

THIS PLAN SET IS PROVIDED TO HELP UNDERSTAND THE DATA SET PROVIDED.

THIS DATA SET IS PROVIDED TO DEMONSTRATE A TYPICAL AGENCY PROJECT FILE AND FOLDER STRUCTURE, FILE NAMING CONVENTIONS, AND FILE GRAPHICAL CONTENT. THE IS A STANDARD FILE FOLDER AND CADD FILE DATA CONTENT EXAMPLE PROJECT. THIS IS NOT AN ACTUAL PROJECT IT IS A COMPILED EXAMPLE PROJECT MADE FOR DEMONSTRATION PURPOSES.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

CITY OF RUTLAND

COUNTY OF RUTLAND

ROUTE NO : TH-8 (RIVER STREET) Urban Collector - FAU 3052

TH-10 (DORR DRIVE) Urban Collector- FAU 3008

BRIDGE NO : 2 (TH-8)

BEGINNING AT THE INTERSECTION OF DORR DR (TH-10) AND RIVER ST (TH-8)

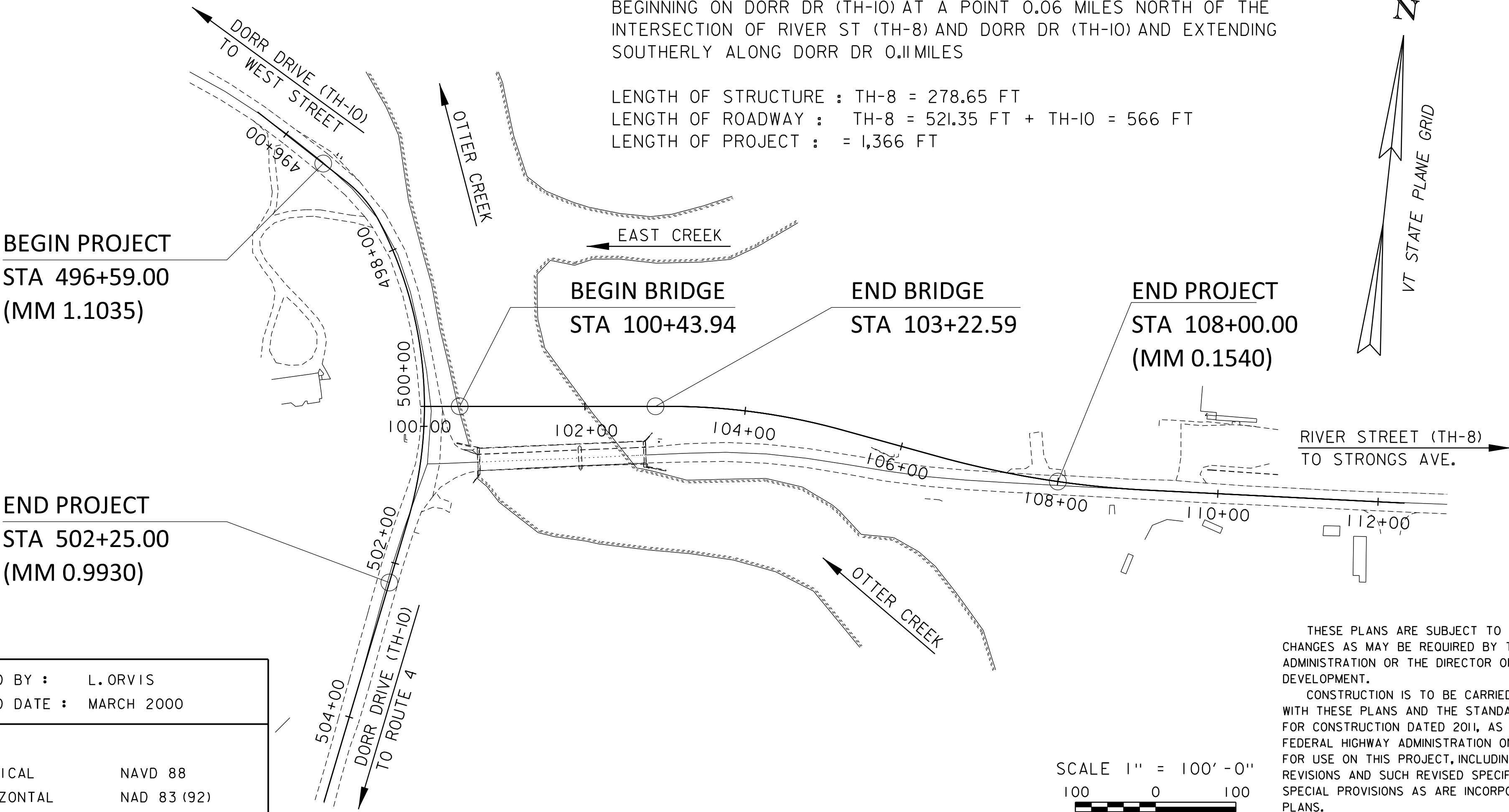
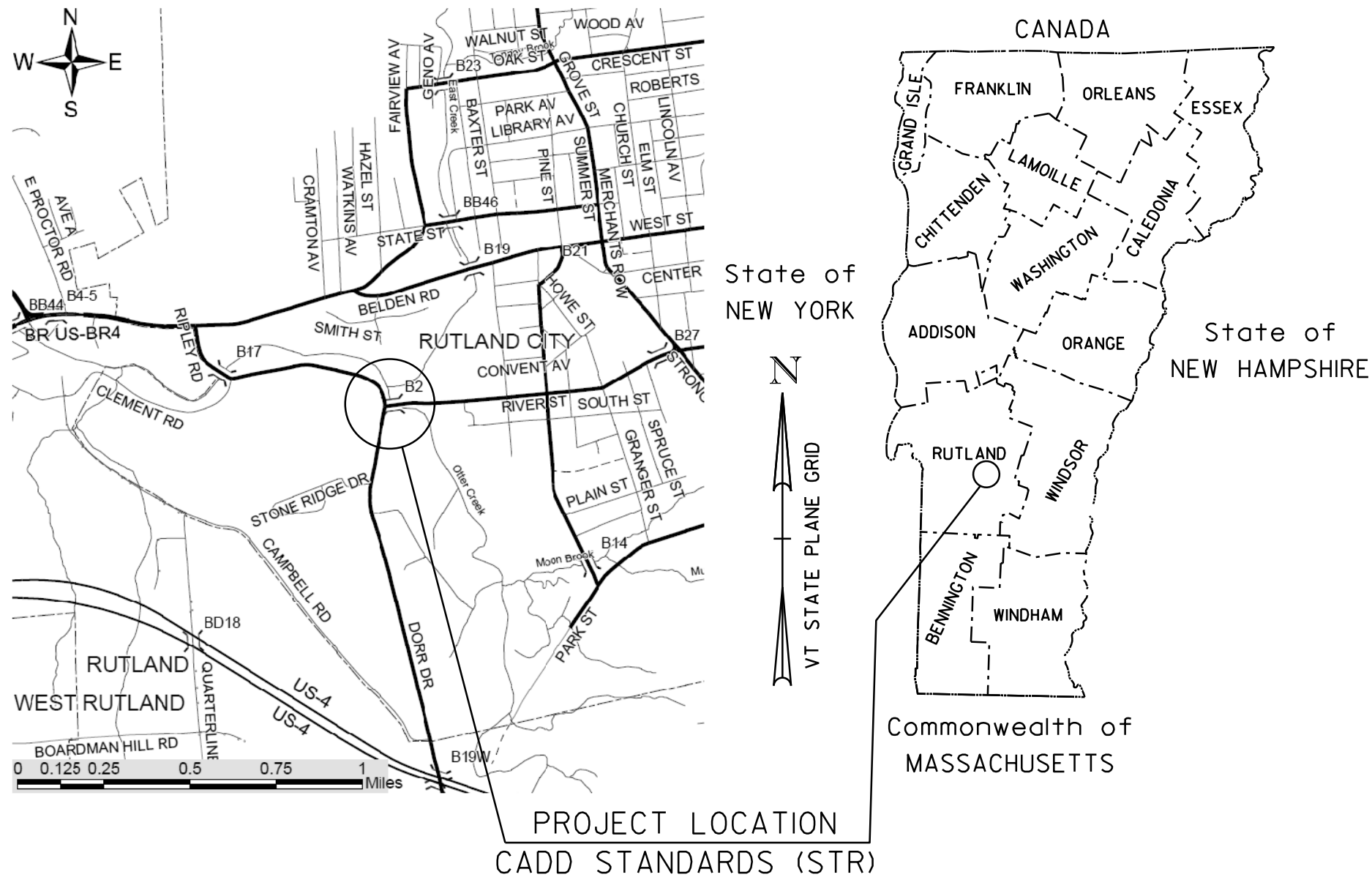
AND EXTENDING EASTERLY ALONG RIVER ST (TH 8), 0.15 MILES.

BEGINNING ON DORR DR (TH-10) AT A POINT 0.06 MILES NORTH OF THE INTERSECTION OF RIVER ST (TH-8) AND DORR DR (TH-10) AND EXTENDING SOUTHERLY ALONG DORR DR 0.11MILES

LENGTH OF STRUCTURE : TH-8 = 278.65 FT

LENGTH OF ROADWAY : TH-8 = 521.35 FT + TH-10 = 566 FT

LENGTH OF PROJECT : = 1,366 FT



QUALITY ASSURANCE PROGRAM: LEVEL 2

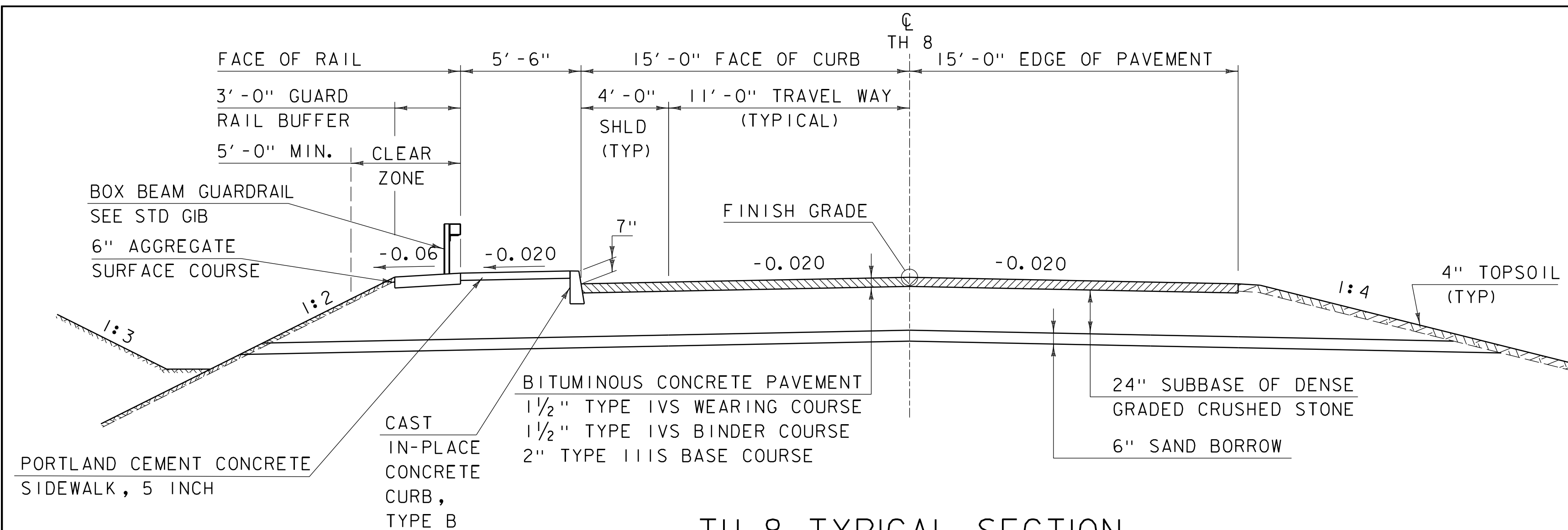
CONVENTIONAL SYMBOLS	
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

SURVEYED BY : L. ORVIS	
SURVEYED DATE : MARCH 2000	
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (92)

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

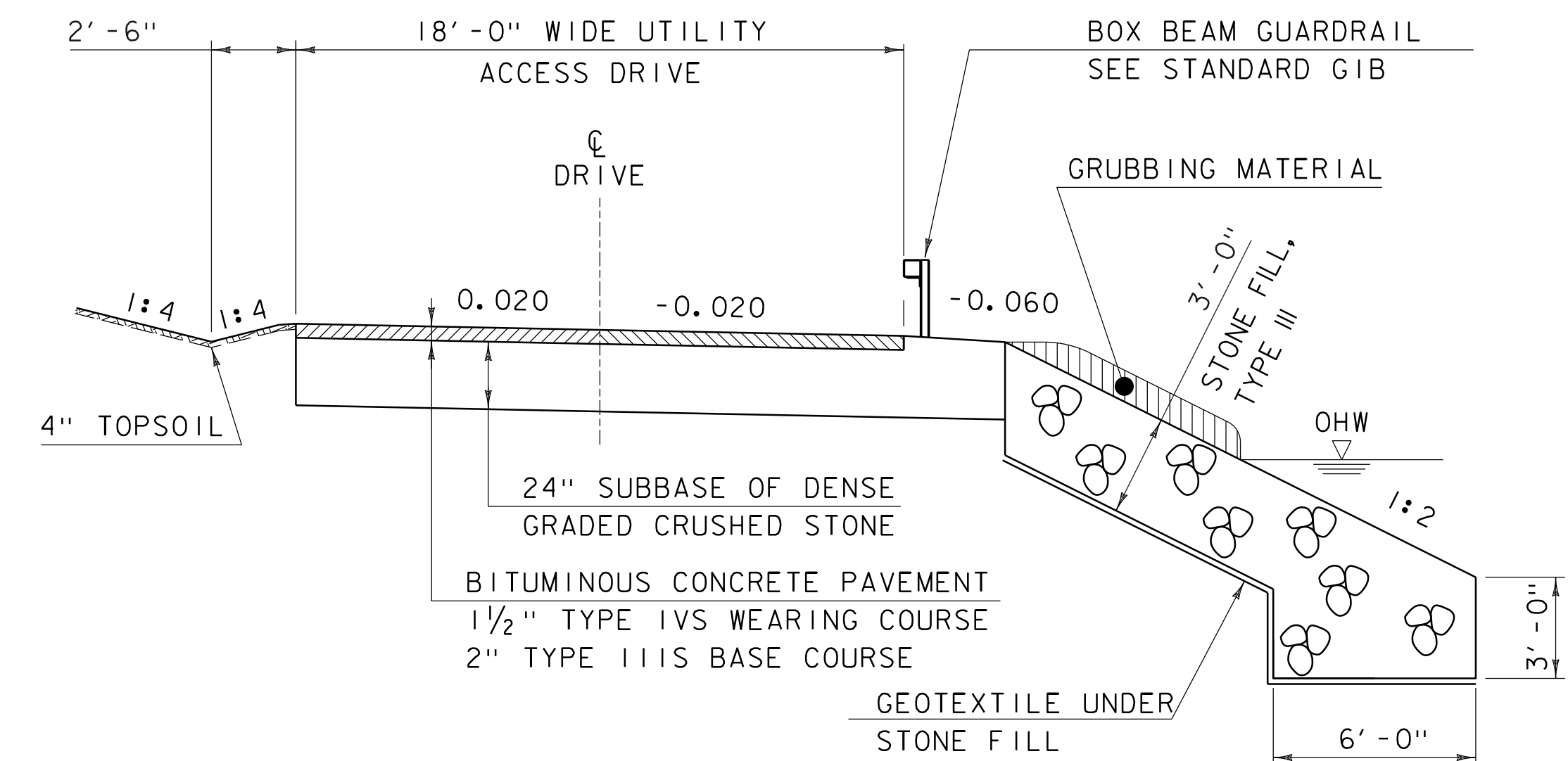
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

DIRECTOR OF PROGRAM DEVELOPMENT	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN CARLSON	
PROJECT NAME : EXAMPLE PLAN SET	
PROJECT NUMBER : CADD STANDARDS (STR)	
SHEET 1 OF 100 SHEETS	



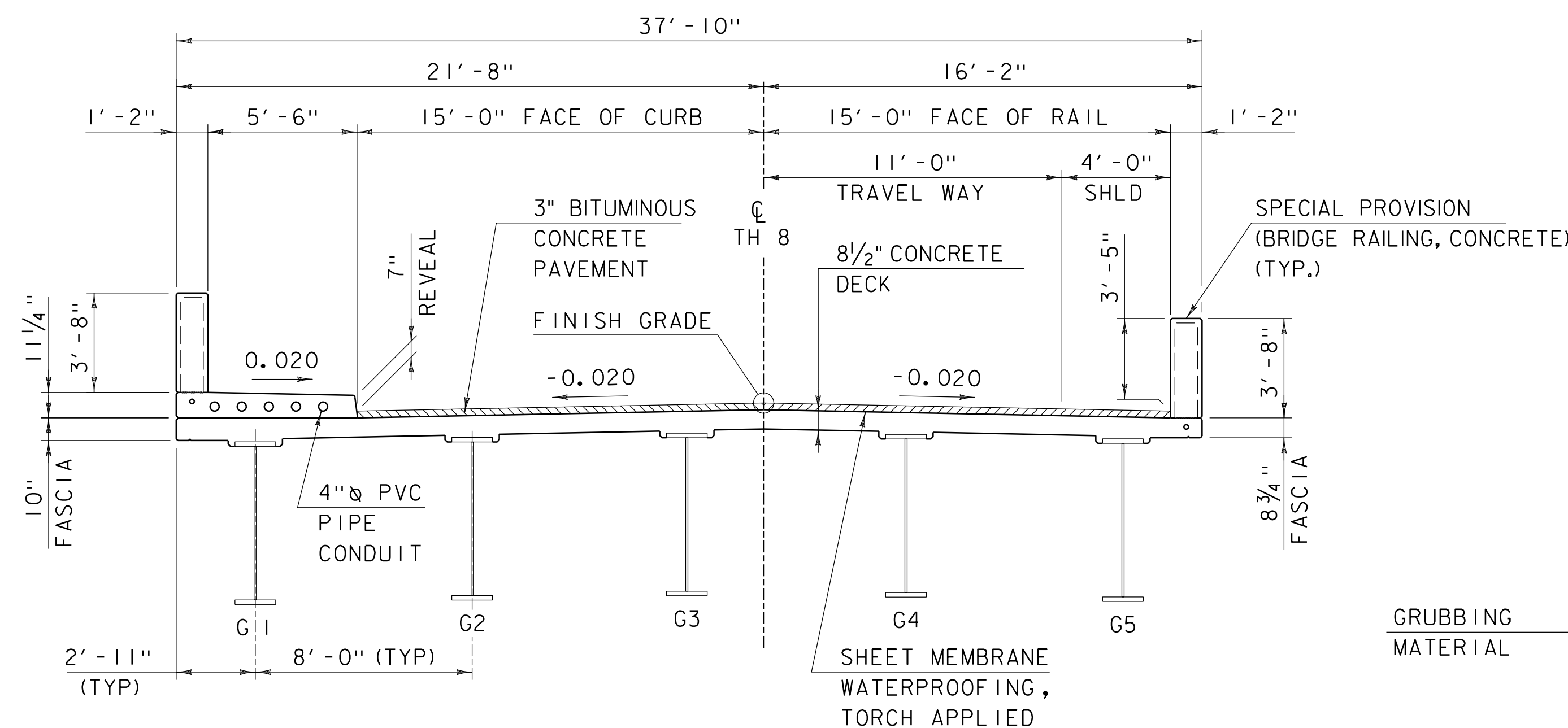
TH-8 TYPICAL SECTION

SCALE: 1/4" = 1' - 0"



PUMP HOUSE DRIVE TYPICAL SECTION

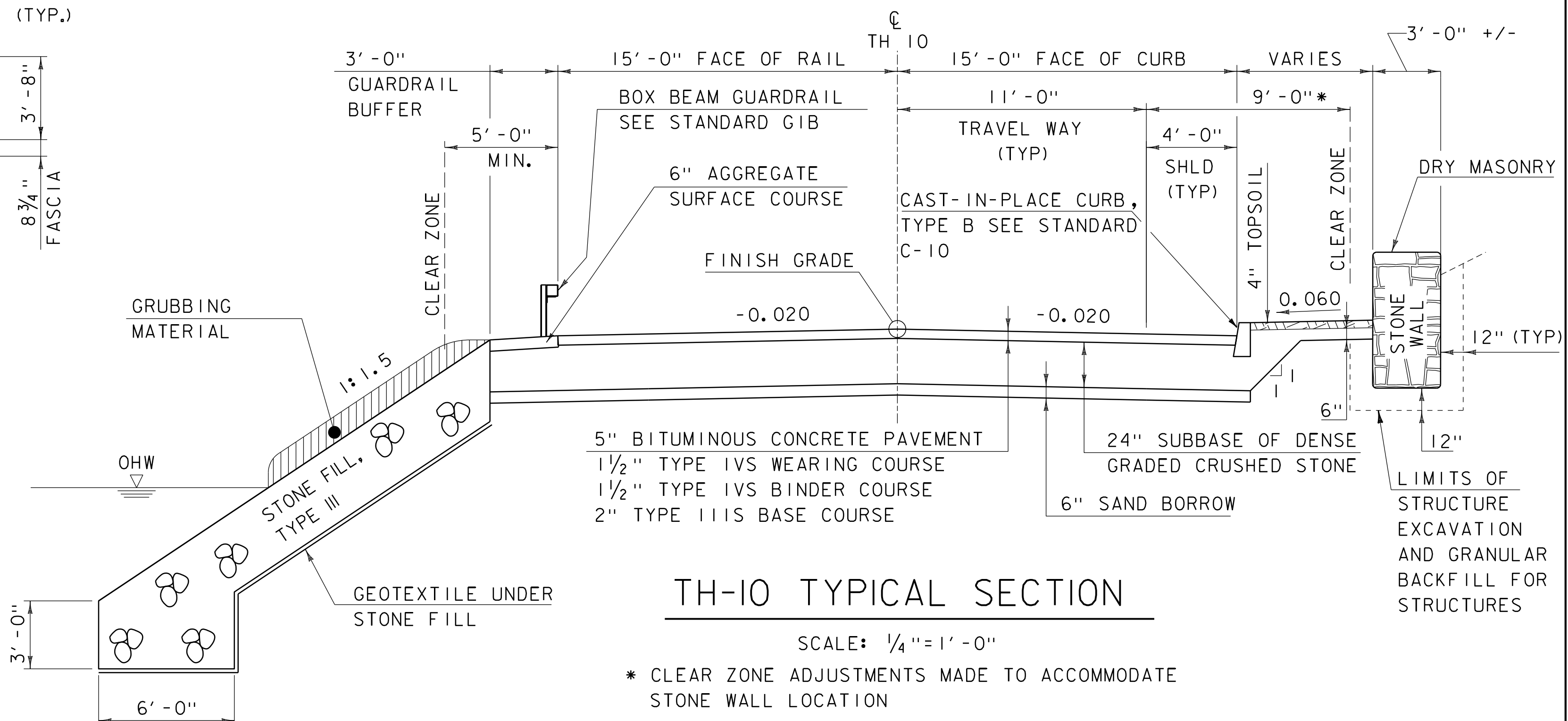
SCALE: 1/4" = 1' - 0"



TH-8 BRIDGE TYPICAL SECTION

SCALE: 1/4" = 1' - 0"

BITUMINOUS CONCRETE PAVEMENT ON BRIDGE
1 1/2" TYPE IV WEARING COURSE
1 1/2" TYPE IV BINDER COURSE



TH-10 TYPICAL SECTION

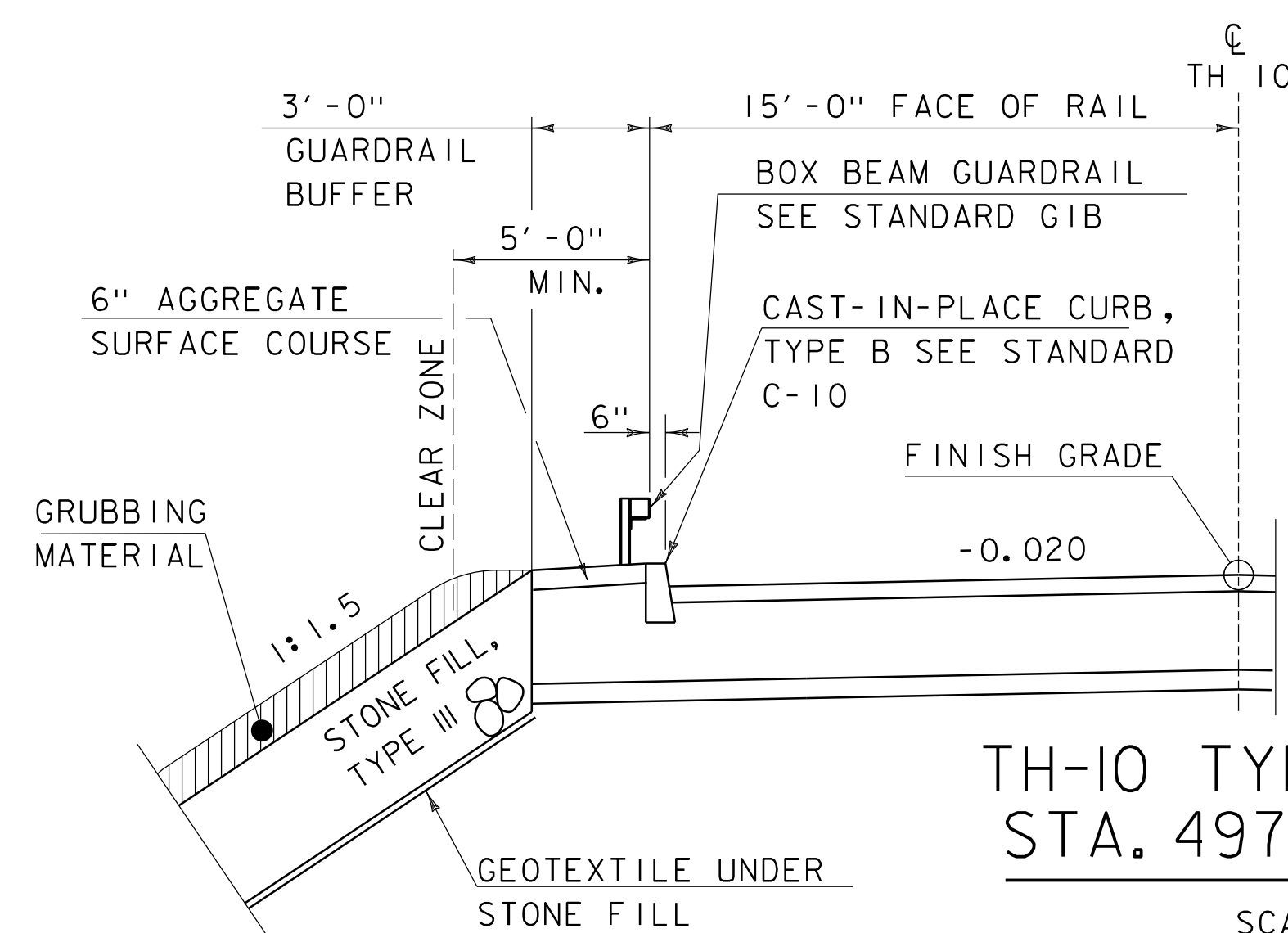
SCALE: 1/4" = 1' - 0"

* CLEAR ZONE ADJUSTMENTS MADE TO ACCOMMODATE STONE WALL LOCATION

MATERIAL TOLERANCES

(IF USED ON PROJECT)

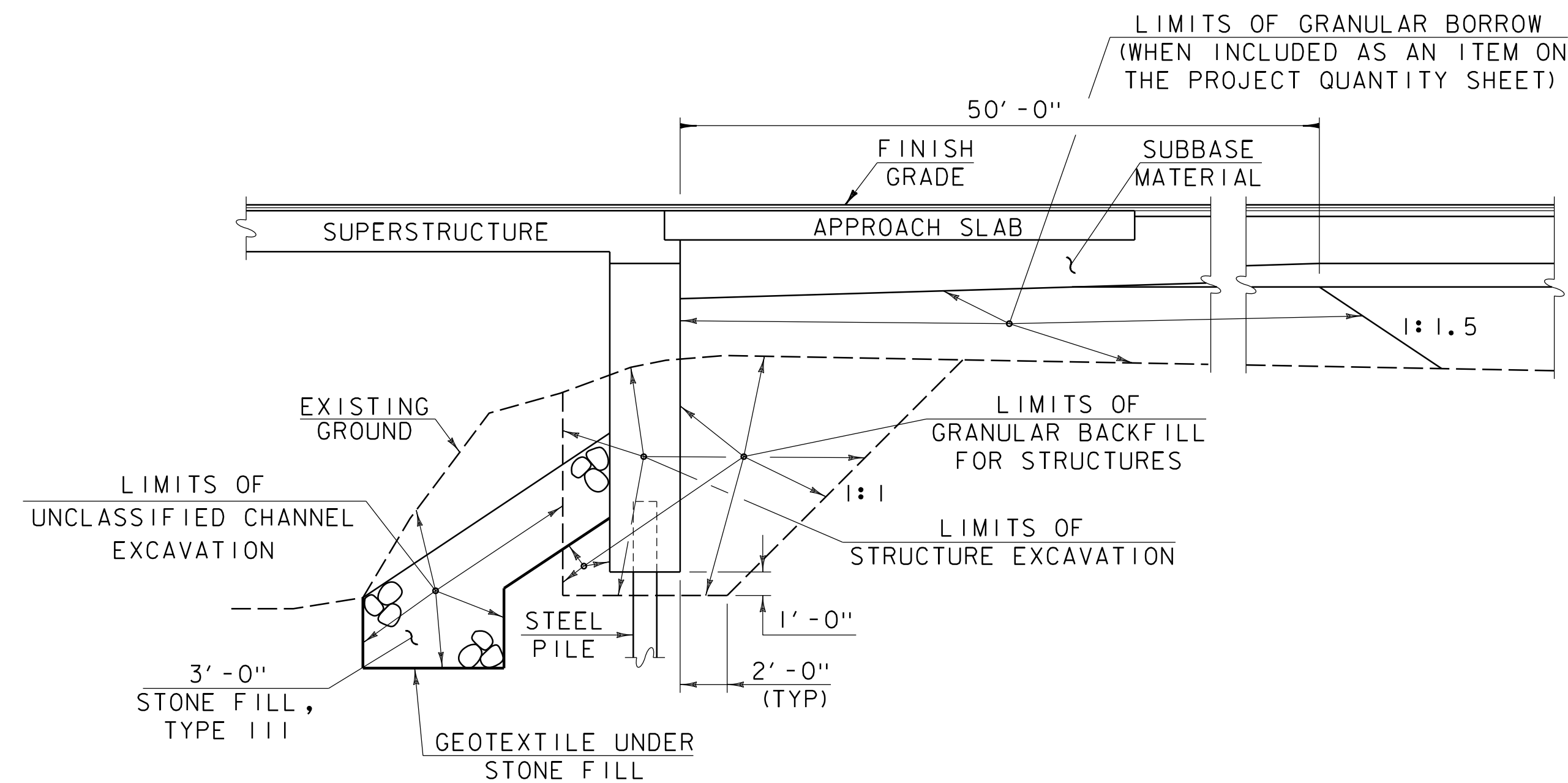
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



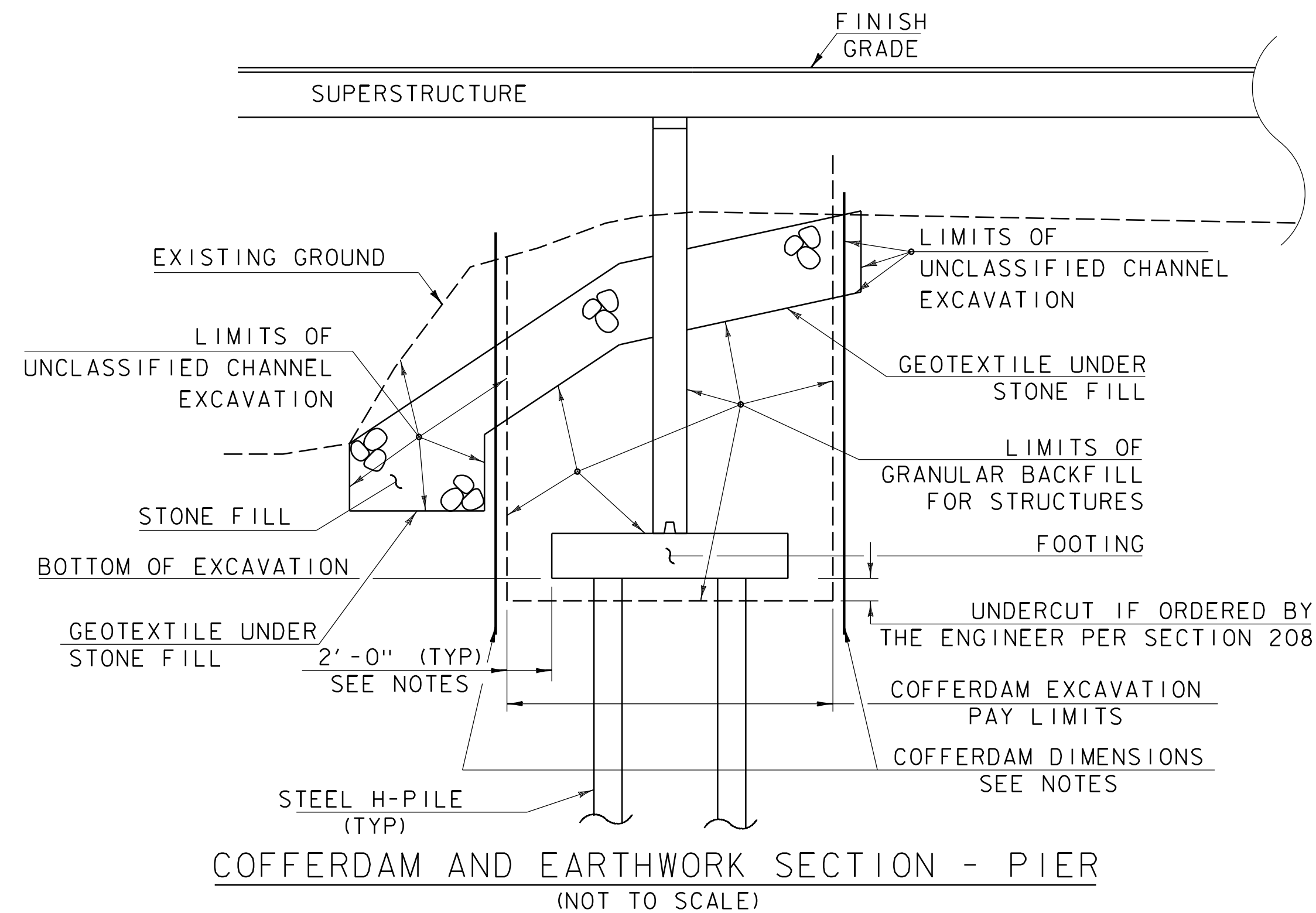
TH-10 TYPICAL LEFT SIDE
STA. 497+24 TO 499+25

SCALE: 1/4" = 1' - 0"

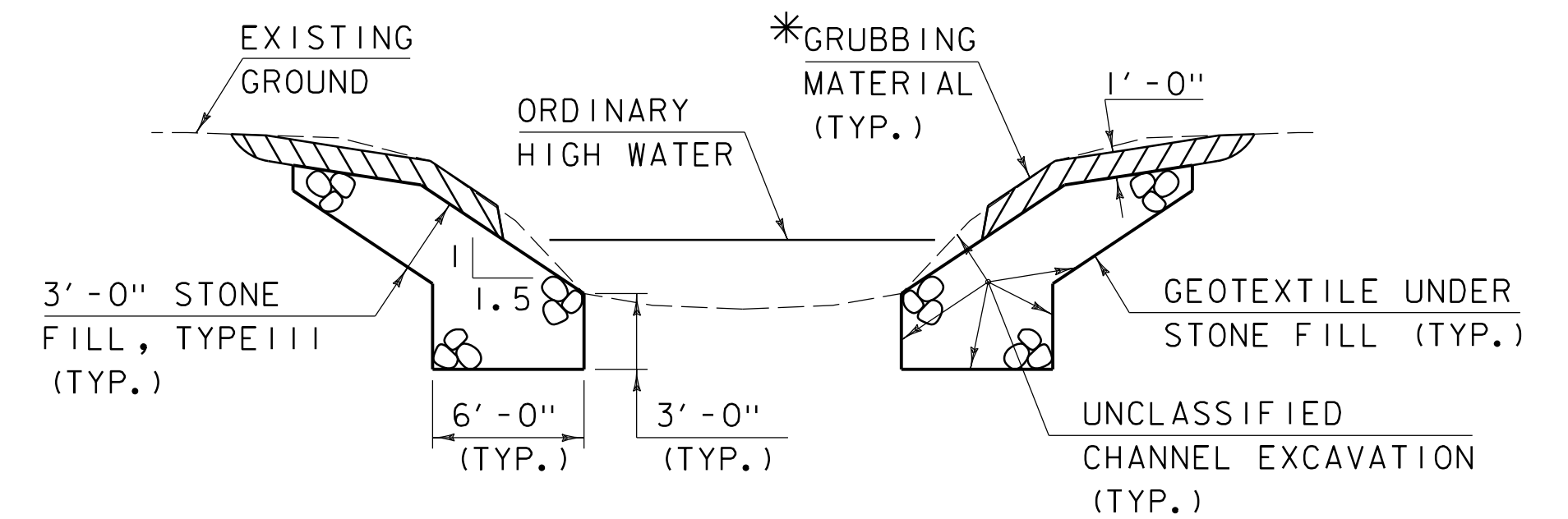
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092+yp.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TYPICAL SECTIONS SHEET	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	3 OF 100



ABUTMENT 2 EARTHWORK TYPICAL SECTION
(NOT TO SCALE)

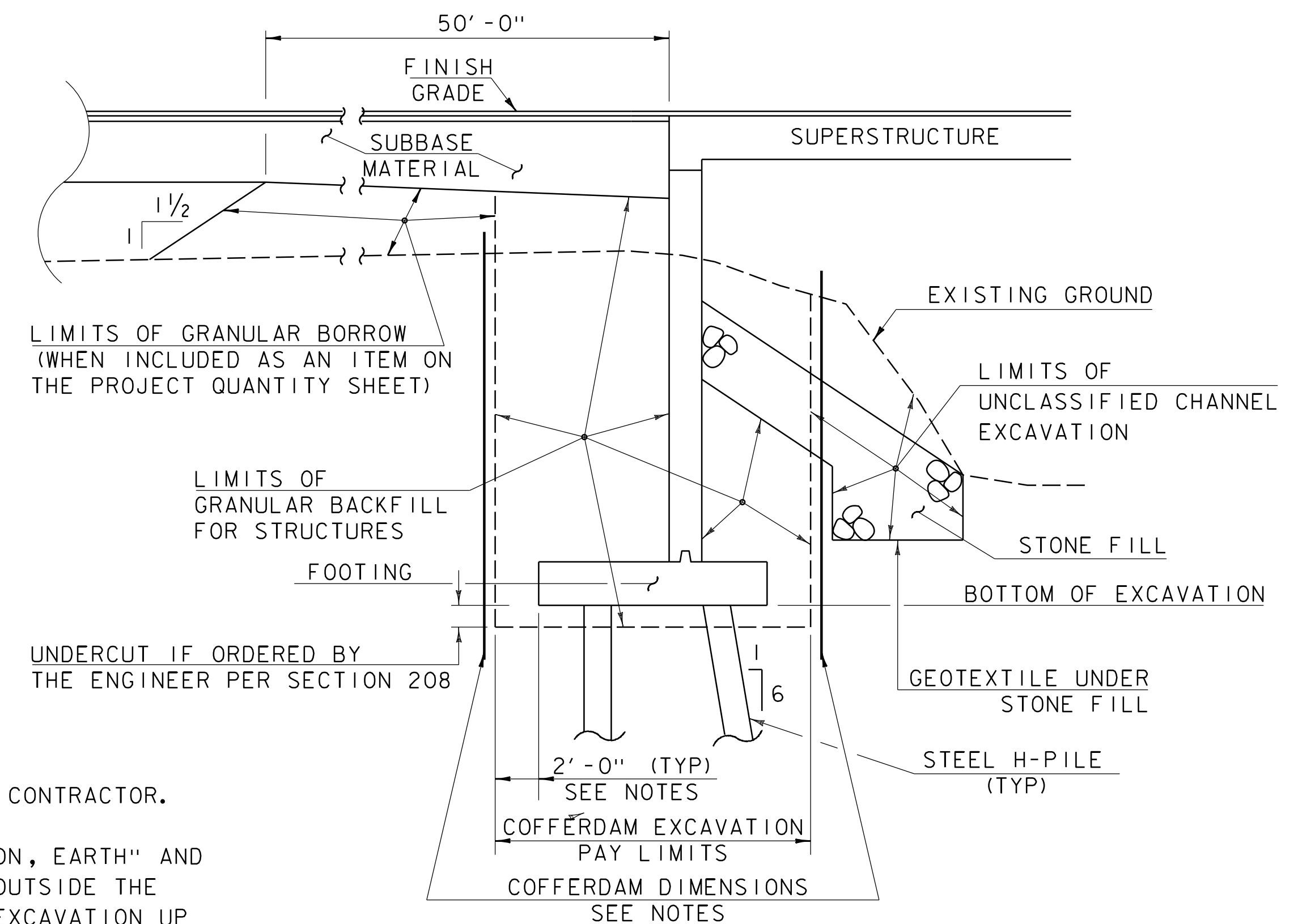


COFFERDAM AND EARTHWORK SECTION - PIER
(NOT TO SCALE)



TYPICAL CHANNEL SECTION
(NOT TO SCALE)

*GRUBBING MATERIAL SHALL NOT BE PLACED ON THE STONE FILL IN THE AREA UNDER THE BRIDGE. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



COFFERDAM AND EARTHWORK SECTION
ABUTMENT #1
(NOT TO SCALE)

COFFERDAM NOTES

1. COFFERDAM DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.
2. THE PAY LIMITS OF EITHER "COFFERDAM EXCAVATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK" SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING AND FROM BOTTOM OF EXCAVATION UP TO THE EXISTING GROUND OR BOTTOM OF SUBBASE, WHICHEVER IS LOWER.
3. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION. NO MEASUREMENT AND PAYMENT WILL BE MADE FOR COFFERDAM EXCAVATION AND GRANULAR BACKFILL FOR STRUCTURES OUTSIDE THE PAY LIMITS DEFINED IN NOTE 2.

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092+yp.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
EARTHWORKS	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	4 OF 100

GPS CONTROL POINTS

HVCRTL #1

JUNIOR

NORTH = 401716.542
EAST = 1511570.776
ELEV. = 540.347

GENERAL LOCATION, RUTLAND, VT. TO REACH FROM THE INTERSECTION OF U.S.ROUTE 7 (SOUTH MAIN STREET) AND U.S.ROUTE 4 EAST (WOODSTOCK AVENUE) GO SOUTH ALONG U.S.ROUTE 7 FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF MADISON STREET RIGHT. TURN RIGHT AND GO WEST ALONG MADISON STREET FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF STRONGS AVENUE LEFT AND RIGHT AND RIVER STREET STRAIGHT. CONTINUE STRAIGHT AHEAD AND GO WEST ALONG RIVER STREET FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF MEADOW STREET AND THE SITE OF THE MARK ON THE LEFT IN THE SOUTHWEST QUADRANT OF THE INTERSECTION. IT IS IN A GRASS STRIP BETWEEN THE ROAD AND A CONCRETE SIDEWALK. THE MARK IS SET 2 CM BELOW GROUND SURFACE IN THE TOP OF A 25 CM DIAMETER CONCRETE MONUMENT. IT IS 4.2 M (13.8 FT) SOUTH OF AND ABOUT LEVEL WITH THE CENTERLINE OF RIVER STREET, 27.6 M (90.6 FT) WEST OF THE CENTERLINE OF MEADOW STREET, 15.4 M (50.5 FT) NORTHWEST OF THE NORTHEAST CORNER OF HOUSE NO.79, AND 5.8 M (19.0 FT) EAST OF POLE NO.25/133T/20 AND A FIBERGLASS WITNESS POST.

HVCTRL #2

JUNIOR AZ MK

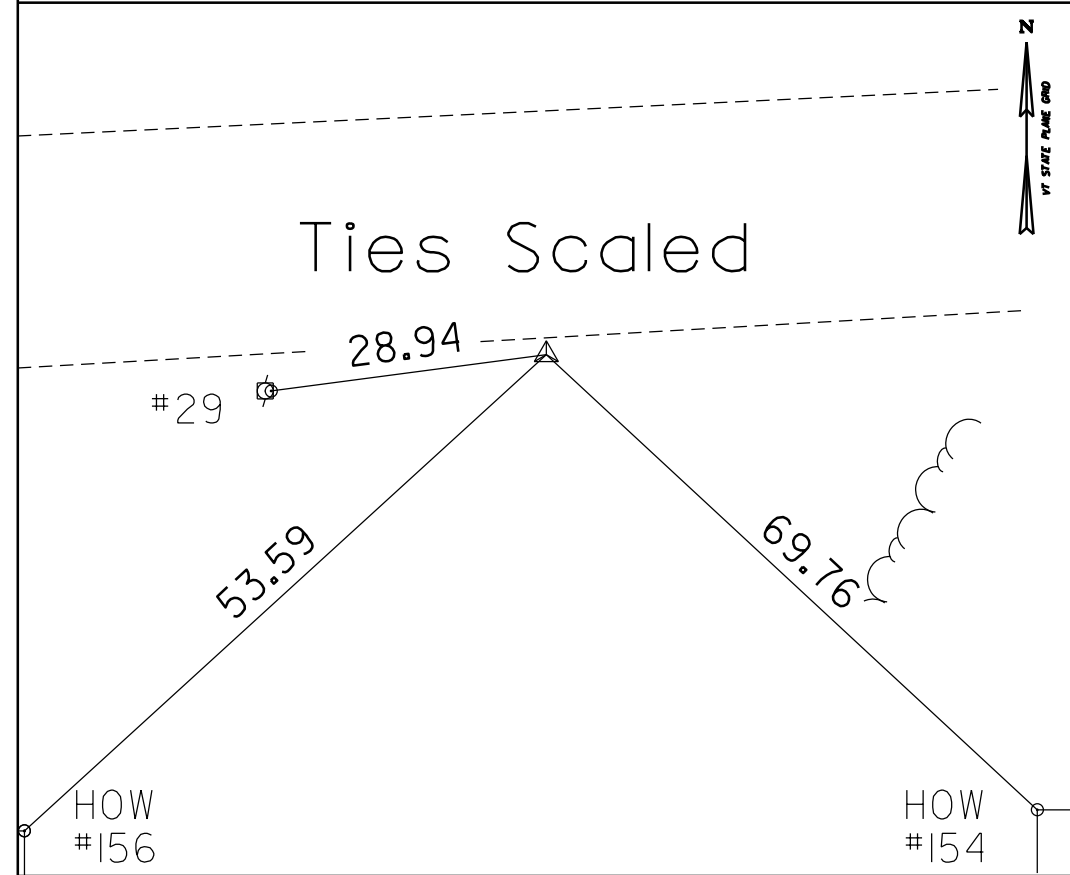
NORTH = 401611.277
EAST = 1509784.848
ELEV. = 530.330

GENERAL LOCATION, RUTLAND, VT. TO REACH FROM THE INTERSECTION OF U.S.ROUTE 7 (SOUTH MAIN STREET) AND U.S.ROUTE 4 EAST (WOODSTOCK AVENUE) GO SOUTH ALONG U.S.ROUTE 7 FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF MADISON STREET RIGHT. TURN RIGHT AND GO WEST ALONG MADISON STREET FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF STRONGS AVENUE LEFT AND RIGHT AND RIVER STREET STRAIGHT. CONTINUE STRAIGHT AHEAD AND GO WEST ALONG RIVER STREET FOR 0.5 MI (0.8 KM) TO THE INTERSECTION OF MEADOW STREET. CONTINUE STRAIGHT AHEAD AND GO WEST ALONG RIVER STREET FOR 0.4 MI (0.6 KM) TO THE T- INTERSECTION OF DORR DRIVE AND THE SITE OF THE MARK STRAIGHT AHEAD. THE MARK IS SET 5 CM BELOW GROUND SURFACE IN THE TOP OF A 25 CM DIAMETER CONCRETE MONUMENT. IT IS 7.2 M (23.6 FT) NORTH NORTHWEST OF AND ABOUT LEVEL WITH THE CENTERLINE INTERSECTION OF RIVER STREET AND DORR DRIVE, 20.4 M (66.9 FT) NORTHWEST OF A POLE, 24.7 M (81.0 FT) SOUTH OF POLE NO.37, AND 0.6 M (2.0 FT) EAST NORTHEAST OF POLE NO.133T/32 AND A FIBERGLASS WITNESS POST.

TRAVERSE TIES

HVCTRL #3

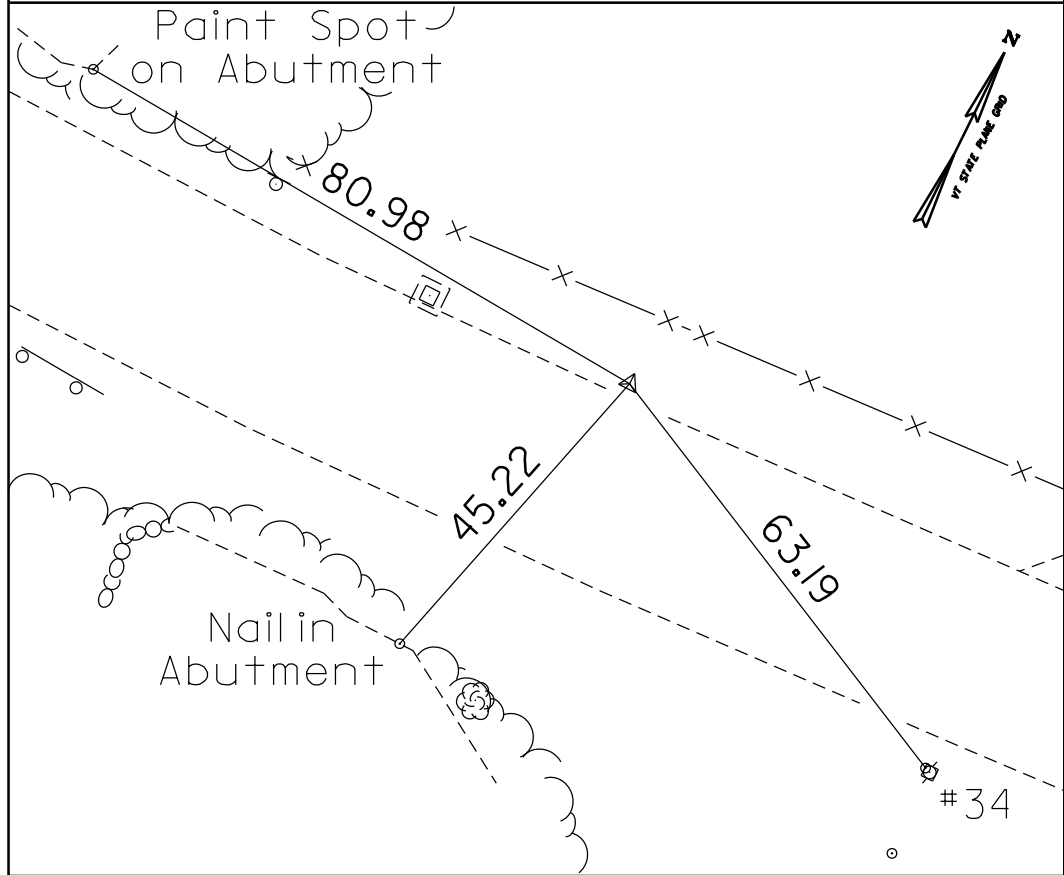
NORTH = 401675.402
EAST = 1511140.622
ELEV. = 536.67



* Main Traverse Completed 11/16/98 by Dubois & King

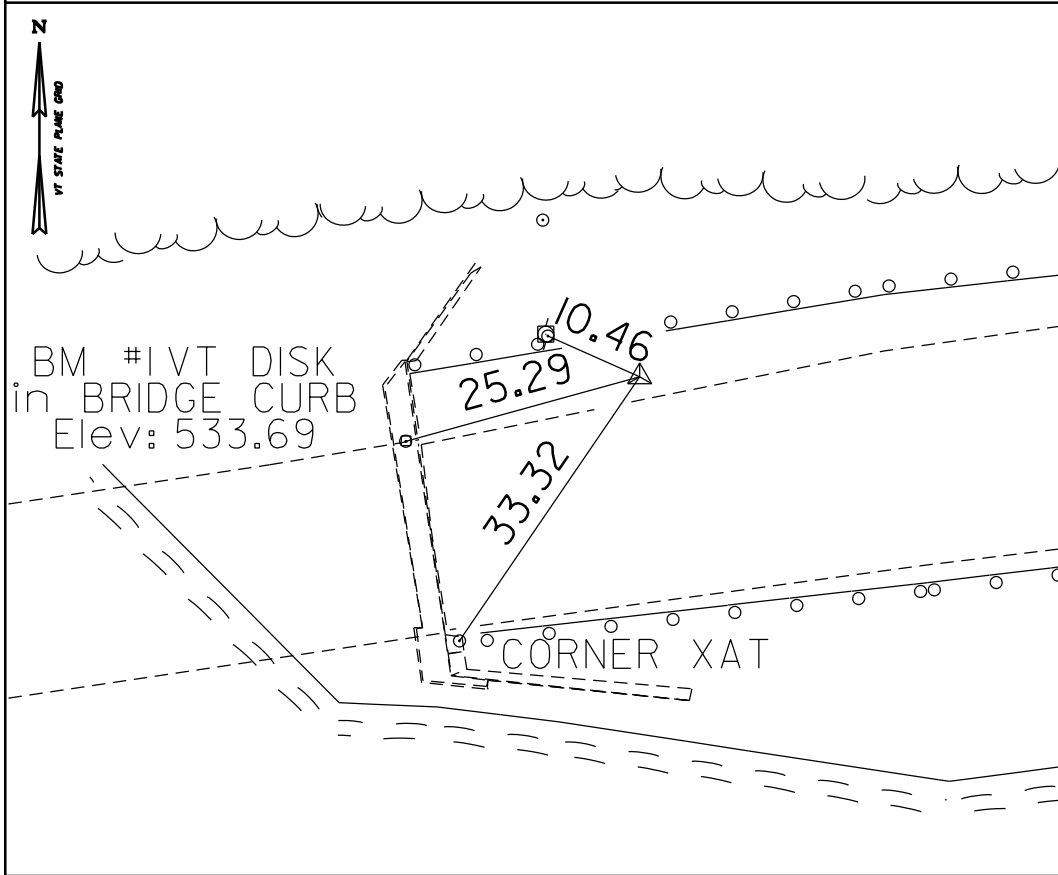
HVCTRL #4

NORTH = 401664.180
EAST = 1510463.976
ELEV. = 529.40



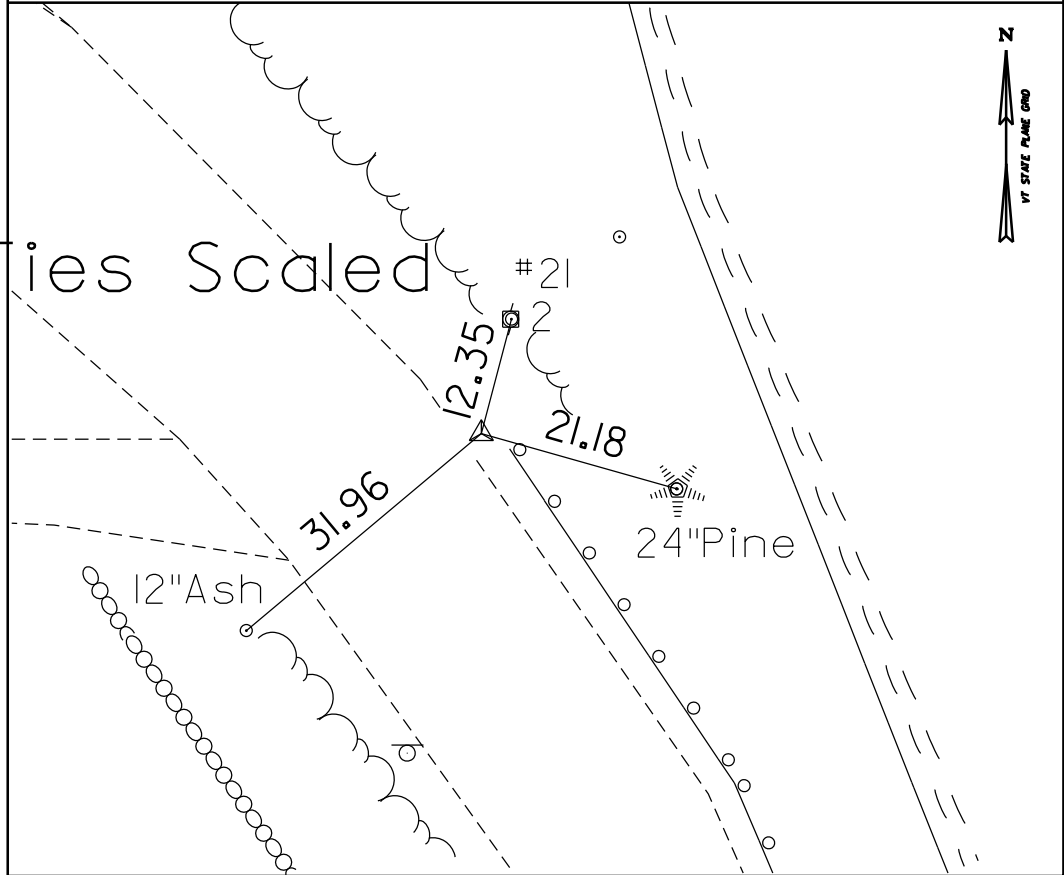
HVCTRL #5

NORTH = 401654.440
EAST = 1510092.459
ELEV. = 532.18



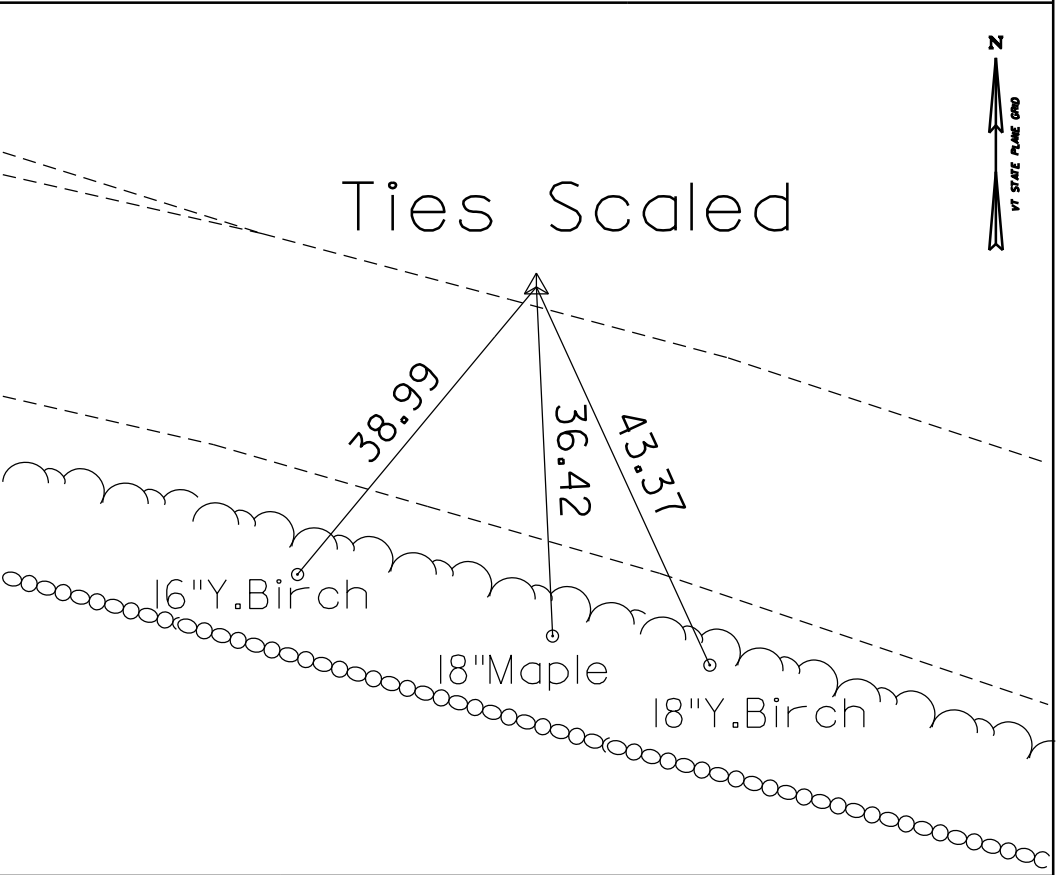
HVCTRL #6

NORTH = 401896.045
EAST = 1509721.677
ELEV. = 530.71



HVCTRL #7

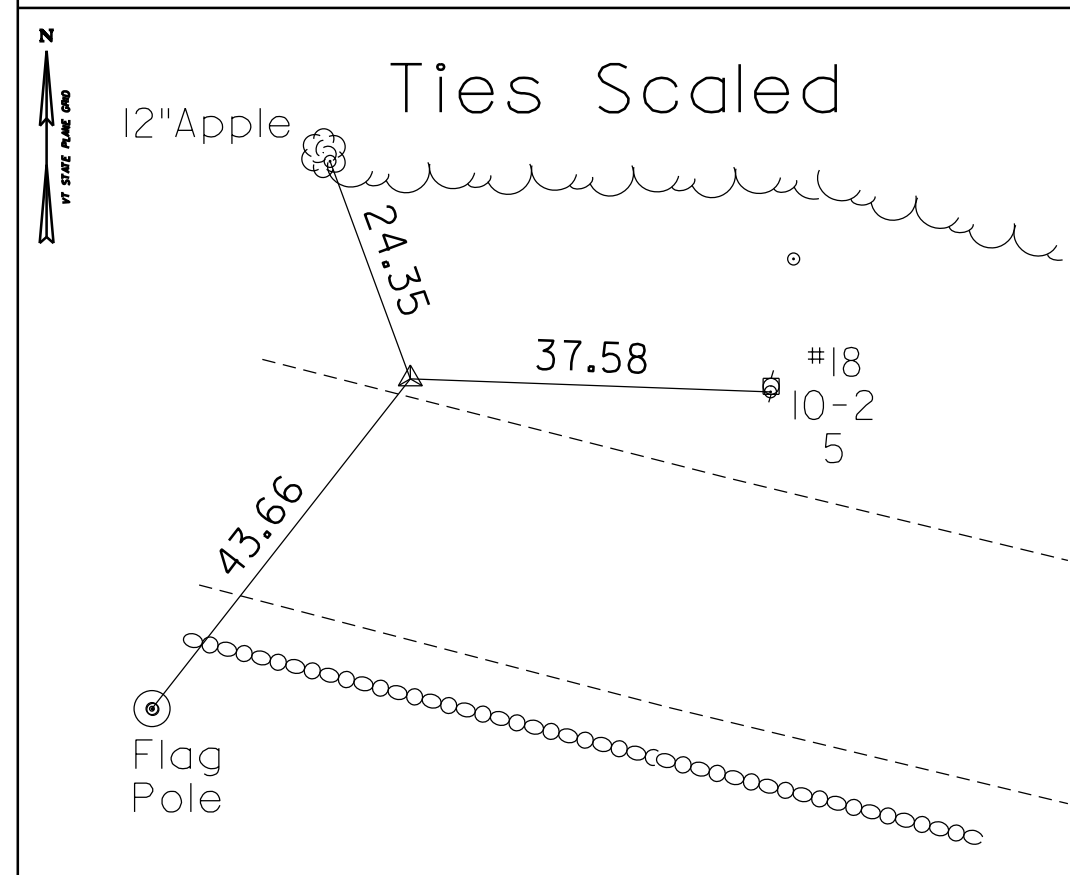
NORTH = 402085.743
EAST = 1509389.618
ELEV. = 538.53



TRAVERSE TIES

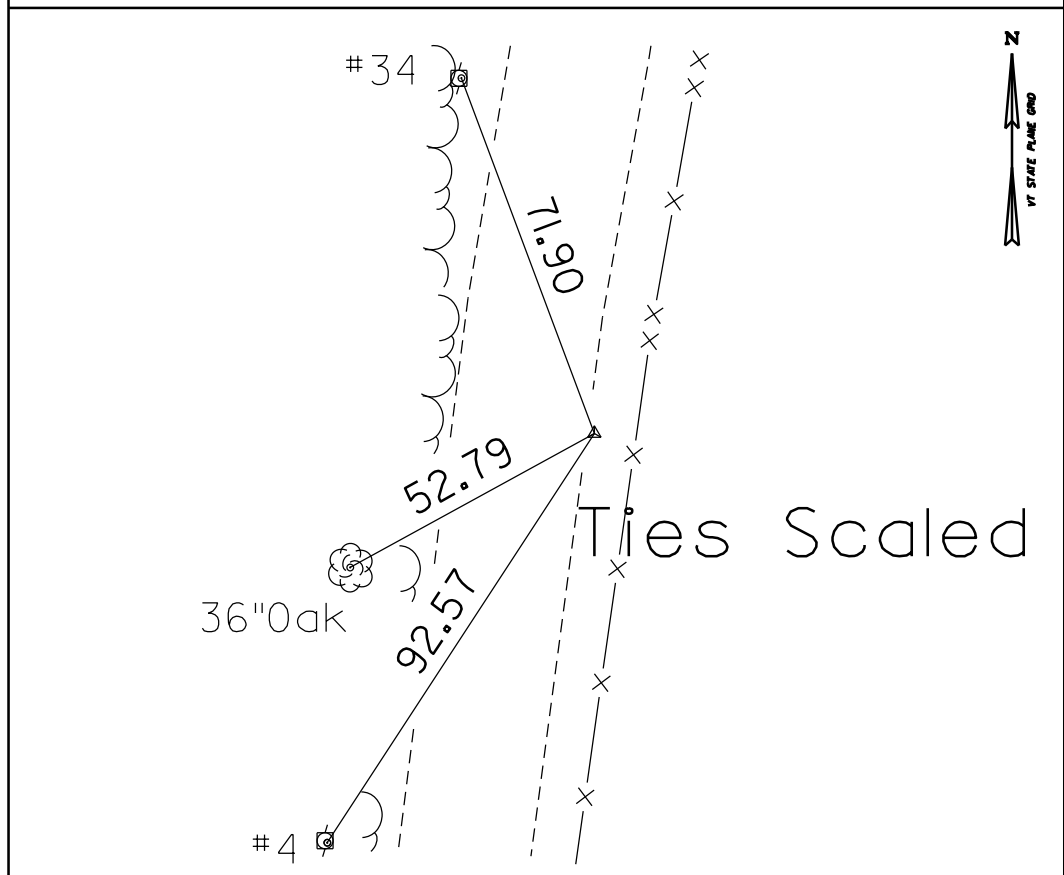
HVCTRL #8

NORTH = 402160.583
EAST = 1509085.167
ELEV. = 538.70



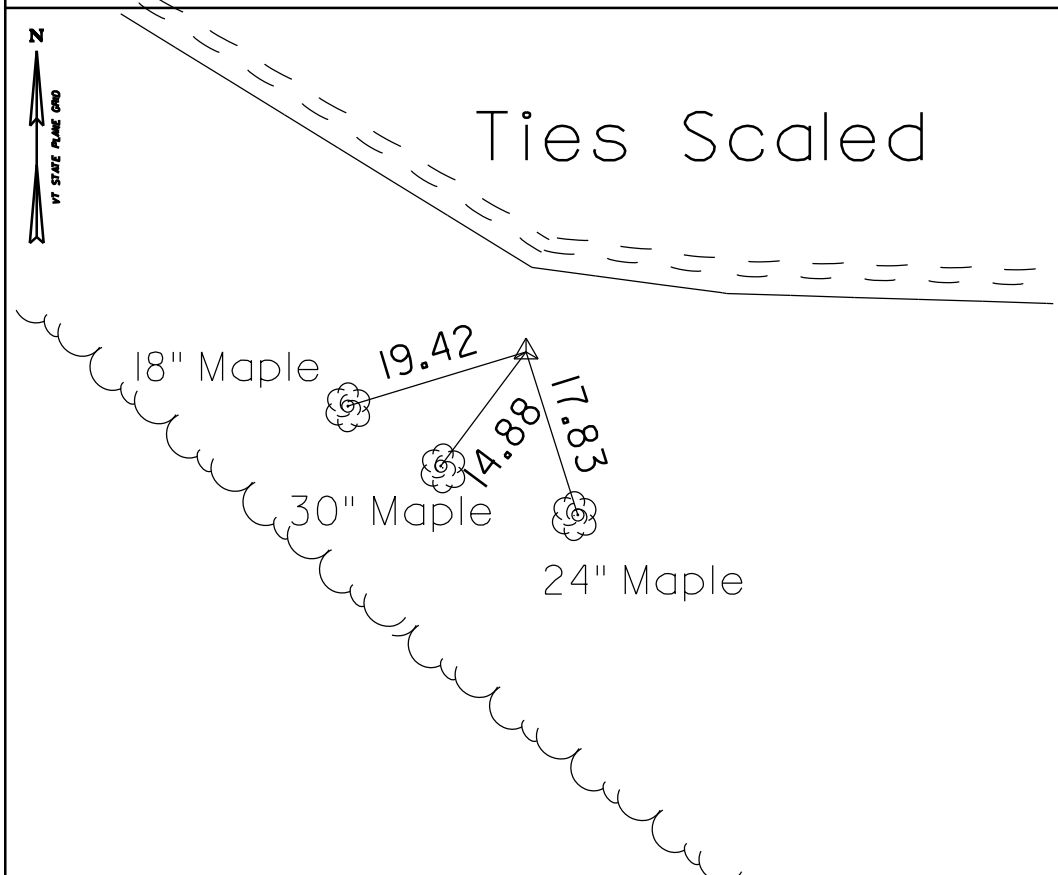
HVCTRL #21

NORTH = 401244.531
EAST = 1509749.315
ELEV. = 528.60



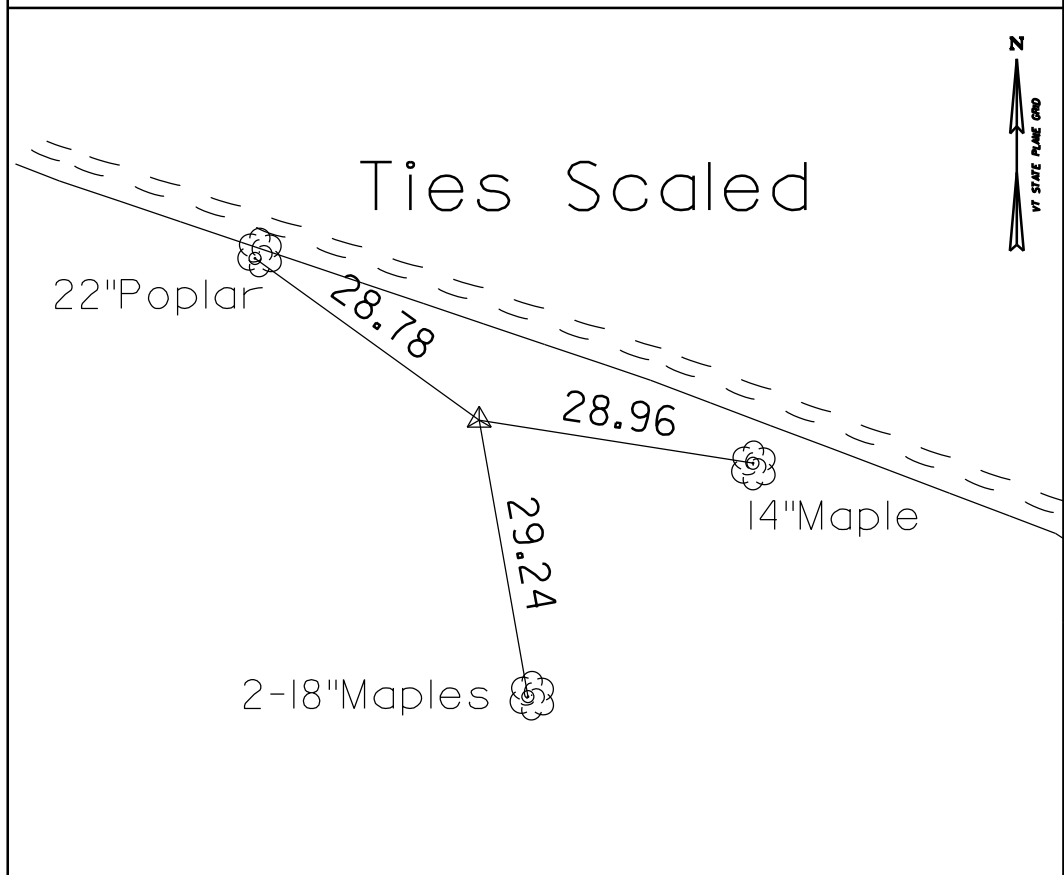
HVCTRL #51

NORTH = 401518.307
EAST = 1509947.290
ELEV. = 523.14



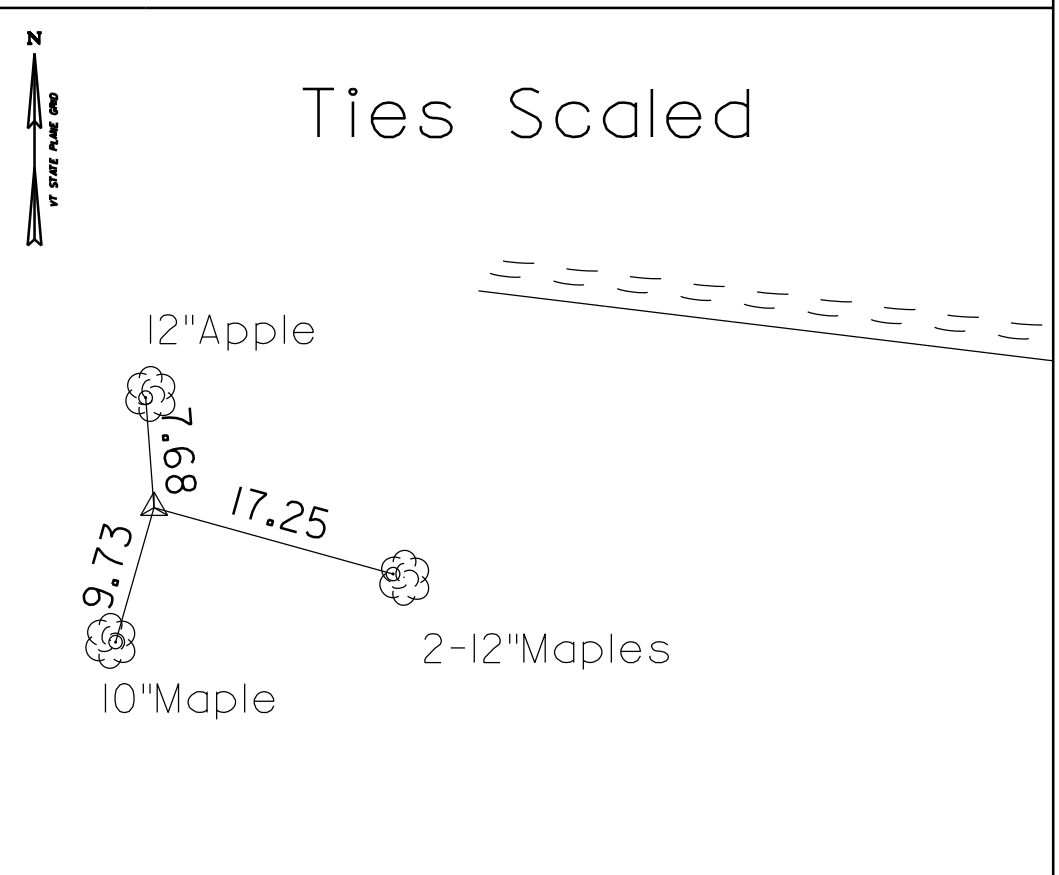
HVCTRL #71

NORTH = 402187.860
EAST = 1509496.297
ELEV. = 524.22



HVCTRL #81

NORTH = 402309.198
EAST = 1509083.333
ELEV. = 524.65



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(92)
ADJUSTMENT	Least Sq.

