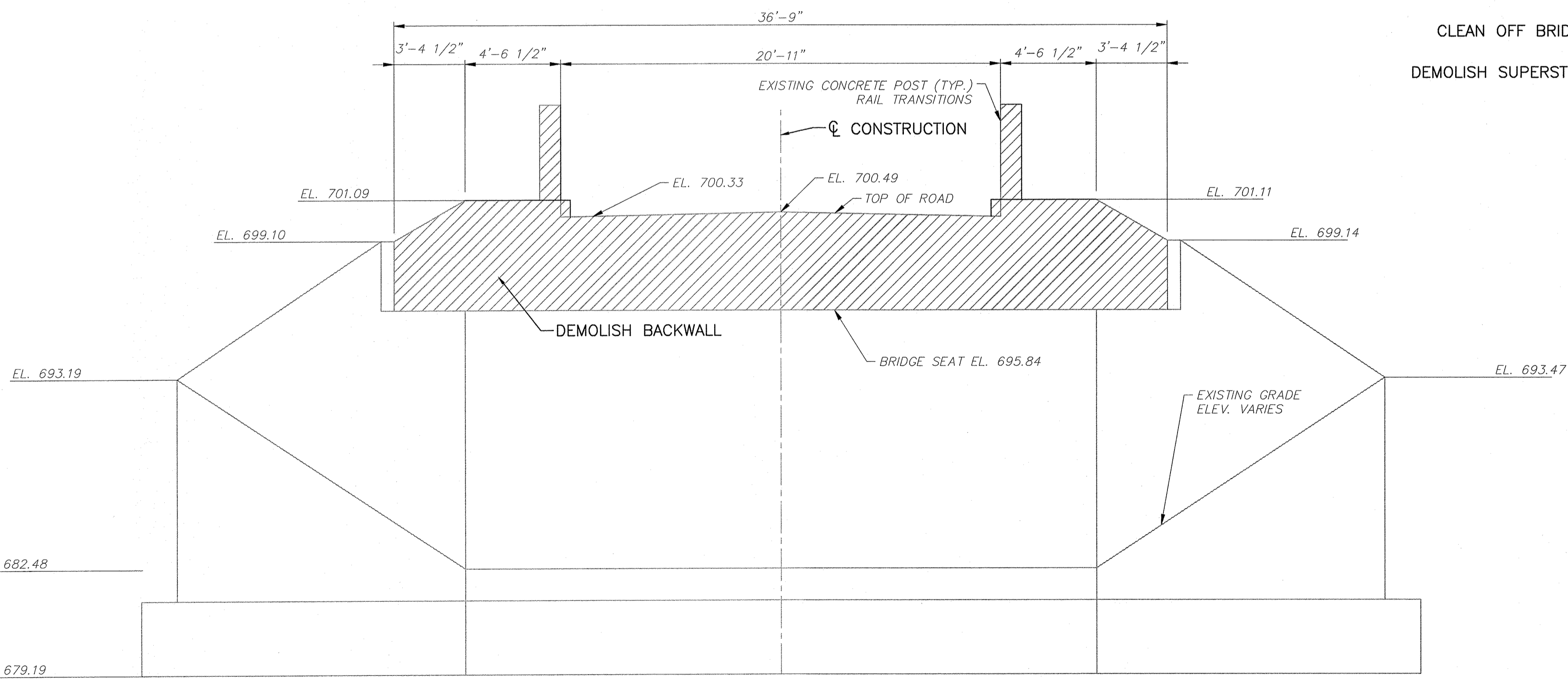
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Printed On: Dec 01, 2021 1:35pm
Figures: AutoCAD, Sheet: Acrow G5000-015C, SHEET 05.dwg
Tighe & Bond, 215 G5000 Great Barrington 01530

NOTES:

1. EXISTING DIMENSIONS SHOWN WERE TAKEN FROM ORIGINAL DRAWINGS FOR CONSTRUCTION DATED MAY 1950. CONTRACTOR TO VERIFY DIMENSIONS IN THE FIELD.



EXISTING WEST ABUTMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



EXISTING WEST ABUTMENT DEMOLITION ELEVATION
SCALE: 1/4" = 1'-0"

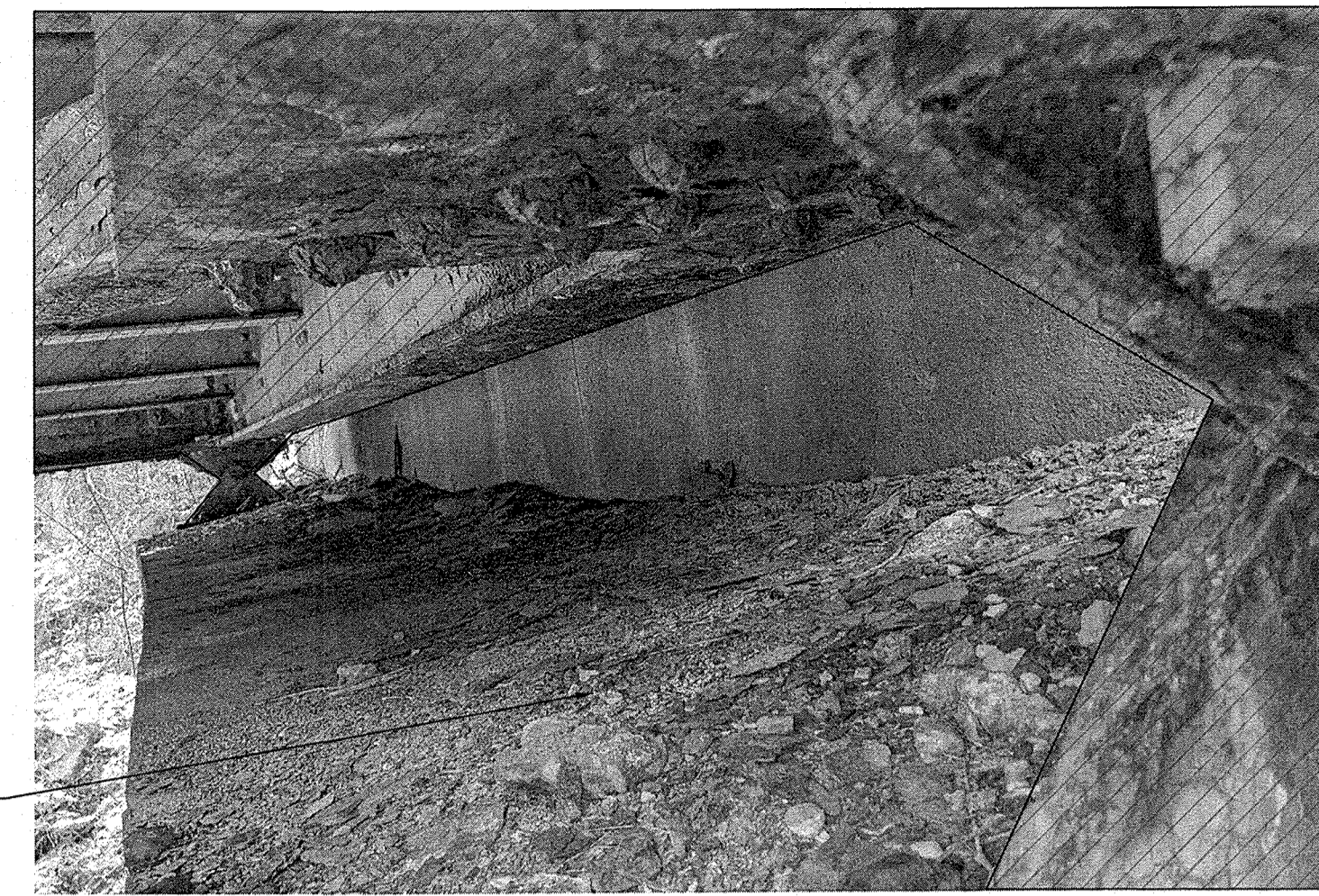
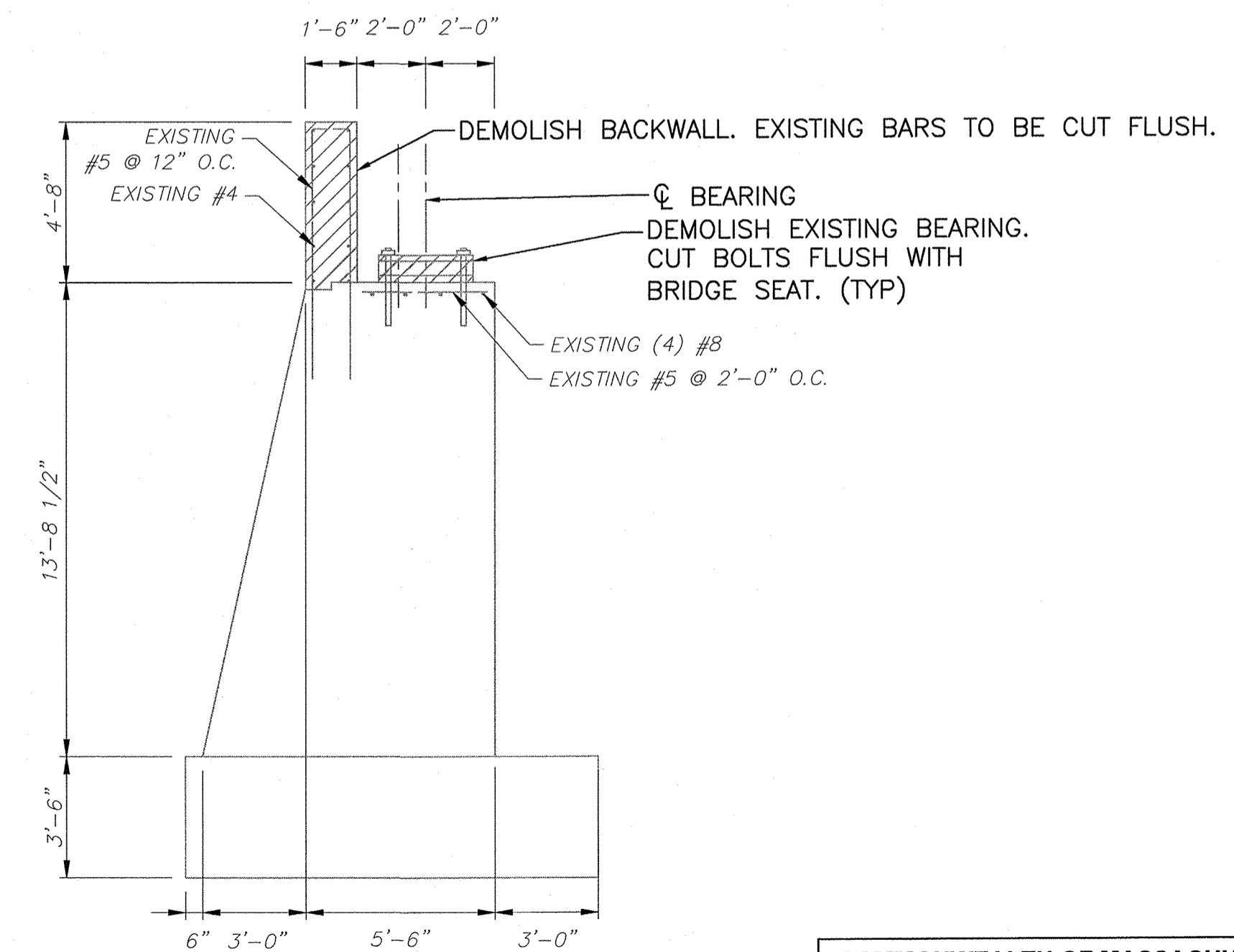


PHOTO 3
NOT TO SCALE



PHOTO 4
NOT TO SCALE



SECTION 1 - EXISTING WEST ABUTMENT
SCALE: 1/4" = 1'-0"

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
CONCEPTUAL DESIGN IS ACCEPTABLE TO MASSDOT FOR CONTRACTING
1/14/2022
STATE BRIDGE ENGINEER DATE



**Division Street
Temporary
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Town of Great Barrington, MA

Division Street over Housatonic River

MASSDOT
STRUCTURE NO.
G-11-002 (04F)

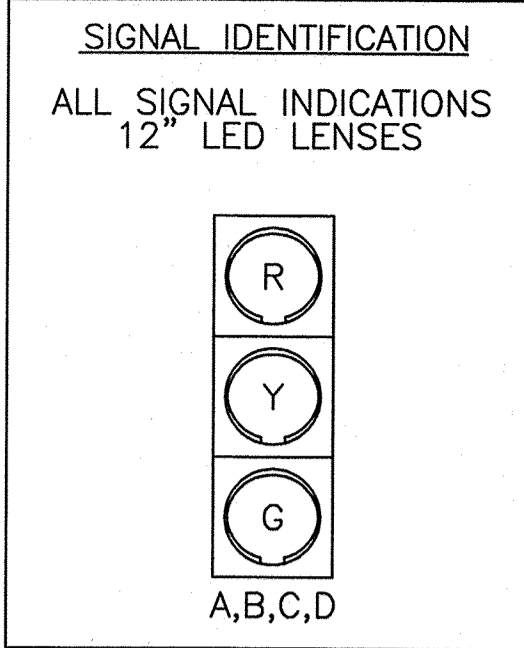
MARK	DATE	DESCRIPTION
PROJECT NO:	G5000-015C	
DATE:	DECEMBER 2021	
FILE:	G5000-015C_SHEET 06.dwg	
DRAWN BY:	JMF/DRF/AGB	
CHECKED:	BRB / DSH	
APPROVED:	FJH	

EXISTING BRIDGE
WEST ABUTMENT
SELECTIVE DEMOLITION

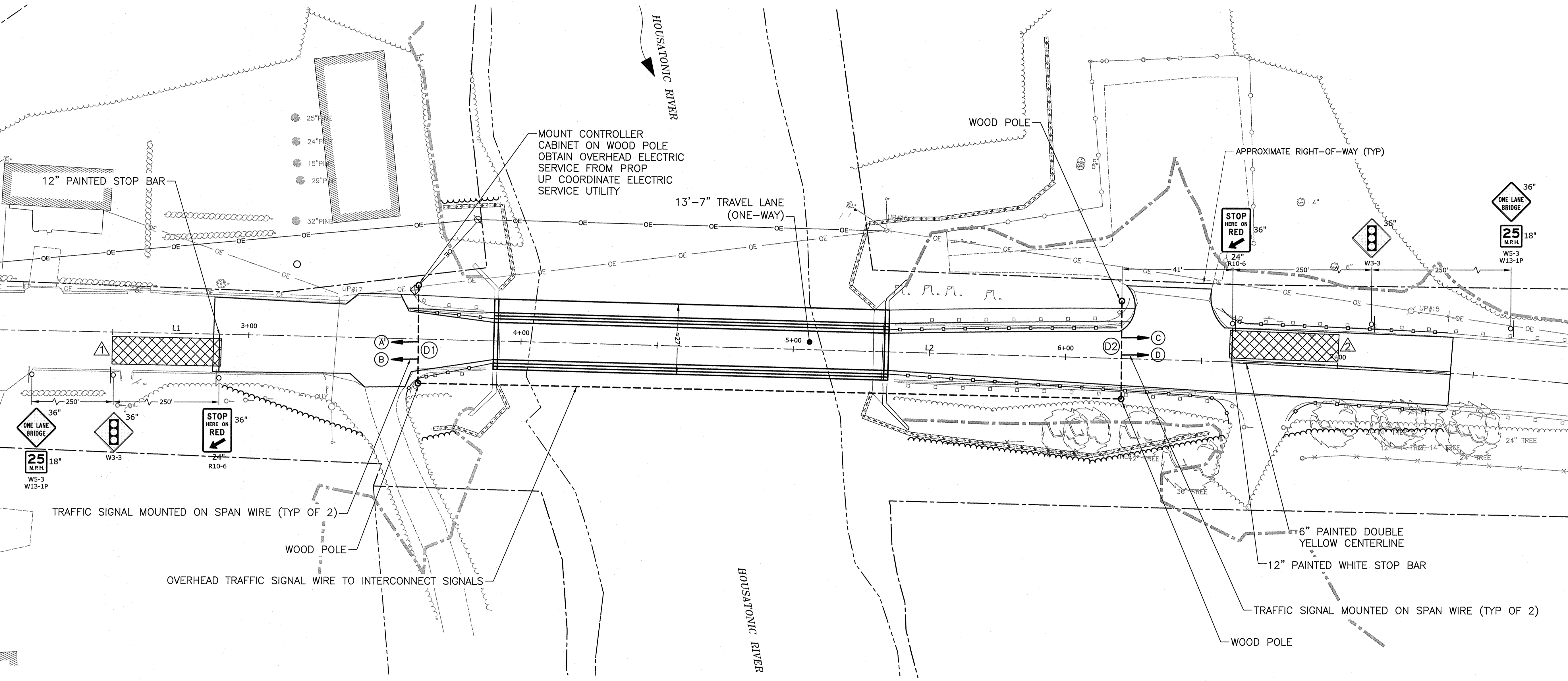
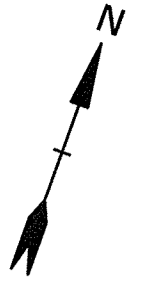
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TIMING PLAN			Ø1			Ø2		
STREET	DIRECTION	HOUSINGS	GRN	CL	CL	GRN	CL	CL
DIVISION ST	EB	A,B	G	Y	R	R	R	R
DIVISION ST	WB	C,D	R	R	R	G	Y	R
TIMING (IN SECONDS)	MINIMUM GREEN (INITIAL)		10			10		
	PASSAGE TIME (VEHICLE)		3			3		
	MAXIMUM 1		20			20		
	MAXIMUM 2		-			-		
	YELLOW CLEARANCE			3			3	
RED CLEARANCE				10			10	
RECALL			MAX			MAX		
MEMORY			NON-LOCK			NON-LOCK		



VIDEO DETECTION ZONES			
VIDEO DETECTOR ZONE	SIZE	OPERATION	Ø EXT.
▲	6' x 40'	PRESENCE	Ø1
▲	6' x 40'	PRESENCE	Ø2



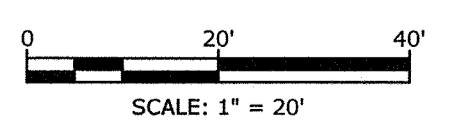
**Division Street
Temporary
Superstructure
Replacement**

Town of Great Barrington, MA

Division Street over Housatonic River

MASSDOT
STRUCTURE NO.
G-11-002 (04F)

- NOTES:
- CONSTRUCTION OF TRAFFIC CONTROL EQUIPMENT AND SIGNS SHALL CONFORM TO MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", 2021 EDITION, MASSDOT "STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING", 1968, AND FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 2009 EDITION WITH MASSACHUSETTS AMENDMENTS.
 - TRAFFIC SIGNAL SPAN WIRE AND POLES SHALL CONFORM TO MASSDOT "2015 OVERHEAD SIGNAL STRUCTURE AND FOUNDATION STANDARD DRAWINGS", MOST RECENT EDITION.
 - ALL TRAFFIC CONTROL SIGNAL EQUIPMENT SHALL BE LISTED ON MASSDOT "QUALIFIED TRAFFIC CONTROL EQUIPMENT (QTCE)" LIST.
 - REMOVE ALL CONFLICTING PAVEMENT MARKINGS.
 - VIDEO DETECTION ZONES ARE TO BE FIELD ADJUSTED AND ARE SUBJECT TO APPROVAL BY THE ENGINEER.
 - ALL SIGNAL IDENTIFICATIONS SHALL BE 12" LED.
 - ELECTRICAL SERVICE FOR SIGNAL, PROPOSED POLE AND WIRING LOCATIONS SHALL BE COORDINATED WITH UTILITY COMPANY.