Traverse Points 4 & 5 were physically located in the field

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092tie.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TIE SHEET	
PLOT DATE:	1/28/2013
DRAWN BY:	R.BULLOCK
CHECKED BY:	D.E.F.
SHEET	5 OF 100

BOX BEAM GUARDRAIL
STA. 497+24 TO 499+25 LT

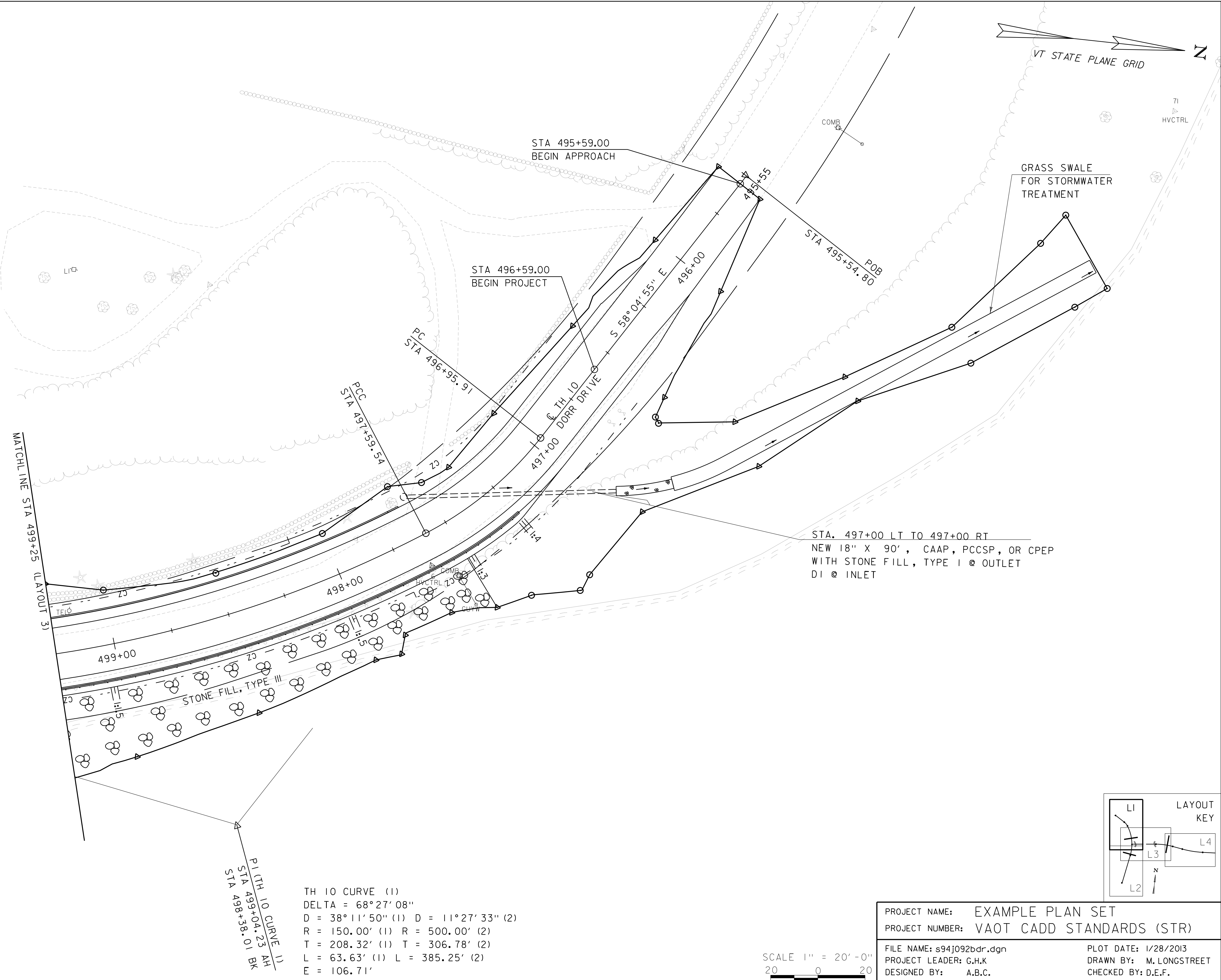
CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 497+65 TO 499+25 RT
STA. 497+24 TO 499+25 LT

STONE FILL, TYPE III
STA. 497+50 TO 499+25 LT

GEOTEXTILE UNDER STONE FILL
STA. 497+50 TO 499+25 LT

GRUBBING MATERIAL
STA. 497+50 TO 499+25 LT

UNCLASSIFIED CHANNEL EXCAVATION
STA. 497+50 TO 499+25 LT

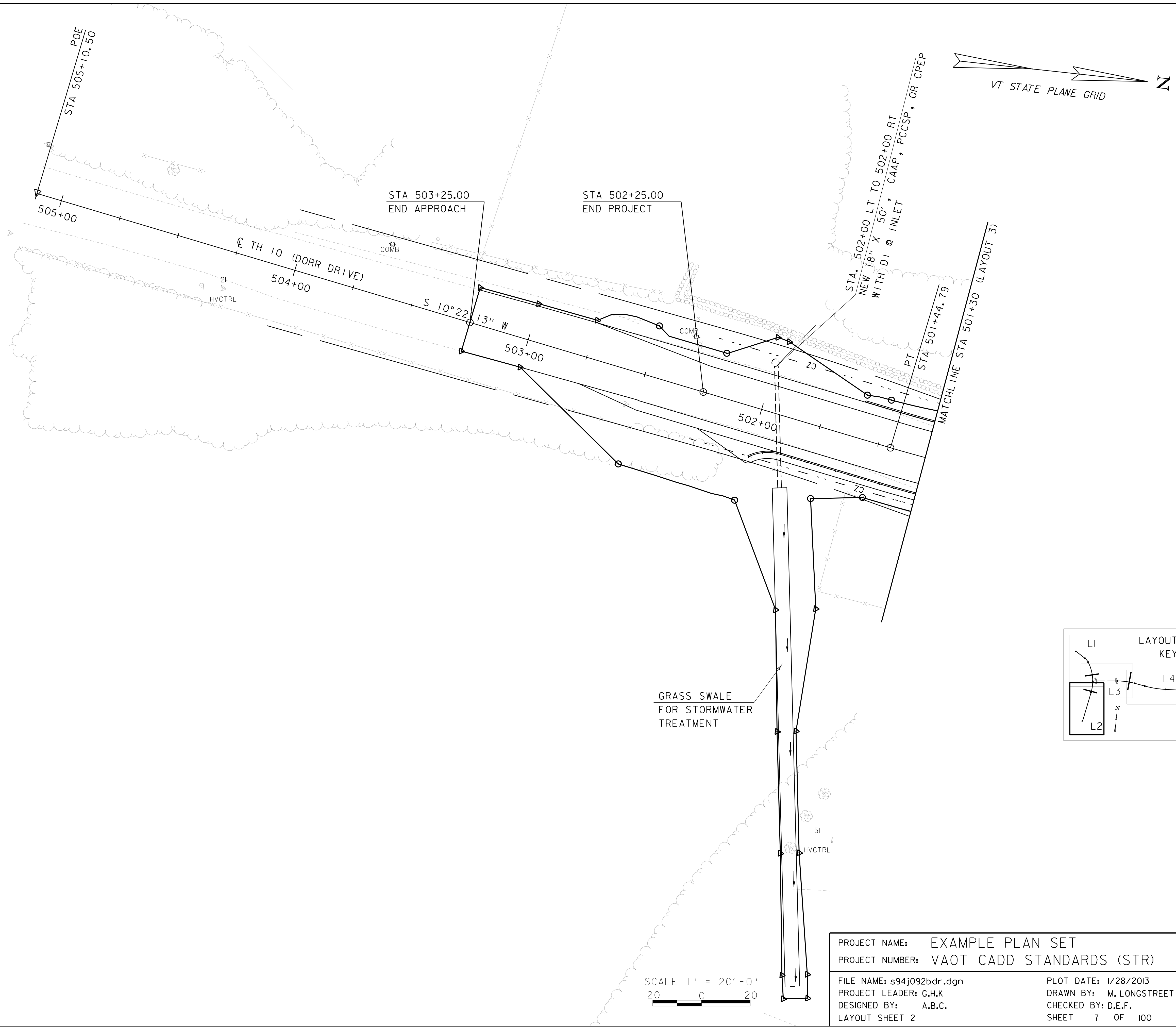


TH 10 CURVE (1)
DELTA = 68°27'08"
D = 38°11'50" (1) D = 11°27'33" (2)
R = 150.00' (1) R = 500.00' (2)
T = 208.32' (1) T = 306.78' (2)
L = 63.63' (1) L = 385.25' (2)
E = 106.71'

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092bdr.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
LAYOUT SHEET	1
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	6 OF 100

BOX BEAM GUARDRAIL
STA. 501+30 TO 502+00 LT

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 501+30 TO 501+60 RT



PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
LAYOUT SHEET 2	SHEET 7 OF 100

BOX BEAM GUARDRAIL (TH-8)
STA 100+11.47 - STA 100+17.97 LT
STA 100+13.65 - STA 100+20.32 RT
STA 103+49.15 - STA 104+50 LT
STA 103+58.77 - STA 104+50 RT

BOX BEAM GUARDRAIL (PUMP HOUSE DRIVE)
STA. 20+56.78 -2I+09.57 LT
STA. 20+36.45 -2I+09.57 RT

BOX BEAM GUARDRAIL (TH-10)
STA 499+25.00 - STA 499+39.91 LT
STA 500+84.28 - STA 501+30 LT

GUARDRAIL APPROACH SECTION,
GALVANIZED 3 RAIL BOX BEAM (TH-8)
STA 100+17.97 - STA 100+39.23 LT
STA 100+20.32 - STA 100+48.19 RT
STA 103+17.15 - STA 103+49.15 LT
STA 103+26.77 - STA 103+58.77 RT

SPECIAL PROVISION (BRIDGE RAIL, CONCRETE) (TH-8)
STA 100+39.23 - STA 103+17.15 LT
STA 100+48.19 - STA 103+26.77 RT

CAST-IN-PLACE CONCRETE CURB, TYPE B (TH-8)
STA 100+22.61- STA 100+44.47 LT
STA 103+18.57- STA 104+50 RT

CAST IN PLACE CONCRETE CURB, TYPE B (TH-10)
STA 499+25 - 501+30 RT

PORTLAND CEMENT CONCRETE SIDEWALK, 5" (TH-8)
STA 100+22.61- STA 100+44.47 LT
STA 103+18.57- STA 104+50 LT

DRY MASONRY
STA 499+25 - STA 501+00 LT

CONSTRUCT PUMP HOUSE UTILITY DRIVE (TH-10)
STA 500+65.43 LT

4" YELLOW LINE (DOUBLE) (TH-8)
STA 100+10 - STA 104+50.00

4" YELLOW LINE (DOUBLE) (TH-10)
STA 499+25.00 - 499+89.89
STA 500+10.11- STA 501+30.00

4" WHITE LINE (TH-10)
STA 499+25.00 - STA 499+89.89 LT
STA 500+10.11- STA 501+30.00 LT
STA 499+25.00 - STA 501+30.00 RT

4" WHITE LINE (TH-8)
STA 100+10 - STA 104+50.00 LT
STA 100+10 - STA 104+50.00 RT

TH 8 CURVE (1)
DELTA = 15°26'29"
D = 07°09'43"
R = 800.00'
T = 108.46'
L = 215.60'
E = 7.32'

CHANNEL LINE
STA 100+25.00 TH 8 =
STA 71+50.00 CHANNEL
DELTA = 104°00'00"

STA 102+06.00
CL PIER

STA 103+22.59
END BRIDGE

PI (TH 8 CURVE 1)
STA 104+13.62 AH
STA 104+12.30 BK

POC STA 100+00.00 TH-10 =
POB STA 500+00.00 TH-8
Δ 90° LT

PT
STA 20+79.57

POC STA 500+65.43 TH-10 =
POE STA 20+94.57 PH DRIVE
Δ 90° LT

STA 100+43.94
BEGIN BRIDGE

CL TH 8 (RIVER STR.)
101+00

N 83°46'41" E

102+00

103+00

104+00

PI (PUMP
HOUSE CURVE 1)
STA 20+65.30 BK
20+54.57 AH

STONE FILL, TYPE III

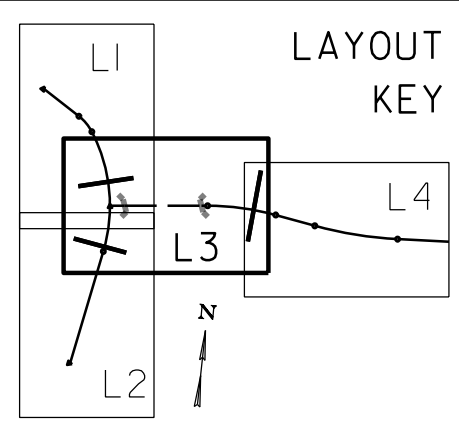
STA 20+40.30
PC
UTIL

STA. 20+05.00
BEGIN DRIVE CONSTRUCTION
PUMP HOUSE DRIVE

POB
STA 20+00.00

PUMP HOUSE CURVE (1)
DELTA = 90°00'00"
D = 229°10'59"
R = 25.00'
T = 25.00'
L = 39.27'
E = 10.36'

B.M. #2900
VT DISK IN BRIDGE CURB
EL = 533.6905



PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)

FILE NAME: s94j092bdr.dgn
PROJECT LEADER: G.H.K
DESIGNED BY: A.B.C.
LAYOUT SHEET 3

PLOT DATE: 1/28/2013
DRAWN BY: M. LONGSTREET
CHECKED BY: D.E.F.
SHEET 8 OF 100

SCALE 1" = 20' - 0"
20 0 20

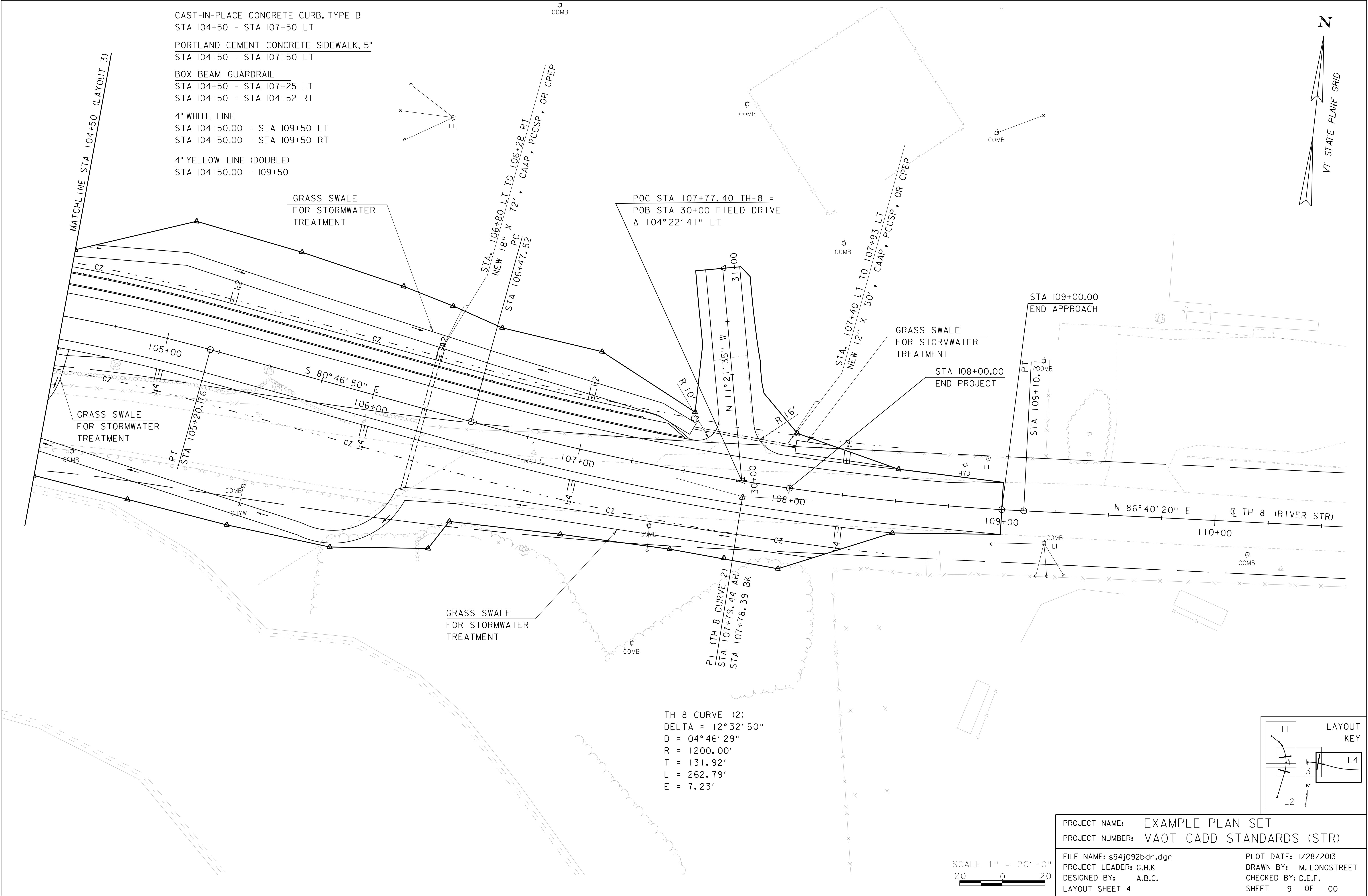
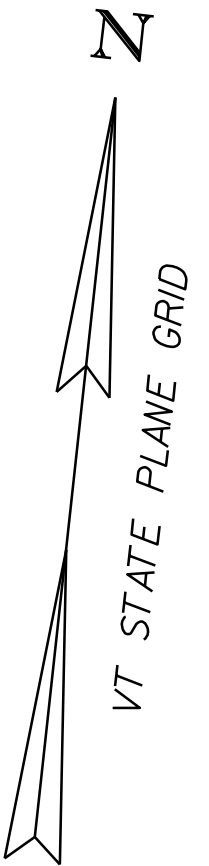
CAST-IN-PLACE CONCRETE CURB, TYPE B
STA 104+50 - STA 107+50 LT

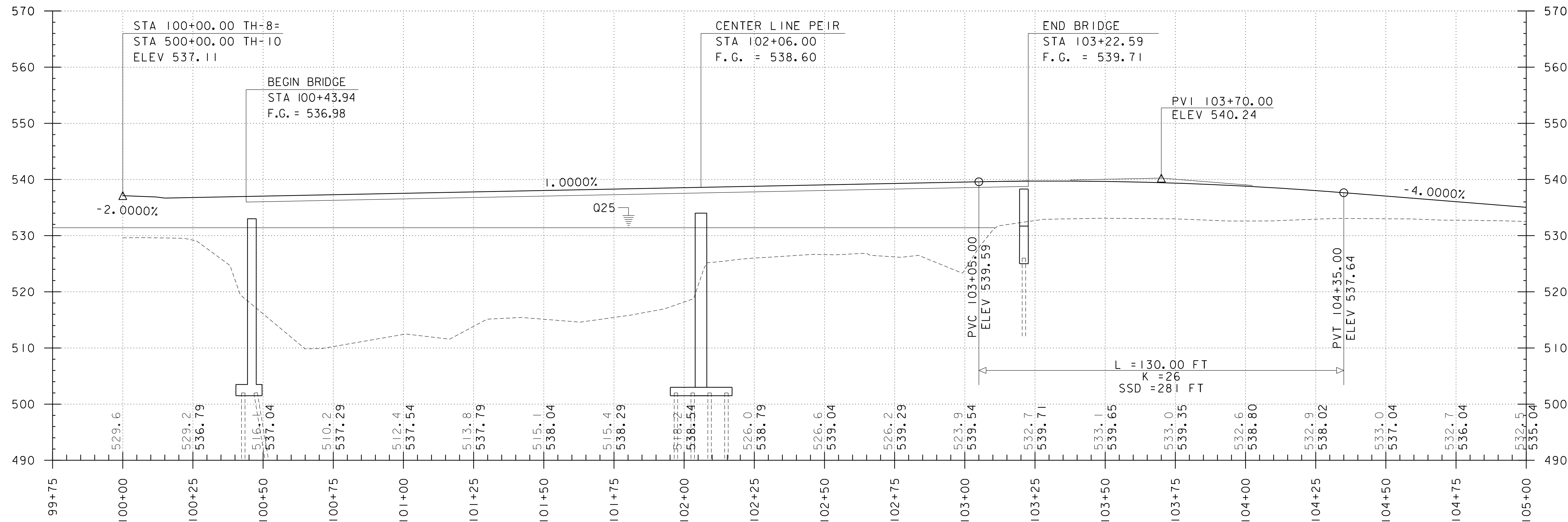
PORTLAND CEMENT CONCRETE SIDEWALK, 5"
STA 104+50 - STA 107+50 LT

BOX BEAM GUARDRAIL
STA 104+50 - STA 107+25 LT
STA 104+50 - STA 104+52 RT

4" WHITE LINE
STA 104+50.00 - STA 109+50 LT
STA 104+50.00 - STA 109+50 RT

4" YELLOW LINE (DOUBLE)
STA 104+50.00 - 109+50





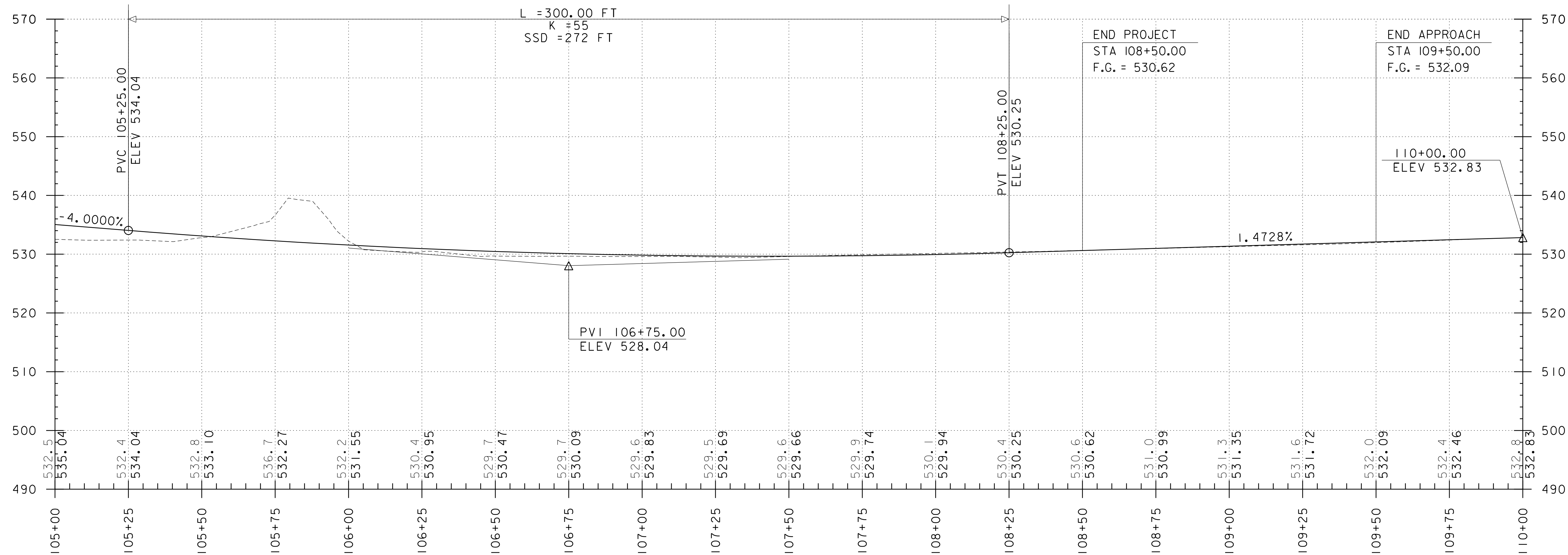
TH-8 (RIVER STREET) PROFILE (PART 1)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE 1" = 10'

GRADES SHOWN TO THE NEAREST
TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST
HUNDREDTH ARE FINISH GRADE

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092pro.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TH-8 PROFILE SHEET 1	
PLOT DATE:	1/28/2013
DRAWN BY:	M.LONGSTREET
CHECKED BY:	D.E.F.
SHEET	10 OF 100



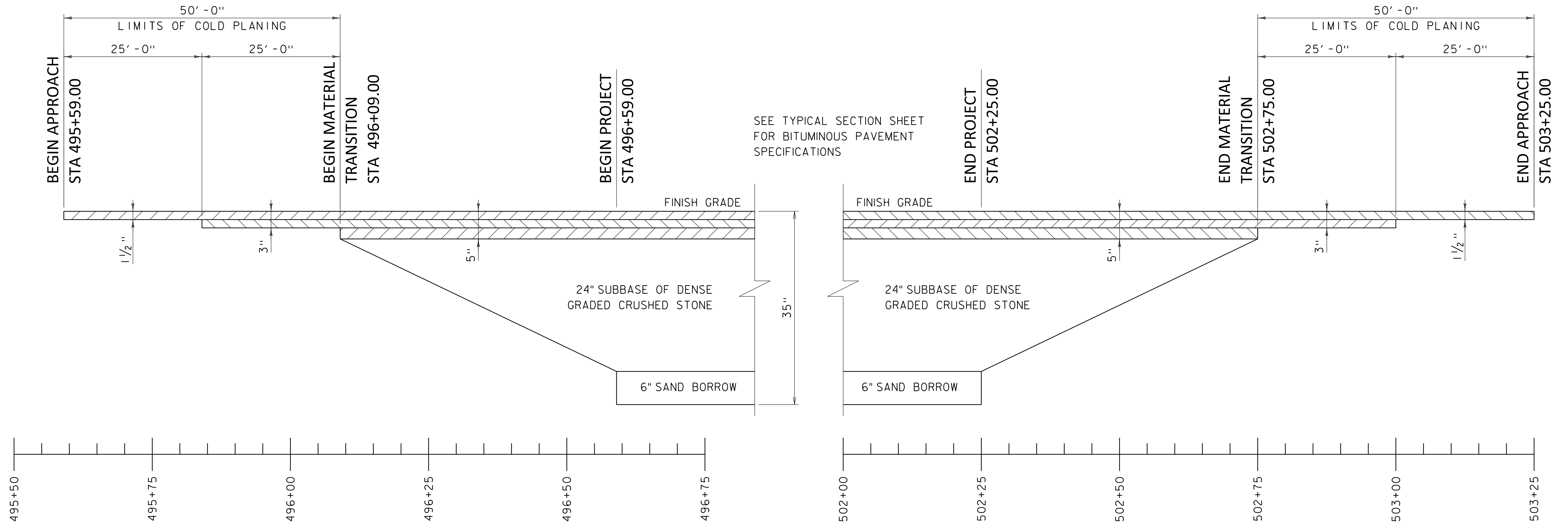
TH-8 (RIVER STEET) PROFILE (PART 2)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE 1" = 10'

GRADES SHOWN TO THE NEAREST
TENTH ARE EXISTING GROUND

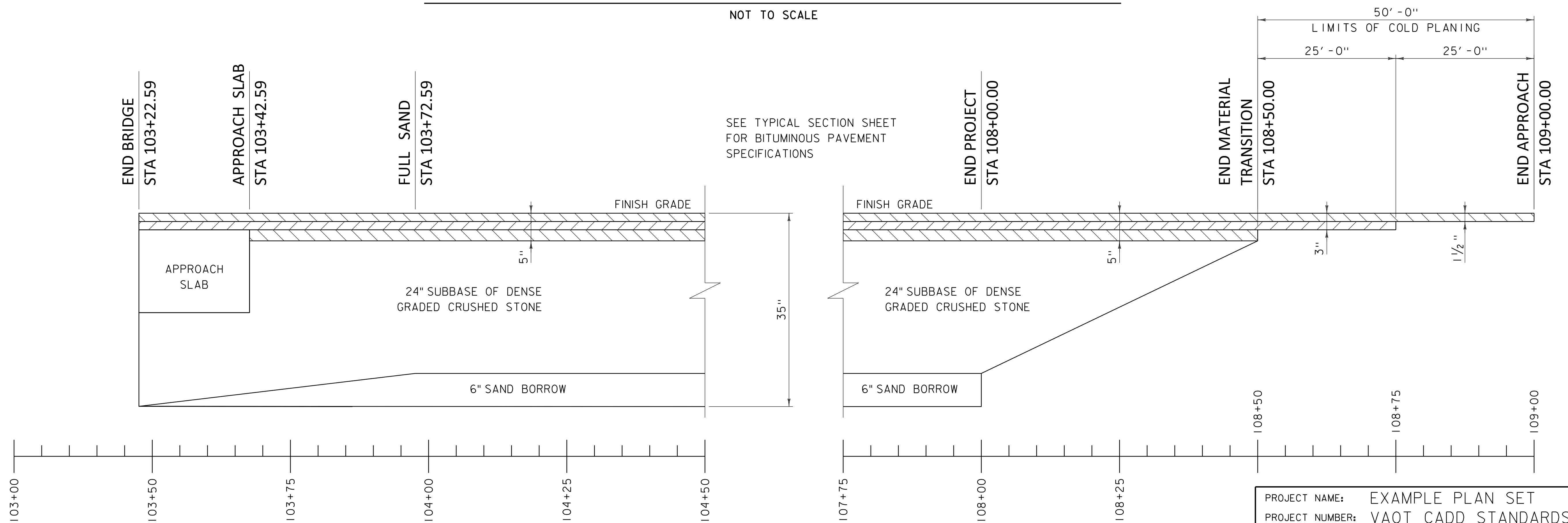
GRADES SHOWN TO THE NEAREST
HUNDREDTH ARE FINISH GRADE

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092pro.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-8 PROFILE SHEET 2	SHEET II OF 100



TH-10 (DORR DRIVE) MATERIAL TRANSITION DETAIL

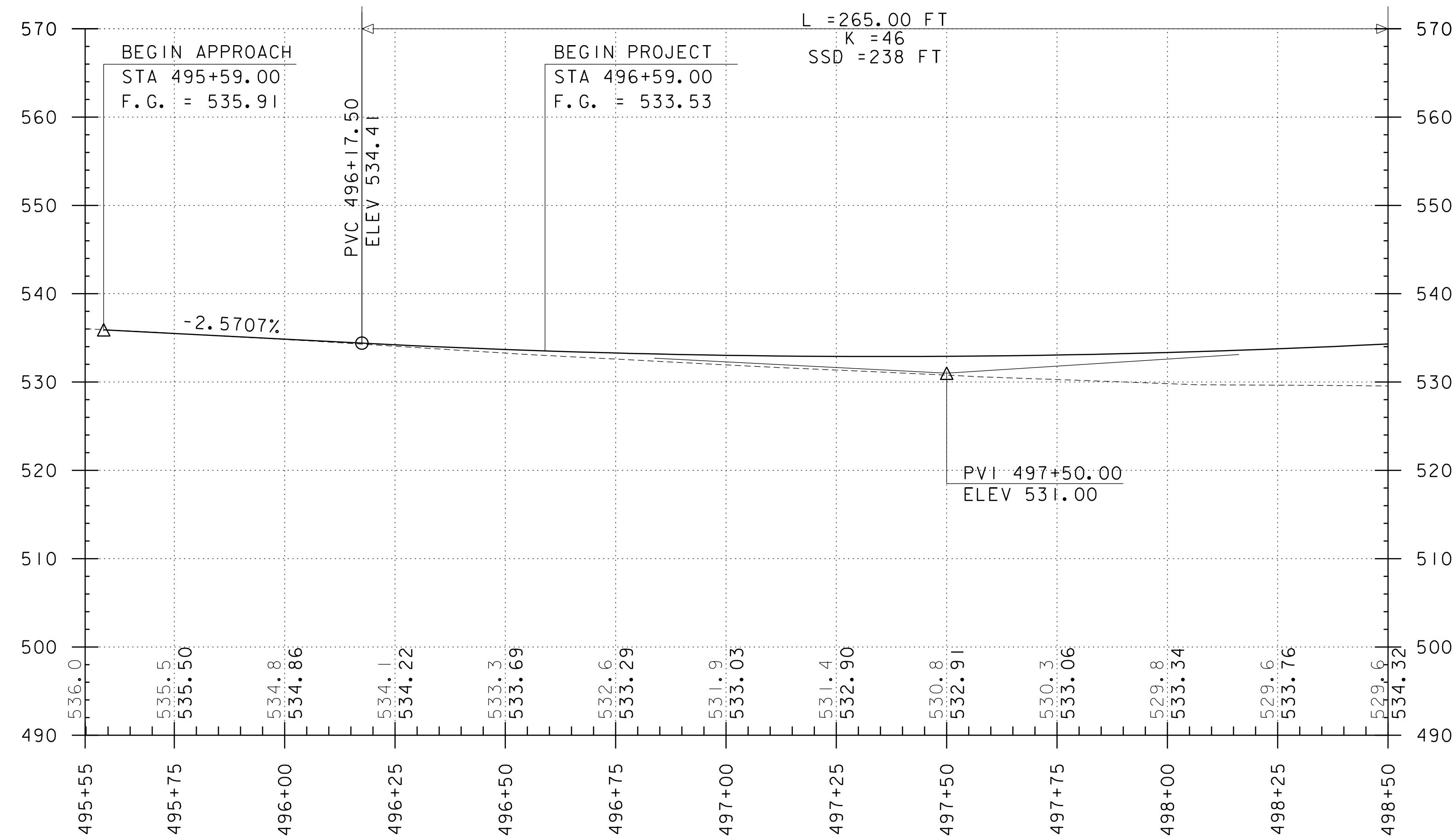
NOT TO SCALE



TH-8 (RIVER STREET) MATERIAL TRANSITION DETAIL

NOT TO SCALE

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092pro.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
MATERIAL TRANSITION SHEET	SHEET 12 OF 100



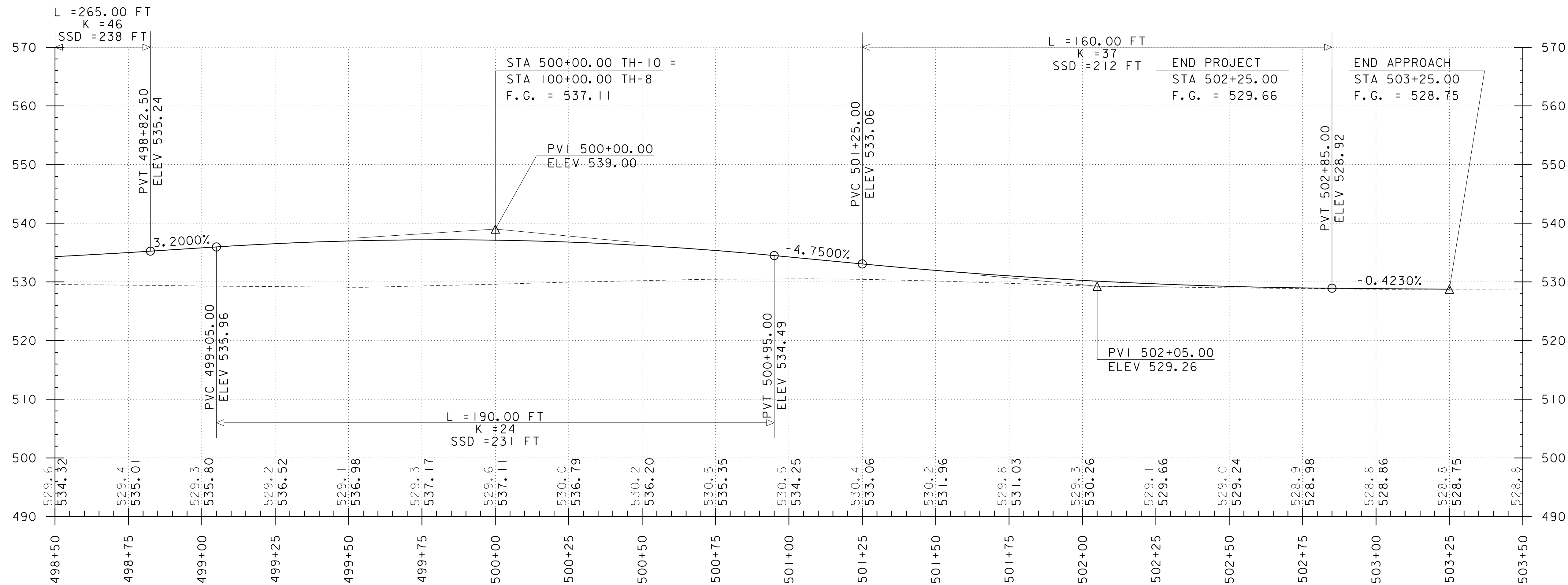
TH-10 (DORR DRIVE) PROFILE (PART 1)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE 1" = 10'

GRADES SHOWN TO THE NEAREST
TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST
HUNDREDTH ARE FINISH GRADE

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092pro.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TH-10 PROFILE SHEET 1	
PLOT DATE:	1/28/2013
DRAWN BY:	M.LONGSTREET
CHECKED BY:	D.E.F.
SHEET	13 OF 100



TH-10 (DORR DRIVE) PROFILE (PART 2)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE 1" = 10'

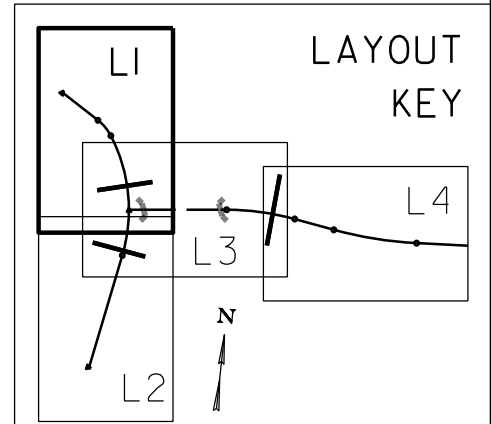
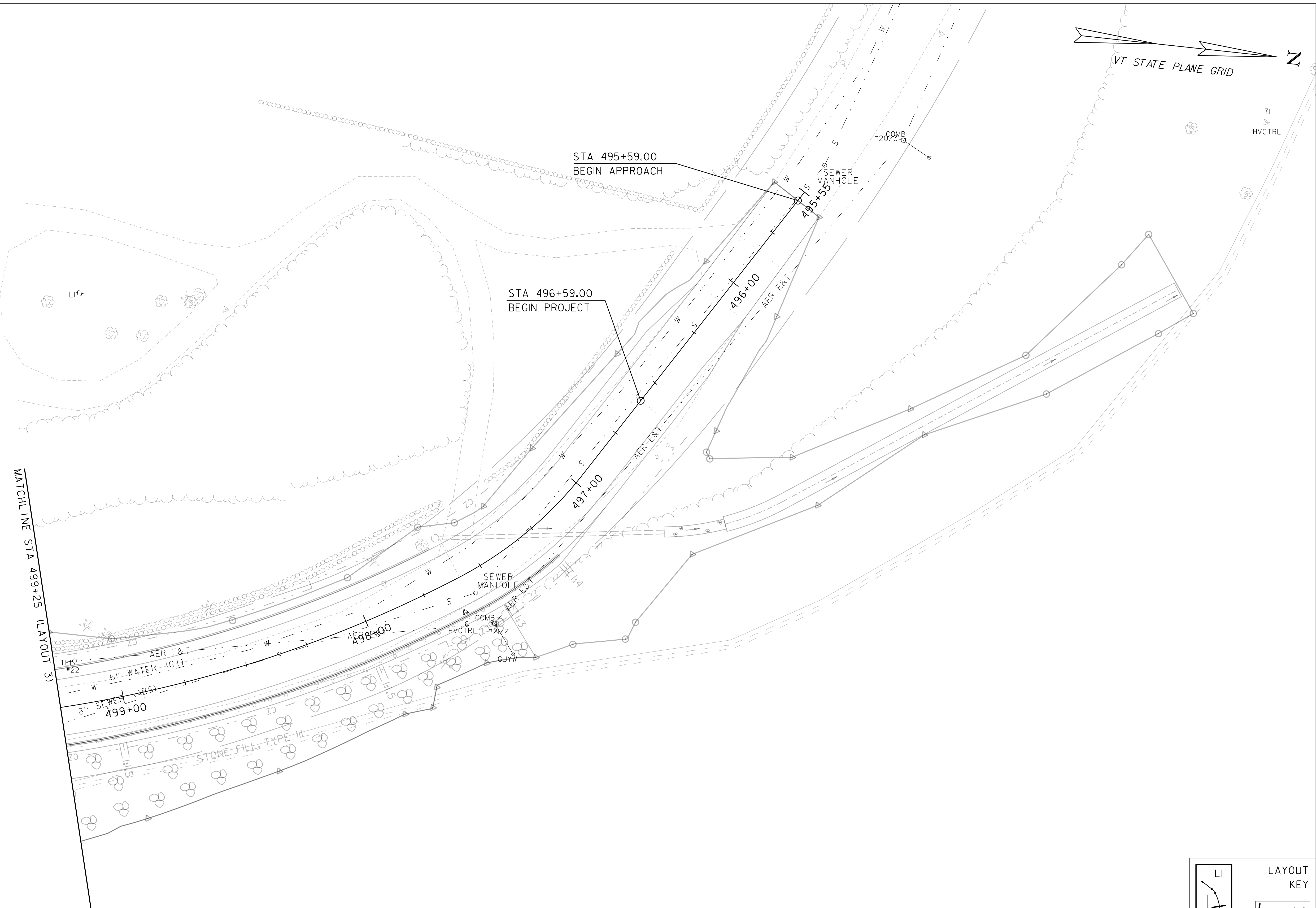
GRADES SHOWN TO THE NEAREST
TENTH ARE EXISTING GROUND

GRADES SHOWN TO THE NEAREST
HUNDREDTH ARE FINISH GRADE

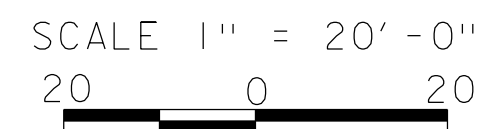
PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)

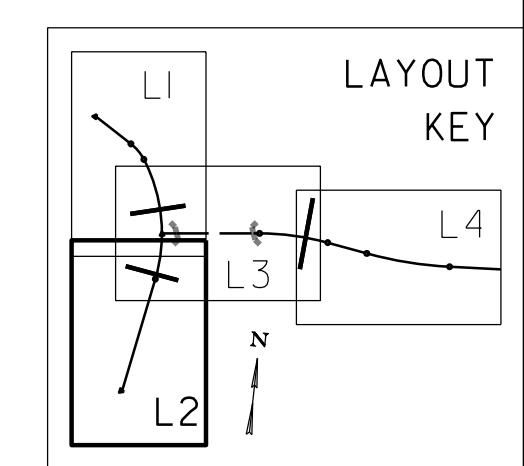
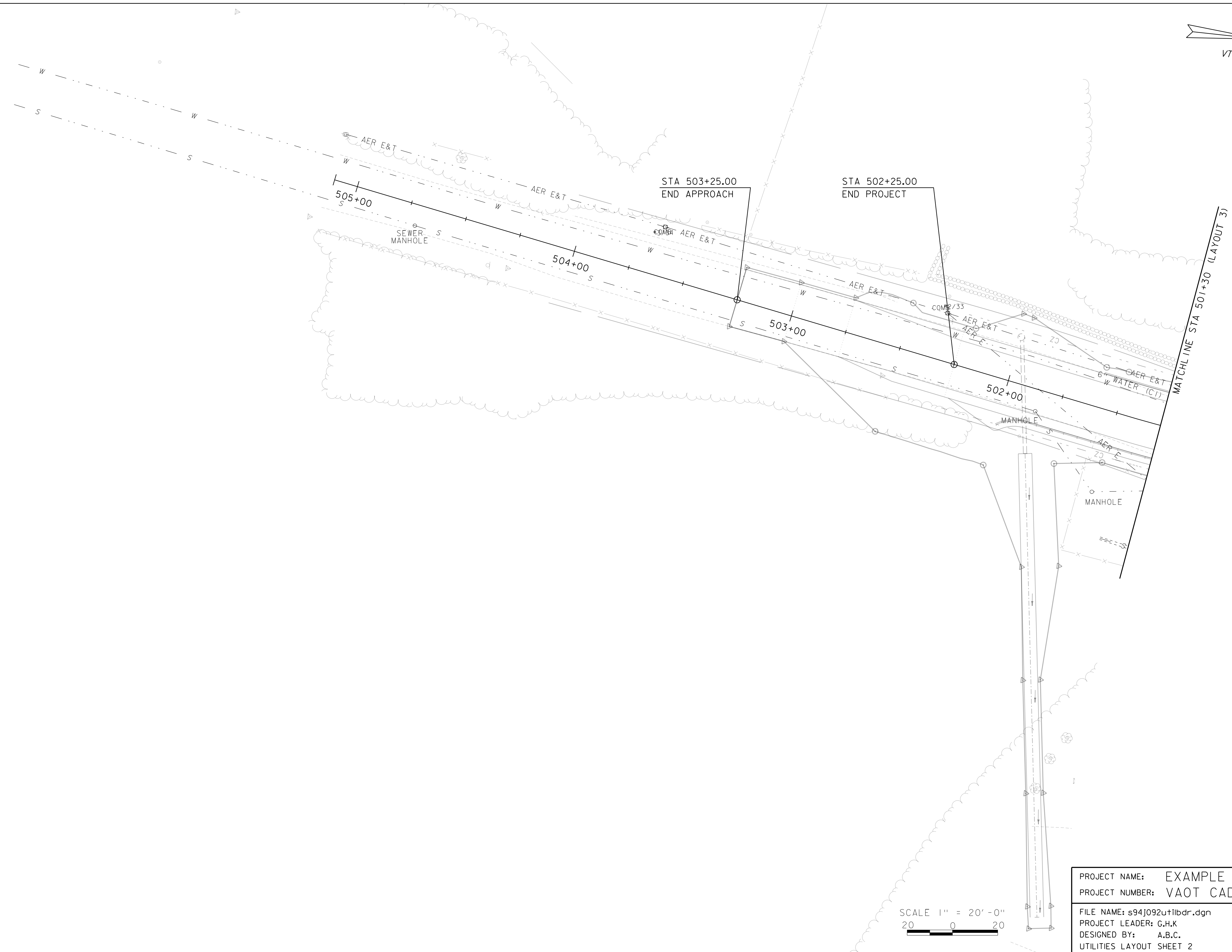
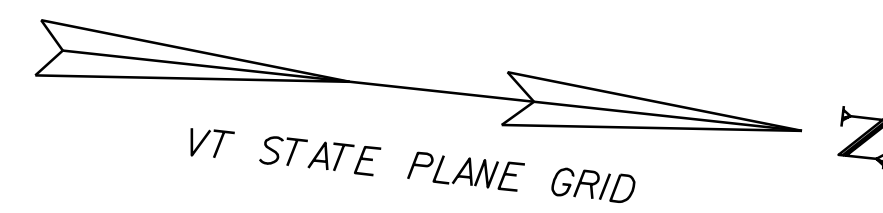
FILE NAME: s94j092pro.dgn
PROJECT LEADER: G.H.K
DESIGNED BY: A.B.C.
TH-10 PROFILE SHEET 2

PLOT DATE: 1/28/2013
DRAWN BY: M.LONGSTREET
CHECKED BY: D.E.F.
SHEET 14 OF 100



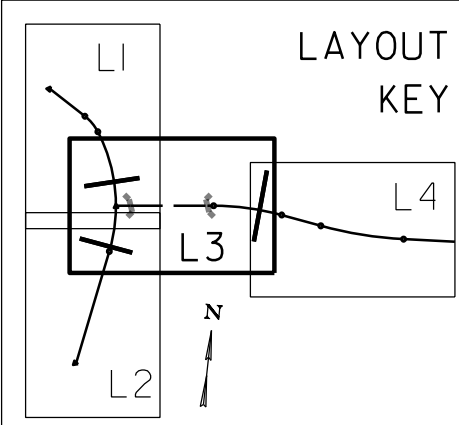
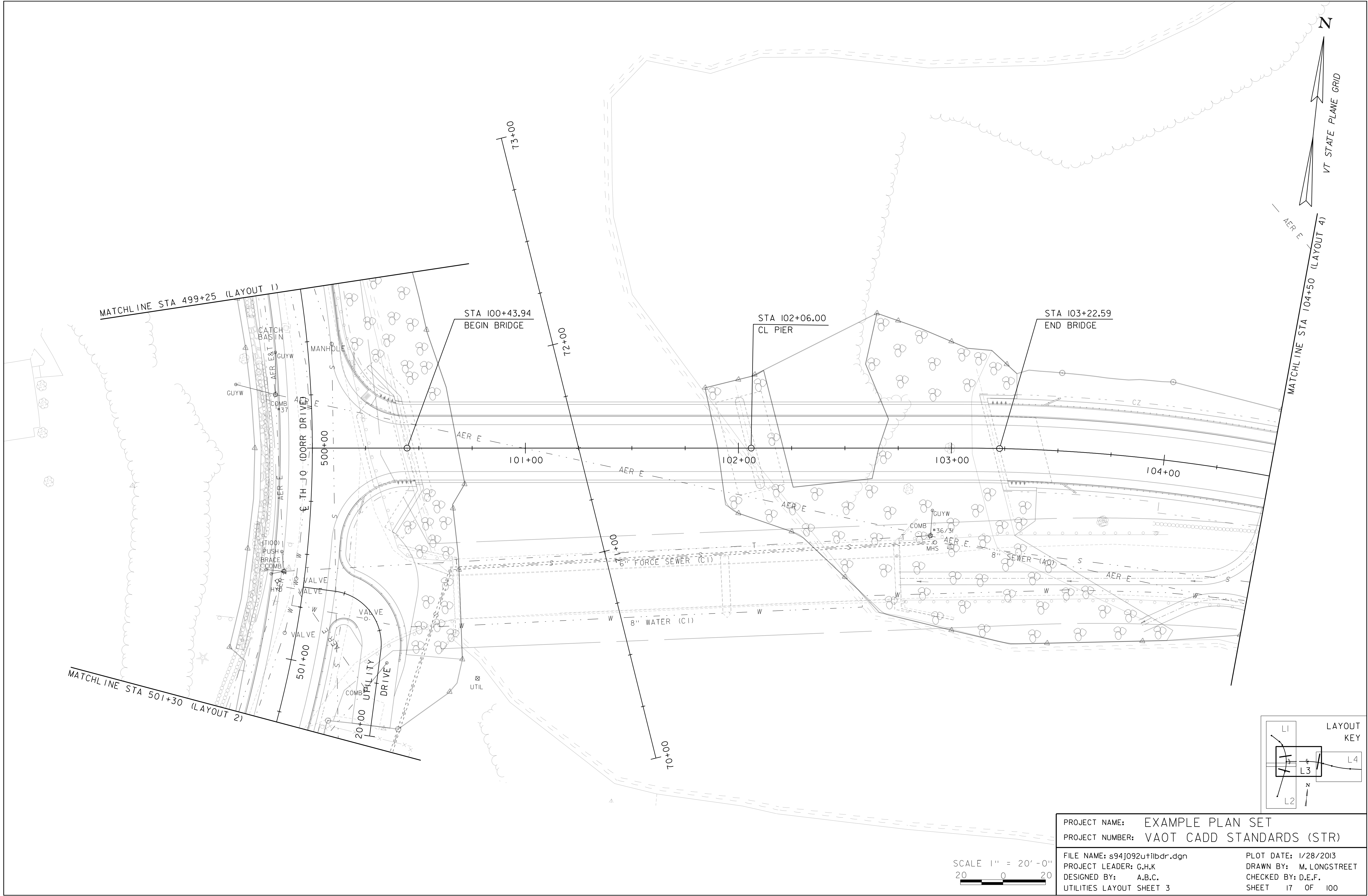
PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092utilbdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
UTILITIES LAYOUT SHEET 1	SHEET 15 OF 100



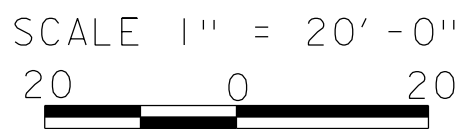


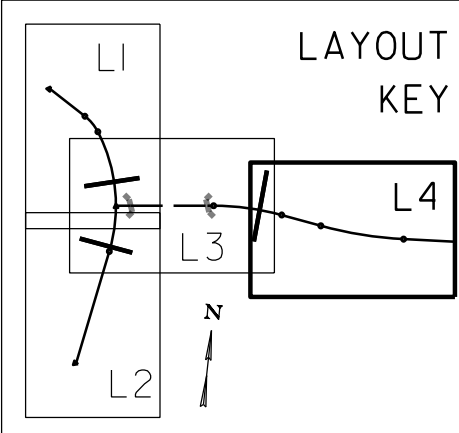
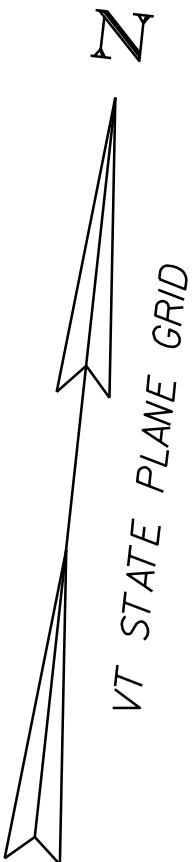
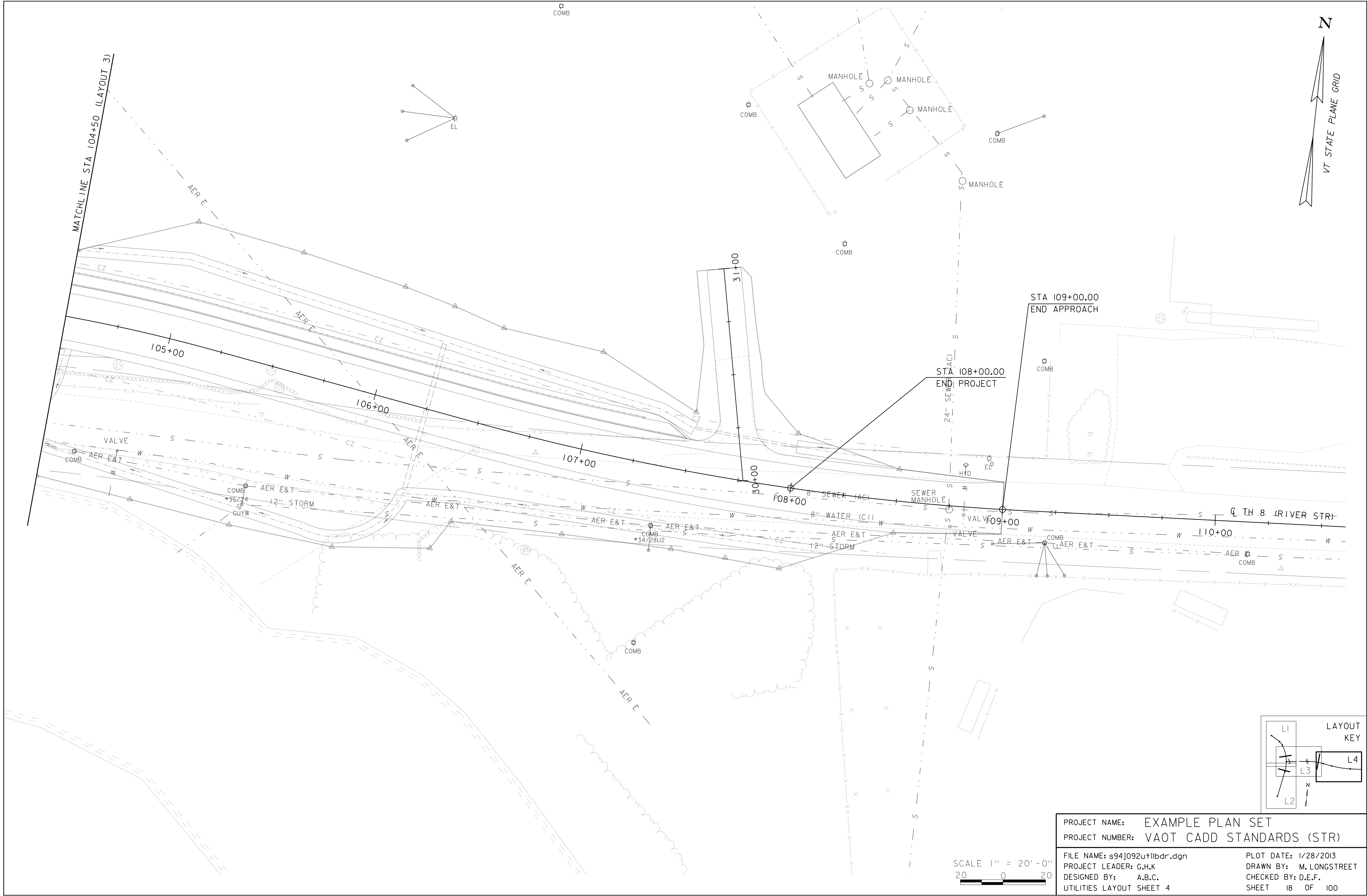
SCALE 1" = 20' - 0"
20 0 20

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092utilbdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
UTILITIES LAYOUT SHEET 2	SHEET 16 OF 100

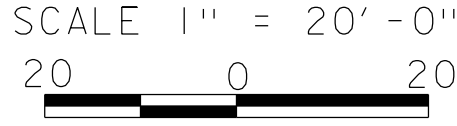


PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092utilbdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
UTILITIES LAYOUT SHEET 3	SHEET 17 OF 100





PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092utilbdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
UTILITIES LAYOUT SHEET 4	SHEET 18 OF 100



SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.O.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

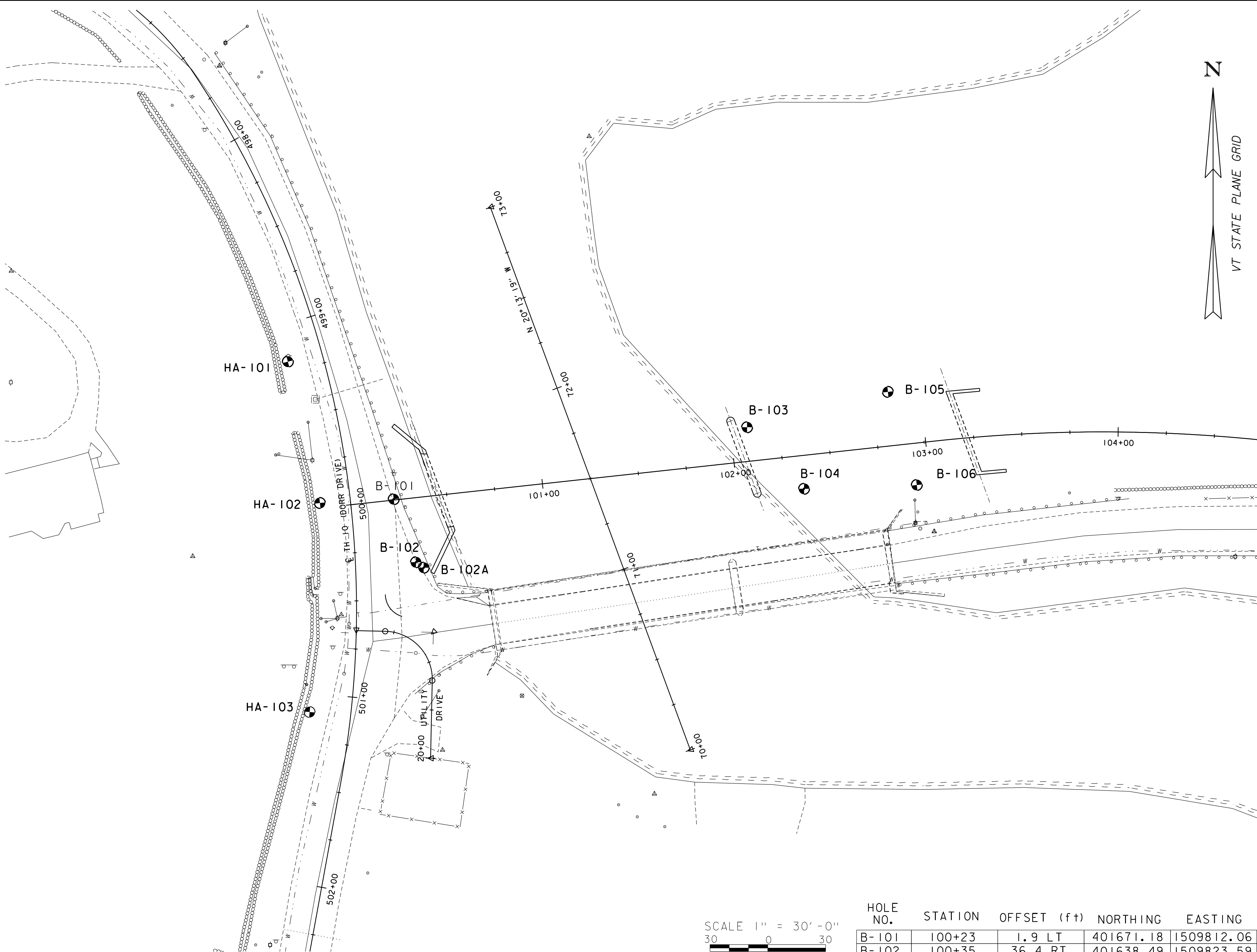
CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊙	Standard Penetration Boring
⊕	Auger Boring
⊖	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
ROD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR			
blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gr'y	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



GENERAL NOTES

- The subsurface explorations shown herein were made between 01/30/2012 and 02/24/2012 by CHA.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

MUCK - Soft organic soil (containing > 10% organic material).

MOISTURE CONTENT - Weight of water divided by dry weight of soil.

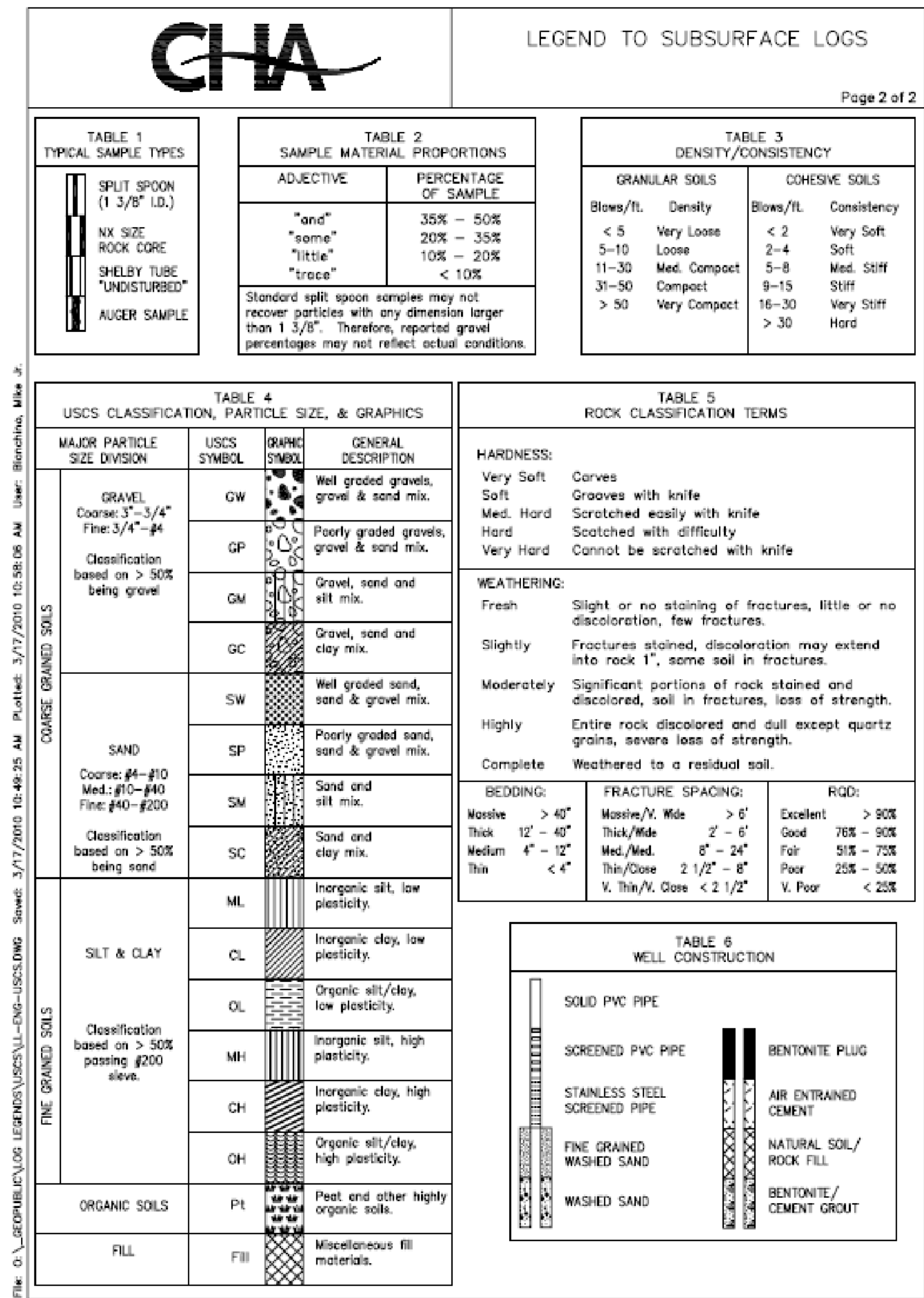
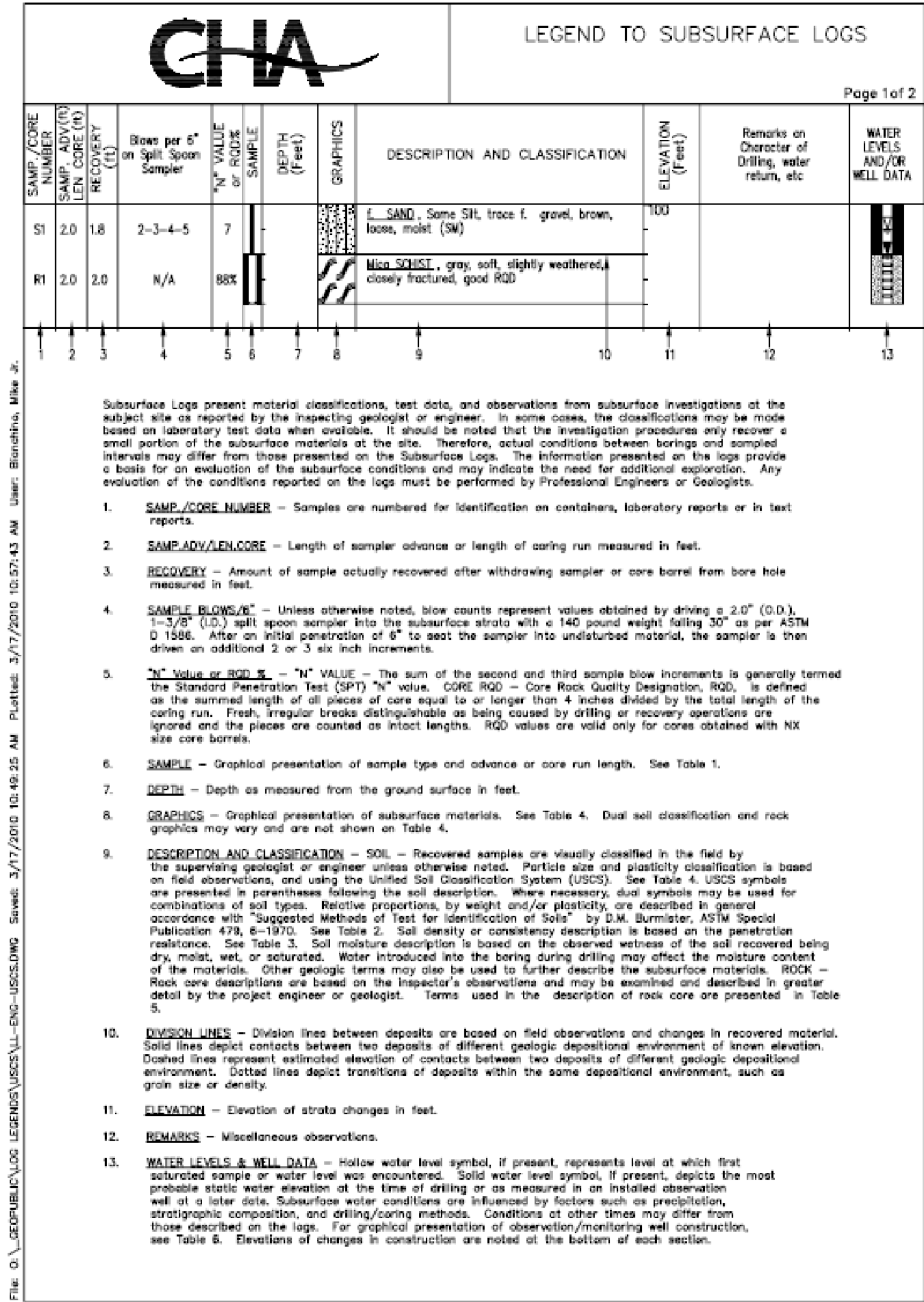
FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

STRIKE - Angle from magnetic north to line of intersection of bed with a horizontal plane.

DIP - Inclination of bed with a horizontal plane.

HOLE NO.	STATION	OFFSET (ft)	NORTHING	EASTING
B-101	100+23	1.9 LT	401671.18	1509812.06
B-102	100+35	36.4 RT	401638.49	1509823.59
B-102A	100+32	33.7 RT	401635.66	1509827.60
B-103	102+09	15.1 LT	401708.51	1509995.37
B-104	102+35	17.0 RT	401676.59	1510024.93
B-105	102+85	25.5 LT	401726.87	1510068.42
B-106	102+93	17.2 RT	401678.54	1510083.41
HA-101			401742.53	1509757.14
HA-102			401669.21	1509773.76
HA-103			401560.76	1509768.43

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bor.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
BORING INFORMATION SHEET	SHEET 19 OF 100



0010 COPY 2828 LOGS CAPJ VERMONT ACT DOT 330V120010 COPY 23828 LOGS GP J VERMONT AOT.GOT 3/30/120010 COPY 29828 LOGS GP J VERMONT ACT GDT 330V12

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bor.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
BORING LOG SHEET 3	SHEET 22 OF 100

	STATE OF VERMONT MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG Rutland Bridge Replacement 23828.1000.32000		Boring No.: B-103 Page No.: 1 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGreg														
	Boring Crew: M. Blakely, D. Schelvoogl Date Started: 2/01/12 Date Finished: 2/03/11 VTSPG NAD83: N 401708.51 ft E 1509995.37 ft Station: 102+09.00 Offset: 15.1 L Ground Elevation: 525.1 ft		Casing Sampler Type: WB SS I.D.: 3 in 1.5 in Hammer Wt: 140 lb. 140 lb. Hammer Fall: 30 in 30 in Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C_g = 1		Groundwater Observations <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>02/01/12</td> <td>5.1</td> <td>Estimated</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	Depth (ft)	Notes	02/01/12	5.1	Estimated						
	Date	Depth (ft)	Notes															
02/01/12	5.1	Estimated																
Depth (ft) Strata (1) CLASSIFICATION OF MATERIALS (Description) Blows/ft (N Value) Moisture Content % Gravel % Sand % Fines % LL % PI %																		
5	(SP)	(SP), f.m.c. SAND , trace silt, loose, brown, moist, Rec. = 0.6 ft	3-4-4-4 (8)															
10	(SP)	(SP), f.m.c. SAND , trace silt, loose, brown, wet, Rec. = 0.5 ft	3-3-2-2 (5)															
15	(OL)	(OL), ORGANICS , Some Silt, little f.m.c. sand, loose, brown/black, wet, Rec. = 0.5 ft	4-3-4-4 (7)															
20	(SM)	(SM), f. SAND , And SILT, medium compact, brown, wet, Rec. = 0.9 ft	11-5-6-8 (11)	0.1	61.3	38.6												
25	(SM)	(SM), f.m.c. SAND , Some Silt, loose, brown, wet, Rec. = 1.2 ft	3-4-5-6 (9)															
30	(ML)	(ML), SILT , And f.m.c. SAND, loose, brown, wet, Rec. = 1.4 ft	6-4-5-7 (9)		48.0	52.0												
35	(ML)	(ML), Similar Soil , Rec. = 1.9 ft	WR-4-4-3 (8)															
40	(GM)	(GM), f.c. GRAVEL , Some f.m.c. Sand, little silt, compact, brown, wet, Rec. = 0.5 ft	19-18-25-50 (43)															
45	(GM)	(GM), becomes very compact, Rec. = 0.2 ft	27-41-72															
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _g is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.																		

, BOTTOM OF FOOTING

	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG Rutland Bridge Replacement 23628.1000.32000	Boring No.: B-103 Page No.: 2 of 2 Pin No.: BRF 300Q(16) Checked By: J. MacGregor	
	Boring Crew: M. Blaskely, D. Spielvogel Date Started: 2/01/12 Date Finished: 2/03/11 VTSPG NAD83: N 401708.51 ft E 1509995.37 ft Station: 102+09.00 Offset: 15.1 L Ground Elevation: 525.1 ft	Casing Sampler Type: WB SS I.D.: 3 in 1.5 in Hammer Wt: 140 lb. 140 lb. Hammer Fall: 30 in. 30 in. Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C₂ = 1	Groundwater Observations	
		Date	Depth (ft)	Notes
		02/01/12	5.1	Estimated

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
50	(GM)	<u>Similar Soil</u> , Rec. = 1.1 ft	50/11* (R)						
55	(SM)	(SM), <u>f.m.c. SAND</u> , Some Silt, trace f.c. gravel, very compact, brown, wet, Rec. = 1.0 ft	33-81-31-54 (R)						
60		No Recovery, Rec. = 0.0 ft (GM-TILL)	41-64-50/3* (R)						
65		(GM-TILL), f.c. <u>GRAVEL</u> , Some f.m.c. Sand, little silt, very compact, gray, wet, Rec. = 0.3 ft	100/11* (R)						
70		(ML-TILL) (ML-TILL), <u>Clayey SILT</u> , little f.m.c. sand, little f.c. gravel, very compact, gray, wet, Rec. = 0.8 ft	150/3* (R)						
75		(GM-TILL) (GM-TILL), f.c. <u>GRAVEL</u> , Some f.m.c. Sand, little silt, very compact, gray, wet, Rec. = 0.2 ft	73-50/3* (R)	21.0	10.6	68.4	28	9	
Hole stopped @ 74.5 ft			150/8* (R)						
Remarks: Boulders and cobbles were encountered while driving and washing casing below a depth of 39 feet. Boring was advanced open hole below a depth of 59 feet. The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.									

1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. N Values have not been corrected for hammer energy. C₂ is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

EST. PILE TIP ELEV. =

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bor.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
BORING LOG SHEET 3	SHEET 23 OF 100

		BORING LOG		B-104													
STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		Rutland Bridge Replacement 23828.1000.32000		Page No.: 1 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor													
Boring Crew: <u>M. Blakely, D. Spielvogel</u>		Casing: <u>WB</u> Sampler: <u>SS</u>		Groundwater Observations													
Date Started: <u>2/14/12</u> Date Finished: <u>2/16/12</u>		Type: <u>WB</u> I.D.: <u>3 in</u> <u>1.5 in</u>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> </thead> <tbody> <tr> <td>02/14/12</td> <td>5.8</td> <td>Estimated</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		Date	Depth (ft)	Notes	02/14/12	5.8	Estimated						
Date	Depth (ft)	Notes															
02/14/12	5.8	Estimated															
VTSPG NAD83: <u>N 401676.59 ft</u> <u>E 1510024.93 ft</u>		Hammer Wt: <u>140 lb</u> <u>140 lb</u>															
Station: <u>102+35.00</u> Offset: <u>17.0 R</u>		Hammer Fall: <u>30 in</u> <u>30 in</u>															
Ground Elevation: <u>525.6 ft</u>		Hammer/Rod Type: <u>Manual/NW</u>															
		Rig: <u>CME 550 ATV</u> <u>C₀ = 1</u>															
Depth (ft)	Strata (ft)	CLASSIFICATION OF MATERIALS (Description)	Blow(s) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %										
		(SP)															
5		(SP), <u>f.m.c. SAND</u> , trace silt, loose, brown, wet, Rec. = 0.9 ft	4-4-3-4 (7)														
10		(SP), becomes dark brown, Rec. = 0.7 ft	2-2-3-3 (5)														
15		(SP), <u>f.m.c. SAND</u> , Some Wood/Organics, loose, brown, wet, Rec. = 0.8 ft	2-3-2-3 (5)														
20		(SP), <u>f.m.c. SAND</u> , little f.c. gravel, trace silt, loose, brown, wet, Rec. = 0.7 ft	5-4-4-5 (8)														
25		(SM)															
25		(SM), <u>f. SAND</u> , Some Silt, medium compact, brown, wet, Rec. = 0.5 ft	3-7-5-5 (12)														
30		(SP)															
30		(SP), <u>f.m.c. SAND</u> , trace silt, medium compact, brown, wet, Rec. = 1.0 ft	8-8-11-9 (19)		1.0	91.5	7.5										
35		(SM)															
35		(SM), <u>f. SAND</u> , And SILT, loose, brown, wet, Rec. = 1.4 ft	5-4-5-4 (9)		0.8	59.9	39.3										
40		(SM), <u>Similar Soil</u> , Rec. = 1.8 ft	3-3-7-15 (10)														
45		(SM), <u>f.m.c. SAND</u> , Some Silt, trace f.c. gravel, medium compact, brown, wet, Rec. = 0.2 ft	14-8-9-13														
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C ₀ is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.																	

	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG Rutland Bridge Replacement 23828.1000.32000	Boring No.: B-104 Page No.: 2 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor	
	Boring Crew: <u>M. Blakely, D. Spatzvogel</u> Date Started: <u>2/14/12</u> Date Finished: <u>2/16/12</u> VTSPG NAD83: <u>N 401676.59 ft</u> <u>E 1510024.93 ft</u> Station: <u>102+35.00</u> Offset: <u>17.0 R</u> Ground Elevation: <u>525.8 ft</u>	Casing Sampler Type: <u>WB SS</u> I.D.: <u>3 in</u> <u>1.5 in</u> Hammer Wt: <u>140 lb.</u> <u>140 lb.</u> Hammer Fall: <u>30 in.</u> <u>30 in.</u> Hammer/Rod Type: <u>Manual/NW</u> Rig: <u>CME 550 ATV</u> <u>C_u = 1</u>	Groundwater Observations	
		Date	Depth (ft)	Notes
		02/14/12	5.8	Estimated

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blow(s) (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50	(SM)	(SM), <u>f.m.c. SAND</u> , Some f.c. Gravel, little silt, very compact, brown, wet, Rec. = 0.5 ft	80-50/3* (R)				
55	(GP)	(GP), <u>f.c. GRAVEL</u> , Some f.m.c. Sand, trace silt, very compact, brown, wet, Rec. = 0.5 ft	24-38-50/3* (R)				
60	(SM)	(SM), <u>f.m.c. SAND</u> , little silt, trace f. gravel, very compact, brown, wet, Rec. = 1.7 ft	22-43-50/3* (R)				
65	(SM-TILL)	(SM-TILL), <u>f.m.c. SAND</u> , Some f.c. Gravel, little silt, very compact, gray, wet, Rec. = 0.1 ft	100/4* (R)				
70	(SM-TILL)	(SM-TILL), <u>f.m.c. SAND</u> , Some Silt, Some f.c. Gravel, very compact, gray, wet, Rec. = 0.5 ft	150/6* (R)	49.0	24.3	26.7	
75	(SM-TILL)	(SM-TILL), <u>Similar Soil</u> , Rec. = 0.2 ft	100/4* (R)				
80	(SM-TILL)	(SM-TILL), <u>Similar Soil</u> , Rec. = 0.3 ft Hole stopped @ 79.3 ft	200/3* (R)				
Remarks: Boulders and cobbles were encountered while driving and washing casing below a depth of 49 feet. Boring was advanced open hole below a depth of 69 feet. The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.							

1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
 2. N Values have not been corrected for hammer energy. C_u is the hammer energy correction factor.
 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

1. BOTTOM OF FOOTING

EST. PILE TIP ELEV.

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bor.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
BORING LOG SHEET 3	SHEET 24 OF 100

BOTTOM OF FOOTING

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG Rutland Bridge Replacement 23828.1000.32000		Boring No.: B-105 Page No.: 1 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor		
Boring Crew: M. Blakely, D. Spelvogel Date Started: 2/03/12 Date Finished: 2/14/12 VTSPG NAD83: N 401726.87 ft E 1510068.42 ft Station: 102+85.00 Offset: 25.5 L Ground Elevation: 528.6 ft				Type: WB SS I.D.: 3 in 1.5 in Hammer Wt: 140 lb 140 lb Hammer Fall: 30 in 30 in Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C _u = 1		Casing Sampler Date Depth (ft) Notes 02/03/12 8.6 Estimated		
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		(SP) (SP), <u>f.m.c. SAND</u> , trace silt, trace f. gravel, loose, brown, moist, Rec. = 0.5 ft		4-3-4-7 (7)				
10		(SM) (SM), <u>f.m.c. SAND</u> , little silt, trace f. gravel, loose, brown, wet, Rec. = 0.8 ft		3-3-3-3 (6)				
15		(GM) (GM), <u>f.c. GRAVEL</u> , Some Silt, Some f.m.c. Sand, medium compact, brown, wet, Rec. = 0.3 ft		3-7-17-6 (24)				
20		(SM) (SM), <u>f.m.c. SAND</u> , Some Silt, little f.c. gravel, loose, brown, wet, Rec. = 0.0 ft		3-4-5-5 (9)				
25		(SM), <u>f.m.c. SAND</u> , little silt, trace f.c. gravel, medium compact, brown, wet, Rec. = 1.0 ft		8-12-17-11 (29)				
30		(SM), becomes loose, wet, Rec. = 1.1 ft		8-10-9-10 (19)				
35		(SM), <u>f. SAND</u> , Some Silt, medium compact, brown, wet, Rec. = 0.5 ft		9-6-7-5 (11)				
40		(SM), <u>f.m.c. SAND</u> , Some Silt, trace f. gravel, medium compact, brown, wet, Rec. = 1.8 ft		7-9-9-14 (18)		1.1	76.5	22.4
45		(SM), <u>f.m.c. SAND</u> , little silt, trace f.c. gravel, compact, brown, wet, Rec. = 0.5 ft		14-18-15-9				
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C_u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.								

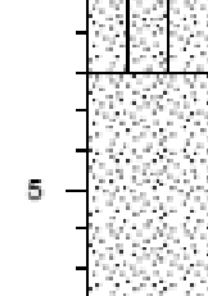
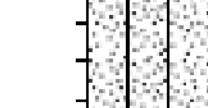
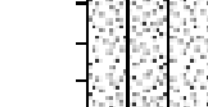
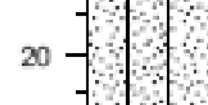
2014 COPY 23828 LOGS.GPJ VERMONT AOT.GDT 3/14/12

EST. PILE TIP ELEV.

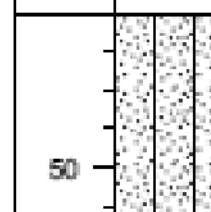
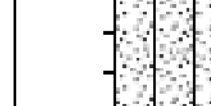
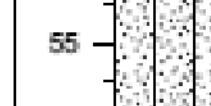
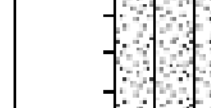
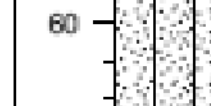
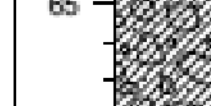
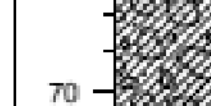
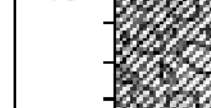
		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG Rutland Bridge Replacement 23828.1000.32000		Boring No.: B-105 Page No.: 2 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor		
Boring Crew: M. Blakely, D. Spelvogel Date Started: 2/03/12 Date Finished: 2/14/12 VTSPG NAD83: N 401726.87 ft E 1510068.42 ft Station: 102+85.00 Offset: 25.5 L Ground Elevation: 528.6 ft				Type: WB SS I.D.: 3 in 1.5 in Hammer Wt: 140 lb 140 lb Hammer Fall: 30 in 30 in Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C _u = 1		Casing Sampler Date Depth (ft) Notes 02/03/12 8.6 Estimated		
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50		(SM), <u>f.m.c. SAND</u> , little silt, little f.c. gravel, very compact, brown, wet, Rec. = 0.2 ft		69-50/3* (R)				
55		(SP) (SP), <u>f.m.c. SAND</u> , little f. gravel, trace silt, very compact, brown, wet, Rec. = 1.0 ft		10-40-40-43 (R)				
60		(SP), <u>f.m.c. SAND</u> , Some f.c. Gravel, trace silt, very compact, brown, wet, Rec. = 1.5 ft		80-44-50 (R)				
65		(SM-TILL) (SM-TILL), <u>f.m.c. SAND</u> , little silt, trace f.c. gravel, very compact, gray, wet, Rec. = 0.2 ft		150/3* (R)				
70		(SM-TILL), <u>Similar Soil</u> , Rec. = 0.3 ft		100/5* (R)				
75		(SM-TILL), <u>Similar Soil</u> , Rec. = 0.05 ft Hole stopped @ 72.6 ft		130/2* (R)				
Remarks: A piece of c. gravel was lodged in the shoe of sample S-4 when first driven. Soil description based upon sample recovery of second spoon driven at the same depth. The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C_u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.								

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BOTTOM OF FOOTING

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG Rutland Bridge Replacement 23828.1000.32000		Boring No.: B-106 Page No.: 1 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor				
Boring Crew: M. Blakely, D. Spielvogel Date Started: 1/30/12 Date Finished: 2/01/12 VTSPG NAD83: N 401678.54 ft E 1510083.41 ft Station: 102+93.00 Offset: 17.2 R Ground Elevation: 526.5 ft				Type: WB I.D.: 3 in Hammer Wt: 140 lb. Hammer Fall: 30 in. Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C _u = 1		Casing Sampler WB SS 1.5 in 140 lb. 30 in. Manual/NW C _u = 1		Groundwater Observations Date Depth Notes 01/30/12 6.5 Estimated		
Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQD %)	Blow Count (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		(SM), f.m.c. SAND , Some Silt, trace silt, trace organics, loose, brown, moist, Rec. = 1.1 ft				8-4-2-4 (6)				
		(SP), f.m.c. SAND , Some f.c. Gravel, little silt, medium compact, brown, moist, Rec. = 0.9 ft				4-8-8-7 (16)				
		(SP), Similar Soil , Rec. = 0.3 ft				5-10-10-9 (20)				
		(SP), becomes wet, Rec. = 0.5 ft				8-8-4-12 (12)				
10		(GM), f.c. GRAVEL , Some f.m.c. Sand, little silt, trace organics, medium compact, brown, wet, Rec. = 0.1 ft				10-16-9-5 (25)				
		(SM), f.m.c. SAND , Some Silt, trace f. gravel, trace organics, very loose, brown, wet, Rec. = 1.3 ft				2-2-2-5 (4)				
15		(SM), becomes very loose				2-1-3-1 (4)				
		(SM), Similar Soil , Rec. = 1.3 ft				7-4-4-4 (8)				
20		No Recovery, Rec. = 0.0 ft				7-4-4-4 (8)				
25		(SM), f.m.c. SAND , Some f.c. Gravel, little silt, medium compact, light brown, wet, Rec. = 0.4 ft				7-15-7-7 (24)				
		(SM), f.m.c. SAND , little silt, medium compact, light brown, wet, Rec. = 0.4 ft				19-8-8-12 (16)				
35		(ML)				WH-5-4-5 (9)				
		(ML), SILT , Some f. Sand, loose, light brown, wet, Rec. = 1.6 ft				WR-11-14-15 (25)				
40		(ML), SILT , Some f.m.c. Sand, little f.c. gravel, medium compact, brown, wet, Rec. = 0.5 ft				24-24-7-12				
45		(SM)				24-24-7-12				
		(SM), f.m.c. SAND , Some f.c. Gravel, little silt, compact, brown, wet, Rec. = 0.6 ft								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										

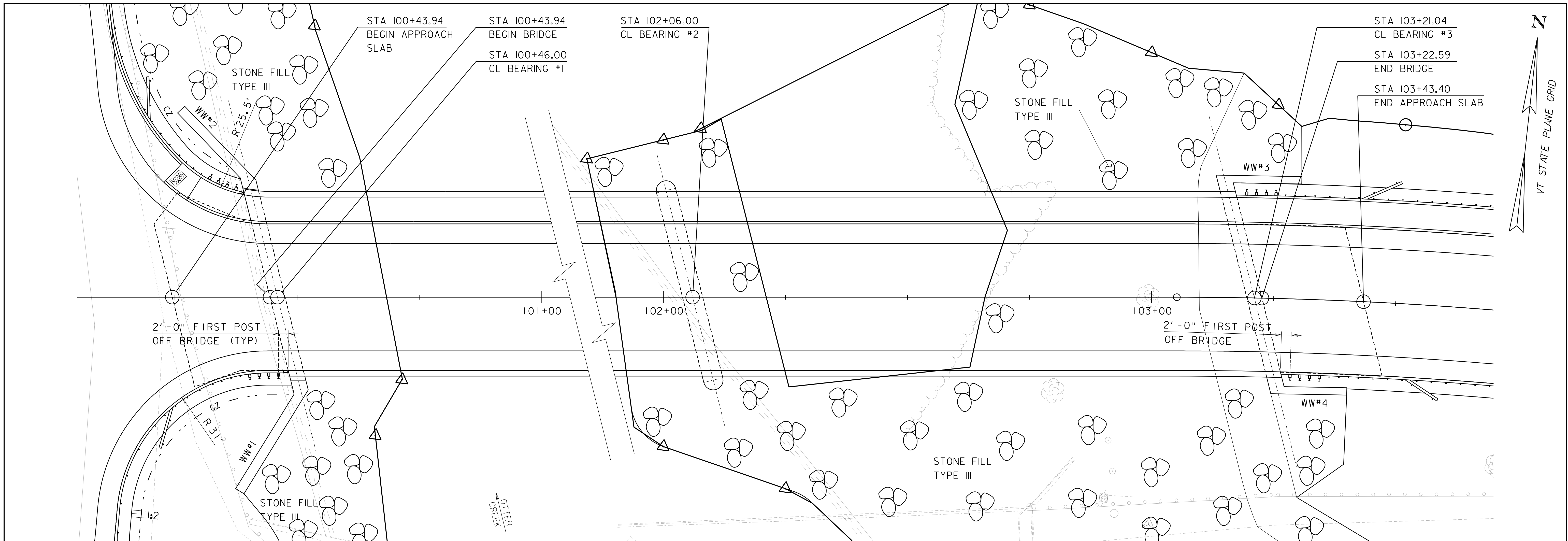
EST. PILE TIP ELEV.

		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG Rutland Bridge Replacement 23828.1000.32000		Boring No.: B-106 Page No.: 2 of 2 Pin No.: BRF 3000(16) Checked By: J. MacGregor				
Boring Crew: M. Blakely, D. Spielvogel Date Started: 1/30/12 Date Finished: 2/01/12 VTSPG NAD83: N 401678.54 ft E 1510083.41 ft Station: 102+93.00 Offset: 17.2 R Ground Elevation: 526.5 ft				Type: WB I.D.: 3 in Hammer Wt: 140 lb. Hammer Fall: 30 in. Hammer/Rod Type: Manual/NW Rig: CME 550 ATV C _u = 1		Casing Sampler WB SS 1.5 in 140 lb. 30 in. Manual/NW C _u = 1		Groundwater Observations Date Depth Notes 01/30/12 6.5 Estimated		
Depth (ft)	Strata (f)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (RQD %)	Blow Count (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
50		(SM), Cobbles/Boulders		R-1	60 (0)	(31)				
		(SM), Cobbles/Boulders		R-2	40 (0)					
55		(SM), f.m.c. SAND , little silt, little f.c. gravel, very compact, brown, wet, Rec. = 0.3 ft				100/3" (R)				
		(SM), f. SAND , Some Silt, very compact, brown, wet, Rec. = 0.4 ft				37-50/4" (R)				
60		(SM-TILL)				100/3" (R)				
		(SM-TILL), f. SAND , Some Silt, little f.c. gravel, very compact, gray, wet, Rec. = 0.3 ft				100/4" (R)				
65		(SM-TILL), f.m.c. SAND , Some Silt, Some f.c. Gravel, very compact, gray, wet, Rec. = 0.1 ft				83-50/1" (R)				
		(SM-TILL), Similar Soil , Rec. = 0.5 ft				74-50/1" (R)				
70		(SM-TILL), Similar Soil , Rec. = 0.5 ft								
		Hole stopped @ 77.6 ft								
75		Remarks: Running sand occurred prior to sampling S-8.								
		The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger. Laboratory data provided follows AASHTO classification guidelines that gravel is defined as material retained on a #10 sieve or larger.								
80										
85										
90										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.										

	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG		Boring No.: HA-101					
		Rutland Bridge Replacement 23828.1000.32000		Page No.: 1 of 1 Pin No.: BRF 3000(16) Checked By: J. MacGregor					
Boring Crew: M. Blakely, D. Spielvogel		Casing Type: HA I.D.: 3 in		Sampler					
Date Started: 2/22/12 Date Finished: 2/22/12		Hammer Wt: N.A. N.A.		Groundwater Observations					
VTSPG NAD83: N 401742.53 ft E 1509757.14 ft		Hammer Fall: N.A. N.A.		Date Depth (ft) Notes					
Station: Offset:		Hammer/Rod Type:		02/22/12 Not Encountered					
Ground Elevation: 532.5 ft		Rig: Hand Auger C _u =							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	0-3	TOPSOIL (SM), f.m.c. SAND , Some Silt, Some f.c. Gravel, brown, moist							
5		Hole stopped @ 4.0 ft							
10		Remarks: Hand Auger HA-101 was attempted two times with 1 foot offset between the two locations. Refusal on cobbles/ c. gravel were encountered at depths of 3.5 feet and at 4.0 feet. Boring log is based upon the deeper attempt.							
15		The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger.							
20									
25									
30									
35									
40									
45									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.									

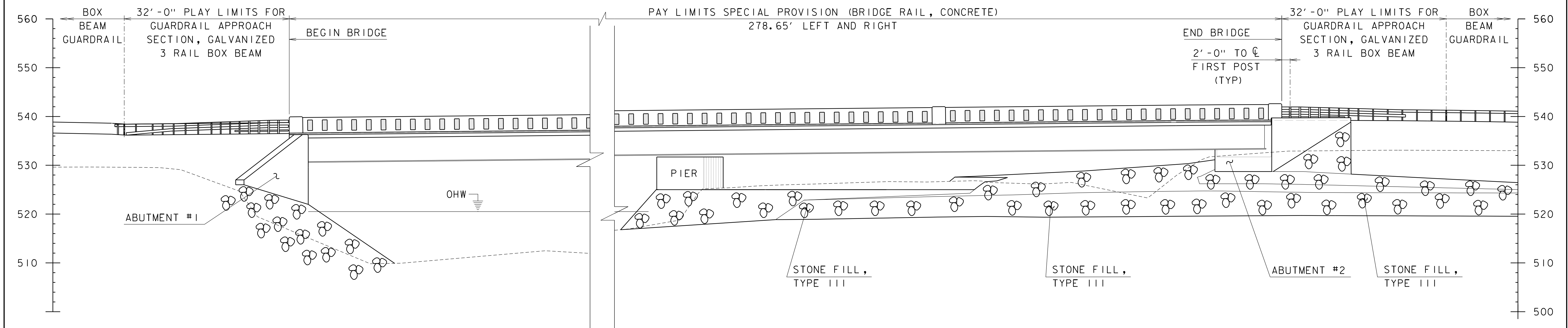
	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG		Boring No.: HA-102					
		Rutland Bridge Replacement 23828.1000.32000		Page No.: 1 of 1 Pin No.: BRF 3000(16) Checked By: J. MacGregor					
Boring Crew: M. Blakely, D. Spielvogel		Casing Type: HA I.D.: 3 in		Sampler					
Date Started: 2/22/12 Date Finished: 2/22/12		Hammer Wt: N.A. N.A.		Groundwater Observations					
VTSPG NAD83: N 401689.21 ft E 1509773.76 ft		Hammer Fall: N.A. N.A.		Date Depth (ft) Notes					
Station: Offset:		Hammer/Rod Type:		02/22/12 Not Encountered					
Ground Elevation: 531.4 ft		Rig: Hand Auger C _u =							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	0-3	TOPSOIL (SM), f.m.c. SAND , Some Silt, Some f.c. Gravel, brown, moist							
5		Hole stopped @ 5.0 ft							
10		Remarks: Hand Auger HA-102 was attempted two times with 1 foot offset between the two locations. Refusal on cobbles/ c. gravel were encountered at depths of 3.5 feet and at 5.0 feet. Boring log is based upon the deeper attempt.							
15		The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger.							
20									
25									
30									
35									
40									
45									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.									

	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	BORING LOG		Boring No.: HA-103					
		Rutland Bridge Replacement 23828.1000.32000		Page No.: 1 of 1 Pin No.: BRF 3000(16) Checked By: J. MacGregor					
Boring Crew: M. Blakely, D. Spielvogel		Casing Type: HA I.D.: 3 in		Sampler					
Date Started: 2/22/12 Date Finished: 2/22/12		Hammer Wt: N.A. N.A.		Groundwater Observations					
VTSPG NAD83: N 401560.76 ft E 1509768.43 ft		Hammer Fall: N.A. N.A.		Date Depth (ft) Notes					
Station: Offset:		Hammer/Rod Type:		02/22/12 Not Encountered					
Ground Elevation: 533.1 ft		Rig: Hand Auger C _u =							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)			Blows/ft (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0	0-3	TOPSOIL (SM), f.m.c. SAND , Some Silt, Some f.c. Gravel, brown, moist							
5		Hole stopped @ 4.5 ft							
10		Remarks: Hand Auger HA-103 was attempted two times with 1 foot offset between the two locations. Refusal on cobbles/ c. gravel were encountered at depths of 3.0 feet and at 4.5 feet. Boring log is based upon the deeper attempt.							
15		The description of the classification of the materials is based on USCS criteria that gravel is defined as material retained on a #4 sieve or larger.							
20									
25									
30									
35									
40									
45									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _u is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.									



PLAN

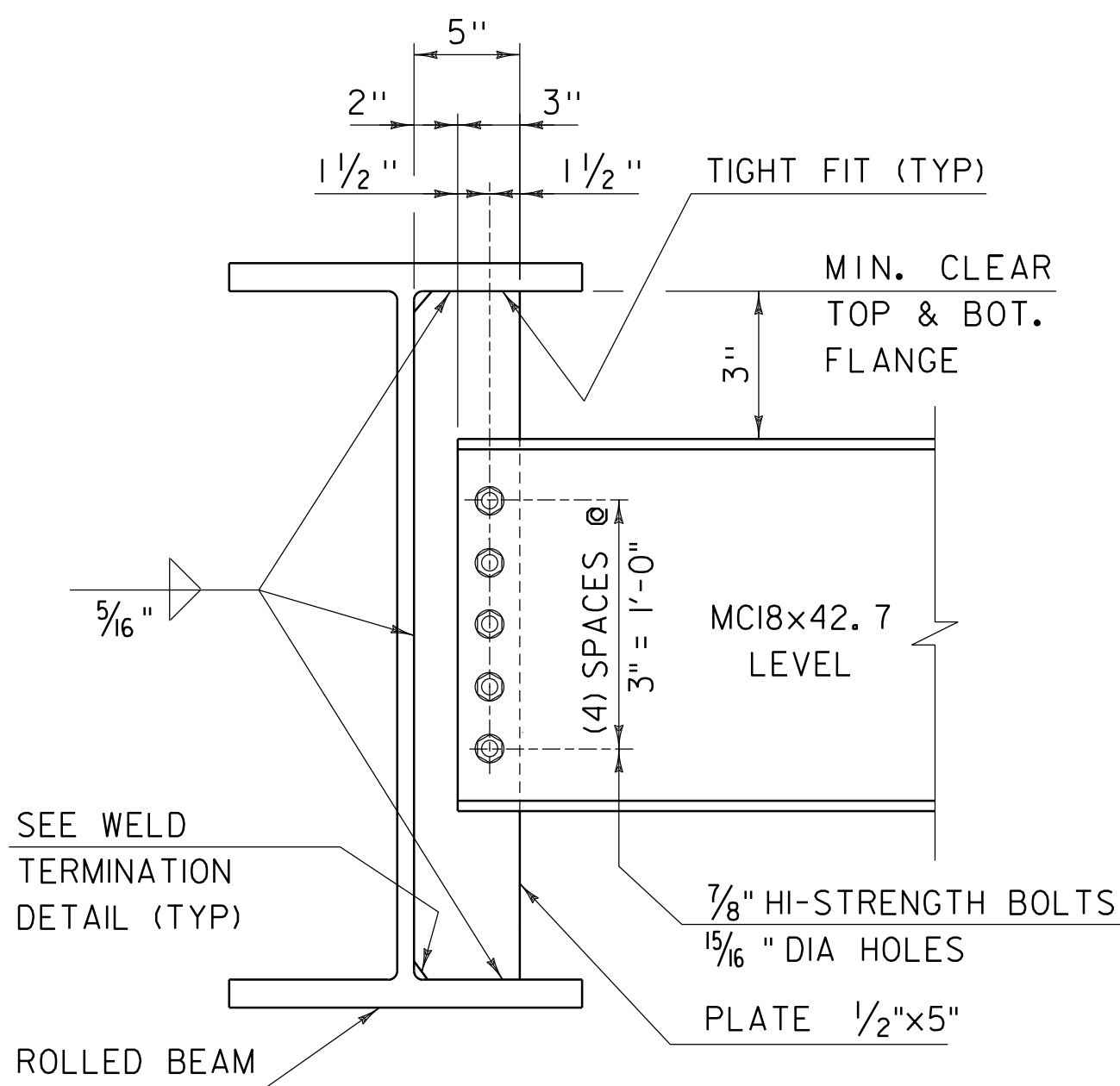
SCALE 1" = 10'



ELEVATION

SCALE 1" = 10'

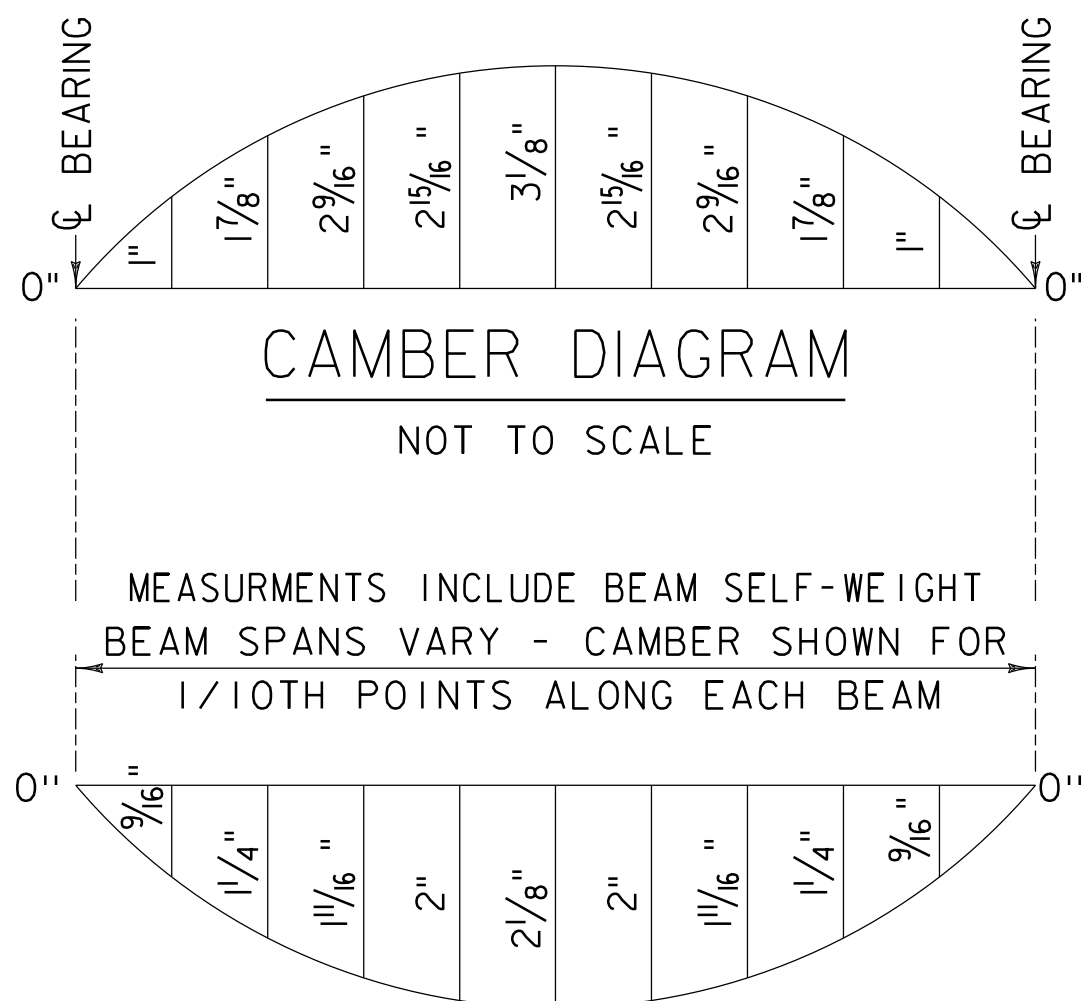
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092pe.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
PLAN & ELEVATION	
PLOT DATE:	1/28/2013
DRAWN BY:	M.LONGSTREET
CHECKED BY:	D.E.F.
SHEET	28 OF 100



NOTE:
HI-STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO DESIGNATION M164.

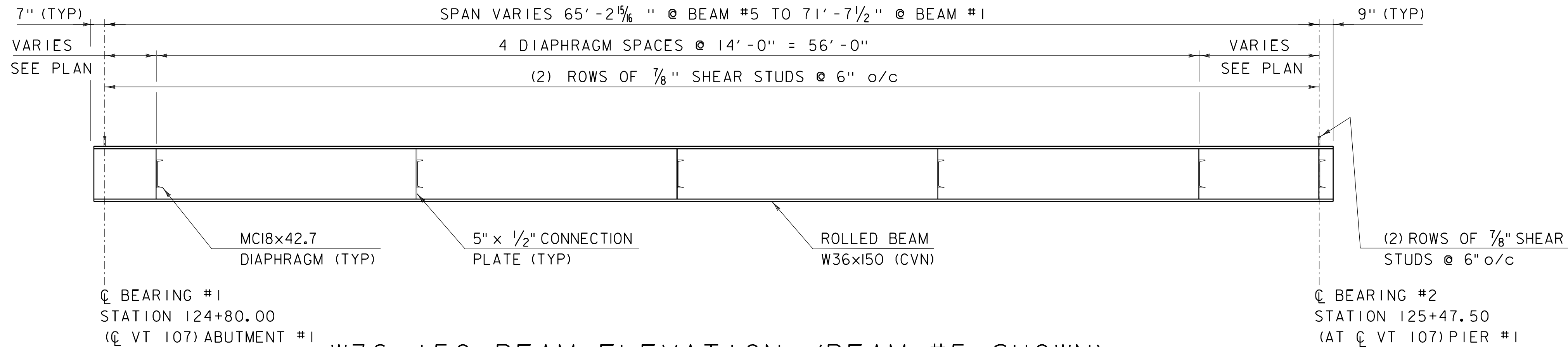
INTERMEDIATE DIAPHRAGMS FOR W36 BEAMS

NOT TO SCALE



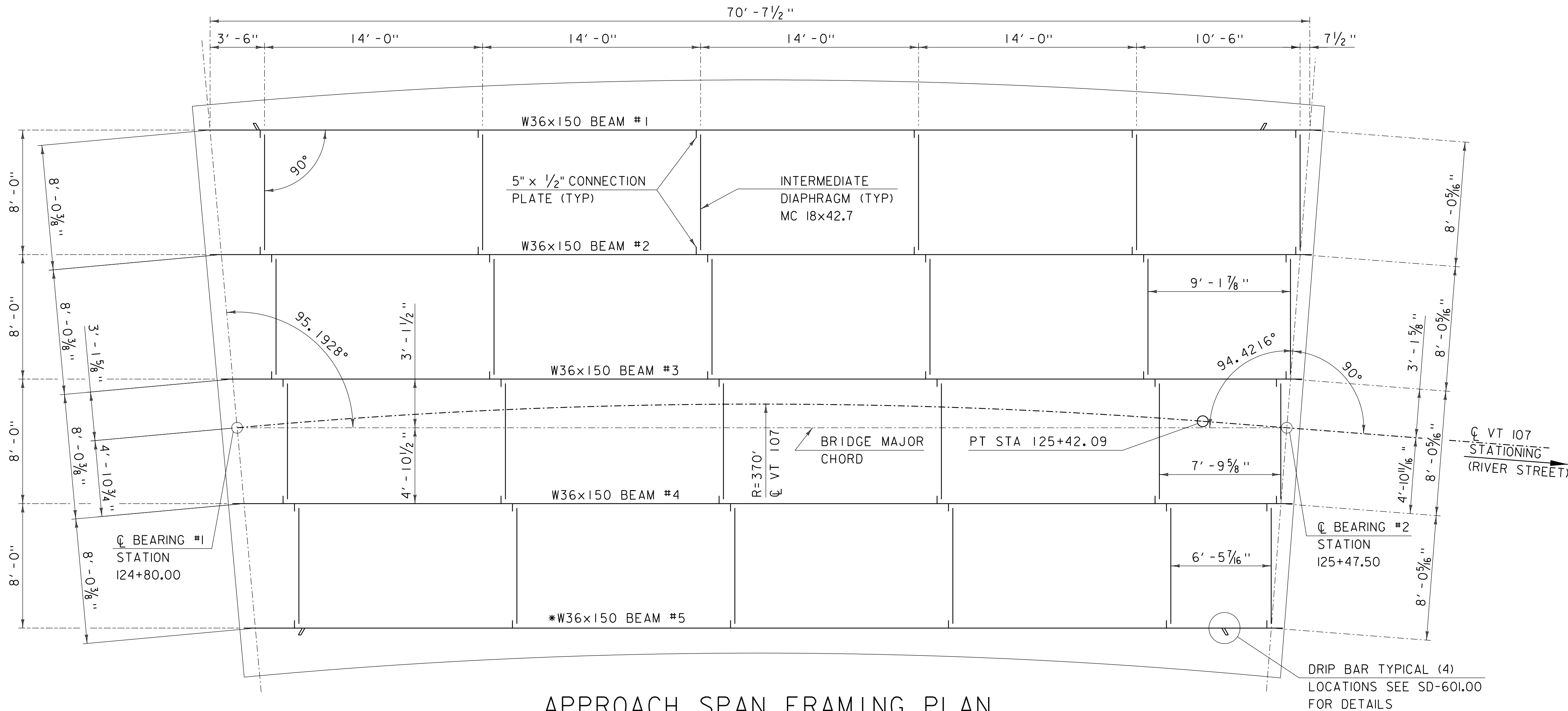
DEAD LOAD DEFLECTION DIAGRAM

NOT TO SCALE



W36x150 BEAM ELEVATION (BEAM #5 SHOWN)

SCALE 1/4" = 1'-0" (HORIZONTAL & VERTICAL)



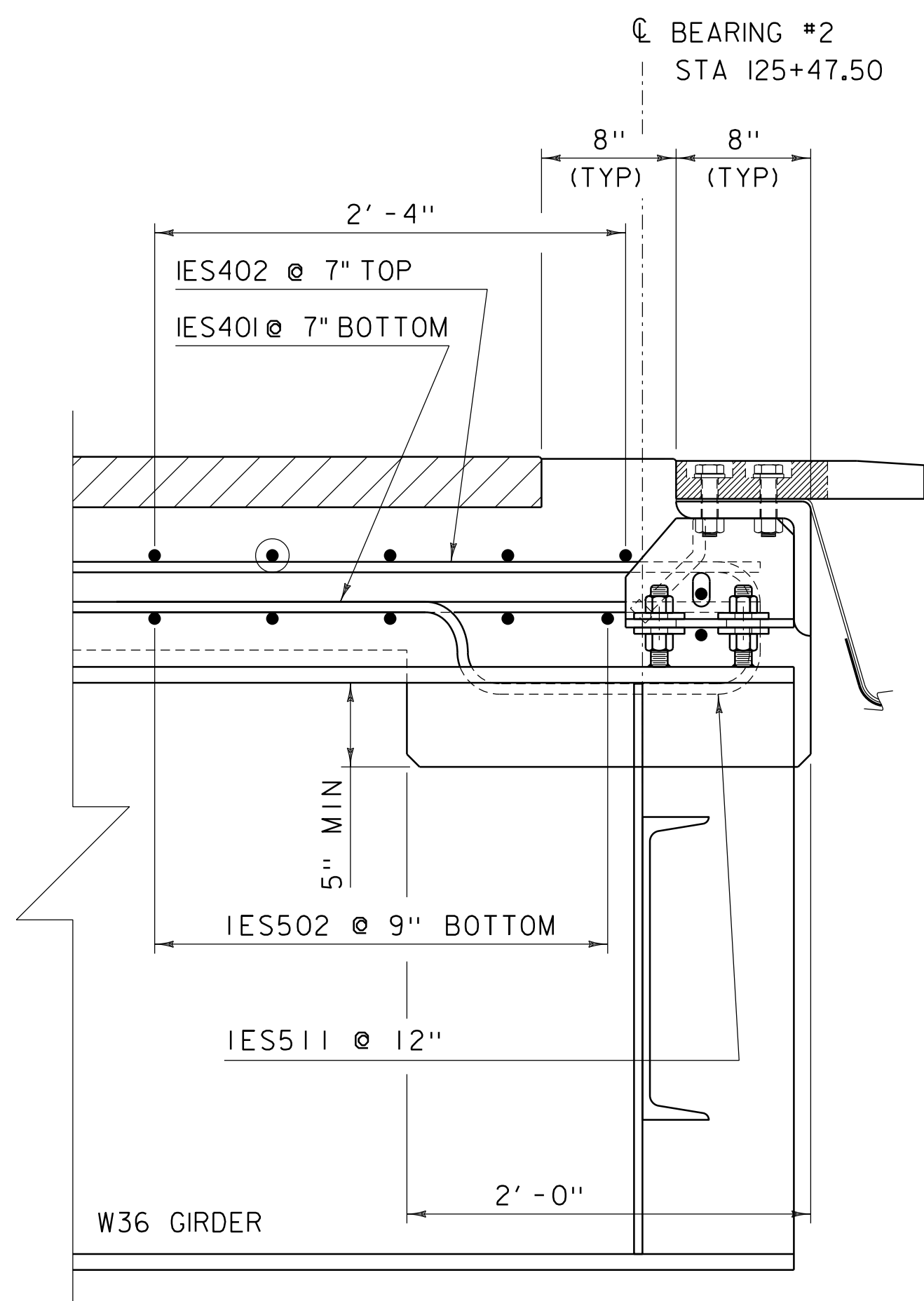
APPROACH SPAN FRAMING PLAN

SCALE 1/4" = 1'-0"

*CVN - SHALL MEET CHARPY V-NOTCH REQUIREMENTS FOR MAIN MEMBERS AS INDICATED IN SECTION 714 OF THE STANDARD SPECIFICATIONS

** HOLES FOR TRANSVERSE ABUTMENT REINFORCING STEEL NOT SHOWN. SEE "ABUTMENT #1 ELEVATION & TYPICAL"

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161sup.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
APPROACH SPAN FRAMING PLAN	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	30 OF 100

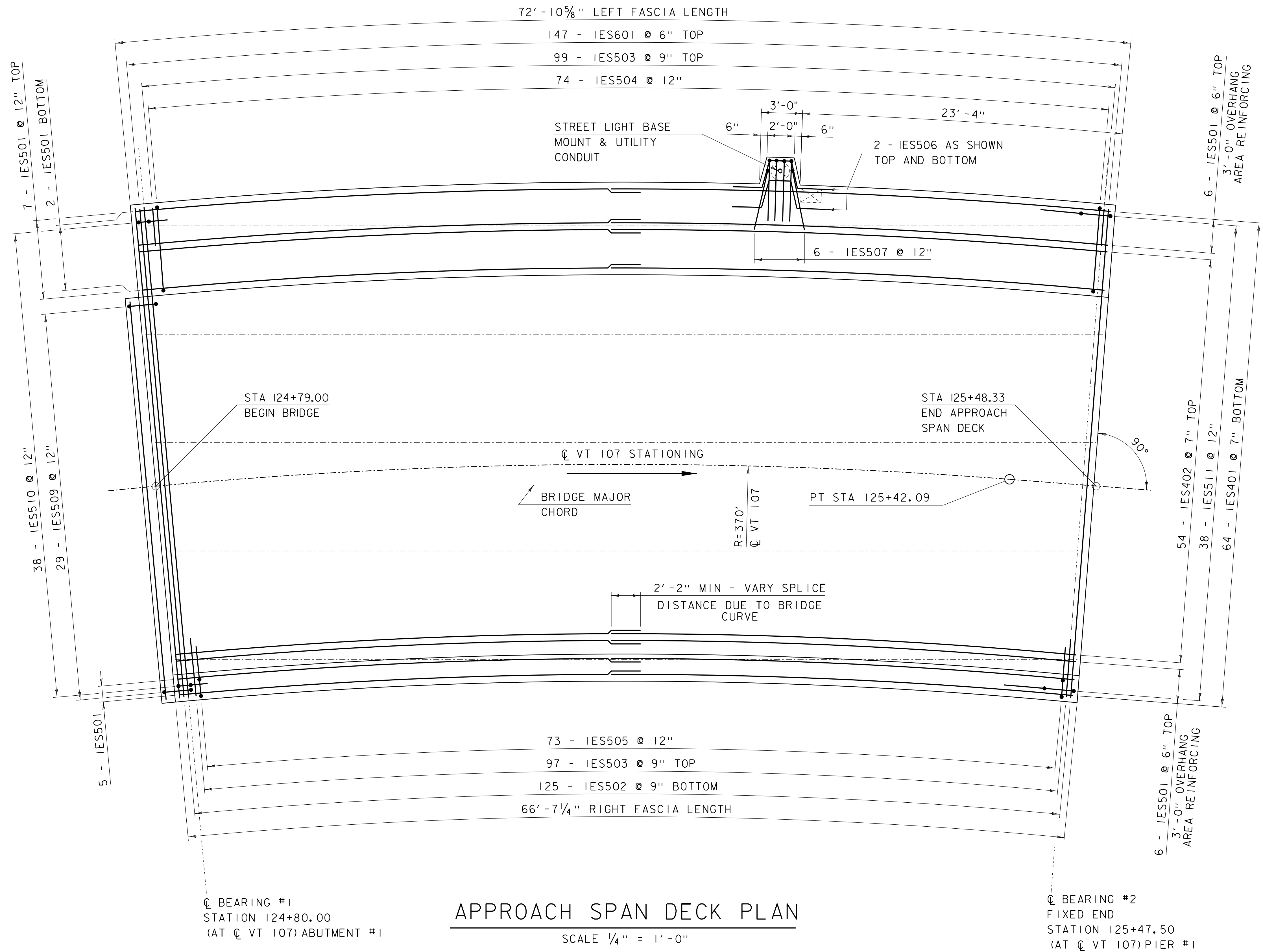


END APPROACH SPAN DECK SECTION

SCALE 1 1/2" = 1'-0"

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.



APPROACH SPAN DECK PLAN

SCALE 1/4" = 1'-0"

AS BUILT "REBAR" DETAILS

TYPE : _____

GRADE : _____

STRUCTURAL DESIGN OF THE
BRIDGE SUPERSTRUCTURE IS
BASED ON GRADE 60, TYPE S,
REINFORCING STEEL BARS.

PROJECT NAME: EXAMPLE PLAN SET

PROJECT NUMBER: VAOT CADD STANDARDS (STR)

FILE NAME: s78f16lsup.dgn

PROJECT LEADER: G.H.K

DESIGNED BY: A.B.C.

APPROACH SPAN DECK PLAN

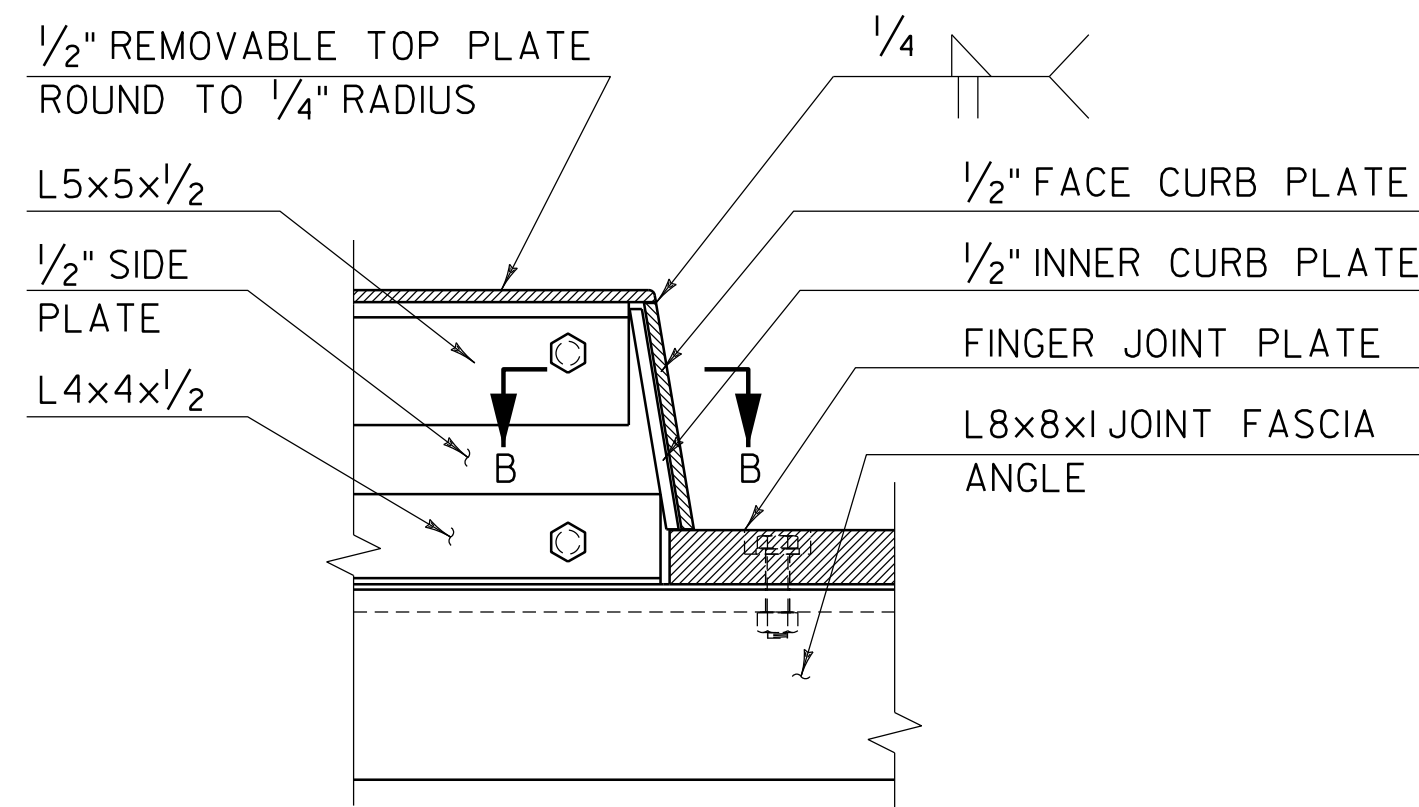
PLOT DATE: 1/28/2013

DRAWN BY: M. LONGSTREET

CHECKED BY: D.E.F.

SHEET 31 OF 100

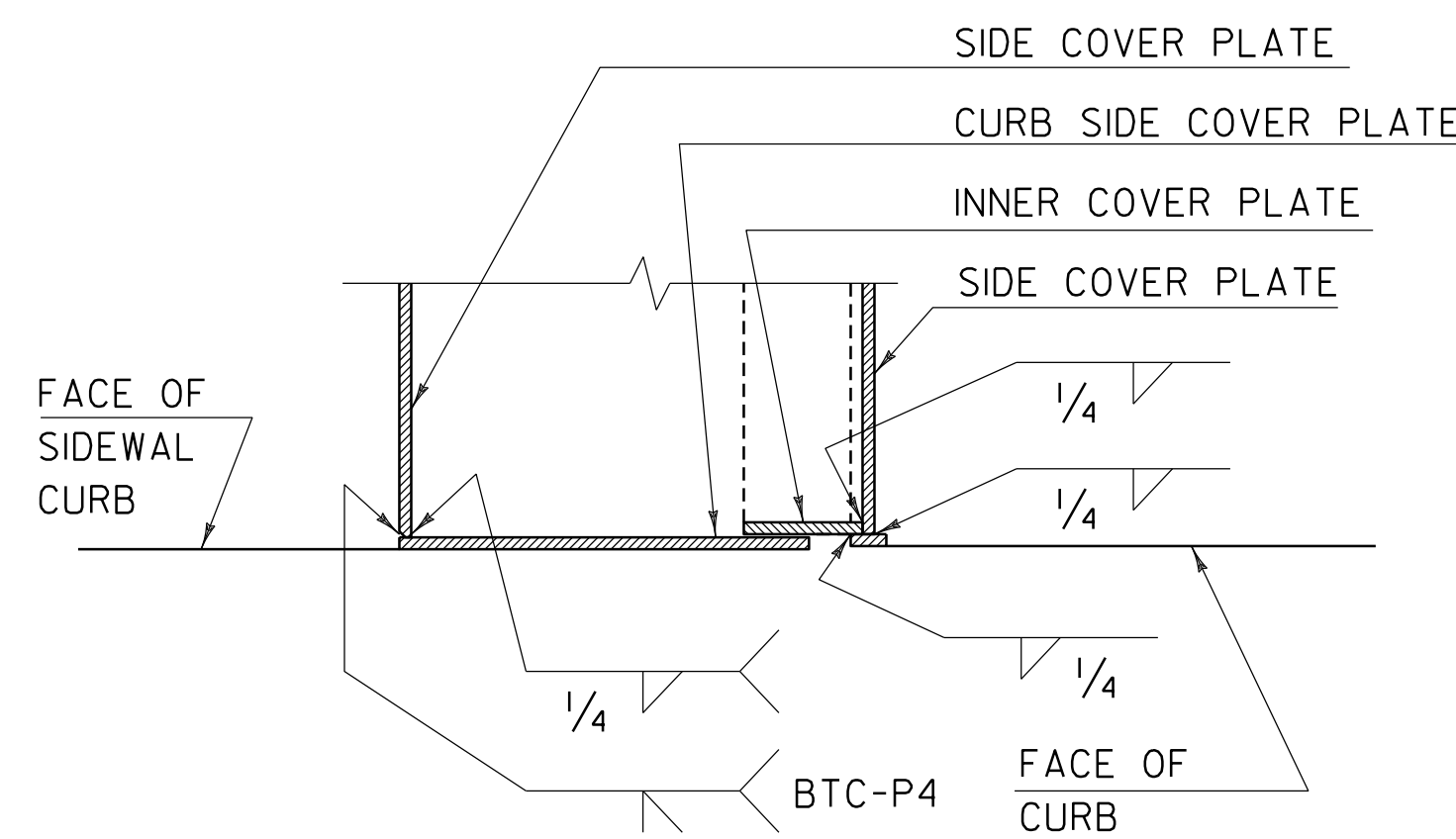
PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f16lsup.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREE
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
MAIN SPAN DECK PLAN	SHEET 32 OF 100



SECTION A-A

SCALE 1 1/2" = 1'-0"

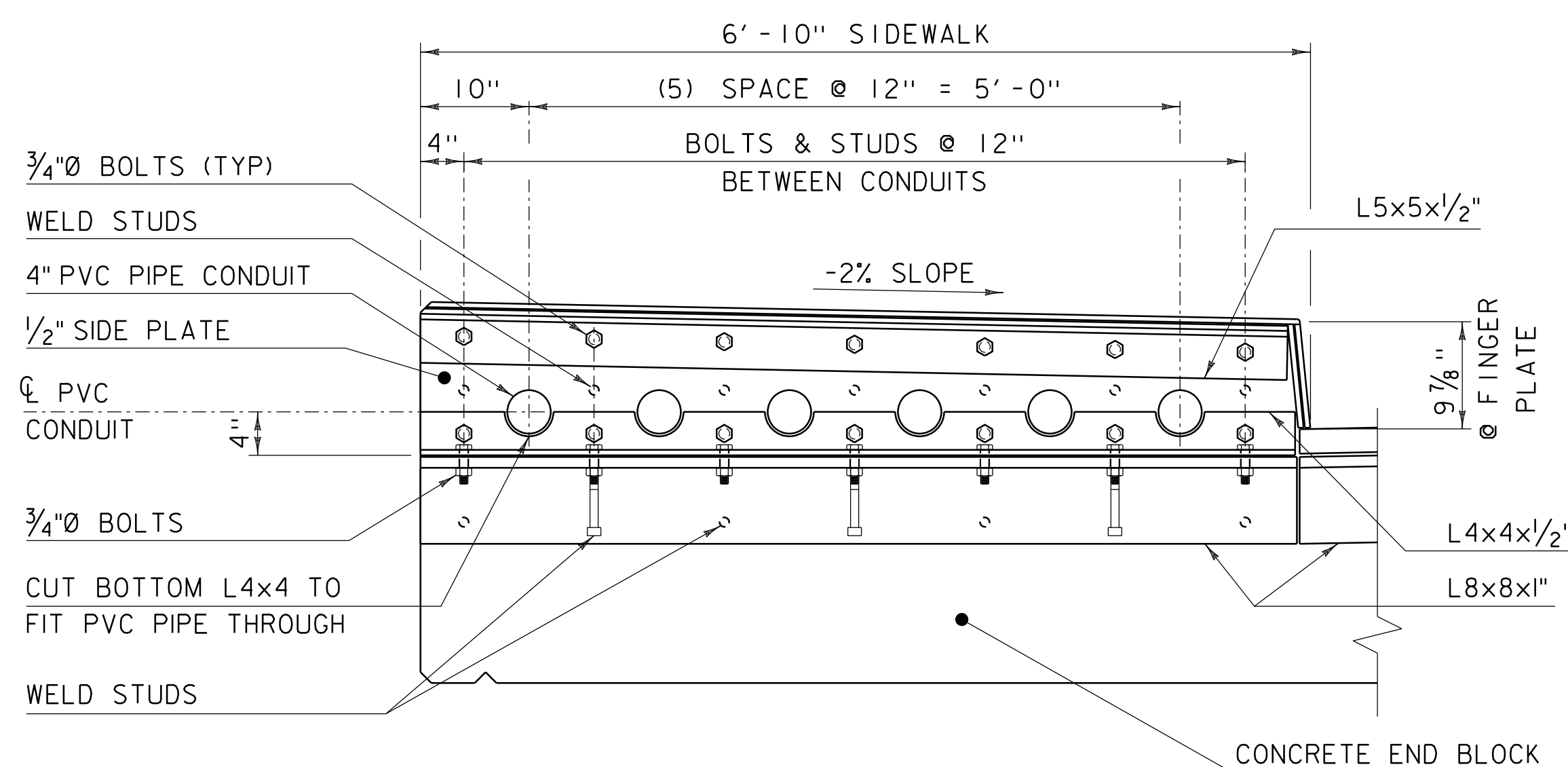
NOTE: SEAL WELD & GRIND SMOOTH ALL PLATE JOINTS PRIOR TO GALVANIZING.



SECTION B-B

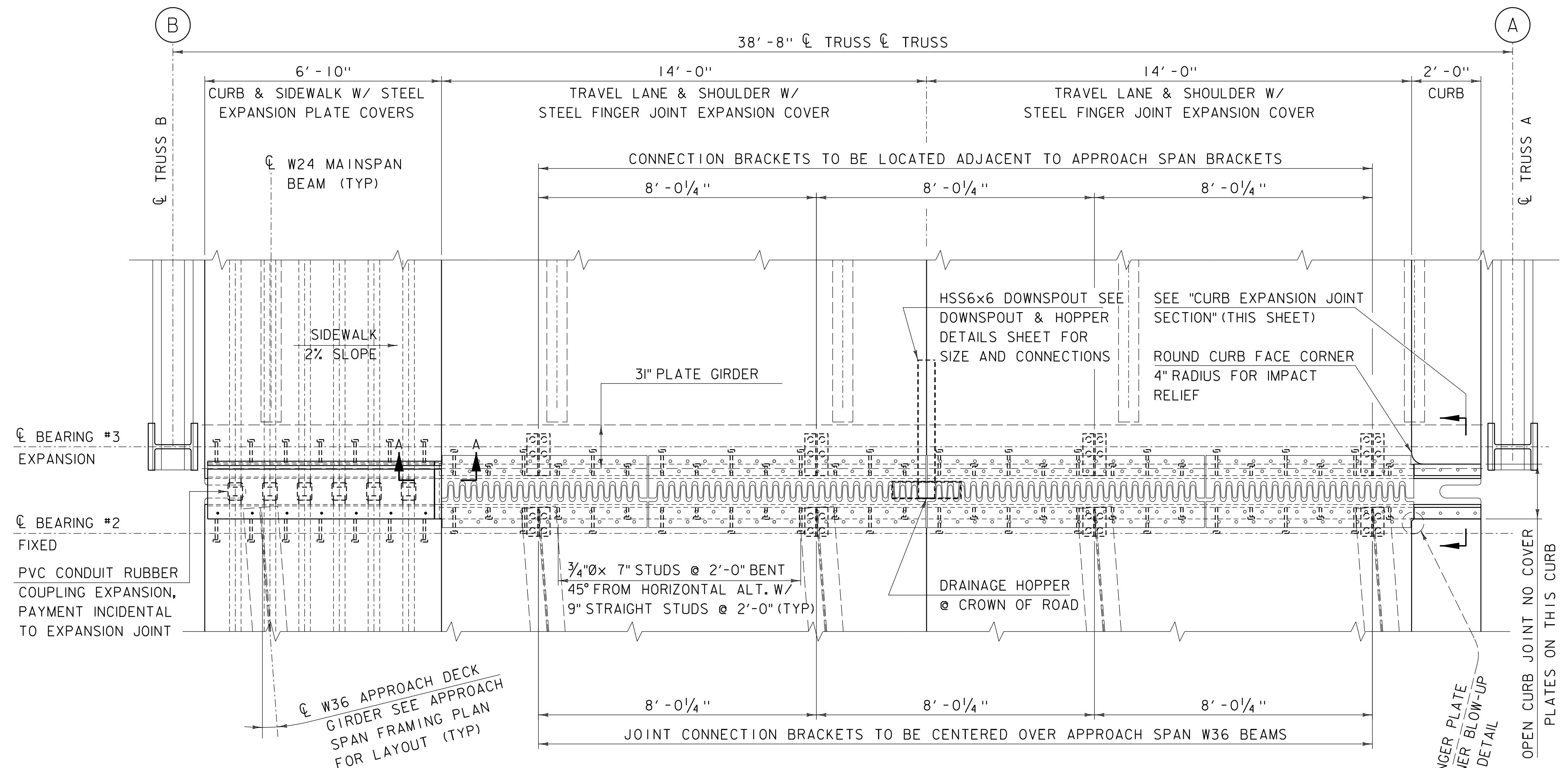
SCALE 1 1/2" = 1'-0"

NOTE: SEAL WELD & GRIND SMOOTH ALL PLATE JOINTS PRIOR TO GALVANIZING.



SIDEWALK JOINT ELEVATION

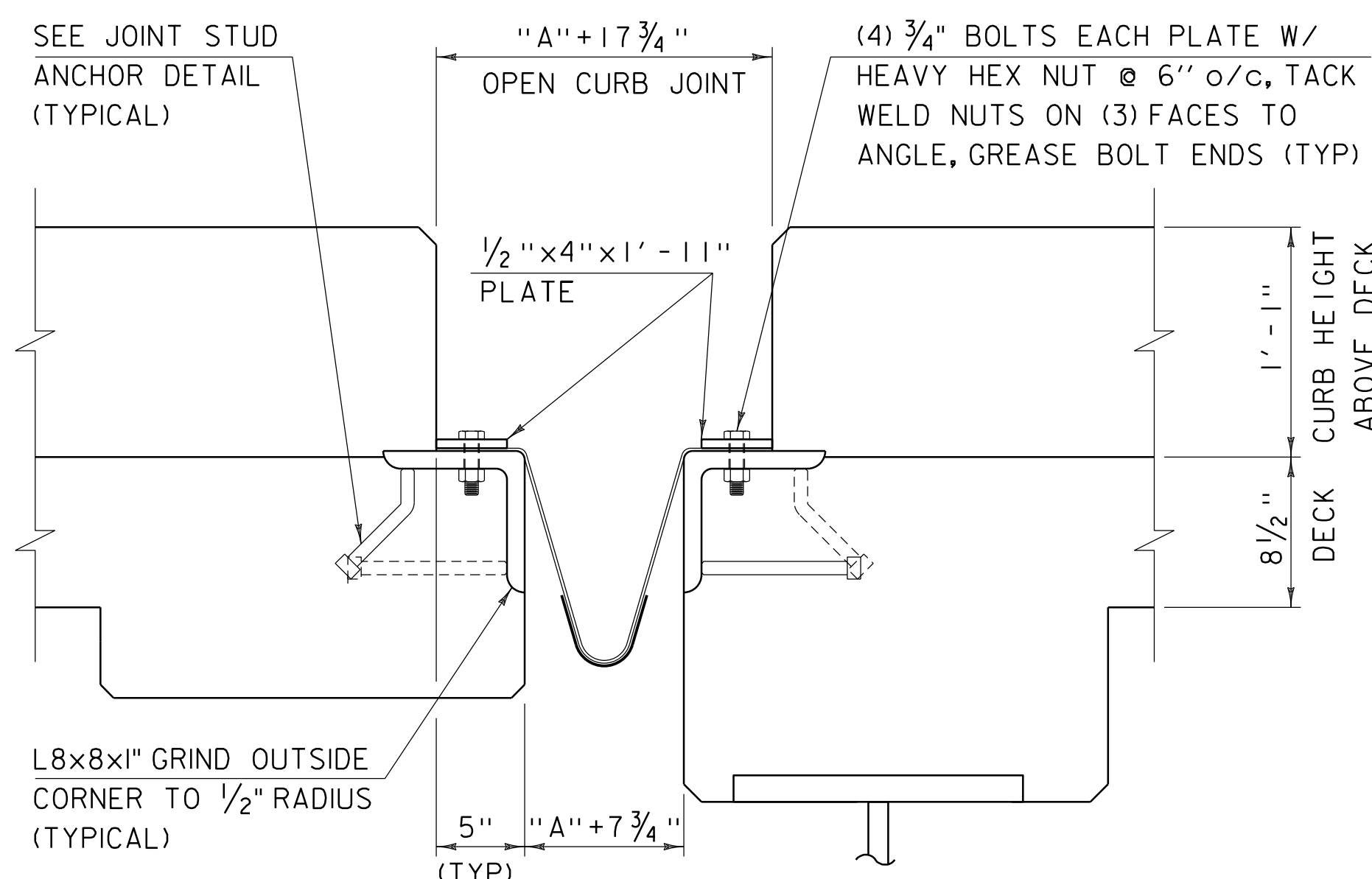
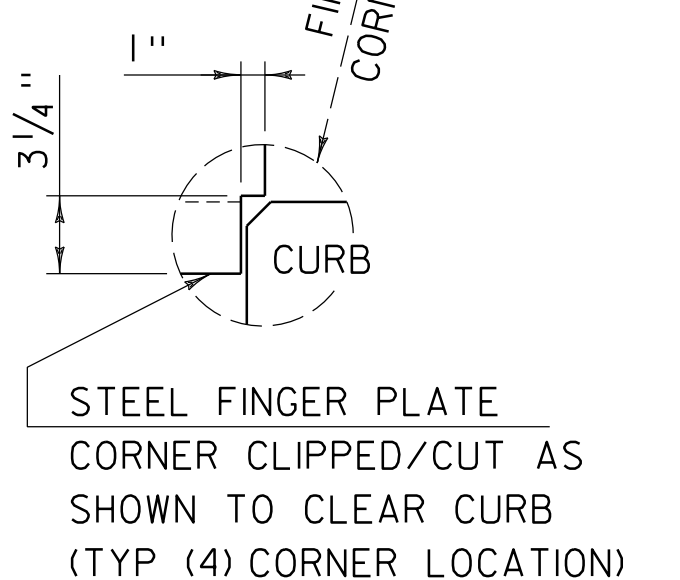
SCALE 1" = 1'-0"



EXPANSION JOINT PLAN DETAIL

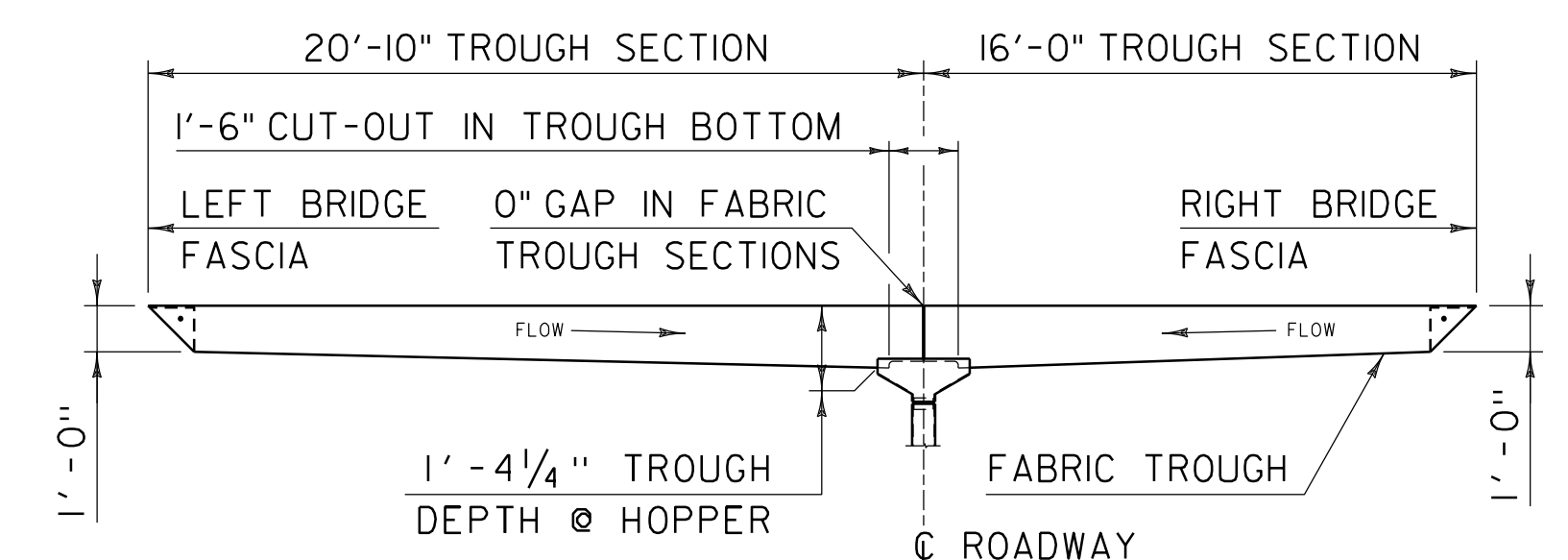
SCALE 1/2" = 1'-0"

SEE "EXPANSION JOINT DETAIL SHEET 1" FOR EXPANSION JOINT NOTES.



CURB EXPANSION JOINT SECTION

SCALE 1 1/2" = 1'-0"



FABRIC TROUGH ELEVATION

NOT TO SCALE

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161sup.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
EXPANSION JOINT PLAN & DETAILS	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	33 OF 100

7/8" HEAVY HEX NUT FOR EACH 7/8" HEAVY
HEX BOLT, WELD NUT ON (3) FACES,
ANTI-SEIZE LUBE END OF BOLTS (TYP)

SEE APPROACH & MAIN SPAN
CONCRETE DETAIL SHEETS
FOR REINFORCING (ADJUST
BARS AS SHOWN TO AVOID
CONFLICT WITH JOINT
ASSEMBLY COMPONENTS
(TYPICAL)

1"Ø DRAIN TUBE AT FACE
OF CURB ON LOW ENDS

L8x8x1" GRIND OUTSIDE CORNER
TO 1/2" RADIUS (TYPICAL)

PREFORMED FABRIC TROUGH
5/32 " (3 PLY) W/ DRIP
BEAD @ HOPPER

Ⓢ BEARING #2 STA 125+47.50	Ⓢ BEARING #3 STA 125+50.00
--	--

FILL HOLES WITH JOINT SEALER, HOT POURED
AFTER BOLT INSTALLATION. PAYMENT
INCIDENTAL TO ITEM 516.12 (TYP)

7/8"Ø HIGH STRENGTH (GALV.) BOLTS IN 1"Ø HOLES
@ 12" SPACING, ALTERNATE @ 6" W/ ADJACENT BOLTS.
COUNTERBORE 2 3/4"Øx 1" DEEP. COAT BOLT AND
NUT THREADS WITH ANTI-SEIZE LUBE.

3" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT

EXP. JOINT CONNECTION BRACKET
SEE BRACKET DETAILS THIS SHEET

1"Ø THREADED ROD WITH (2) HEAVY
HEX NUTS AND (2) PLATE WASHERS
FOR EACH, (4) EACH BRACKET (TYP)

FINGER JOINT TEMPERATURE RANGE TABLE

TEMP "A" DIST.	
0° F	3 $\frac{1}{8}$ "
15° F	2 $\frac{7}{8}$ "
30° F	2 $\frac{9}{16}$ "
45° F	2 $\frac{5}{16}$ "
60° F	2"
68° F	1 $\frac{7}{8}$ "
75° F	1 $\frac{3}{4}$ "
90° F	1 $\frac{1}{16}$ "
105° F	1 $\frac{3}{16}$ "
120° F	$\frac{7}{8}$ "

"A" IS THE SETTING
BEFORE DEAD LOADS
ARE IN PLACE.

EXPANSION JOINT NOTES

1. JOINT DETAILS ARE FOR ITEM 516.12 "BRIDGE EXPANSION JOINT, FINGER PLATE". FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATION.
2. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS FROM FOLDED ENDS TO THE DOWN SPOUT DRAINAGE HOPPER. PRIOR TO GALVANIZING OR METALIZING, ALL CORNERS AND EDGES OF STEEL PLATES, SHAPES, ETC., SHALL BE GROUND TO A $\frac{1}{16}$ " INCH RADIUS.
3. THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED DURING THE PLACING OF BRIDGE DECK CONCRETE.
4. ALL STEEL COMPONENTS SHALL BE GALVANIZED OR METALIZED AND MEET THE REQUIREMENTS OF SUBSECTION 516.02. THREADED RODS SHALL CONFORM TO THE REQUIREMENTS OF SUBSECTION 714.04. THE "BRACKET PLATE WASHER" AND WELDED STUDS MAY BE SUPPLIED WITHOUT GALVANIZING OR METALIZING.
5. TEMPORARY SHIPPING ATTACHMENTS SHALL BE ATTACHED BY BOLTING; WELDING WILL NOT BE PERMITTED.
6. PROJECTING THREADS OF THE $\frac{7}{8}$ " BOLTS IN THE JOINT SHALL BE GREASED BY THE CONTRACTOR PRIOR TO PLACING ADJACENT CONCRETE. THIS WILL FACILITATE BOLT REMOVAL IF REQUIRED IN THE FUTURE.
7. THE ITEM 516.12 "BRIDGE EXPANSION JOINT, FINGER PLATE" SHALL INCLUDE THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLY INCLUDING ALL STEEL PLATES, BRACKETS, ANGLES, WELDED STUDS OR RODS, PREFORMED FABRIC DRAIN TROUGH MATERIAL AND PLASTIC DRAIN TUBES, BUTYL RUBBER TAPE AND ANY OTHER MISCELLANEOUS MATERIAL NECESSARY TO INSTALL JOINT.
8. SEE FINGER JOINT TEMPERATURE RANGE TABLE FOR DISTANCE "A" VALUES.
9. FILL COUNTERBORED HOLES WITH HOT POURED JOINT SEALER (STD. SPEC. 707.04) AFTER BOLT INSTALLATION. PAYMENT FOR THE WORK SHALL BE INCIDENTAL TO ITEM 516.12 "BRIDGE EXPANSION JOINT, FINGER PLATE".
10. THE EXPANSION JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT. A DRIP BEAD OF $\frac{1}{4}$ "x7" STRIP OF PREFORMED FABRIC MATERIAL SHALL BE CEMENTED TO THE BOTTOM OF THE FABRIC TROUGH USING AN ADHESIVE APPROVED BY THE MANUFACTURER. THE DRIP BEADS SHALL BE APPLIED 1" FROM THE DOWNSPOUT END CUT-OUT IN EACH TROUGH SECTION.

EXPANSION JOINT TYPICAL SECTION

SCALE 1 1/2" = 1'-0"

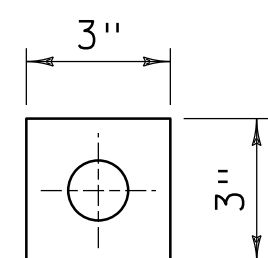
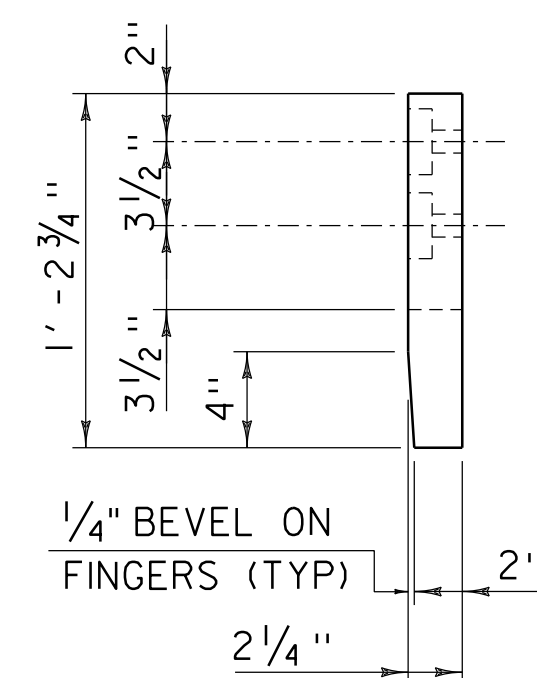


PLATE WASHER
3/8" x 3" x 3" W/
1 1/4" Ø HOLE

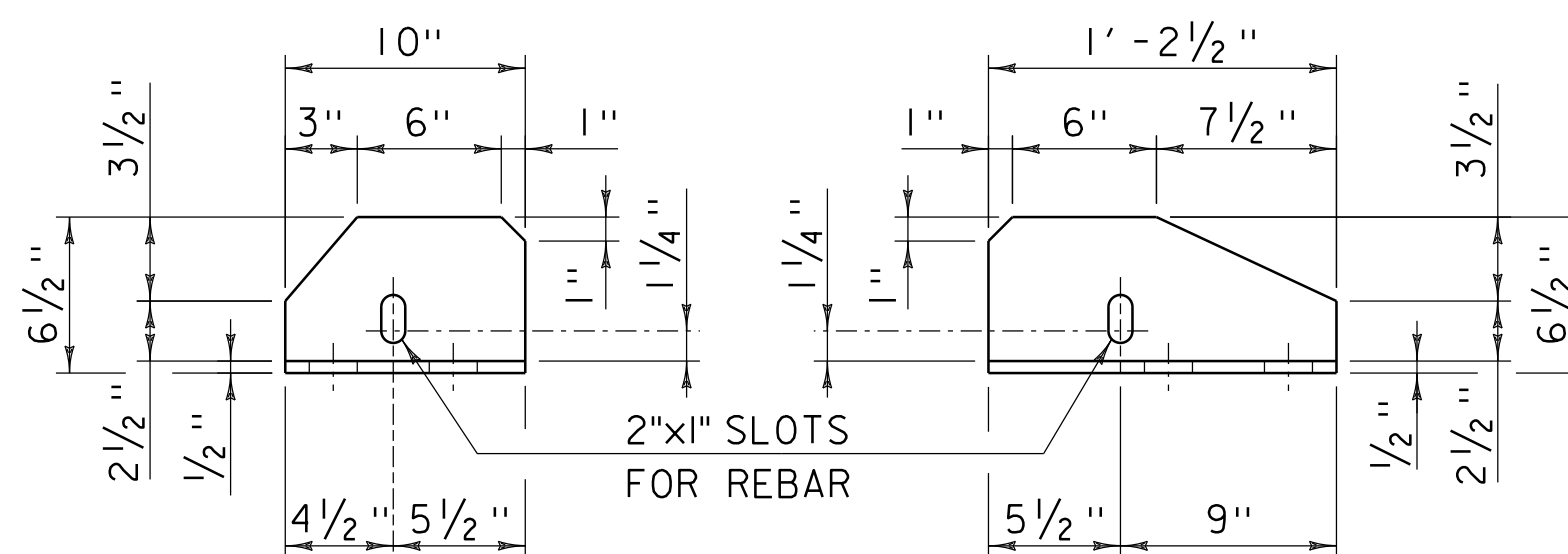
BRACKET PLATE WASHER

SCALE 3" = 1' - 0"



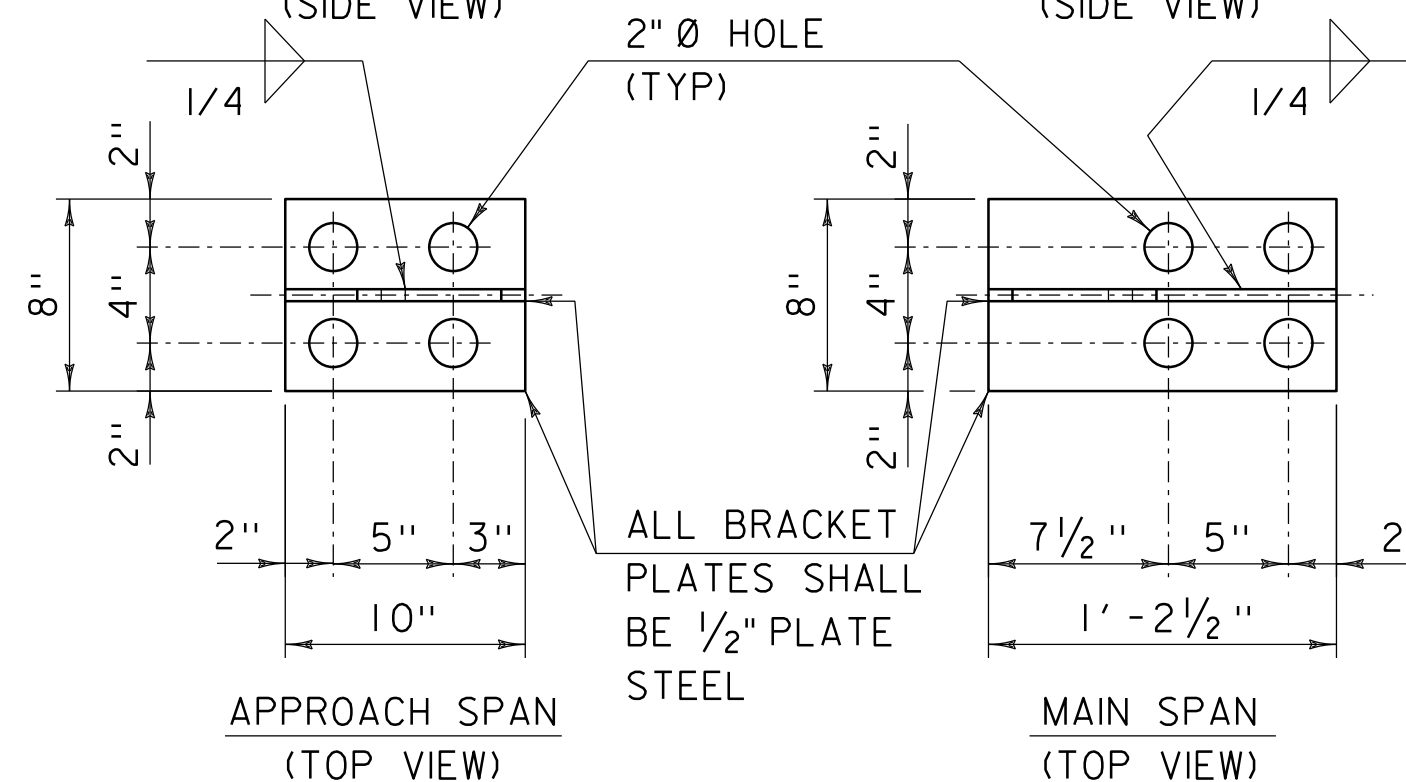
FINGER PLATE SECTION

SCALE 1 1/2" = 1' - 0"



APPROACH SPAN
(SIDE VIEW)

MAIN SPAN
(SIDE VIEW)

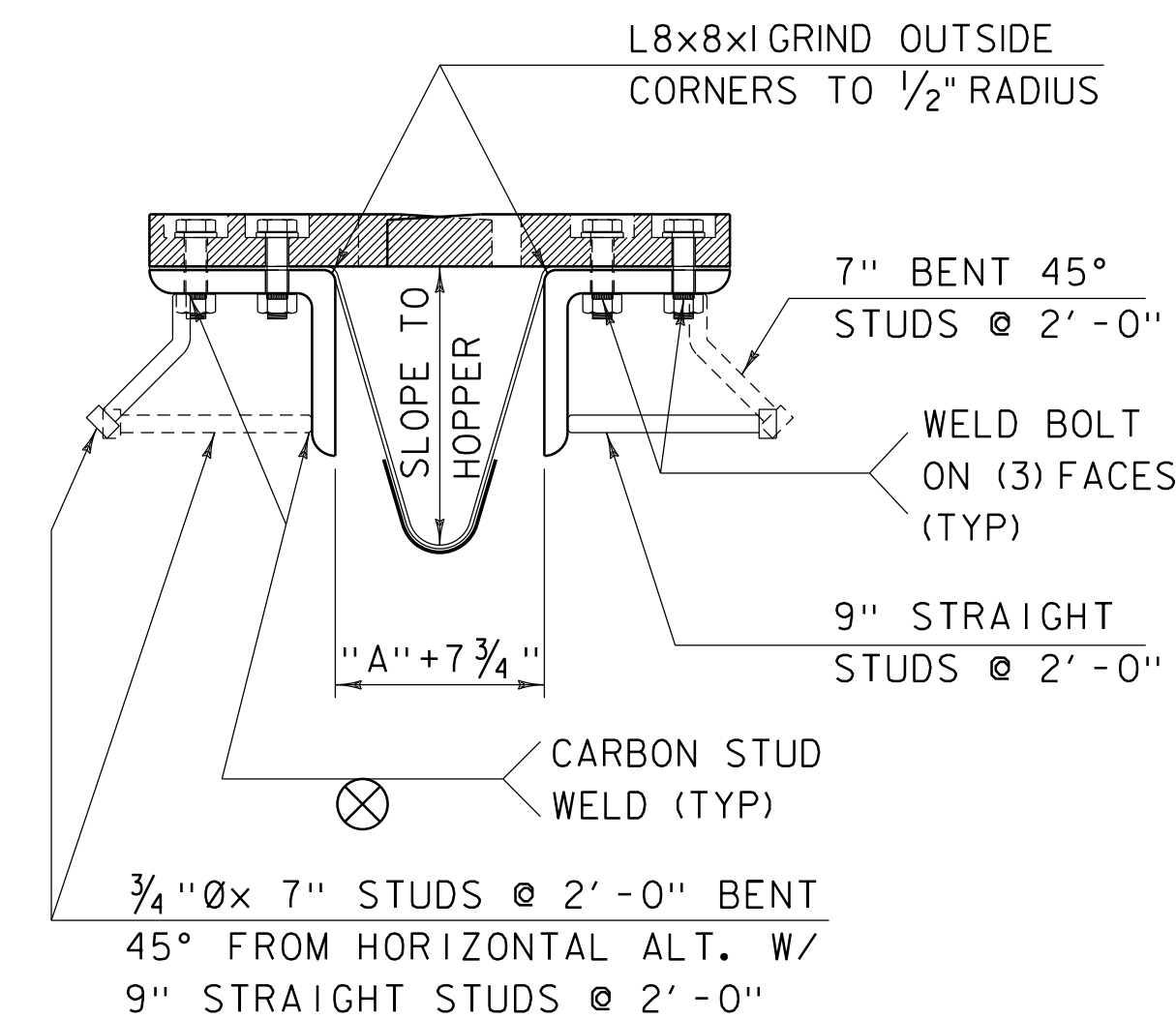


(TOP VIEW)

MAIN SPAN
 (TOP VIEW)

BRACKET DETAILS

SCALE 1 1/2" = 1' - 0"

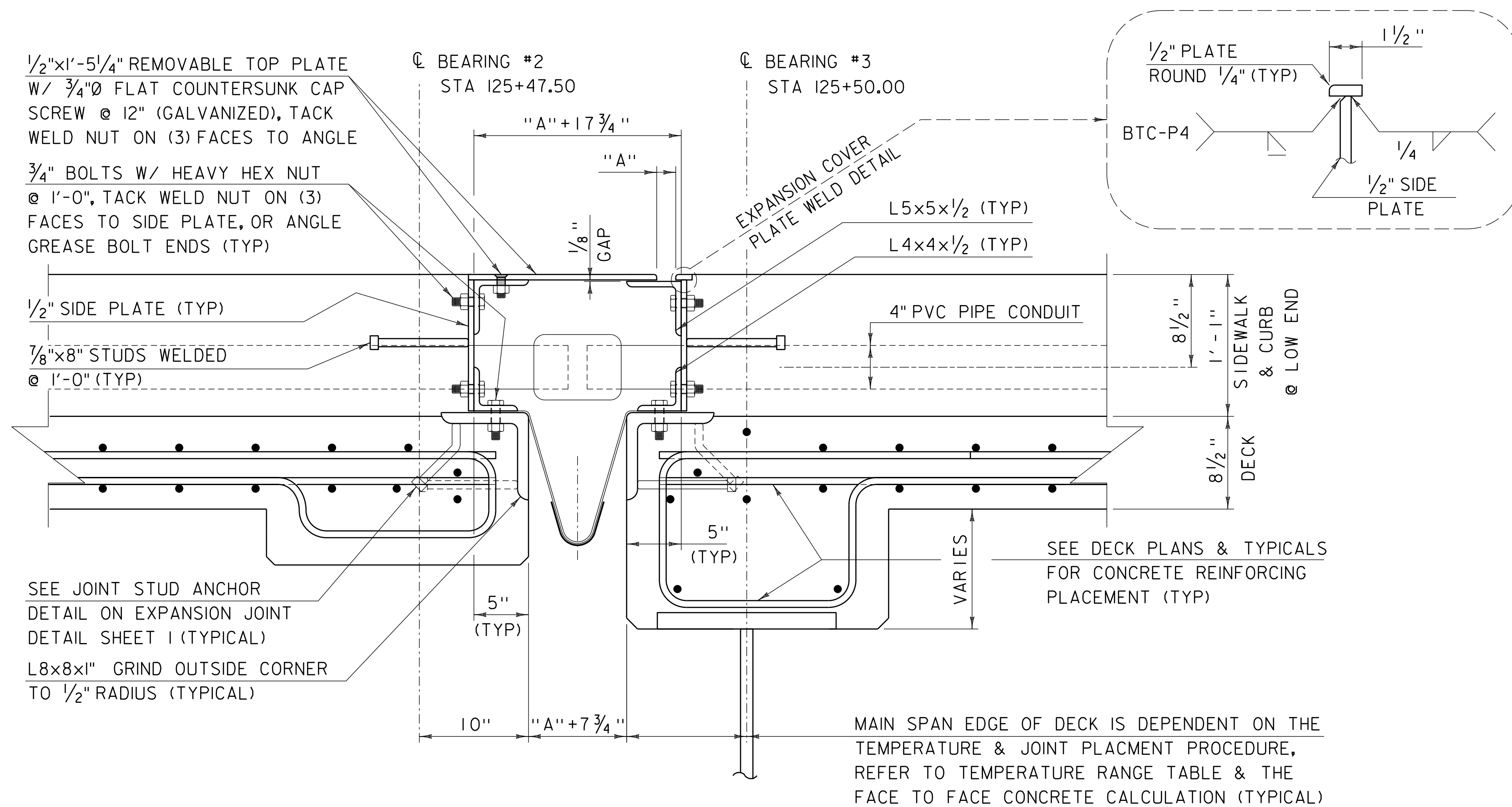


JOINT STUD ANCHOR DETAIL

SCALE 1 1/2" = 1' - 0"

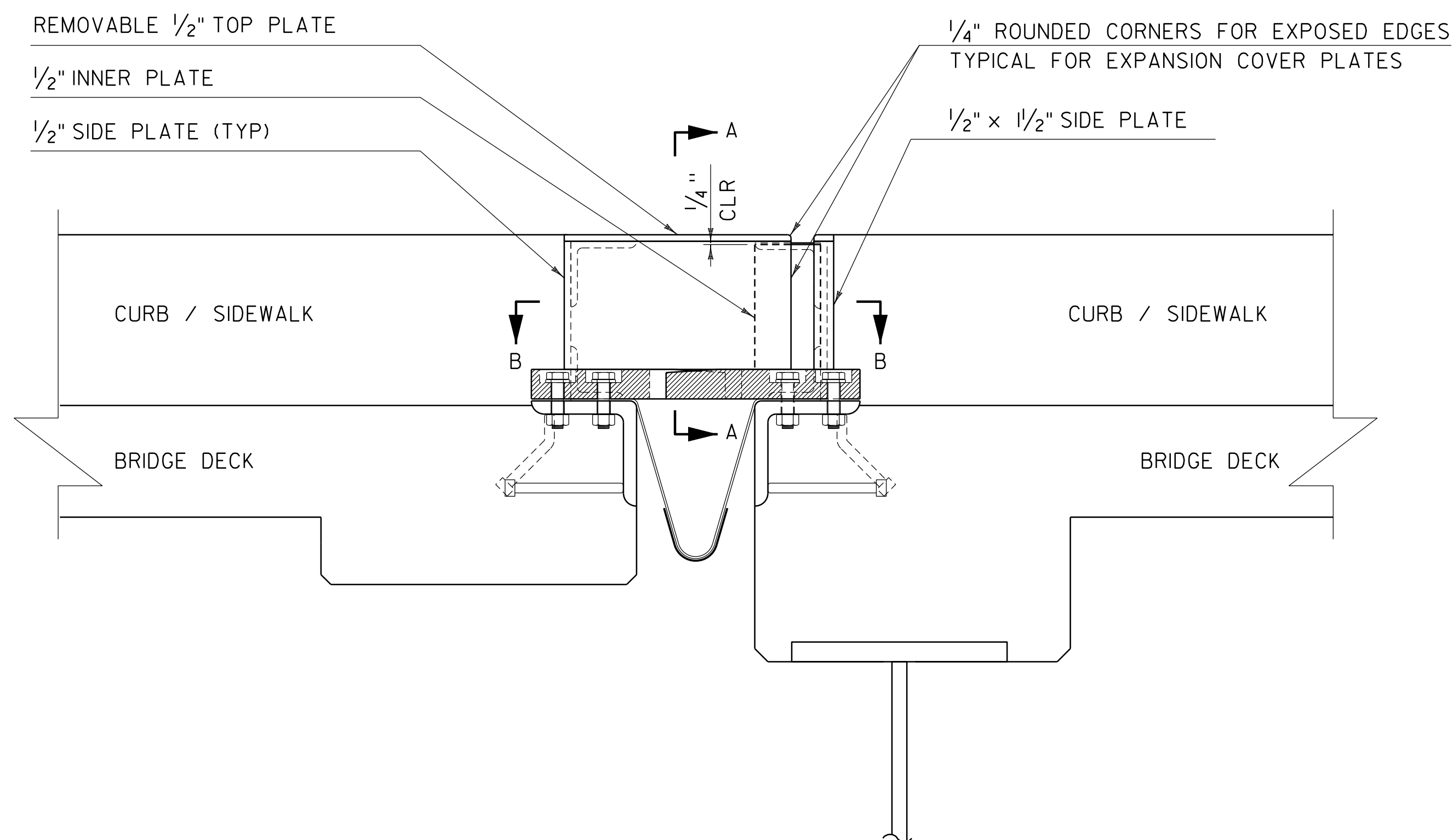
PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)

FILE NAME: s78f161sup.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EXPANSION JOINT DETAIL SHEET 1	SHEET 34 OF 100



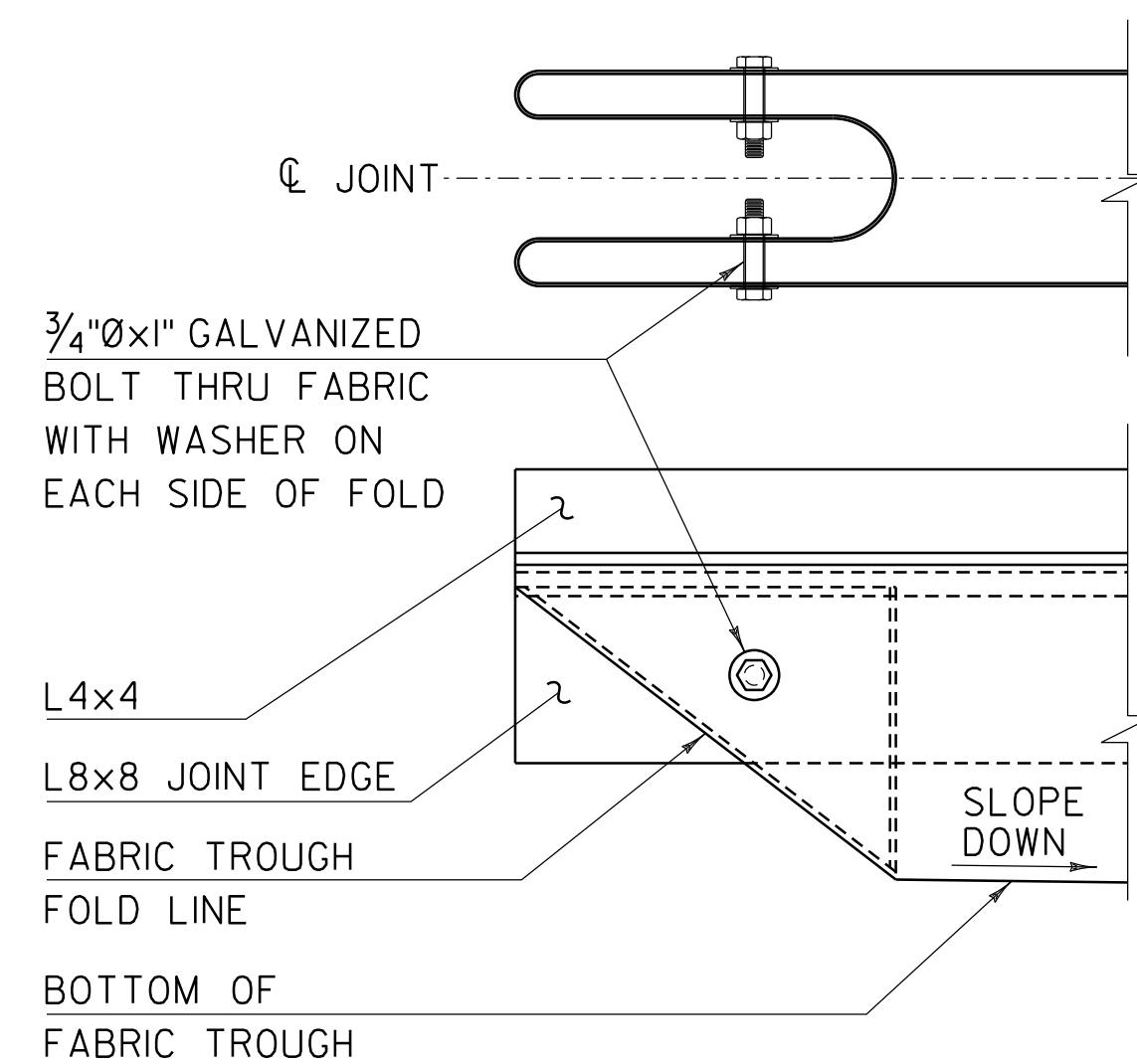
SIDEWALK EXPANSION JOINT (TYP)

SCALE 1 1/2" = 1'-0"



SIDEWALK EXPANSION JOINT (TYP)

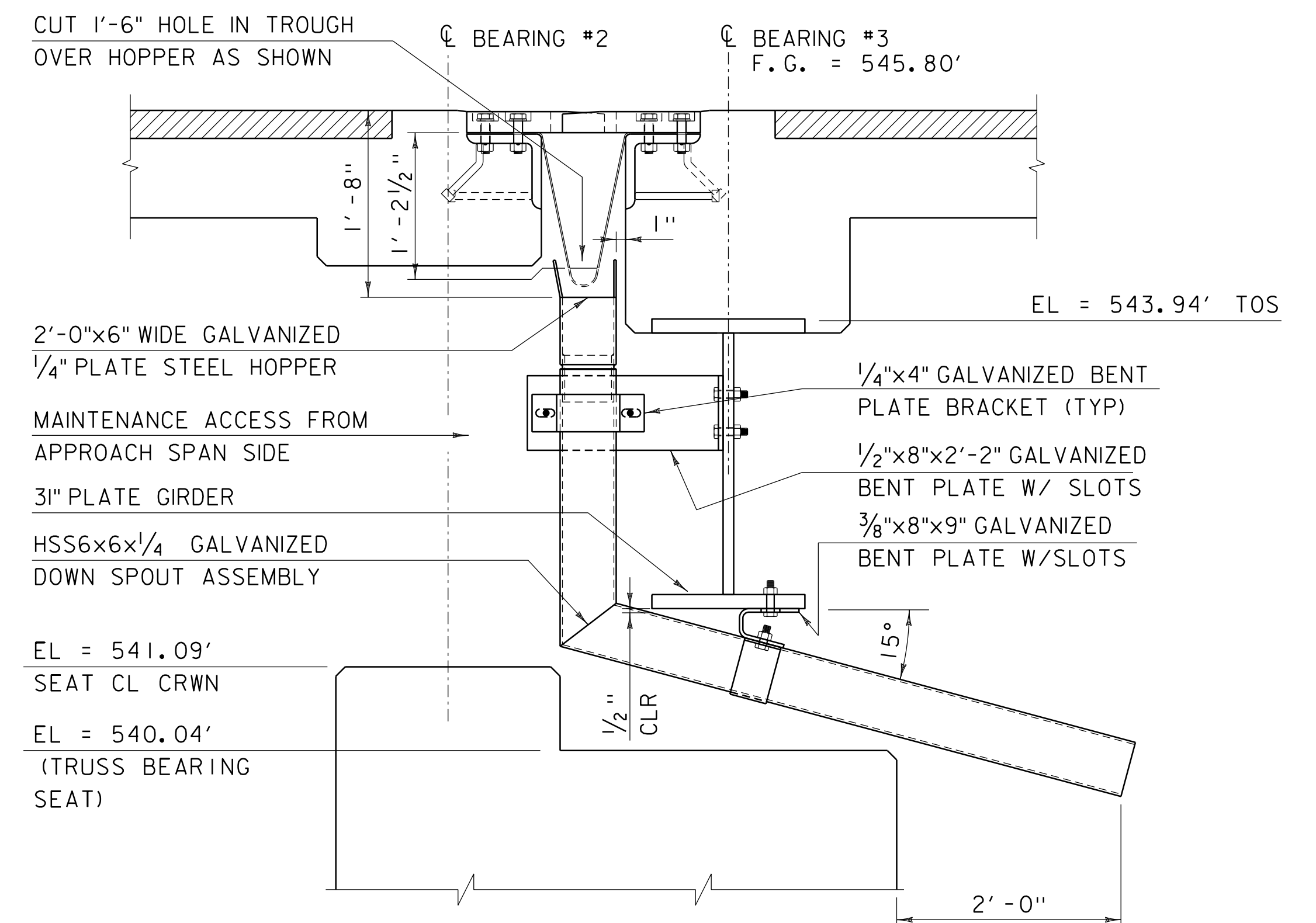
SCALE 1 1/2" = 1'-0"



FOLDED TROUGH END DETAIL

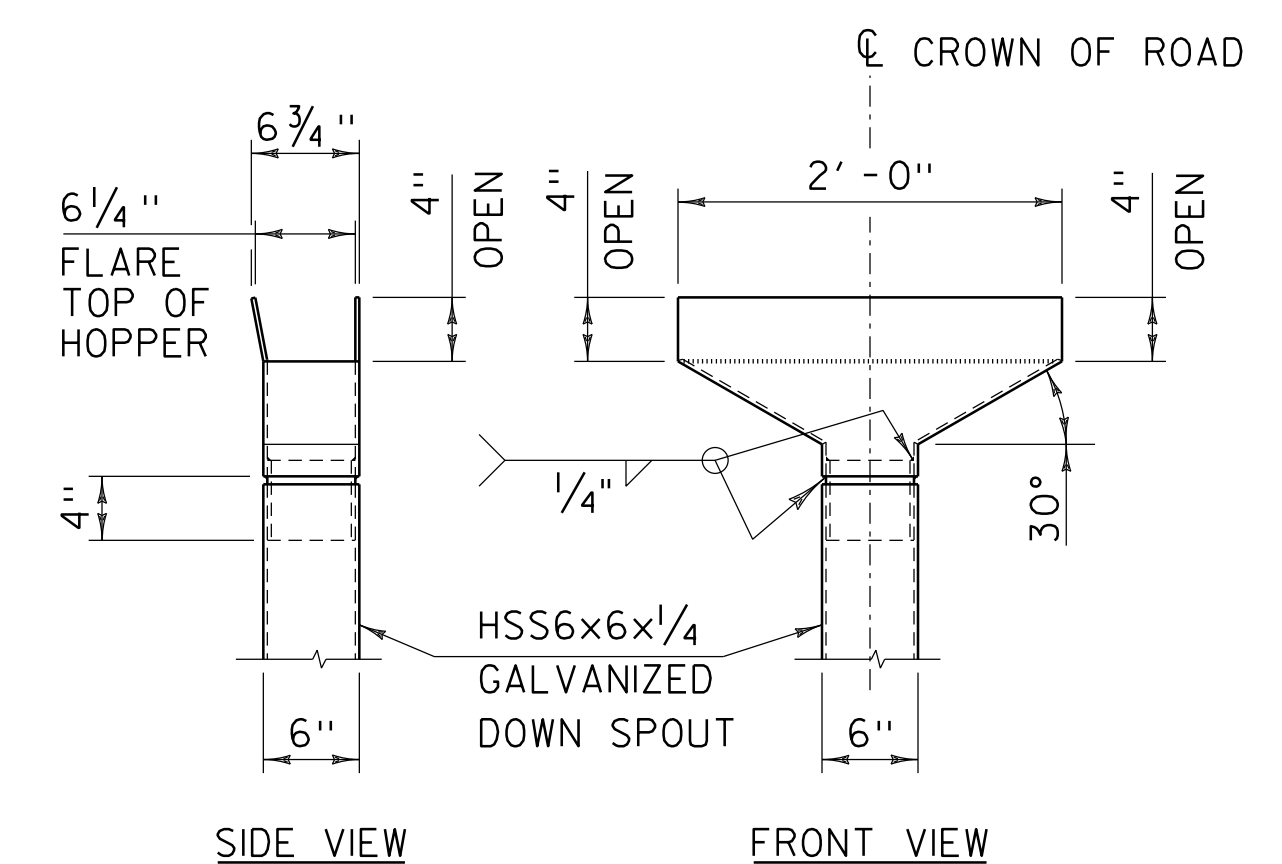
SCALE 1 1/2" = 1'-0"

1. TROUGH SHALL BE FOLDED AT BOTH LEFT AND RIGHT BRIDGE FASCIA ENDS. TROUGH SHALL SLOPE TOWARD BRIDGE CENTER DOWN SPOUT HOPPER LOCATION.
2. BOLTS, NUTS AND WASHERS FOR FOLD SHALL MEET REQUIREMENTS OF SUBSECTION 714.04 AND SHALL BE GALVANIZED.