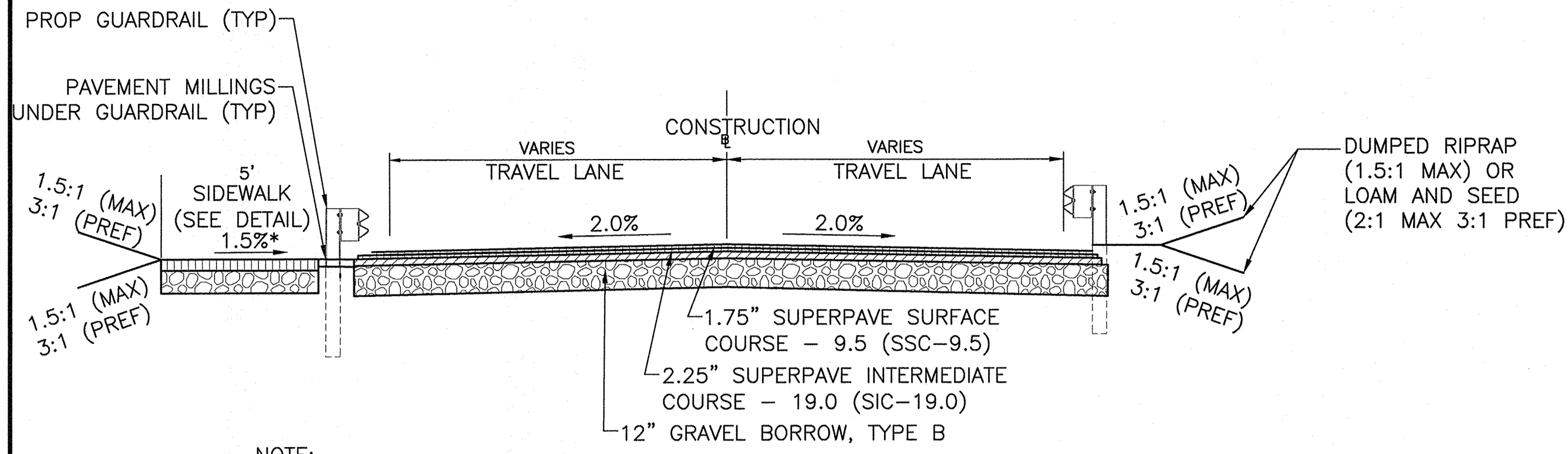
MARK	DATE	DESCRIPTION

PROJECT NO:	G5000-015C
DATE:	DECEMBER 2021
FILE:	G-5000-015C-TEMP SIGNAL.dwg
DRAWN BY:	JMF/DRF/AGB
CHECKED:	BRB / DSH
APPROVED:	FIH

TEMPORARY TRAFFIC CONTROL SIGNAL PLAN

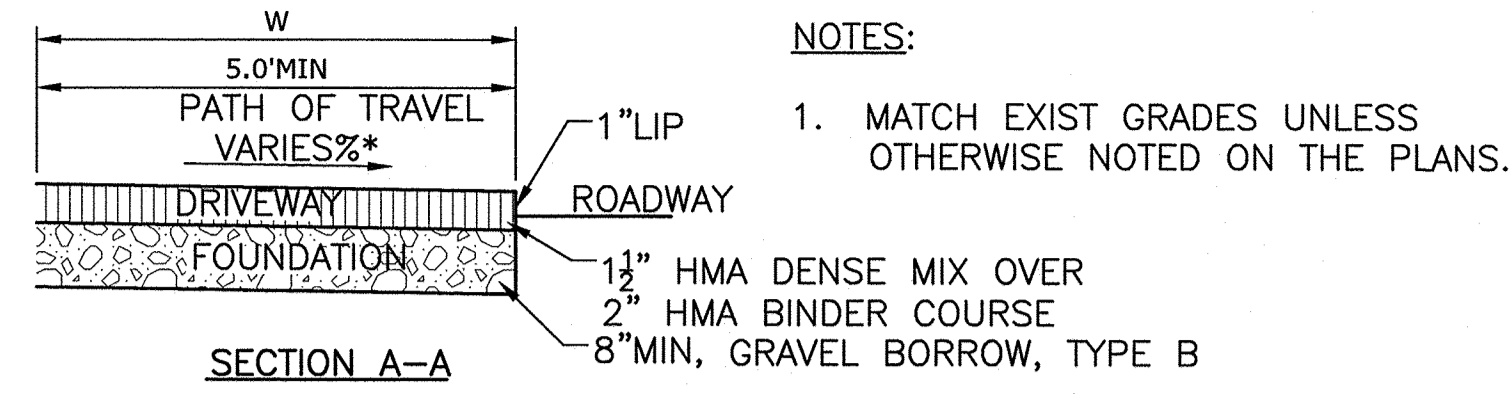
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 Plotted On: Nov 29, 2021 3:05pm By: RCeae
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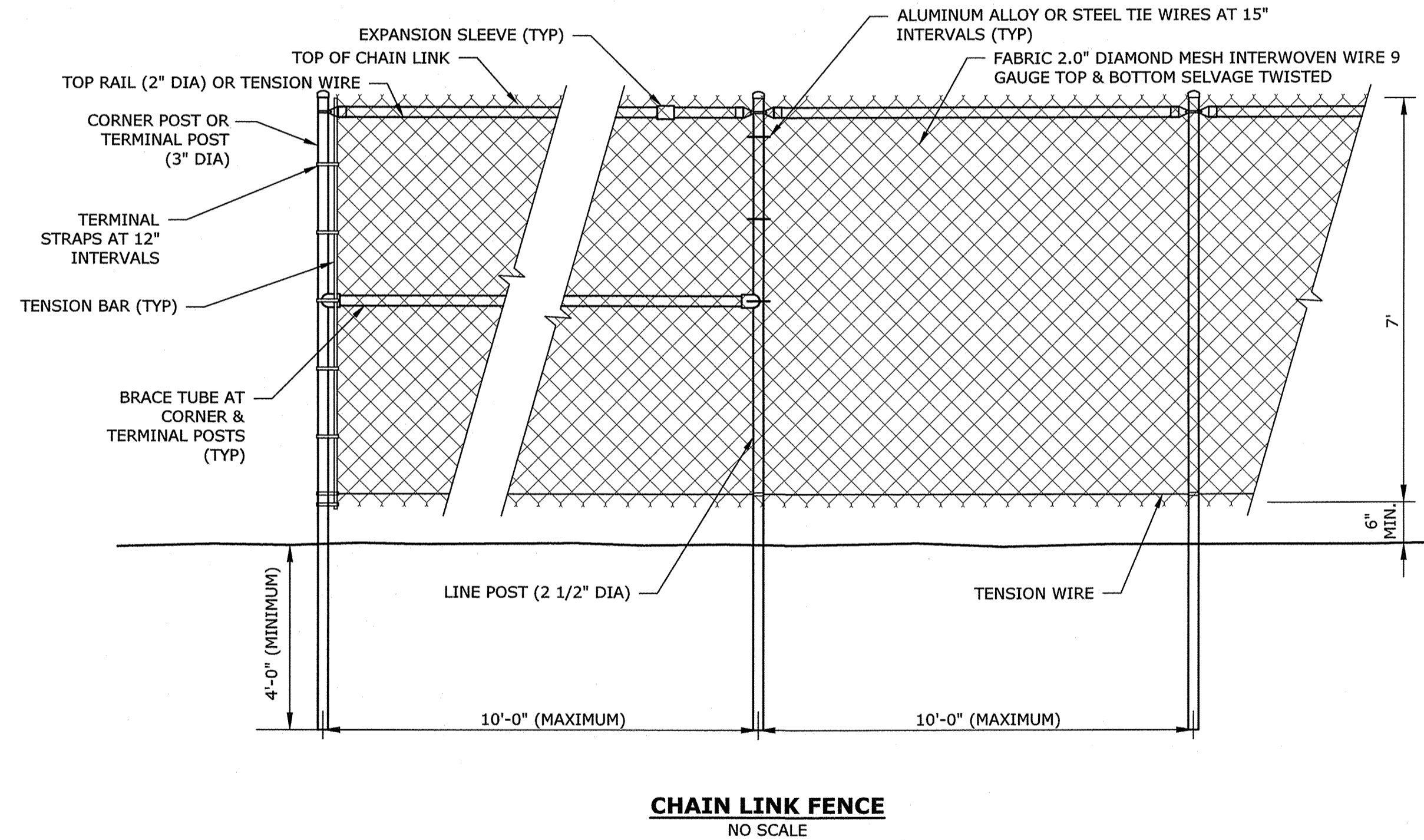
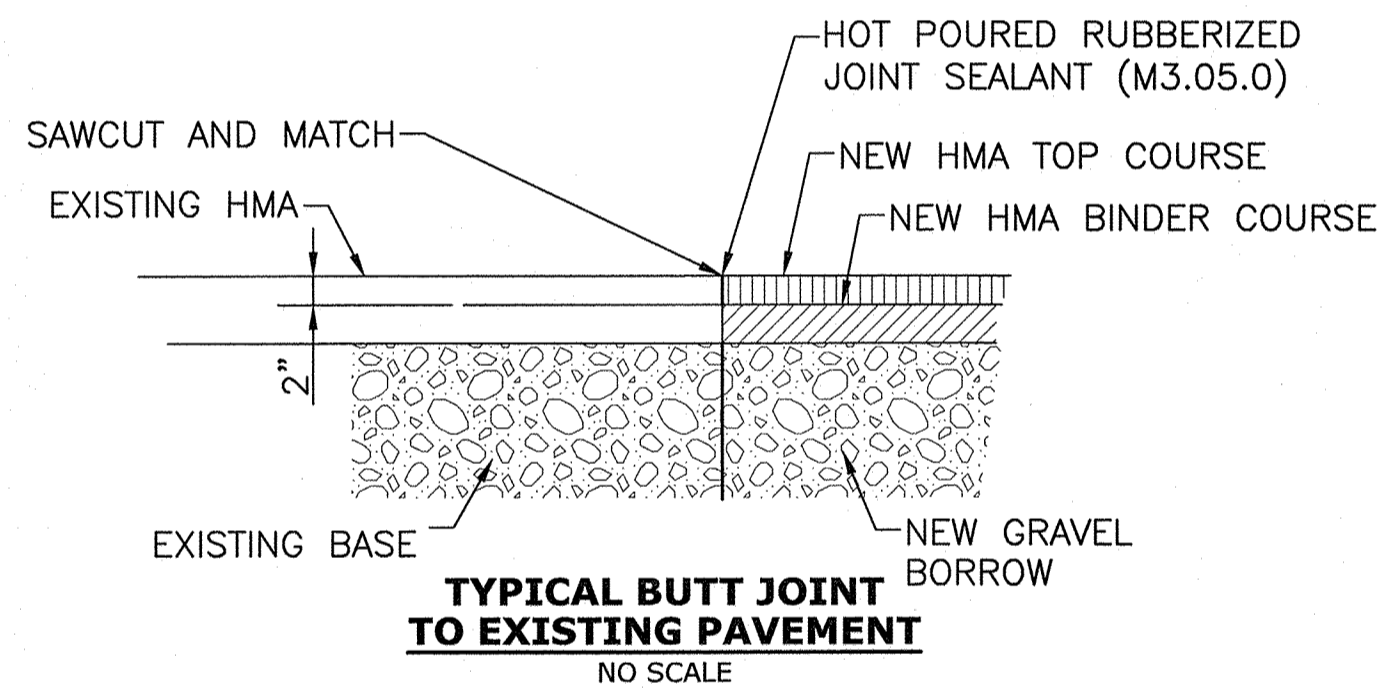
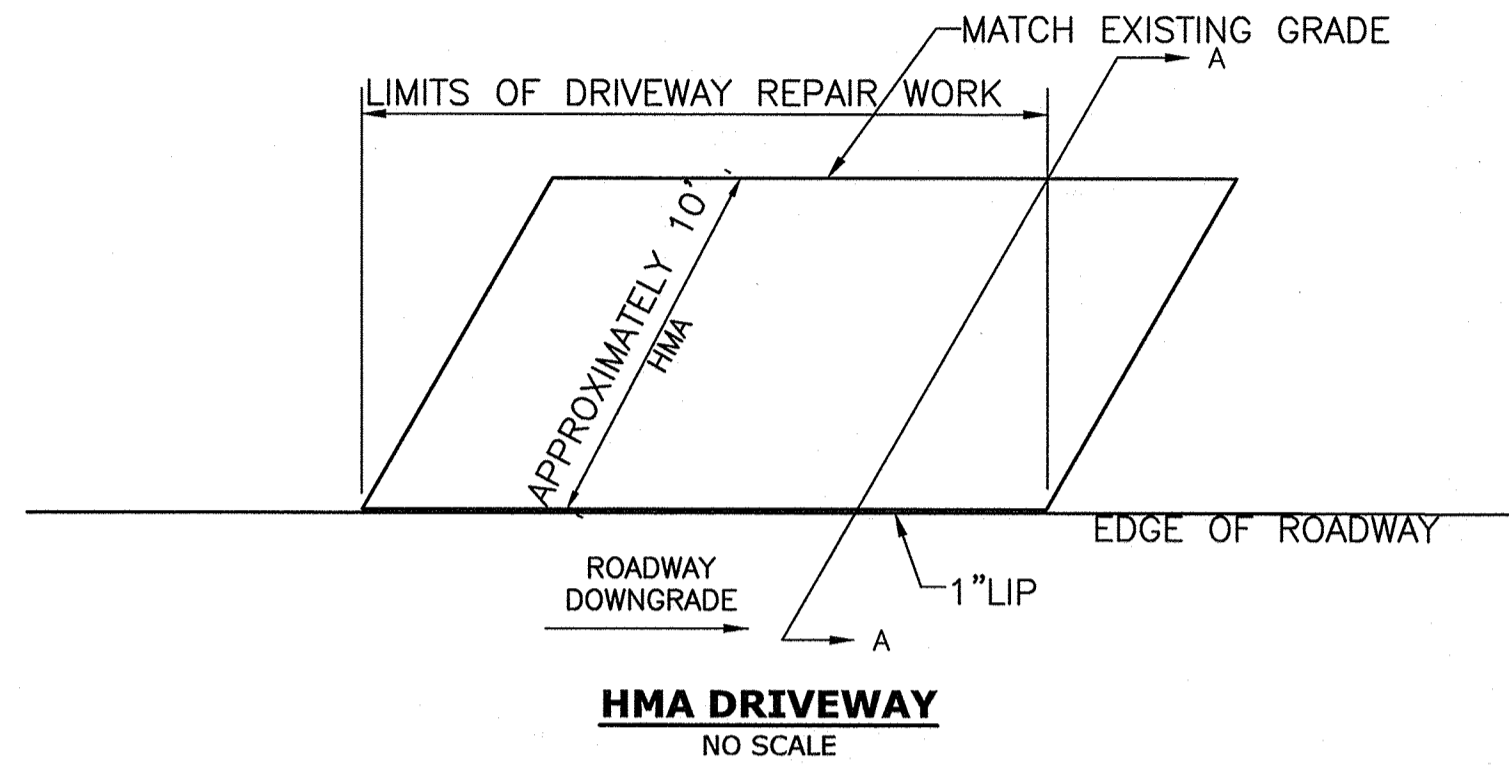
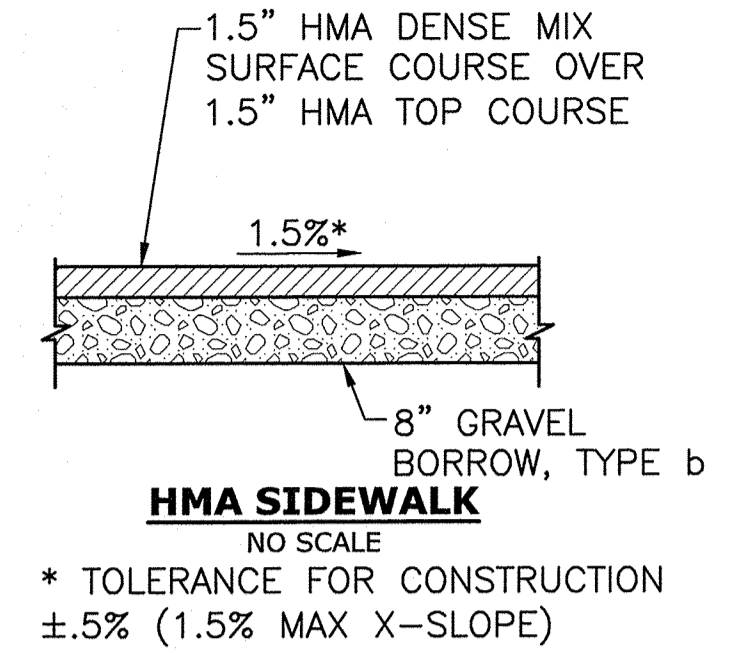


- NOTE:**
- ROAD SECTION SHOWN IS CONSIDERED TYPICAL. FIELD MODIFICATIONS TO MATCH EXISTING CONDITIONS ARE ANTICIPATED.
 - INSTALL GUARDRAIL AS SHOWN ON THE PLANS.