HOPPER TYPICAL SECTION

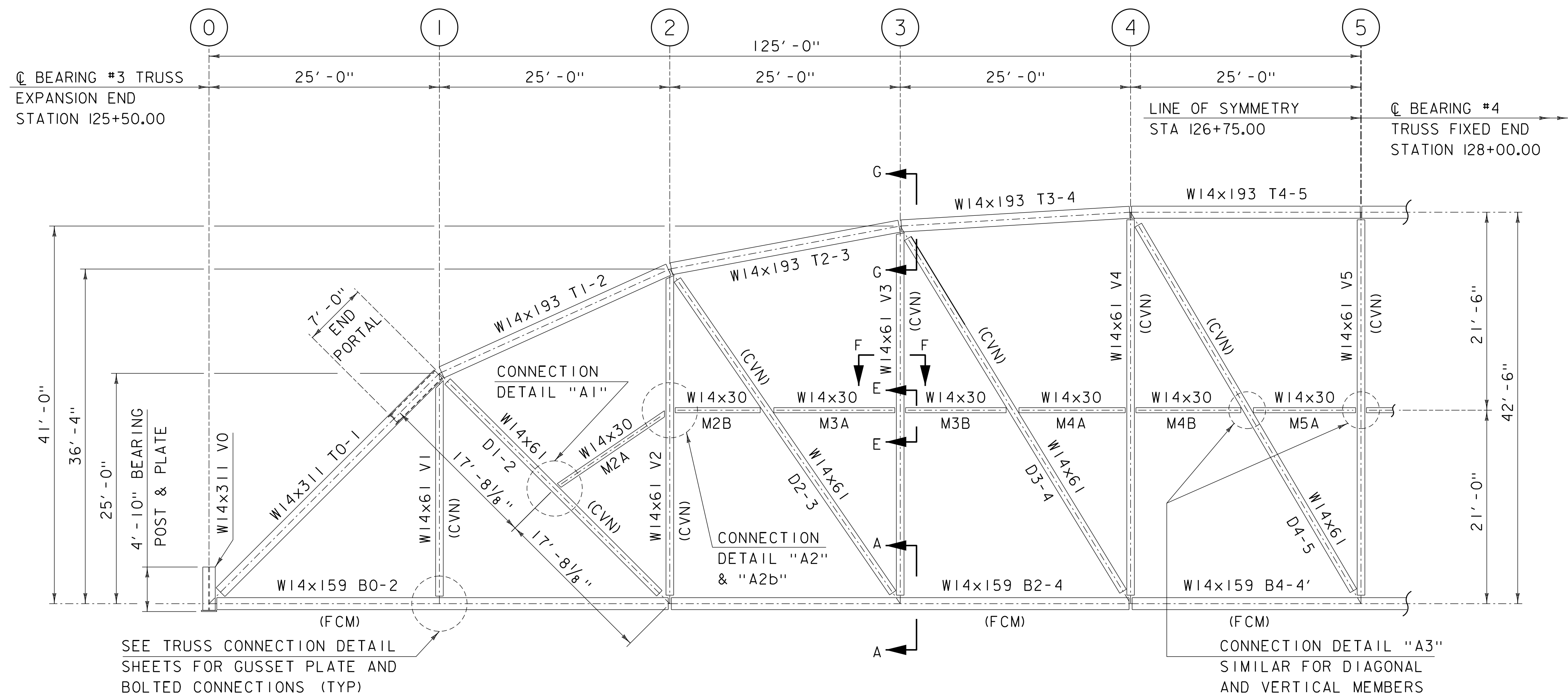
SCALE 1" = 1'-0"



HOPPER DETAILS

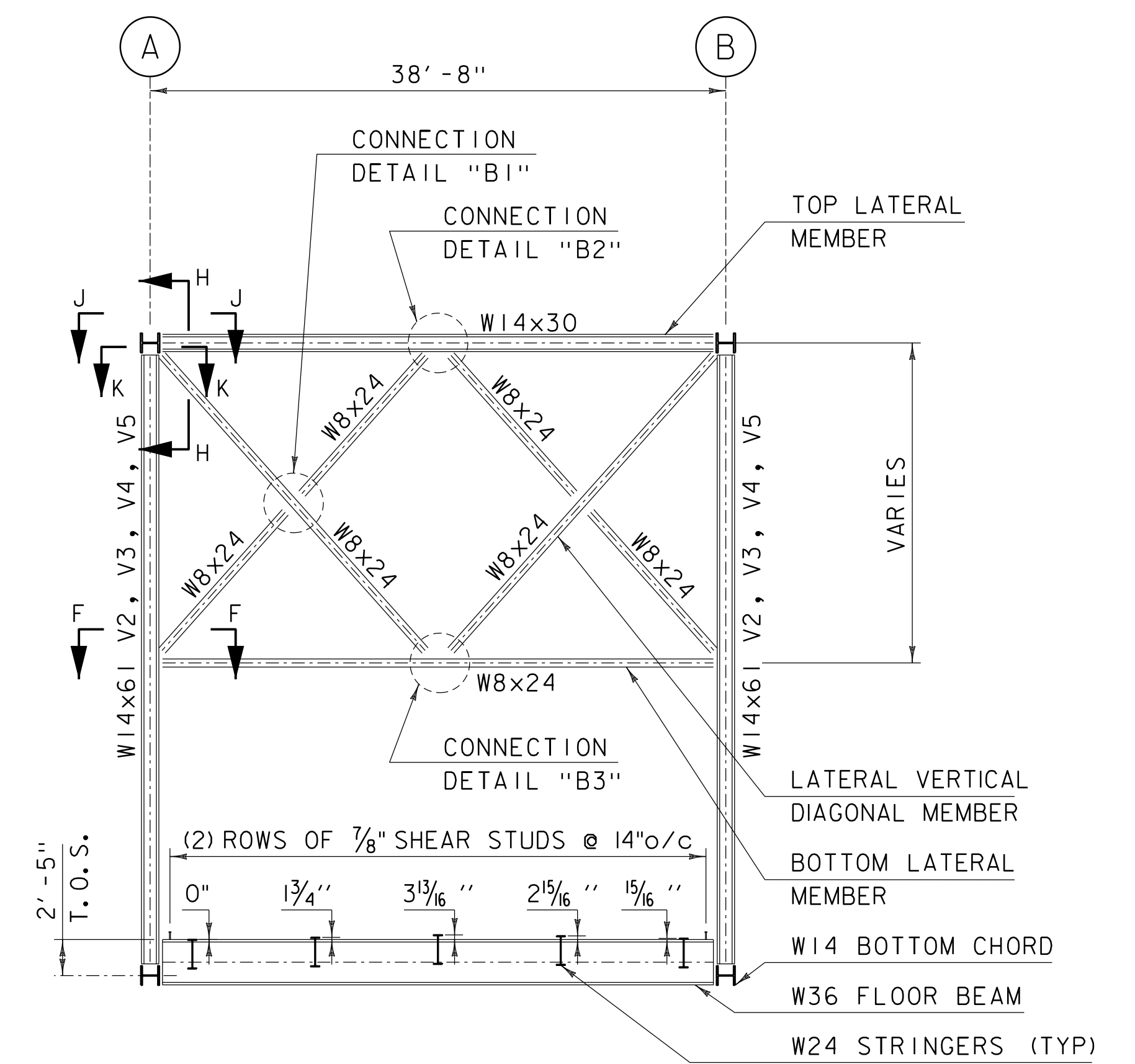
SCALE 1" = 1'-0"

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161sup.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EXPANSION JOINT DETAIL SHEET 2	SHEET 35 OF 100



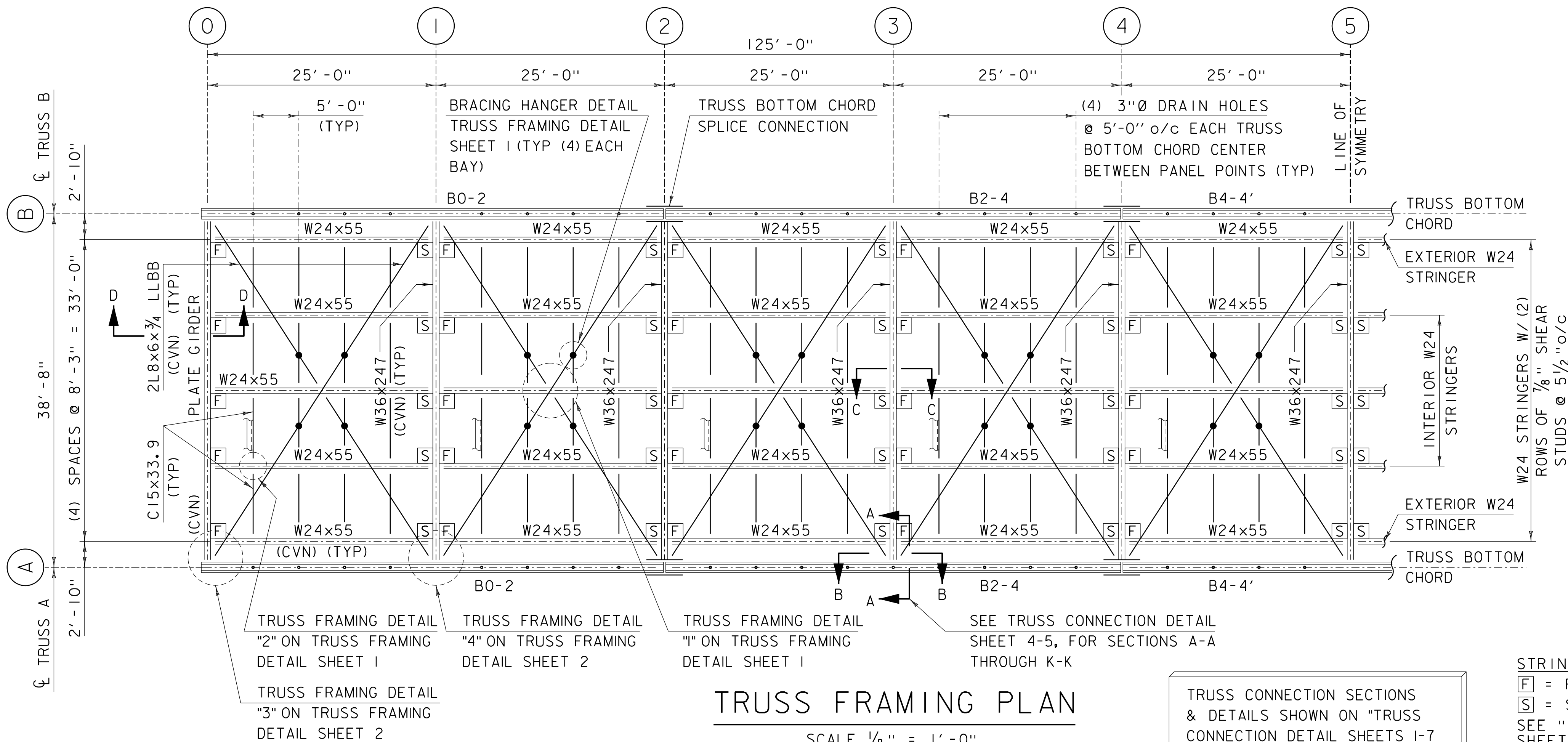
TRUSS FRAMING ELEVATION

SCALE $\frac{1}{8}'' = 1' - 0''$



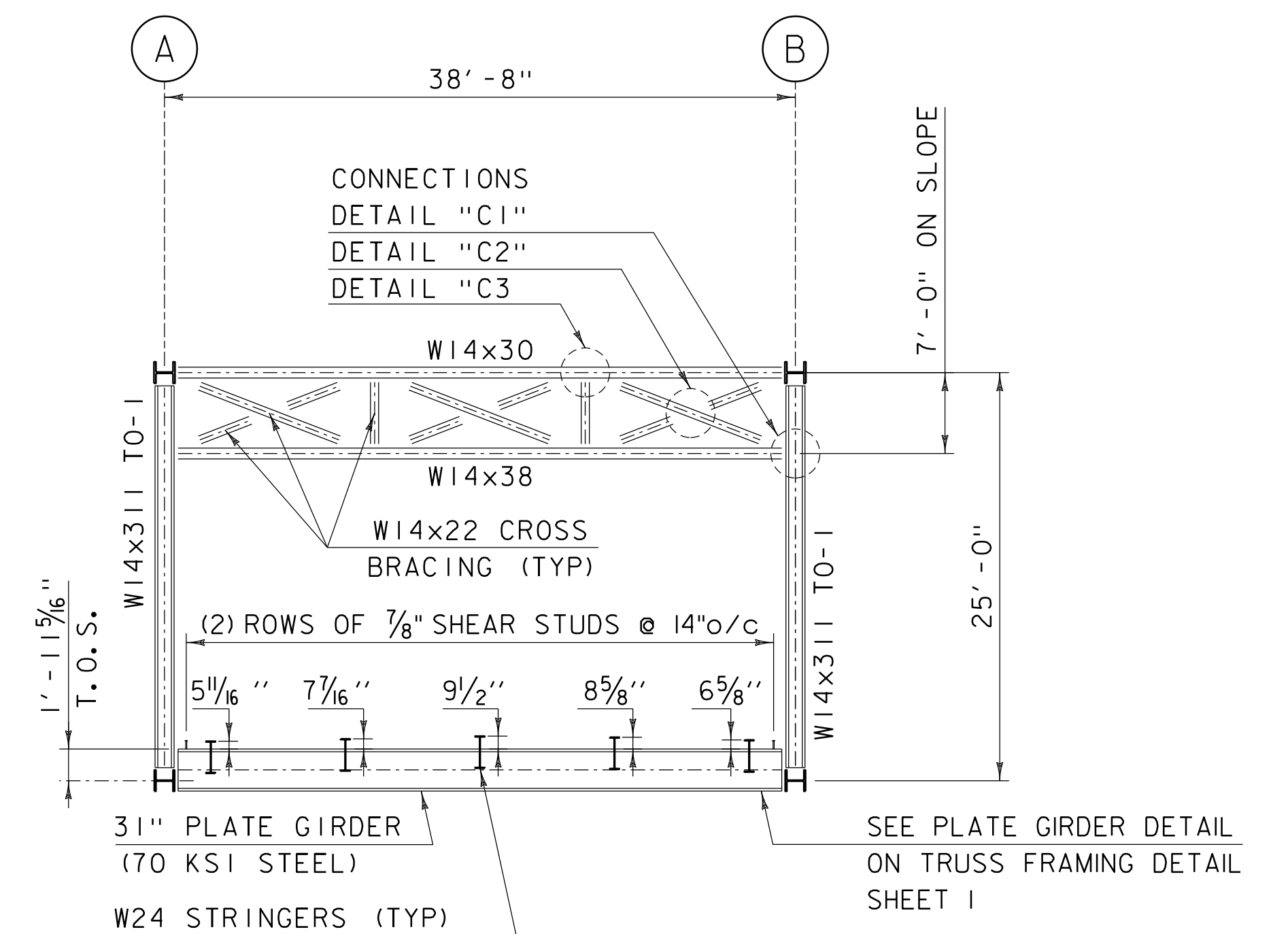
INTERNAL PORTAL ELEVATION

SCALE $\frac{1}{8}'' = 1' - 0''$



TRUSS FRAMING PLAN

SCALE $\frac{1}{8}'' = 1' - 0''$



END PORTAL ELEVATION

SCALE $\frac{1}{8}'' = 1' - 0''$

STRINGER CONNECTION NOTES

[F] = FIXED CONNECTION
[S] = SLOTTED CONNECTION
SEE "TRUSS FRAMING DETAIL SHEET 2" FOR CONSTRUCTION SEQUENCE NOTES.

TRUSS CONNECTION SECTIONS & DETAILS SHOWN ON "TRUSS CONNECTION DETAIL SHEETS 1-7"

PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)
FILE NAME: s78f161truss.dgn
PROJECT LEADER: G.H.K
DESIGNED BY: A.B.C.
TRUSS FRAMING PLAN & ELEVATIONS
PLOT DATE: 1/28/2013
DRAWN BY: M. LONGSTREET
CHECKED BY: D.E.F.
SHEET 36 OF 100



31" PLATE GIRDER DETAIL

SCALE 1" = 1'-0"

4 5 4'

25' - 0" 25' - 0"

LINE OF SYMMETRY

CONNECTIONS
DETAIL "D1"
DETAIL "D2"

W14x193 W14x193

W14x53 W14x53 W14x53 W14x53 W14x53 W14x53

W14x30 W14x30 W14x30 W14x30 W14x30 W14x30

38' - 8"

CL TRUSS B

B

CL TRUSS A

A

CONNECTION
DETAIL "D3"

TOP LATERAL MEMBER

TOP LATERAL
DIAGONAL MEMBERS

TOP LATERAL CENTER
SUPPORT MEMBERS

TRUSS CAMBER

1. THE TRUSS
SUCH THAT
RESIDUAL
ASSEMBLED
SERVICE 1

2. STRINGER
SHALL BE

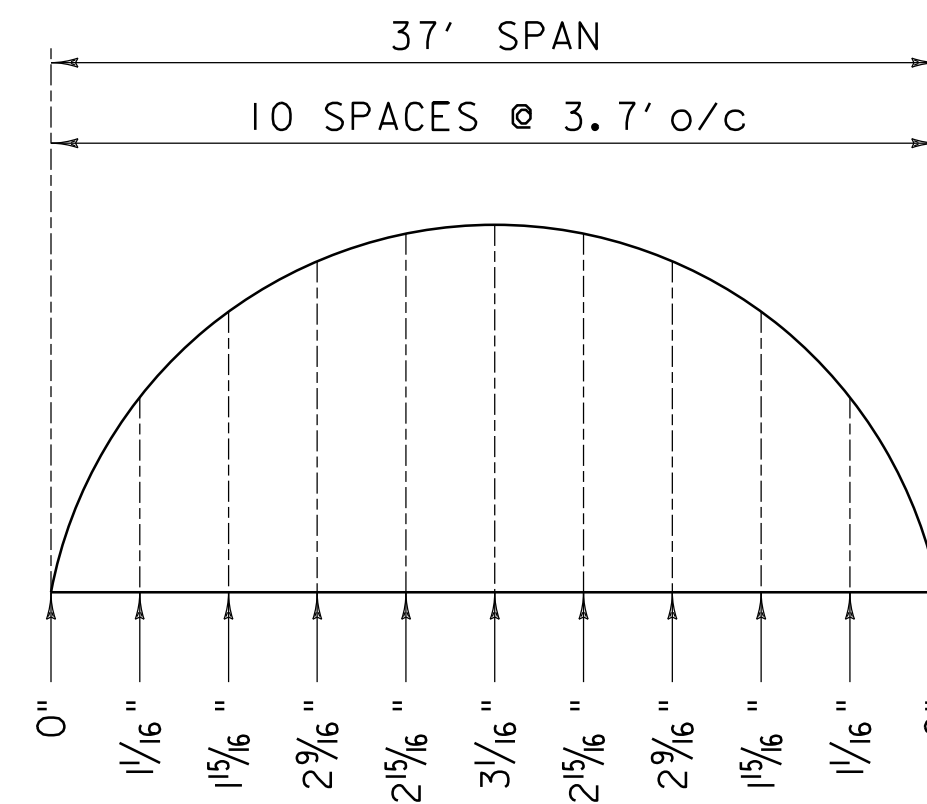
TRUSS TOP LATERAL FRAMING

SCALE $\frac{1}{8}" = 1' - 0"$

-
- 2 1/2" @ LOW W24
3 3/4" @ HIGH W24
5 1/2" AT LOW W24
HOLD THIS LINE
ACROSS DIAPHRAGM
FRAMING LINE
- USE 1" FROM
EDGE OF STUD
TO EDGE OF
FLANGE ALONG
W24 STRINGERS
- 1 1/2" (TYP)
(3) SPACES @ 3" = 9"
7/8" Ø BOLTS (TYP)
- C15
- L 3 1/2" x 3 1/2" x 1/2"
SINGLE ANGLE
CONNECTION
- W24
- C15
- C15 DIAPHRAGMS ACROSS THE
BRIDGE HAVE THE SAME TOS
ELEVATION, TO LINE UP THE
BOLTED CONNECTION HOLES
- ## TRUSS FRAMING DETAIL "2"
- SCALE 1 1/2" = 1' - 0"

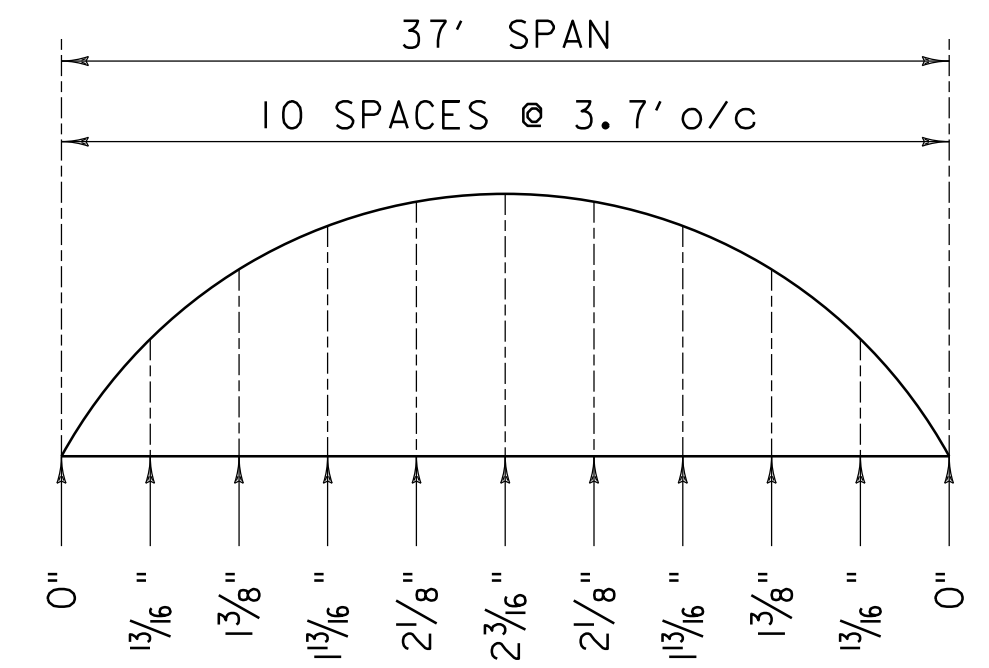
TRUSS CONNECTION SECTIONS
& DETAILS SHOWN ON "TRUSS
CONNECTION DETAIL SHEETS 1-7

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78fi6ltruss.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TRUSS FRAMING DETAIL SHEET 1	SHEET 37 OF 100



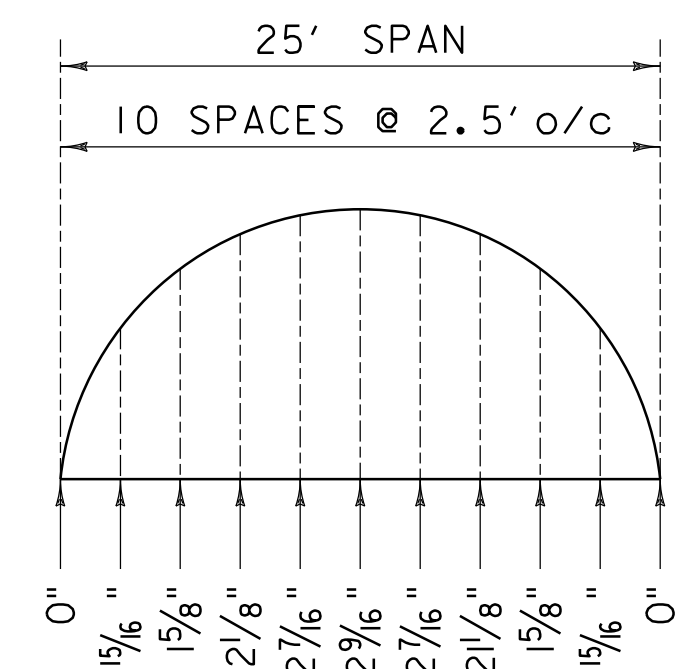
W36x247 FLOOR BEAM
CAMBER DIAGRAM

NTS



31" PLATE GIRDER
CAMBER DIAGRAM

NTS



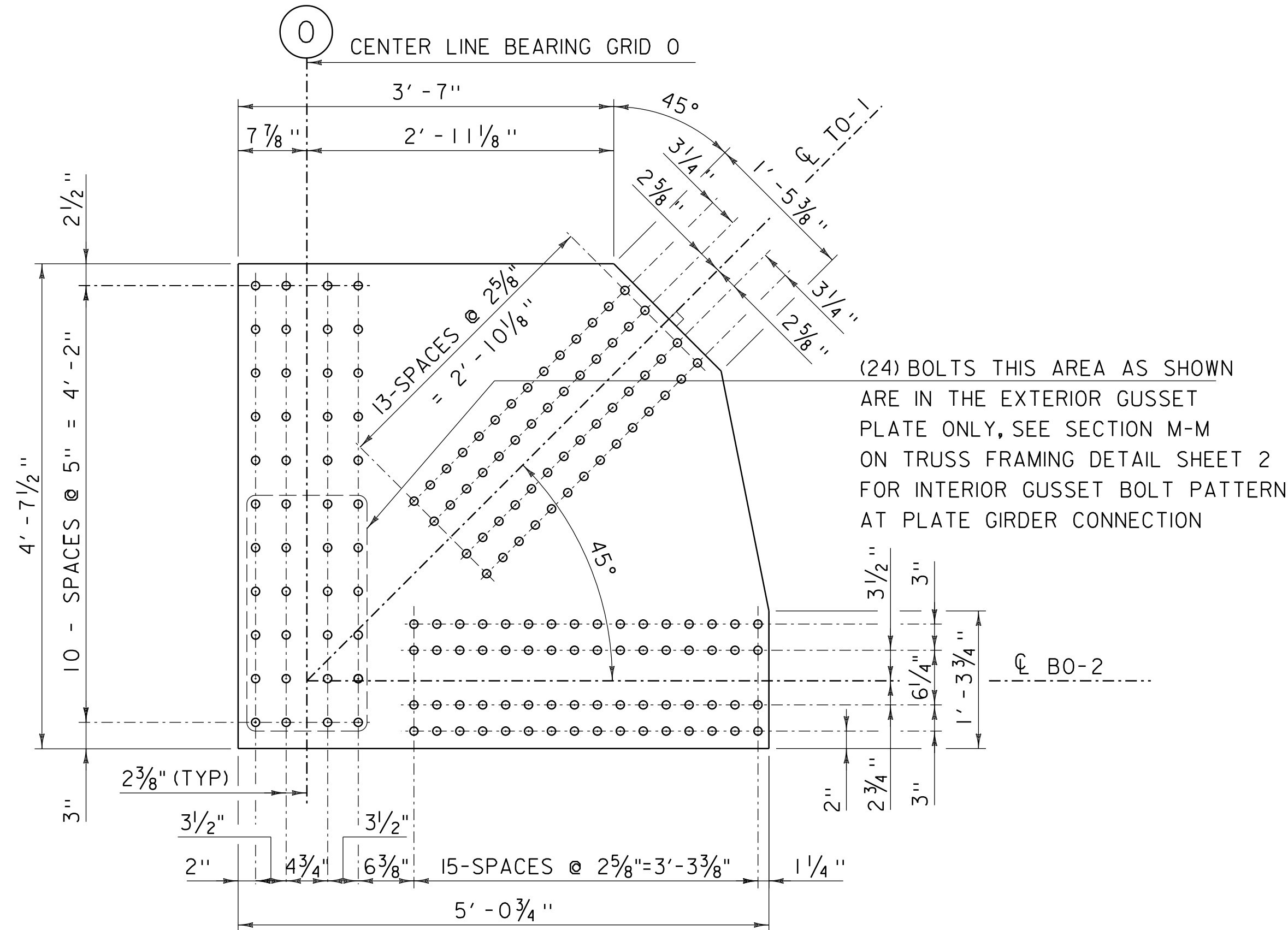
W24x55 STRINGER
CAMBER DIAGRAM

NTS

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161truss.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TRUSS FRAMING DETAIL SHEET 3	SHEET 39 OF 100

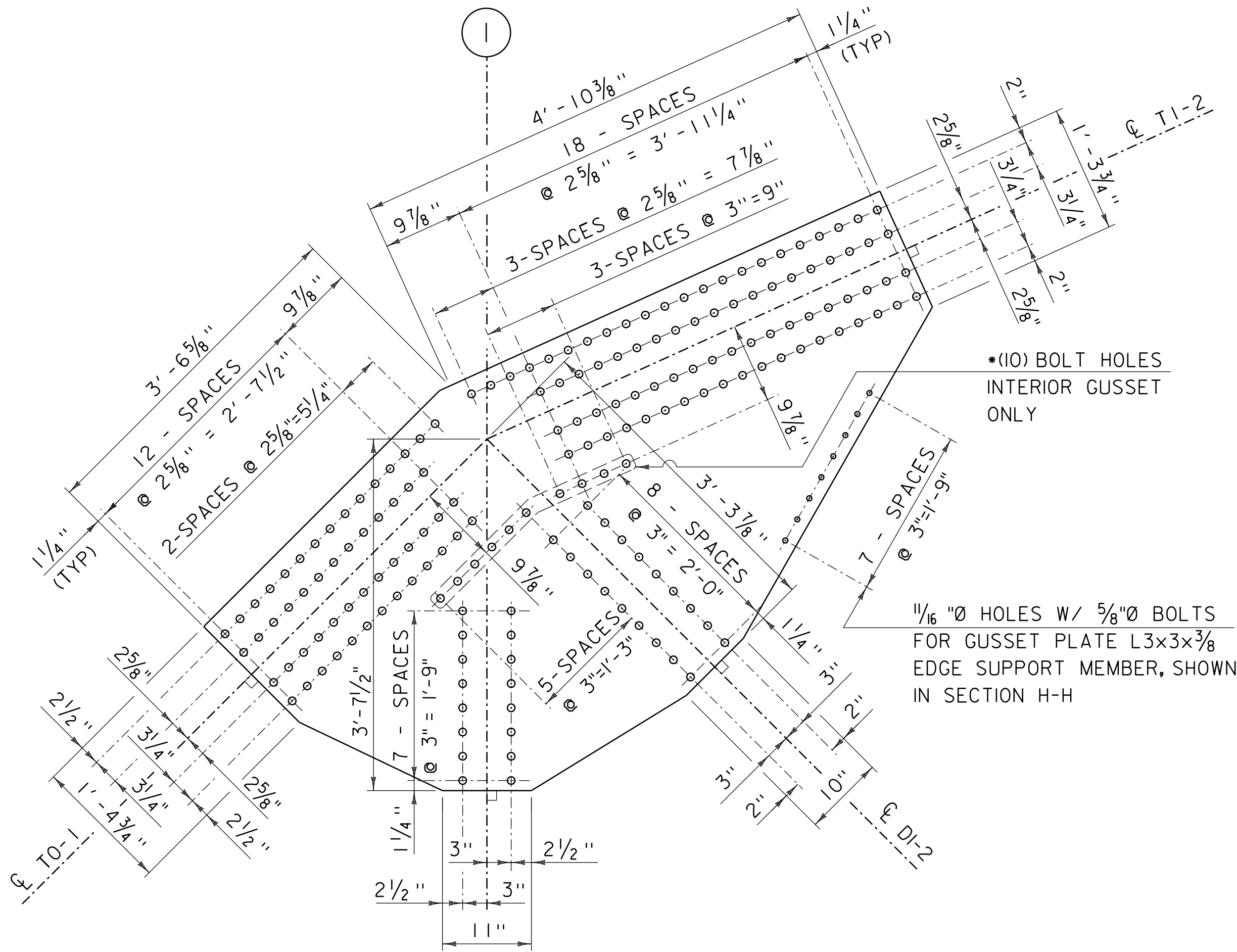
TRUSS CONNECTION & GUSSET PLATE NOTES:

1. ALL BOLTS SHALL BE $\frac{7}{8}$ " DIA. W/ HEAVY HEX NUT AND WASHER, UNLESS NOTED OTHERWISE. BEVELED WASHER ON TRUSS TOP CHORD CONNECTIONS SHALL BE SQUARE. BOLT HOLES SHALL BE $\frac{1}{16}$ " DIA. UNLESS NOTED OTHERWISE. PUNCHING OF HOLES SHALL NOT BE PERMITTED. ALL BOLT THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANE.
2. BOTTOM CHORD GUSSET PLATES ARE $\frac{3}{4}$ " GALVANIZED STEEL PLATE, CONFORMING TO SECTION 714 GRADE 50, UNLESS NOTED OTHERWISE.
3. TOP CHORD GUSSET PLATES ARE $\frac{3}{4}$ " GALVANIZED STEEL PLATE, AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W, UNLESS NOTED OTHERWISE.
4. MINIMUM EDGE DISTANCE FROM ANY BOLT HOLE CENTER POINT IS 1.25" UNLESS NOTED OTHERWISE ON GUSSET PLATE OR CONNECTION DETAILS. STANDARD BOLT SPACING IS 3" UNLESS NOTED OTHERWISE.
5. THERE ARE A TOTAL OF (8) GUSSET PLATES FOR EACH DETAIL SHOWN, ONE INTERIOR AND ONE EXTERIOR FOR EACH END OF EACH TRUSS. BOLT PATTERN FOR INTERIOR AND EXTERIOR GUSSET PLATES VARY, SEE GUSSET PLATE DETAILS FOR VARIATIONS (*).
6. GUSSET PLATE CONNECTION BOLTS SHALL HAVE THEIR WASHER AND NUT INSTALLED ON THE INTERNAL SIDE OF EACH TRUSS CONNECTION. BOLT HEADS ARE TO BE PLACED ON THE VISIBLE, EXTERNAL FASCIA OF THE TRUSS GUSSET PLATE CONNECTIONS.
7. ALL PRIMARY TRUSS MEMBER GUSSET PLATES WILL BE (CVN) EXCEPT FOR BOTTOM CHORD GUSSET PLATES, WHICH SHALL BE DESIGNATED (FCM).
8. NO FIELD DRILLING, REAMING, OR CUTTING OF TRUSS OR CONNECTION MEMBERS. TRUSS AND CONNECTION MEMBERS MUST BE SHOP GALVANIZED, NO FIELD GALVANIZING PERMITTED.
9. SEE STRUCTURAL STEEL SECTION OF GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



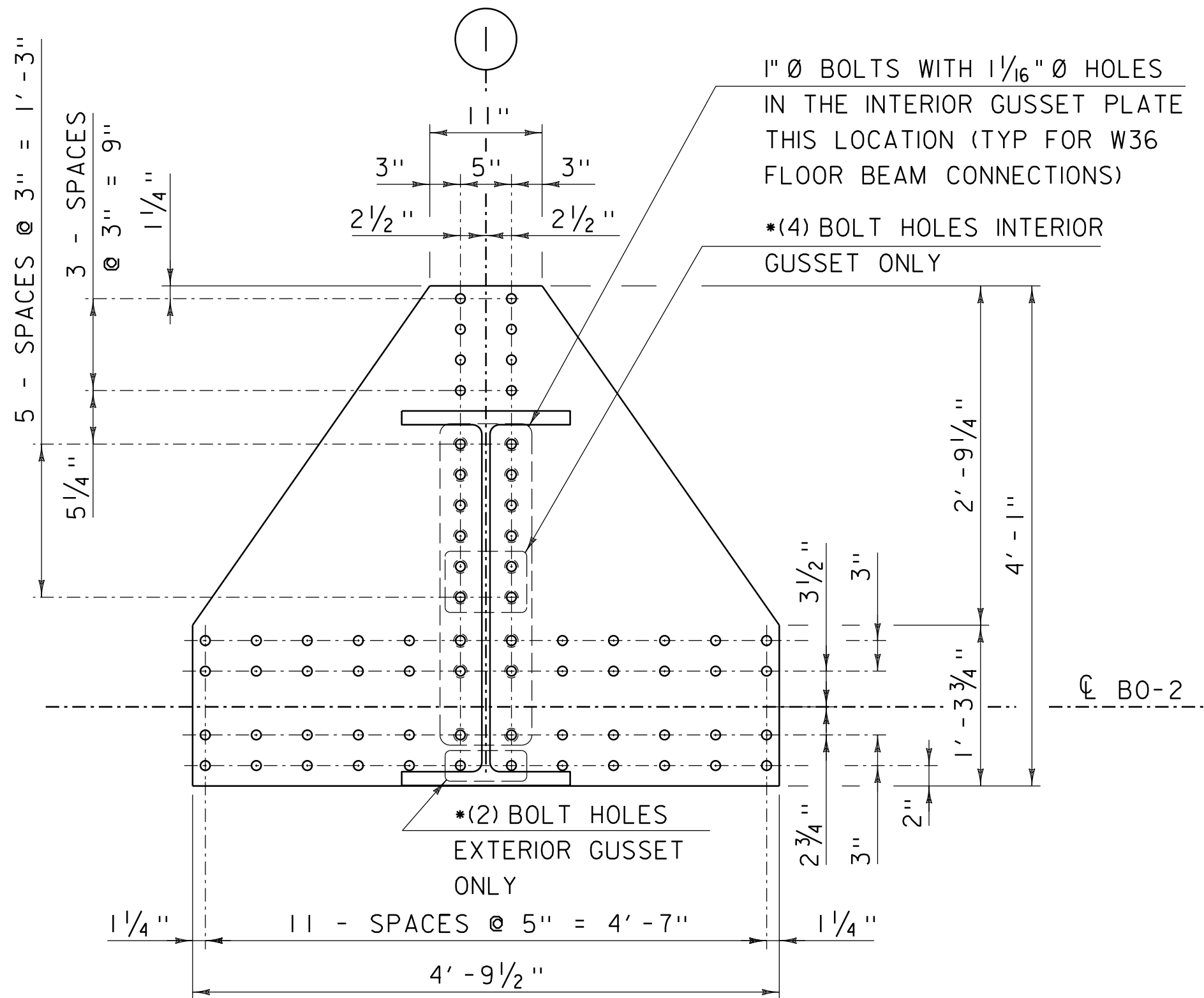
GUSSET PLATE DETAIL G0 BOTTOM

SCALE 1" = 1'-0"



GUSSET PLATE DETAIL G1 TOP

SCALE 1" = 1'-0"



GUSSET PLATE DETAIL G1 BOTTOM

SCALE 1" = 1'-0"

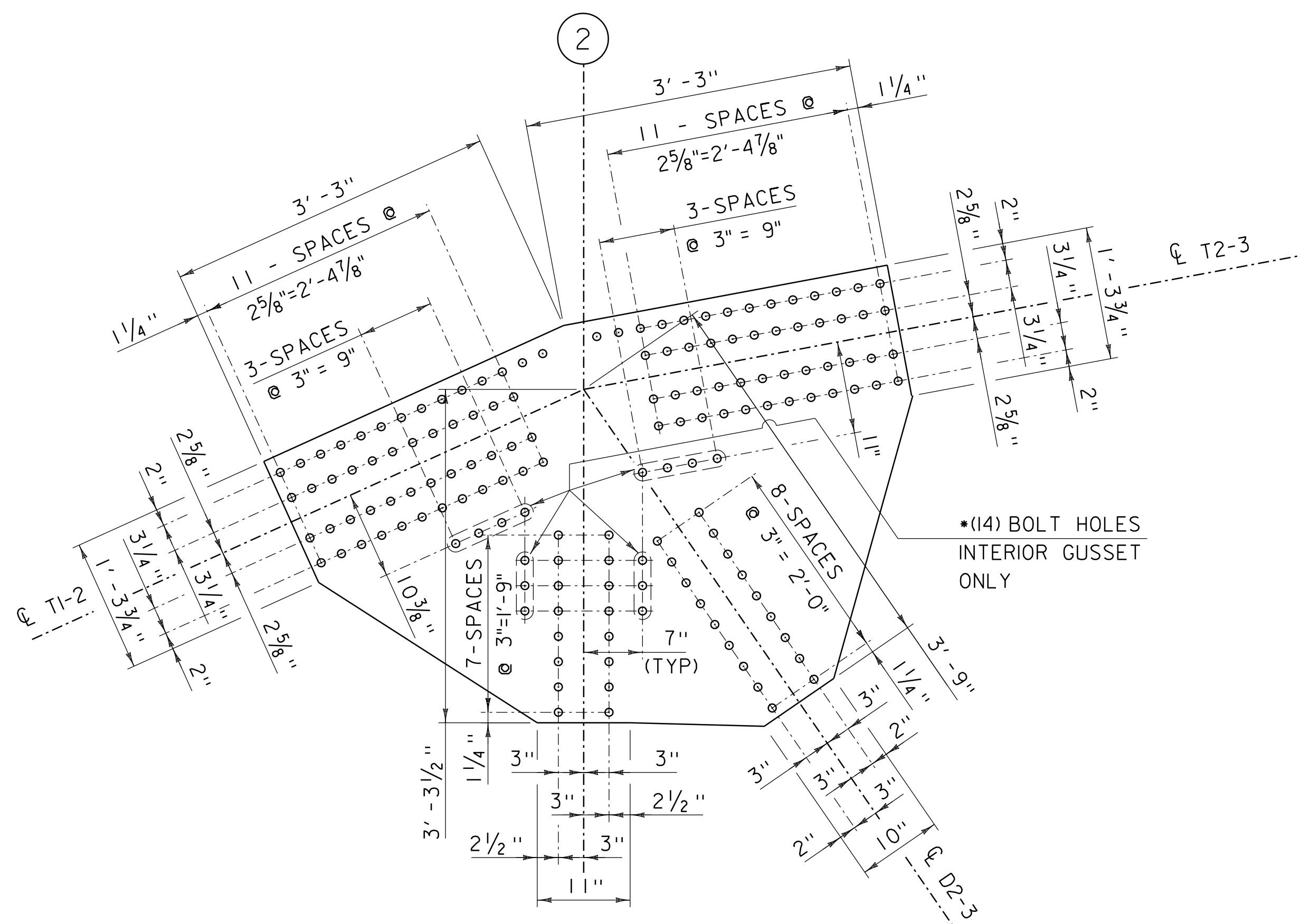
TRUSS STEEL MATERIAL SPECIFICATION NOTES:

1. ALL STANDARD W-SHAPE ROLLED STEEL PRODUCTS SHALL CONFORM TO SECTION 714 GRADE 50, WITH NO EXCEPTIONS.
2. ALL PLATE PRODUCTS USED IN THE TRUSS SHALL CONFORM TO SECTION 714 GRADE 50, WITH THE FOLLOWING EXCEPTIONS:
 - a. TOP CHORD GUSSET PLATES SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W.
 - b. END FLOORBEAM PLATE GIRDER SHALL BE AASHTO M270 HIGH PERFORMANCE STEEL, GRADE HPS 70W.
3. ALL SINGLE AND DOUBLE LEG ANGLE STANDARD ROLLED SHAPES SHALL CONFORM TO SECTION 714 GRADE 36, WITH THE FOLLOWING EXCEPTION:
 - a. END FLOORBEAM CONNECTION ANGLES SHALL CONFORM TO SECTION 714 GRADE 50.
4. SHOP DRAWINGS SHALL INDICATE DIRECTION OF ROLL ON ALL PRIMARY STRESS CARRYING MATERIAL.

FILLER PLATE NOTES:

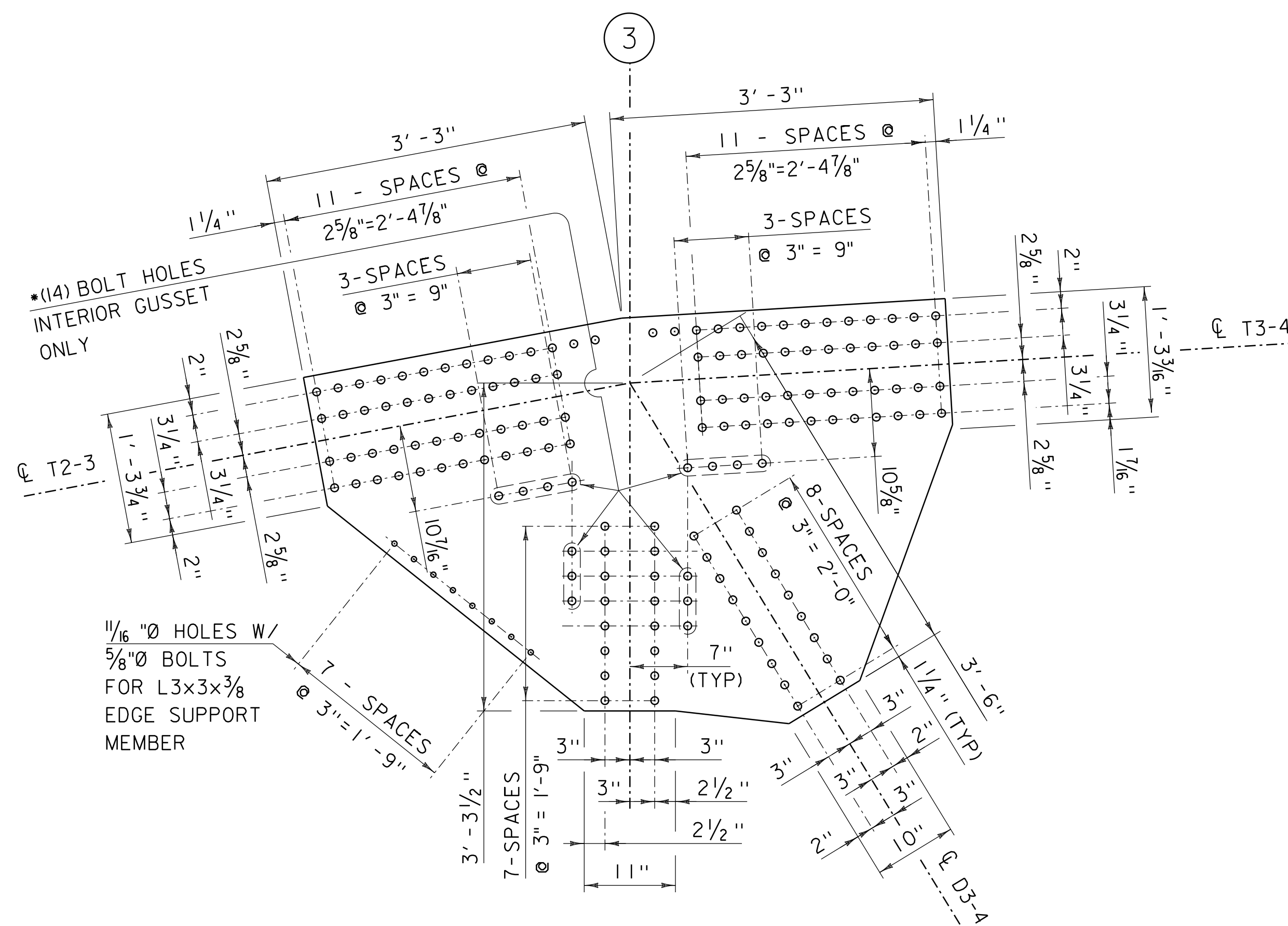
1. FILLER PLATES WILL BE SIZED SUCH THAT THEY ENGAGE ALL BOLTS THAT ARE USED IN THE CONNECTION BEING MADE. FILLER PLATES WILL HAVE BOLT EDGE AND END DISTANCES CONSISTENT WITH THOSE DISTANCES SPECIFIED FOR THE GUSSET PLATES.
2. FINAL FILLER PLATE THICKNESSES WILL BE SUCH AS ARE DETERMINED NECESSARY BY THE FABRICATOR FOR THE PURPOSE OF MAKING CONNECTIONS FIT PROPERLY. WHERE FILLER PLATES ARE REQUIRED THEY SHALL BE A SINGLE THICKNESS PLATE.
3. FABRICATION TOLERANCES WILL BE AS SPECIFIED IN THE CURRENT FABRICATION/WELDING CODES FOR STEEL PLATE PRODUCTS.
4. FILLER PLATES SHALL CONFORM TO SECTION 714 GRADE 50 AND WILL BE GALVANIZED. THEY WILL USE THE SAME MATERIAL AND GALVANIZING SPECIFICATION USED FOR THE PRIMARY TRUSS MEMBERS.

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161truss.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TRUSS CONNECTION DETAIL SHEET 1	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	40 OF 100



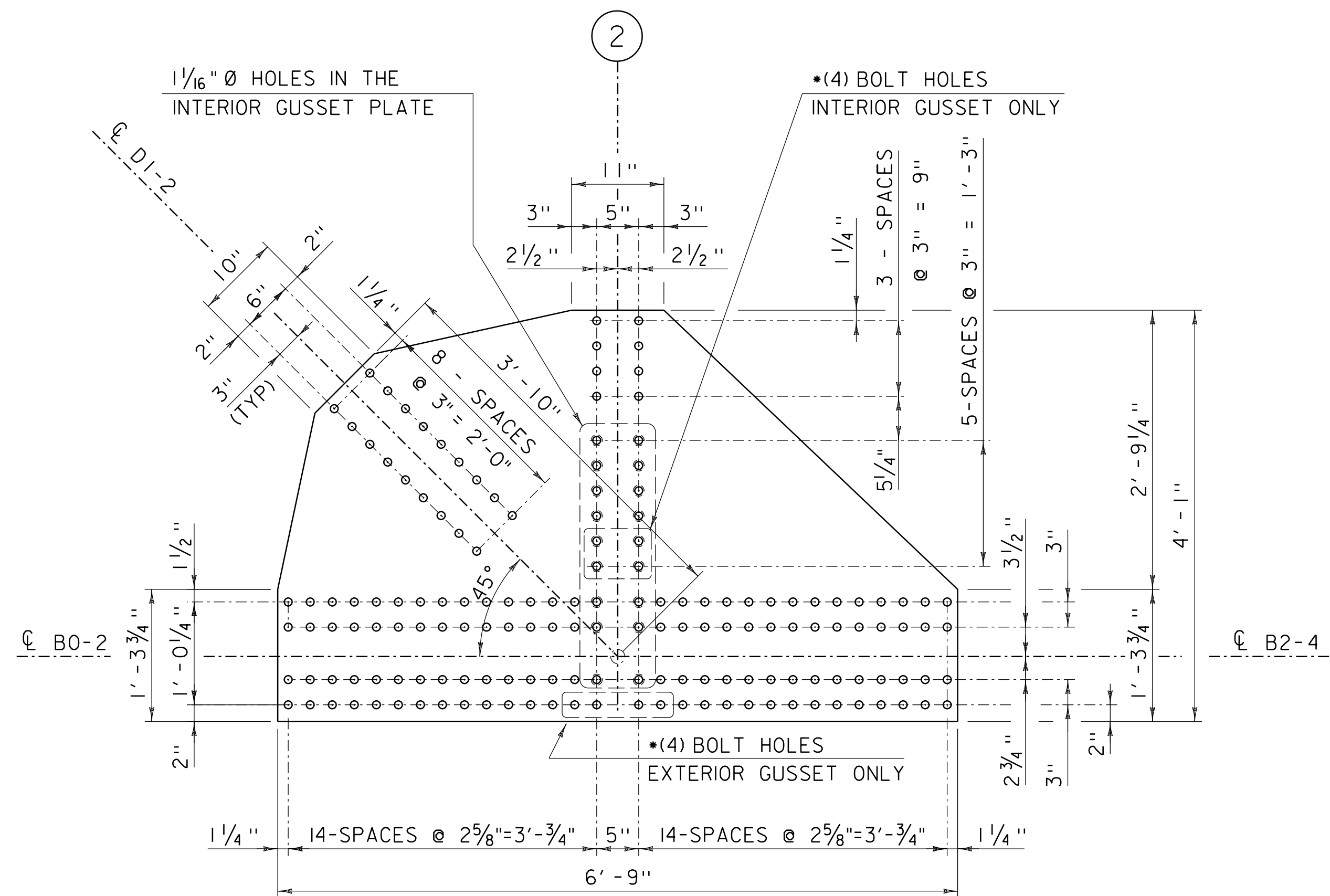
GUSSET PLATE DETAIL G2 TOP

SCALE 1" = 1'-0"



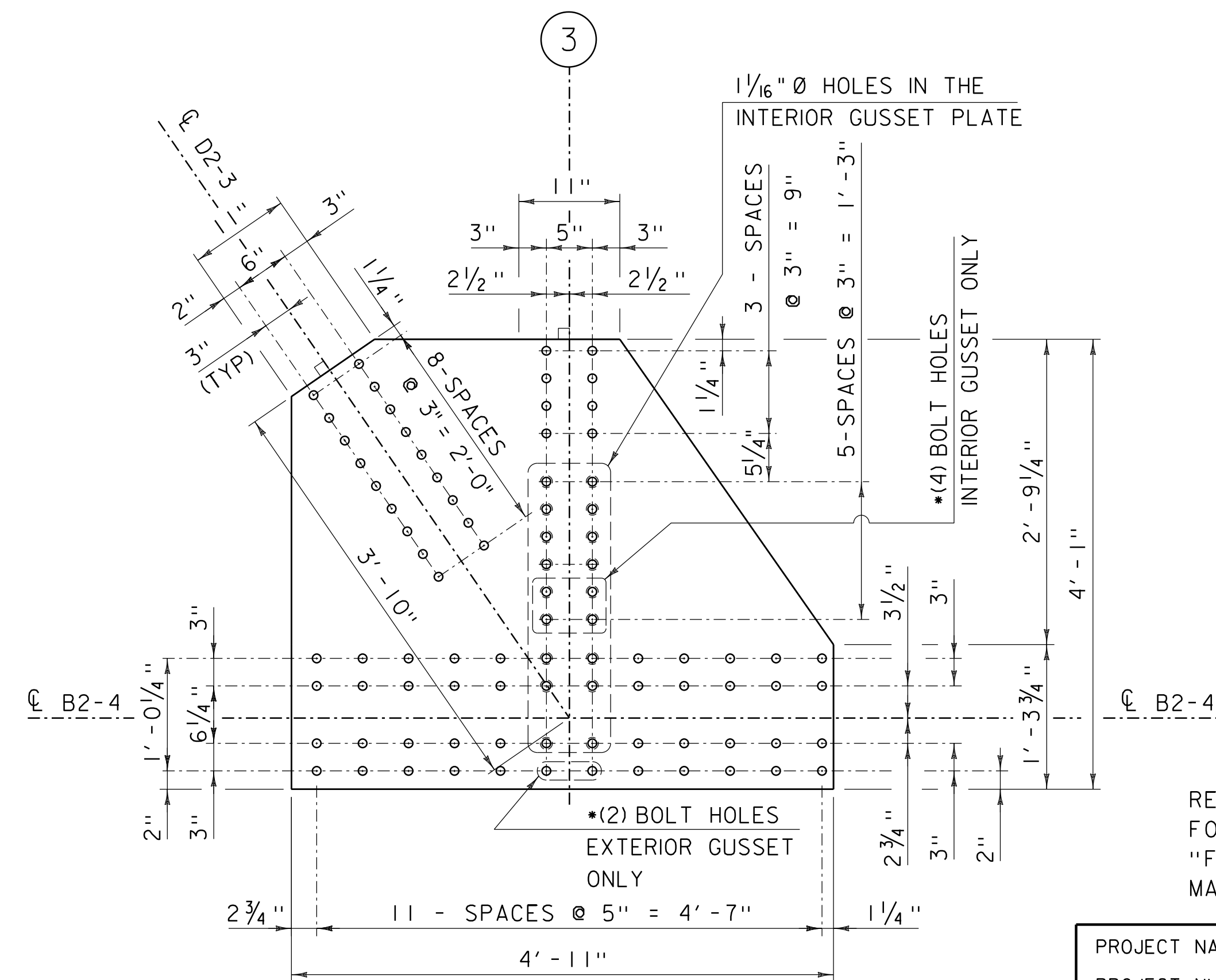
GUSSET PLATE DETAIL G3 TOP

SCALE 1" = 1'-0"



GUSSET PLATE DETAIL G2 BOTTOM

SCALE 1" = 1'-0"

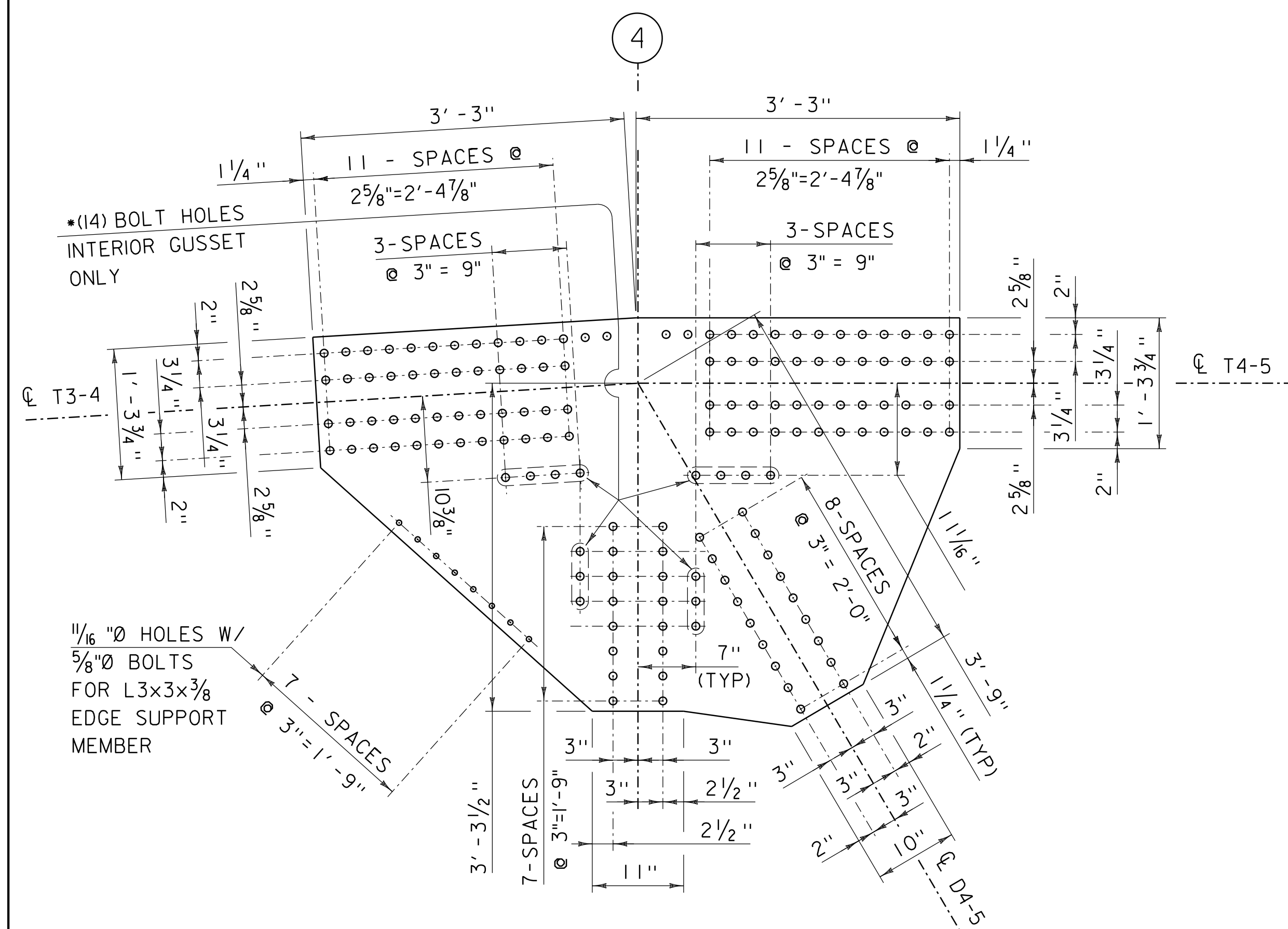


GUSSET PLATE DETAIL G3 BOTTOM

SCALE 1" = 1'-0"

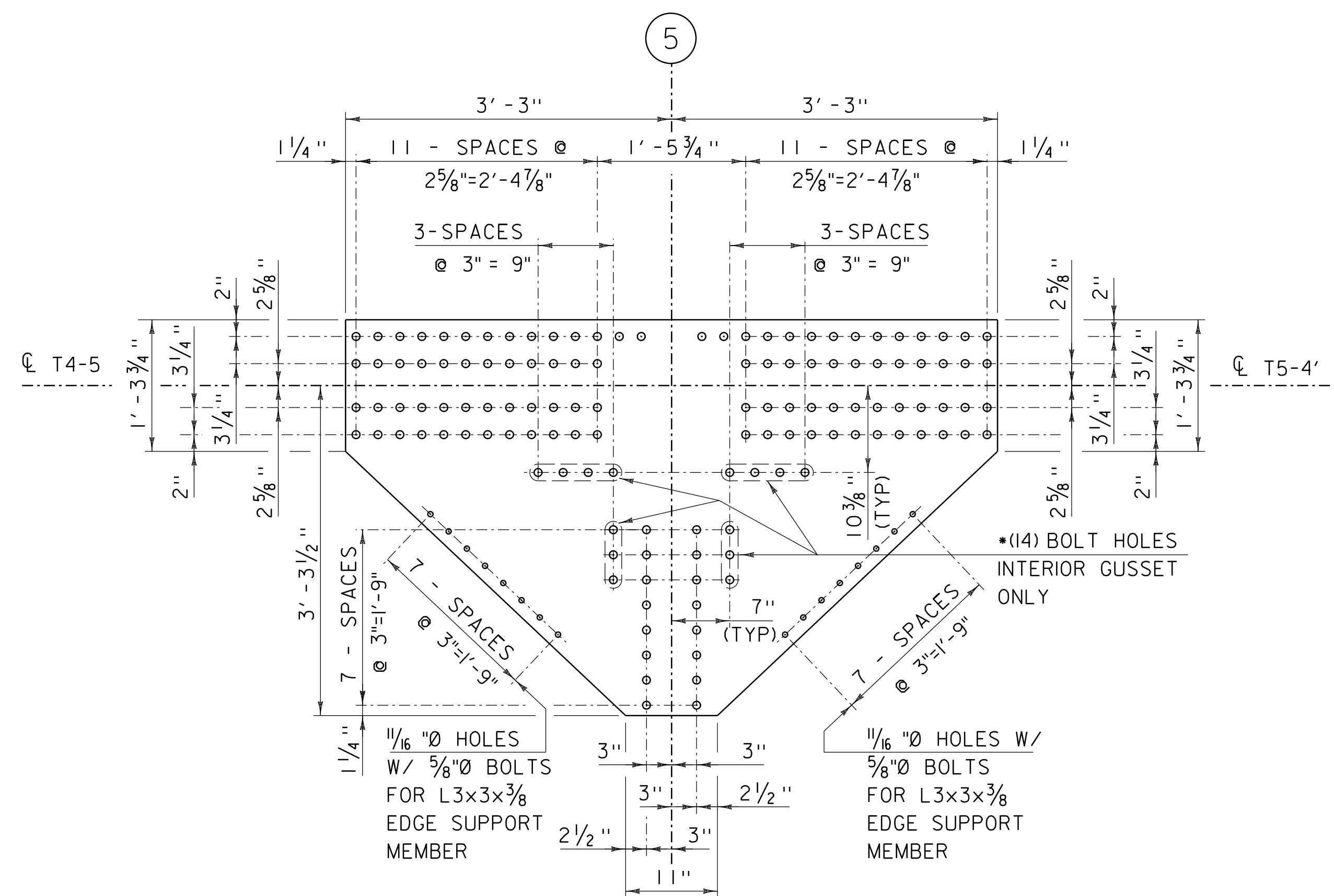
REFER TO TRUSS CONNECTION DETAIL SHEET 1 FOR "TRUSS CONNECTION & GUSSET PLATE NOTES", "FILLER PLATE NOTES", AND "TRUSS STEEL MATERIAL SPECIFICATION NOTES".

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161truss.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TRUSS CONNECTION DETAIL SHEET 2	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	41 OF 100



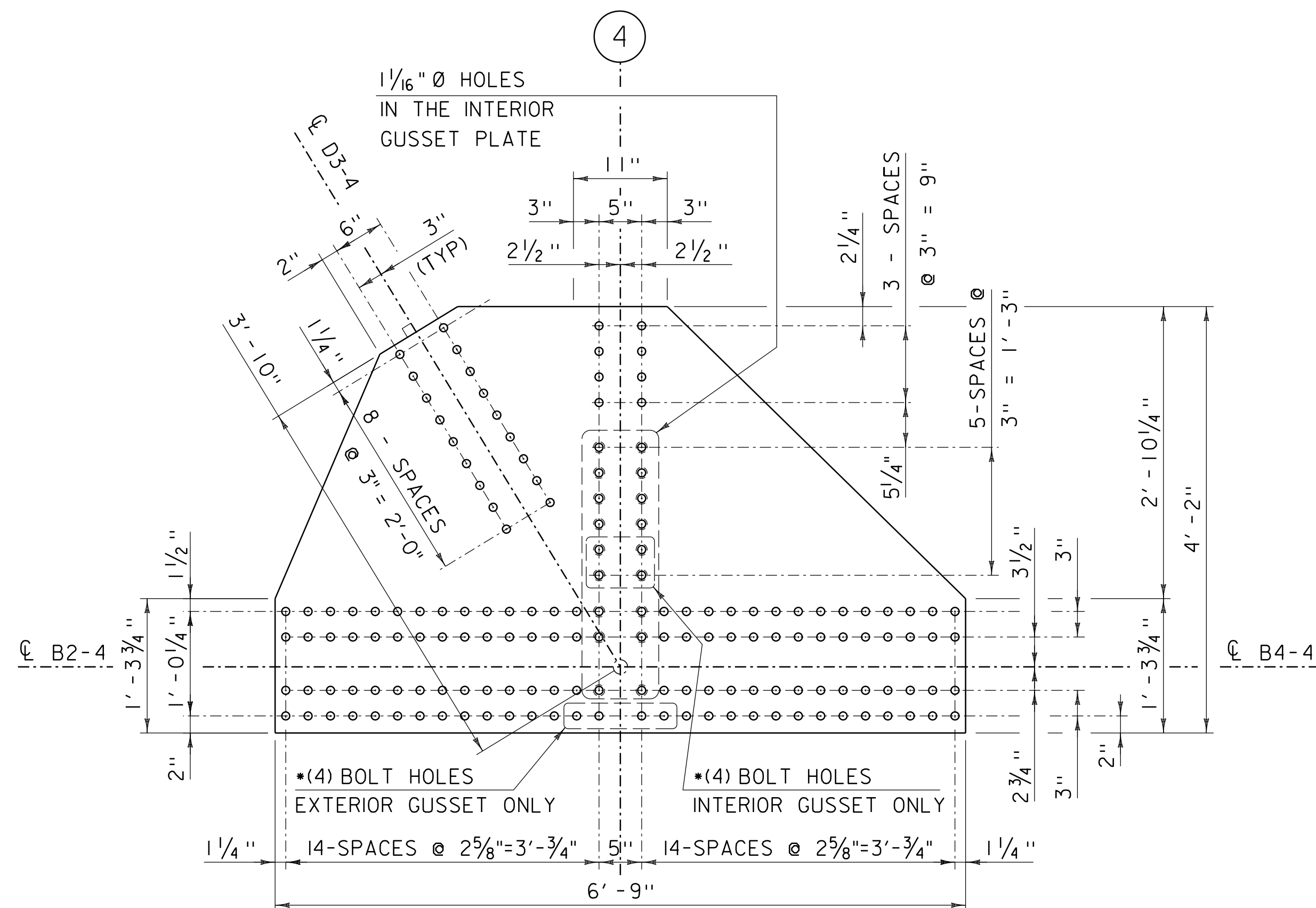
GUSSET PLATE DETAIL G4 TOP

SCALE 1" = 1'-0"



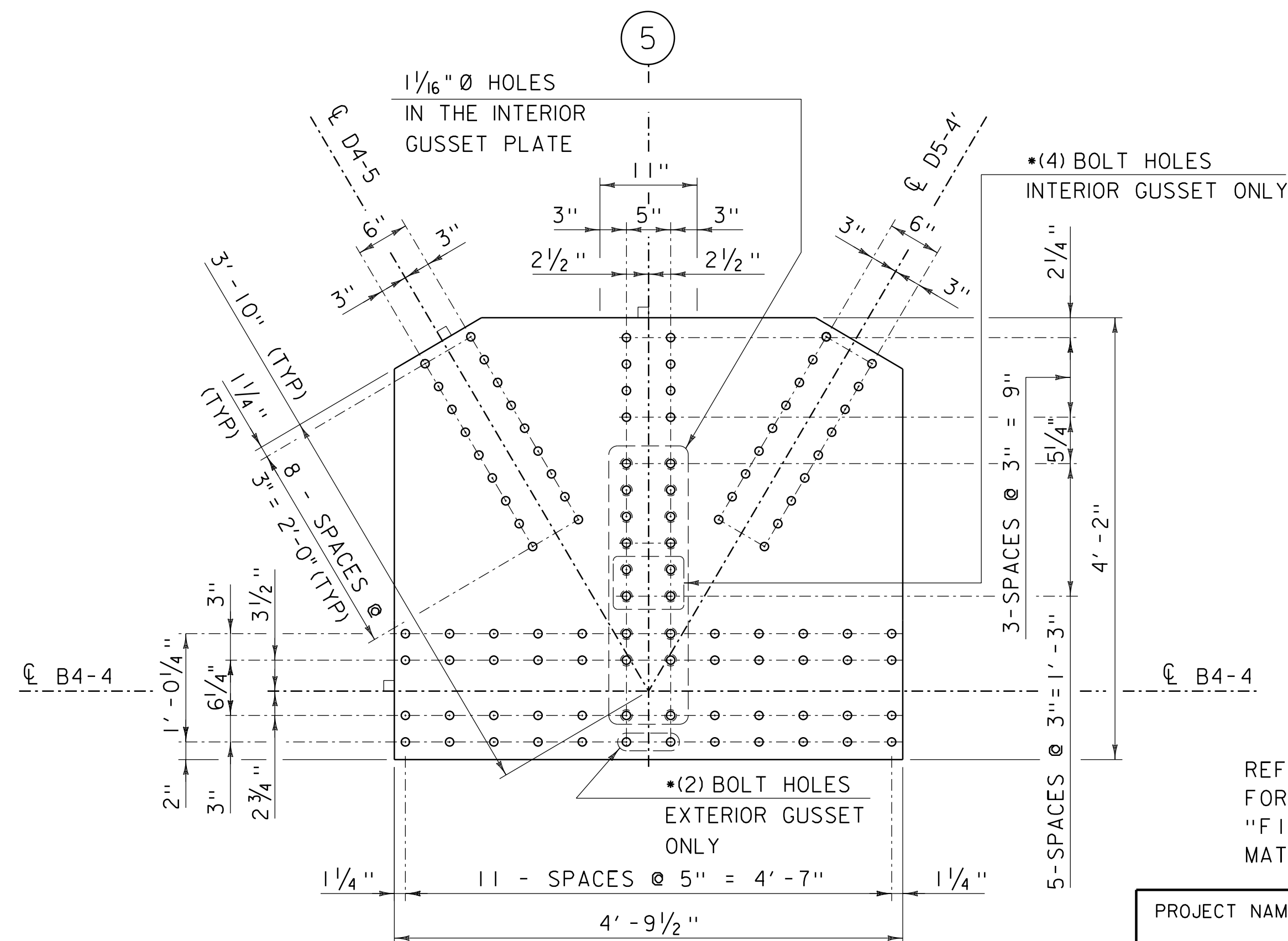
GUSSET PLATE DETAIL G5 TOP

SCALE 1" = 1'-0"



GUSSET PLATE DETAIL G4 BOTTOM

SCALE 1" = 1'-0"

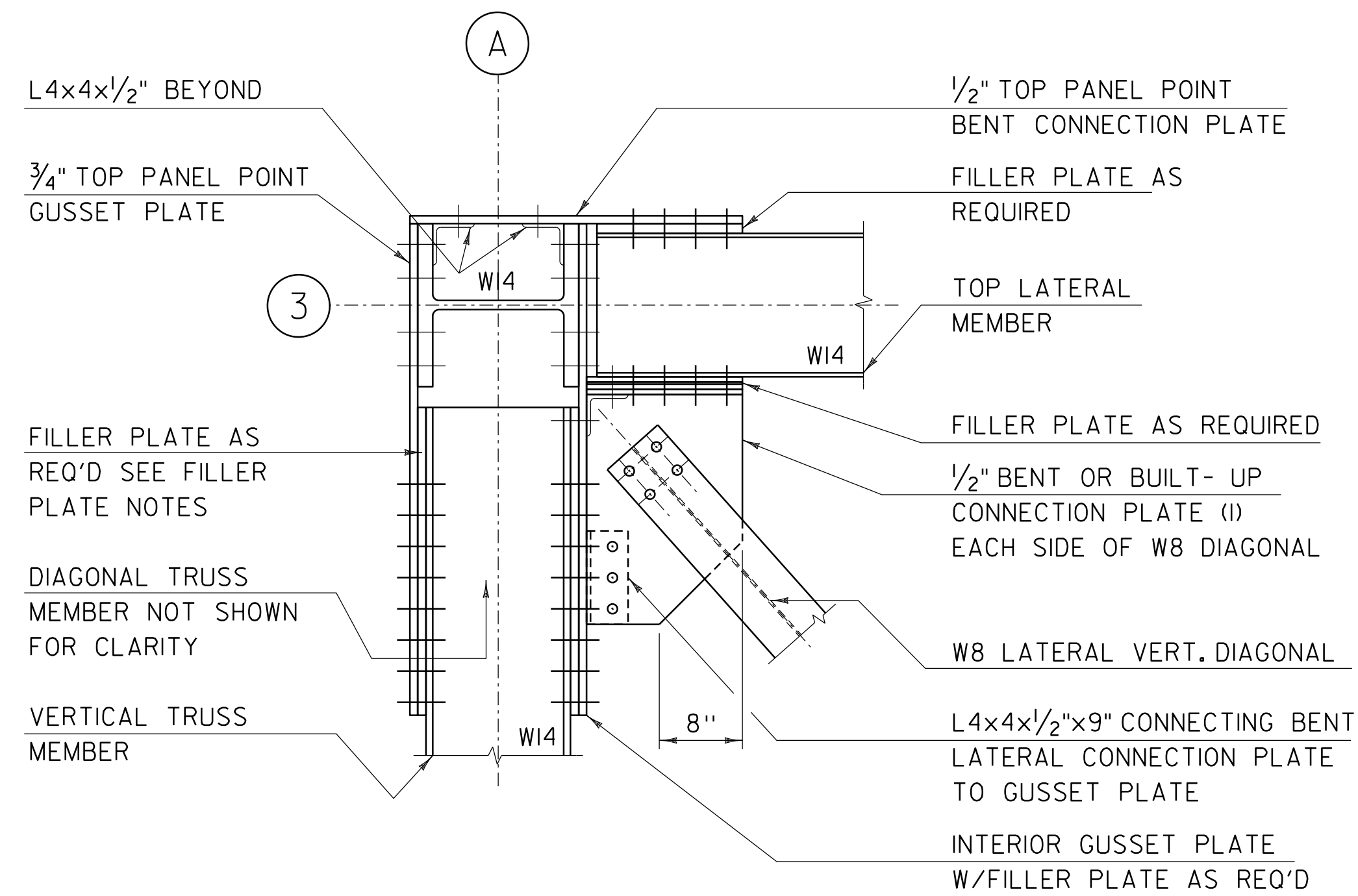


GUSSET PLATE DETAIL G5 BOTTOM

SCALE 1" = 1'-0"

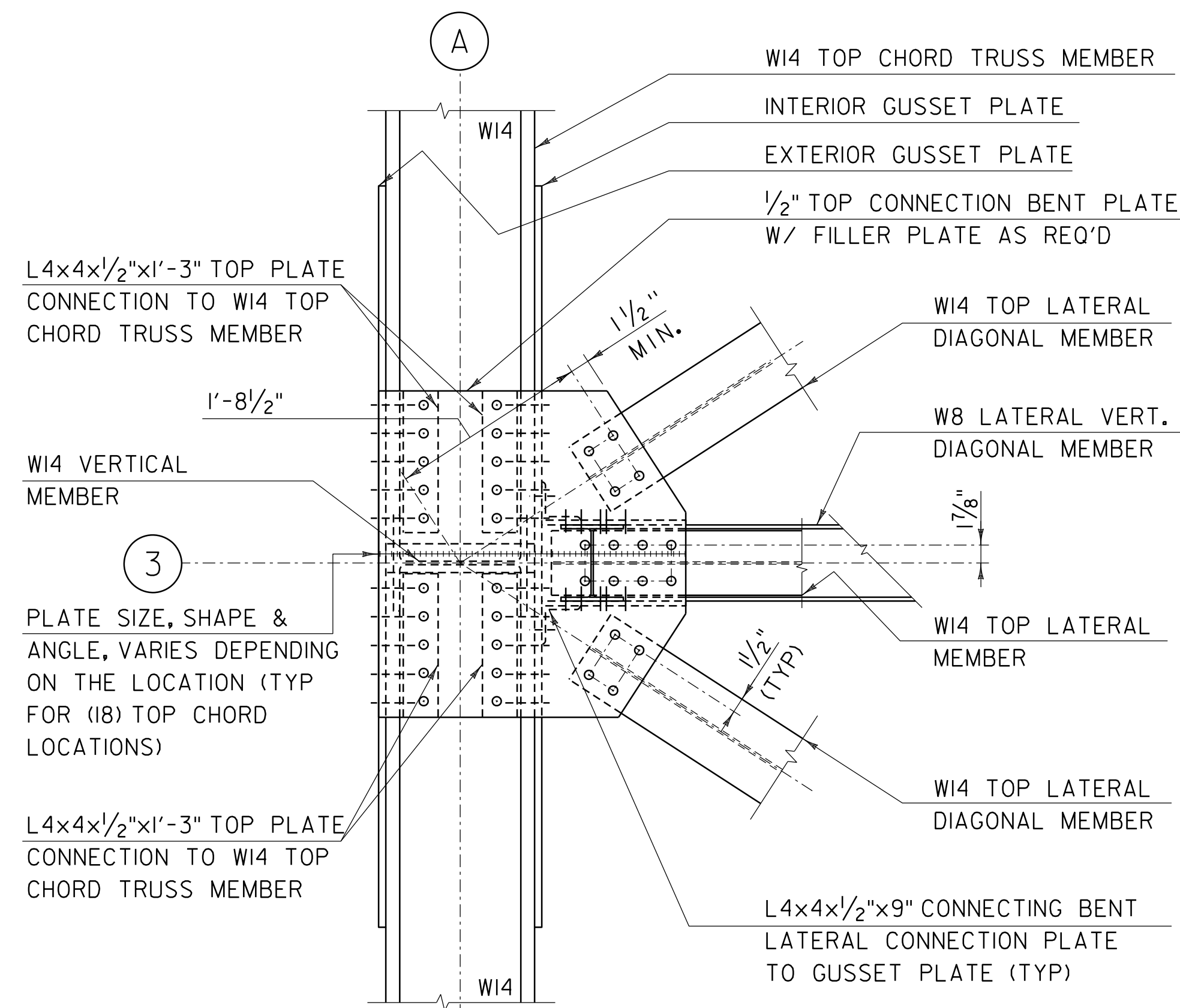
REFER TO TRUSS CONNECTION DETAIL SHEET 1 FOR "TRUSS CONNECTION & GUSSET PLATE NOTES", "FILLER PLATE NOTES", AND "TRUSS STEEL MATERIAL SPECIFICATION NOTES".

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161truss.dgn
PROJECT LEADER:	G.H.K.
DESIGNED BY:	A.B.C.
TRUSS CONNECTION DETAIL SHEET 3	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	42 OF 100



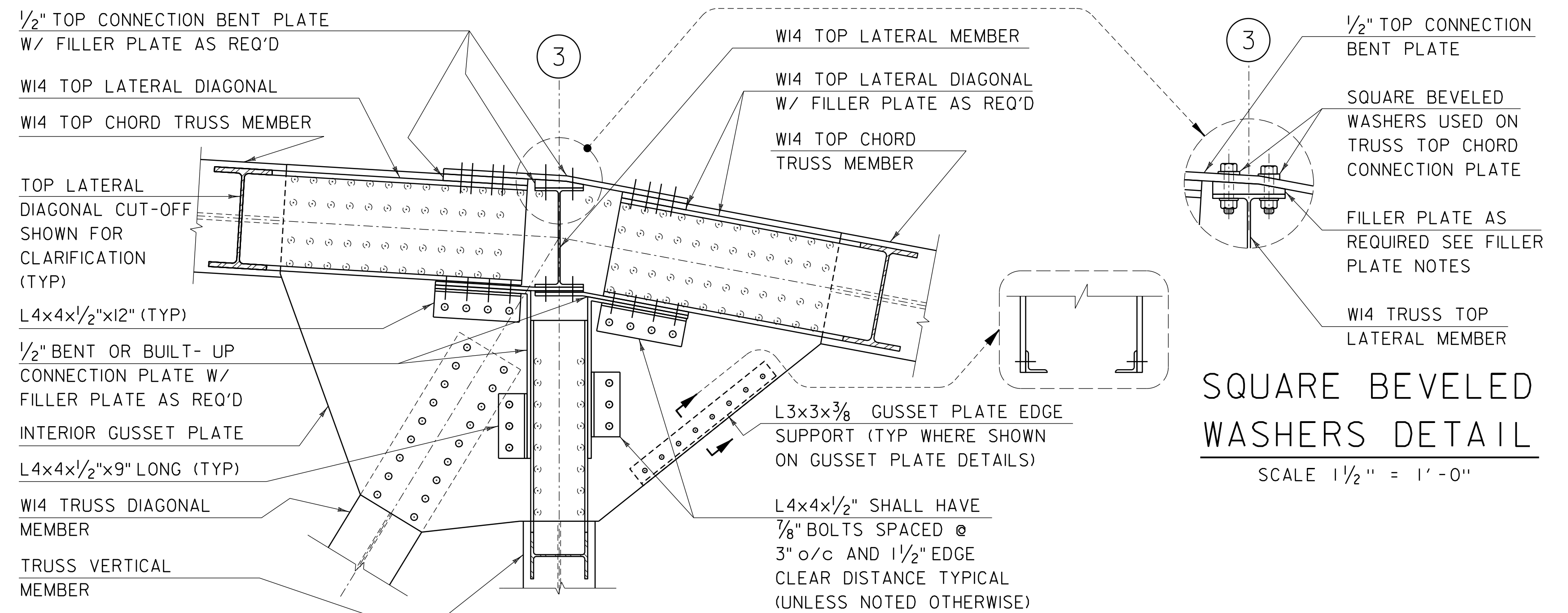
SECTION G-G TYPICAL TOP
PANEL POINT CONNECTION

SCALE 1" = 1'-0"



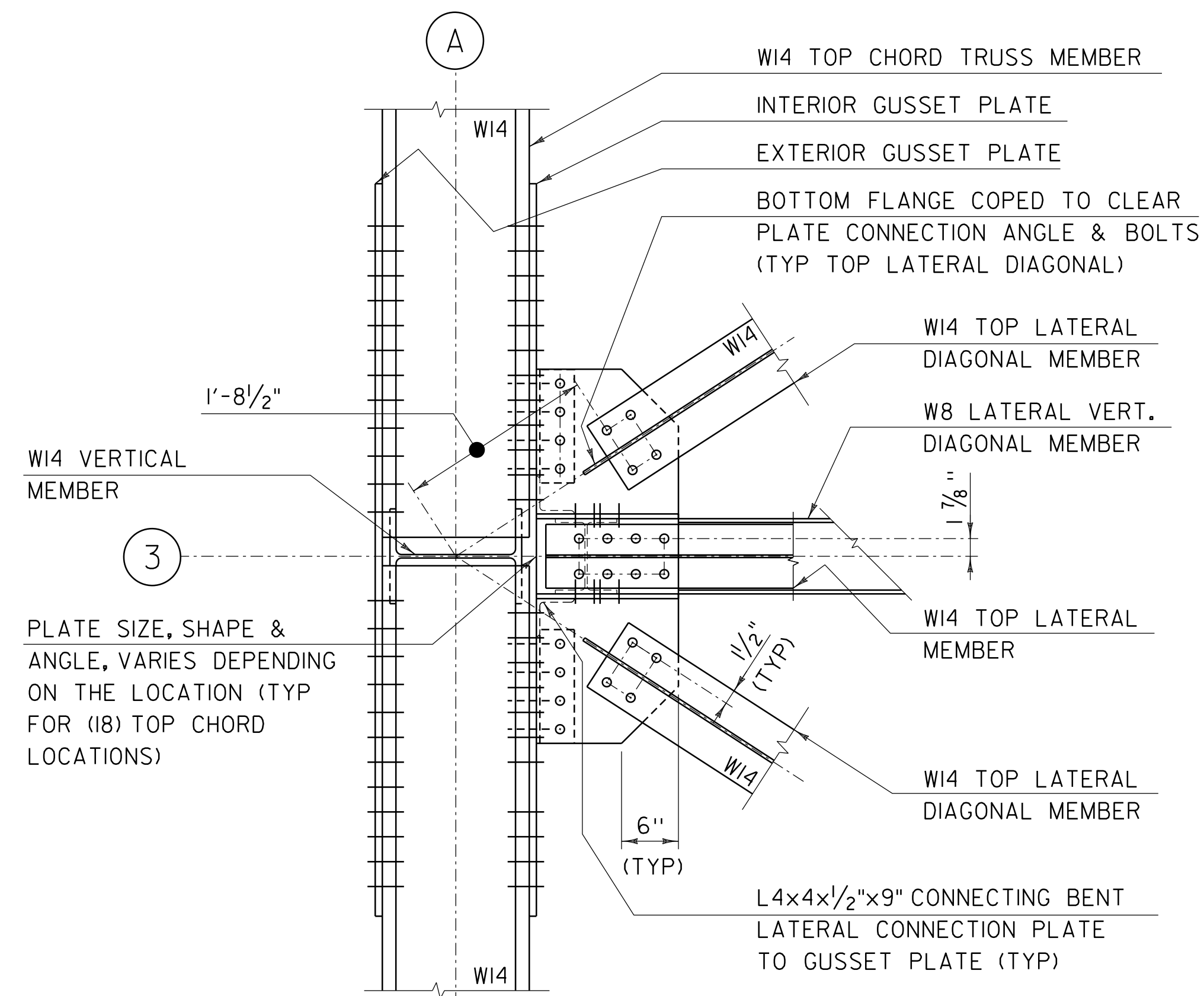
SECTION J-J TYPICAL TOP
PANEL POINT CONNECTION

SCALE 1" = 1'-0"



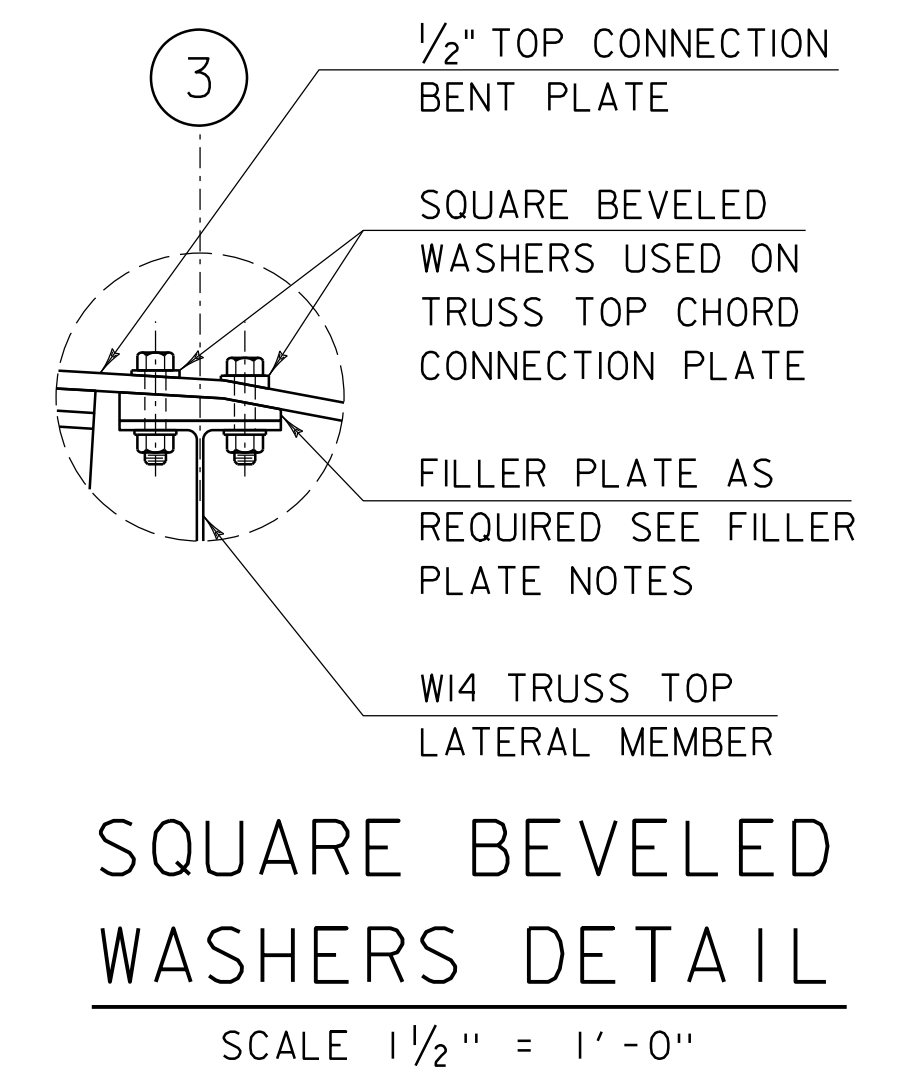
SECTION H-H TYPICAL TOP
PANEL POINT CONNECTION

SCALE 1" = 1'-0"



SECTION K-K TYPICAL TOP
PANEL POINT CONNECTION

SCALE 1" = 1'-0"

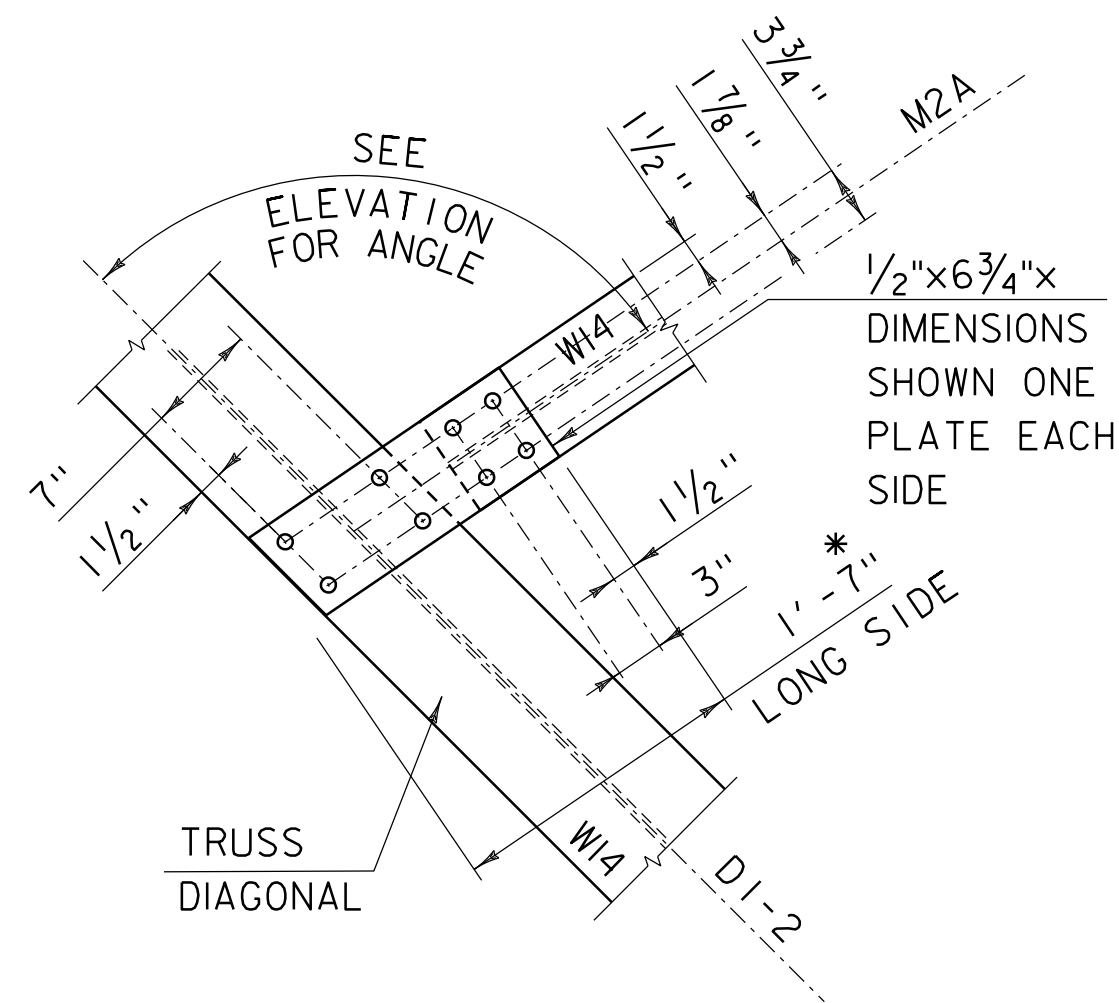


SQUARE BEVELED
WASHERS DETAIL

SCALE 1/2" = 1'-0"

REFER TO TRUSS CONNECTION DETAIL SHEET 1
FOR "TRUSS CONNECTION & GUSSET PLATE NOTES",
"FILLER PLATE NOTES", AND "TRUSS STEEL
MATERIAL SPECIFICATION NOTES".

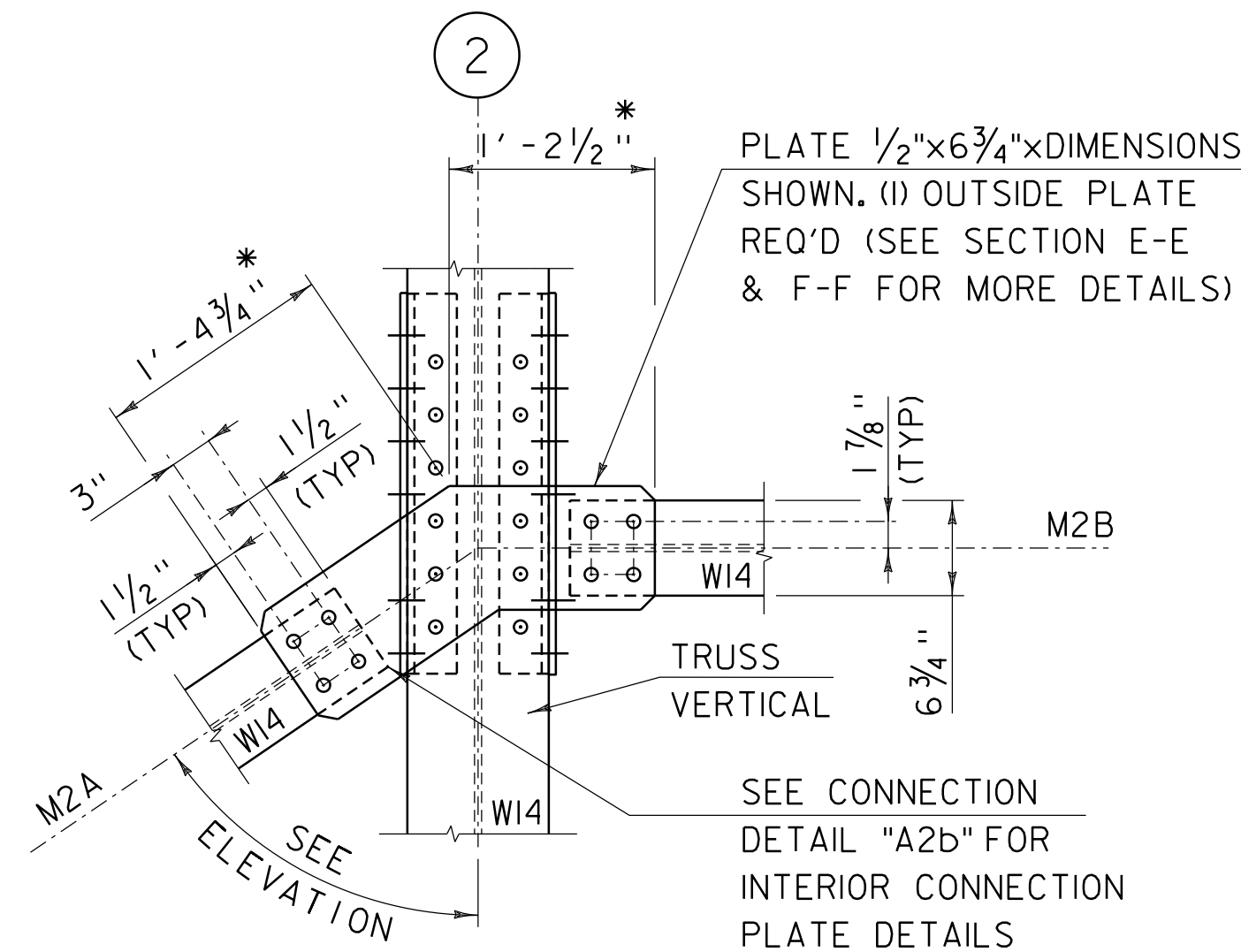
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f16ltruss.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TRUSS CONNECTION DETAIL SHEET 5	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	44 OF 100



CONNECTION DETAIL "A1"

SCALE 1" = 1'-0"

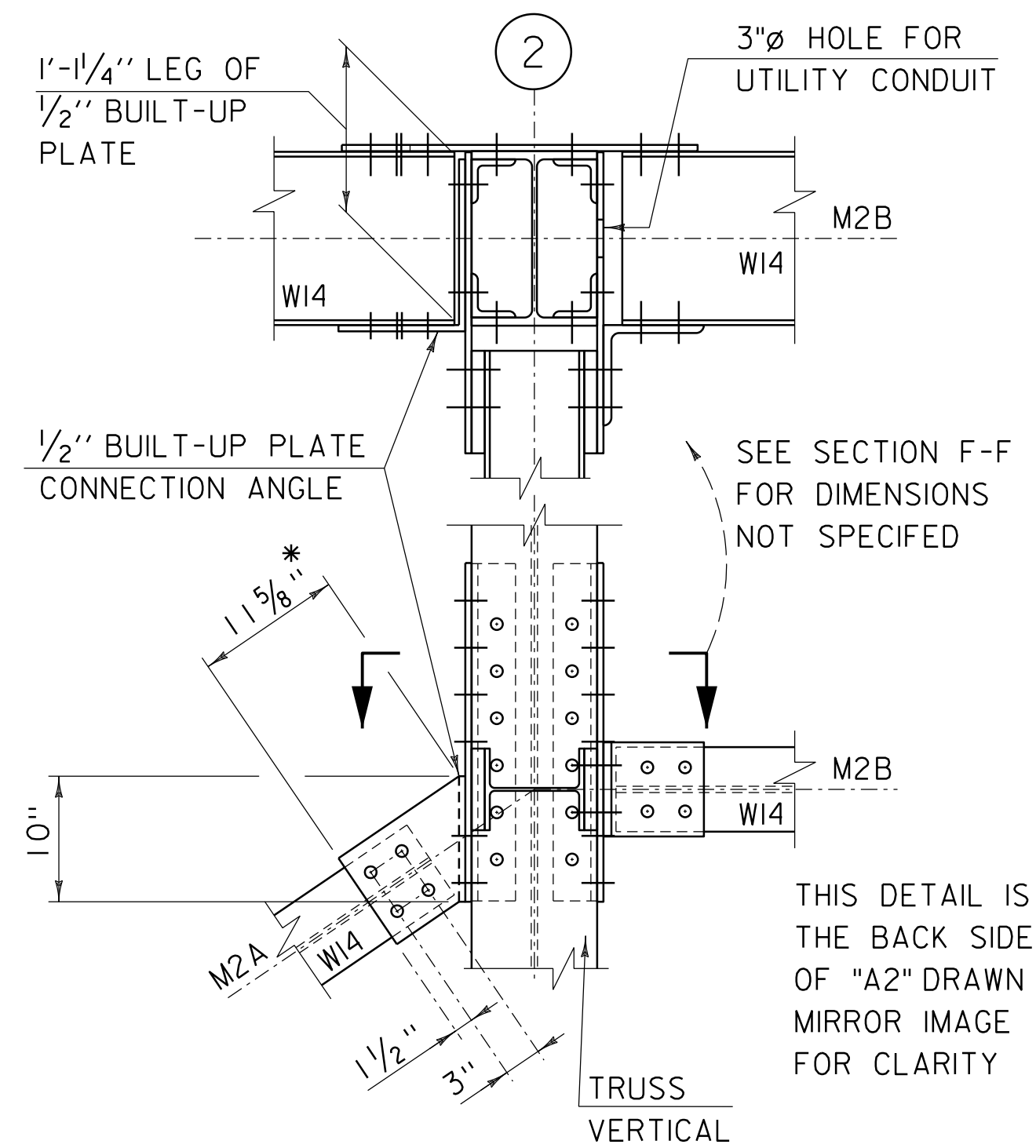
* PLATE DIMENSIONS SHOWN MAY BE ADJUSTED BY FABRICATOR TO ACHIEVE PROPER FIT AND CLEARANCE AS REQUIRED.



CONNECTION DETAIL "A2"

SCALE 1" = 1'-0"

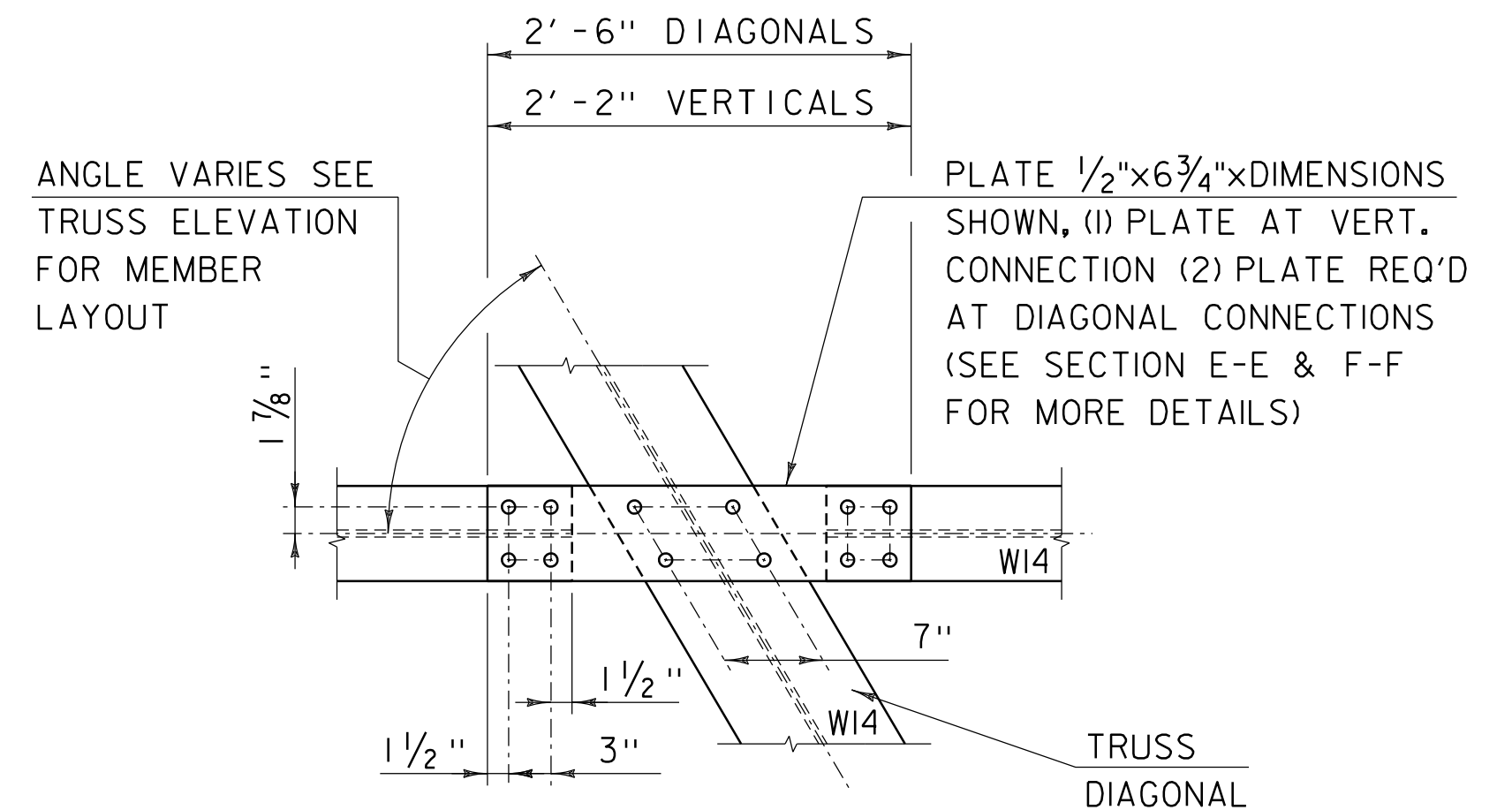
* PLATE DIMENSIONS SHOWN MAY BE ADJUSTED BY FABRICATOR TO ACHIEVE PROPER FIT AND CLEARANCE AS REQUIRED.



CONNECTION DETAIL "A2b"

SCALE 1" = 1'-0"

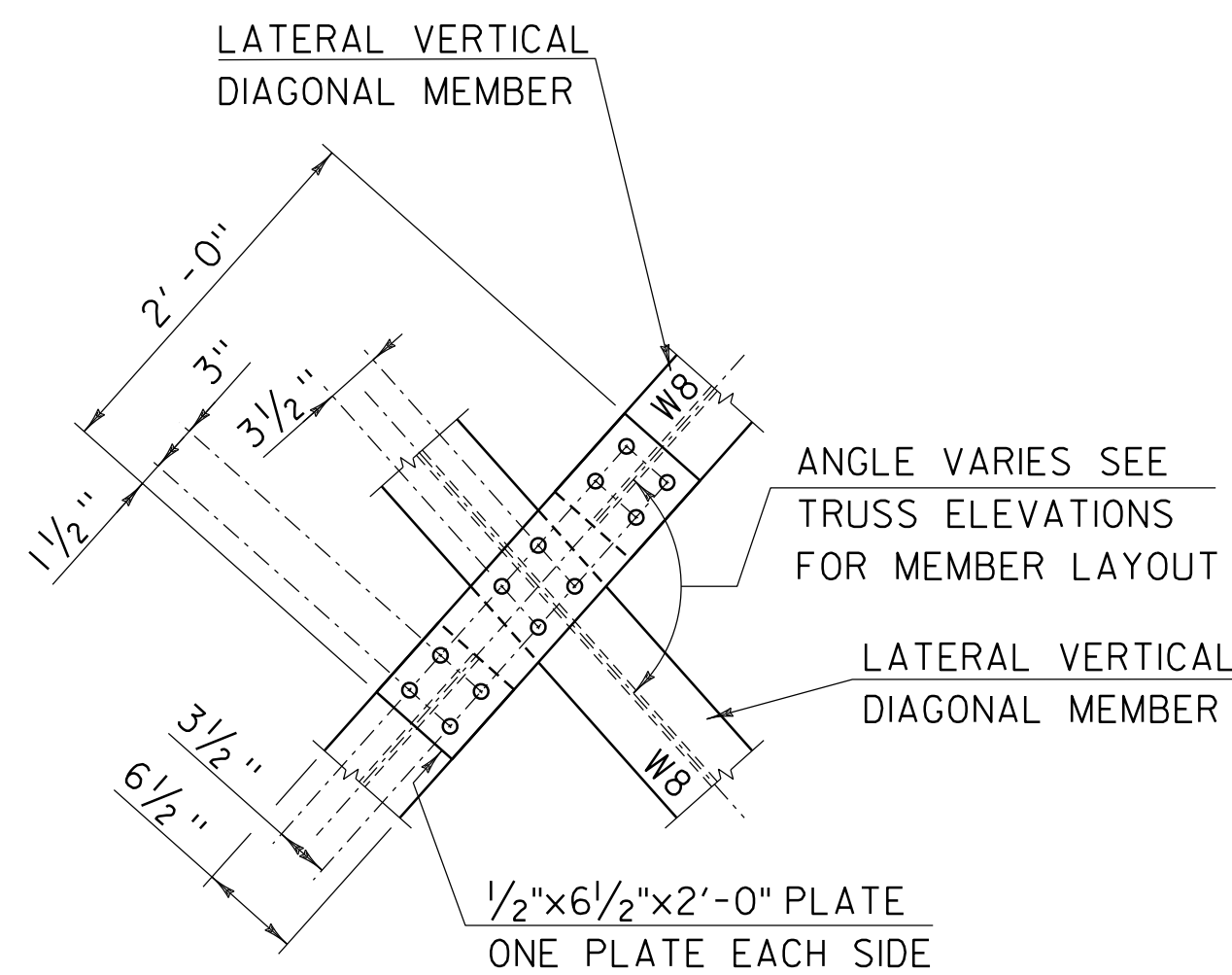
* PLATE DIMENSIONS SHOWN MAY BE ADJUSTED BY FABRICATOR TO ACHIEVE PROPER FIT AND CLEARANCE AS REQUIRED.



CONNECTION DETAIL "A3"

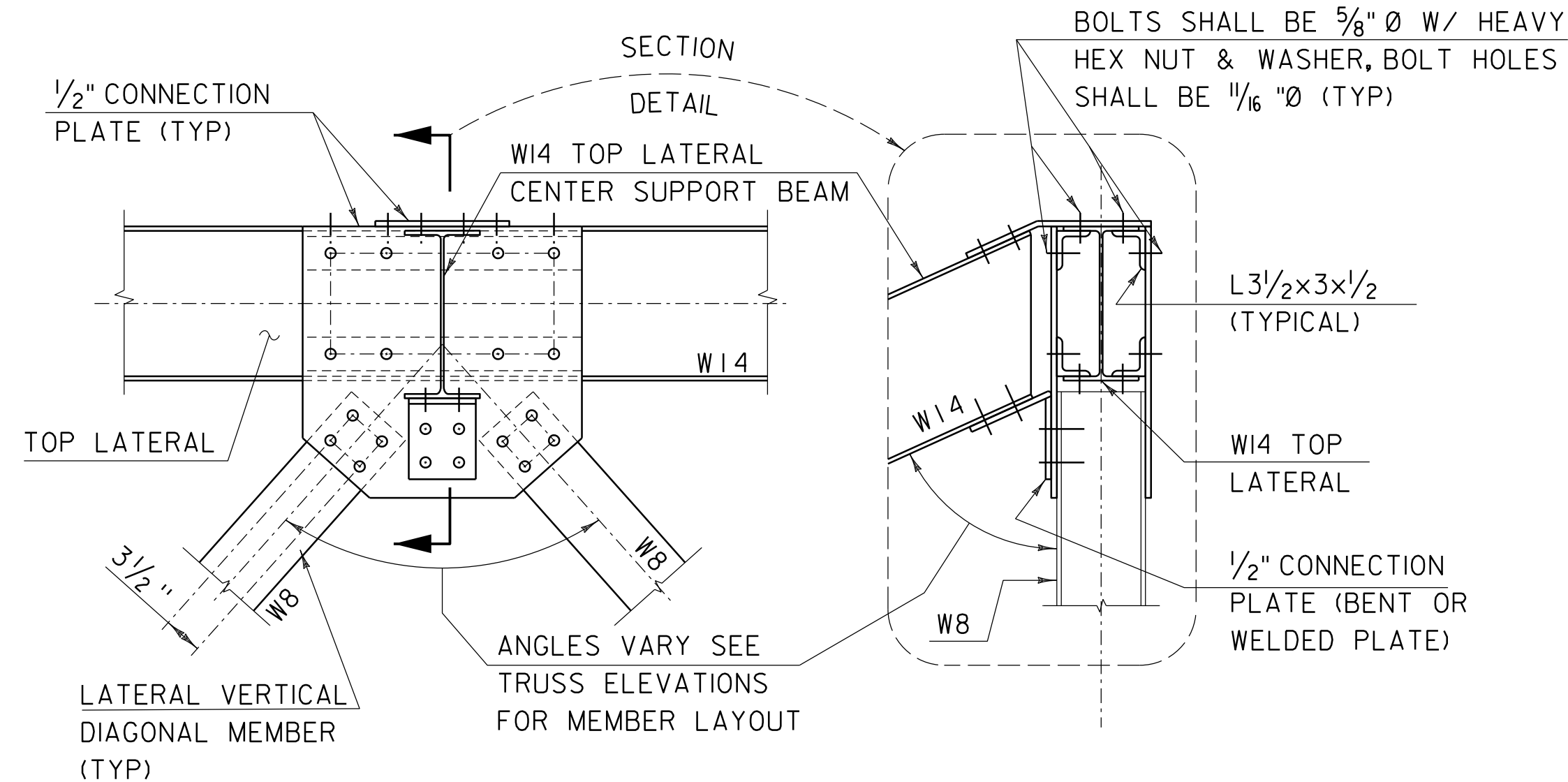
SCALE 1" = 1'-0"

THIS CONNECTION DETAIL IS SIMILAR FOR THE MIDDLE MEMBERS CONNECTION TO THE TRUSS VERTICAL AND THE TRUSS DIAGONAL MEMBERS. (DIAGONAL MEMBER CONNECTION SHOWN IN THE DETAIL)



CONNECTION DETAIL "B1"

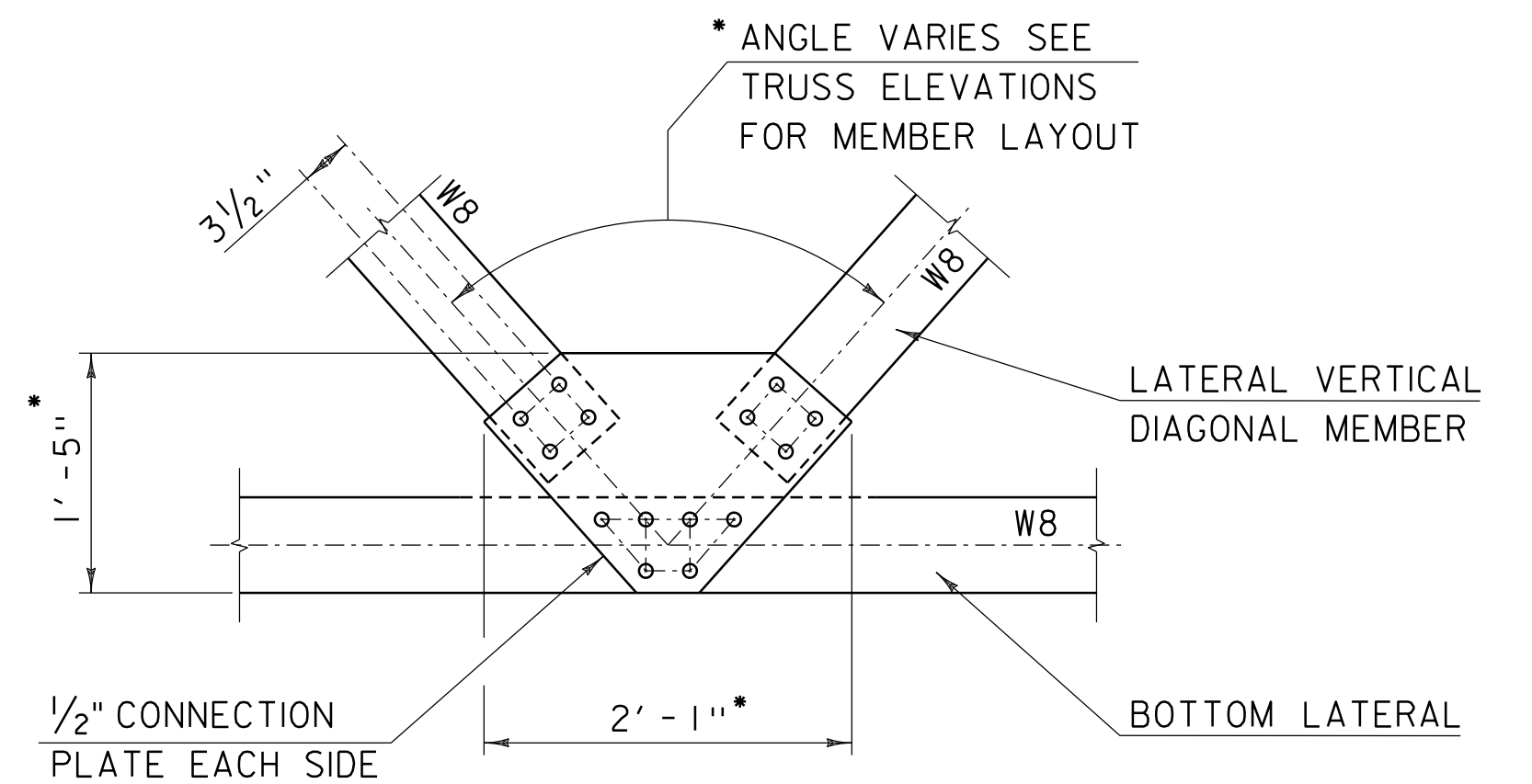
SCALE 1" = 1'-0"



CONNECTION DETAIL "B2"

SCALE 1" = 1'-0"

THIS CONNECTION DETAIL IS TYPICAL AT GRID 2,3, AND 4. THE CONNECTION PLATE IS BENT TO MATCH THE ANGLE BETWEEN THE TOP CHORD AND THE TOP FLANGE OF THE TOP LATERAL. THE W4 TOP LATERAL CENTER SUPPORT BEAM MAY BE MITERED FOR CLEARANCE AT THE BOTTOM FLANGE AS SHOWN IN THE SECTION DETAIL.



CONNECTION DETAIL "B3"

SCALE 1" = 1'-0"

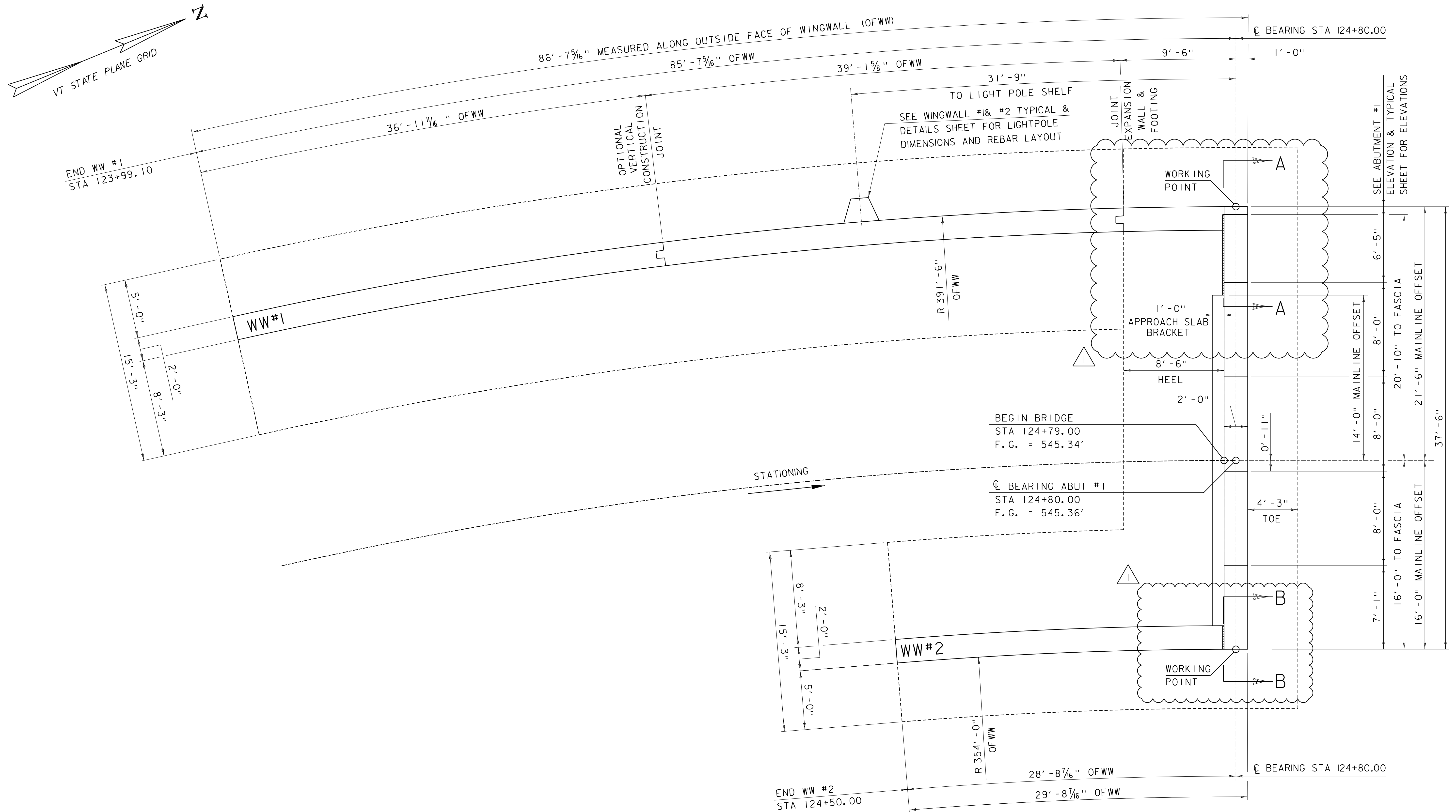
* PLATE DIMENSIONS SHOWN MAY BE ADJUSTED BY FABRICATOR TO ACHIEVE PROPER FIT AND CLEARANCE AS REQUIRED.

REFER TO TRUSS CONNECTION DETAIL SHEET 1 FOR "TRUSS CONNECTION & GUSSET PLATE NOTES", "FILLER PLATE NOTES", AND "TRUSS STEEL MATERIAL SPECIFICATION NOTES".

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161truss.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TRUSS CONNECTION DETAIL SHEET 6	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	45 OF 100



PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161truss.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TRUSS CONNECTION DETAIL SHEET 7	SHEET 46 OF 100



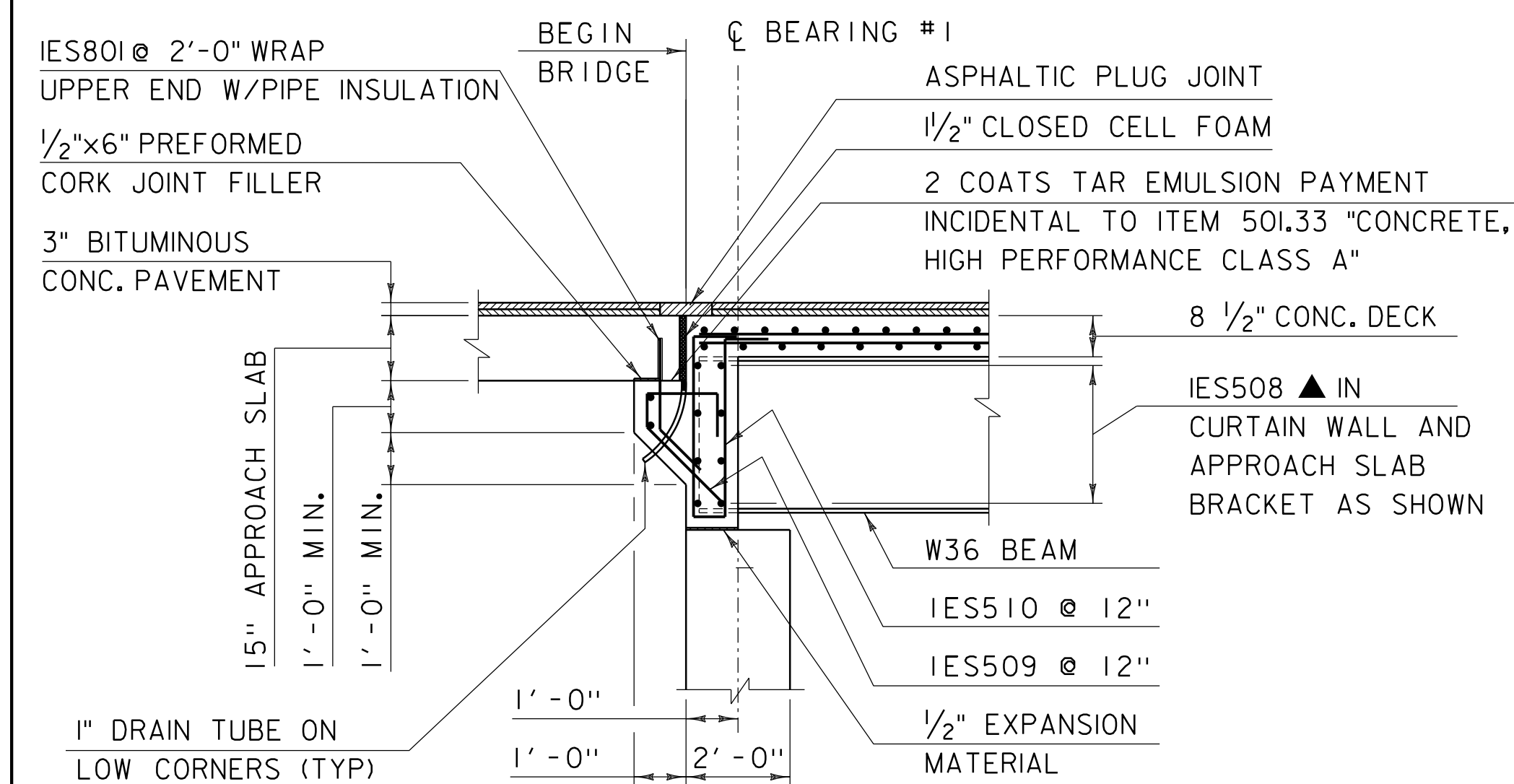
ABUTMENT #1 PLAN VIEW

SCALE 1/4" = 1' - 0"

NOTE: SEE "ADDENDUM #1 DETAILS" SHEET 59a

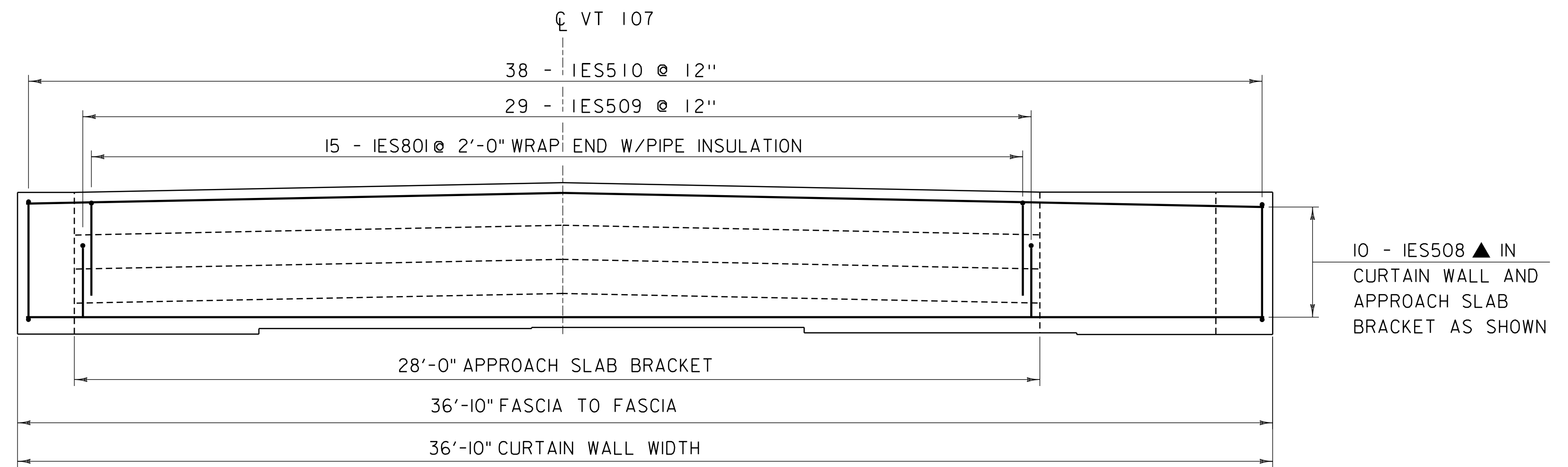
REVISION	DATE	DESCRIPTION	BY
	7-6-2011	ADDED EXPANSION MATERIAL BETWEEN ABUTMENT & DECK	GNR

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161sub1.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
ABUTMENT #1 PLAN	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	47 OF 100



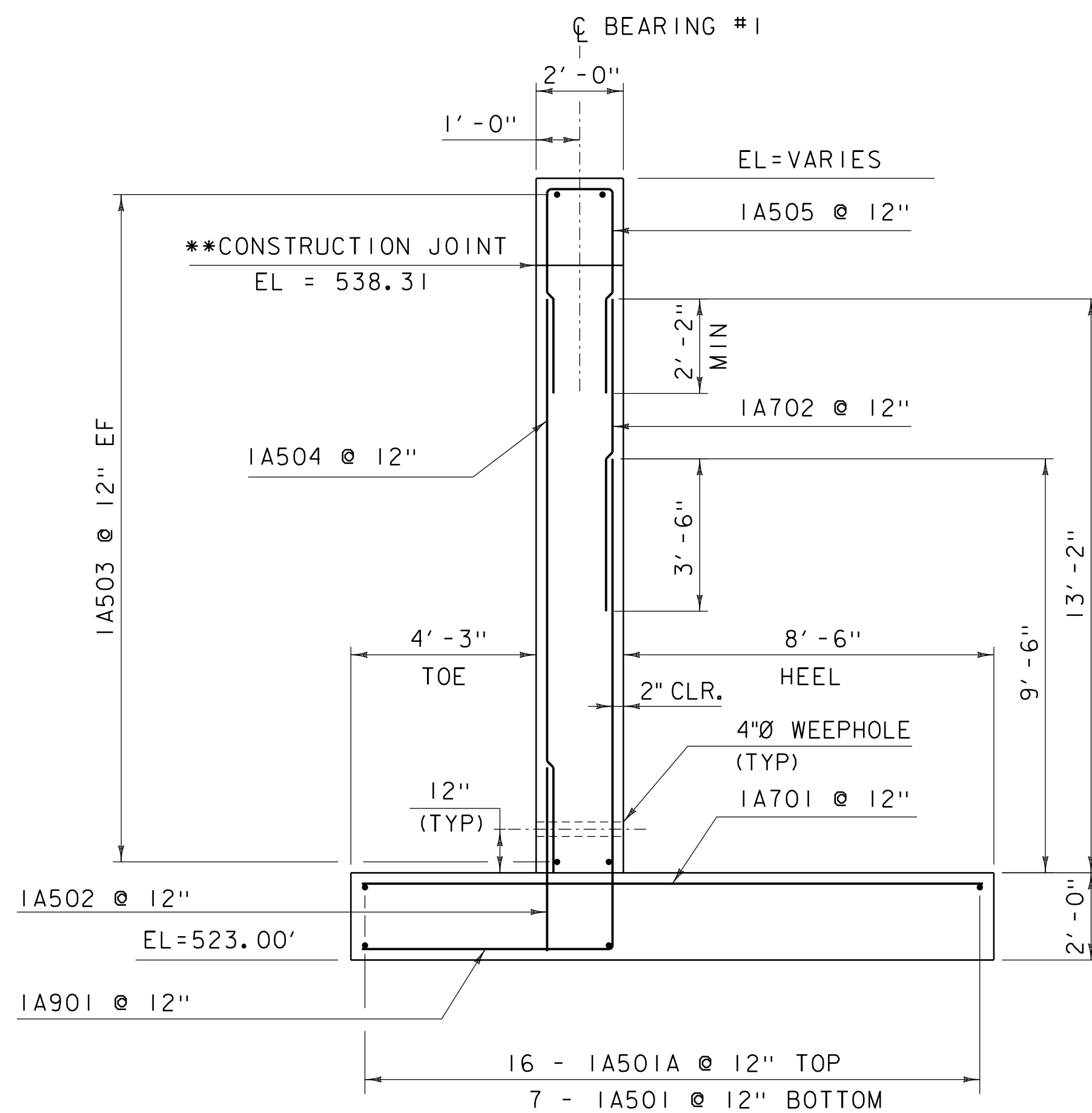
ABUTMENT #1 END DETAIL

SCALE 3/8" = 1'-0"



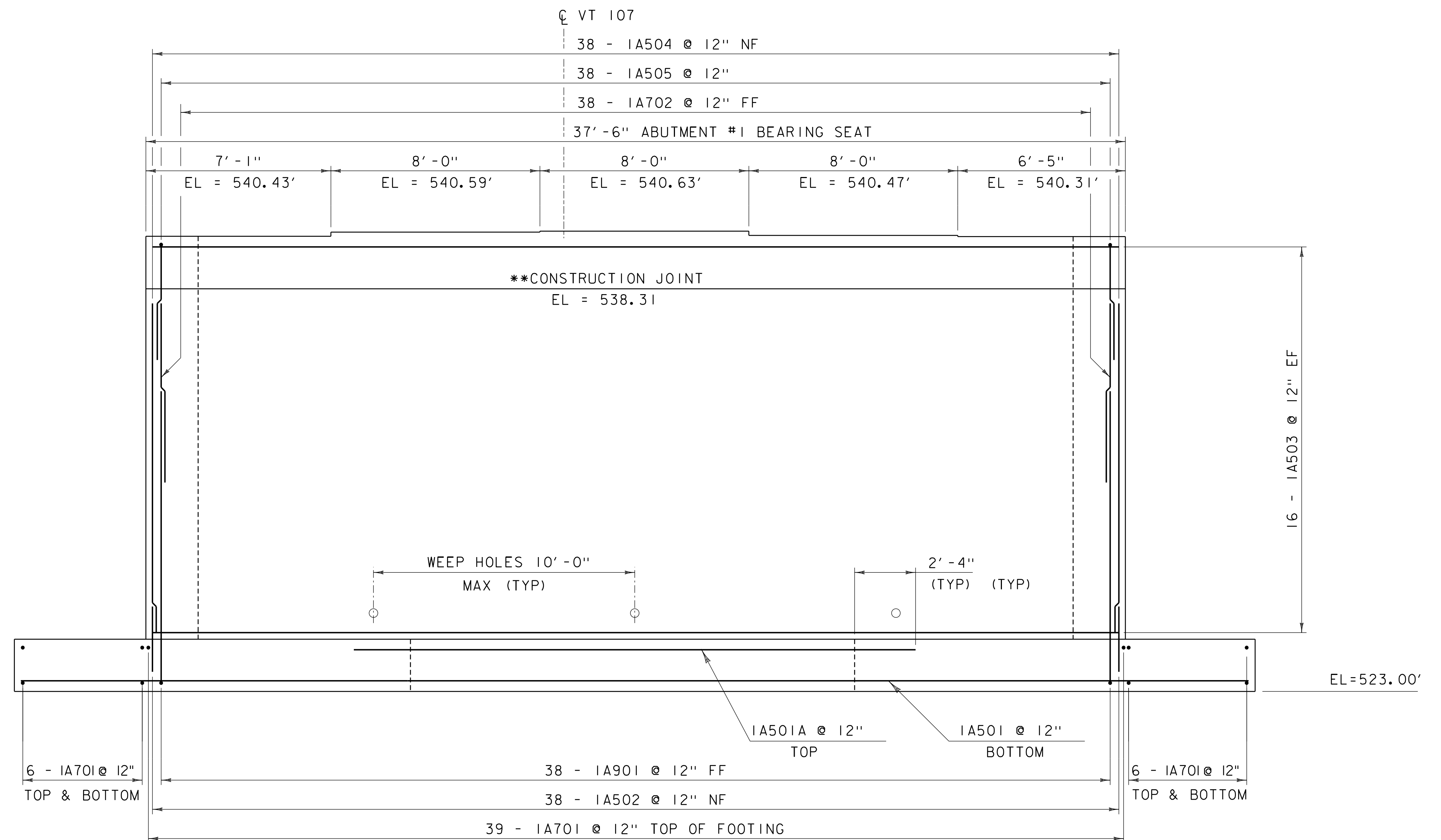
ABUTMENT #1 CURTAIN WALL

SCALE 3/8" = 1'-0"



ABUTMENT #1 TYPICAL

SCALE 3/8" = 1'-0"



ABUTMENT #1 ELEVATION

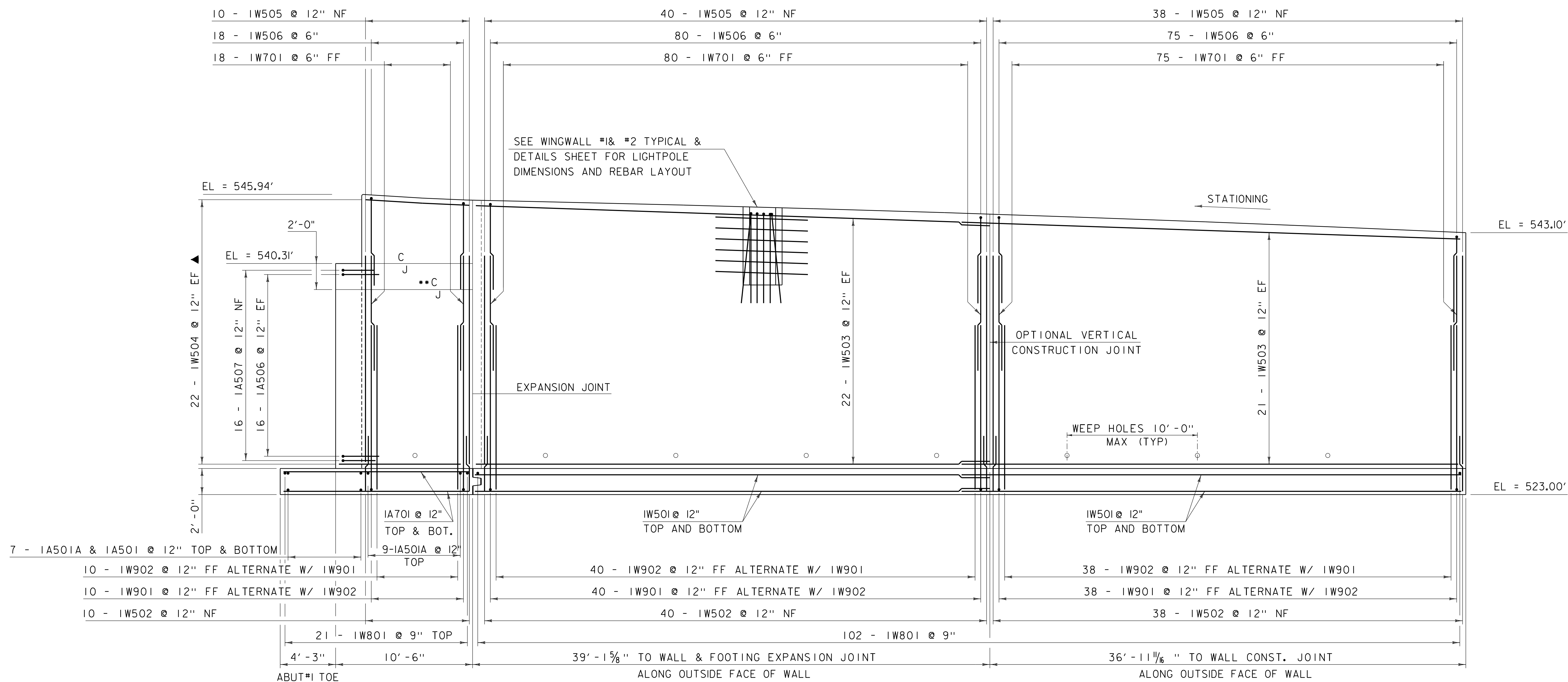
SCALE 3/8" = 1'-0"

NOTE:

NF = NEAR FACE
 FF = FAR FACE
 EF = EACH FACE
 ▲ = CUT TO FIT IN FIELD
 3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

**REFER TO CONCRETE SECTION OF GENERAL NOTES REGARDING CONSTRUCTION JOINT LOCATED AT ELEVATION 538.31 FOR ABUTMENT#1

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161sub1.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
ABUTMENT #1 ELEVATION & TYPICAL	SHEET 48 OF 100



WINGWALL # 1 ELEVATION (CURVED)

SCALE 1/4" = 1' - 0"

1. TOP OF WW#1 ELEVATION FOLLOWS THE FINISH GRADE ELEVATION OF THE SIDEWALK OUTSIDE EDGE. THE WALL ELEVATION IS 5" ABOVE ROAD CENTER LINE ELEVATION, EXCEPT FOR THE 10'-0" TRANSITION FROM 10" CURB ON THE BRIDGE TO 7" CURB IN THE TYPICAL SECTION. SEE STATION OFFSET ELEVATION REPORT ON THE WINGWALL TYPICALS SHEET.

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2' - 2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

**REFER TO CONCRETE SECTION OF GENERAL NOTES REGARDING CONSTRUCTION JOINT LOCATED AT ELEVATION 538.31 FOR ABUTMENT #1

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161sub1.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
WINGWALL #1 ELEVATION	SHEET 49 OF 100

WW #2 TOP OF WALL ELEVATIONS

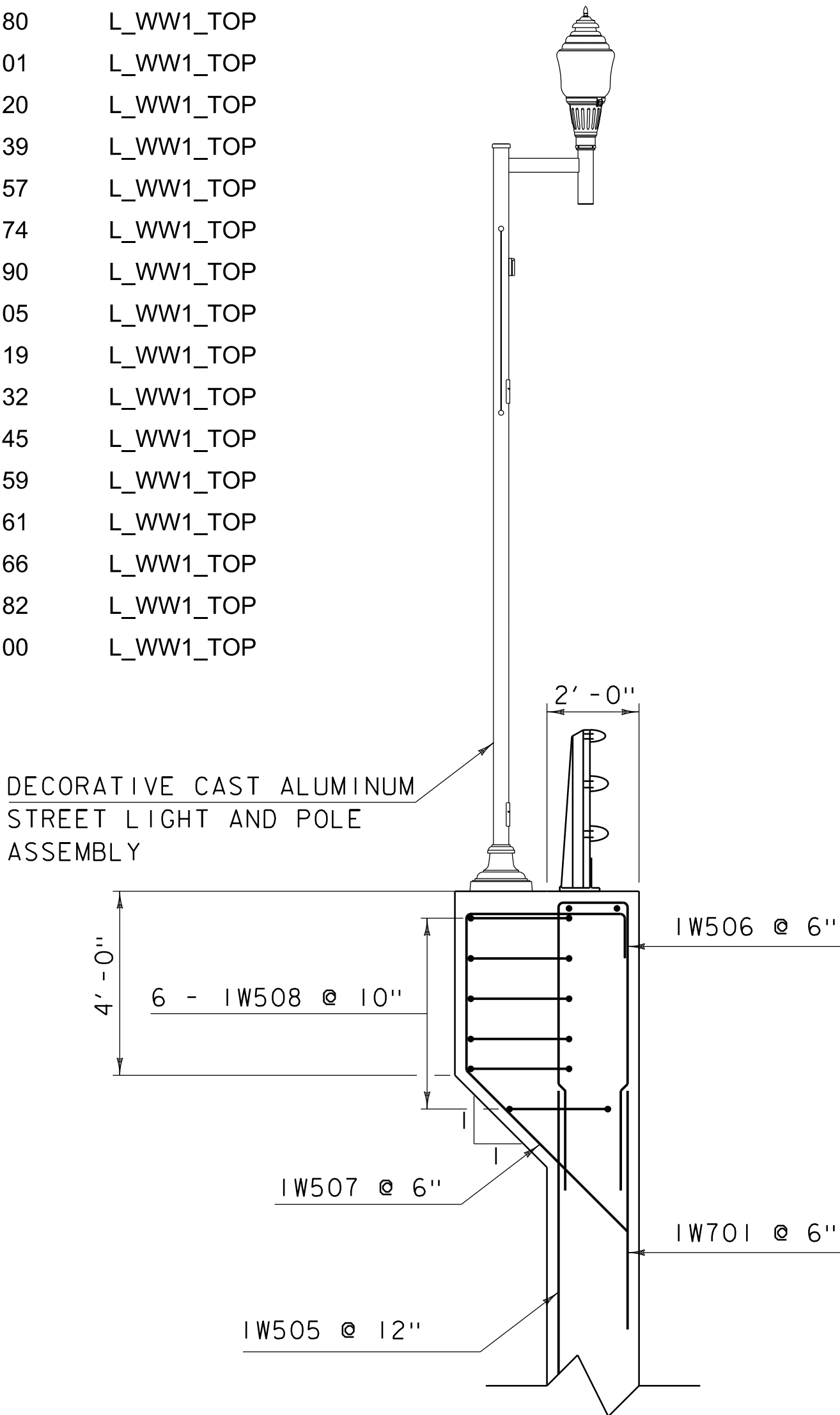
Station Based Offset Elevation Report: WW2

STA	OFFSET	ELEVATION	FEATURE
124+50.00	16.00	544.94	R_WW2_TOP
124+55.00	16.00	545.08	R_WW2_TOP
124+60.00	16.00	545.21	R_WW2_TOP
124+65.00	16.00	545.34	R_WW2_TOP
124+70.00	16.00	545.48	R_WW2_TOP
124+70.55	16.00	545.50	R_WW2_TOP
124+71.55	16.00	545.55	R_WW2_TOP
124+75.00	16.00	545.71	R_WW2_TOP
124+79.00	16.00	545.89	R_WW2_TOP

WW #1 TOP OF WALL ELEVATIONS

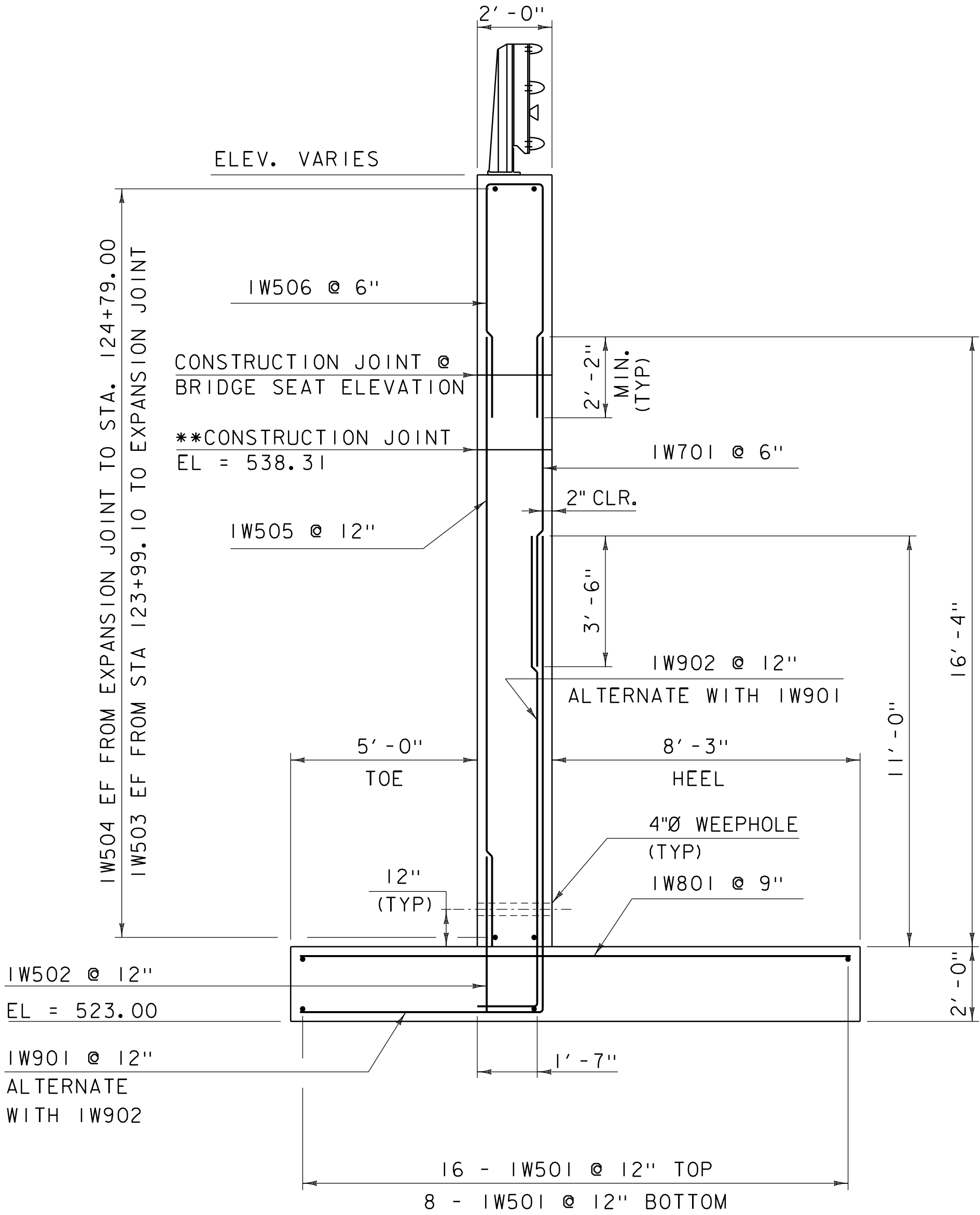
Station Based Offset Elevation Report: WW1

STA	OFFSET	ELEVATION	FEATURE
123+99.10	-21.50	543.10	L_WW1_TOP
124+00.00	-21.50	543.14	L_WW1_TOP
124+05.00	-21.50	543.37	L_WW1_TOP
124+10.00	-21.50	543.59	L_WW1_TOP
124+15.00	-21.50	543.80	L_WW1_TOP
124+20.00	-21.50	544.01	L_WW1_TOP
124+25.00	-21.50	544.20	L_WW1_TOP
124+30.00	-21.50	544.39	L_WW1_TOP
124+35.00	-21.50	544.57	L_WW1_TOP
124+40.00	-21.50	544.74	L_WW1_TOP
124+45.00	-21.50	544.90	L_WW1_TOP
124+50.00	-21.50	545.05	L_WW1_TOP
124+55.00	-21.50	545.19	L_WW1_TOP
124+60.00	-21.50	545.32	L_WW1_TOP
124+65.00	-21.50	545.45	L_WW1_TOP
124+70.00	-21.50	545.59	L_WW1_TOP
124+70.55	-21.50	545.61	L_WW1_TOP
124+71.55	-21.50	545.66	L_WW1_TOP
124+75.00	-21.50	545.82	L_WW1_TOP
124+79.00	-21.50	546.00	L_WW1_TOP



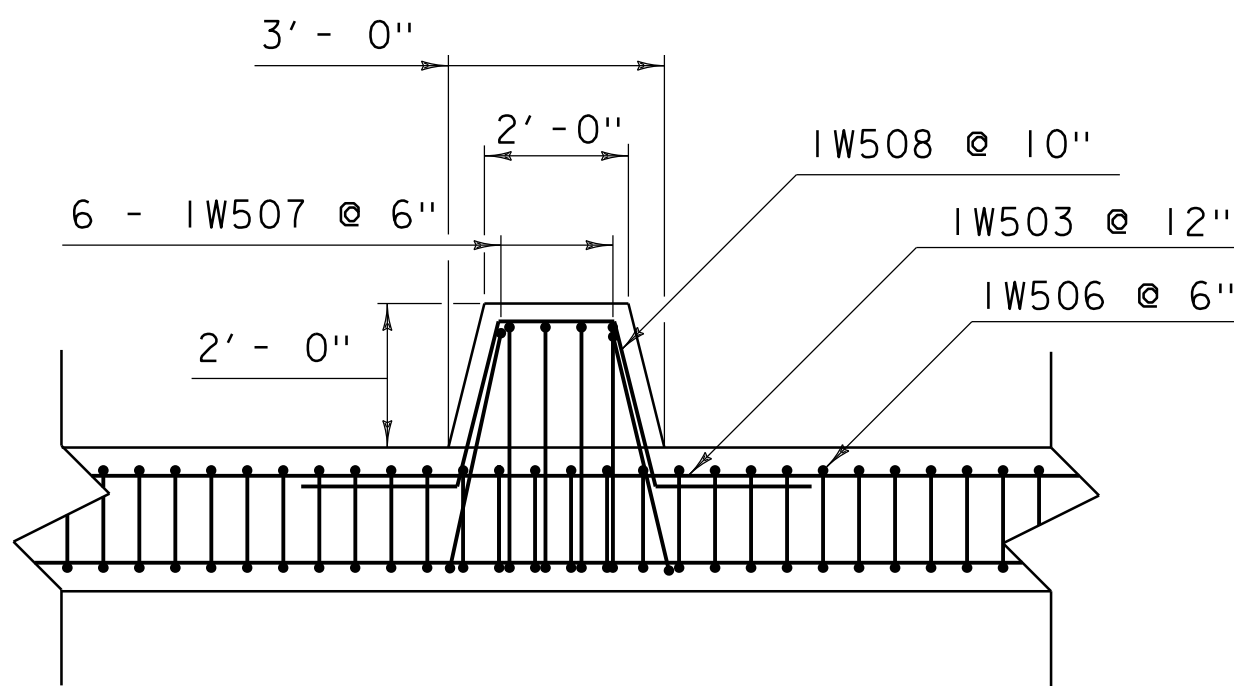
WINGWALL I LIGHTPOLE TYPICAL

SCALE 3/8" = 1'-0"



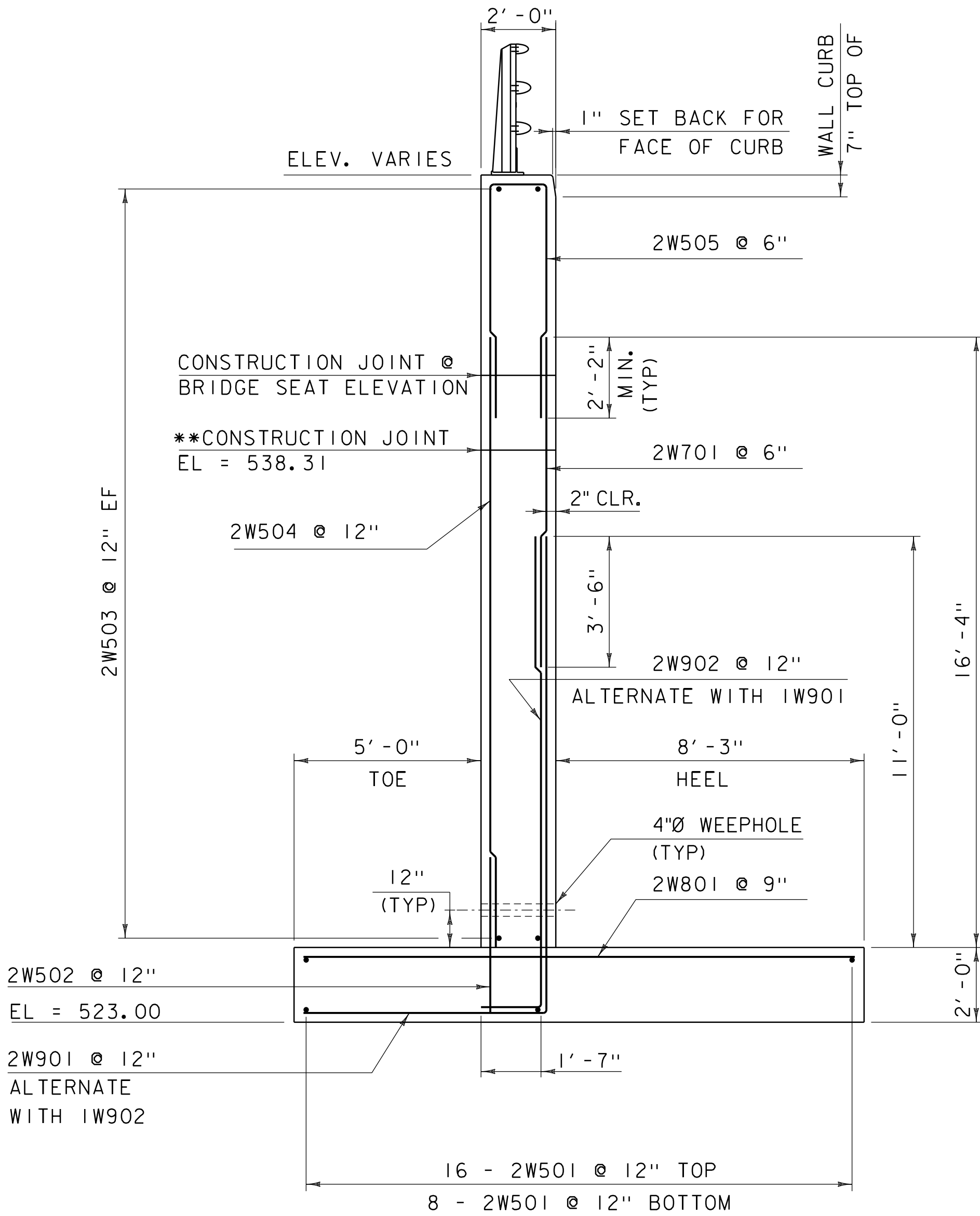
WINGWALL I TYPICAL

SCALE 3/8" = 1'-0"



WINGWALL I LIGHTPOLE PLAN

SCALE 3/8" = 1'-0"



WINGWALL 2 TYPICAL

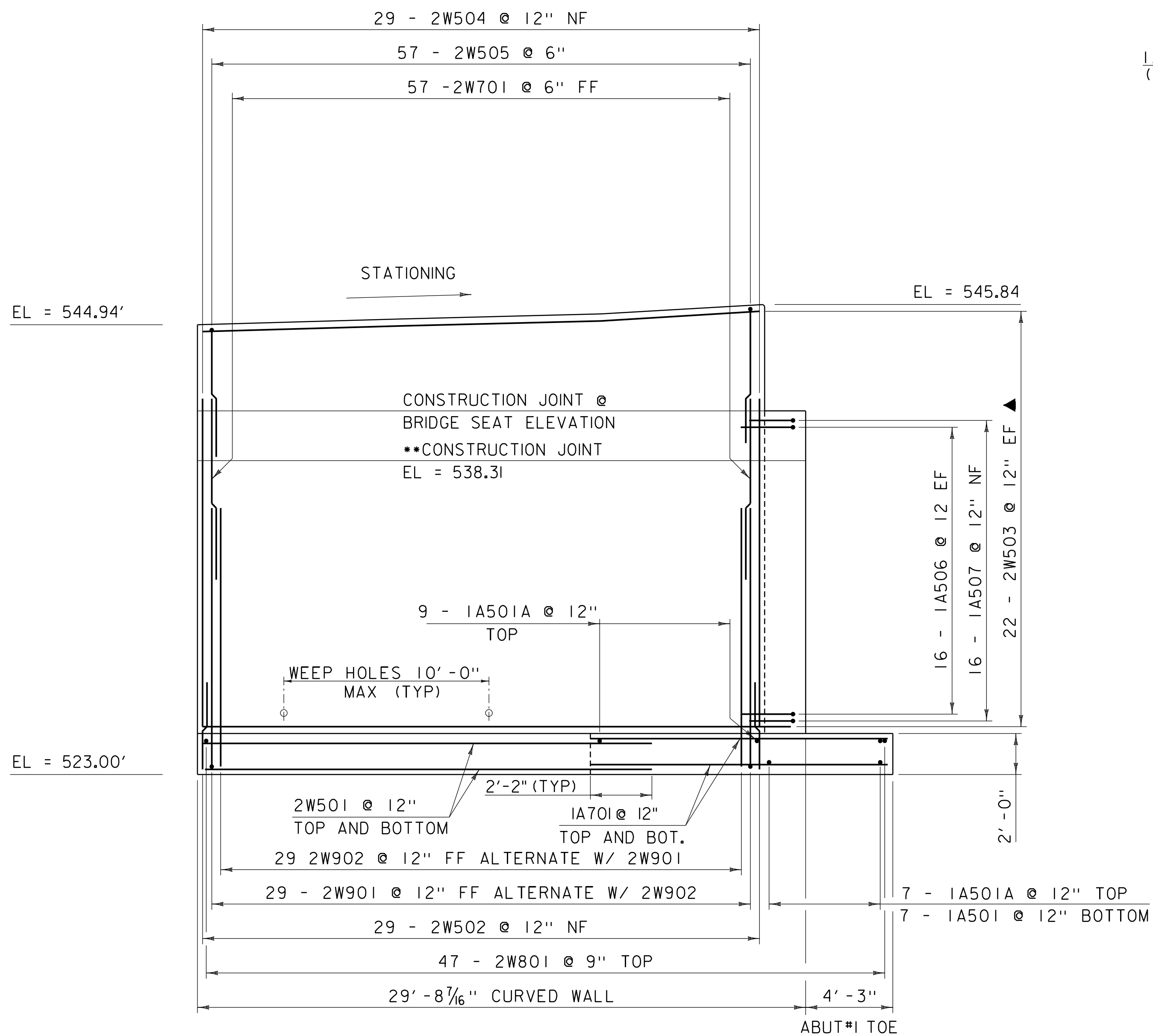
SCALE 3/8" = 1'-0"

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

**REFER TO CONCRETE SECTION OF GENERAL NOTES REGARDING
CONSTRUCTION JOINT LOCATED AT ELEVATION 538.31 FOR ABUTMENT#1

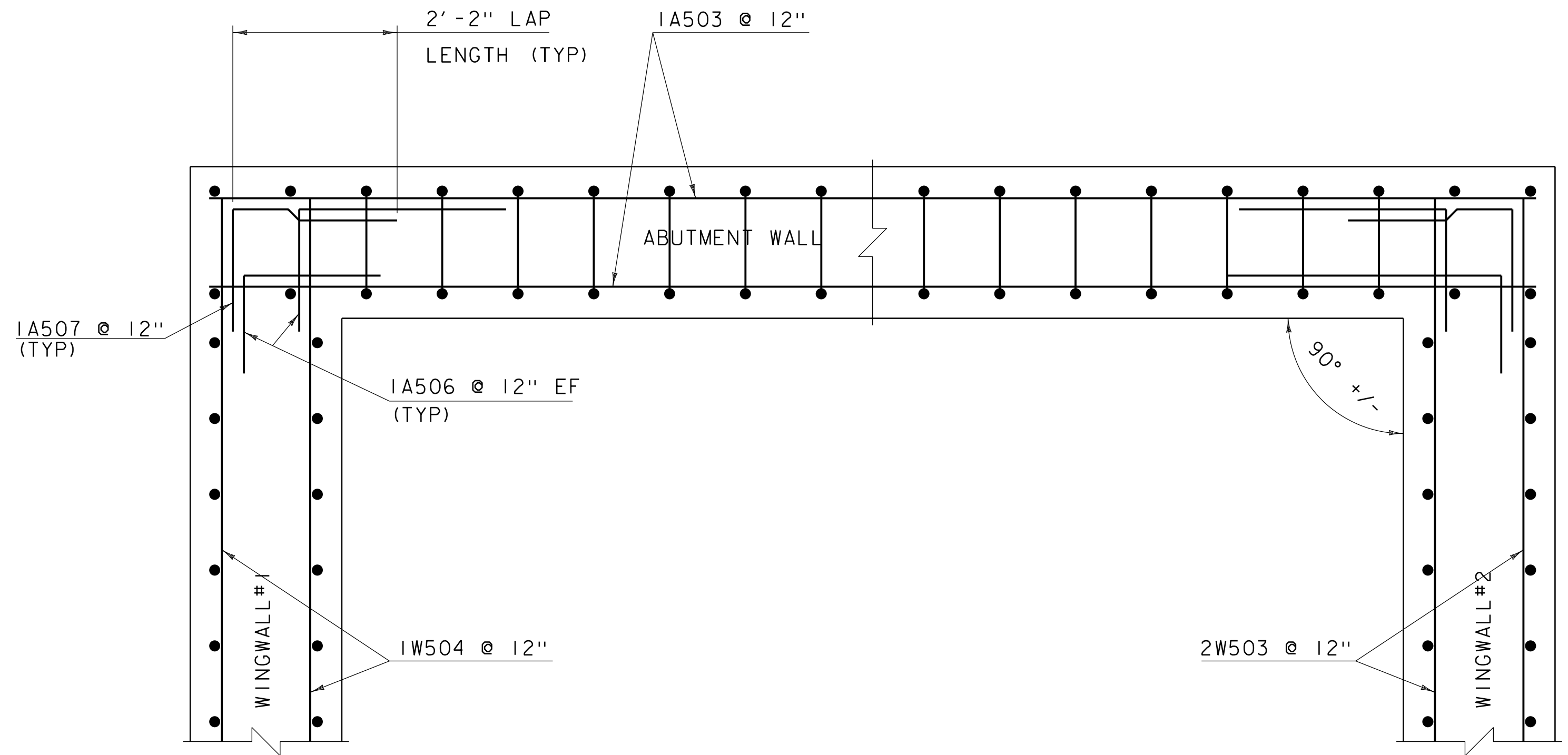
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161subl.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
WINGWALL #1 & #2 TYPICALS & DETAILS	PLOT DATE: 1/28/2013 DRAWN BY: M. LONGSTREET CHECKED BY: D.E.F. SHEET 50 OF 100



WINGWALL # 2 ELEVATION (CURVED)

SCALE $\frac{1}{4}$ " = 1' - 0"

1. TOP OF WW#2 ELEVATION FOLLOWS THE RIGHT SHOULDER OUT SIDE EDGE FINISH GRADE ELEVATION +7". THE WALL ELEVATION IS $3\frac{5}{8}$ " ABOVE ROAD CENTER LINE ELEVATION, EXCEPT FOR THE 10'-0" TRANSITION FROM 10" CURB ON THE BRIDGE TO 7" CURB IN THE TYPICAL SECTION. SEE STATION OFFSET REPORT ON THE WINGWALL TYPICALS SHEET.
2. REFER TO CONCRETE SECTION OF GENERAL NOTES REGARDING CONSTRUCTION JOINT LOCATED AT ELEVATION 538.31 FOR ABUTMENT#1



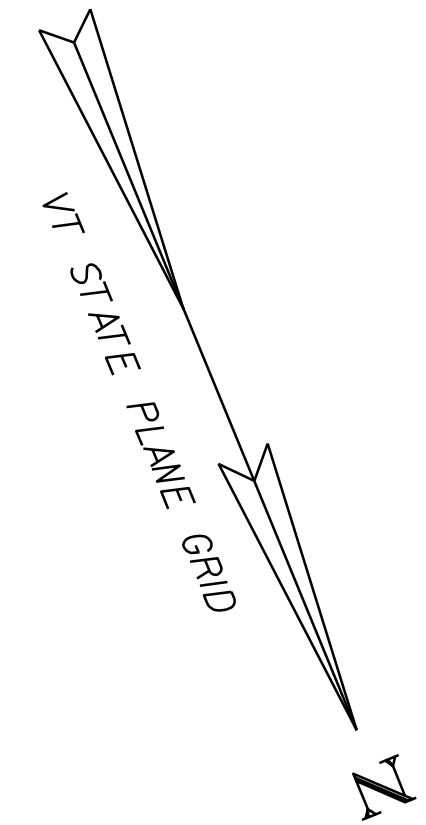
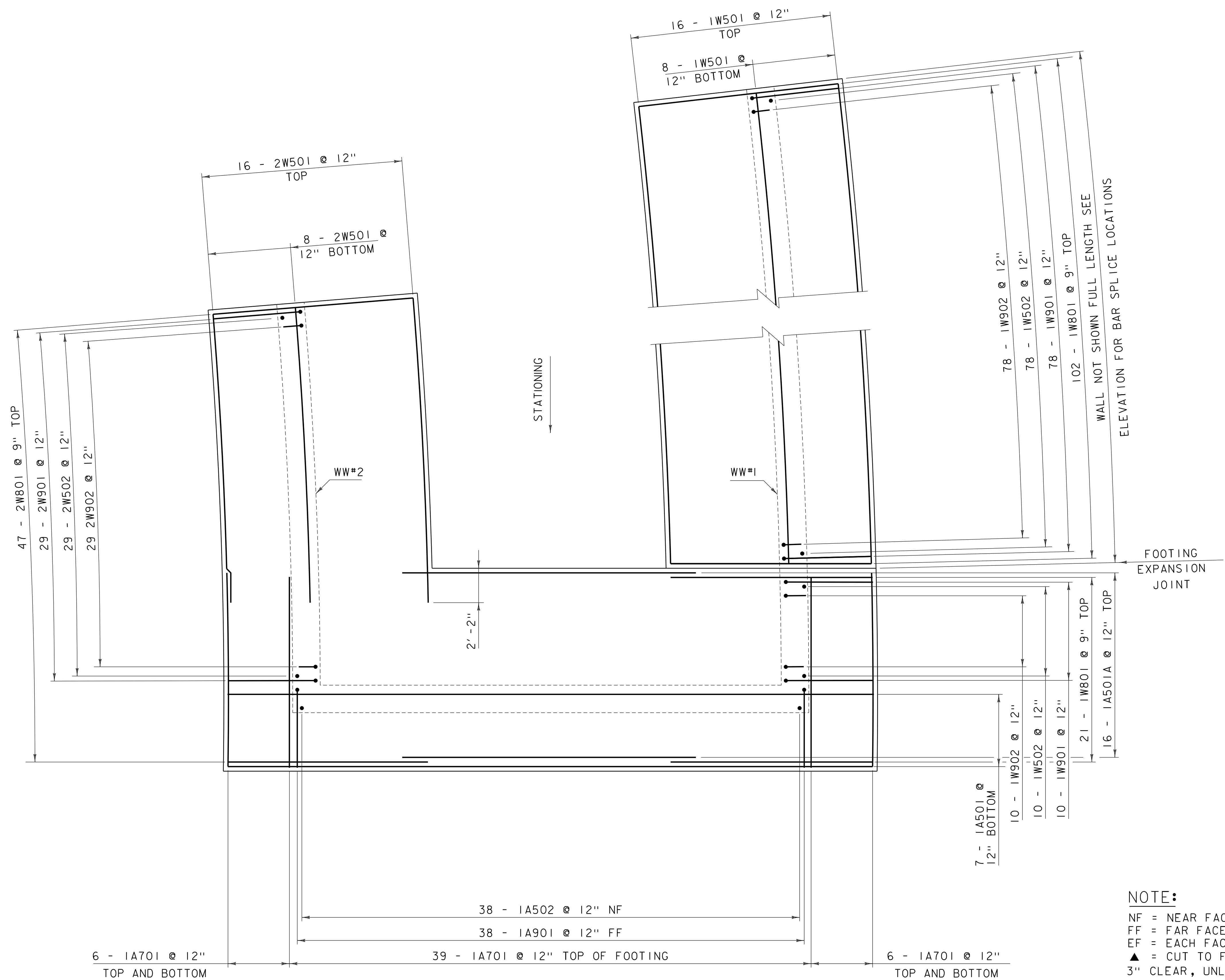
TYPICAL WINGWALL 1&2 CORNER DETAIL BELOW BRIDGE SEAT

SCALE $\frac{3}{4}$ " = 1' - 0"

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2' - 2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

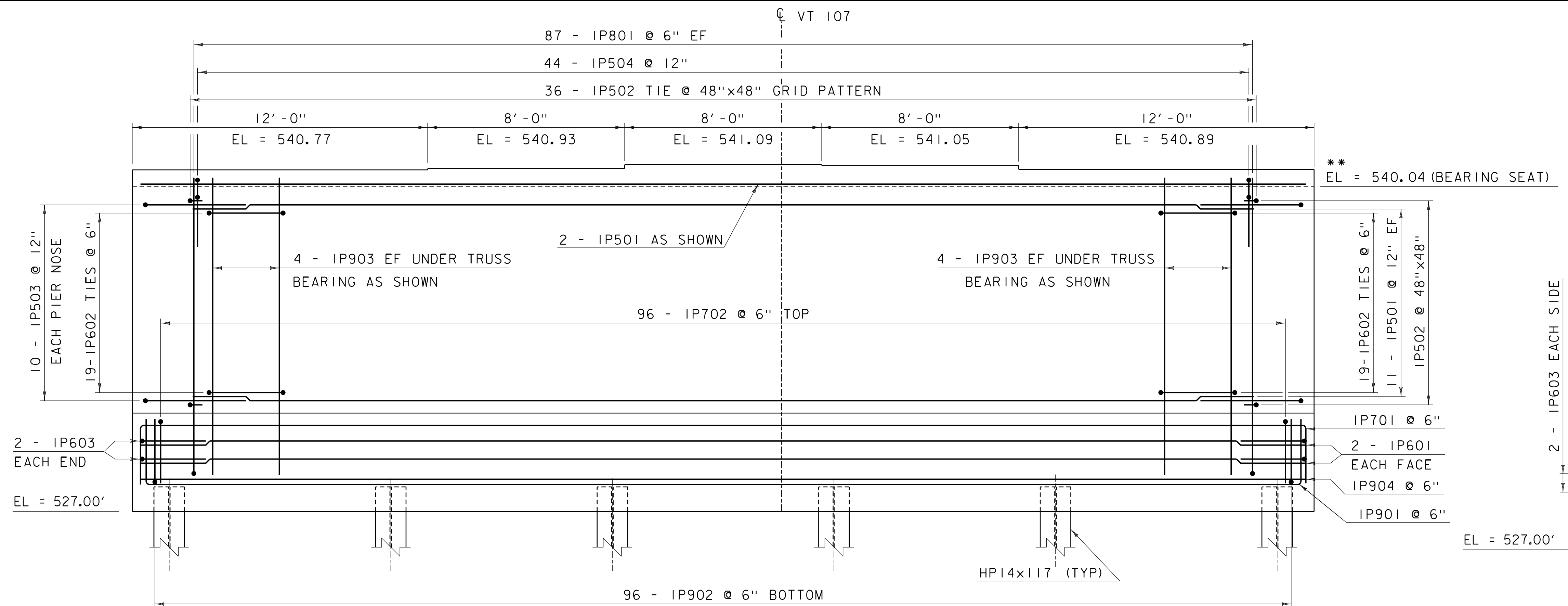
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME: s78f161subl.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
WINGWALL #2 ELEVATION & DETAILS	SHEET 51 OF 100



NOTE:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

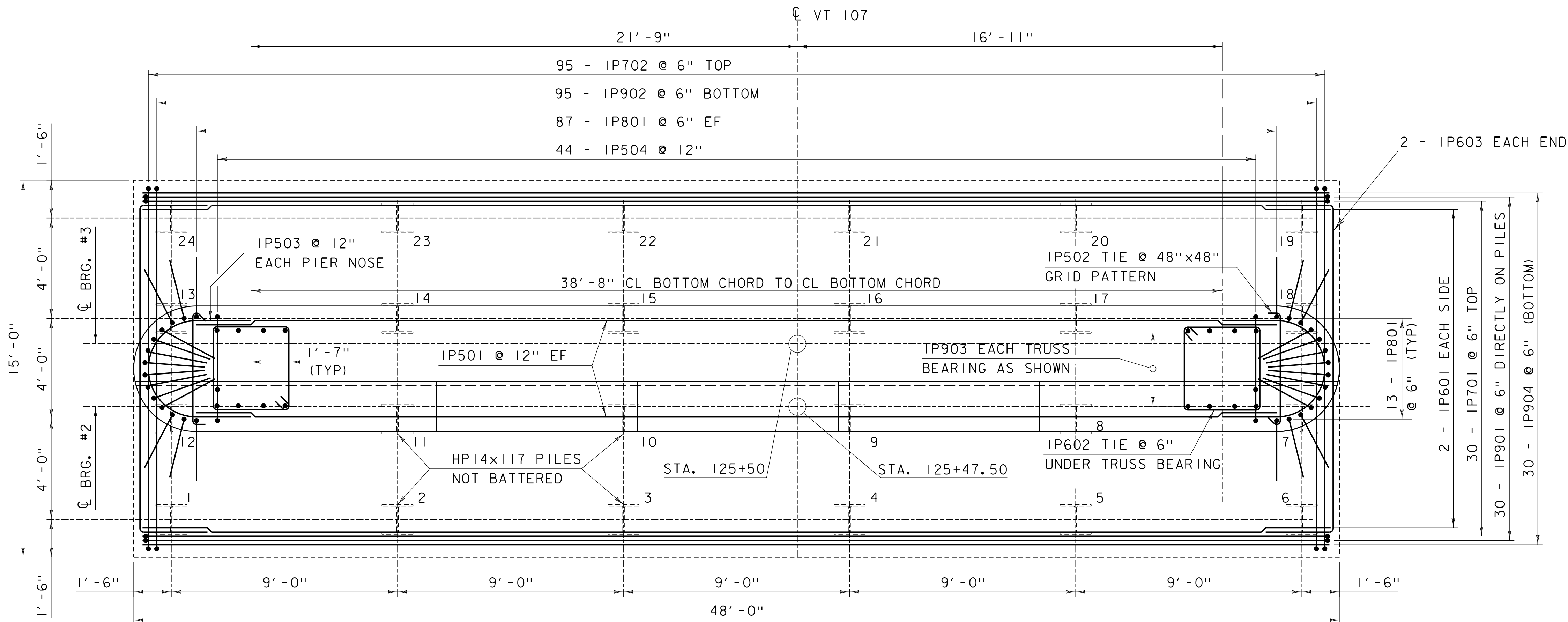
ABUTMENT #1 FOOTING REINFORCING PLAN
SCALE 1/4" = 1'-0"

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f161sub1.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
ABUTMENT #1 FOOTING REINFORCING PLAN	SHEET 52 OF 100



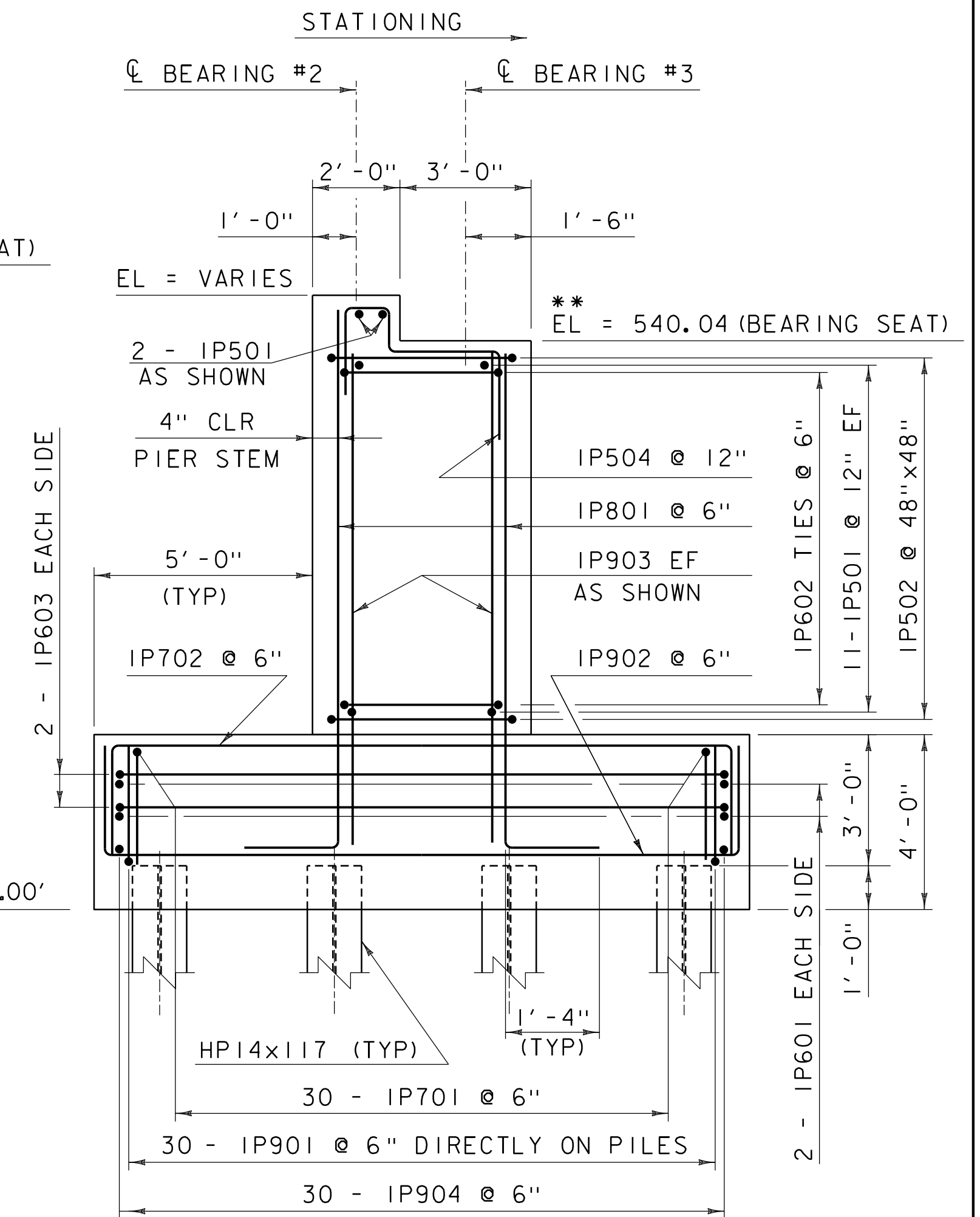
PIER #1 ELEVATION

SCALE $\frac{3}{8}$ " = 1'-0"



PIER #1 PLAN

SCALE $\frac{3}{8}$ " = 1'-0"



PIER #1 TYPICAL

SCALE $\frac{3}{8}$ " = 1'-0"

**THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE BEARING SEAT ELEVATIONS.

NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE SPECIFIED ON THE PLANS.