**TYPICAL SECTION
FULL DEPTH RECONSTRUCTION**
NO SCALE



- NOTES:**
- MATCH EXIST GRADES UNLESS OTHERWISE NOTED ON THE PLANS.



**Division Street
Temporary
Superstructure
Replacement**

Town of Great
Barrington, MA

Division Street over
Housatonic River

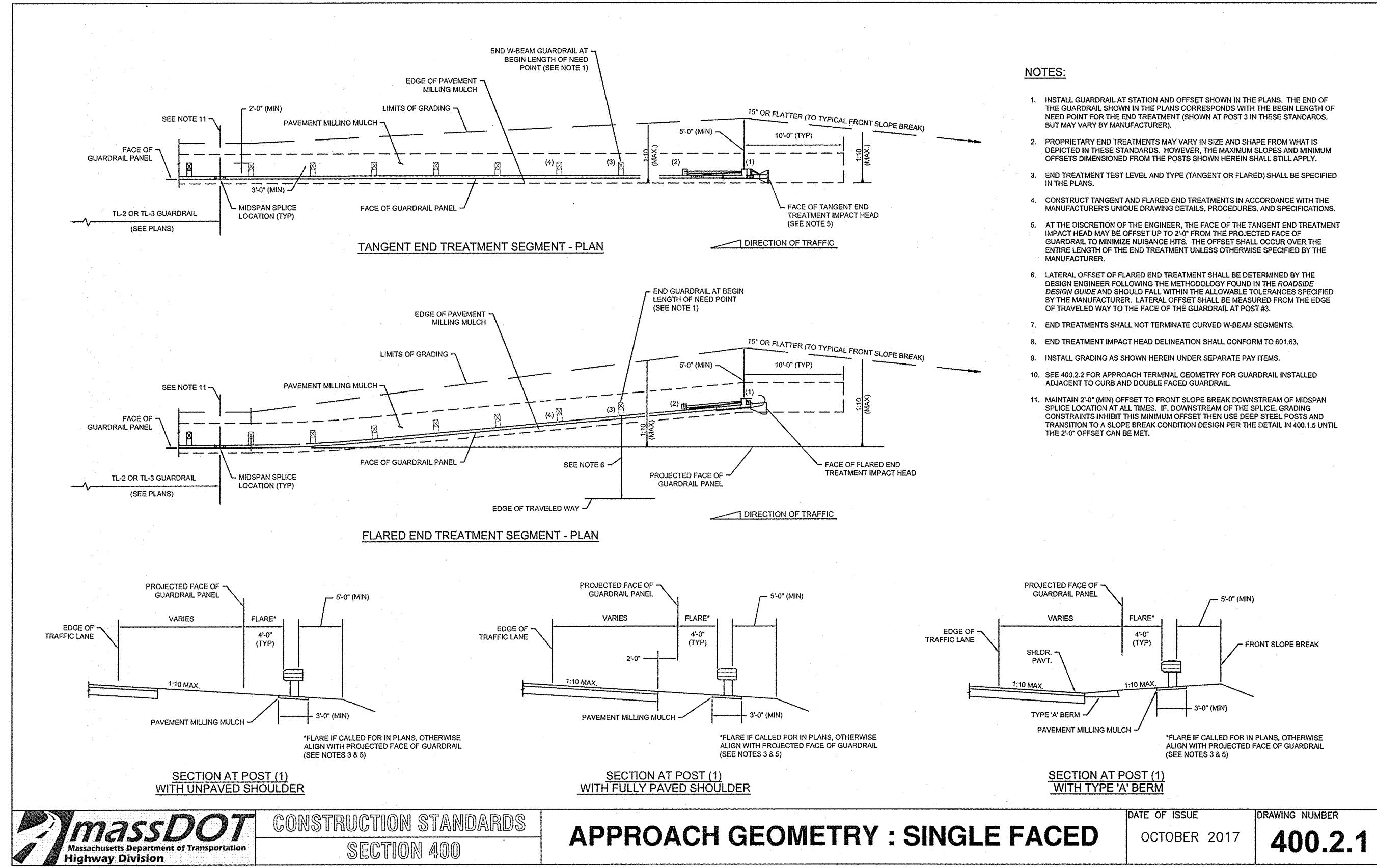
MASSDOT
STRUCTURE NO.
G-11-002 (04F)

MARK	DATE	DESCRIPTION
PROJECT NO:	G5000-015C	
DATE:	DECEMBER 2021	
FILE:	G-5000-015C-Site Details.dwg	
DRAWN BY:	JMF/DRF/AGB	
CHECKED:	BRB / DSH	
APPROVED:	FJH	

SITE DETAILS 2

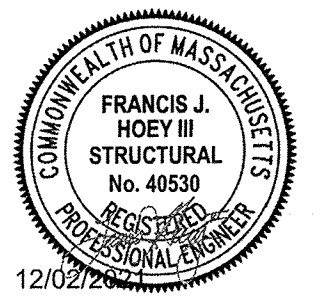
SCALE: AS SHOWN

SHEET 10



- NOTES:**
1. INSTALL GUARDRAIL AT STATION AND OFFSET SHOWN IN THE PLANS. THE END OF THE GUARDRAIL SHOWN IN THE PLANS CORRESPONDS WITH THE BEGIN LENGTH OF NEED POINT FOR THE END TREATMENT (SHOWN AT POST 3 IN THESE STANDARDS, BUT MAY VARY BY MANUFACTURERS).
 2. PROPRIETARY END TREATMENTS MAY VARY IN SIZE AND SHAPE FROM WHAT IS DEPICTED IN THESE STANDARDS. HOWEVER, THE MAXIMUM SLOPES AND MINIMUM OFFSETS DIMENSIONED FROM THE POSTS SHOWN HEREIN SHALL STILL APPLY.
 3. END TREATMENT TEST LEVEL AND TYPE (TANGENT OR FLARED) SHALL BE SPECIFIED IN THE PLANS.
 4. CONSTRUCT TANGENT AND FLARED END TREATMENTS IN ACCORDANCE WITH THE MANUFACTURER'S UNIQUE DRAWING DETAILS, PROCEDURES, AND SPECIFICATIONS.
 5. AT THE DISCRETION OF THE ENGINEER, THE FACE OF THE TANGENT END TREATMENT IMPACT HEAD MAY BE OFFSET UP TO 2'-0" FROM THE PROJECTED FACE OF GUARDRAIL TO MINIMIZE NUISANCE HITS. THE OFFSET SHALL OCCUR OVER THE ENTIRE LENGTH OF THE END TREATMENT UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER.
 6. LATERAL OFFSET OF FLARED END TREATMENT SHALL BE DETERMINED BY THE DESIGN ENGINEER FOLLOWING THE METHODOLOGY FOUND IN THE ROADSIDE DESIGN GUIDE AND SHOULD FALL WITHIN THE ALLOWABLE TOLERANCES SPECIFIED BY THE MANUFACTURER. LATERAL OFFSET SHALL BE MEASURED FROM THE EDGE OF TRAVELED WAY TO THE FACE OF THE GUARDRAIL AT POST #3.
 7. END TREATMENTS SHALL NOT TERMINATE CURVED W-BEAM SEGMENTS.
 8. END TREATMENT IMPACT HEAD DELINEATION SHALL CONFORM TO 601.63.
 9. INSTALL GRADING AS SHOWN HEREIN UNDER SEPARATE PAY ITEMS.
 10. SEE 402.2.2 FOR APPROACH TERMINAL GEOMETRY FOR GUARDRAIL INSTALLED ADJACENT TO CURB AND DOUBLE FACED GUARDRAIL.
 11. MAINTAIN 2'-0" (MIN) OFFSET TO FRONT SLOPE BREAK DOWNSTREAM OF MIDSPAN SPURGE LOCATION AT ALL TIMES. IF DOWNSTREAM OF THE SPURGE, GRADING CONSTRAINTS INHIBIT THIS MINIMUM OFFSET THEN USE DEEP-STEEL POSTS AND TRANSITION TO A SLOPE BERM. CONDITION DESIGN PER THE DETAIL IN 401.1.5 UNTIL THE 2'-0" OFFSET CAN BE MET.

<p>CONSTRUCTION STANDARDS SECTION 400</p>	<p>APPROACH GEOMETRY : SINGLE FACED</p>	DATE OF ISSUE	DRAWING NUMBER
		OCTOBER 2017	400.2.1



**Division Street
Temporary
Superstructure
Replacement**

Town of Great
Barrington, MA

Division Street over
Housatonic River

MASSDOT
STRUCTURE NO.
G-11-002 (04F)

MARK	DATE	DESCRIPTION

PROJECT NO:	G5000-015C
DATE:	DECEMBER 2021
FILE:	G5000-015C_SHEET 17_18 TRANSITION DETAILS.dwg
DRAWN BY:	JMF/DRF/AGB
CHECKED:	BRB / DSH
APPROVED:	FJH

COMMONWEALTH OF MASSACHUSETTS
MassDOT, Highway Division
**CONCEPTUAL DESIGN IS ACCEPTABLE
TO MASSDOT FOR CONTRACTING**

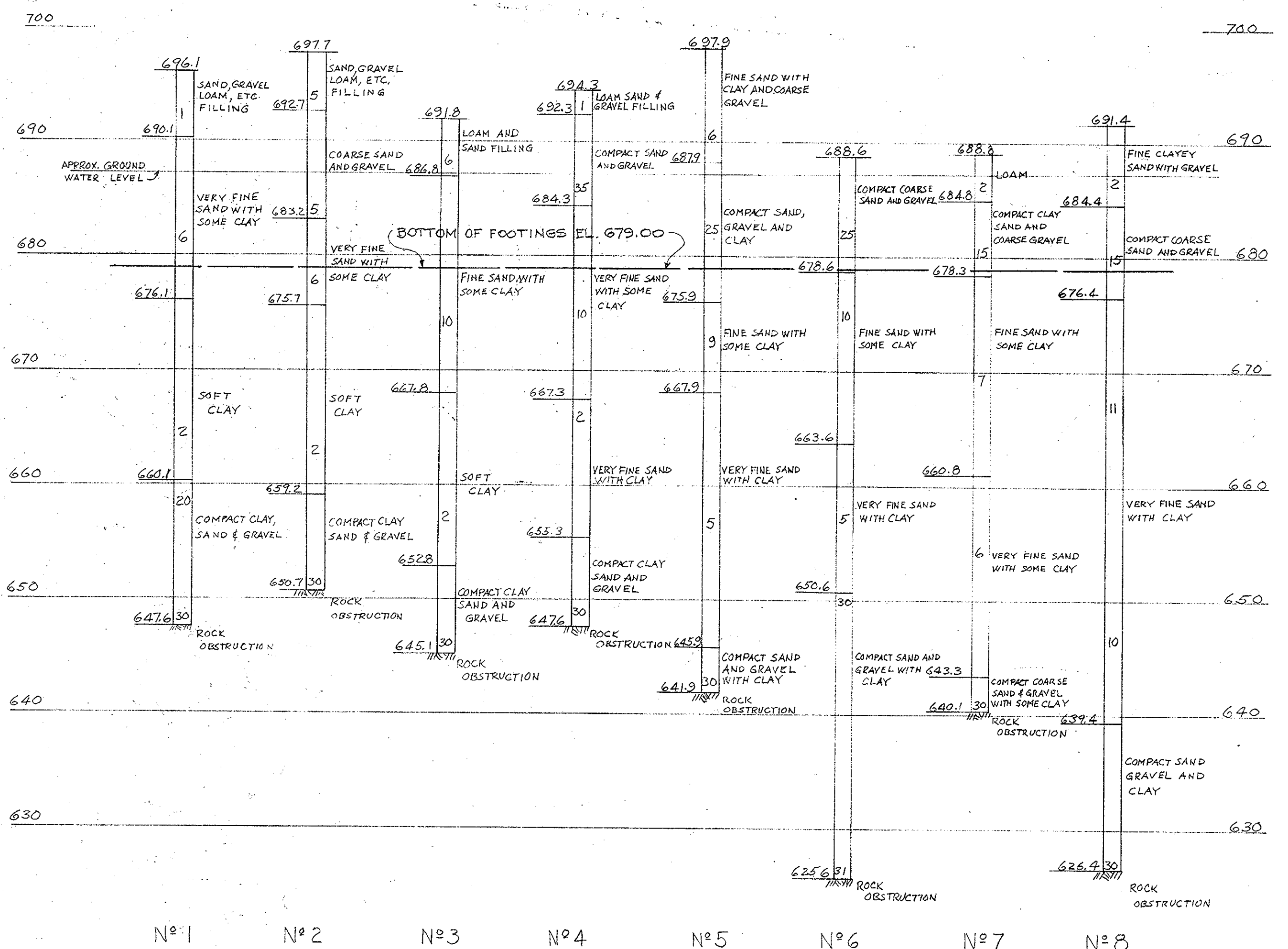
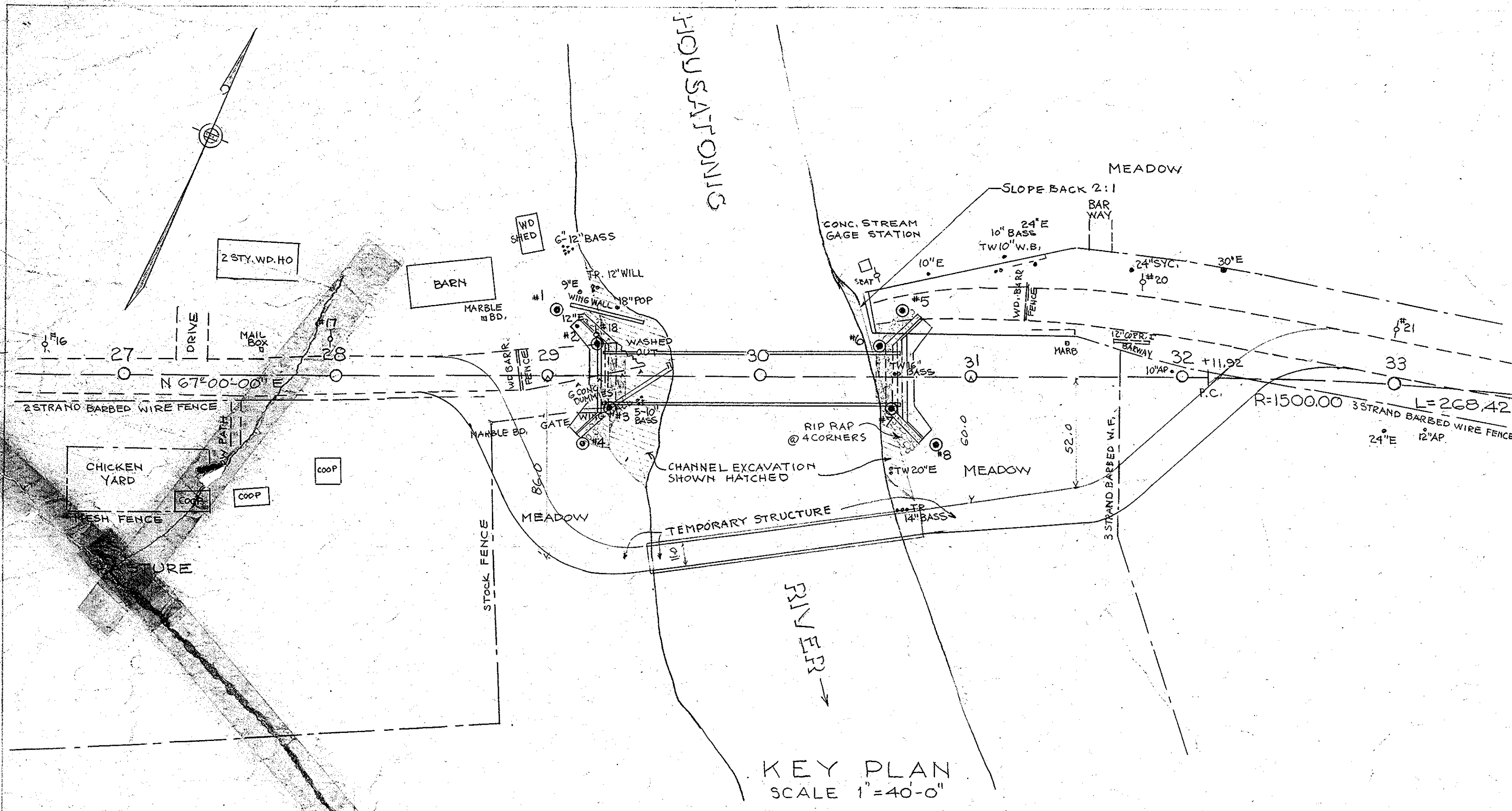
[Signature]
1/14/2022
STATE BRIDGE ENGINEER DATE

GUARDRAIL, TRANSITION
RAIL ELEVATION AND
DETAILS 2

SCALE:

SHEET 17

Last Saved: 11/30/2021
 Printed On: Dec 01, 2021 - 2:26pm By: JFitzpatrick
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BORING DATA
SCALE 1"=8'-0"
BORINGS TAKEN APR. 1950

BORING NOTES

LOCATION OF BORINGS SHOWN ON KEY PLAN THUS \odot N#2 BORINGS TAKEN FOR PURPOSE OF DESIGN AND SHOW CONDITIONS AT BORING POINTS ONLY, BUT DO NOT NECESSARILY SHOW NATURE OF MATERIAL TO BE ENCOUNTERED IN CONNECTION WITH THE CONSTRUCTION OF THE BRIDGE. FIGURES IN COLUMNS INDICATE BLOWS PER FOOT ON 1" PIPE PRODUCED BY 30" FALL OF 140" HAMMER. SAMPLES FROM BORINGS MAY BE SEEN AT THE OFFICE OF THE BRIDGE ENGINEER MR. R.O. SPOFFORD, ROOM 609.

GENERAL NOTES

FOUNDATIONS:
MAY BE ALTERED IF NECESSARY TO SUIT CONDITIONS OF CONSTRUCTION

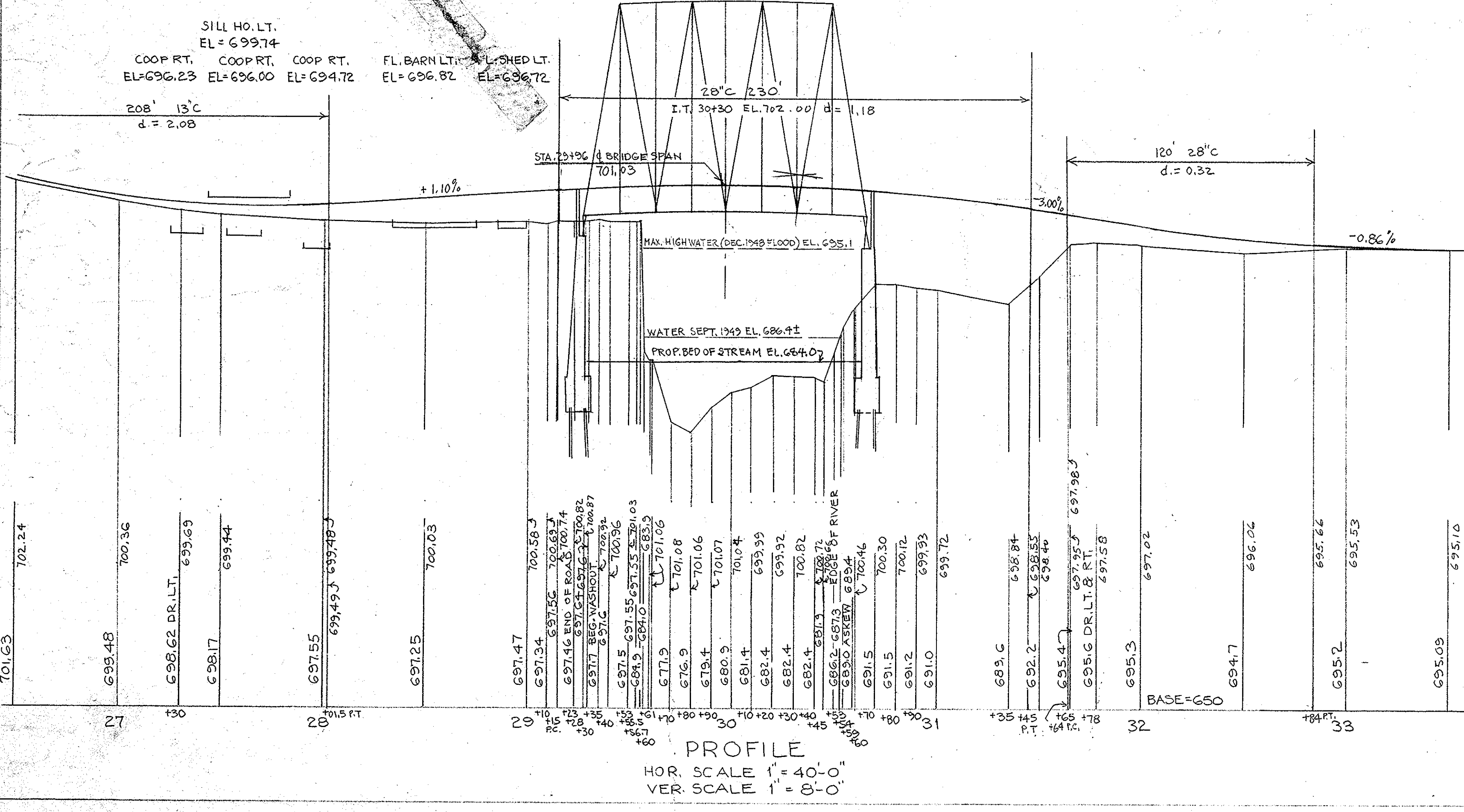
DESIGN:
ACCORDING TO SPECIFICATIONS OF AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS (1949 ED.) FOR H15-44 LOADING.

BENCH MARK:
STA. 28+72 RT. 35' SPIKE ROOT 16" ELM. EL. 694.30
SEA LEVEL DATUM OF 1929

DATE:
TO BE PLACED ON INSIDE FACE OF SOUTHWESTERLY AND NORTH-EASTERLY END POSTS. DETAILS OF DATE WILL BE FURNISHED ON A SEPARATE SHEET.

ESTIMATED QUANTITIES (NOT GUARANTEED)

CLASS A ROCK EXCAVATION	50	CU.YDS.
BRIDGE EXCAVATION	950	CU.YDS.
CHANNEL EXCAVATION	950	CU.YDS.
CLASS B ROCK EXCAVATION	50	CU.YDS.
GRAVEL BORROW	350	CU.YDS.
STRIPPING GRAVEL PITS	30	CU.YDS.
CLASS I BIT. CONC. PAVEMENT TYPE I-1	52	TONS
TIMBER PILES	6400	LIN. FT.
CLASS A CEM. CONC. MASONRY	89	CU.YDS.
CLASS B CEM. CONC. MASONRY	580	CU.YDS.
STEEL REINF. FOR STRUCTURES	24000	POUNDS
STRUCTURAL STEEL	222000	POUNDS
MEMBRANE WATERPROOFING	1	LUMP SUM
RIP RAP	150	CU.YDS.
METAL BRIDGE RAILINGS	1	LUMP SUM
GRANITE CURB TYPE VA STR (C11)	1	LUMP SUM
REMOVAL OF TEMPORARY STRUCTURE	1	LUMP SUM



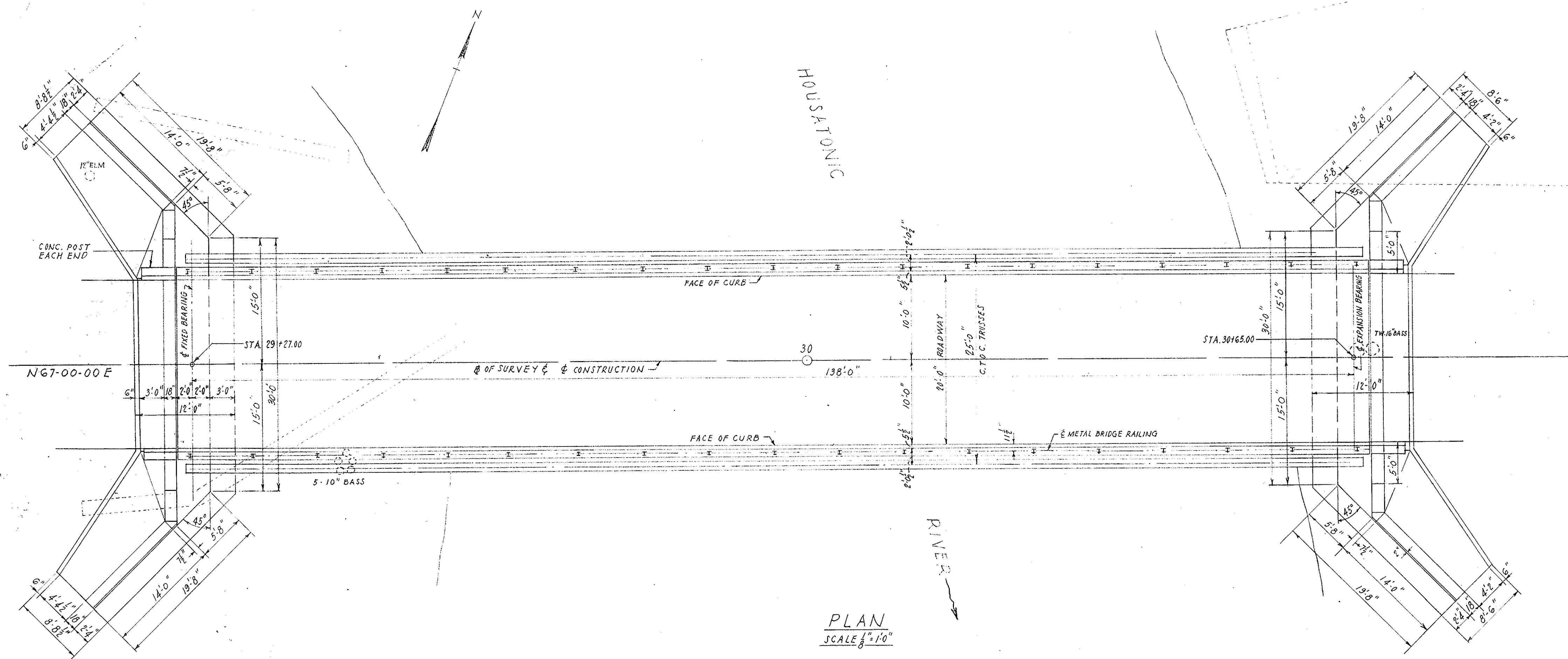
ADVERTISING 5-6-50 CONSTRUCTION 5-6-50

THE COMMONWEALTH OF MASSACHUSETTS
PROPOSED BRIDGE
GREAT BARRINGTON
DIVISION ST. STA 30±
OVER HOUSATONIC RIVER
SCALES AS NOTED
OFFICE OF
DEPARTMENT OF PUBLIC WORKS
100 NASHUA ST. BOSTON, MASS.
MAY 1950

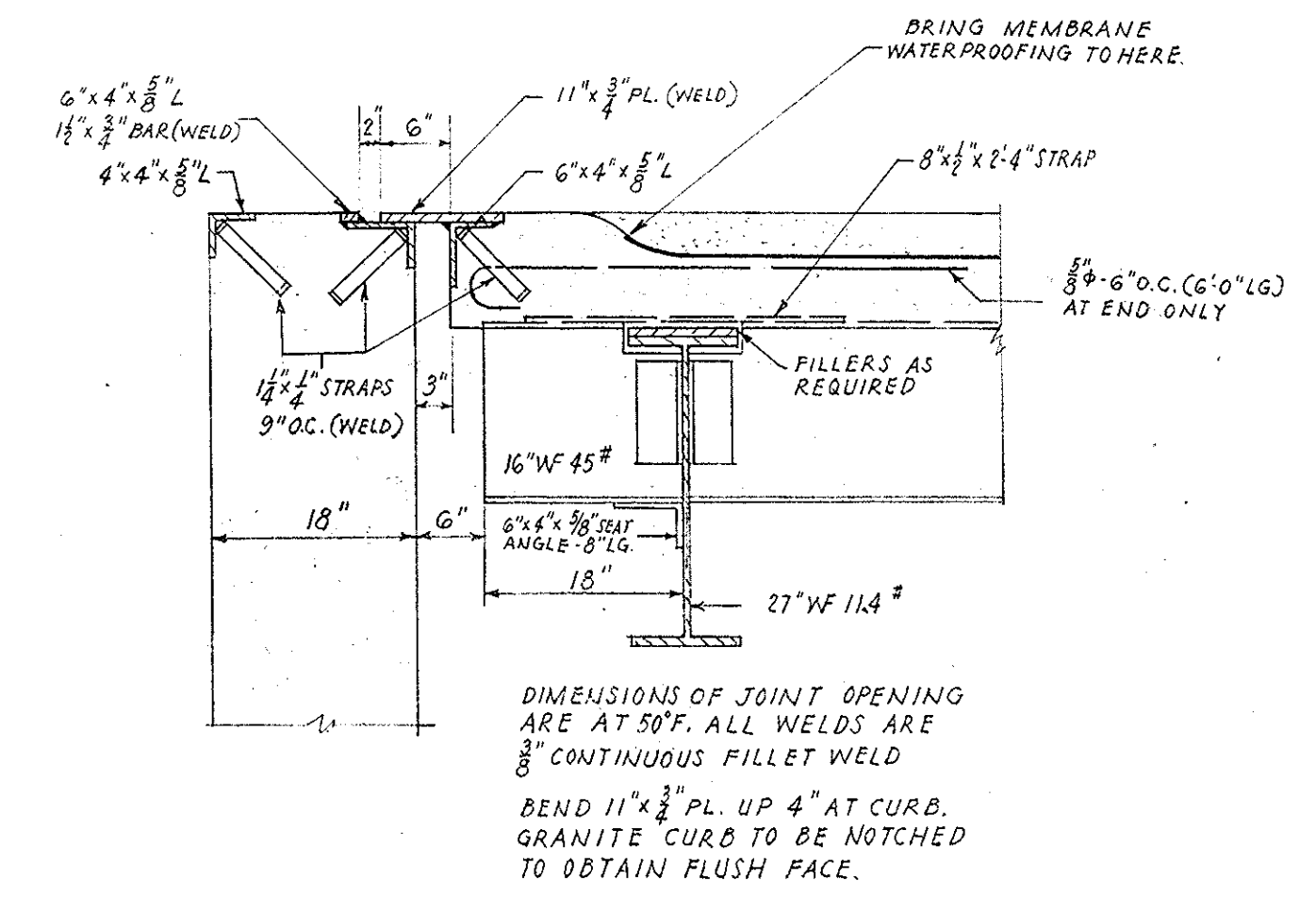
R.O. Spofford BRIDGE ENGINEER
P.H. Keenan CHIEF ENGINEER

DESIGNED BY J.J.M. DRAWN BY J.J.M. CHECKED BY E.R.G.

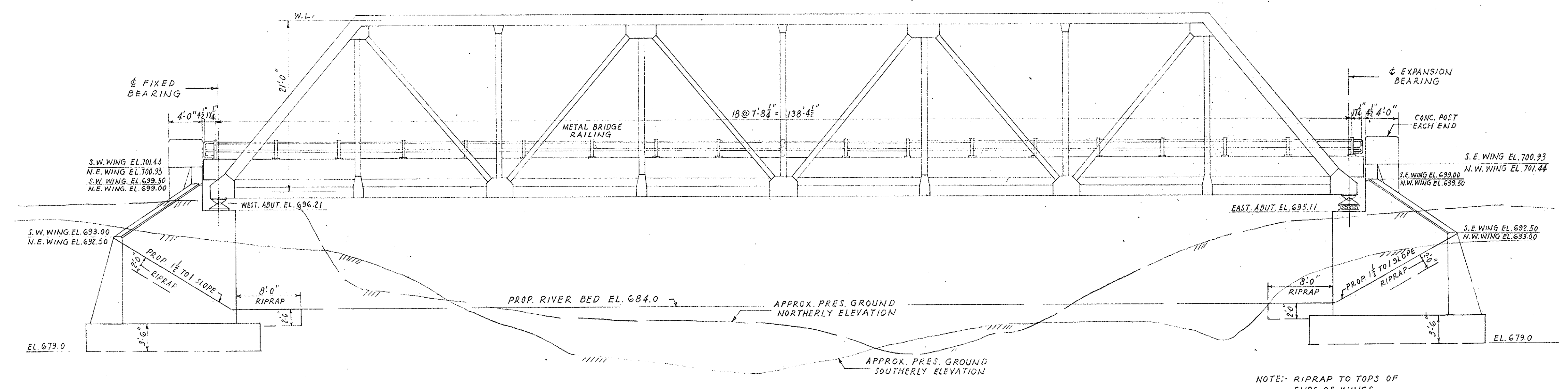
SHEET 1 OF 5 SHEETS BRIDGE N° G-11-2



PLAN
SCALE 1/8" = 1'-0"

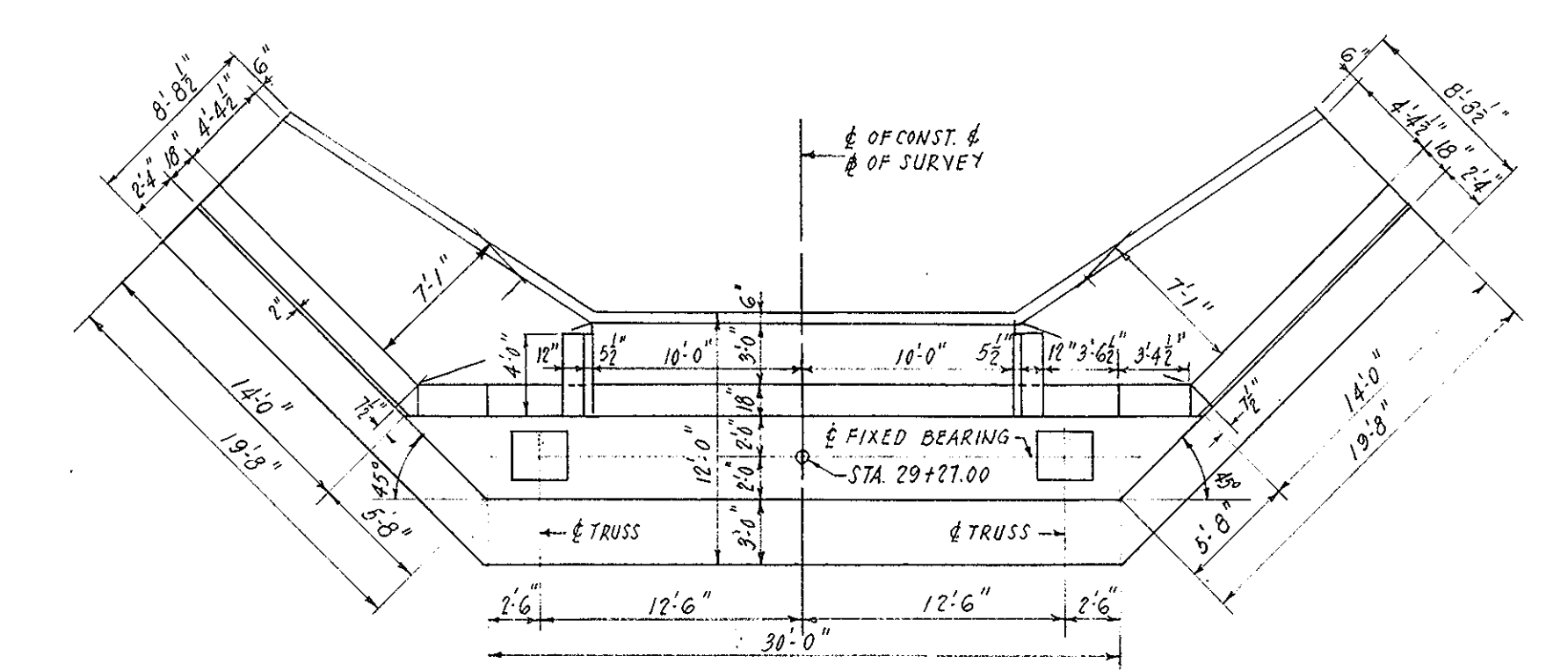


SECTION THRU ROADWAY EXPANSION JOINT
SCALE 3/8" = 1'-0"
(JOINT AT FIXED END SIMILAR)