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161sub2.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
PEIR DETAIL SHEET	
PLOT DATE:	1/28/2013
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D.E.F.
SHEET	53 OF 100

ABUTMENT #2 TYPICAL SECTION A-A

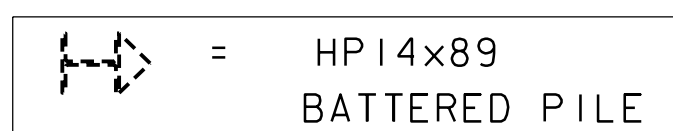
SCALE $\frac{1}{4}" = 1' - 0"$

ABUTMENT #2 TYPICAL SECTION B-B

SCALE $\frac{1}{4}" = 1' - 0"$

ABUTMENT #2 PLAN VIEW

SCALE $\frac{1}{4}" = 1' - 0"$

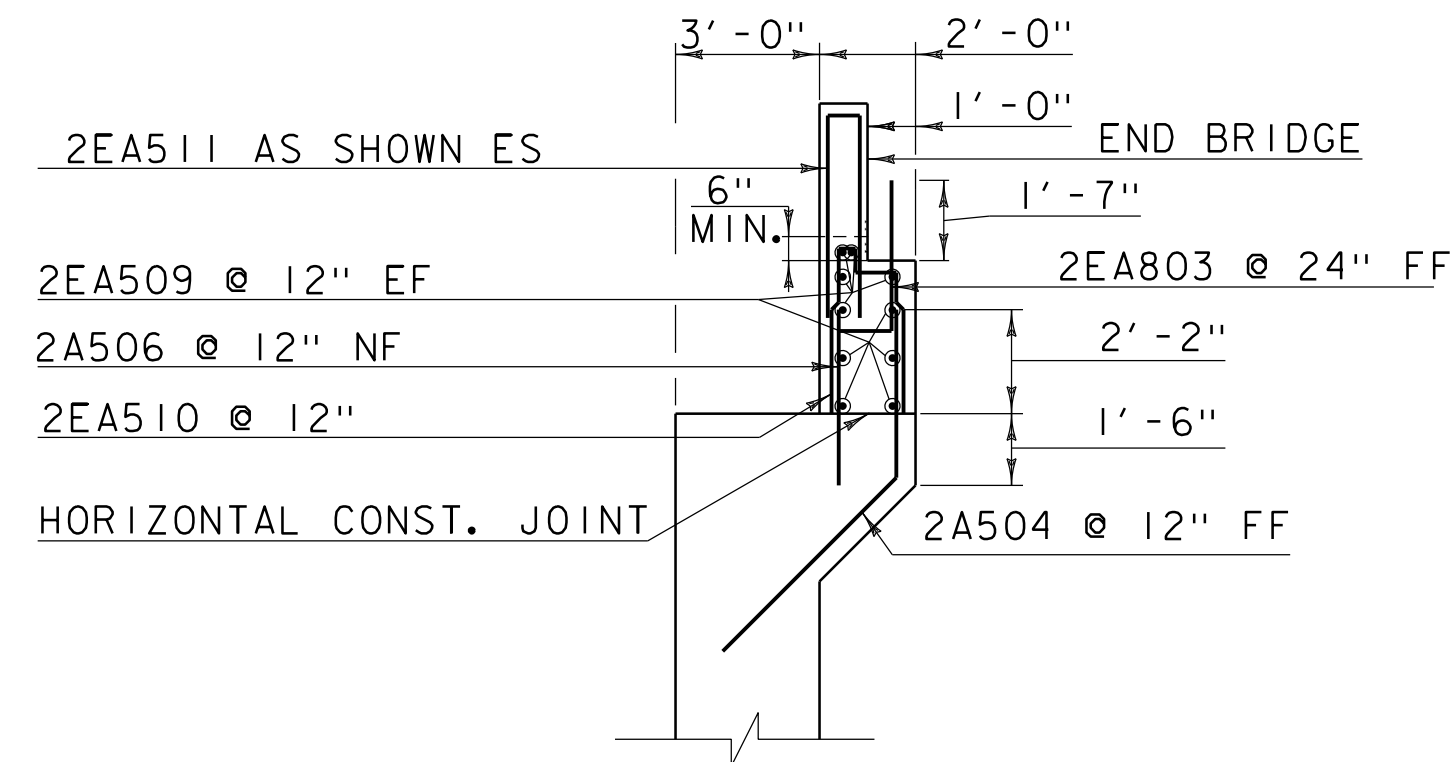


NOTE:

NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

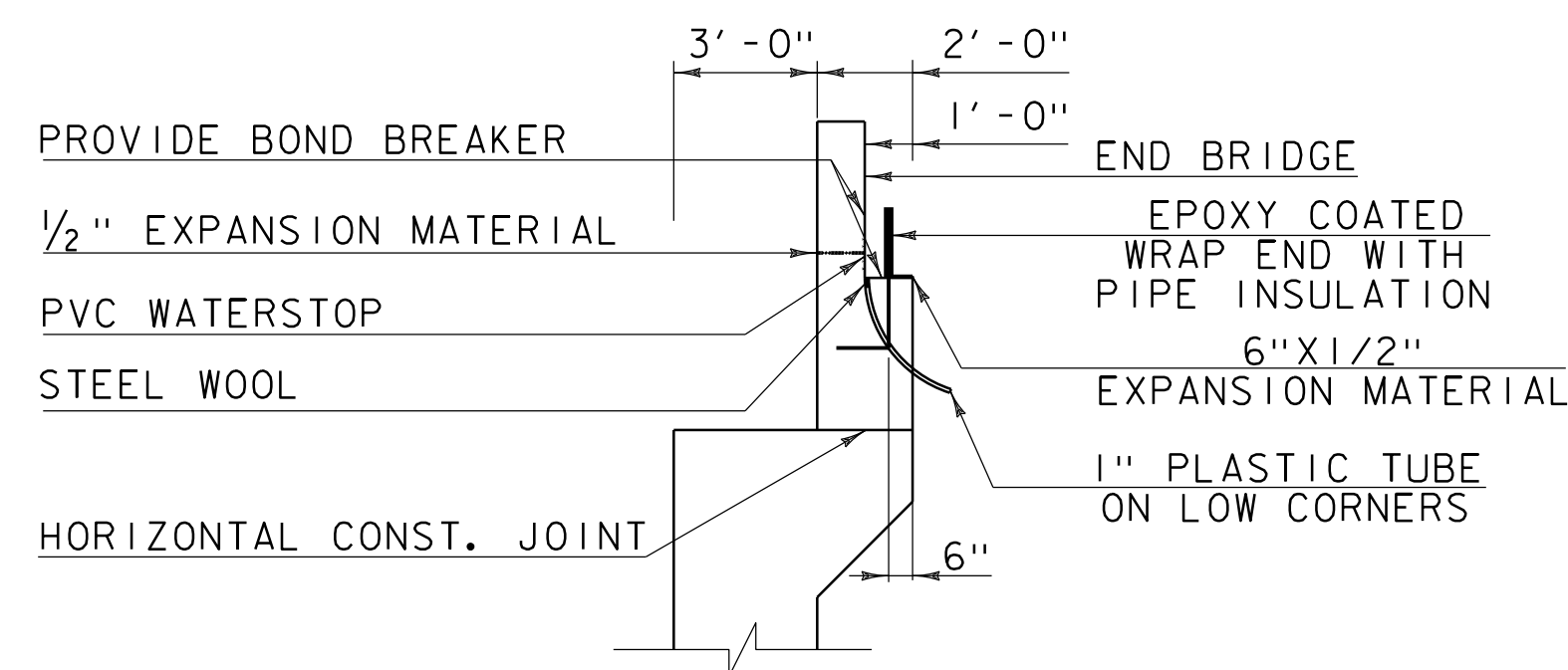
REVISION	DATE	DESCRIPTION	BY
	01-27-2012	MODIFY WW3 FTG, REMOVE (4) PILES, RELOCATE PILE #3, CANTILEVER WW3	MCL

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f16isub2.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: S. SCRIBNER
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
ABUTMENT #2 PLAN & TYPICALS	SHEET 54 OF 100



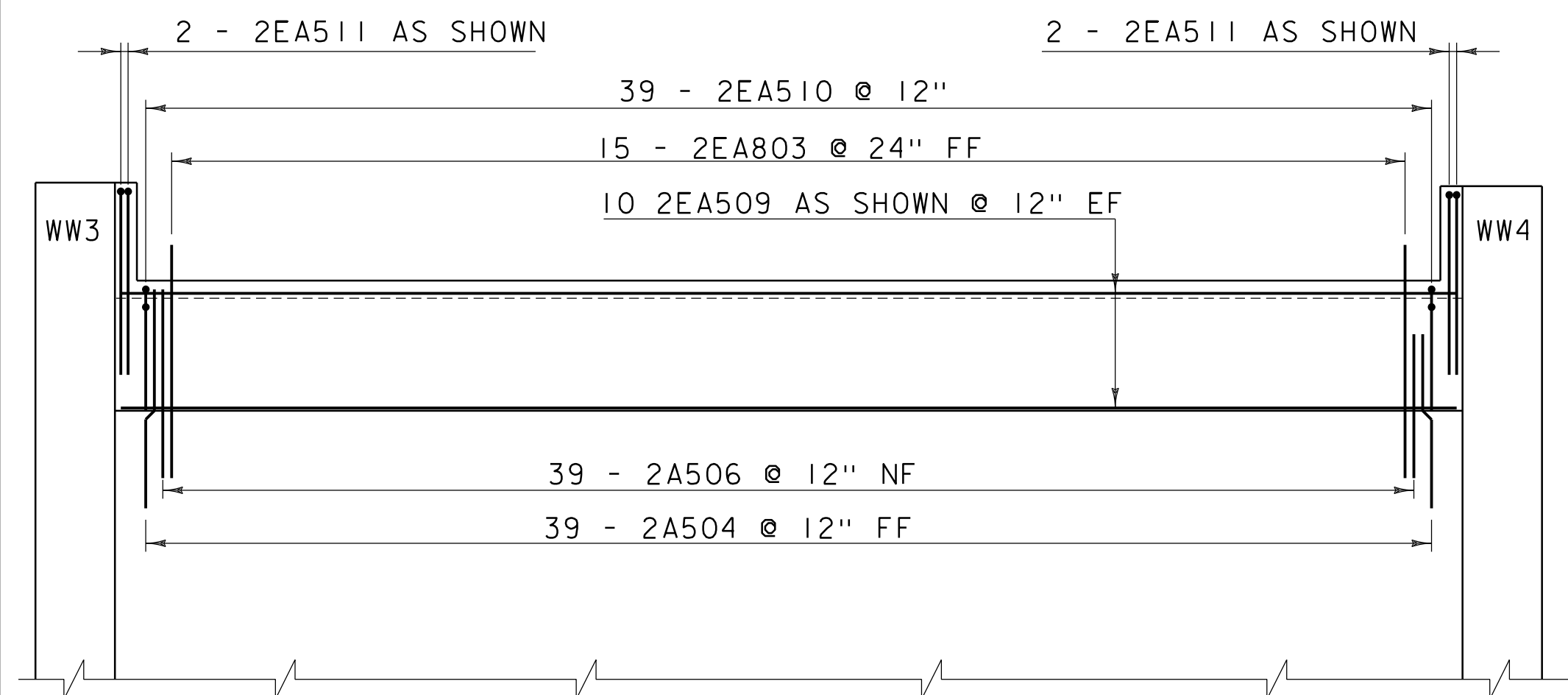
ABUTMENT #2 BACKWALL TYPICAL REINFORCING LAYOUT

SCALE 1/4" = 1'-0"



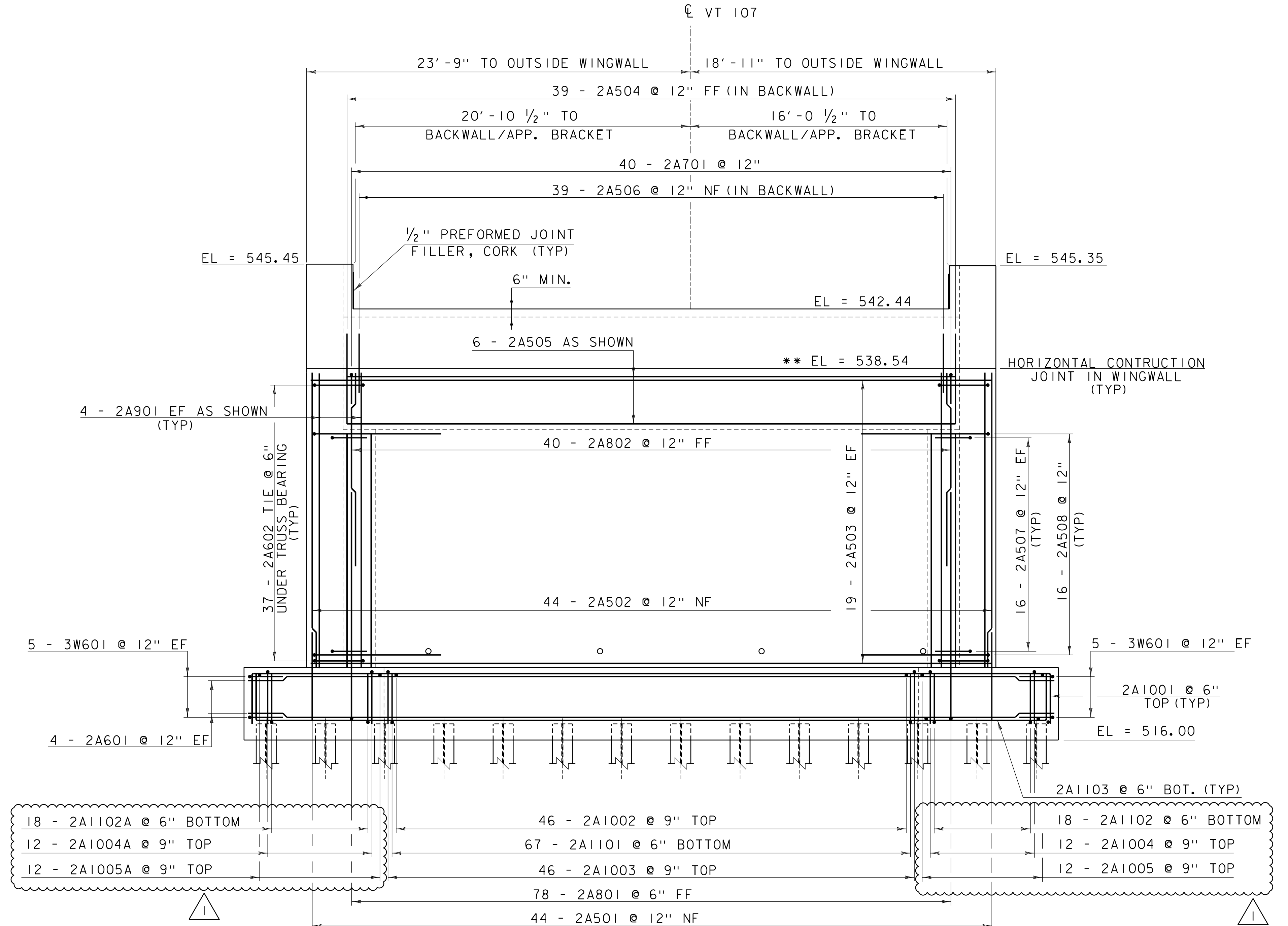
ABUTMENT #2 BACKWALL TYPICAL

SCALE 1/4" = 1'-0"



ABUTMENT #2 BACKWALL ELEVATION

SCALE 1/4" = 1'-0"



ABUTMENT #2 ELEVATION VIEW

SCALE 1/4" = 1'-0"

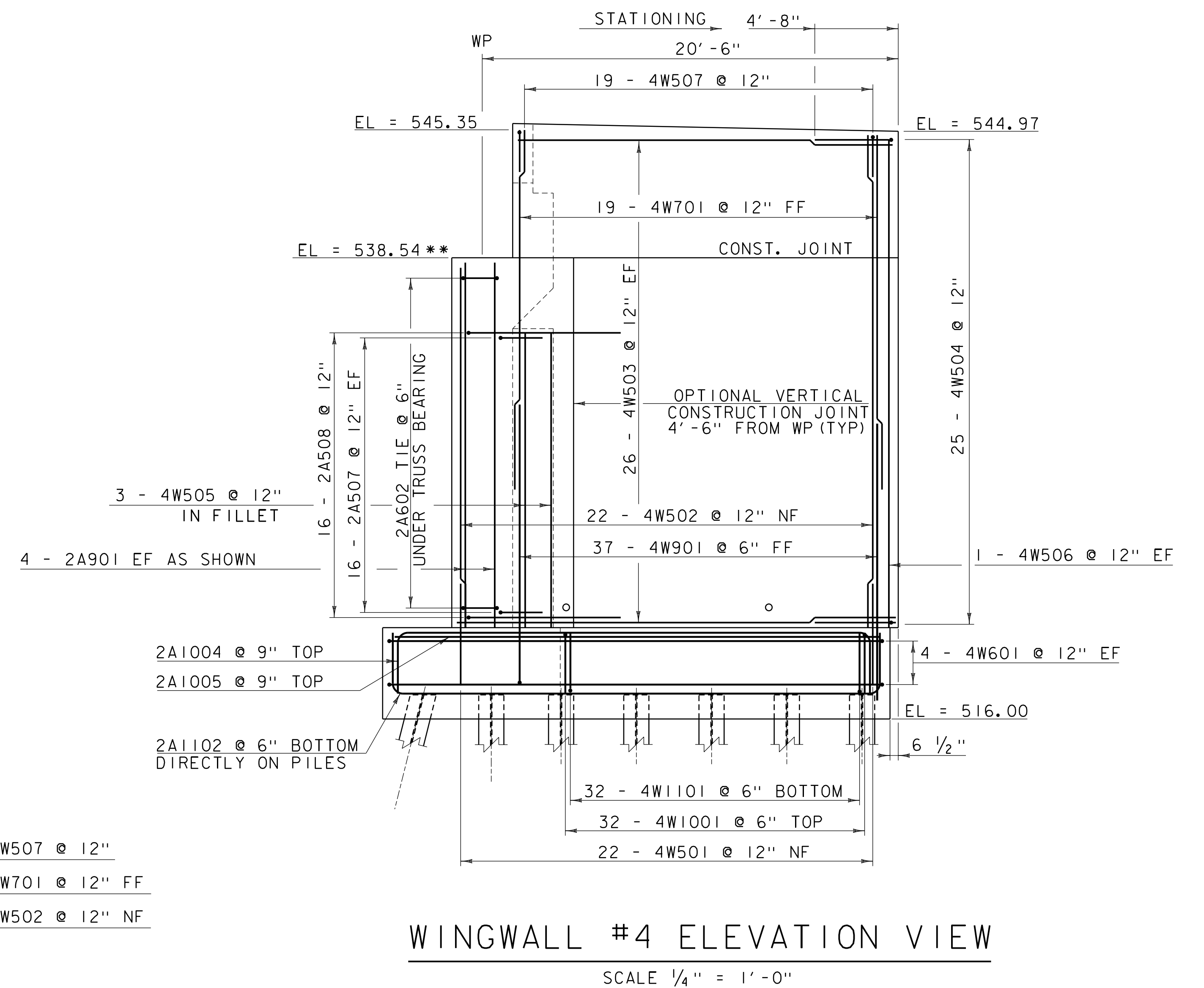
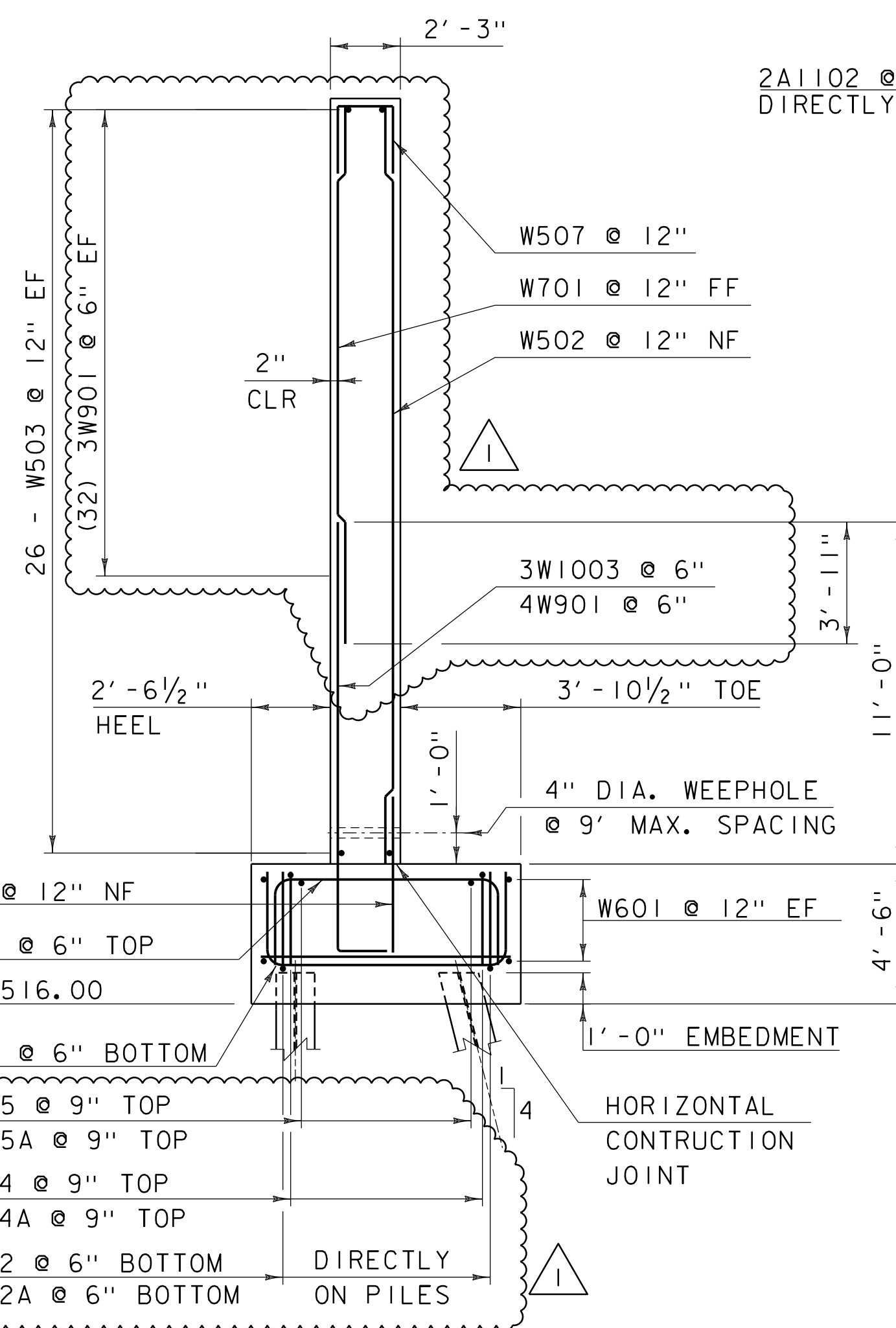
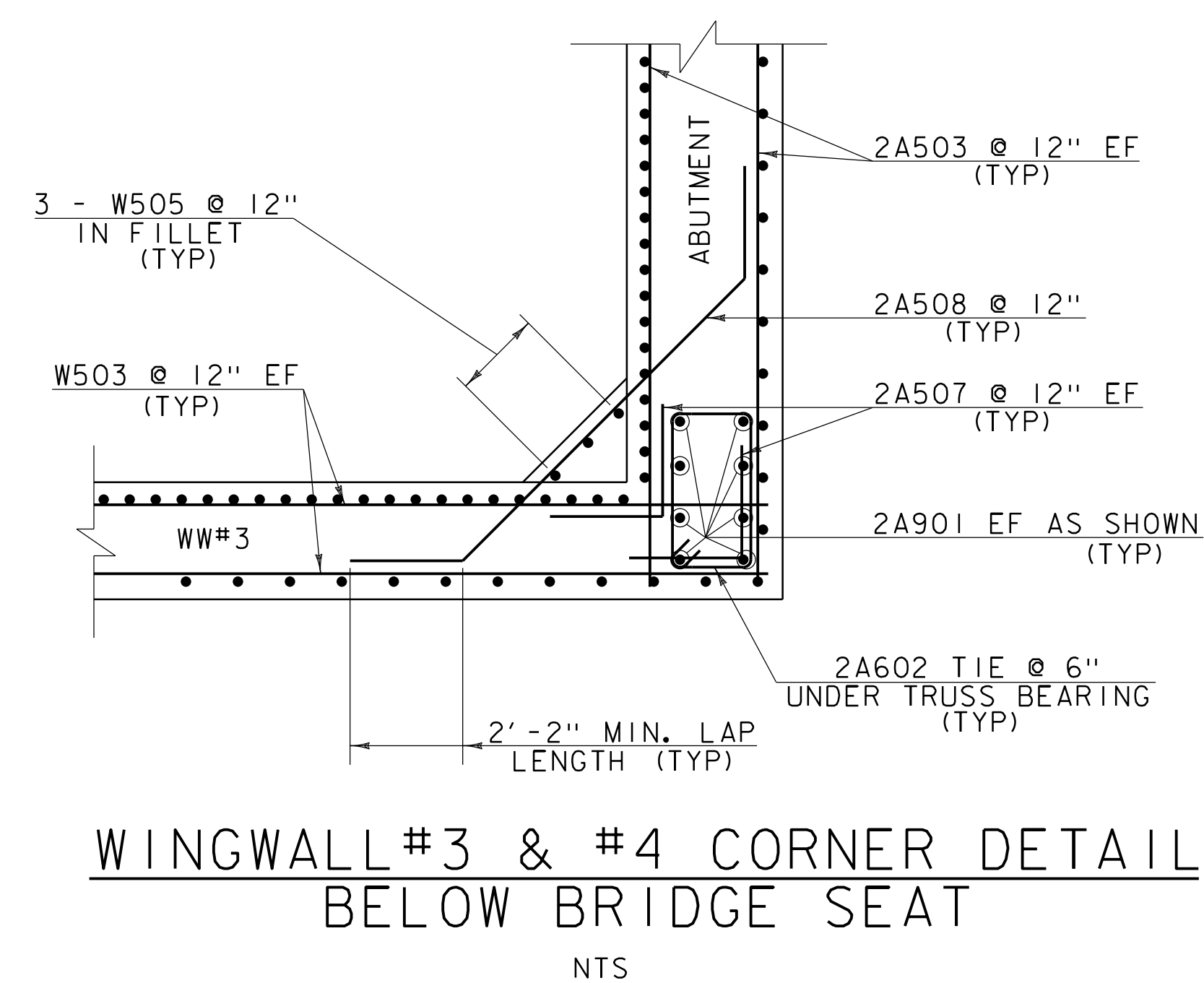
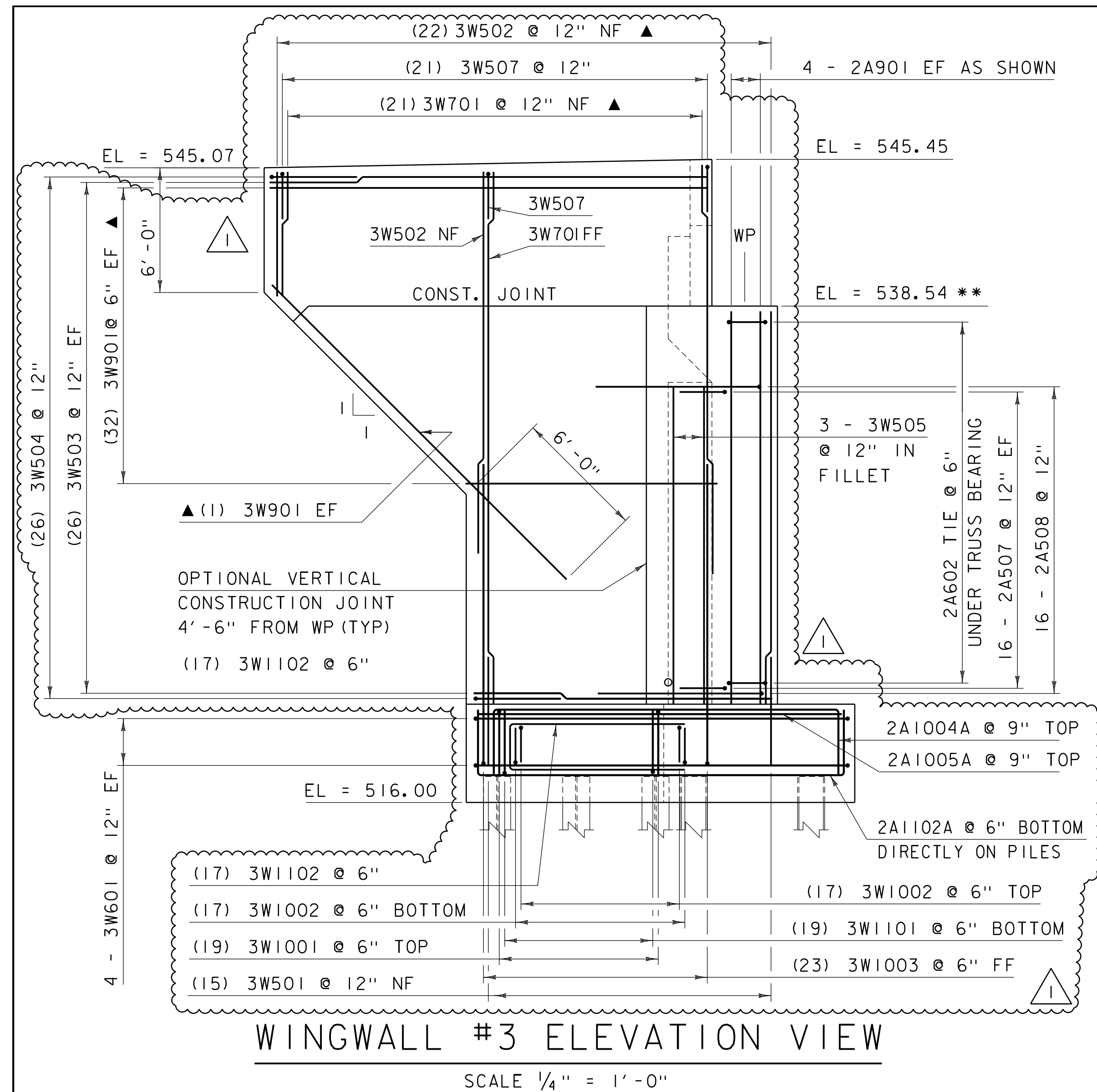
** THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE BEARING SEAT ELEVATIONS.

NOTE:

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▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

REVISION	DATE	DESCRIPTION	BY
1	01-27-2012	MODIFY WW3 FTG, REMOVE (4) PILES, RELOCATE PILE #3, CANTILEVER WW3	MCL

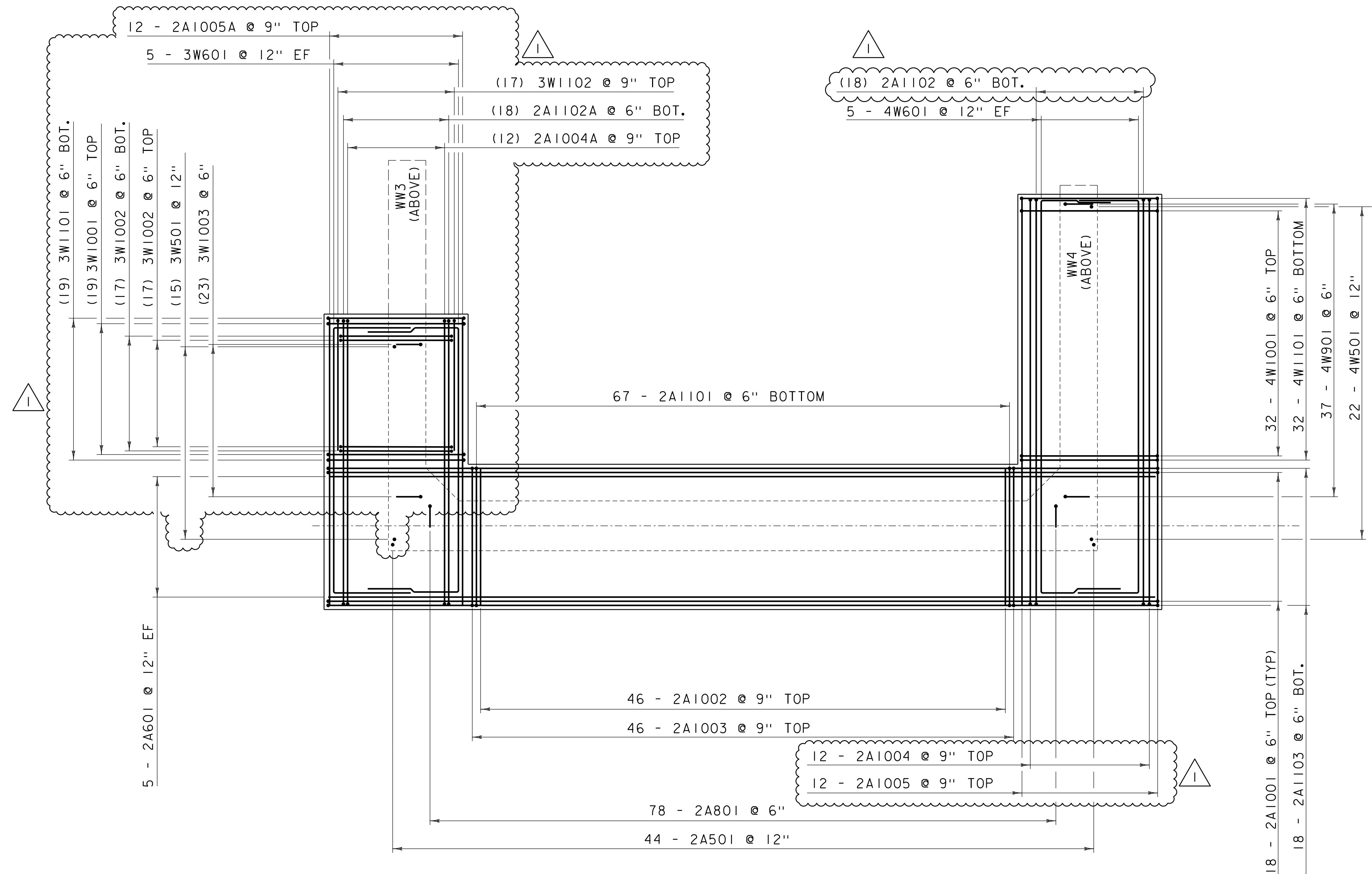
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s78f161sub2.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
ABUTMENT #2 ELEVATION & DETAILS	
PLOT DATE:	1/28/2013
DRAWN BY:	S. SCRIBNER
CHECKED BY:	D.E.F.
SHEET	55 OF 100



** THESE ELEVATIONS MAY HAVE TO BE ADJUSTED TO
 ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT
 IS THE RESPONSIBILITY OF THE CONTRACTOR TO
 COORDINATE ANY CHANGES IN THE BEARINGS WHICH
 MAY AFFECT THE BEARING SEAT ELEVATIONS.

REVISION	DATE	DESCRIPTION	BY
1	01-27-2012	MODIFY WW3 FTG, REMOVE (4) PILES, RELOCATE PILE #3, CANTILEVER WW3	MCL

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f16isub2.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: S. SCRIBNER
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
WINGWALL #3 & #4 DETAILS	SHEET 56 OF 100



ABUTMENT #2 FOOTING REINFORCING

SCALE 1/4" = 1' - 0"

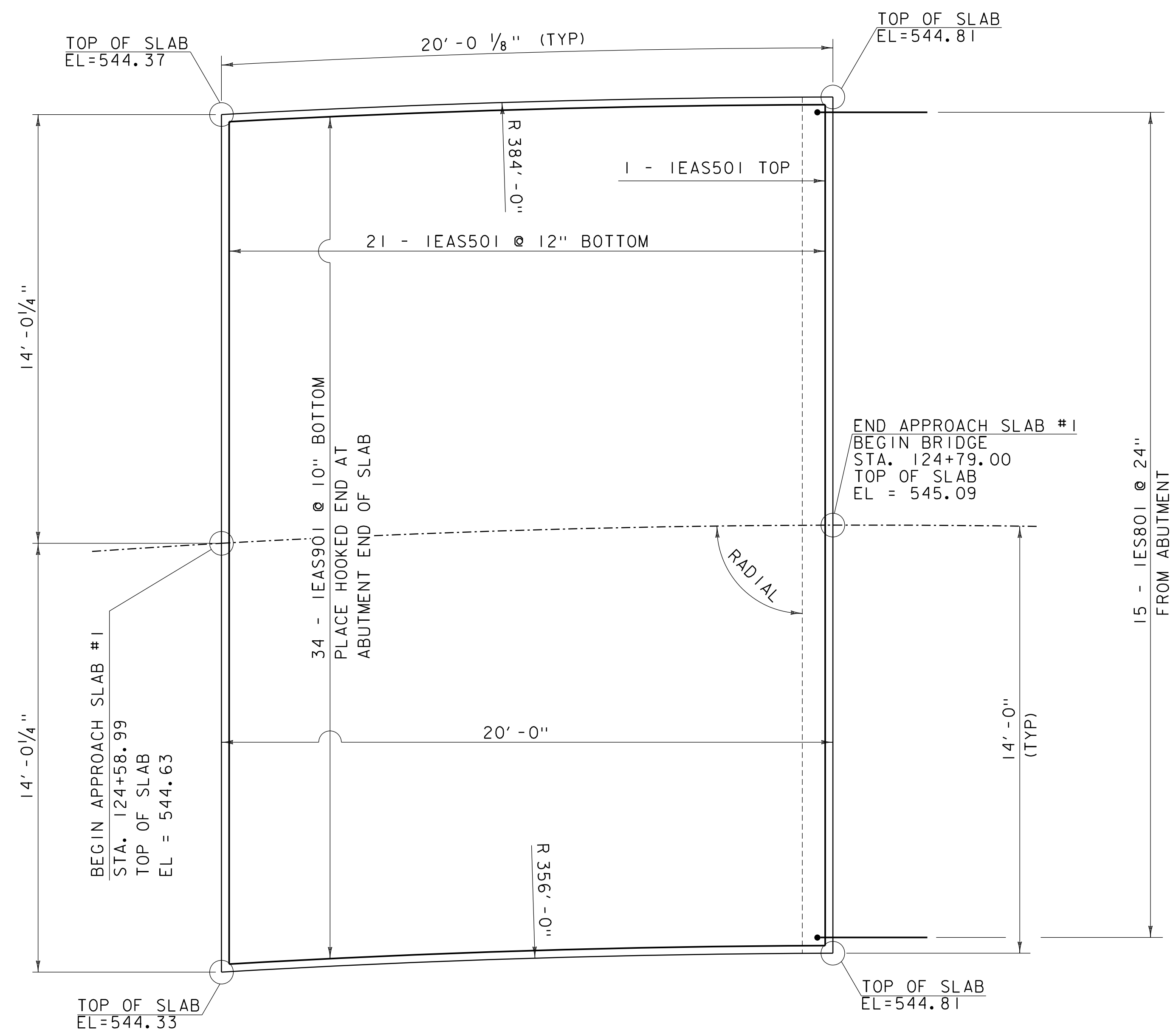
NOTE:
NF = NEAR FACE
FF = FAR FACE
EF = EACH FACE
▲ = CUT TO FIT IN FIELD
3" CLEAR, UNLESS OTHERWISE
SPECIFIED ON THE PLANS.
2'-2" BAR LAP UNLESS OTHERWISE
SPECIFIED ON THE PLANS.

REVISION	DATE	DESCRIPTION	BY
1	01-27-2012	MODIFY WW3 FTG, REMOVE (4) PILES, RELOCATE PILE #3, CANTILEVER WW3	MCL

PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)

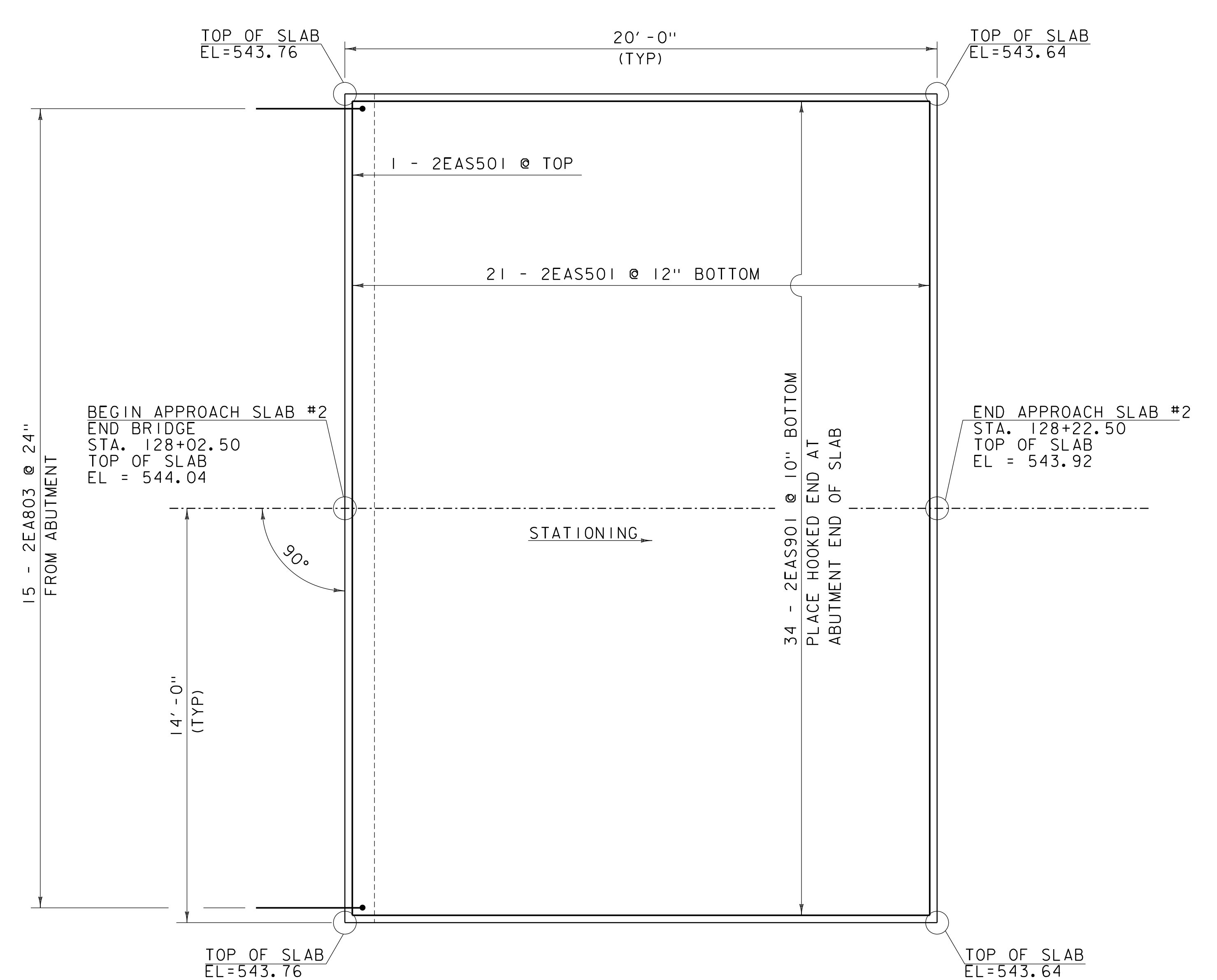
FILE NAME: s78f161sub2.dgn
PROJECT LEADER: G.H.K
DESIGNED BY: A.B.C.
ABUTMENT #2 FOOTING REINFORCING PLAN

PLOT DATE: 1/28/2013
DRAWN BY: M. LONGSTREET
CHECKED BY: D.E.F.
SHEET 57 OF 100



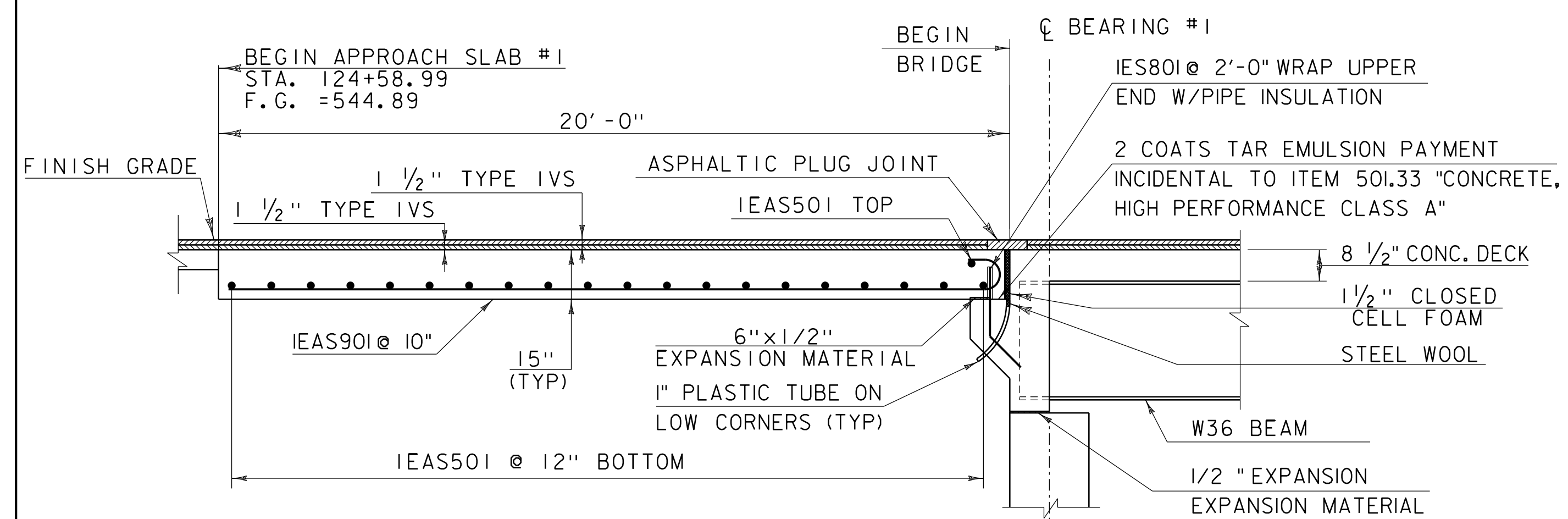
APPROACH SLAB NO. 1 PLAN

SCALE $\frac{3}{8}" = 1' - 0"$



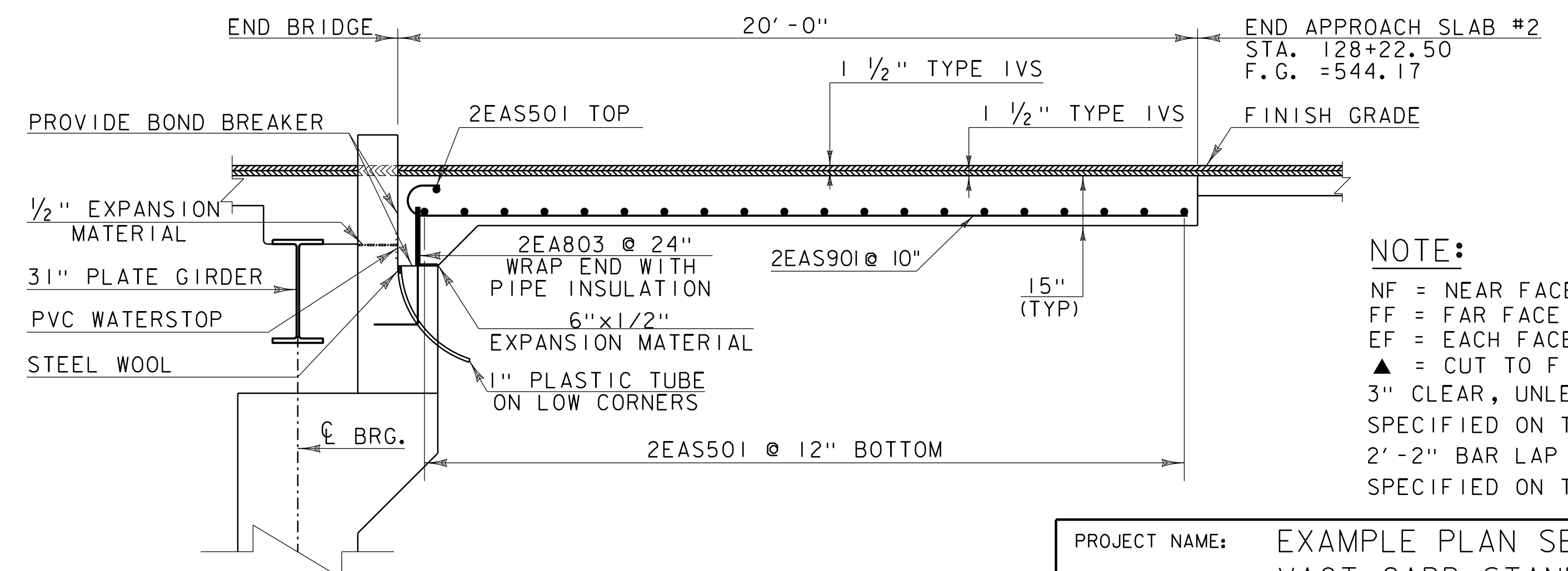
APPROACH SLAB NO. 2 PLAN

SCALE $\frac{3}{8}" = 1' - 0"$



APPROACH SLAB NO. 1 DETAIL

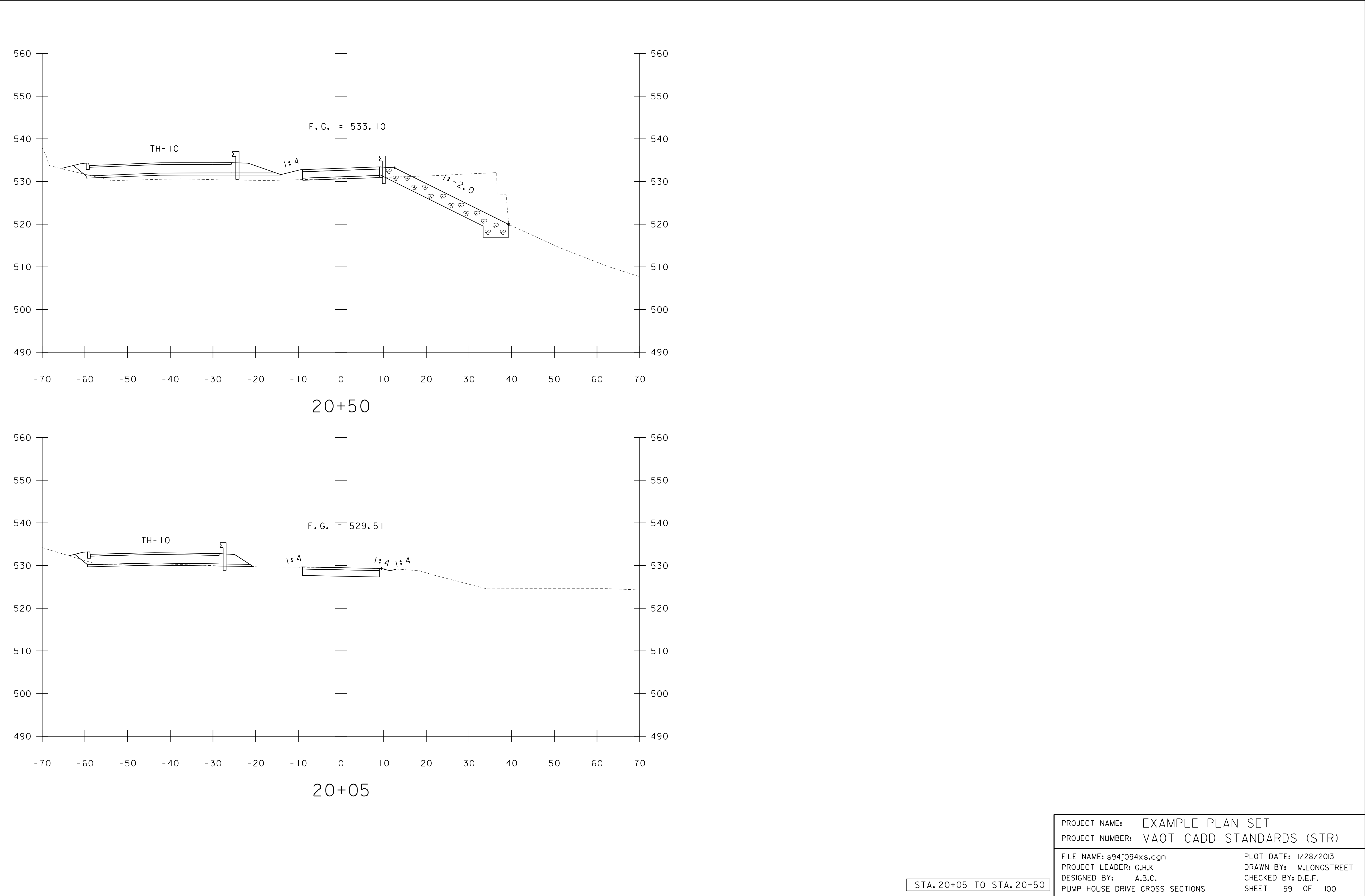
SCALE $\frac{3}{8}" = 1' - 0"$



APPROACH SLAB NO. 2 DETAIL

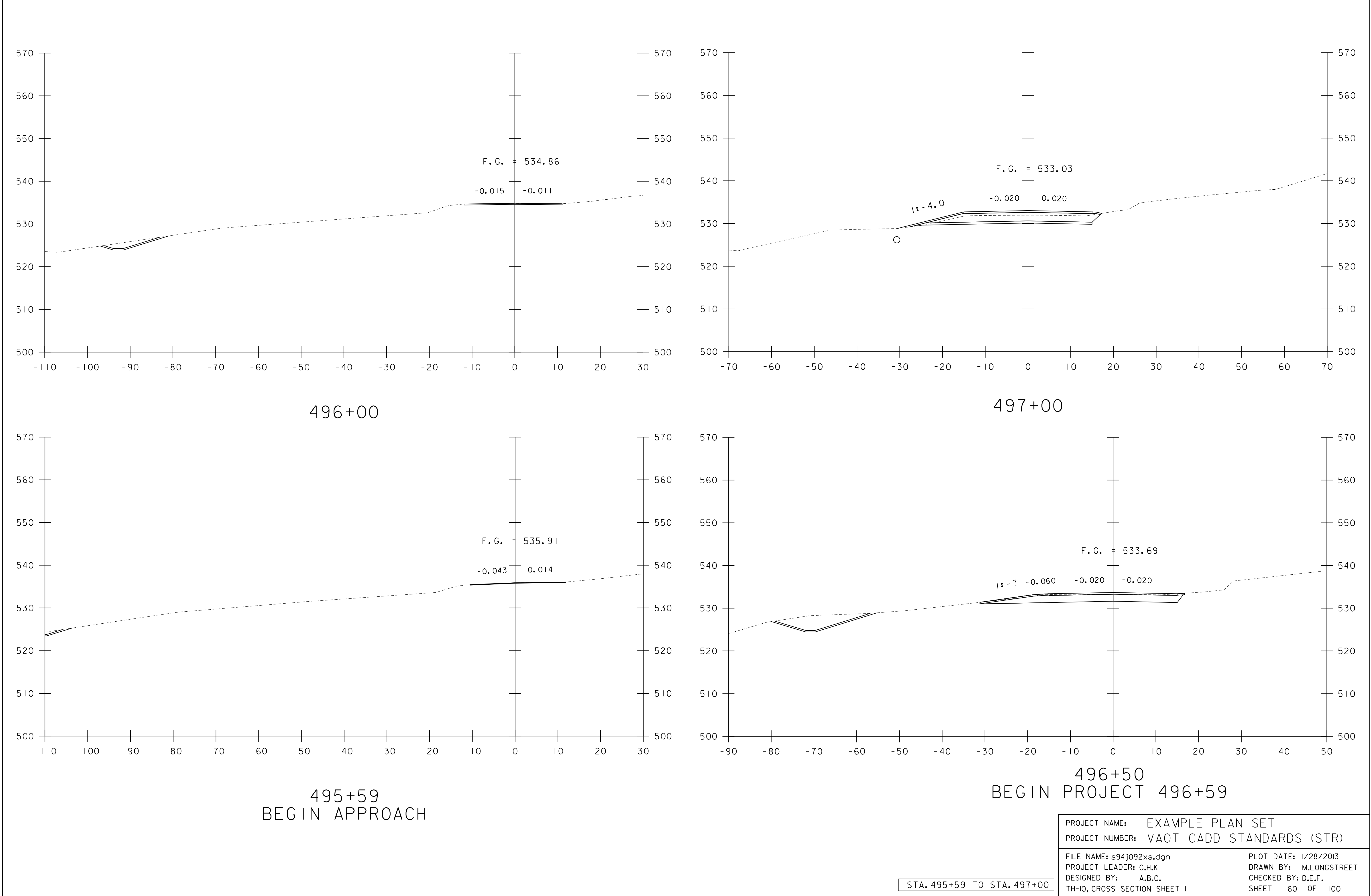
SCALE $\frac{3}{8}" = 1' - 0"$

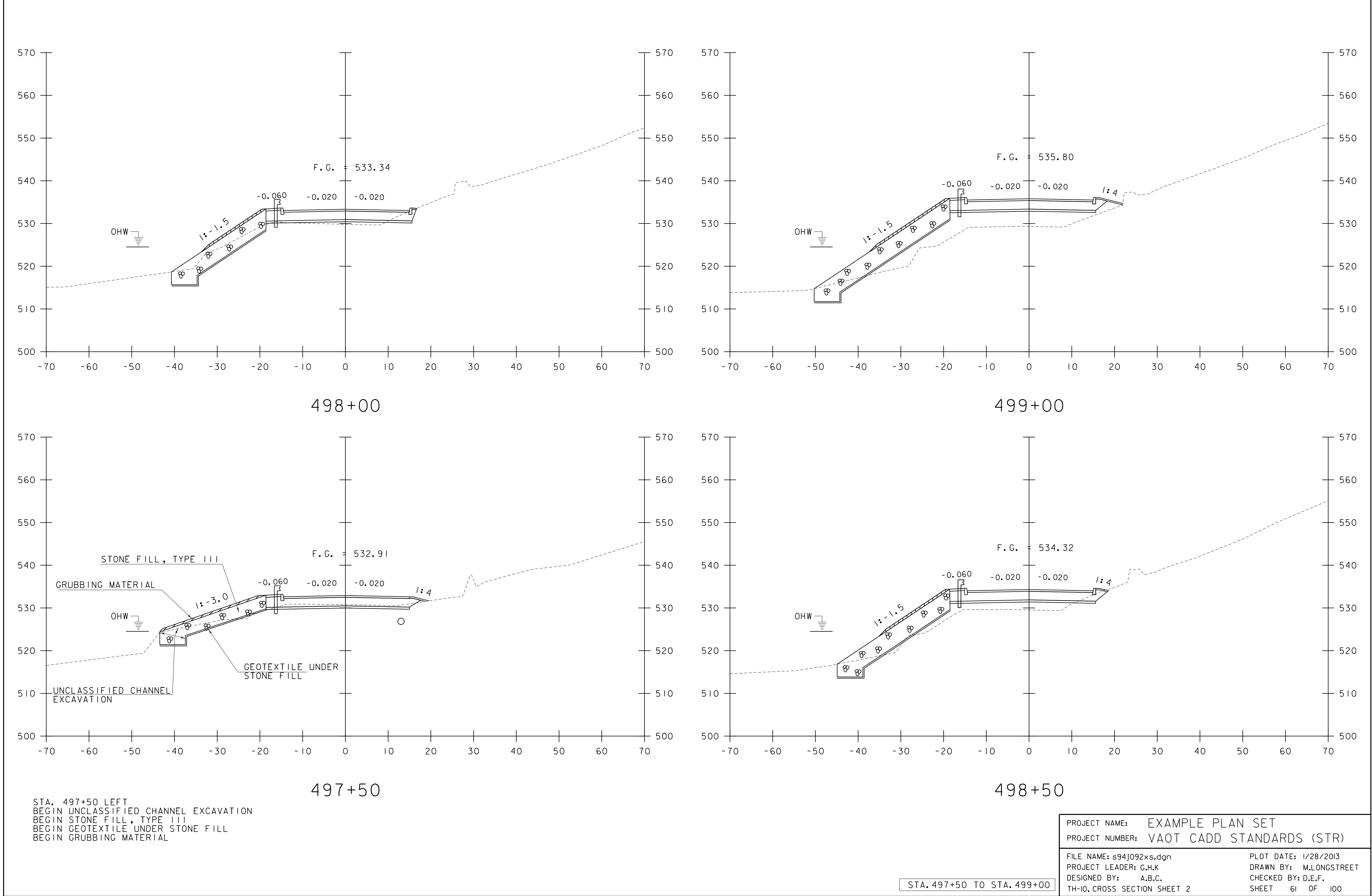
PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s78f6isub2.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: S.SCRIBNER
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
APPROACH SLAB #1& #2 DETAILS	SHEET 58 OF 100

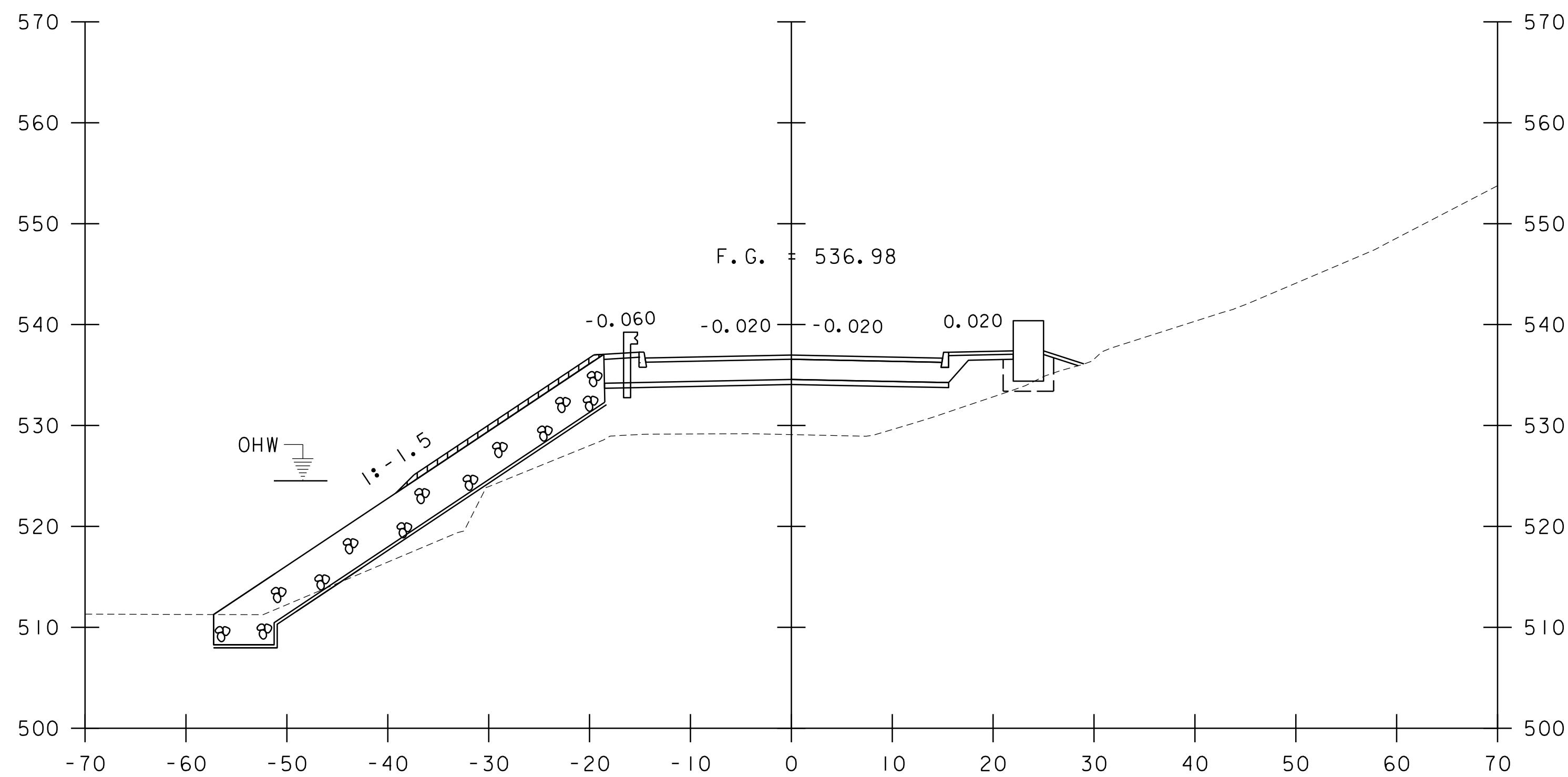


STA. 20+05 TO STA. 20+50

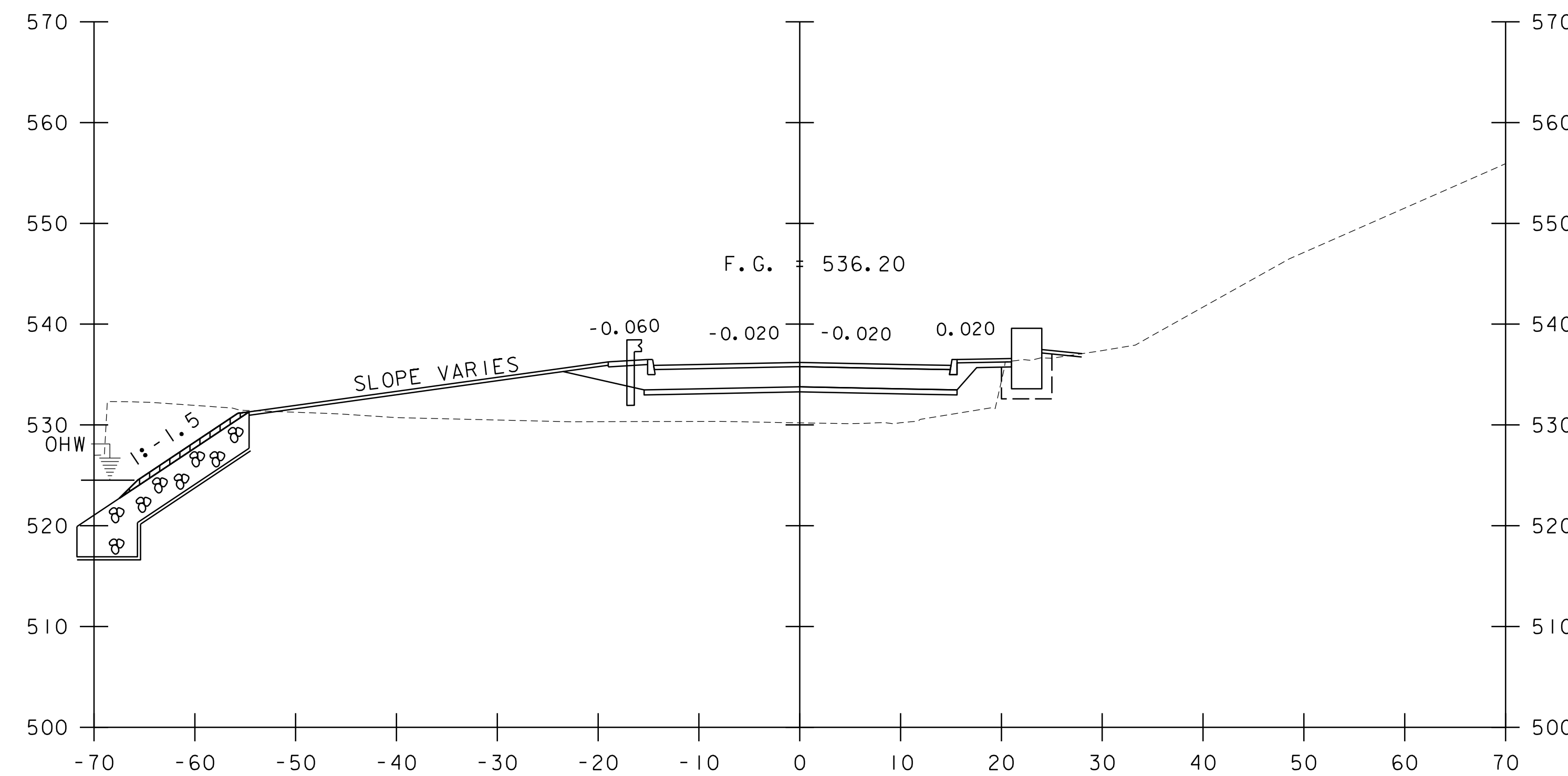
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j094xs.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
PUMP HOUSE DRIVE CROSS SECTIONS	
PLOT DATE:	1/28/2013
DRAWN BY:	M.LONGSTREET
CHECKED BY:	D.E.F.
SHEET	59 OF 100





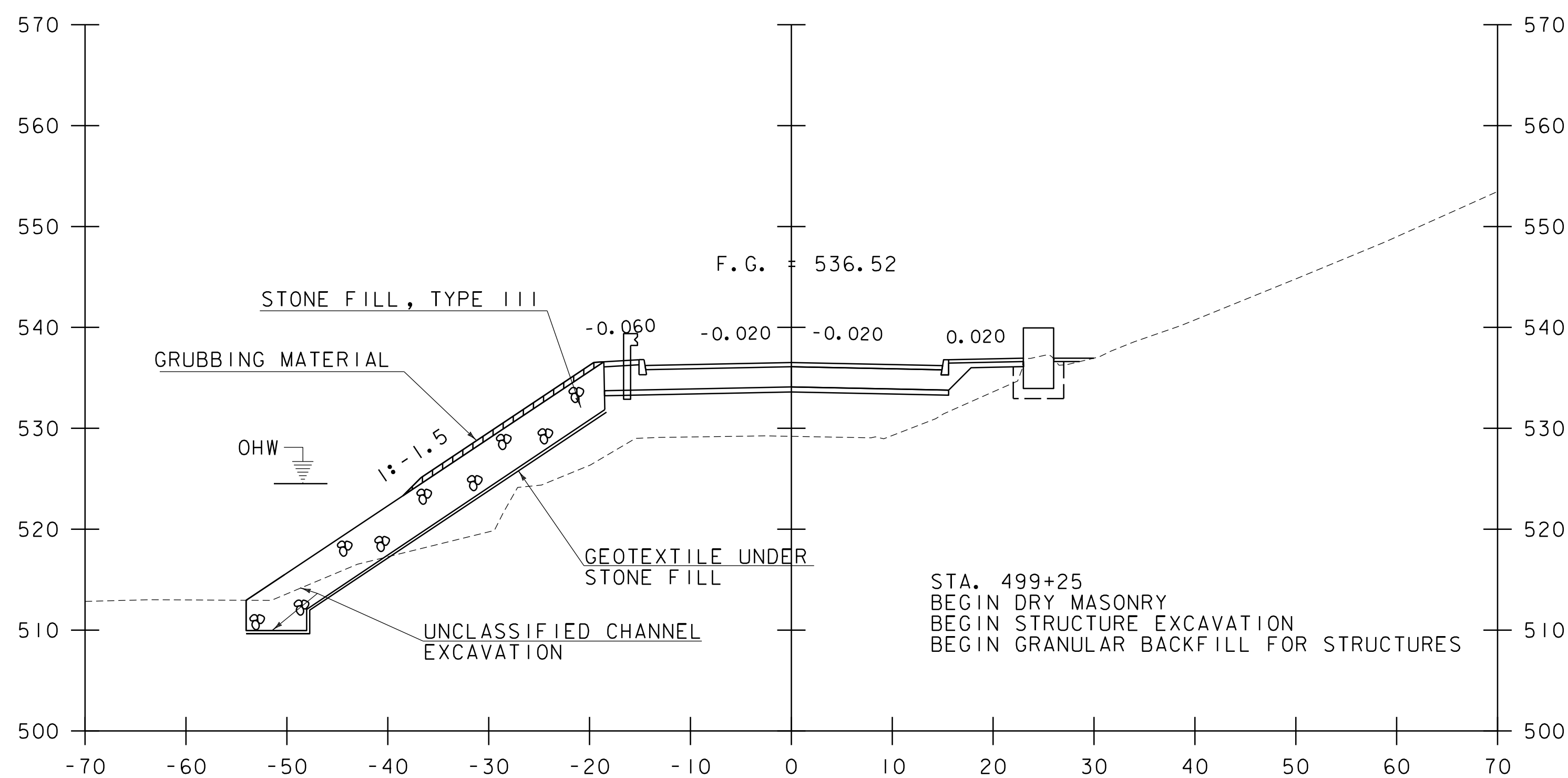


499+50

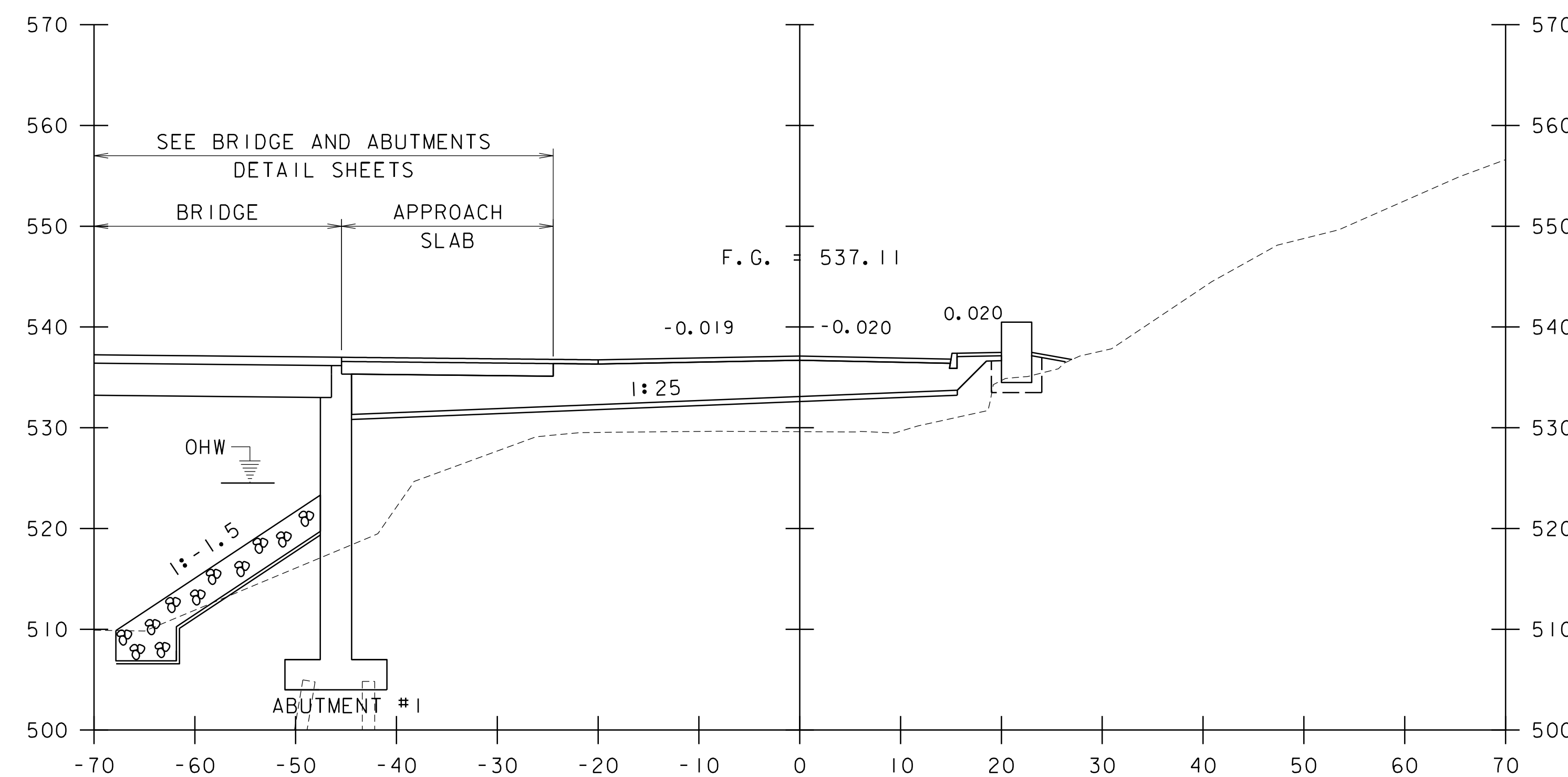


STA. 500+14 LEFT
BEGIN GRUBBING MATERIAL

500+50



499+25

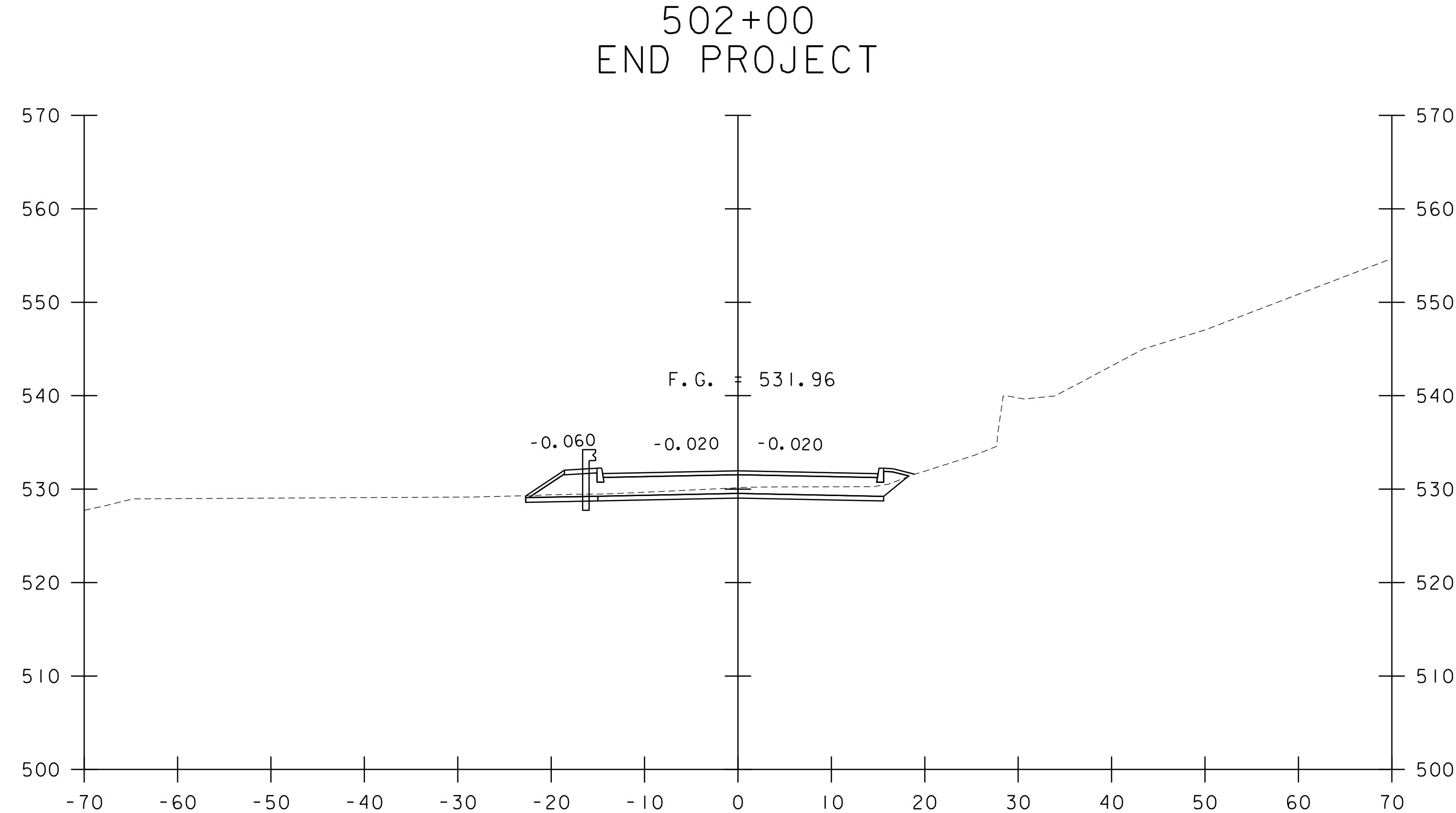
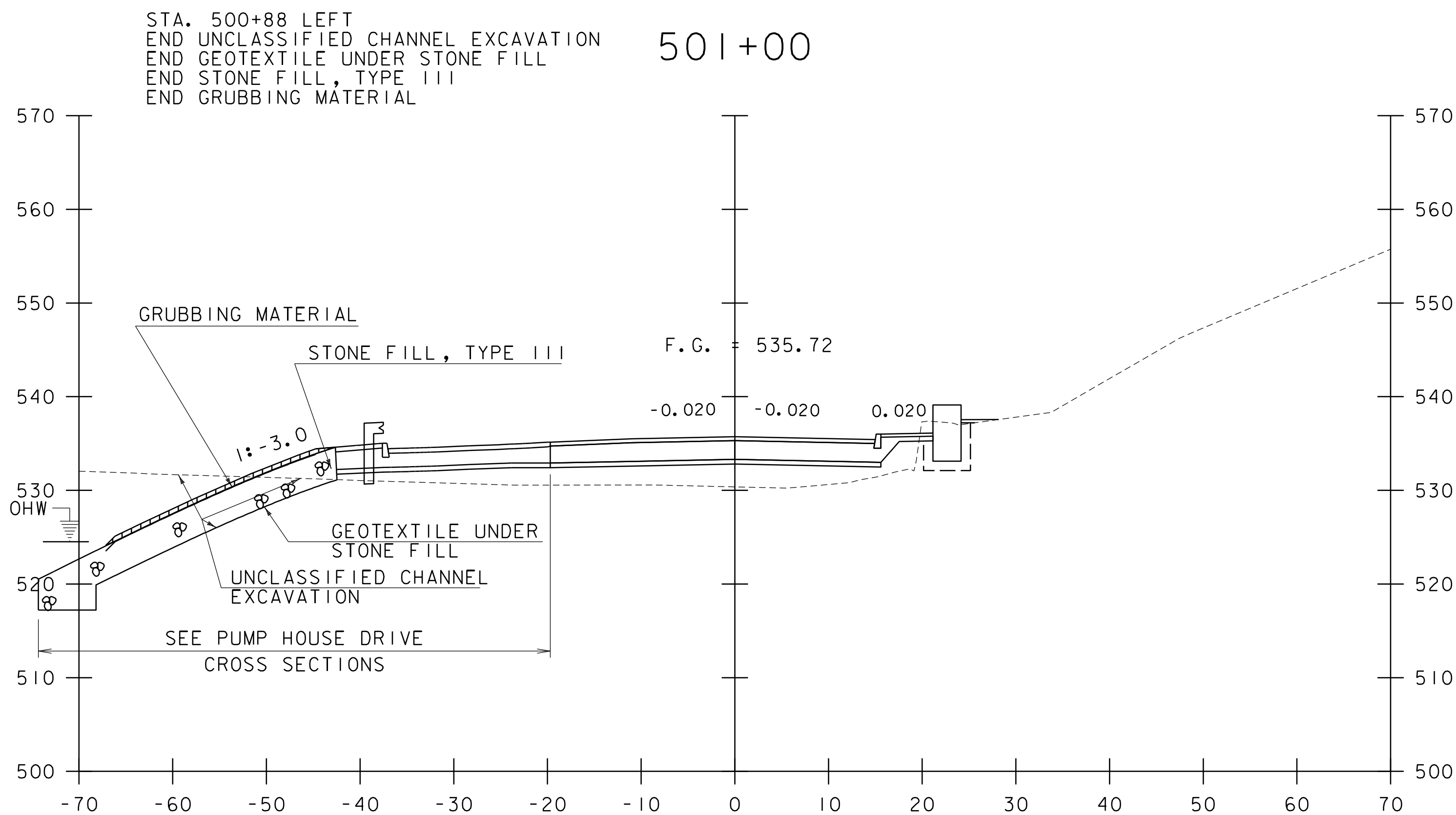
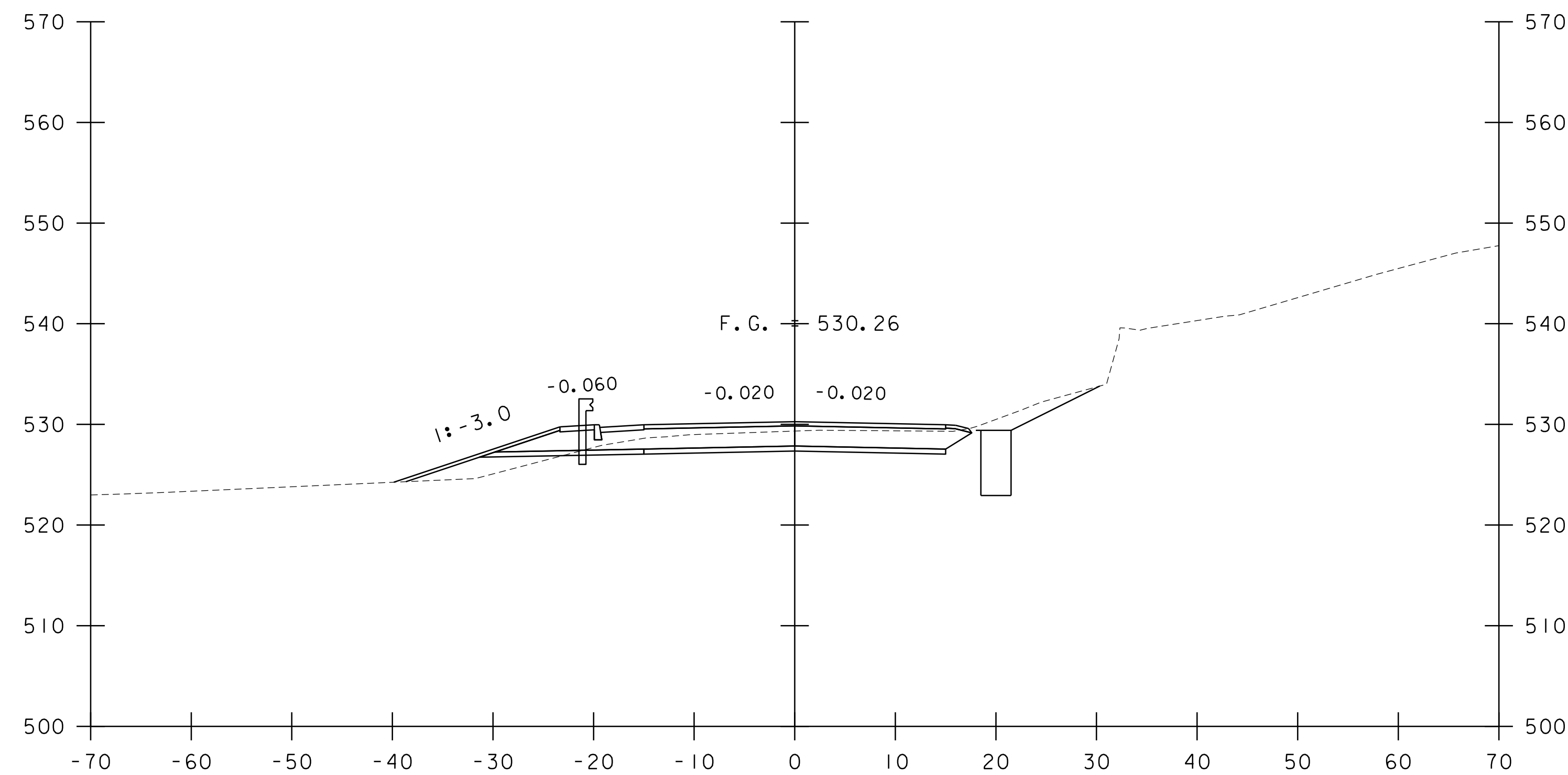
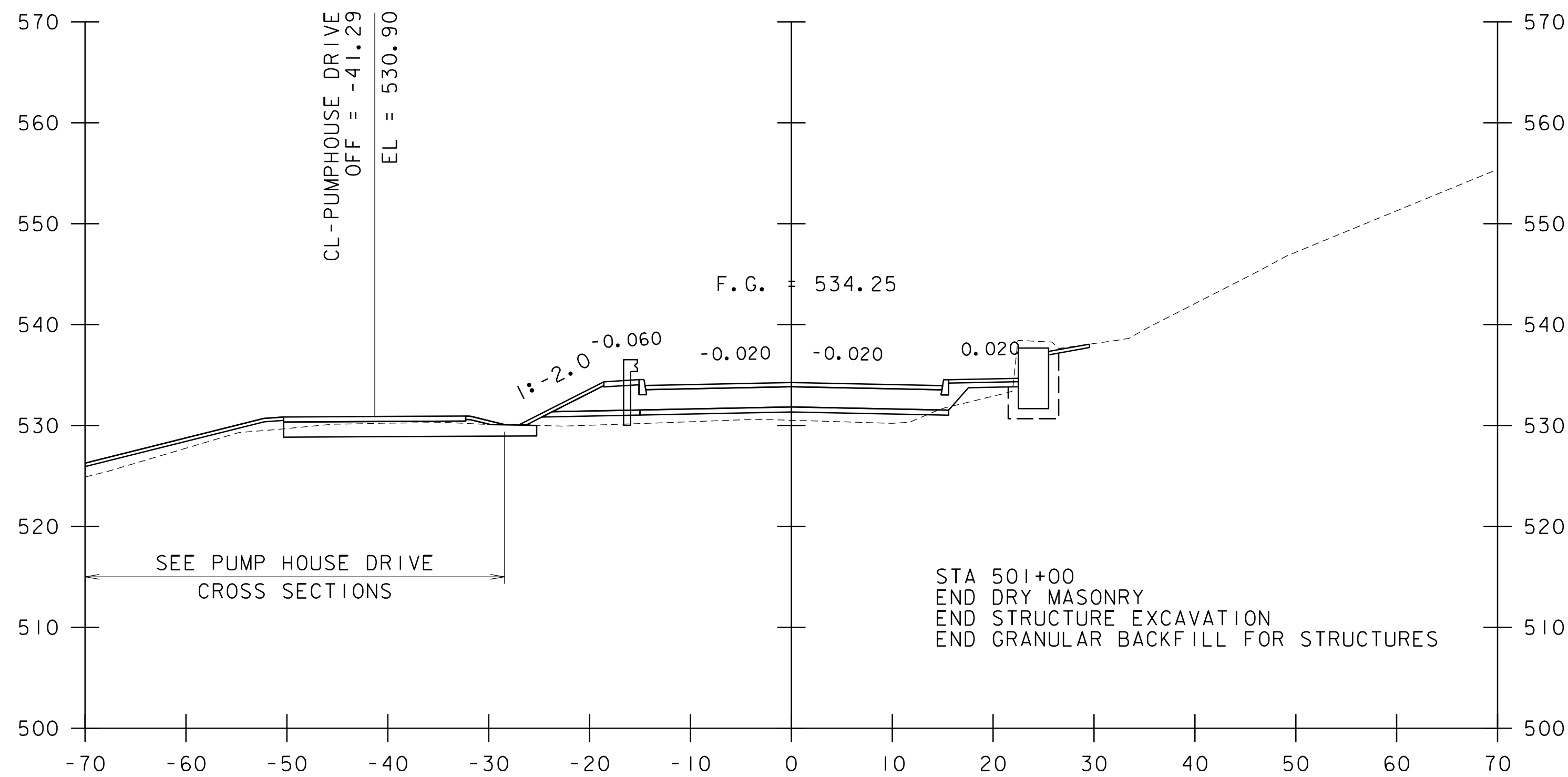