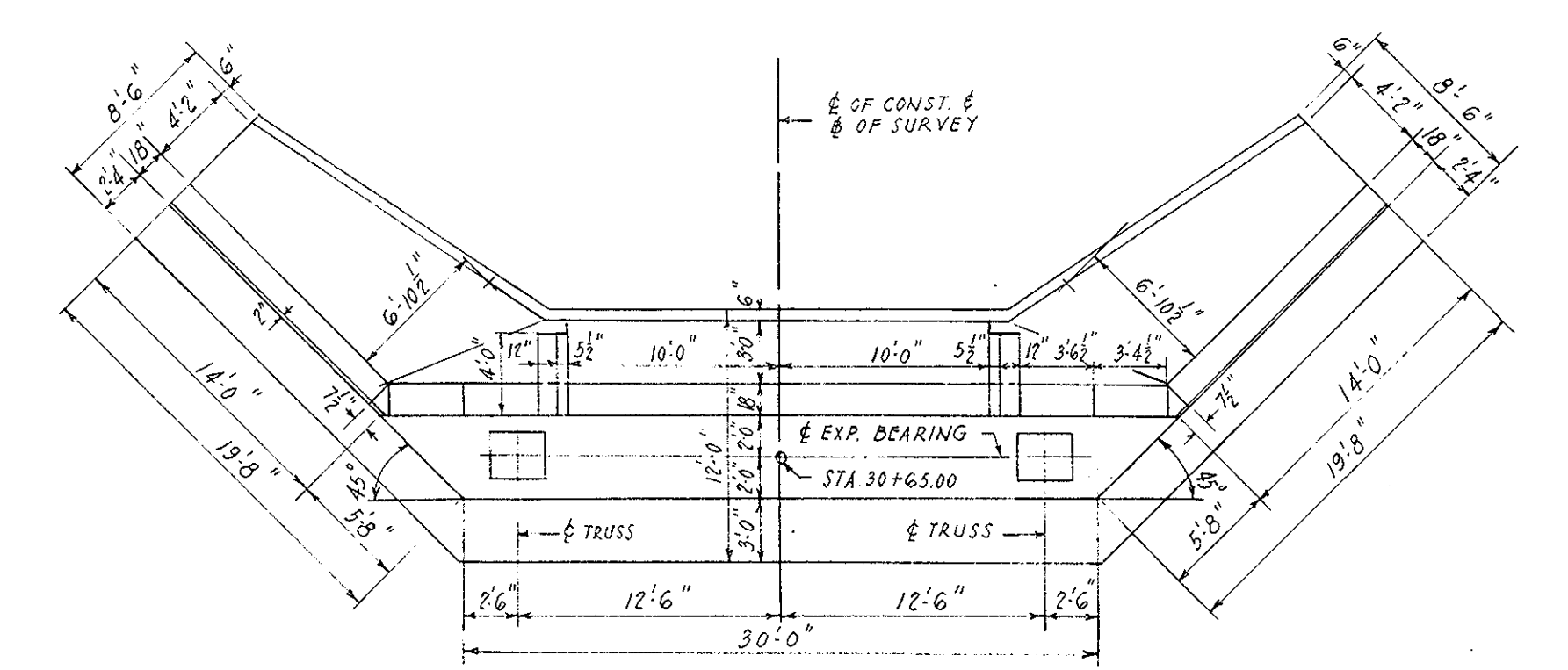


SOUTHERLY ELEVATION
SCALE 1/8" = 1'-0"
NORTHERLY ELEVATION SIMILAR

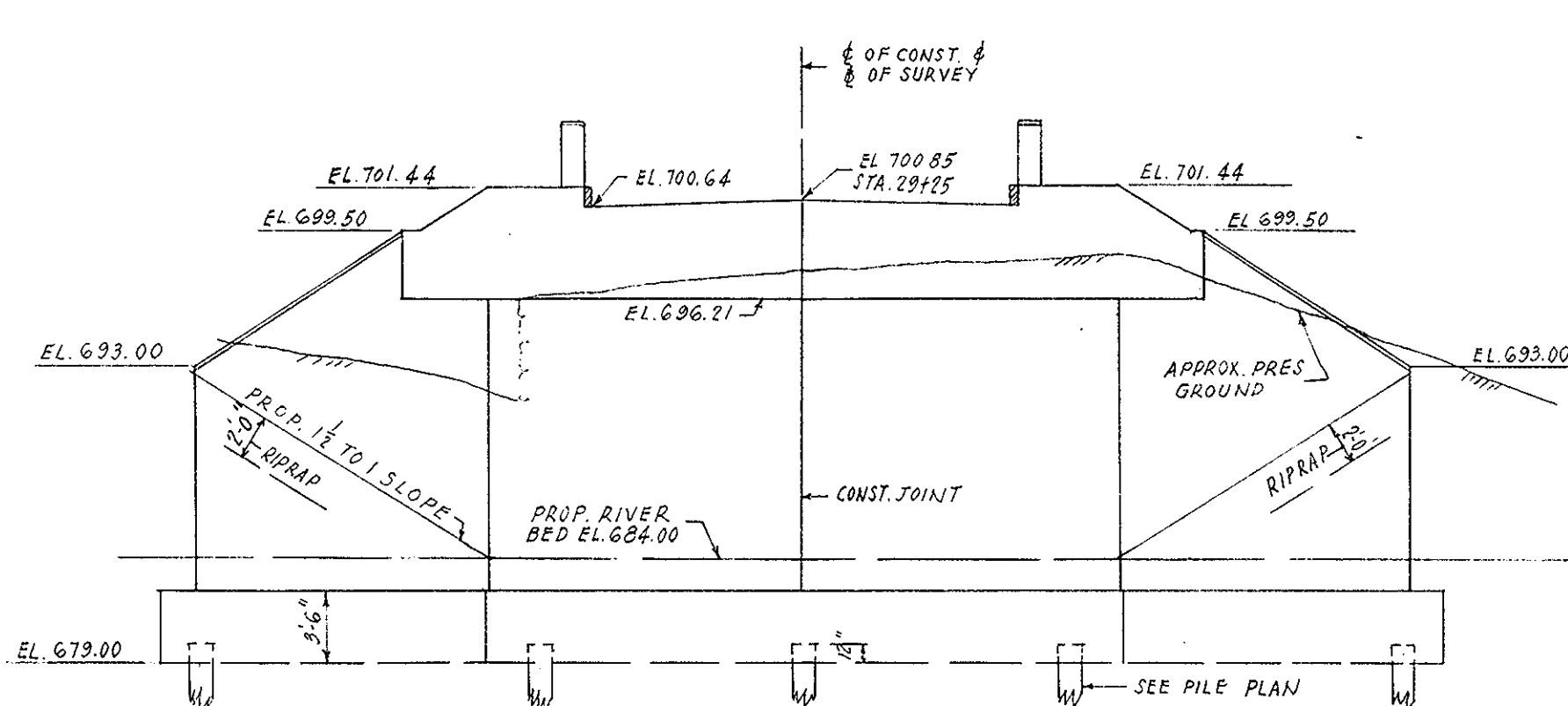
5-6-50	CONSTRUCTION
5-8-50	ADVERTISING
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	



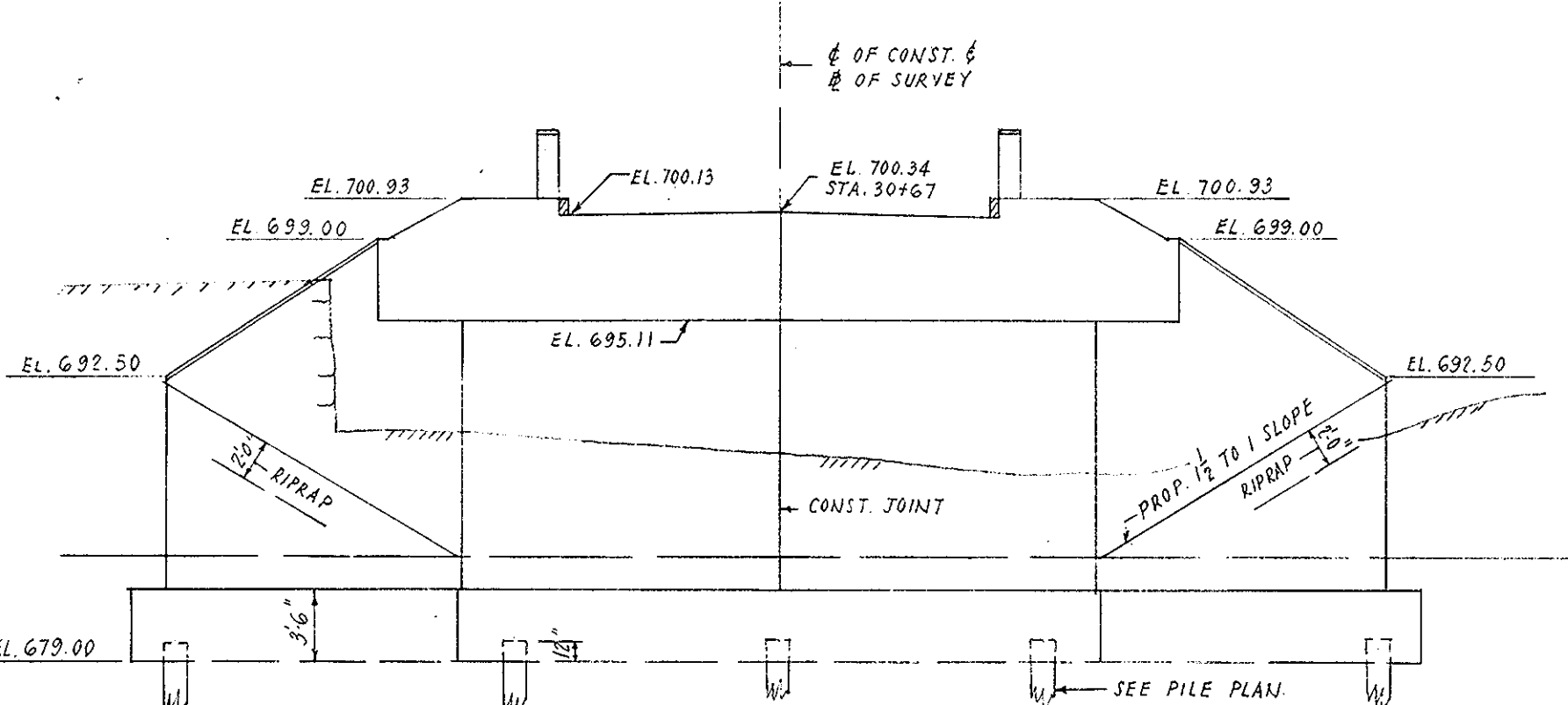
PLAN



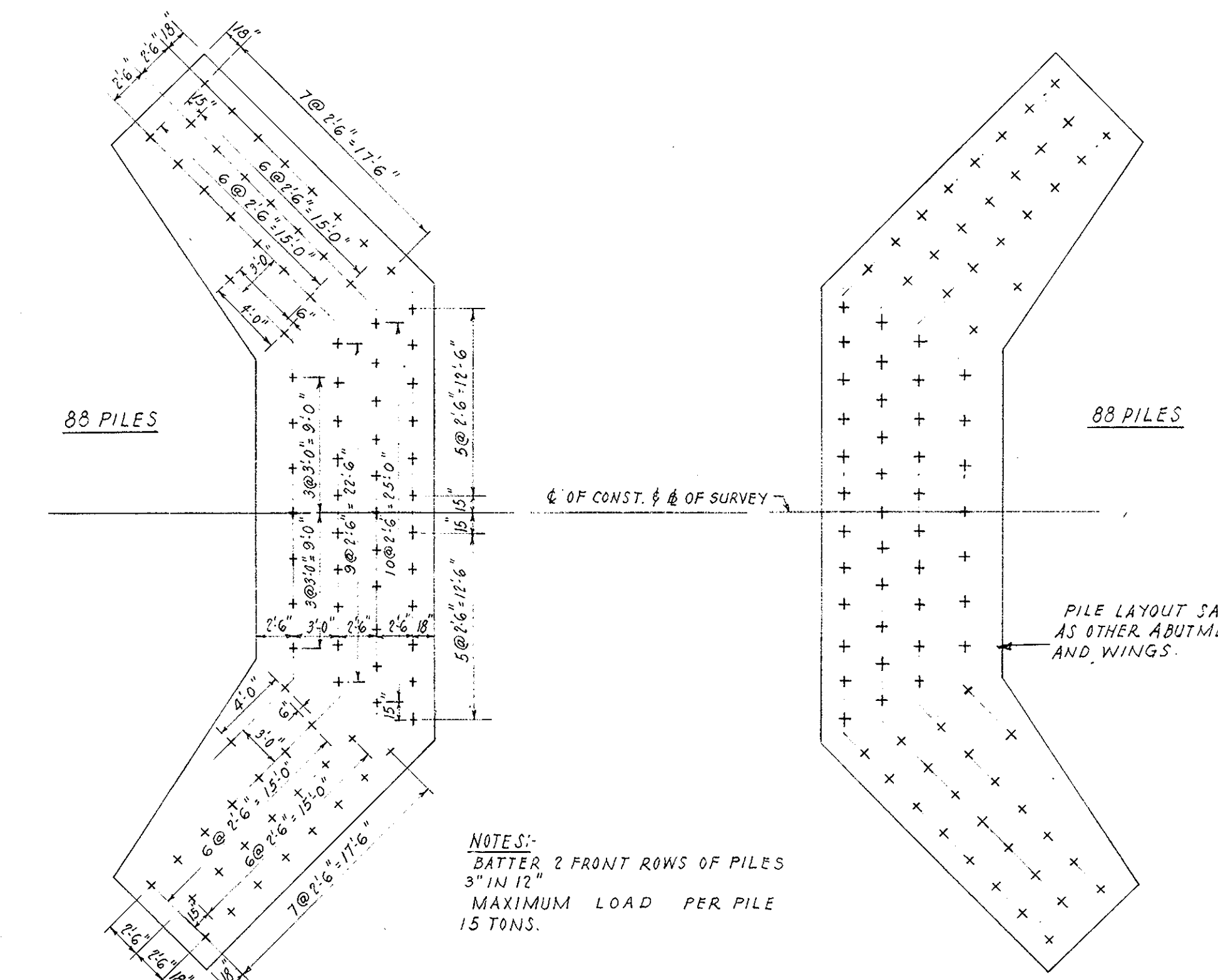
PLAN



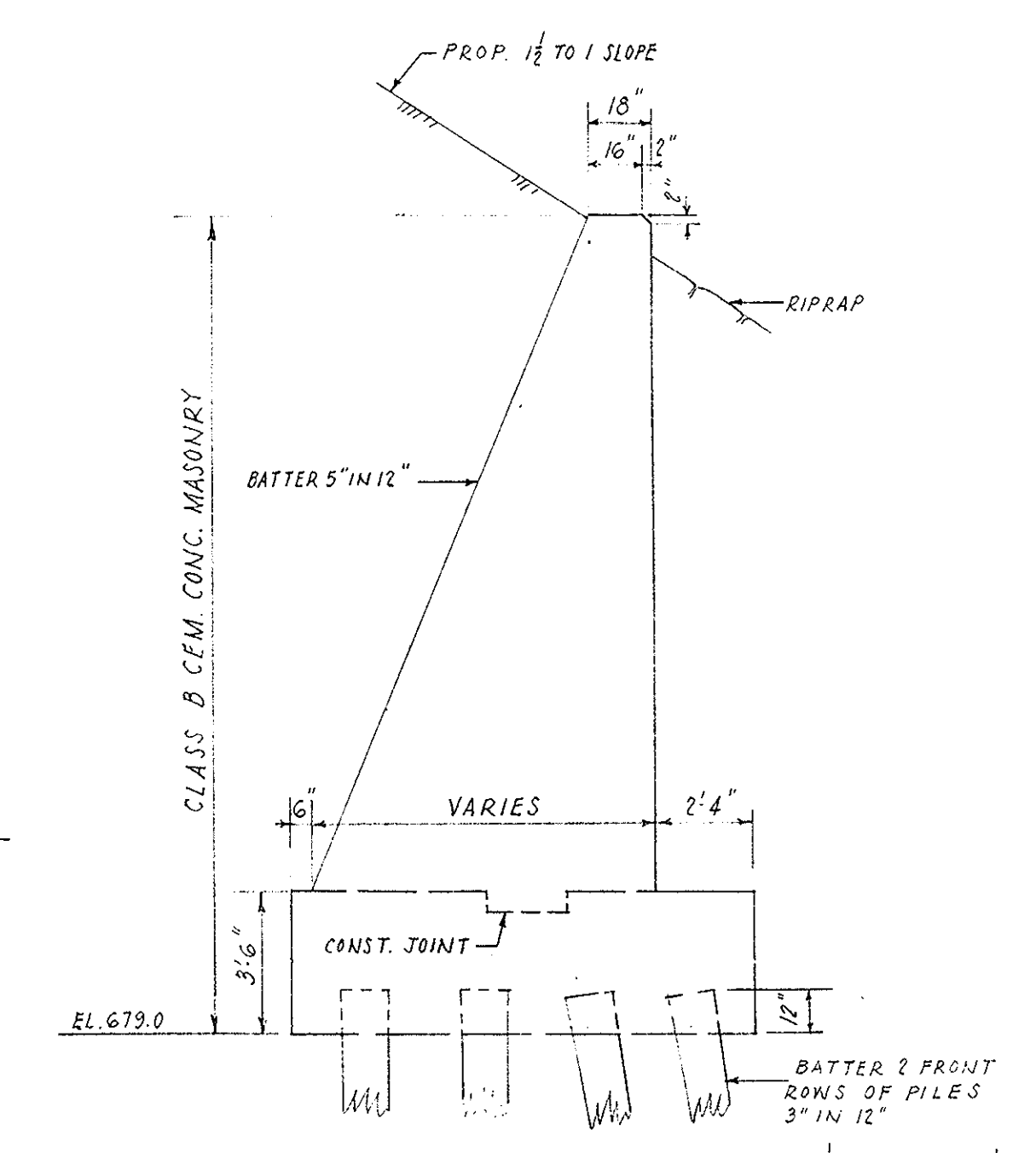
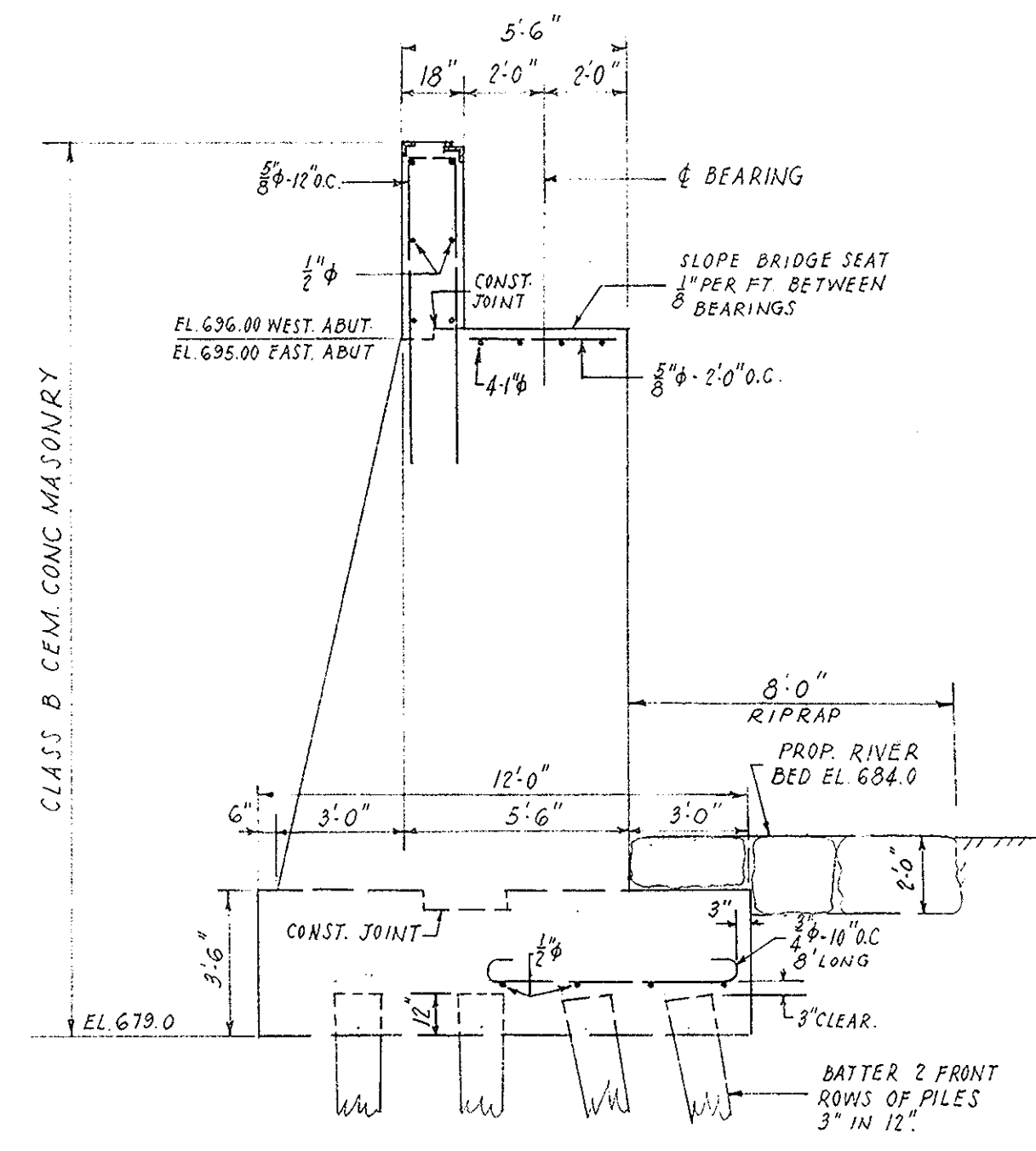
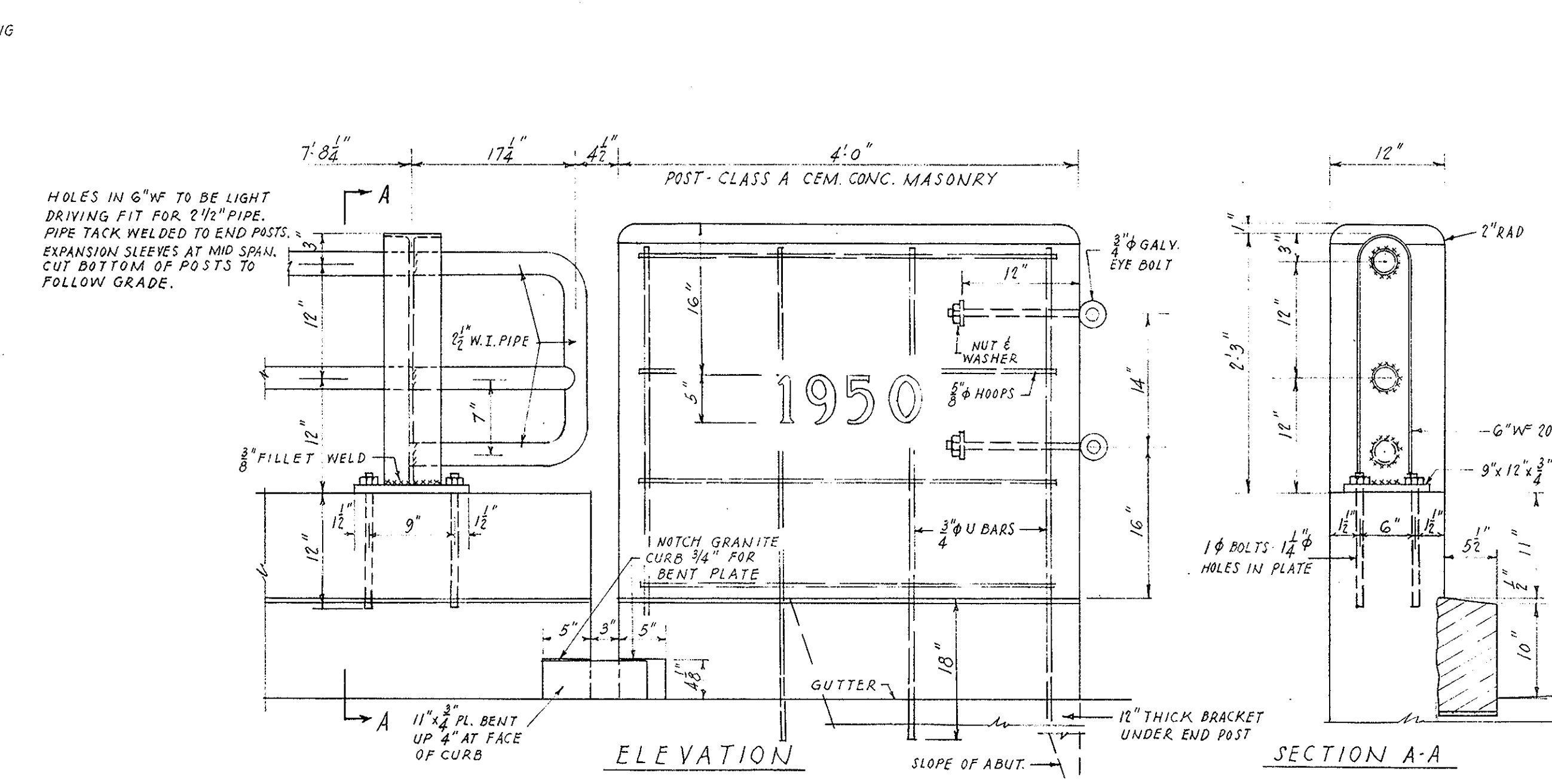
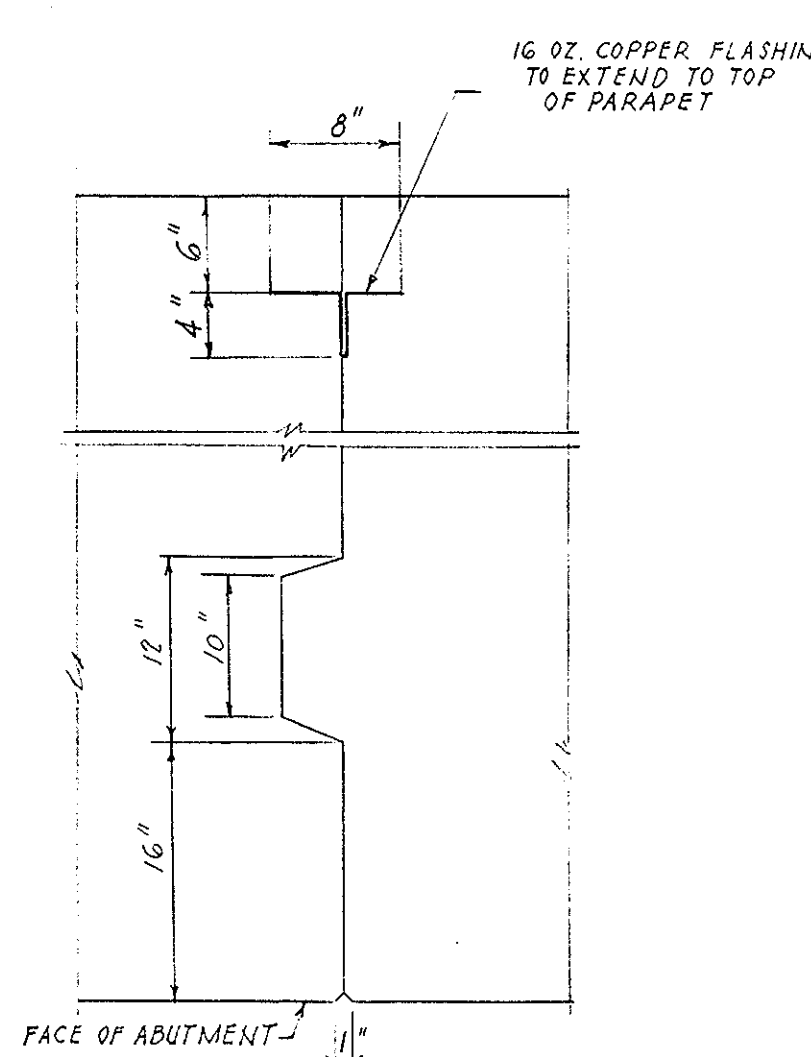
DETAILS OF WESTERLY ABUTMENT
SCALE 1/8" = 1'-0"



DETAILS OF EASTERLY ABUTMENT
SCALE 1/8" = 1'-0"

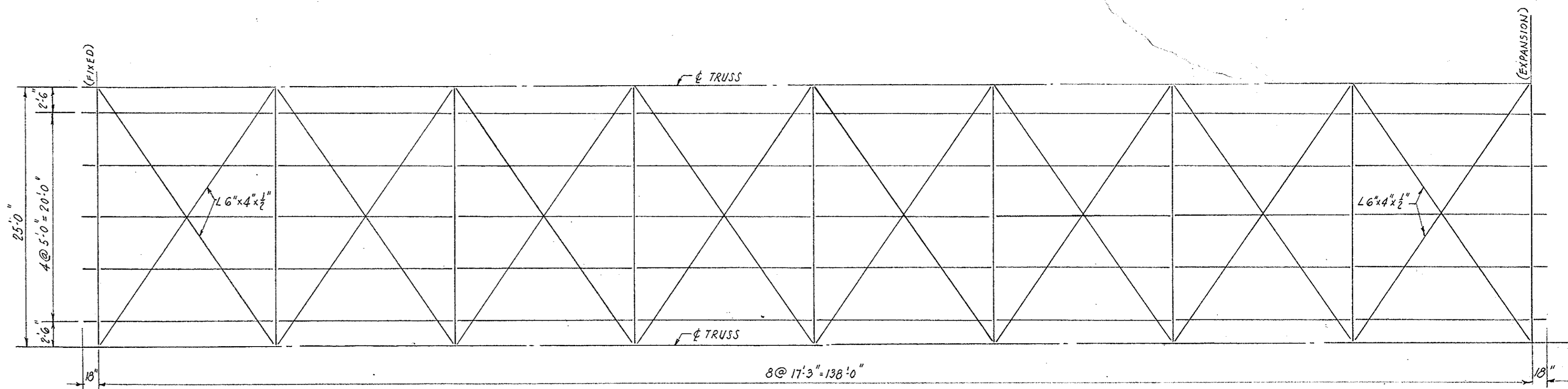


NOTES:
BATTER 2 FRONT ROWS OF PILES
3" IN 12"
MAXIMUM LOAD PER PILE
15 TONS.



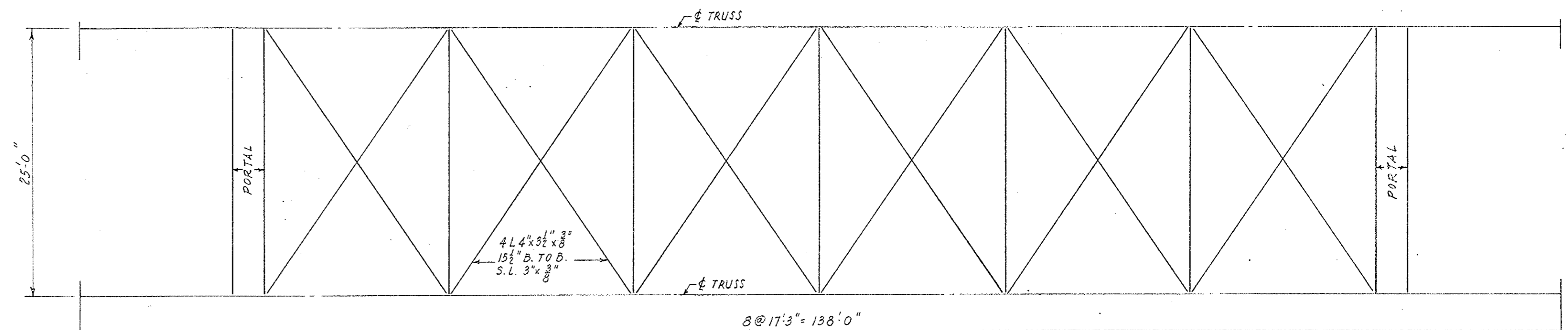
5-6-50	CONSTRUCTION
8-6-50	ADVERTISING
DATE	DESCRIPTION
	USE ONLY PRINTS OF LATEST DATE

TABLE OF STRESSES				
MEMBER	DEAD LOAD	UNIFORM LIVE LOAD + IMPACT	CONCENTRATED LIVE LOAD + IMPACT	TOTAL
L ₀ -U ₁	-177	-65	-26	-268
U ₁ -U ₃	-199	-73	-29	-301
U ₃ -U ₅	-263	-97	-39	-399
L ₀ -L ₂	+116	+43	+17	+176
L ₂ -L ₄	+242	+89	+36	+367
U ₁ -L ₁	+38	+14	+23	+75
U ₃ -L ₃	0	0	0	0
U ₅ -L ₅	0	0	0	0
U ₁ -L ₂	+126	+46	+23	+195
U ₃ -L ₂	-70	-26	-23	-119
U ₃ -L ₄	+25	+9	+15	+49



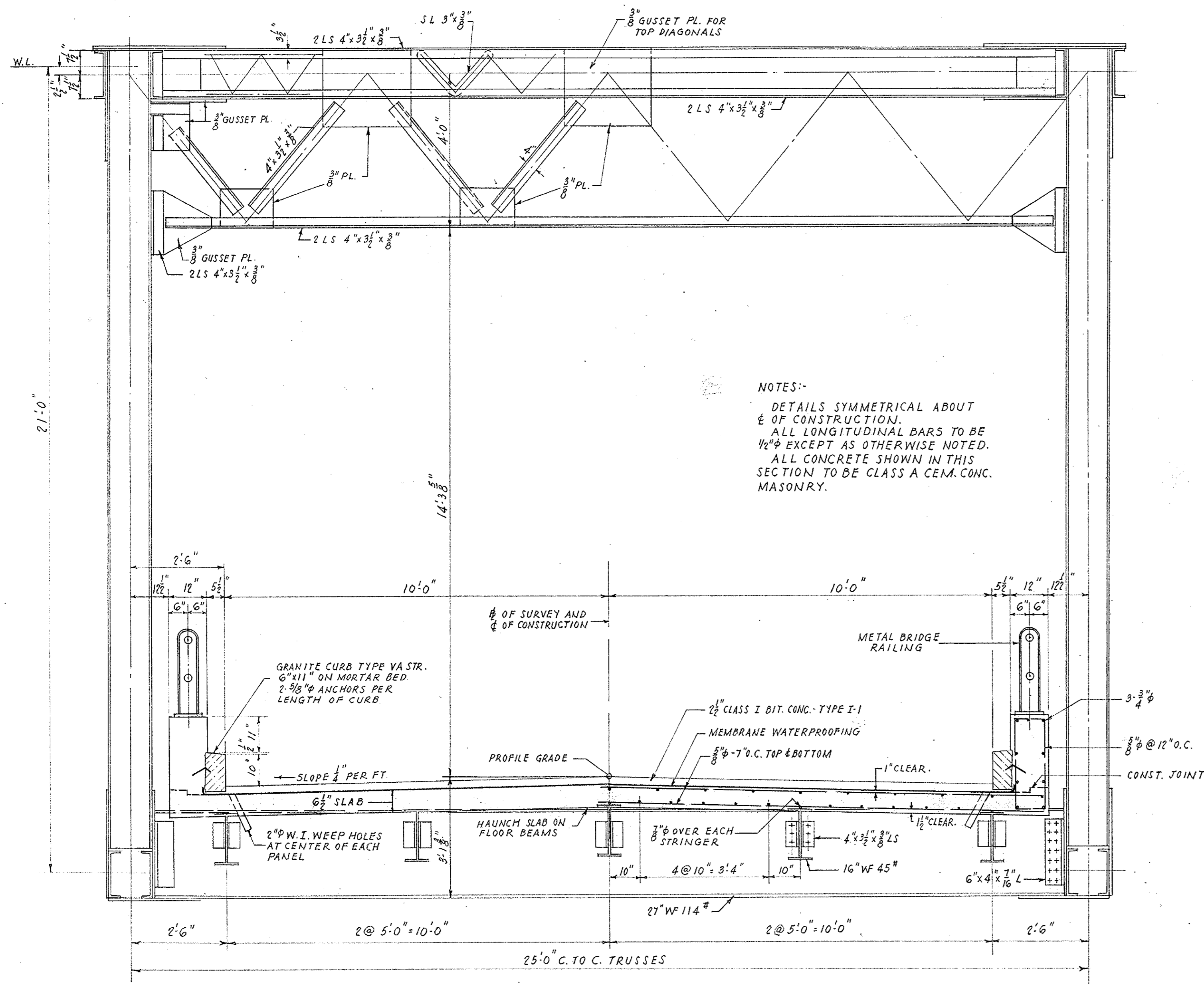
NOTES:- ALL FLOOR BEAMS 27" WF 114 #
ALL STRINGERS 16" WF 45 #
ALL LATERAL BRACING 6"x4"x3/8" L EXCEPT AS NOTED.

STEEL LAYOUT - LOWER CHORD
SCALE 1/8" = 1'-0"



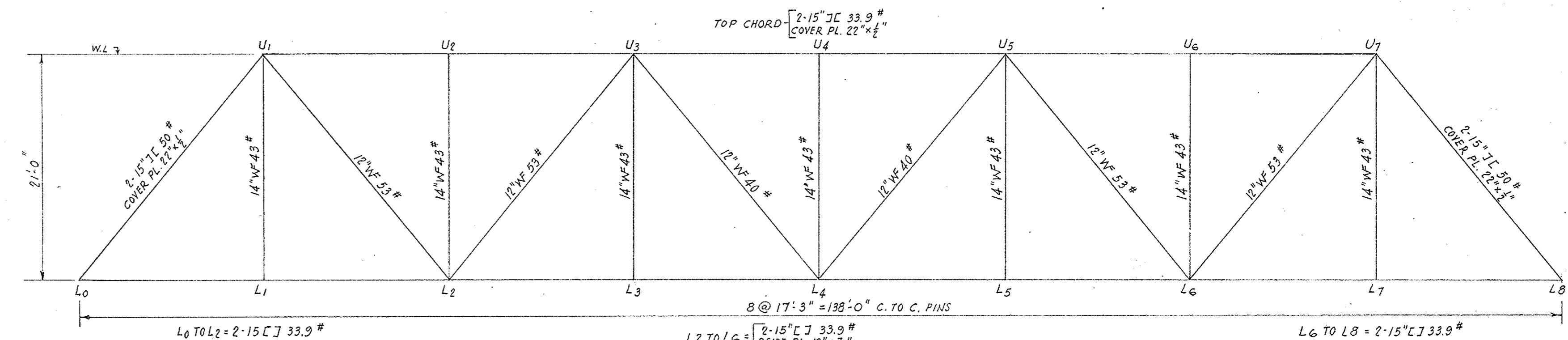
NOTES:- FOR TRANSVERSE BRACING SEE CROSS-SECTION OF SUPERSTRUCTURE.
ALL DIAGONAL BRACING AS SHOWN.

STEEL LAYOUT - TOP CHORD
SCALE 1/8" = 1'-0"



NOTES:-
DETAILS SYMMETRICAL ABOUT
C. OF CONSTRUCTION.
ALL LONGITUDINAL BARS TO BE
1/2" Ø EXCEPT AS OTHERWISE NOTED.
ALL CONCRETE SHOWN IN THIS
SECTION TO BE CLASS A CEM. CONC.
MASONRY.

CROSS-SECTION OF SUPERSTRUCTURE
SCALE 1/4" = 1'-0"

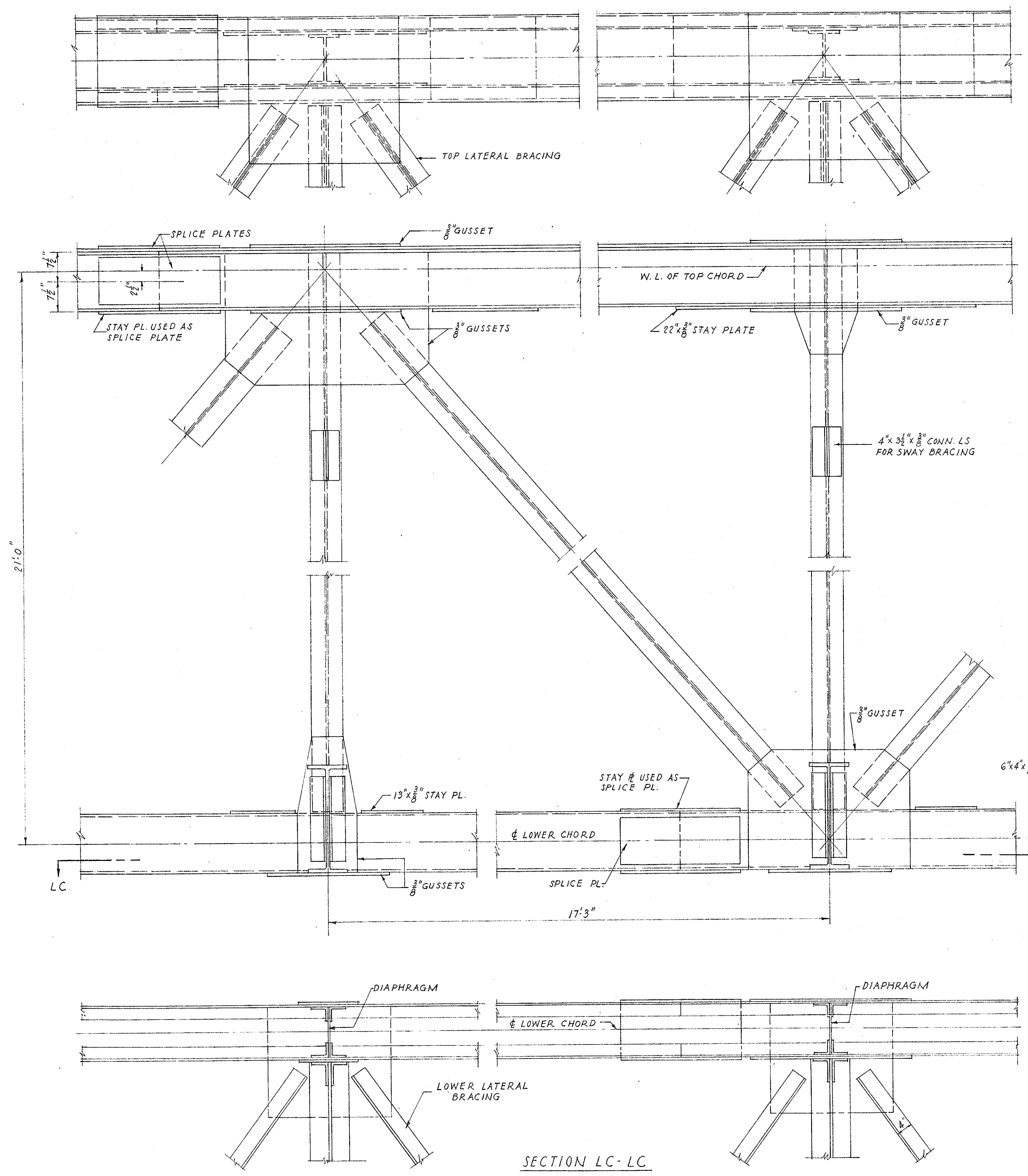


RIVETS 3/4" Ø HOLES 1 1/8" Ø
ALL GUSSET PLATES 1/2" Ø
CLEAR DISTANCE BETWEEN GUSSET PLATES 13 1/2"
TOP CHORD: STAY PLATES 22" x 3/8" x 2'-3". DOUBLE
LACING 3" x 7/16" WITH SINGLE RIVET CONNECTIONS.
LOWER CHORD: STAY PLATES 15" x 3/8" x 1'-4". SINGLE
LACING 3" x 3/8" WITH SINGLE RIVET CONNECTIONS.
ALL SPLICES TO BE PLACED ON SIDE OF JOINT
WHERE LOWER STRESS OCCURS.

MAKE UP OF MEMBERS
SCALE 1/8" = 1'-0"

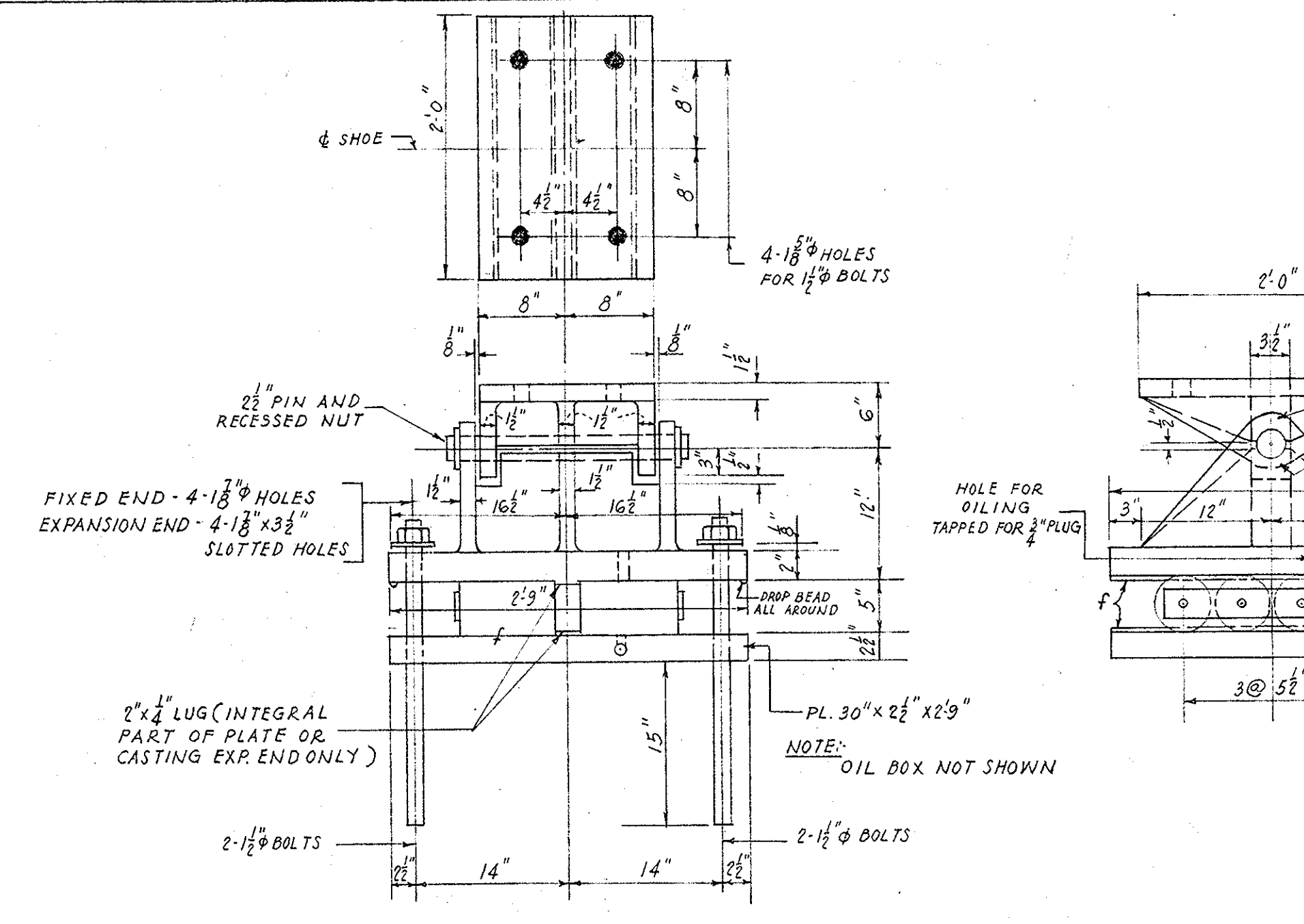
NOTE:- CAMBER TRUSSES TO FOLLOW
PROFILE GRADE UNDER FULL
DEAD LOAD.

5-6-50	CONSTRUCTION
5-6-50	ADVERTISING
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

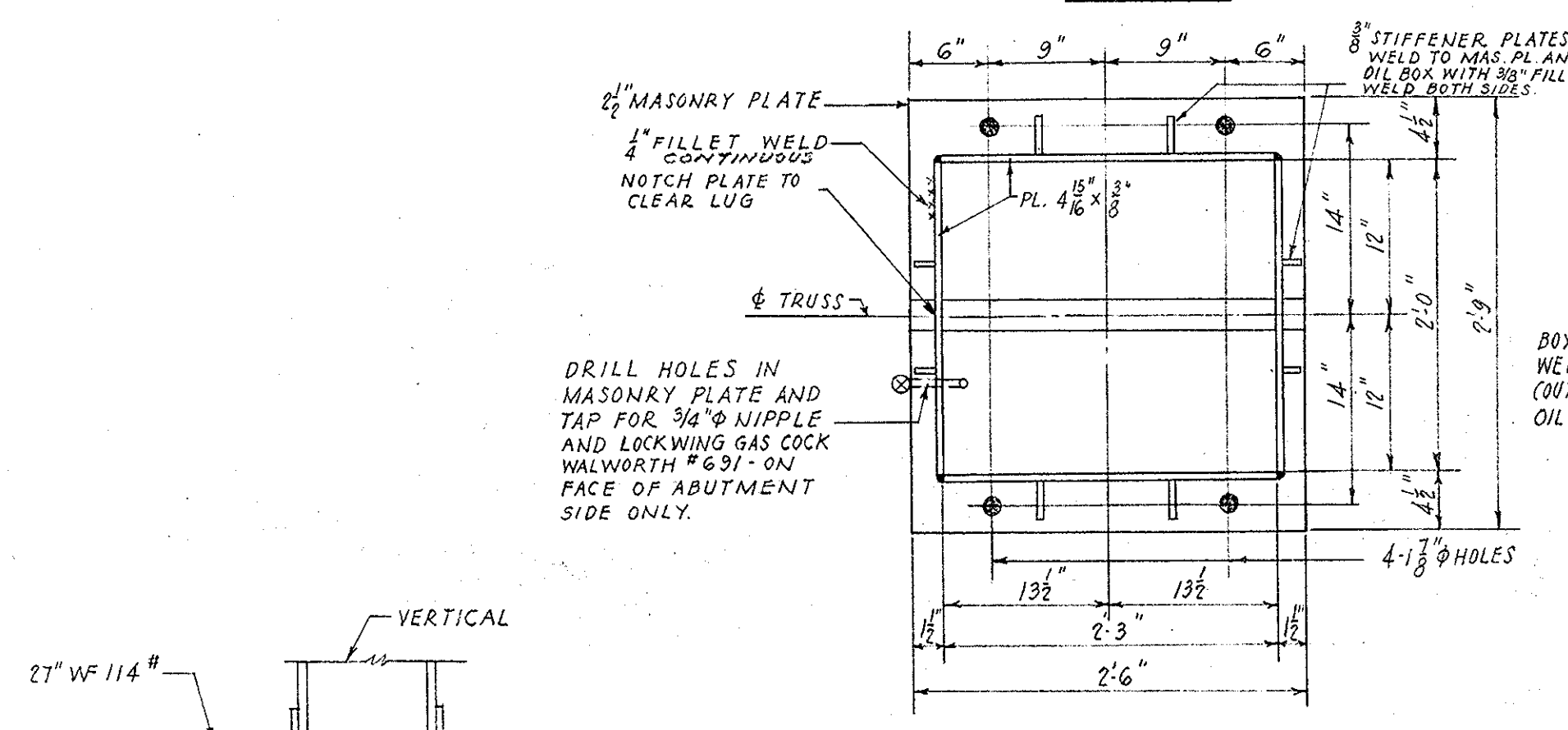


DETAILS OF TRUSSES
SCALE 3/4"=1'-0"

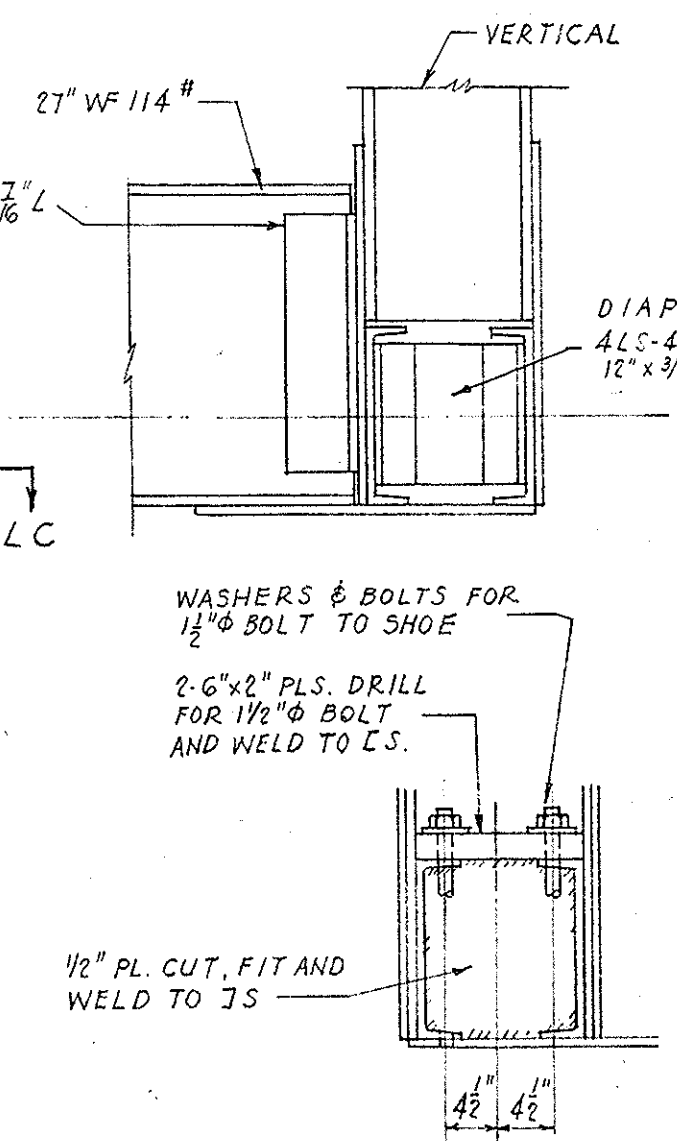
SECTION LC-LC



DETAILS OF CAST STEEL SHOES
(NOT TO BE MADE FROM PLATES WELDED)
SCALE 1"=1'-0"

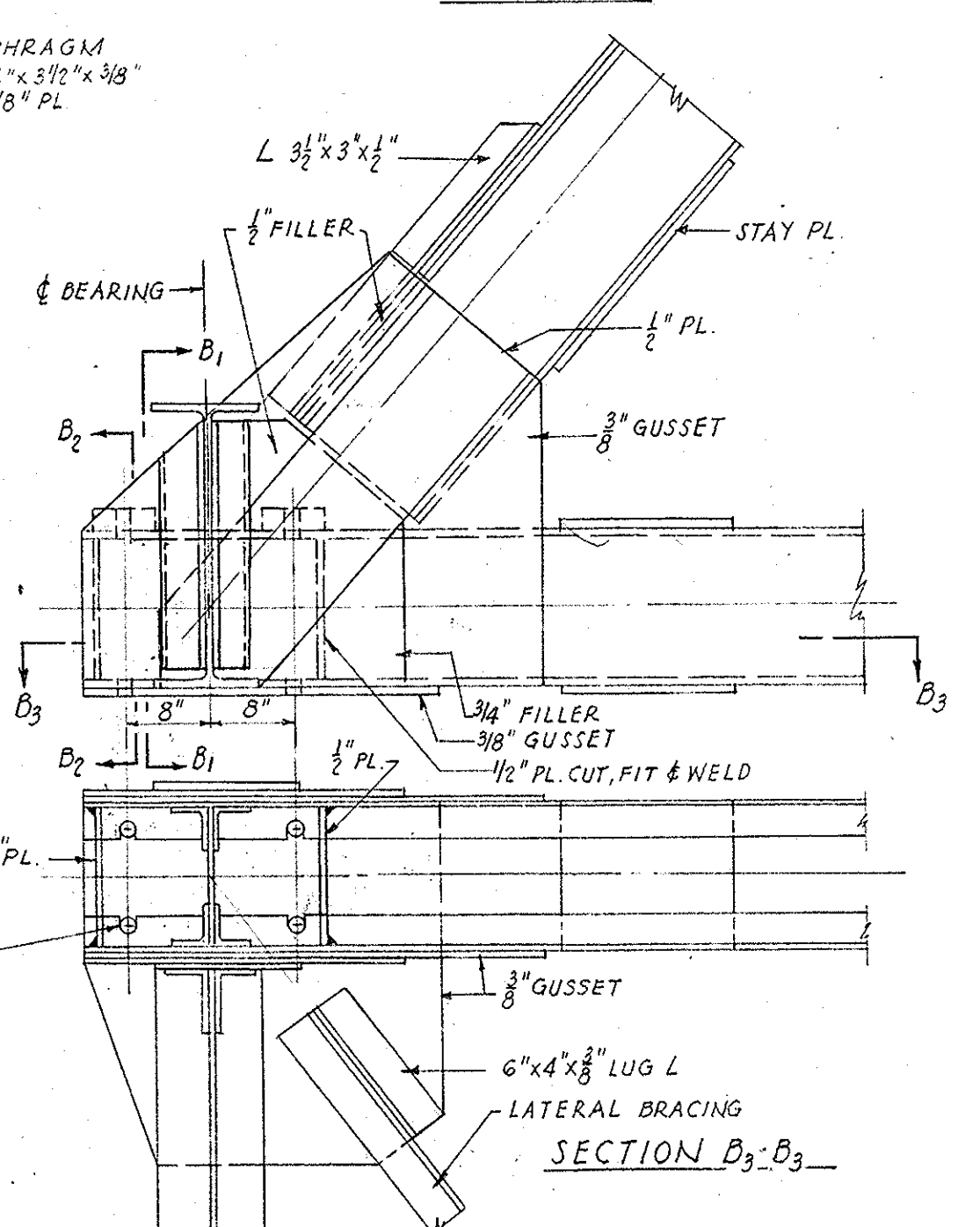


DETAILS OF OIL BOX
SCALE 1"=1'-0"

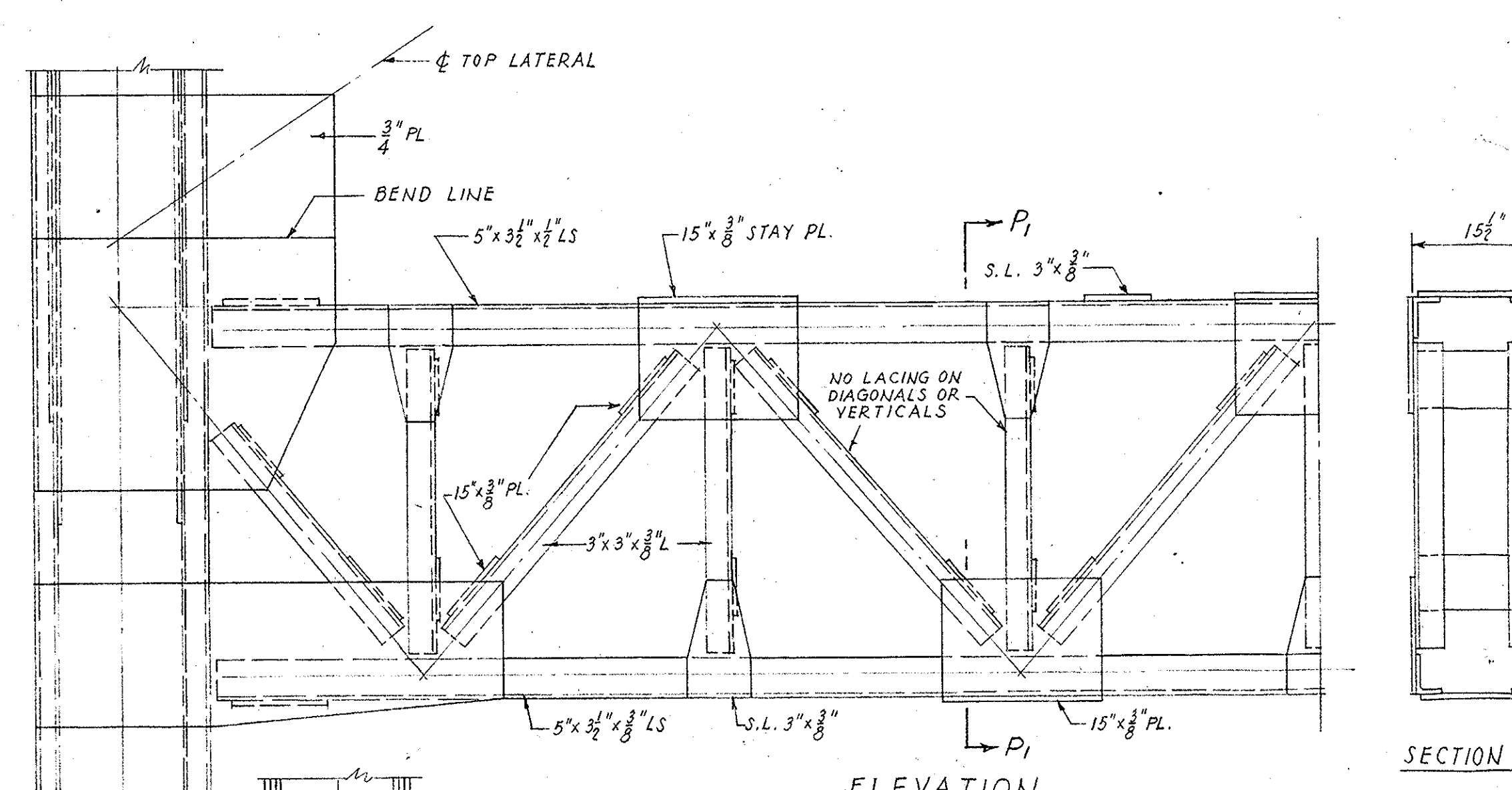
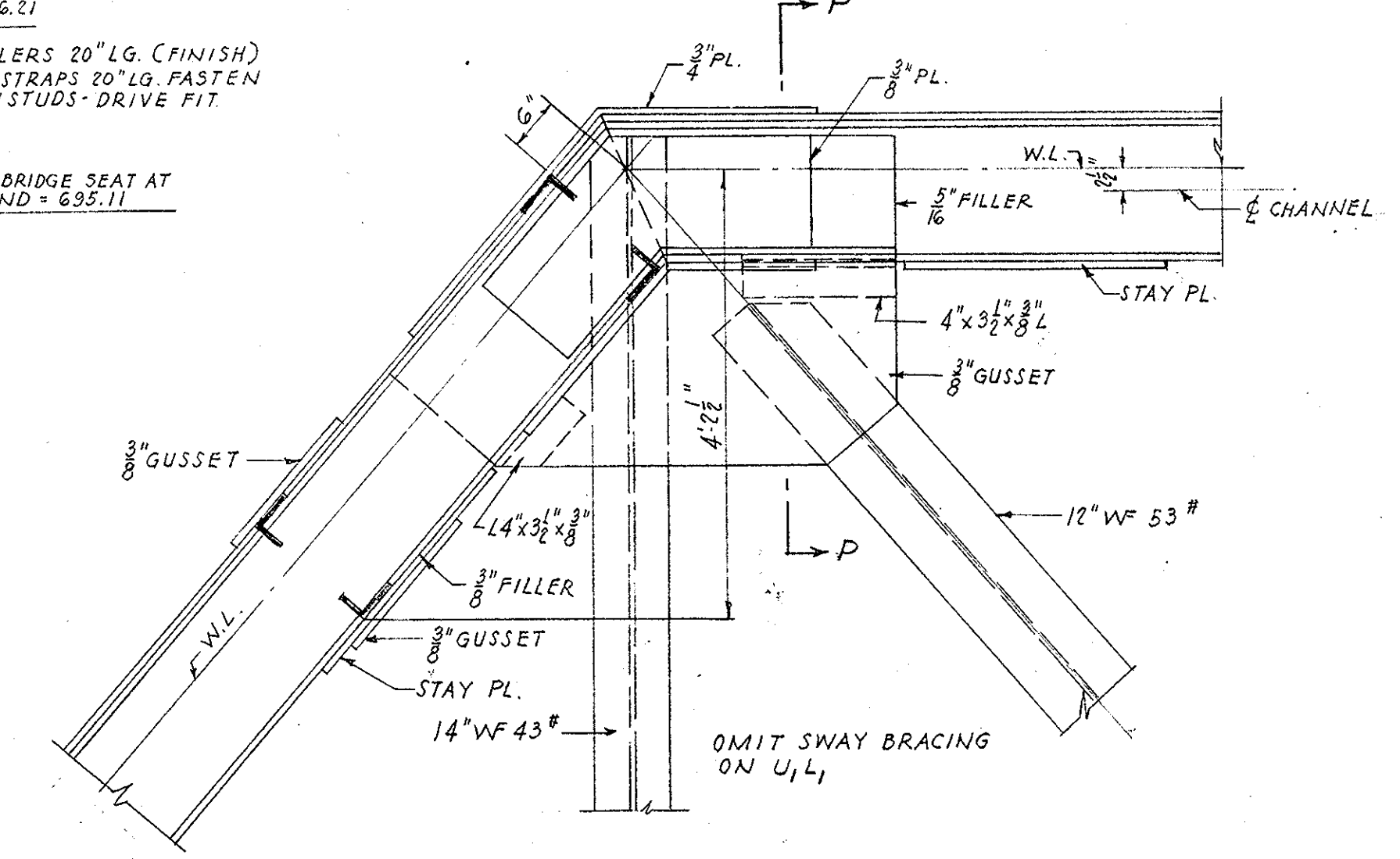
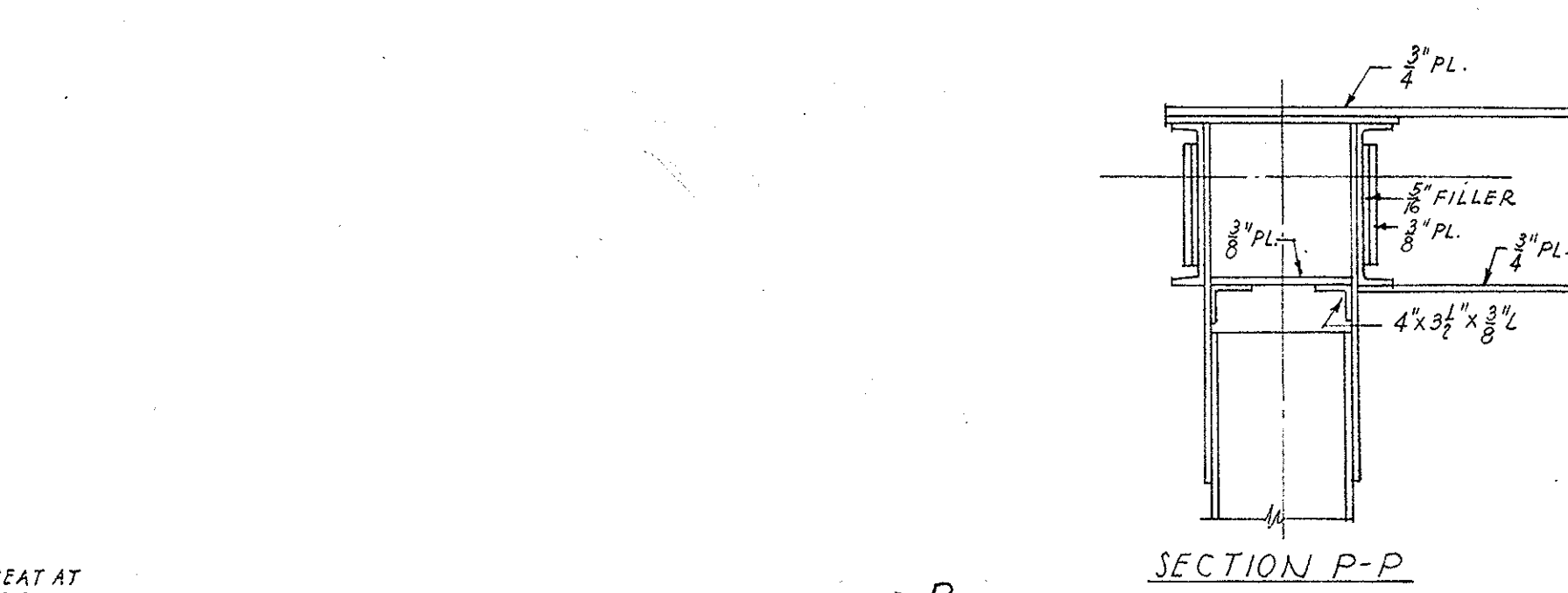


SECTION B2-B2

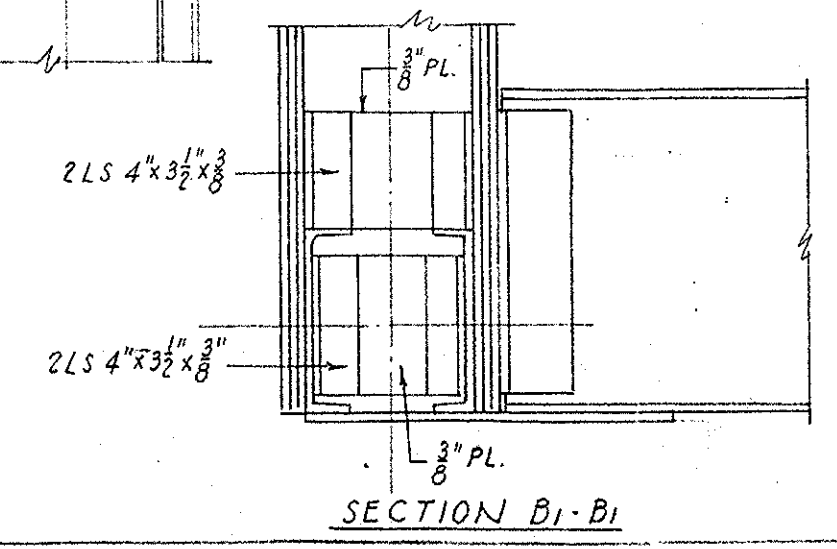
DRILL C FLANGES AND GUSSET PL. FOR 1/2" BOLT



DETAILS AT L0
SCALE 3/4"=1'-0"



DETAILS OF PORTAL
SCALE 3/4"=1'-0"



5-6-20	CONSTRUCTION	
5-6-20	ADVERTISING	
DATE	DESCRIPTION	
	USE ONLY PRINTS OF LATEST DATE	