STA. 499+80 LEFT
END GRUBBING MATERIAL

500+00

STA. 499+25 TO STA. 500+50

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-10 CROSS SECTION SHEET 3	SHEET 62 OF 100

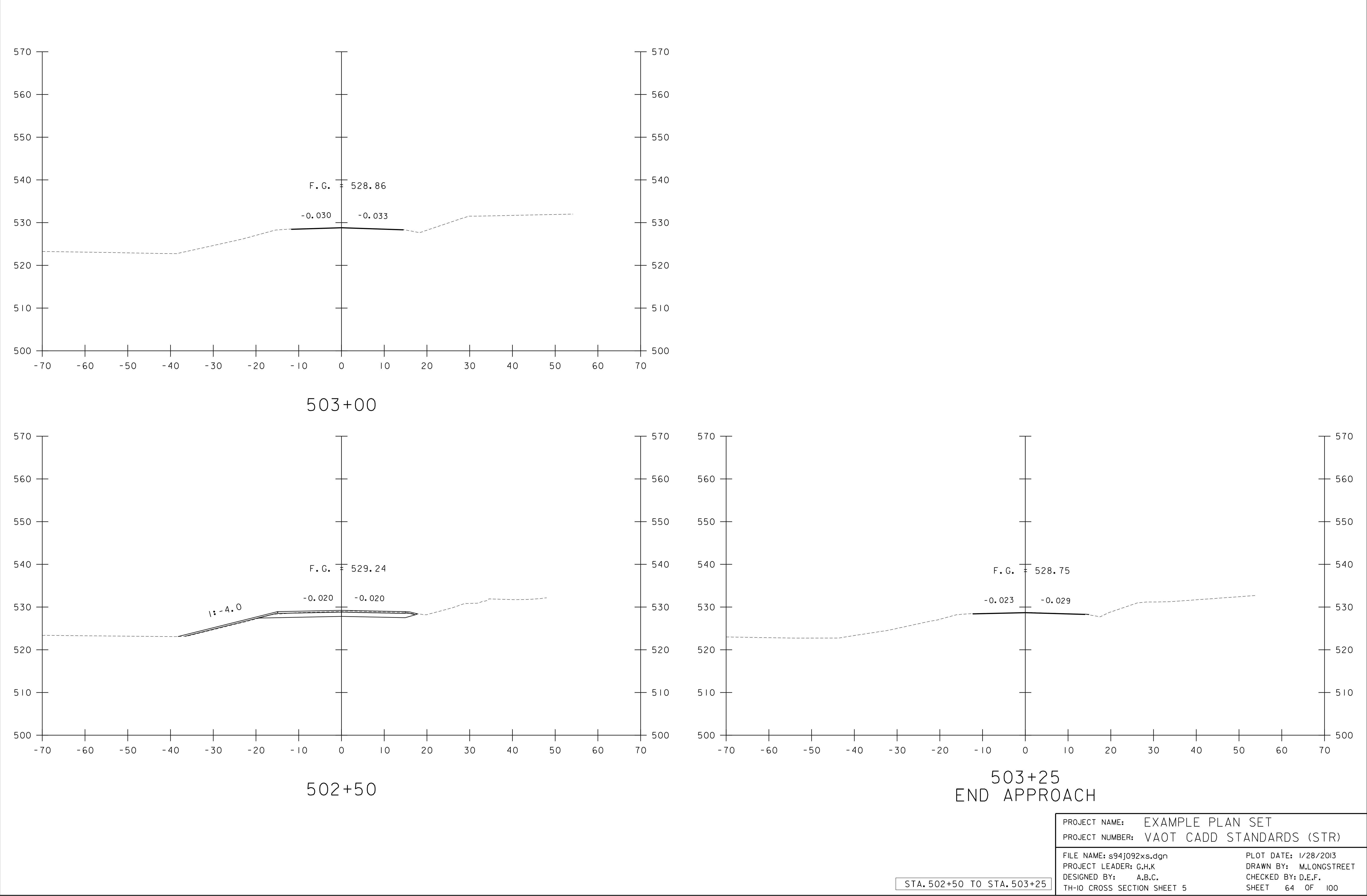


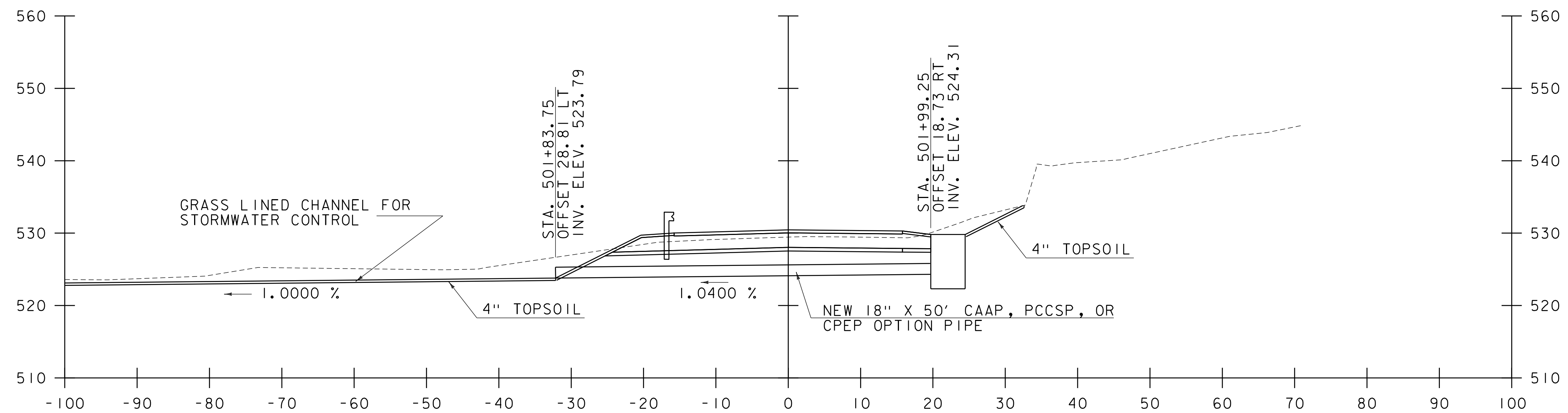
500+65

501+50

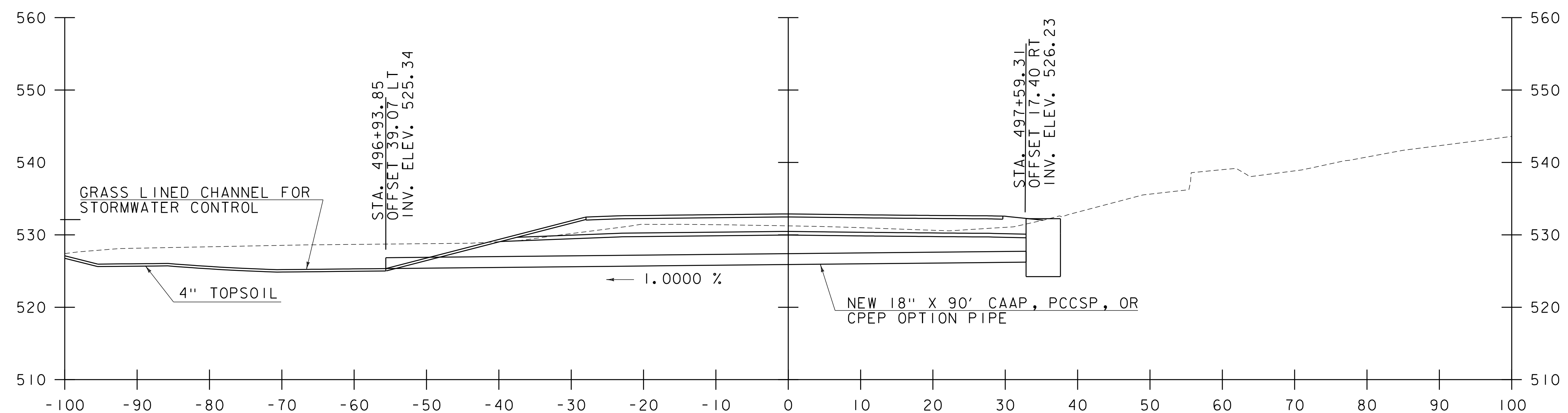
STA. 500+65 TO STA. 502+00

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-10 CROSS SECTION SHEET 4	SHEET 63 OF 100





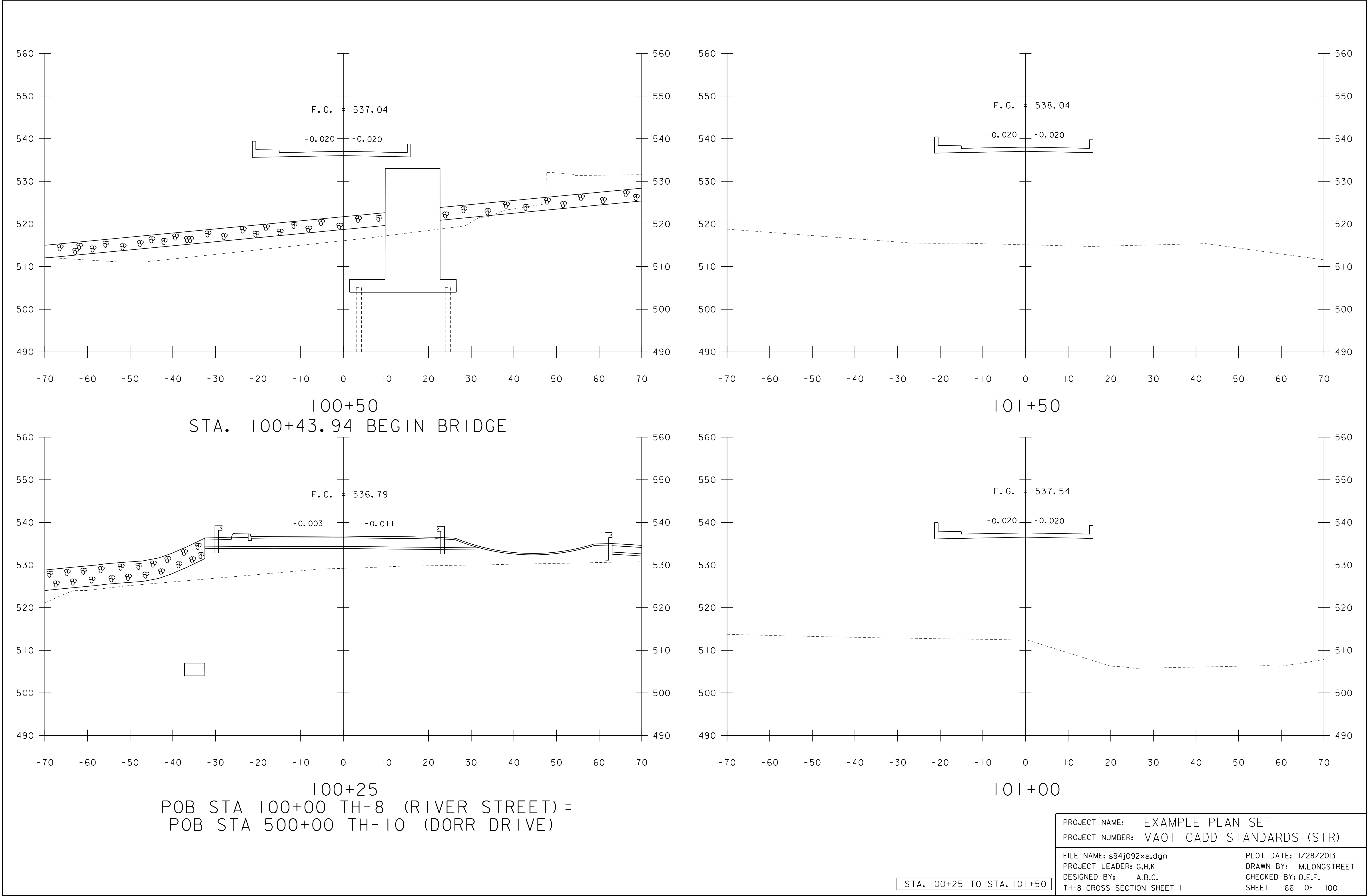
501+93 ASKEW 18 DEG. LT

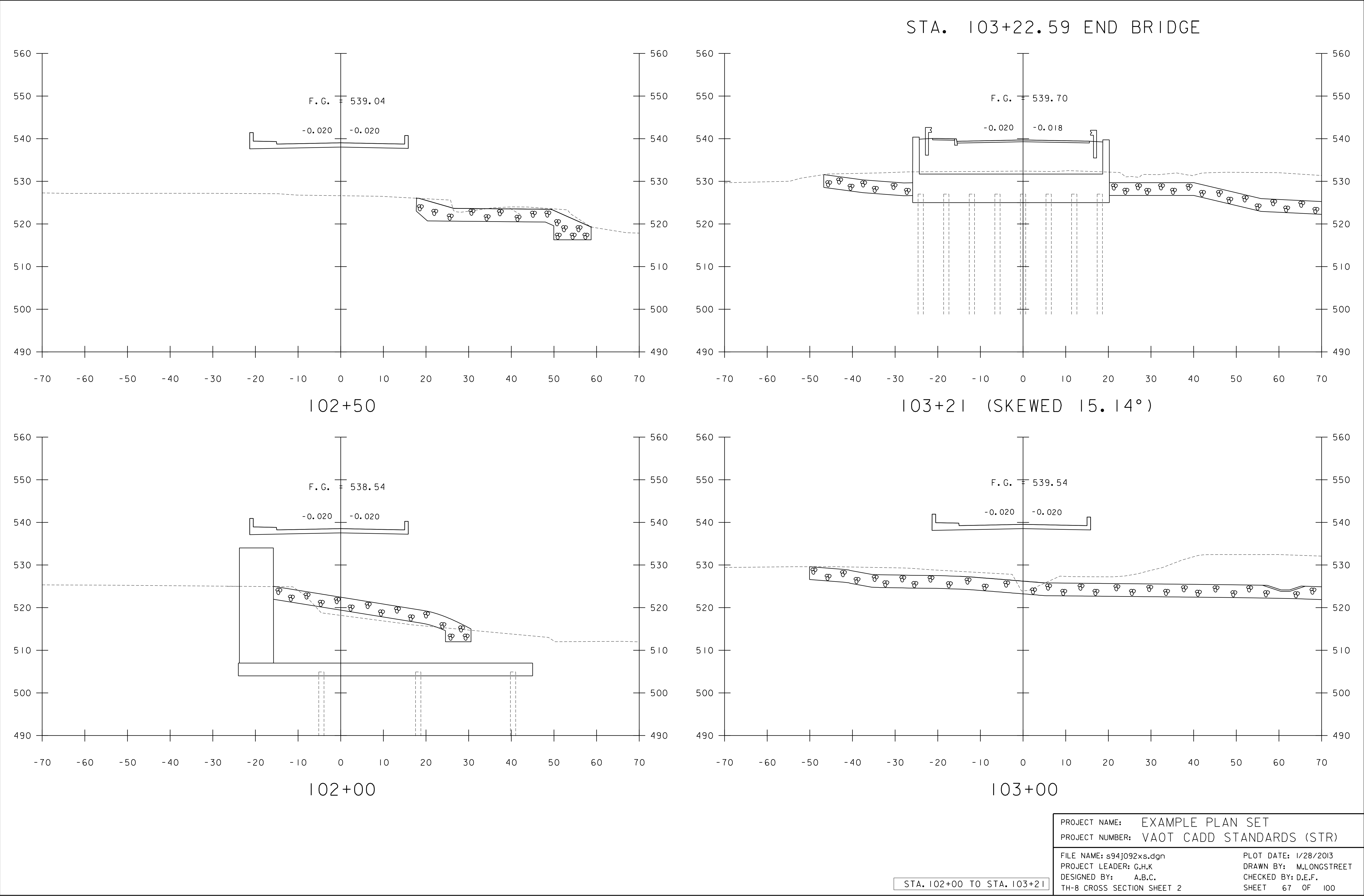


497+30 ASKEW 52.5 DEG. LT

STA. 497+30 AND 501+93

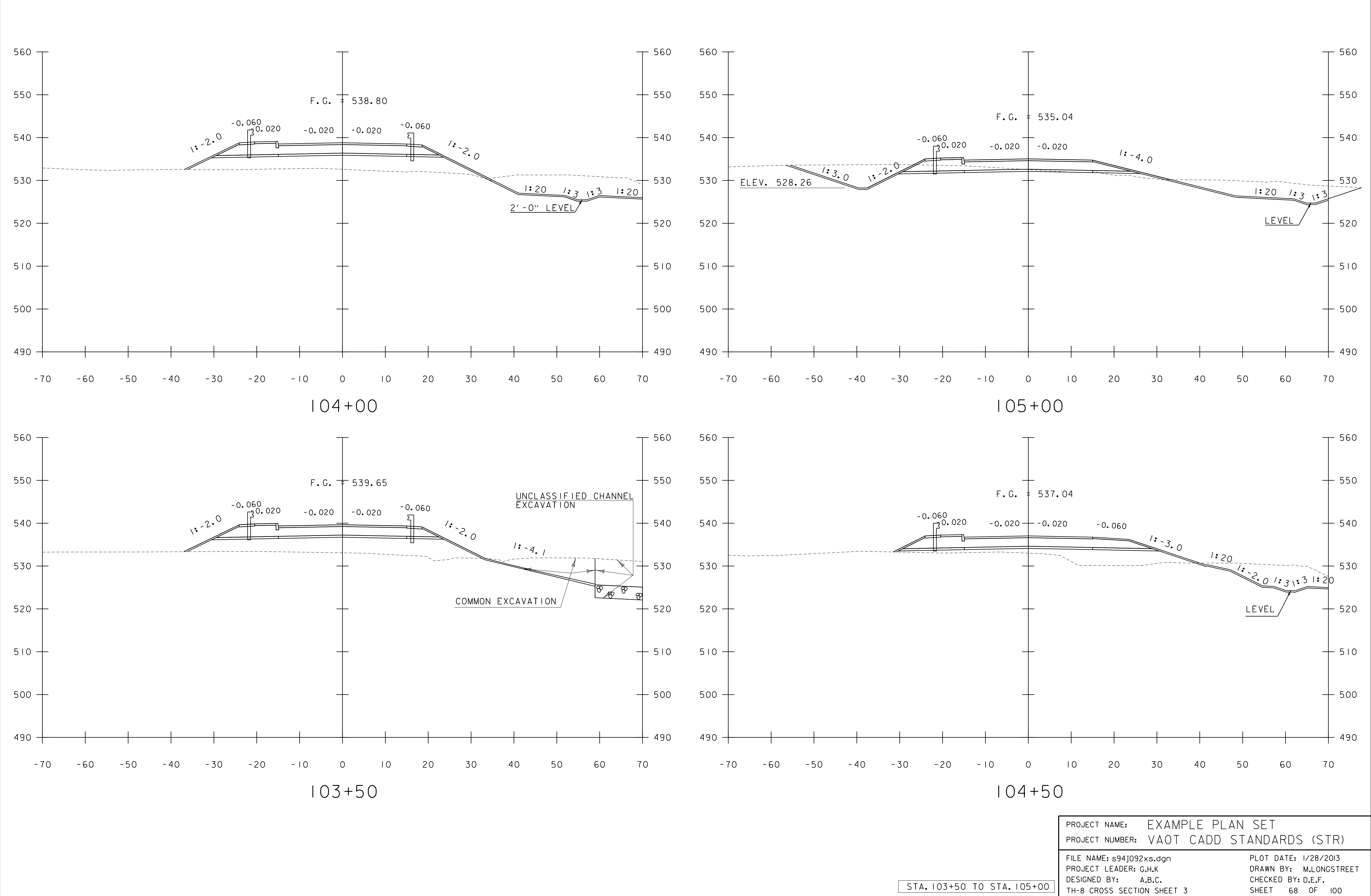
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-10 PIPE PROFILES	SHEET 65 OF 100





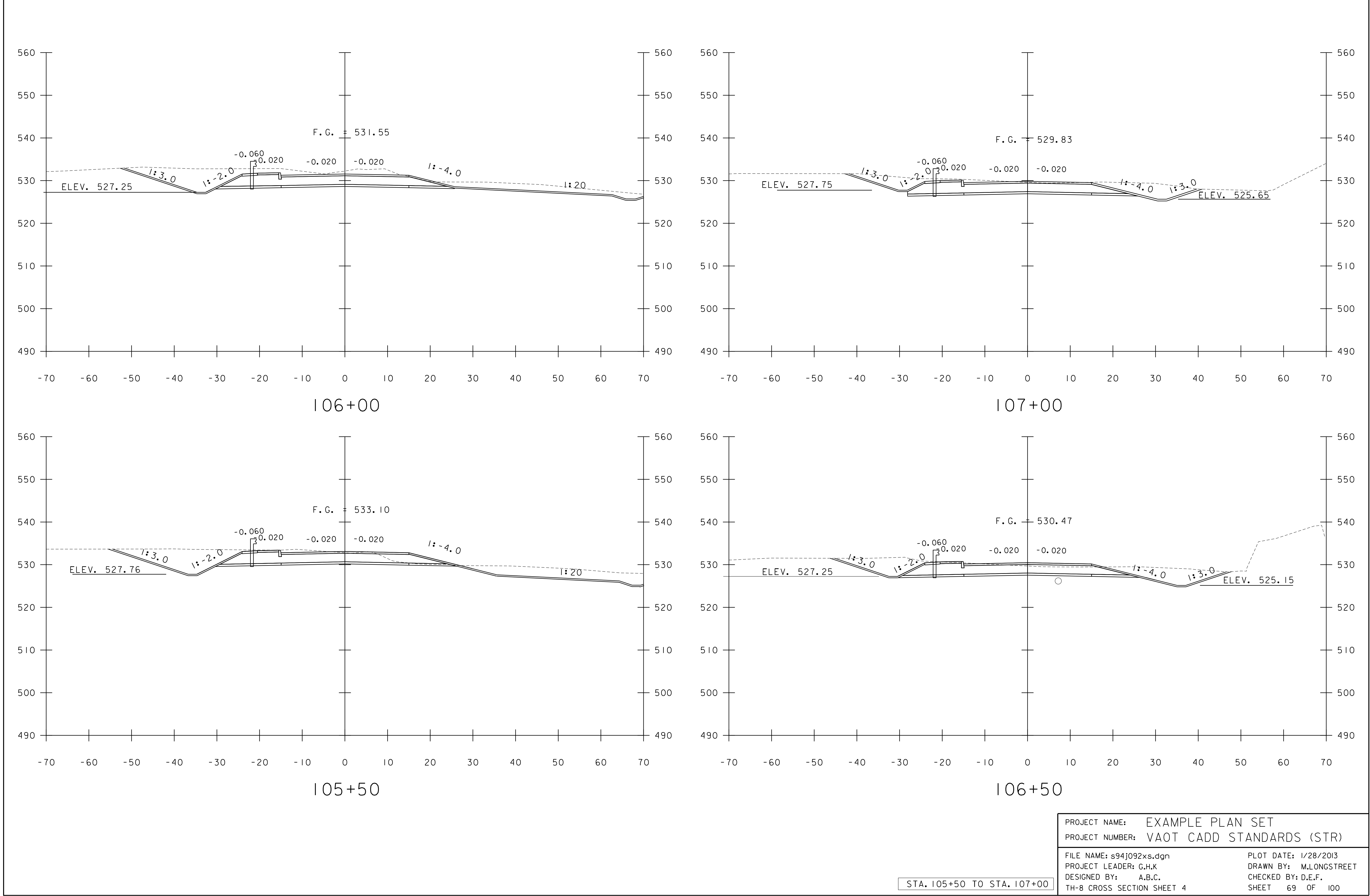
STA. 102+00 TO STA. 103+21

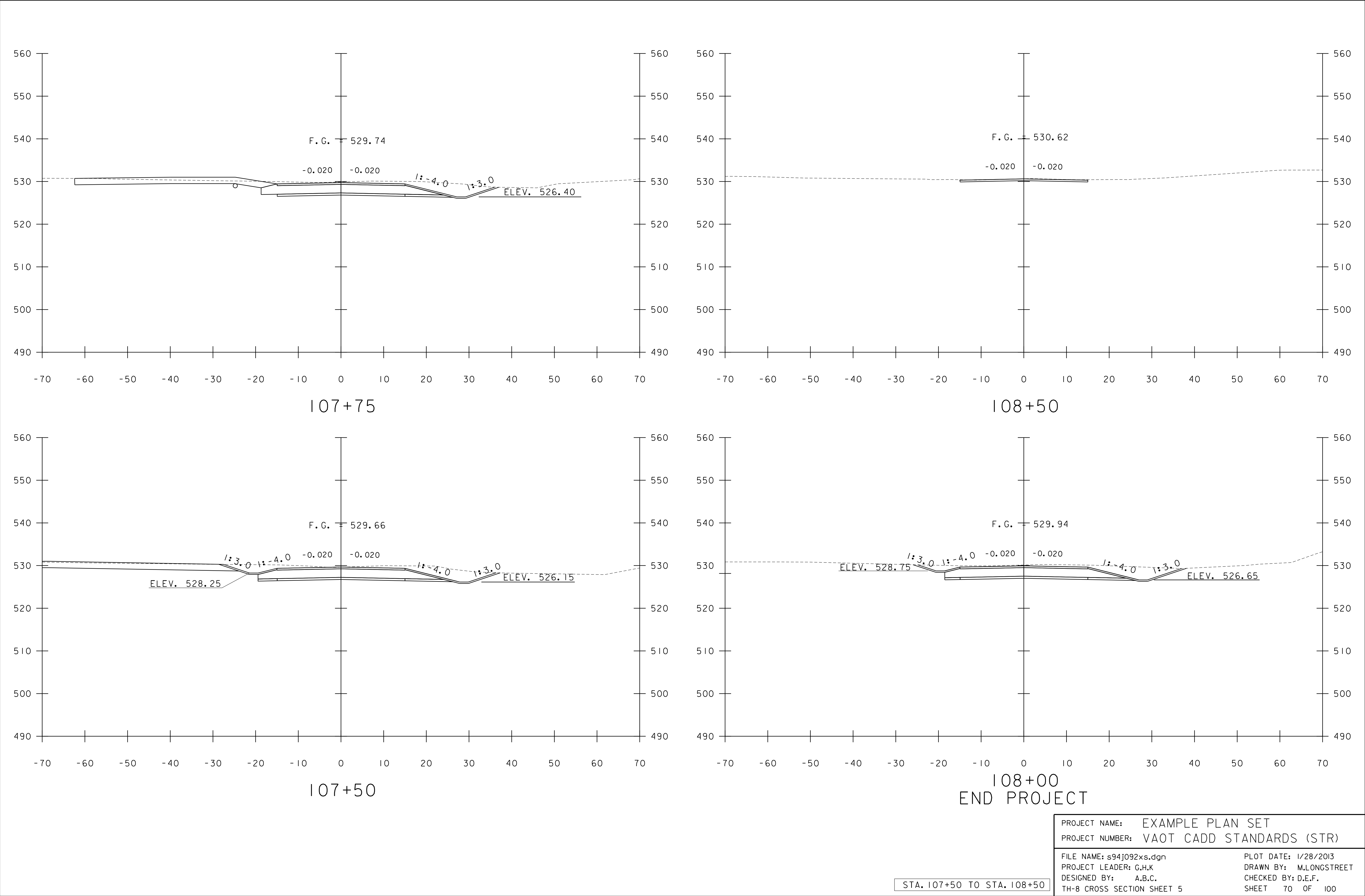
PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-8 CROSS SECTION SHEET 2	SHEET 67 OF 100

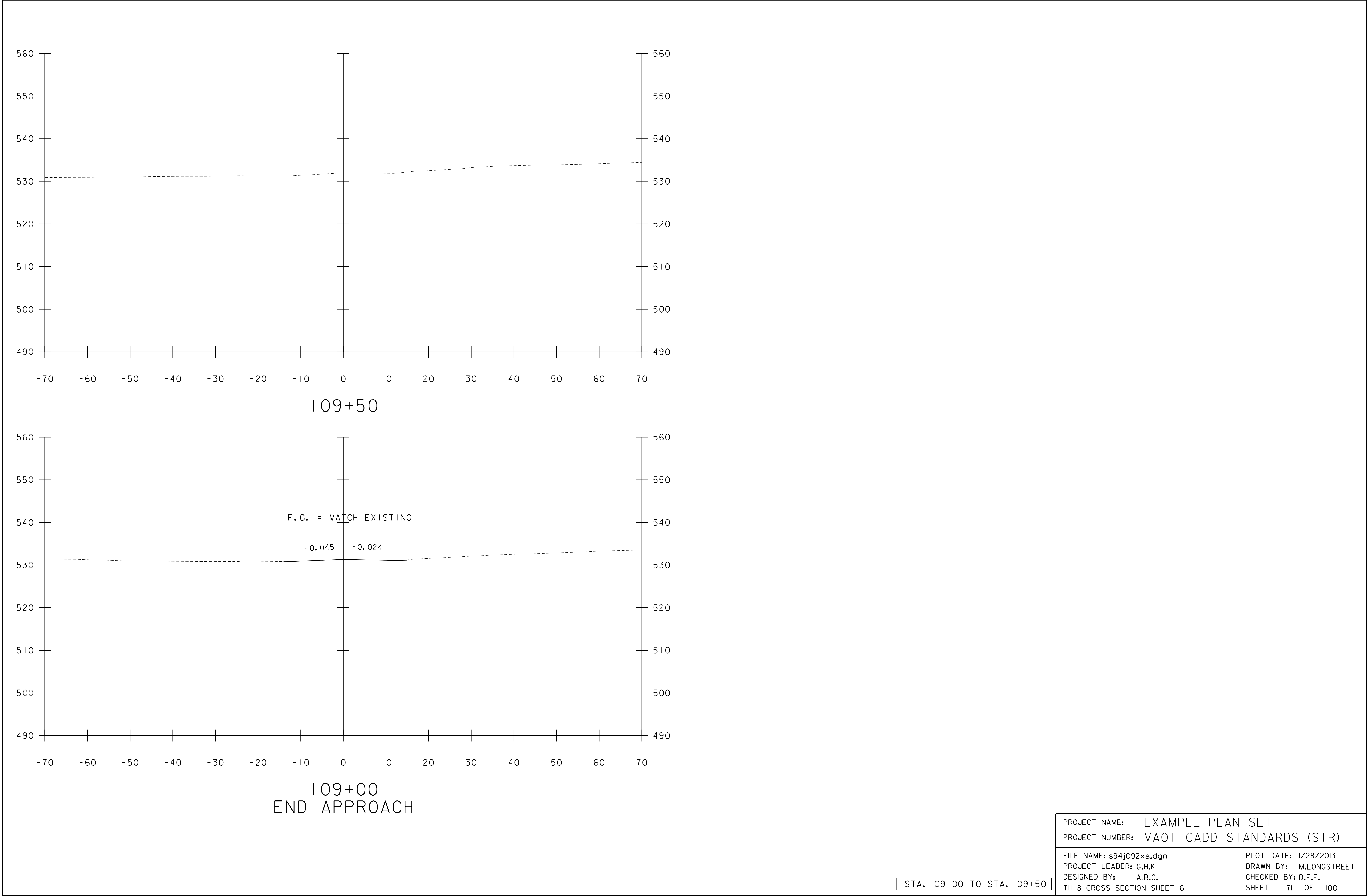


STA. 103+50 TO STA. 105+00

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-8 CROSS SECTION SHEET 3	SHEET 68 OF 100

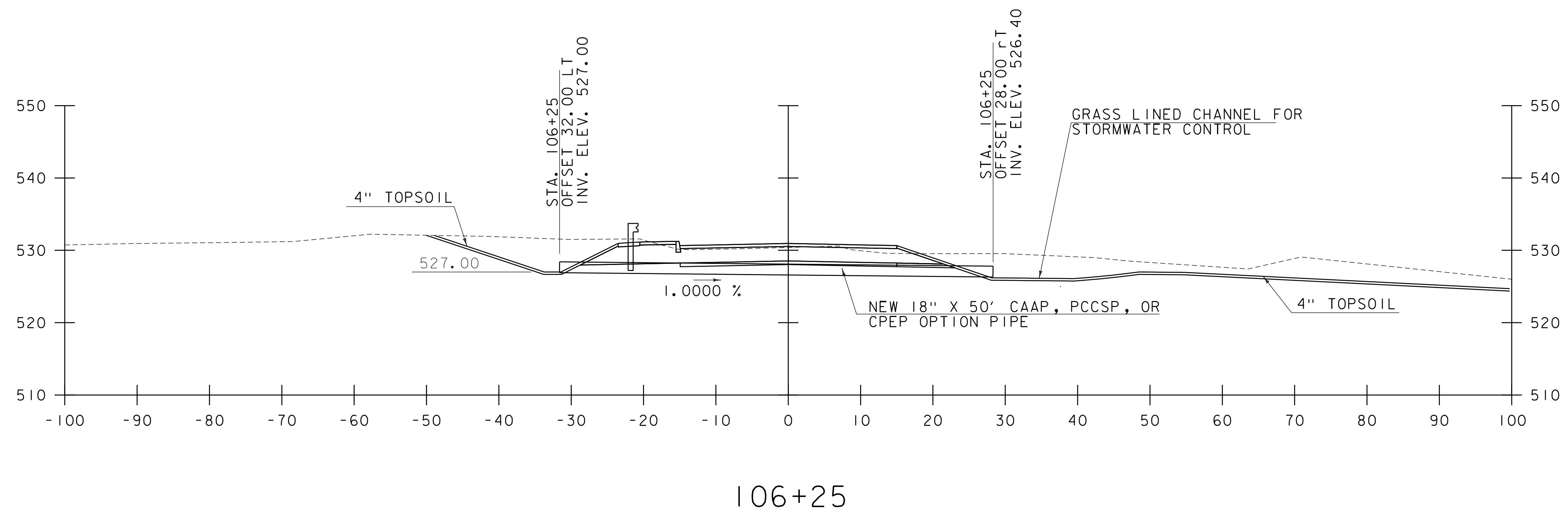




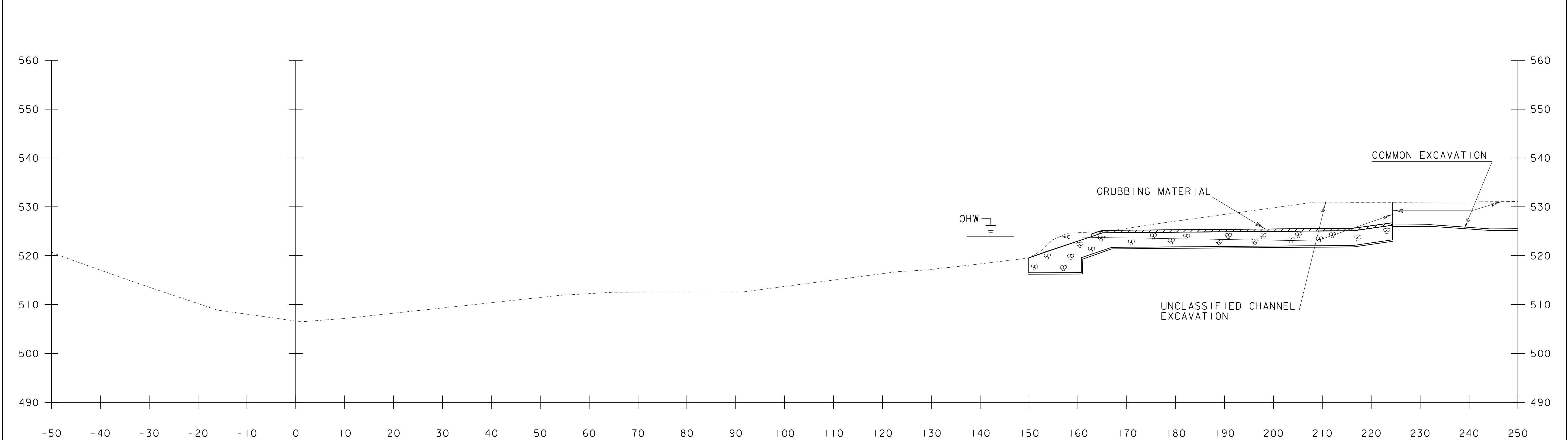


STA. 109+00 TO STA. 109+50

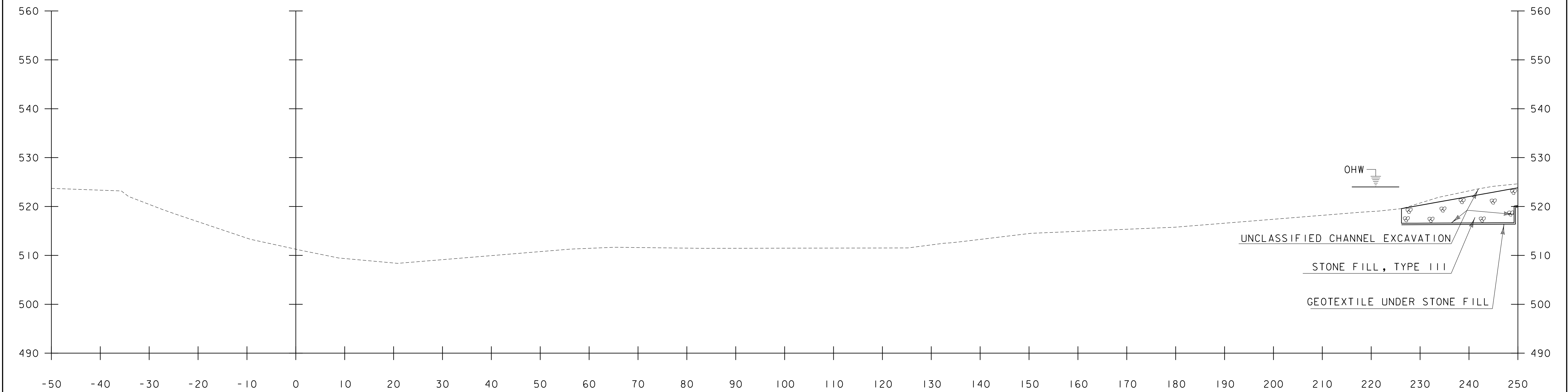
PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092xs.dgn
PROJECT LEADER:	G.H.K
DESIGNED BY:	A.B.C.
TH-8 CROSS SECTION SHEET	6
PLOT DATE:	1/28/2013
DRAWN BY:	M.LONGSTREET
CHECKED BY:	D.E.F.
SHEET	71 OF 100



PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
TH-8 CROSS SECTION SHEET 7	SHEET 72 OF 100



70+25



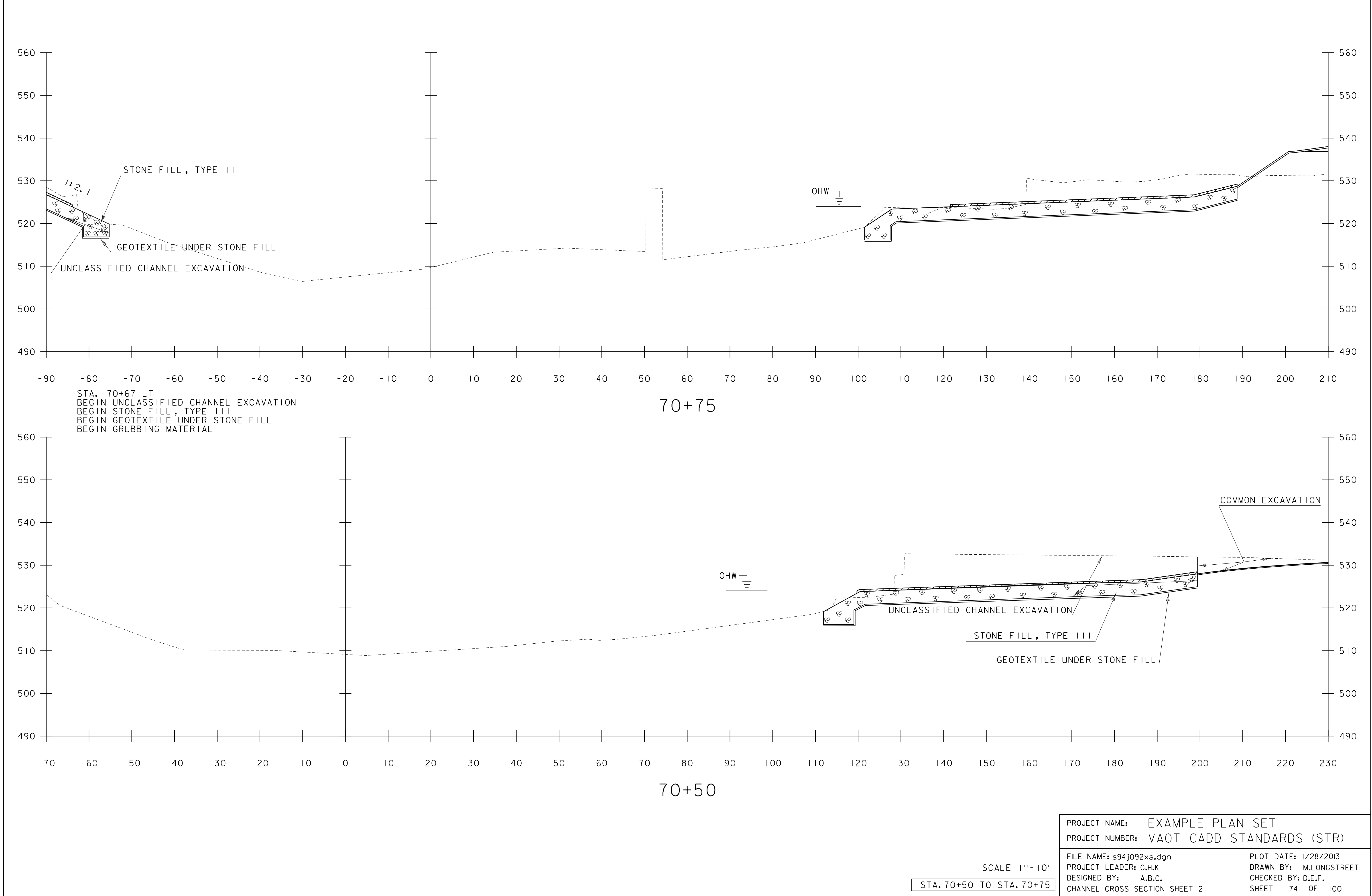
70+00

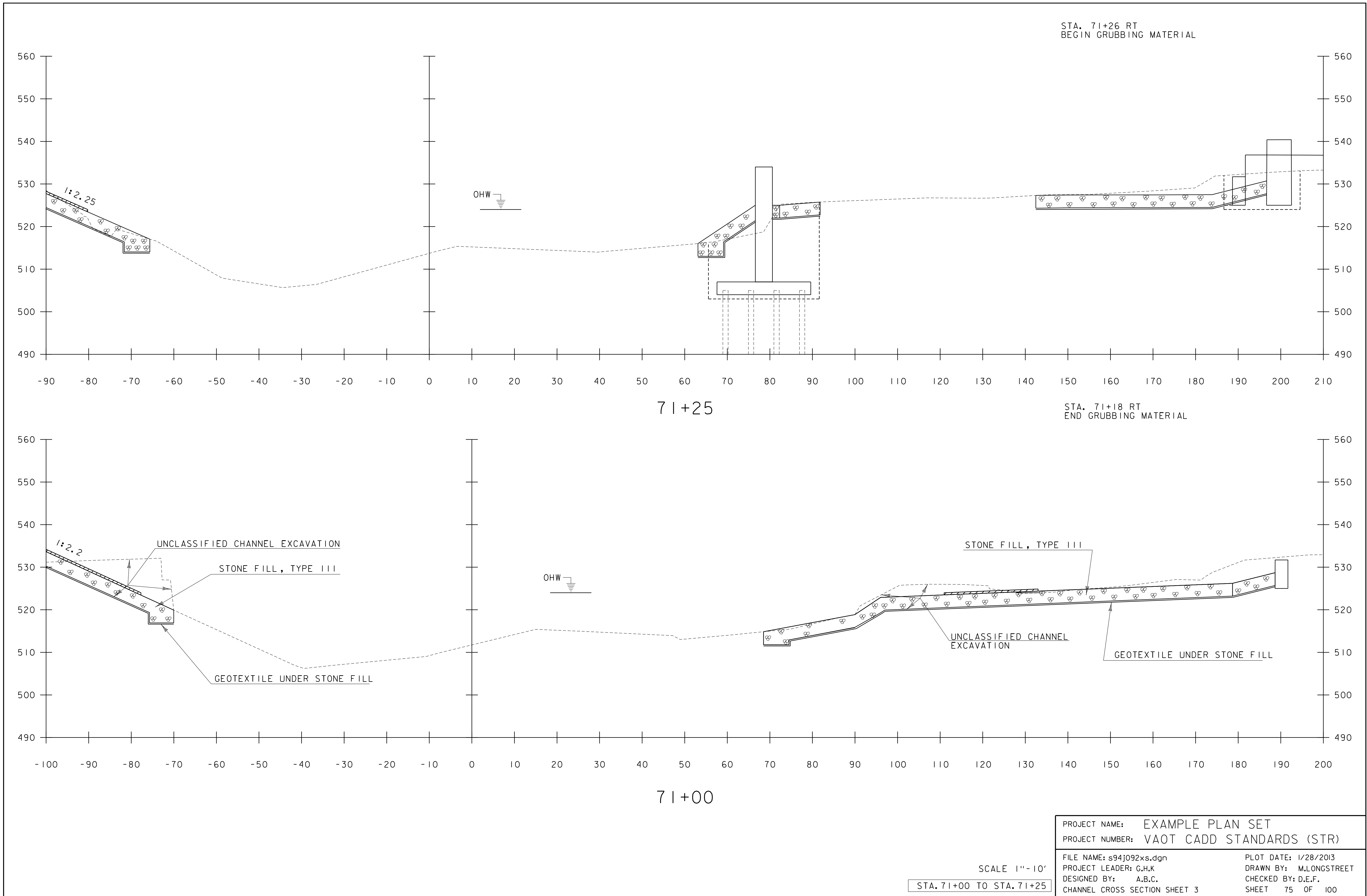
STA. 69+95 RT
BEGIN UNCLASSIFIED CHANNEL EXCAVATION
BEGIN STONE FILL, TYPE III
BEGIN GEOTEXTILE UNDER STONE FILL
BEGIN GRUBBING MATERIAL

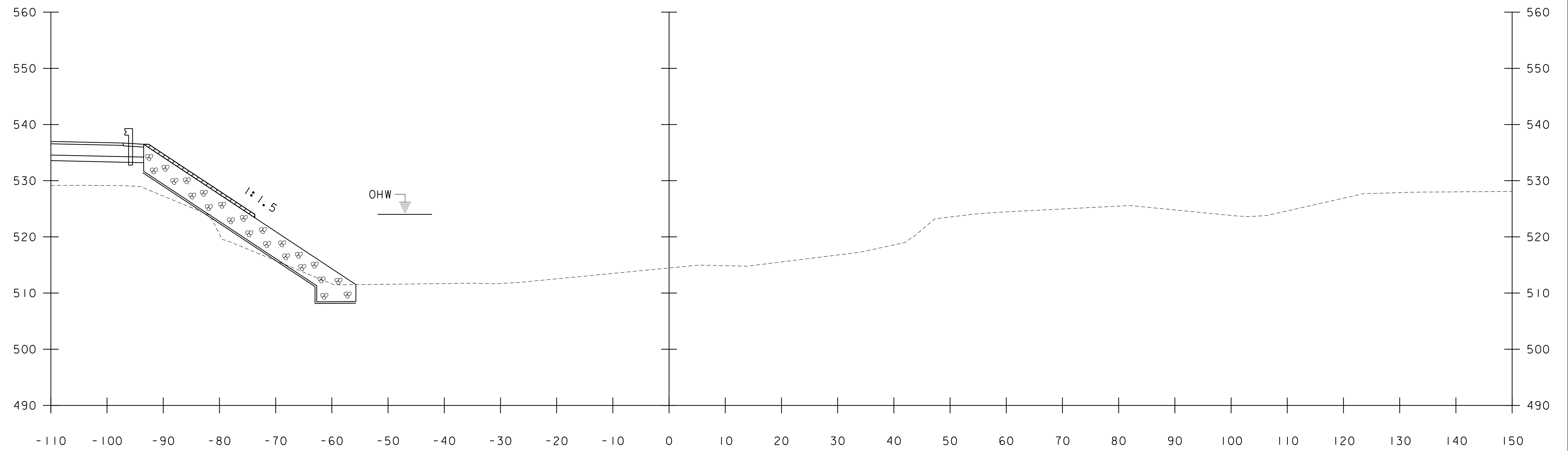
SCALE 1"=10'

STA. 70+00 TO STA. 70+25

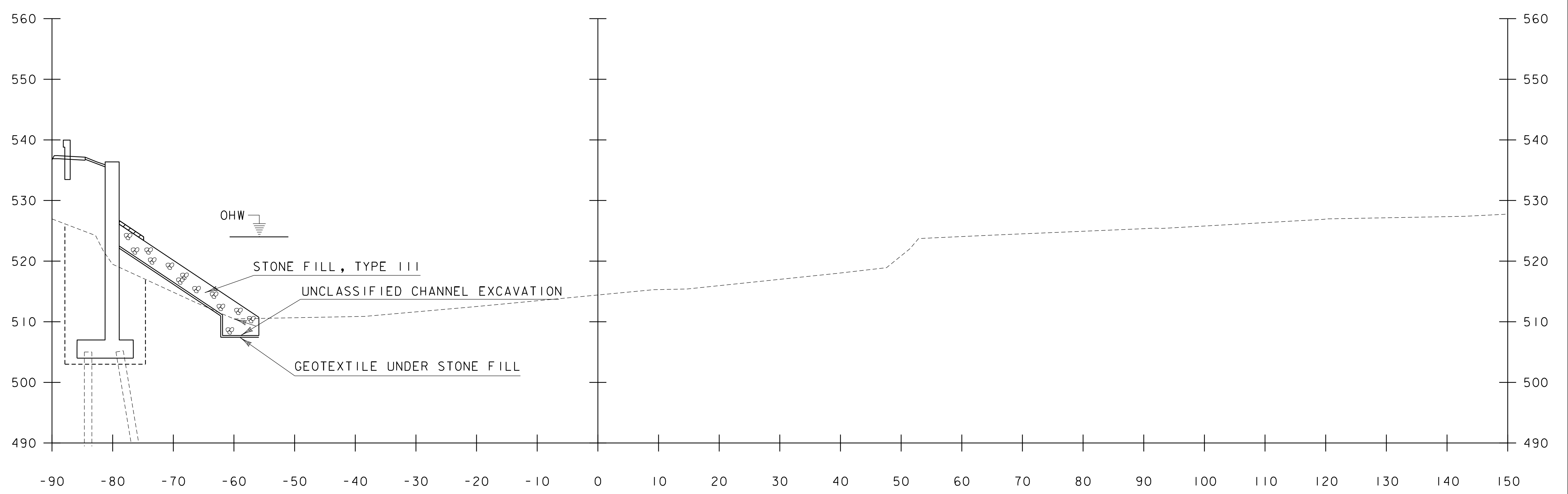
PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
CHANNEL CROSS SECTION SHEET 1	SHEET 73 OF 100







72+25



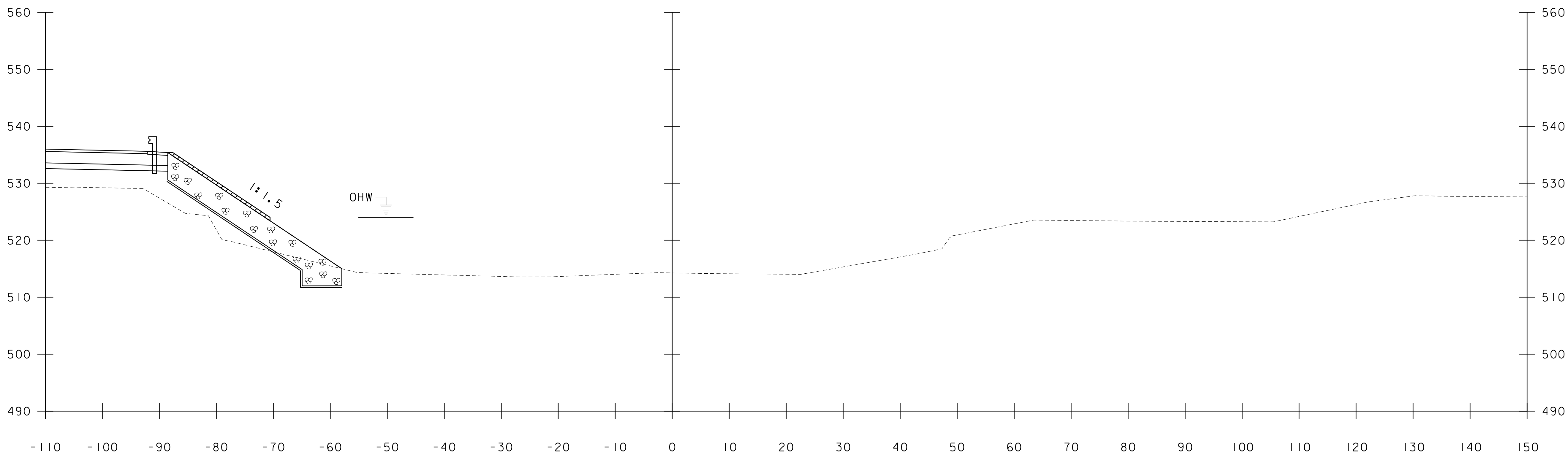
72+00

STA. 71+86 LT
BEGIN GRUBBING MATERIAL

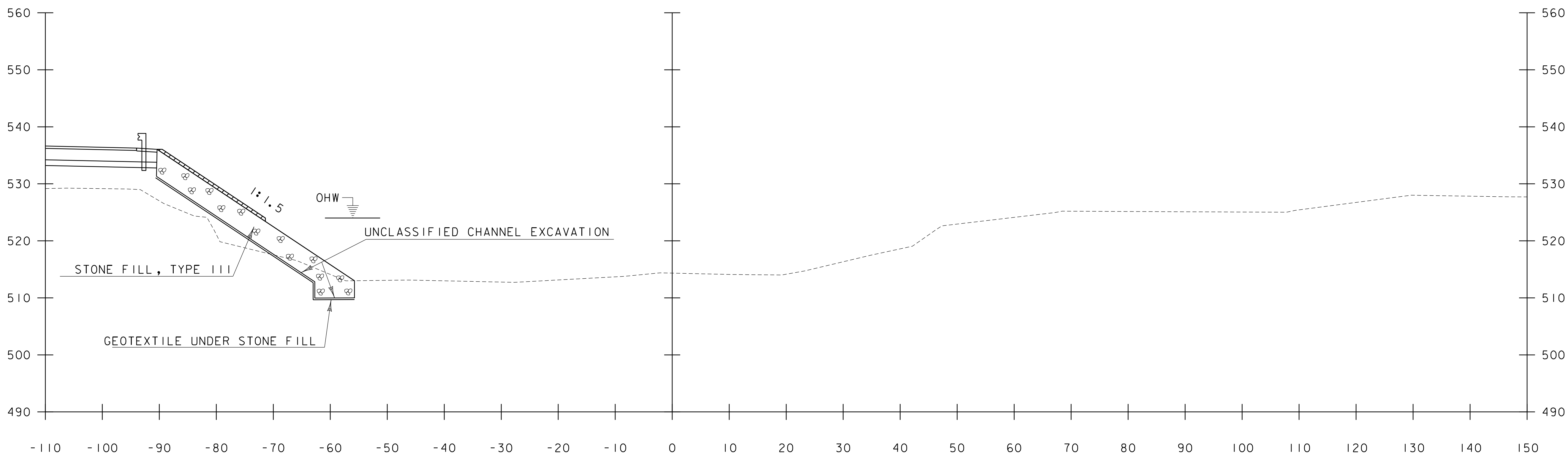
SCALE 1" = 10'

STA. 72+00 TO STA. 72+25

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
CHANNEL CROSS SECTION SHEET 5	SHEET 77 OF 100



72+75

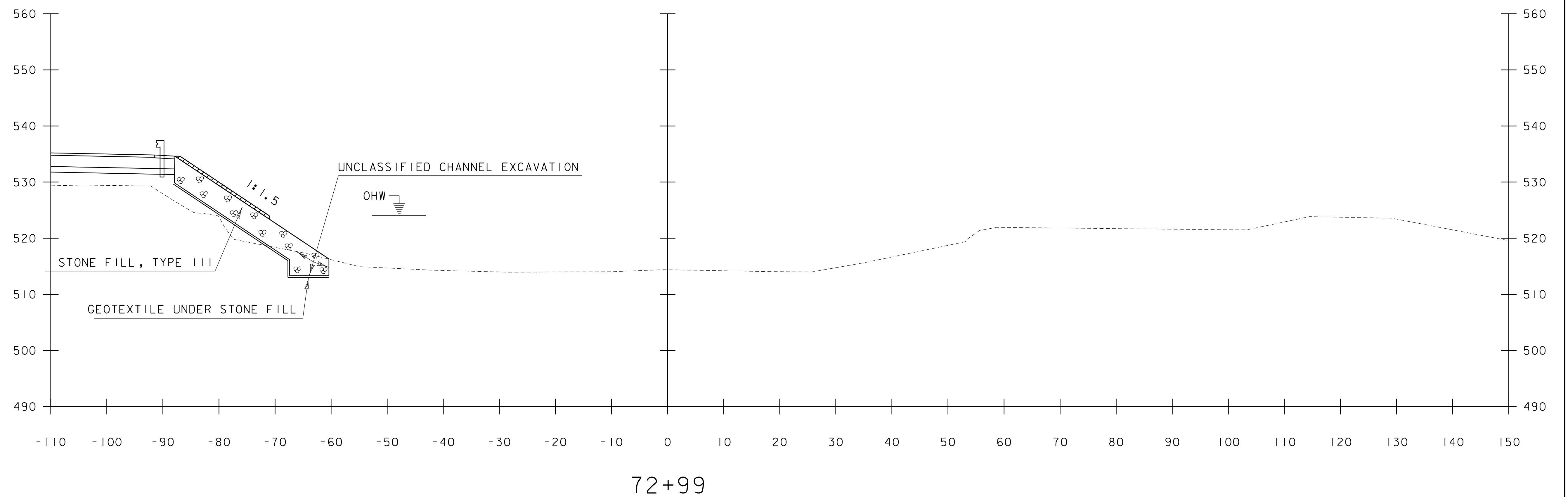


72+50

SCALE 1"=10'

STA. 72+50 TO STA. 72+75

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
CHANNEL CROSS SECTION SHEET 6	SHEET 78 OF 100



PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092xs.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M.LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
CHANNEL CROSS SECTION SHEET 7	SHEET 79 OF 100

SCALE 1" = 10'
STA. 72+99 TO STA. 72+99

EPSC PLAN NARRATIVE example

1.1 PROJECT DESCRIPTION

THIS PROJECT IS AT THE INTERSECTION OF TH 8 (RIVER ST.) AND TH 10 (DORR DR.) IN RUTLAND CITY. THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF BRIDGE NO. 2, SOME APPROACH AND CHANNEL WORK. A NEW TWO-LANE, TWO-SPAN, STEEL GIRDER BRIDGE WILL BE CONSTRUCTED DOWNSTREAM OF THE EXISTING BRIDGE. TRAFFIC WILL BE MAINTAINED ON THE EXISTING BRIDGE, DURING CONSTRUCTION. FOLLOWING COMPLETION OF THE NEW BRIDGE, THE EXISTING BRIDGE, ABUTMENTS AND PIERS WILL BE REMOVED. TOTAL LENGTH OF PROJECT IS 1416 FEET, INCLUDING ROADWAY APPROACHES.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 3.97 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST TWO CONSTRUCTION SEASONS.

1.2 SITE INVENTORY

1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT SITE IS HILLY WITH BROAD FLOODPLAINS. THE PROJECT AREA CONSISTS OF WELL ESTABLISHED VEGETATION WITH A MIXTURE OF TREES, SHRUBS AND GRASS. TH 8 (RIVER ST.), TH 10 (DORR DR.), OTTER CREEK, AND EAST CREEK ARE WITHIN THE PROJECT LIMITS.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE OTTER CREEK AND EAST CREEK ARE THE TWO WATER SOURCES ON THE PROJECT SITE. THE OTTER CREEK IS CLASSIFIED AS SINUOUS, INCISED AND ALLUVIAL. THE STREAM BED CONSISTS OF MOSTLY SILT AND SAND. THE CONFLUENCE OF THE EAST CREEK IS LOCATED APPROXIMATELY 200 FT NORTH OF THE EXISTING BRIDGE. THERE ARE TWO DROP INLETS ON SITE DRAINING FROM THE ROADWAY TO THE OTTER CREEK. THE DRAINAGE AREA IS 245.0 SQ. MI. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES.

1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF HARDWOOD TREES, UNDERGROWTH AND GRASS. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY REPLACEMENT OF THE EXISTING BRIDGE. UPON PROJECT COMPLETION, THE CHANNEL WILL BE ARMORED WITH STONE FILL TYPE IV AS SPECIFIED ON THE PLANS. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WINDSOR, VERMONT. SOILS ON THE PROJECT SITE ARE:
PAXTON FINE SANDY LOAM, VERY STONY, K = 0.24, 8-15% SLOPES
TEEL SILT LOAM, SANDY SUBSTRATUM, K = 0.49
RIPPOWAM FINE SANDY LOAM, K = 0.20
UDIPSAMMENTS, K = 0.15,NEARLY LEVEL
ELDRIDGE FINE SANDY LOAM, K = 0.24, 0% - 3% SLOPE

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING:

0.0-0.23 = LOW EROSION POTENTIAL
0.24-0.36 = MODERATE EROSION POTENTIAL
0.37 AND HIGHER = HIGH EROSION POTENTIAL

1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: ARCHEOLOGICAL AREA ALONG DORR DR TO THE NORTH AND THE EXISTING BRIDGE IS A HISTORIC TRUSS
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: OTTER CREEK
WETLANDS: CLASS II WETLANDS ON THE SOUTHERN END OF THE PROJECT

1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR MODERATE RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFC MEANS AND METHODS OF THE CONTRACTOR.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDE SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

FILTER CURTAIN WILL BE INSTALLED SURROUNDING THE SUBSTRUCTURE CONSTRUCTION AREAS TO CONTAIN SEDIMENT

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

DIVERSIONARY MEASURES MAY BE NEEDED ON THE SLOPE ALONG DORR DR.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

STONE CHECK DAMS WILL BE INSTALLED AS SHOWN ON THE EPSC PLANS AND AS DIRECTED BY THE ENGINEER.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

GRASS SWALES WILL BE CONSTRUCTED AT FOUR LOCATIONS WITHIN THE PROJECT AREA TO COLLECT, DETAIN AND TREAT STORM WATER RUNOFF.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15).

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

TREATMENT OF DEWATERING COFFERDAM IS ANTICIPATED. A LOCATION FOR TREATMENT HAS BEEN PROPOSED AND IS SHOWN ON THE PLANS. HOWEVER THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

1.5.1 CONSTRUCTION SEQUENCE

1.5.2 OFF-SITE ACTIVITIES

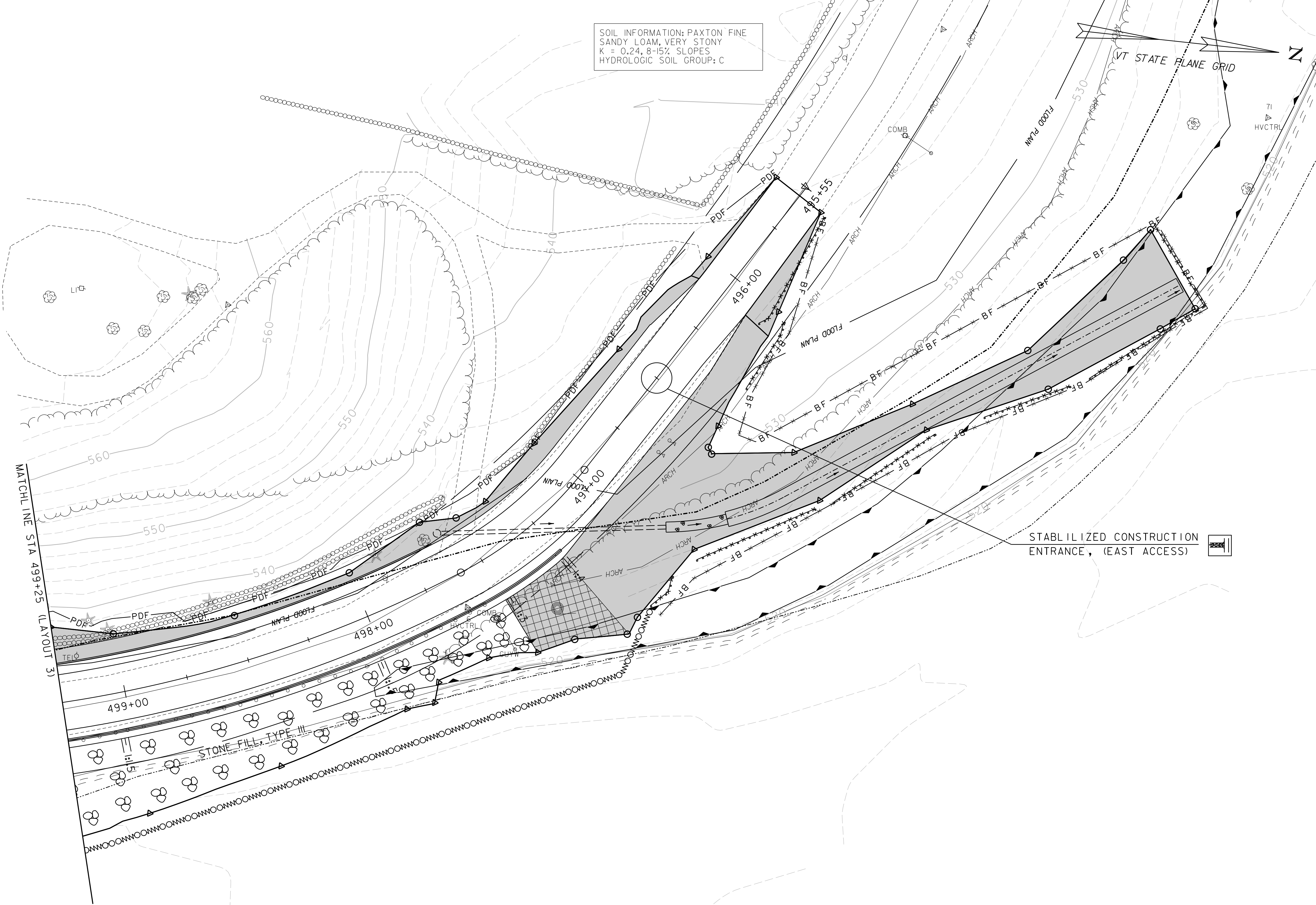
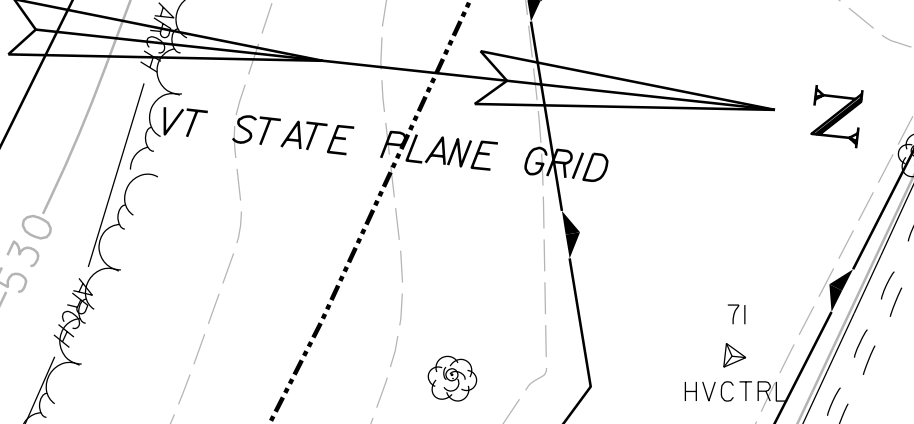
IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

1.5.3 UPDATES

...

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j09forms.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: U.STANLEY
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC NARRATIVE	SHEET 80 OF 100

SOIL INFORMATION: PAXTON FINE
SANDY LOAM, VERY STONY
K = 0.24, 8-15% SLOPES
HYDROLOGIC SOIL GROUP: C

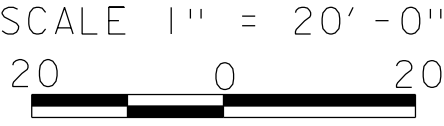


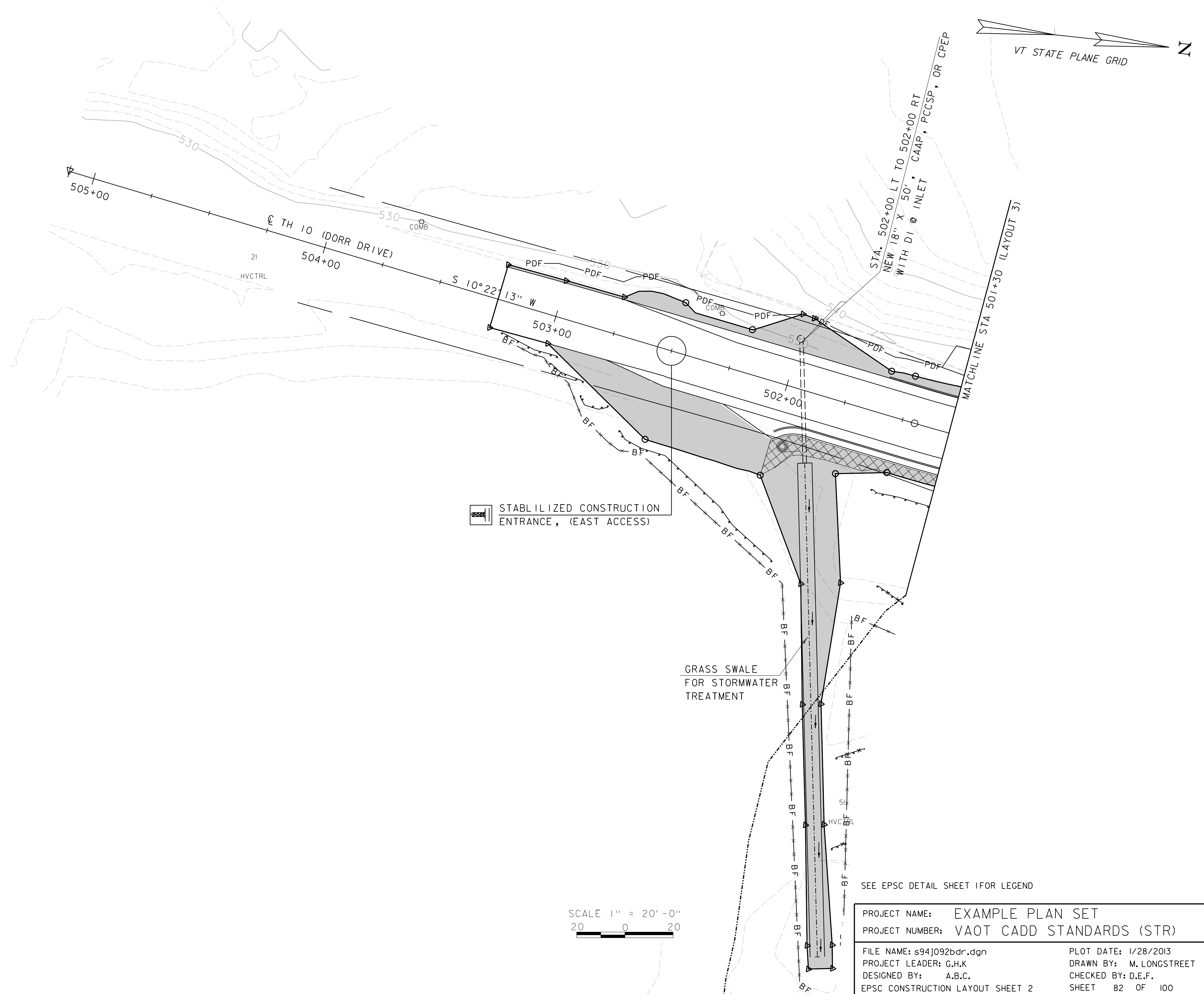
STABILIZED CONSTRUCTION
ENTRANCE, (EAST ACCESS)

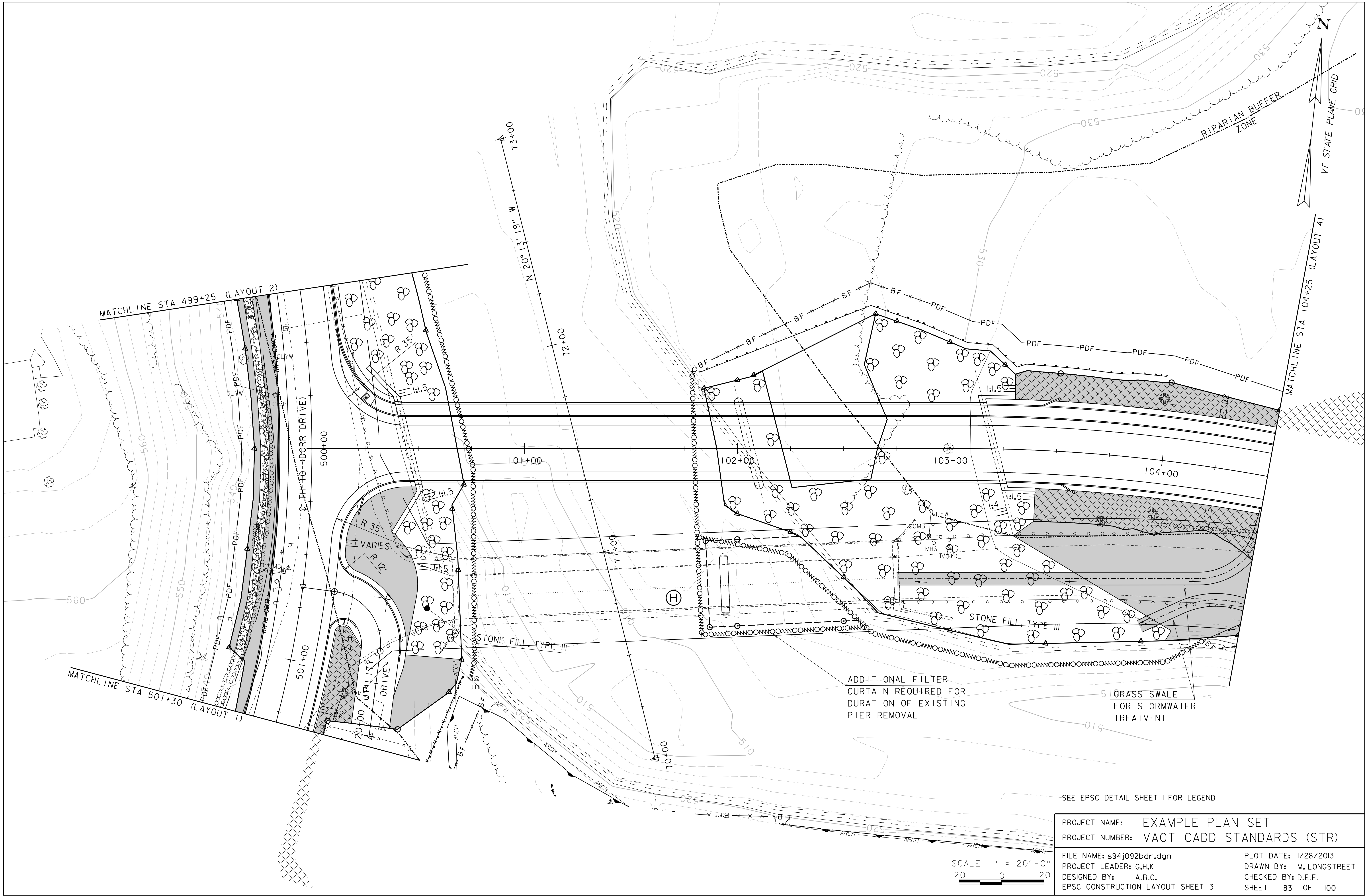


SEE EPSC DETAIL SHEET IFOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC CONSTRUCTION LAYOUT SHEET I	SHEET 81 OF 100

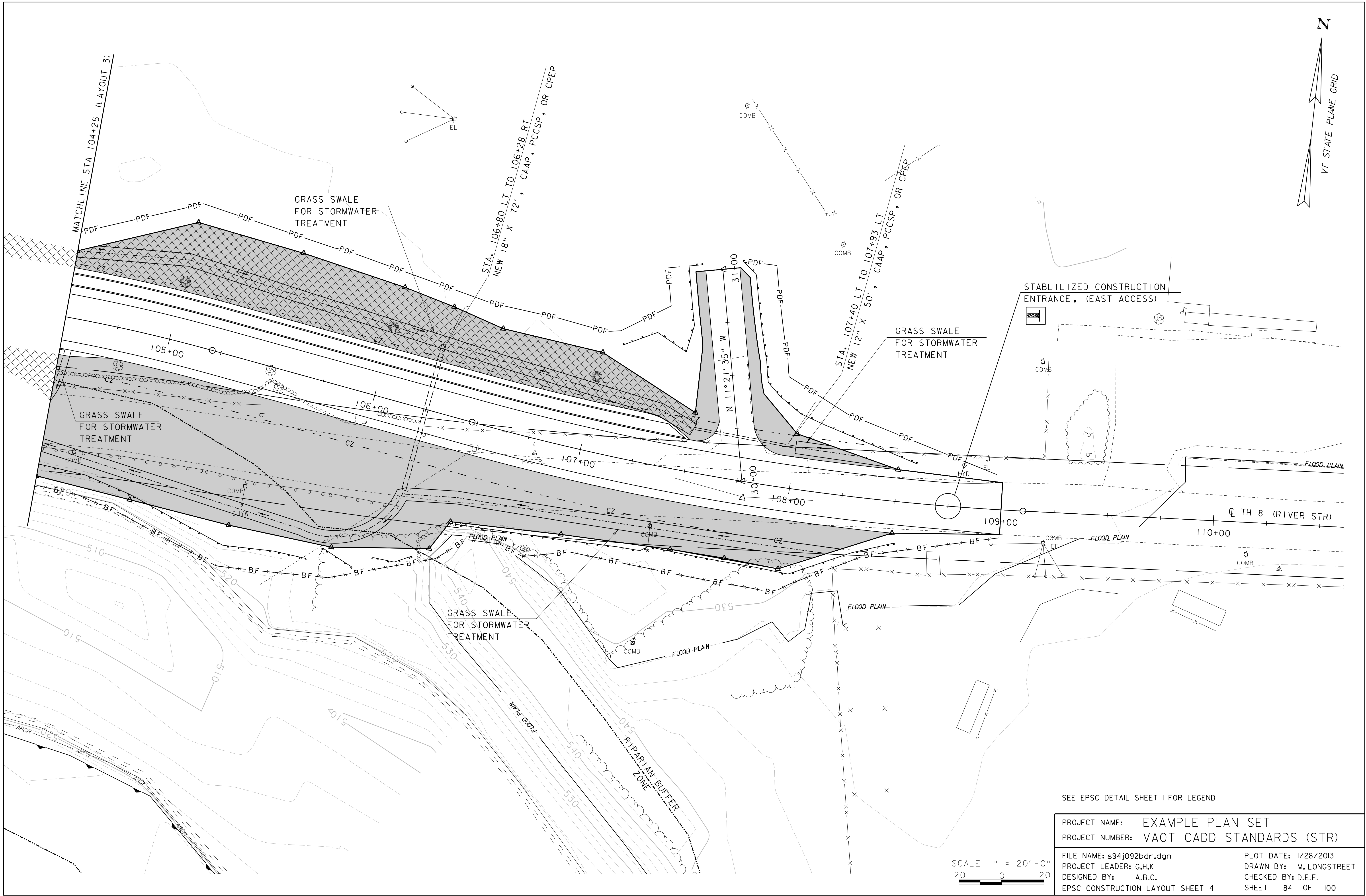






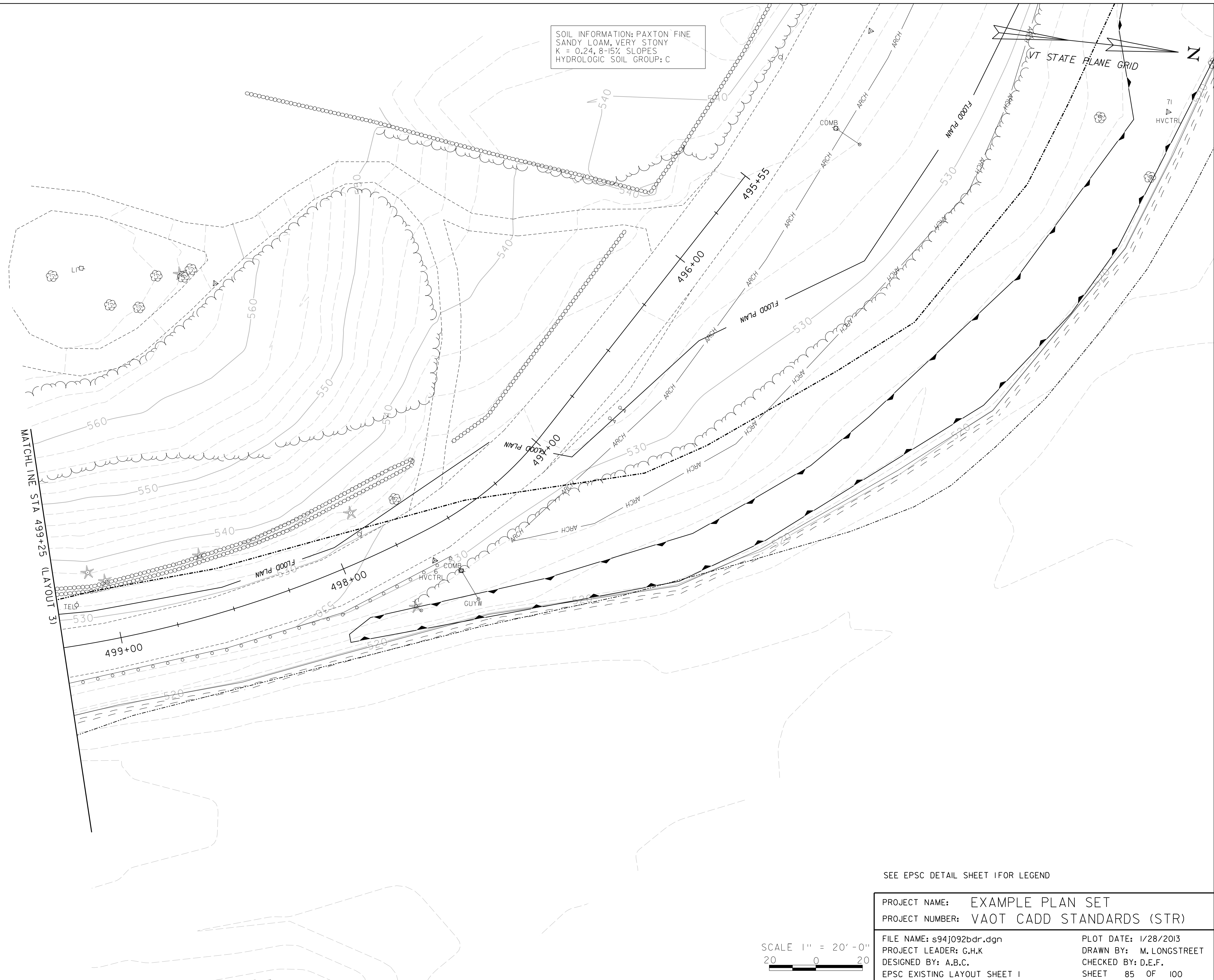
SEE EPSC DETAIL SHEET I FOR LEGEND

PROJECT NAME:	EXAMPLE PLAN SET
PROJECT NUMBER:	VAOT CADD STANDARDS (STR)
FILE NAME:	s94j092bdr.dgn
PLOT DATE:	1/28/2013
PROJECT LEADER:	G.H.K
DRAWN BY:	M. LONGSTREET
DESIGNED BY:	A.B.C.
CHECKED BY:	D.E.F.
EPSC CONSTRUCTION LAYOUT SHEET 3	SHEET 83 OF 100



SEE EPSC DETAIL SHEET I FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC CONSTRUCTION LAYOUT SHEET 4	SHEET 84 OF 100



SOIL INFORMATION: PAXTON FINE
SANDY LOAM, VERY STONY
K = 0.24, 8-15% SLOPES
HYDROLOGIC SOIL GROUP: C

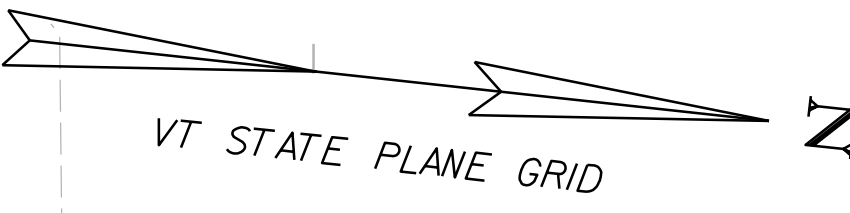
VT STATE PLANE GRID
N
71
HVCTRL

MATCHLINE STA 499+25 (LAYOUT 3)

SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC EXISTING LAYOUT SHEET 1	SHEET 85 OF 100

SCALE 1" = 20' - 0"
20 0 20



SOIL INFORMATION: PAXTON FINE
SANDY LOAM, VERY STONY
K = 0.24, 8-15% SLOPES
HYDROLOGIC SOIL GROUP: C

SOIL INFORMATION: TEEL SILT
LOAM, SANDY SUBSTRATUM
K = 0.49, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: B

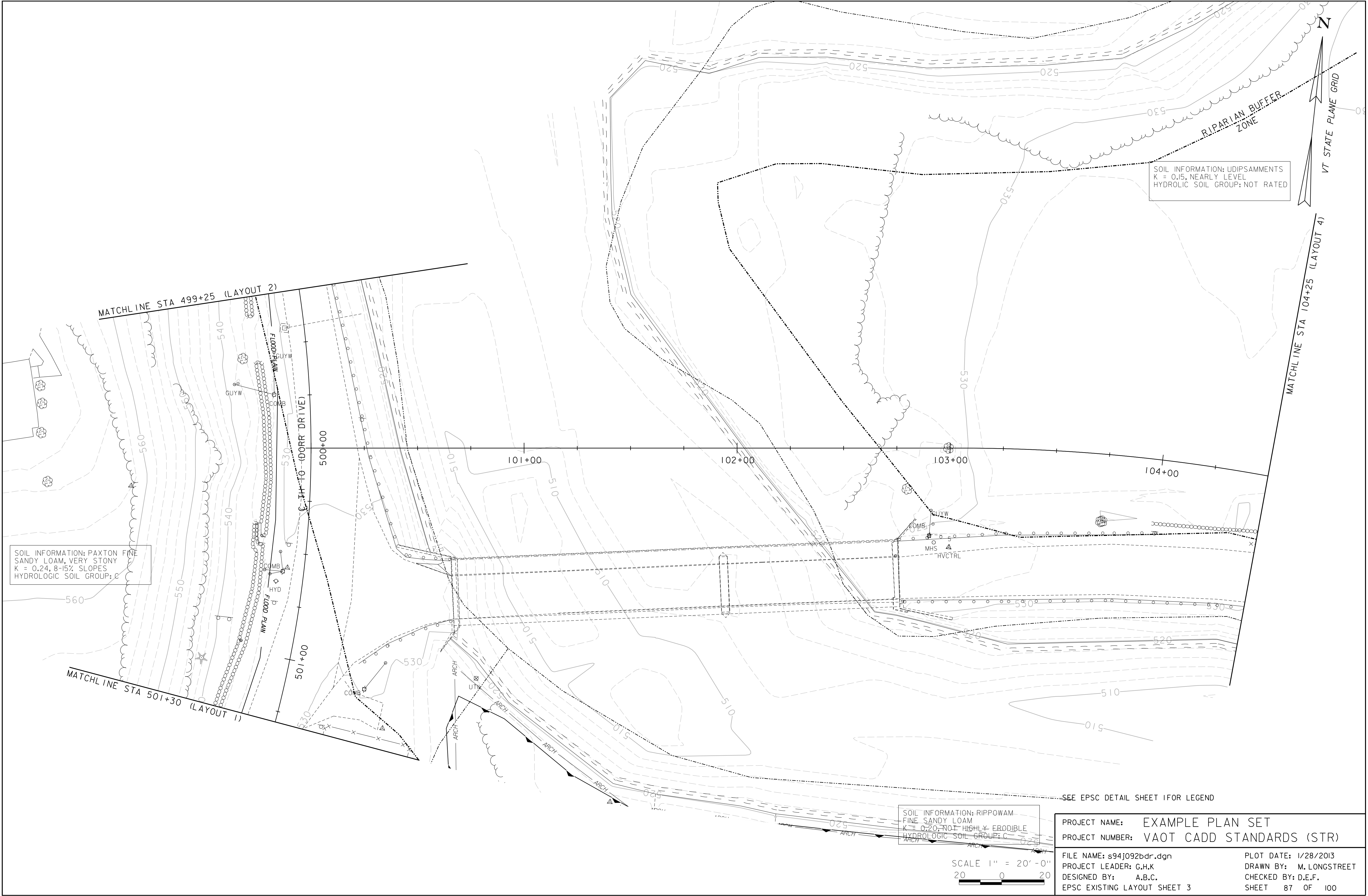
SOIL INFORMATION: RIPPOWAM
FINE SANDY LOAM
K = 0.20, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

CLASS II
WETLANDS

SCALE 1" = 20'-0"
20 0 20

SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC EXISTING LAYOUT SHEET 2	SHEET 86 OF 100



SOIL INFORMATION: PAXTON FINE
SANDY LOAM, VERY STONY
K = 0.24, 8-15% SLOPES
HYDROLOGIC SOIL GROUP: C

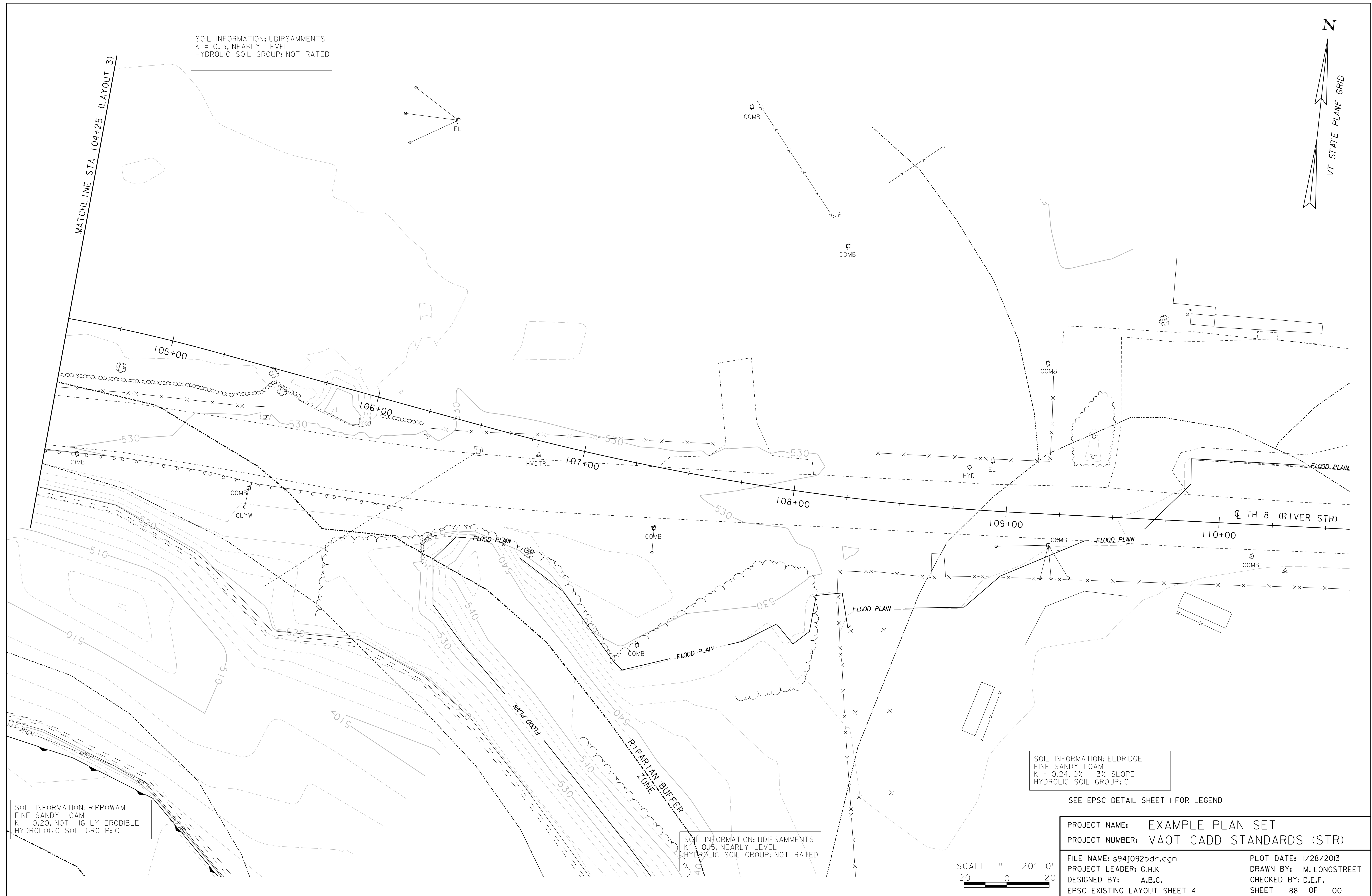
SOIL INFORMATION: UDIPSAMMENTS
K = 0.15, NEARLY LEVEL
HYDROLOGIC SOIL GROUP: NOT RATED

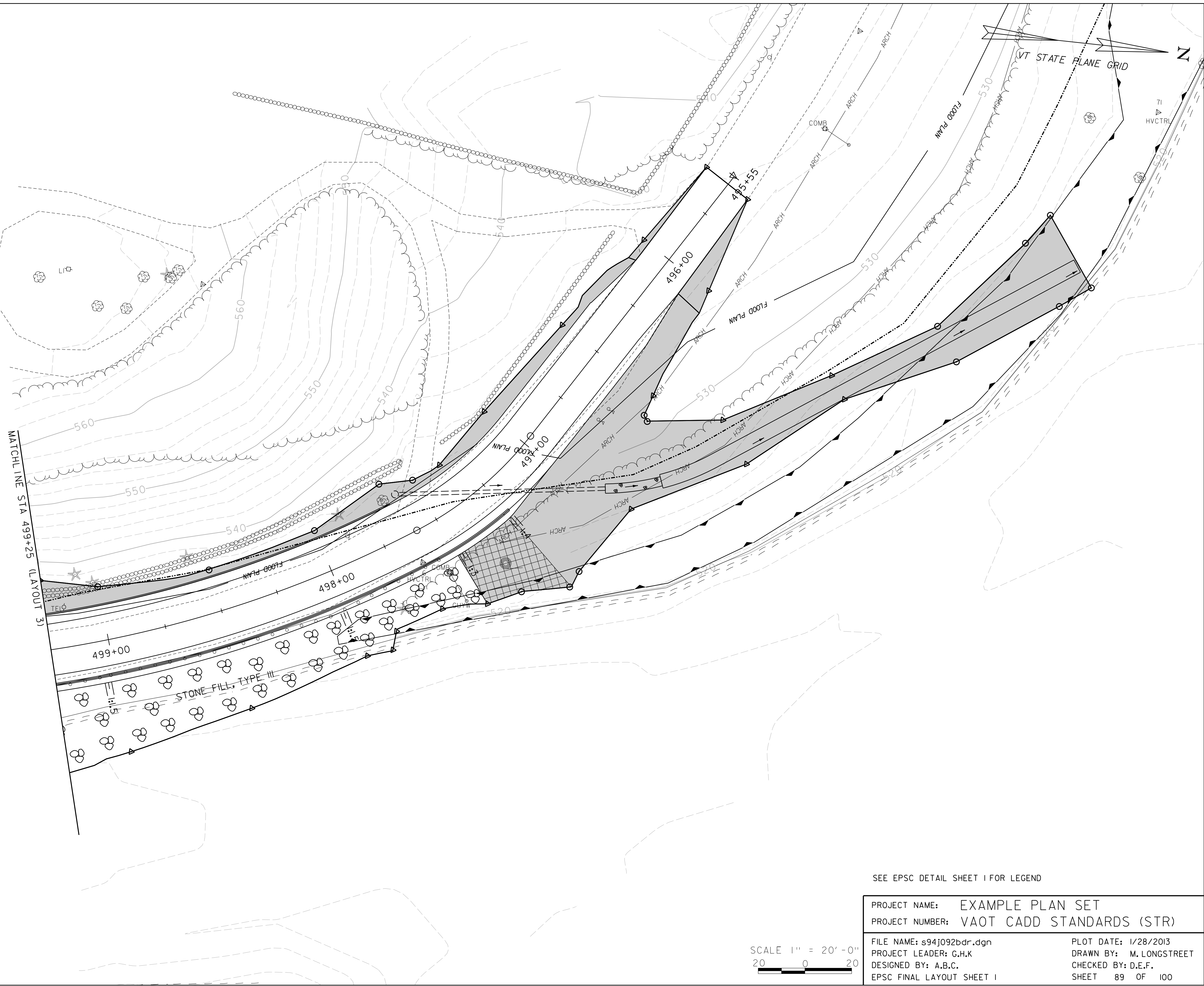
SOIL INFORMATION: RIPPOWAM
FINE SANDY LOAM
K = 0.20, NOT HIGHLY ERODIBLE
HYDROLOGIC SOIL GROUP: C

SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC EXISTING LAYOUT SHEET 3	SHEET 87 OF 100

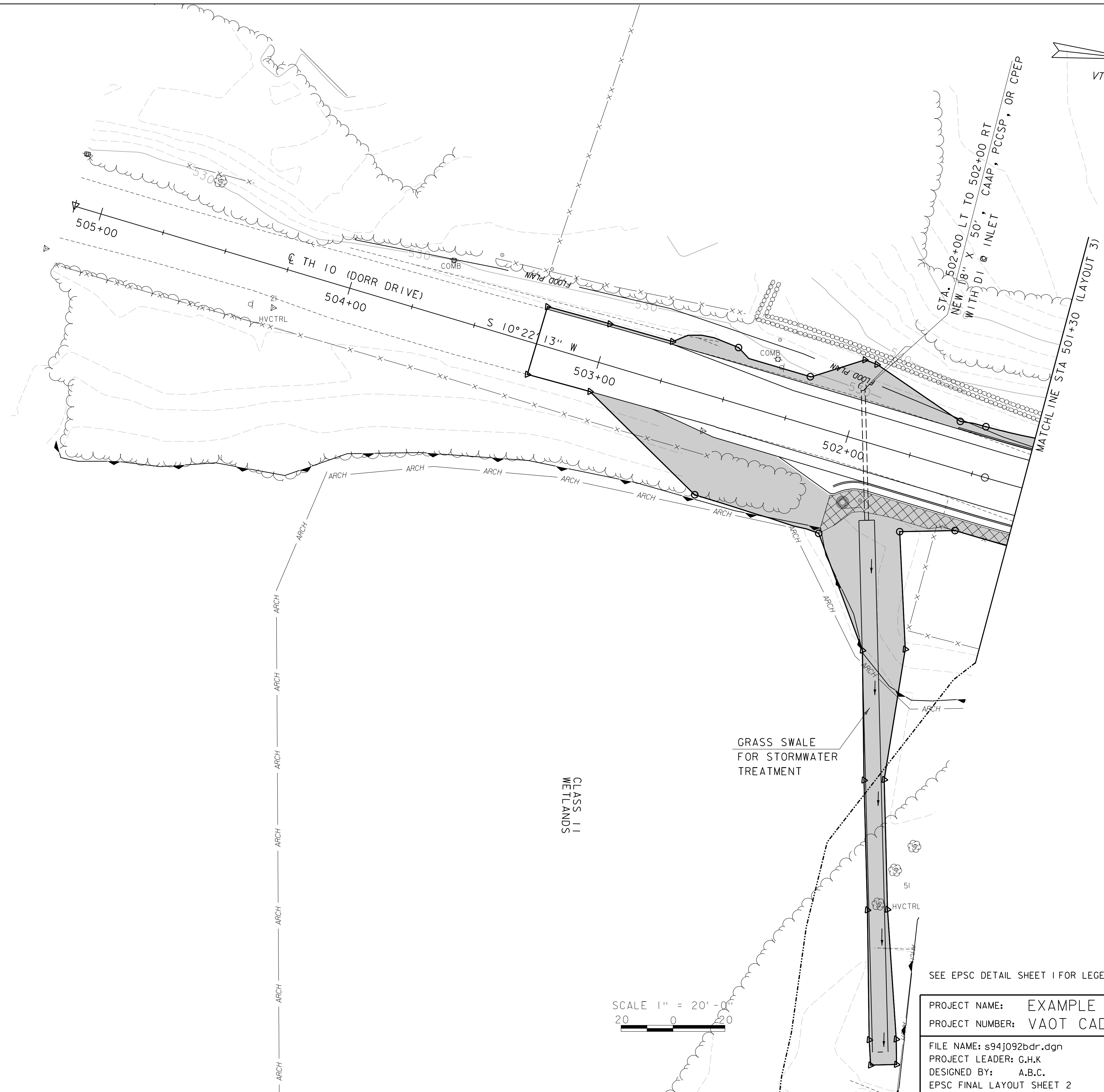
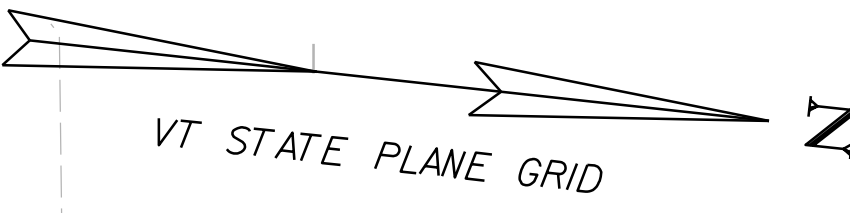
SCALE 1" = 20'-0"
20 0 20





SEE EPSC DETAIL SHEET I FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC FINAL LAYOUT SHEET I	SHEET 89 OF 100



SCALE 1" = 20'-0"
20 0 20

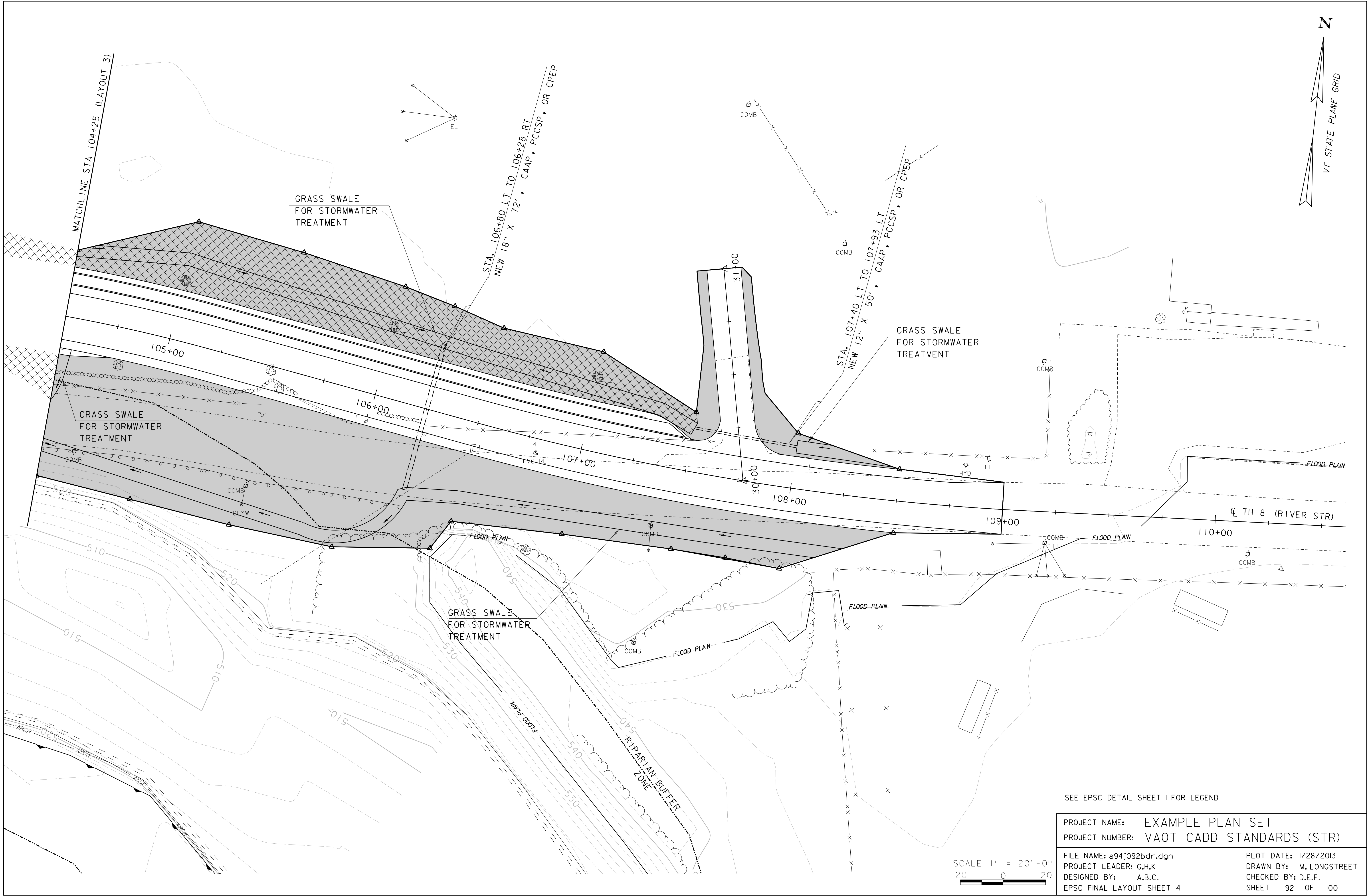
SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC FINAL LAYOUT SHEET 2	SHEET 90 OF 100



SEE EPSC DETAIL SHEET 1 FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET	
PROJECT NUMBER: VAOT CADD STANDARDS (STR)	
FILE NAME: s94j092bdr.dgn	PLOT DATE: 1/28/2013
PROJECT LEADER: G.H.K	DRAWN BY: M. LONGSTREET
DESIGNED BY: A.B.C.	CHECKED BY: D.E.F.
EPSC FINAL LAYOUT SHEET 3	SHEET 91 OF 100



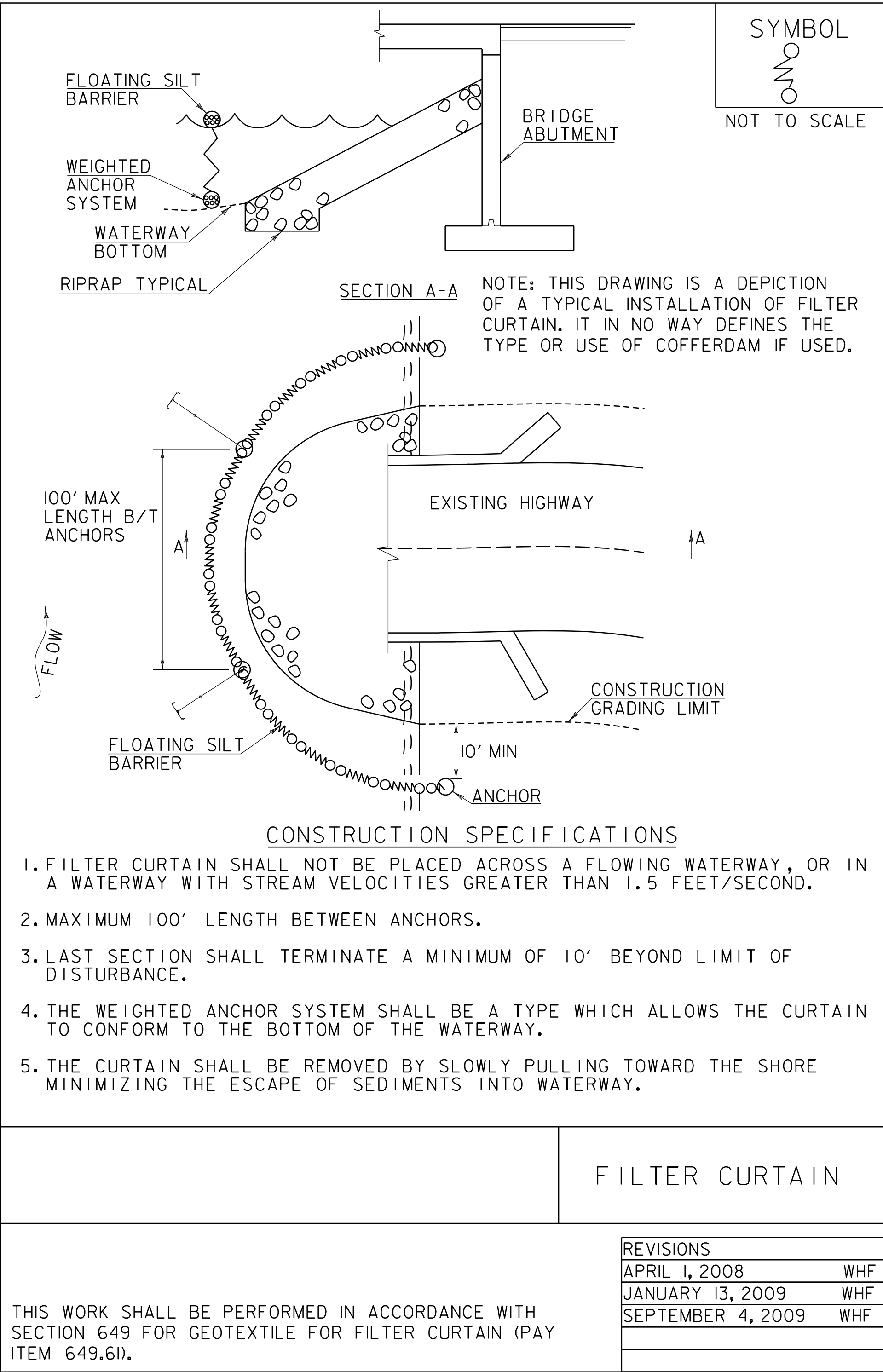
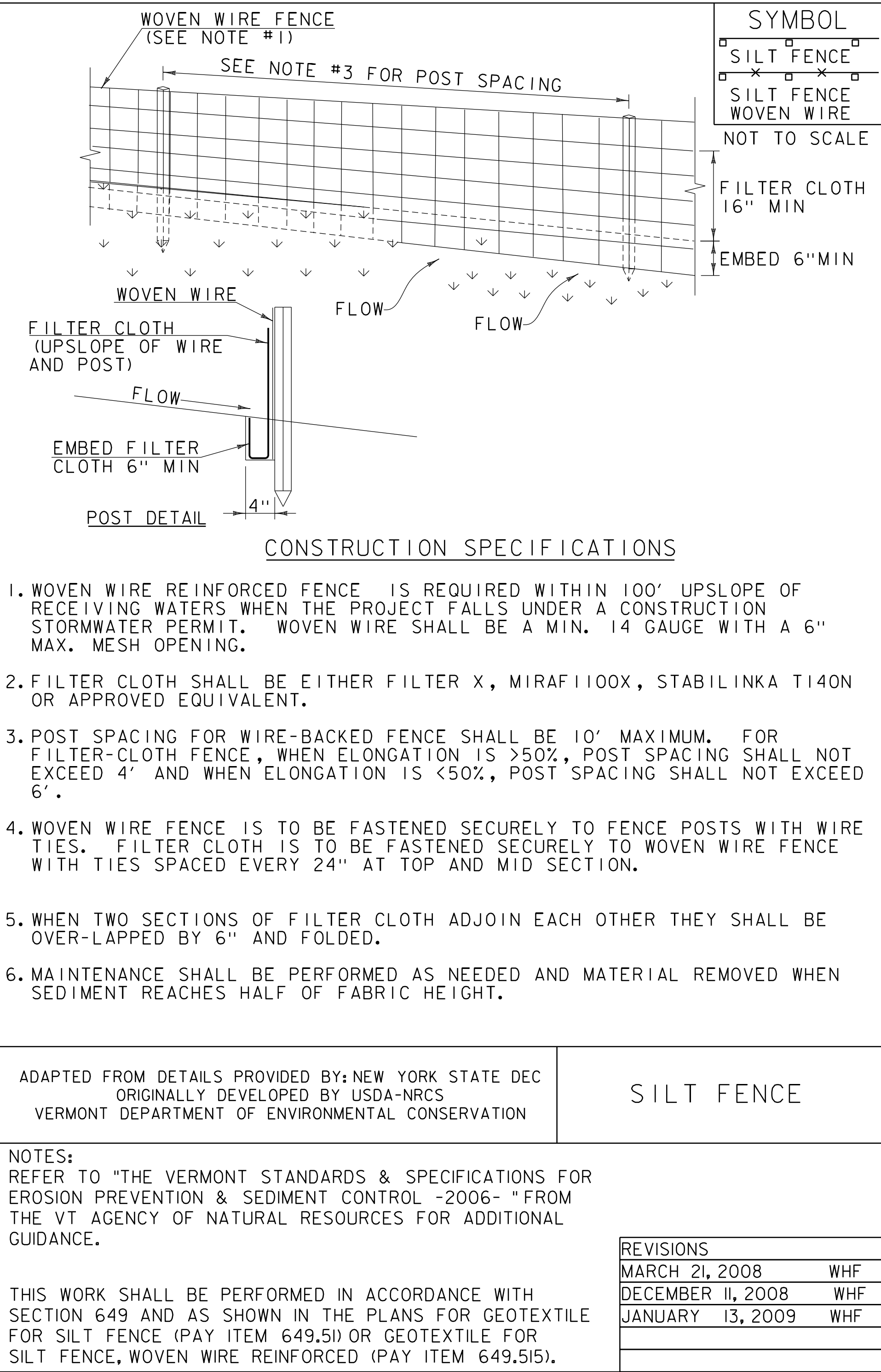
SEE EPSC DETAIL SHEET I FOR LEGEND

PROJECT NAME: EXAMPLE PLAN SET
PROJECT NUMBER: VAOT CADD STANDARDS (STR)

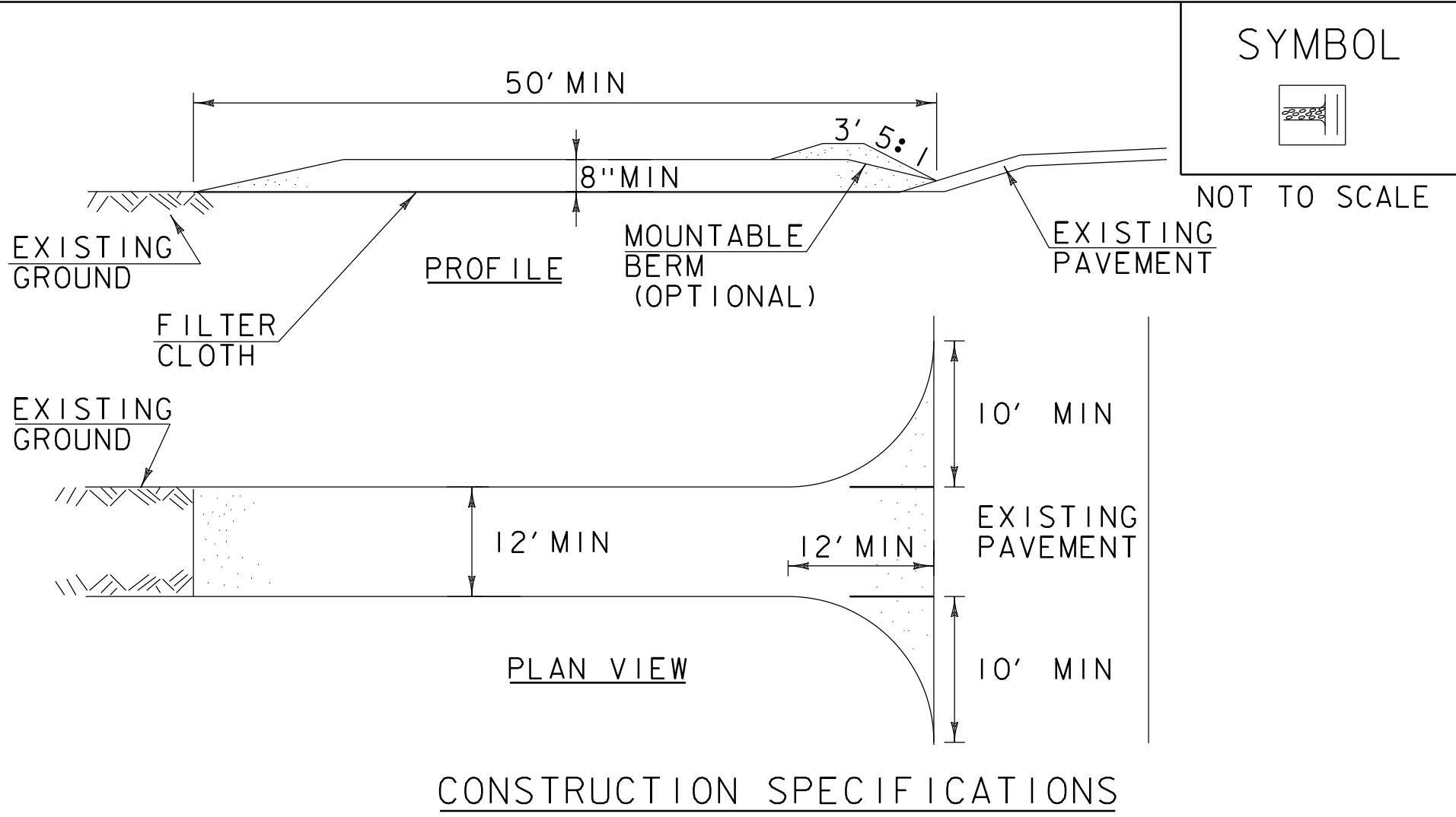
FILE NAME: s94j092bdr.dgn
PROJECT LEADER: G.H.K.
DESIGNED BY: A.B.C.
EPSC FINAL LAYOUT SHEET 4

PLOT DATE: 1/28/2013
DRAWN BY: M. LONGSTREET
CHECKED BY: D.E.F.
SHEET 92 OF 100

SCALE 1" = 20'-0"
20 0 20



EPSC LAYOUT PLAN SYMBOLOGY LEGEND	
PROJECT BOUNDARY FENCE	
PDF	PDF PROJECT DEMARCATION FENCE
BF	BF BARRIER FENCE
EPSC MEASURES	
ONNOONNOONNO	FILTER CURTAIN
-----	SILT FENCE
-----	SILT FENCE WOVEN WIRE
-----	CHECK DAM
	DISTURBED AREAS REQUIRING RE-VEGETATION
	EROSION MATTING
ENVIRONMENTAL RESOURCES	
-----	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	SOIL TYPE BOUNDARY
-----	THREATENED & ENDANGERED SPECIES
HAZ	HAZARDOUS WASTE AREA
AG	AGRICULTURAL LAND
HABITAT	FISH & WILDLIFE HABITAT
FLOOD PLAIN	FLOOD PLAIN
-----	STORM WATER
-----	USDA FOREST SERVICE LANDS
-----	WILDLIFE HABITAT SUIT/CONN
ARCHEOLOGICAL & HISTORIC	
ARCH	ARCHEOLOGICAL BOUNDARY
HISTORIC DIST	HISTORIC DISTRICT BOUNDARY
HISTORIC	HISTORIC AREA
H	HISTORIC STRUCTURE
UTILITY SYMBOLOGY	
AER E&T	AREAL ELECTRIC & TELEPHONE
E	AREAL ELECTRIC
UE	UNDERGROUND ELECTRIC
UT	UNDERGROUND TELEPHONE
UC	UNDER GROUND TV
G	GAS LINE
W	WATER LINE
CONSTRUCTION FEATURES	
-----	TOE OF SLOPE CUT OR FILL
-----	STONE FILL, TYPE III
-----	STONE FILL, TYPE II
-----	STONE FILL, TYPE I



- 1.STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- 2.LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
- 3.THICKNESS- NOT LESS THAN 8".
- 4.WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
- 5.GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
- 6.SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- 7.MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- 8.WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- 9.PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

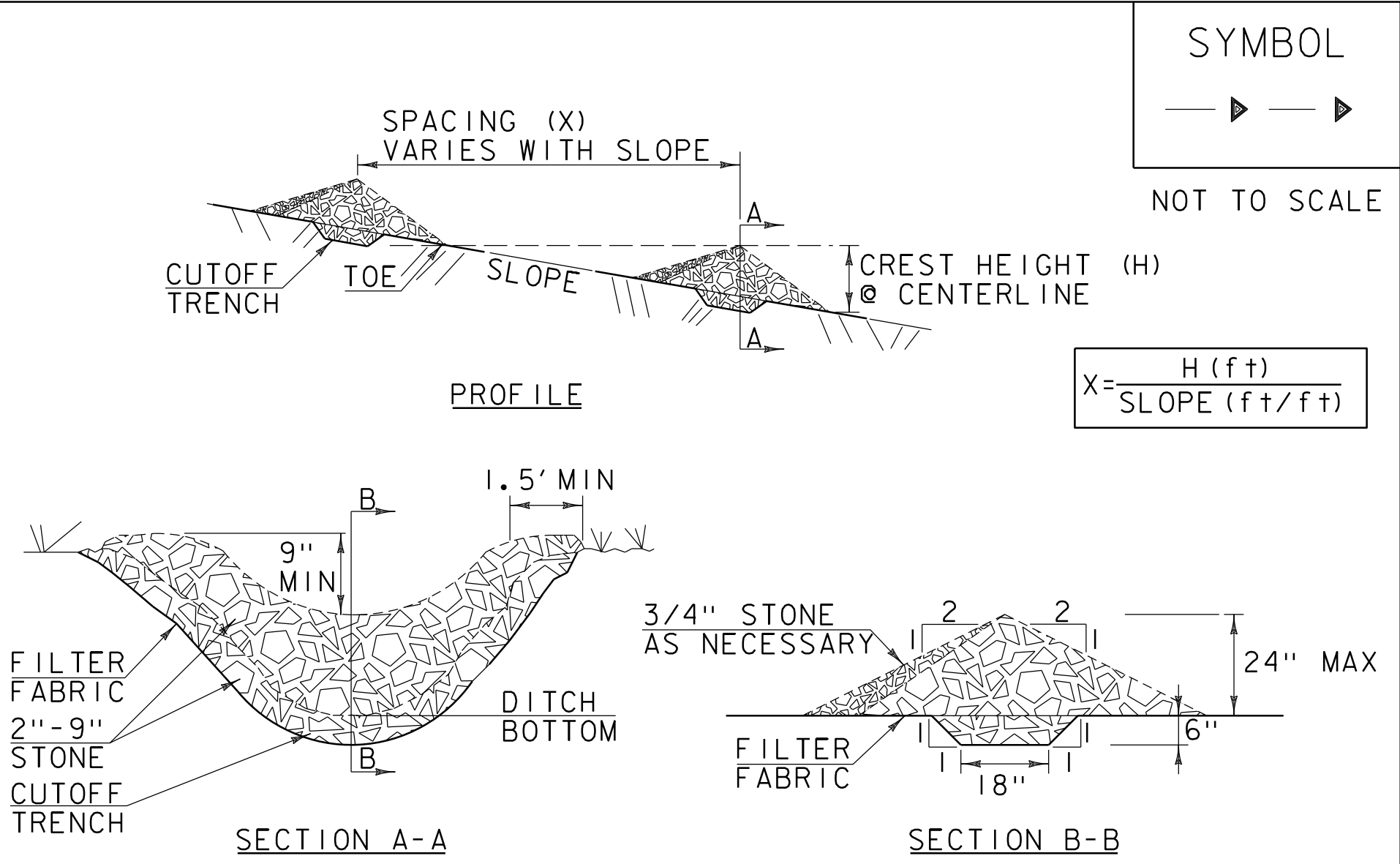
ADAPTED FROM DETAILS PROVIDED BY:NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED
CONSTRUCTION
ENTRANCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR
EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM
THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL
GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH
SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35)
OR AS SPECIFIED IN THE CONTRACT.

REVISIONS
MARCH 24, 2008 WHF
JANUARY 13, 2009 WHF



- 1.STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
- 2.CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OFTHE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
- 3.3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
- 4.EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- 5.PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- 6.ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- 7.MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY:NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHECK DAM

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR
EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM
THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL
GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH
SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I(PAY
ITEM 653.25)

REVISIONS
MARCH 21, 2008 WHF
JANUARY 8, 2009 WHF

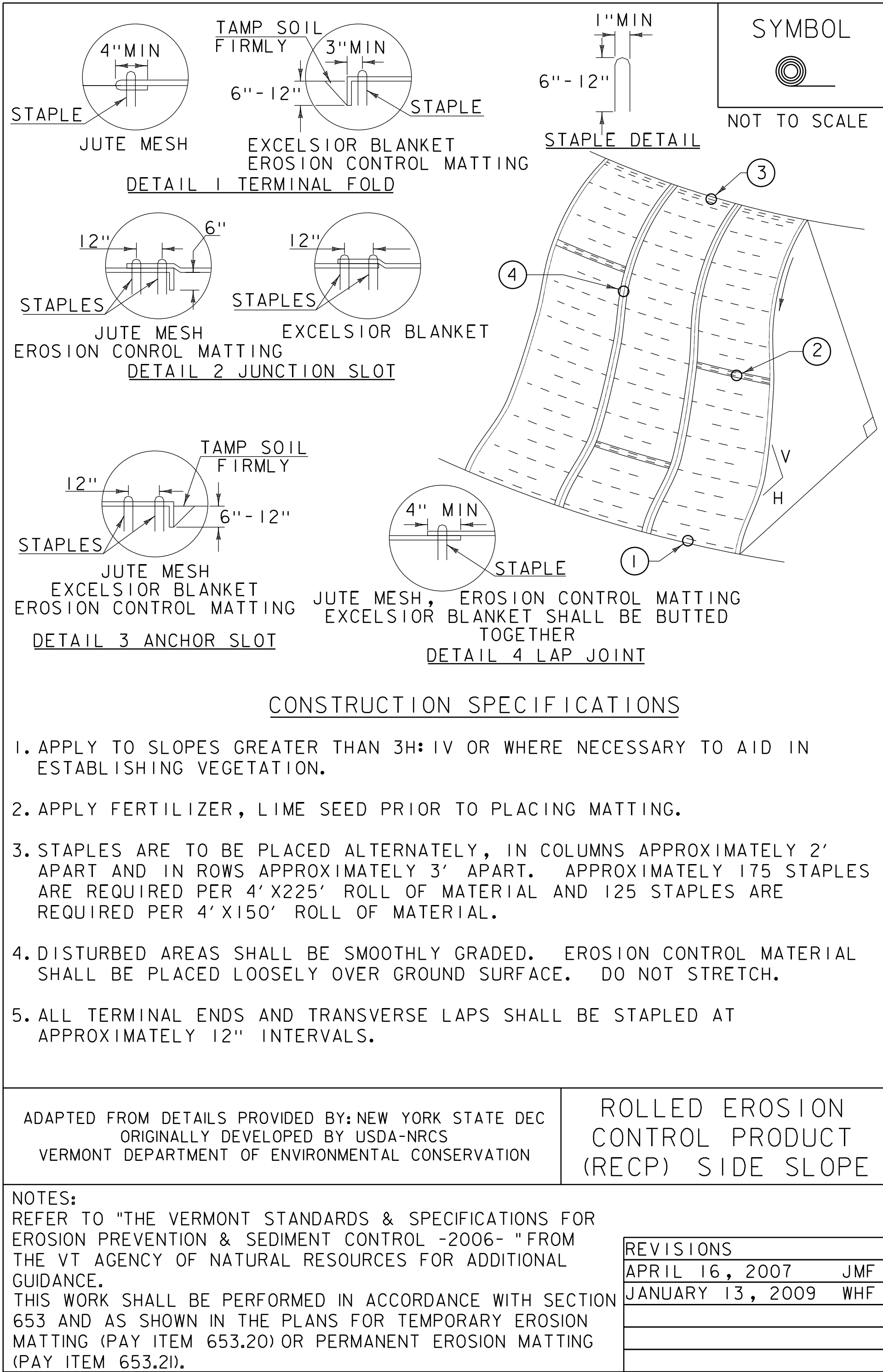
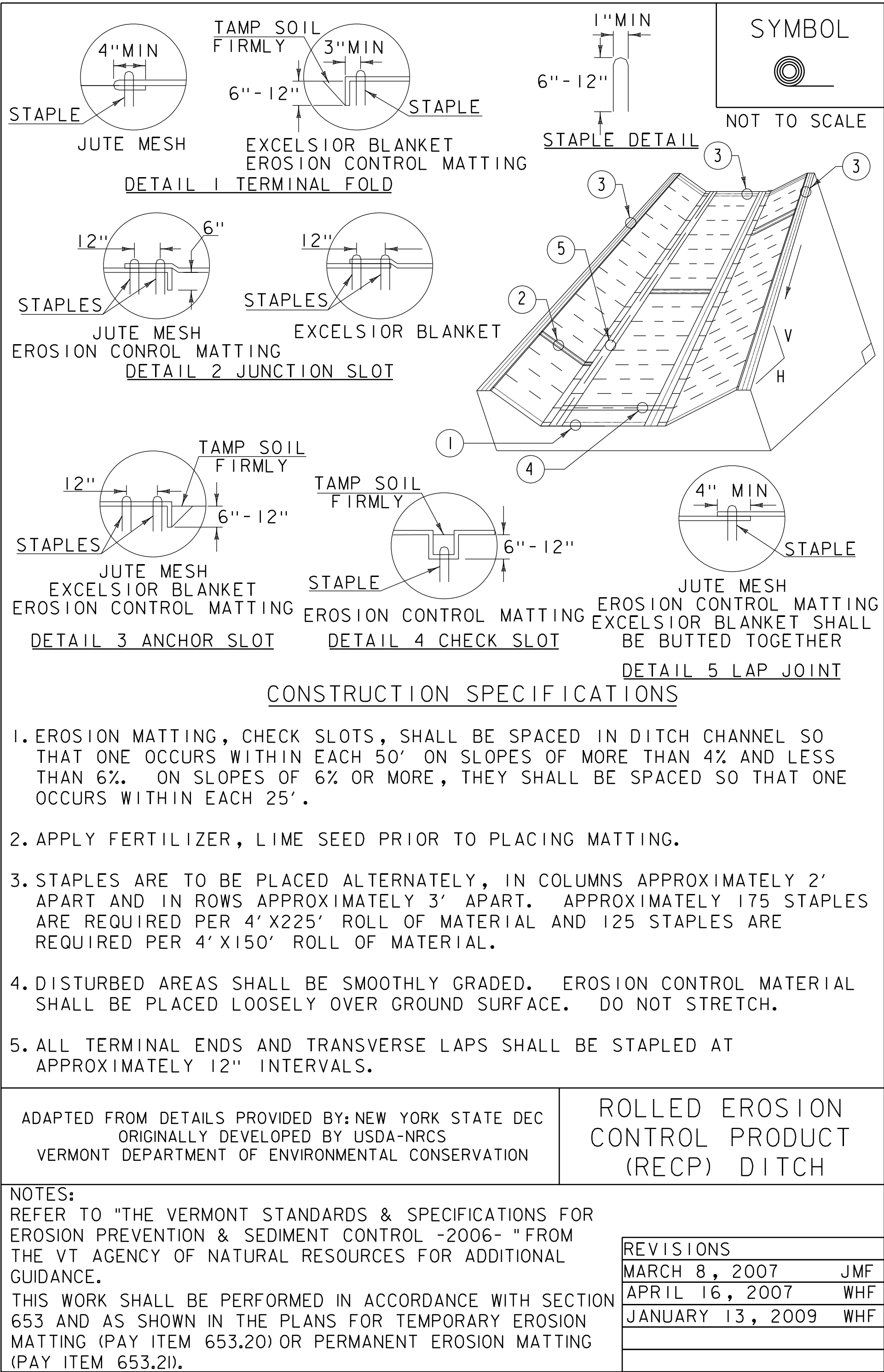
VAOT RURAL AREA MIX					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
37.5%	22.5	45	CREEPING RED FESCUE	85%	98%
37.5%	22.5	45	TALL FESCUE	90%	95%
5.0%	3	6	RED TOP	90%	95%
15.0%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	85%	95%
100%	60	120			

VAOT URBAN AREA MIX					
		LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %	PURITY %
42.5%	34	68	CREEPING RED FESCUE	85%	98%
10.0%	8	16	PERENNIAL RYE GRASS	90%	95%
42.5%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.0%	4	8	ANNUAL RYE GRASS	85%	95%
100%	80	160			

SOIL AMENDMENT GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	FOLLOW	PELLETIZED	FOLLOW
500 LBS/AC	MANUFACTURER	2 TONS/AC	MANUFACTURER

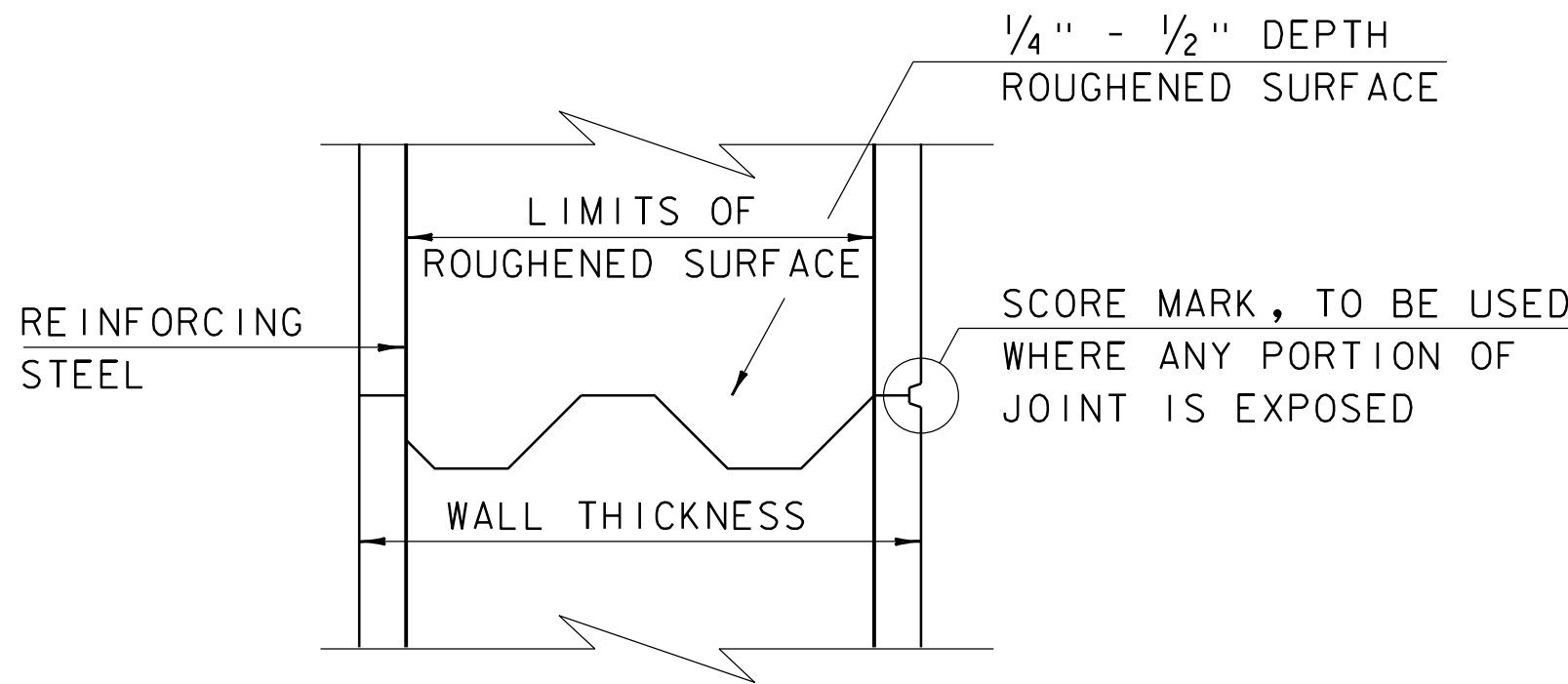
- CONSTRUCTION GUIDANCE
- 1.RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
- 2.URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
- 3.ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- 4.FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER
- 5.HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
- 6.TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 7.HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED
- 8.TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
REVISIONS JUNE 23, 2009 WHF JANUARY 15, 2010 WHF FEBRUARY 16, 2011 WHF	



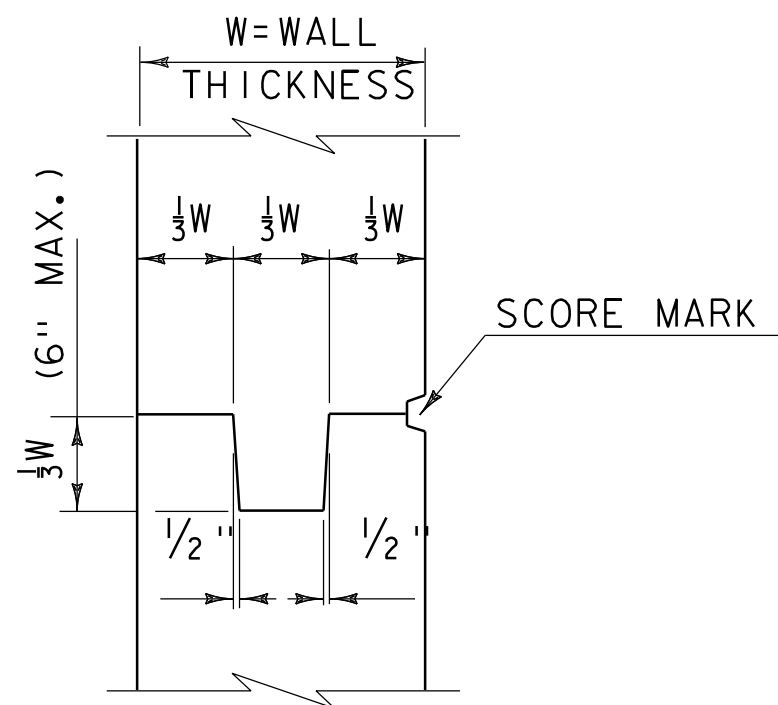
CONCRETE GENERAL NOTES

1. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" x 1"

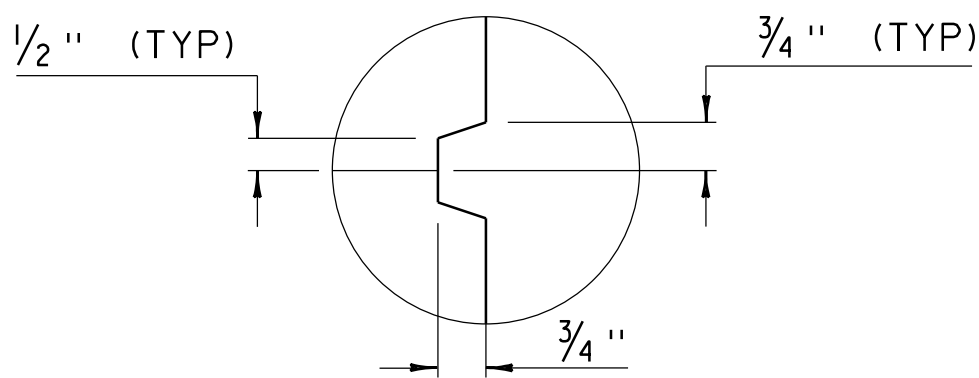


TYPICAL HORIZONTAL CONSTRUCTION JOINT
(NOT TO SCALE)

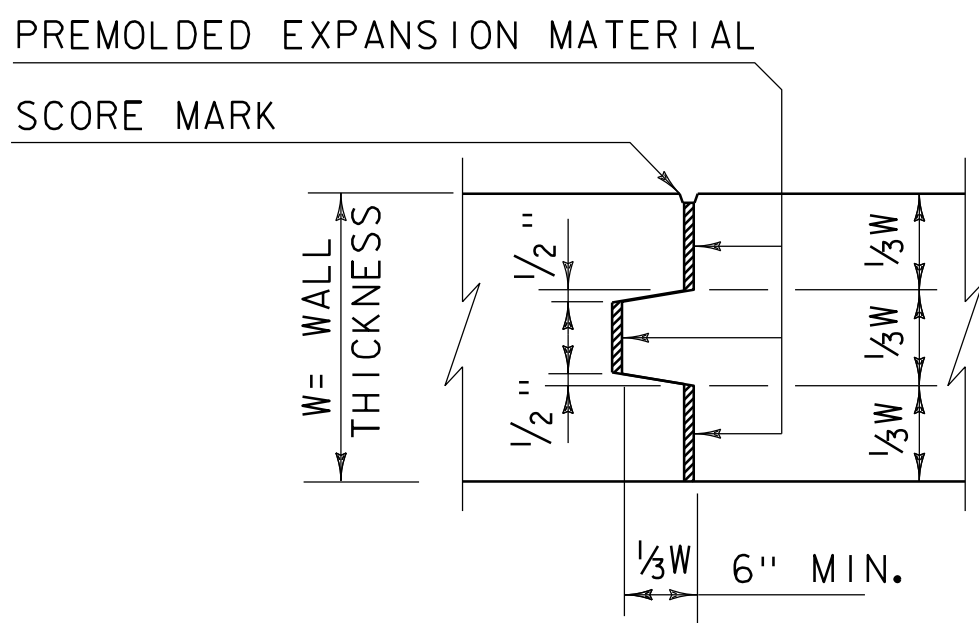
1. THE SURFACE OF THE CONCRETE CONSTRUCTION JOINTS SHALL BE CLEANED AND FREE OF LAITANCE.
2. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, ALL CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED.



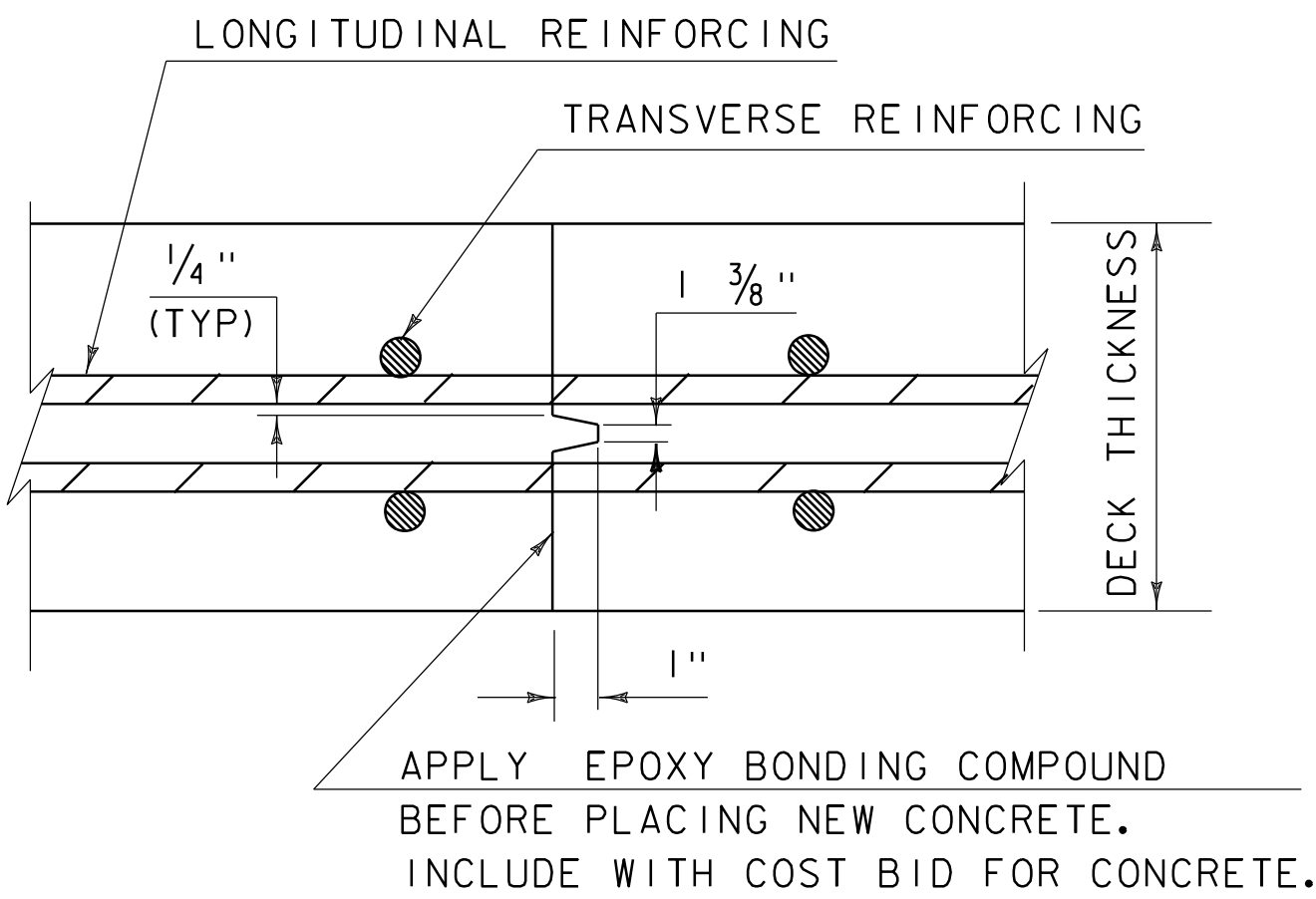
TYPICAL CONCRETE CONSTRUCTION JOINT
(NOT TO SCALE)



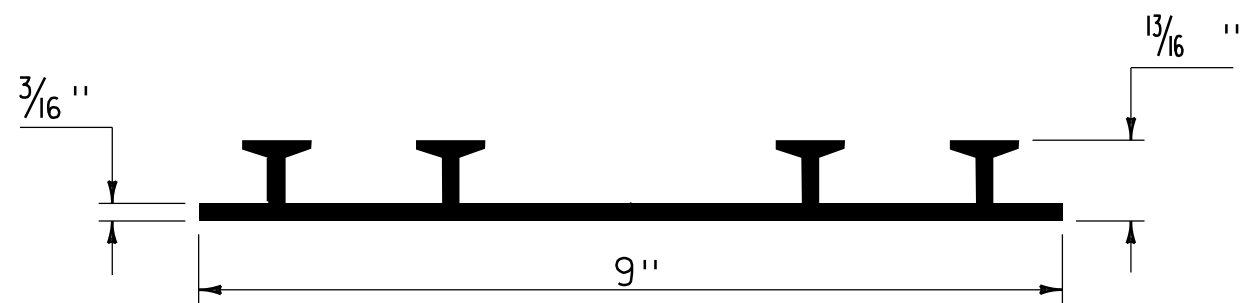
SCORE MARK DETAIL
(NOT TO SCALE)



TYPICAL CONCRETE EXPANSION JOINT
(NOT TO SCALE)



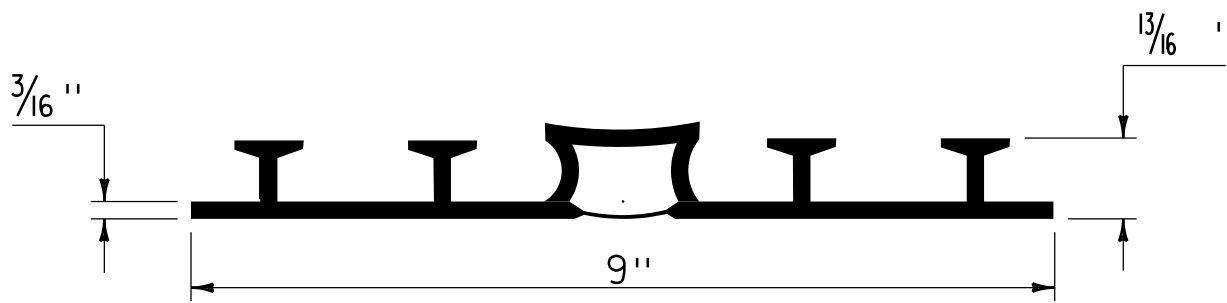
TRANSVERSE BRIDGE SLAB
CONSTRUCTION JOINT DETAILS
(NOT TO SCALE)



P.V.C. WATERSTOP FOR
CONSTRUCTION JOINTS
(NOT TO SCALE)

PAYMENT FOR THE P.V.C. WATERSTOP SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR THE ADJACENT CONCRETE.

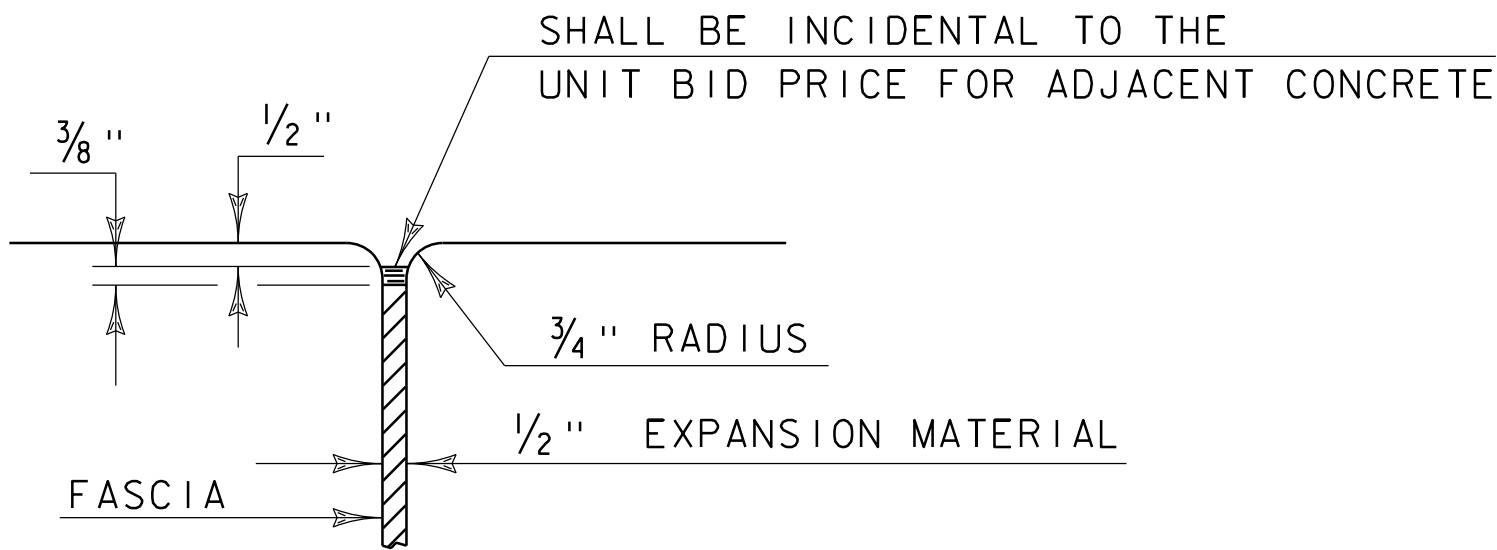
OTHER CONFIGURATIONS OF WATERSTOP MAY BE USED UPON APPROVAL OF THE ENGINEER.



P.V.C. WATERSTOP FOR
EXPANSION JOINTS
(NOT TO SCALE)

PAYMENT FOR THE P.V.C. WATERSTOP SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR THE ADJACENT CONCRETE.

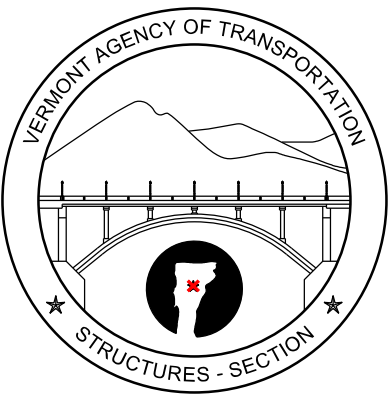
OTHER CONFIGURATIONS OF WATERSTOP MAY BE USED UPON APPROVAL OF THE ENGINEER.



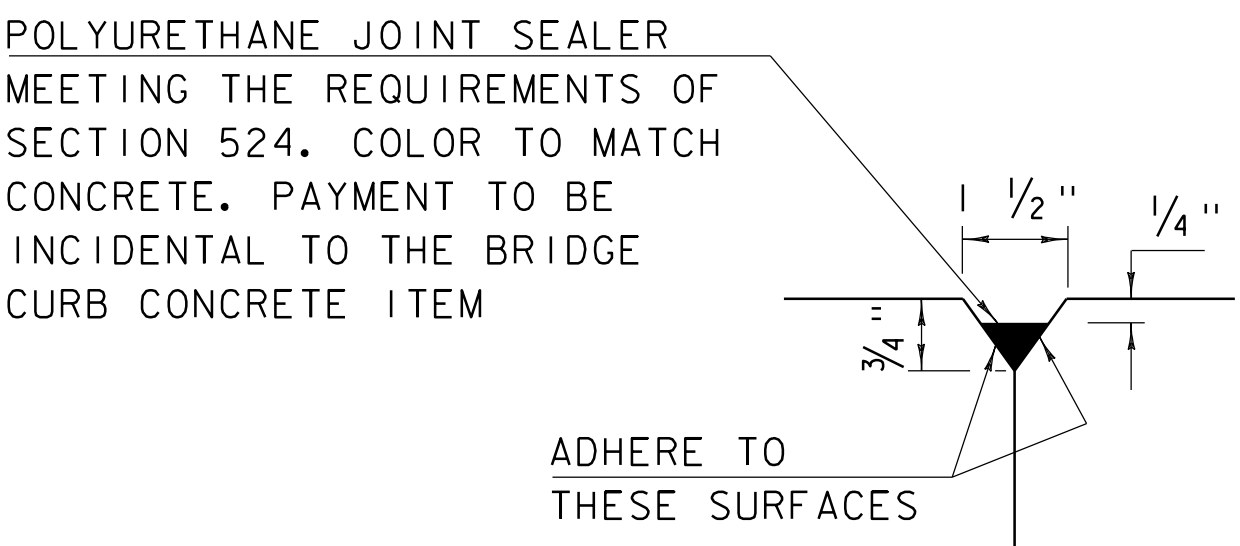
JOINT BETWEEN FASCIA
AND WINGWALL
(NOT TO SCALE)

REVISIONS	
MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION

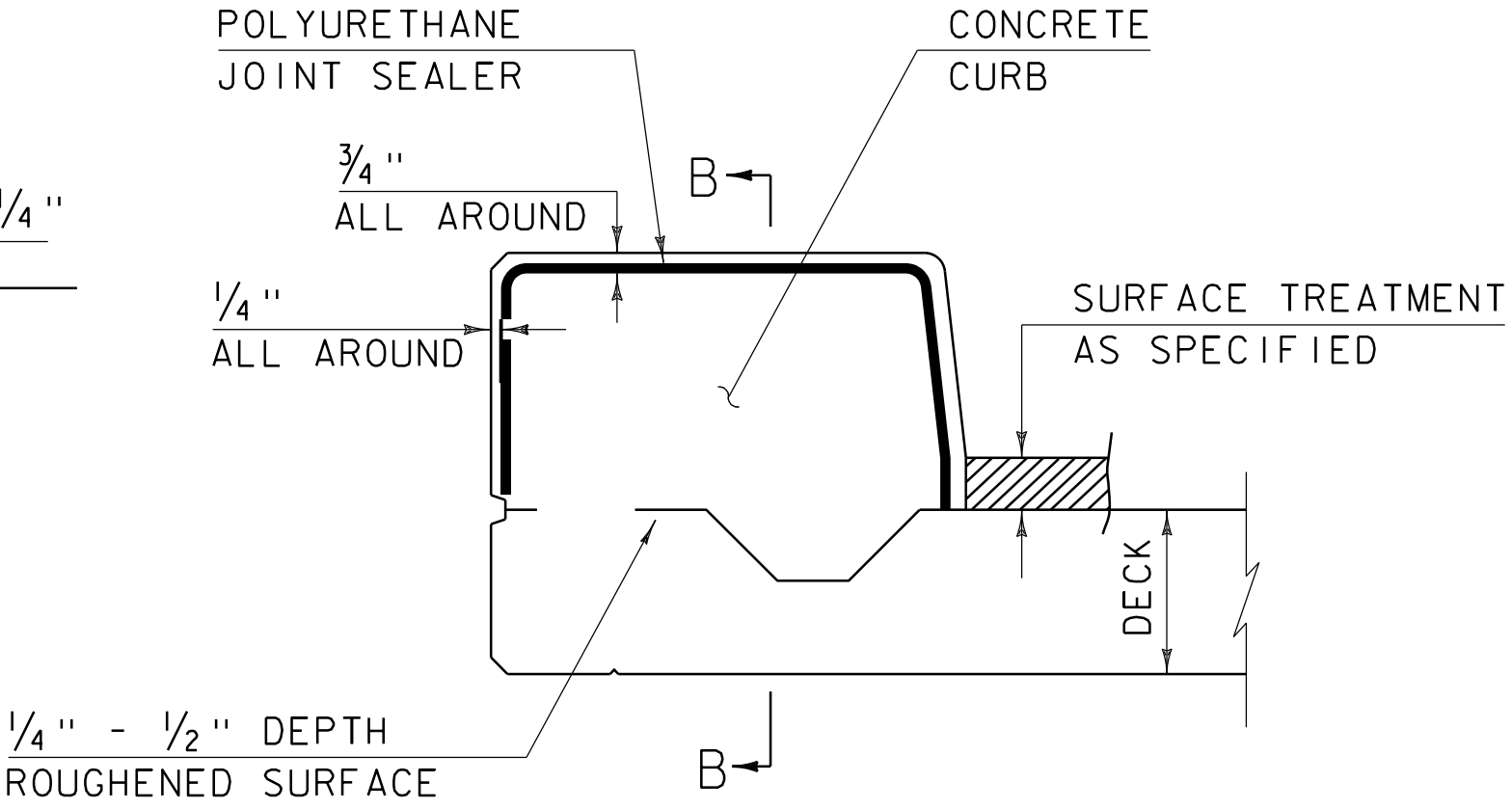
CONCRETE
DETAILS AND NOTES



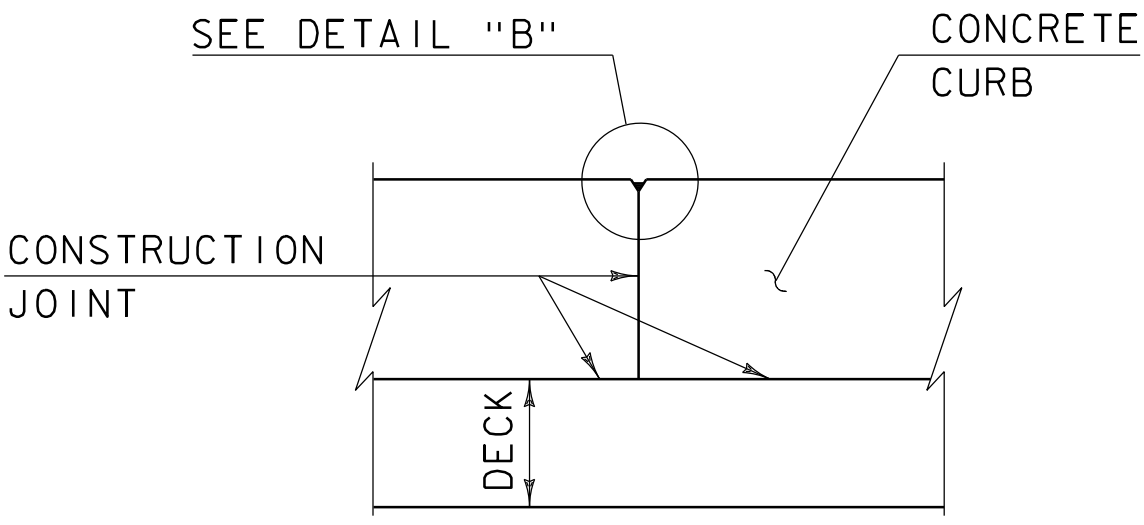
STRUCTURES
DETAIL
SD-501.00



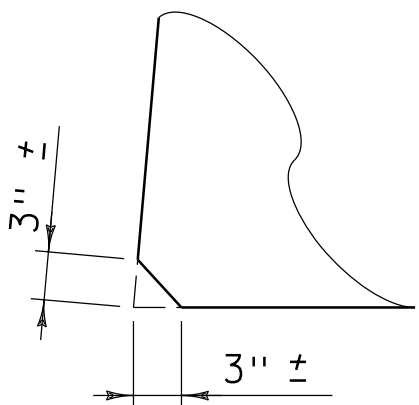
DETAIL "B"
(NOT TO SCALE)



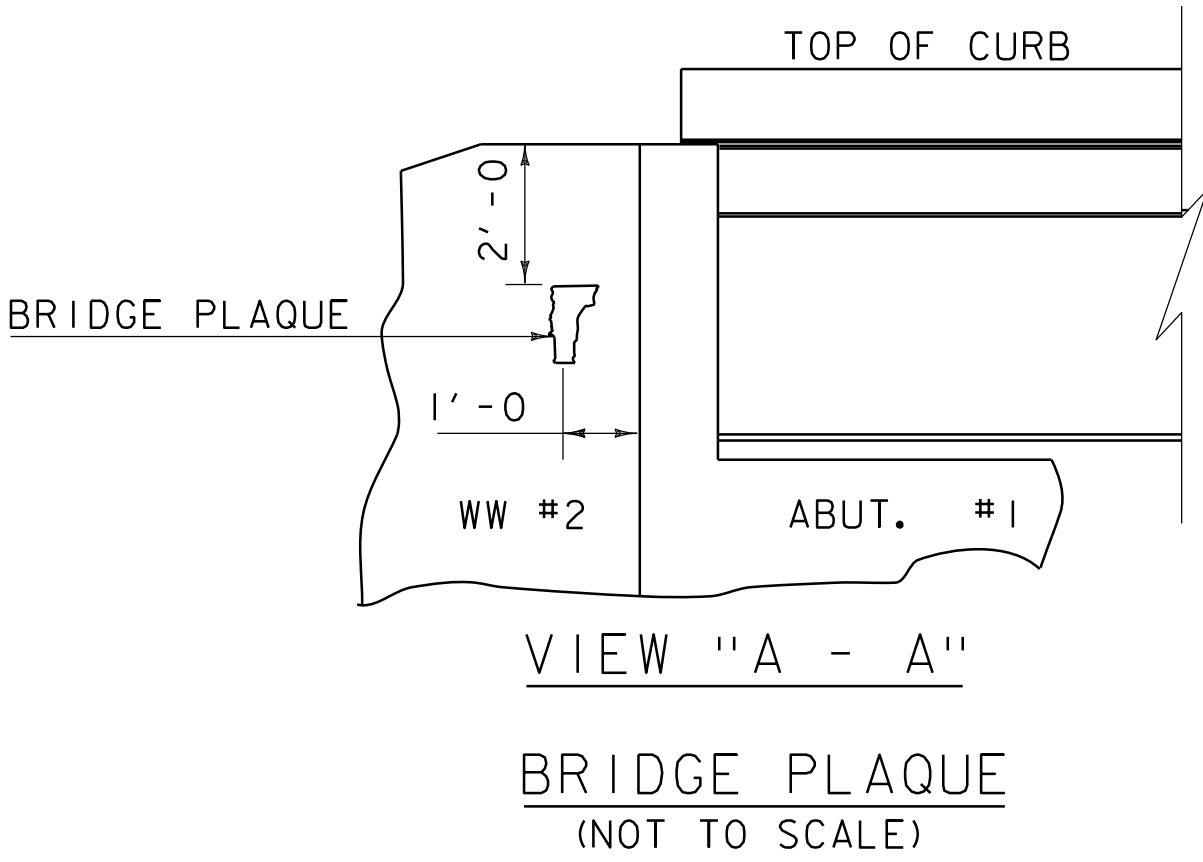
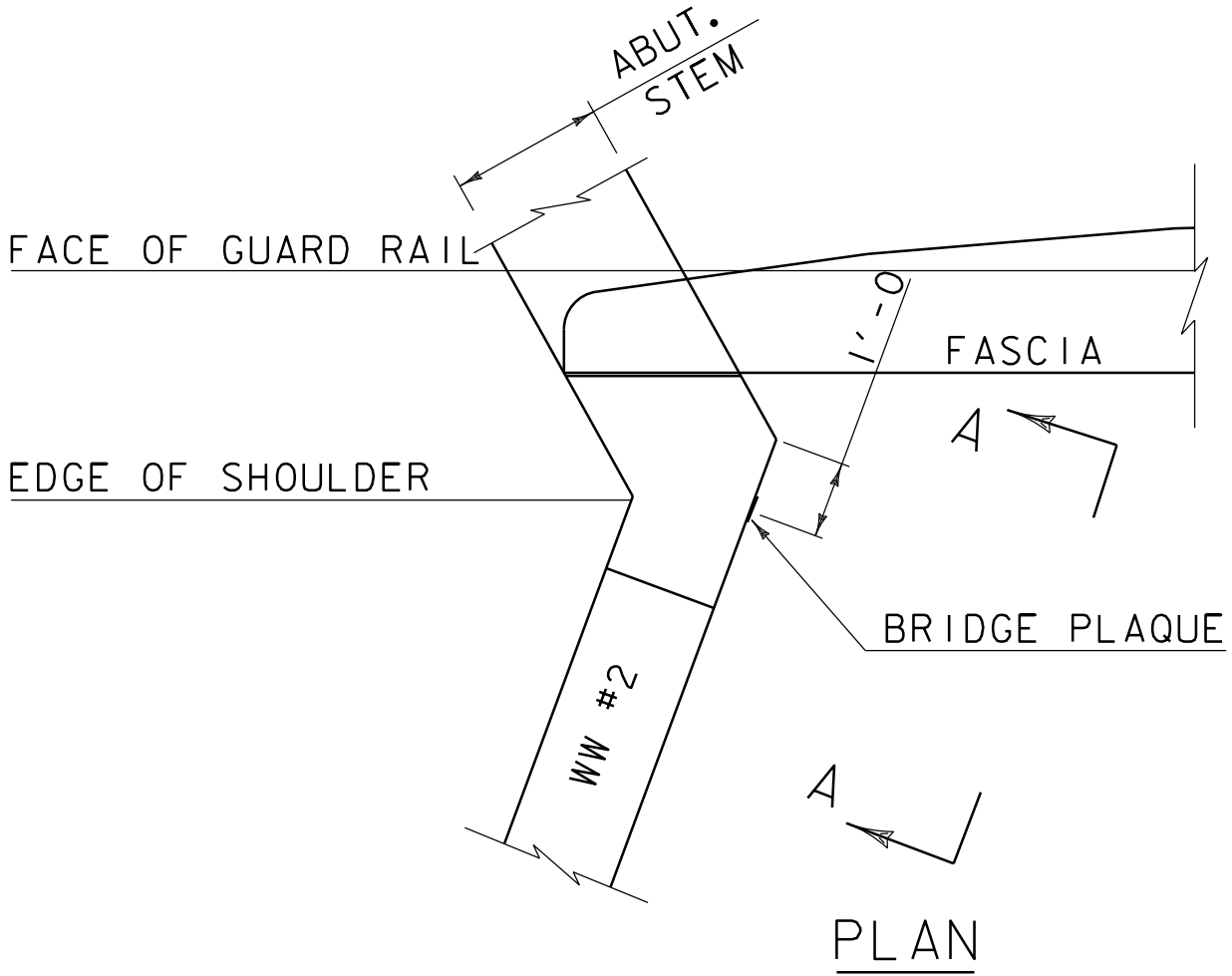
CONCRETE CURB JOINT SECTION
(NOT TO SCALE)



SECTION B - B
(NOT TO SCALE)



ACUTE ANGLE
CLIP DETAIL
(NOT TO SCALE)

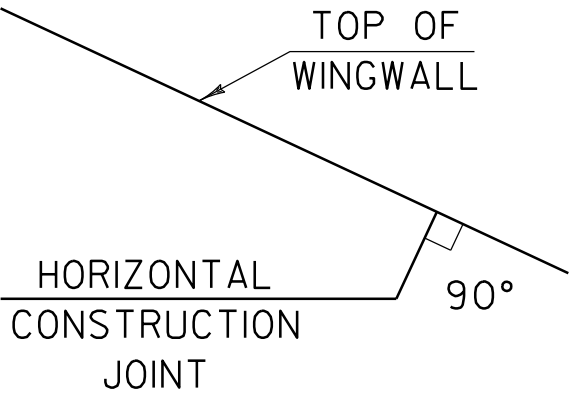


THE BRIDGE PLAQUE WILL BE SUPPLIED BY THE AGENCY OF TRANSPORTATION AND SHALL BE INSTALLED BY THE CONTRACTOR AT ABUTMENT #1 ON THE RIGHT SIDE AS SHOWN OR AS DIRECTED BY THE ENGINEER.

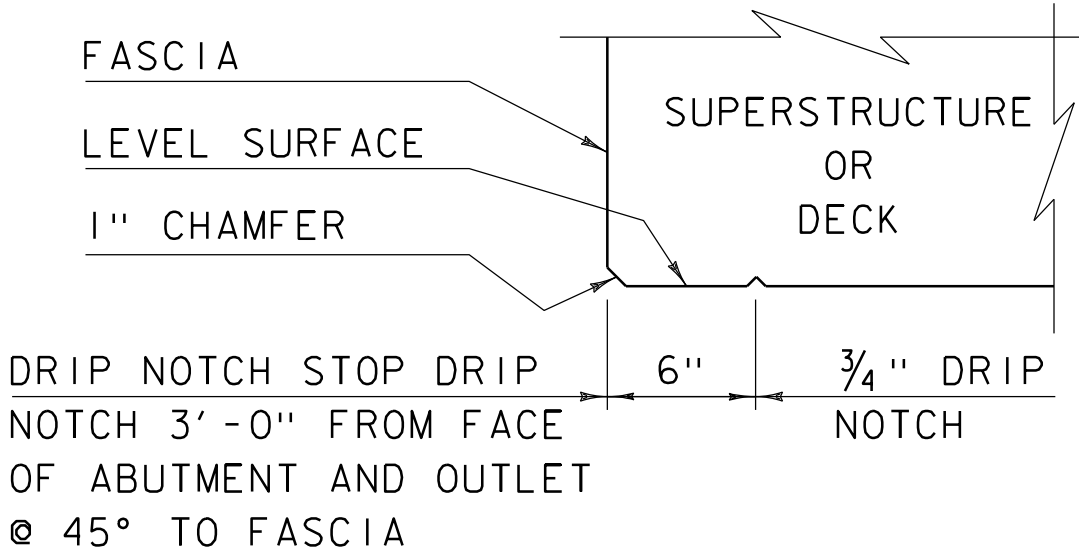
PAYMENT FOR INSTALLATION OF THE BRIDGE PLAQUE SHALL BE INCIDENTAL TO THE ADJACENT CONCRETE.

CONCRETE CURB JOINT NOTES

1. CONCRETE CURBS MAY BE PLACED IN ONE CONTINUOUS OPERATION IF AN APPROVED SHRINKAGE REDUCING ADMIXTURE LISTED IN THE SPECIAL PROVISIONS IS USED WITH THE CONCRETE MIX DESIGN. PAYMENT FOR THE SHRINKAGE REDUCING ADMIXTURE WILL BE INCIDENTAL TO THE BRIDGE CURB CONCRETE ITEM.
2. IF THE CONTRACTOR CHOOSES NOT TO USE AN APPROVED SHRINKAGE REDUCING ADMIXTURE, THE CURBS SHALL BE CONSTRUCTED WITH CONSTRUCTION JOINTS SPACED AT A MAXIMUM OF 15'-0" CENTER TO CENTER AND 2'-0" MINIMUM FROM THE CENTER OF NEAREST BRIDGE RAILING POST.
3. ON MULTI-SPAN CONTINUOUS SUPERSTRUCTURES, REGARDLESS OF WHETHER APPROVED SHRINKAGE REDUCING ADMIXTURE IS USED, CURB JOINTS SHALL BE LOCATED OVER THE CENTERLINE OF PIERS AND 7'-0" EACH SIDE OF THE CENTERLINE OF EACH PIER.
4. WHEN CURB JOINTS ARE USED THE CURBS SHALL BE PLACED IN ALTERNATE SECTIONS WITH A MINIMUM OF 48 HOUR DELAY BETWEEN ADJACENT PLACEMENTS.
5. LONGITUDINAL REINFORCING SHALL BE CONTINUOUS THROUGH CURB CONSTRUCTION JOINTS. CURB STIRRUP BARS SHALL BE TURNED AS NECESSARY TO MAINTAIN COVER IN THE FLARED CURB ENDS.
6. THE JOINT SPACING AND DETAILS SHOWN SHALL APPLY TO SIDEWALKS WHEN SHOWN IN THE PLANS.

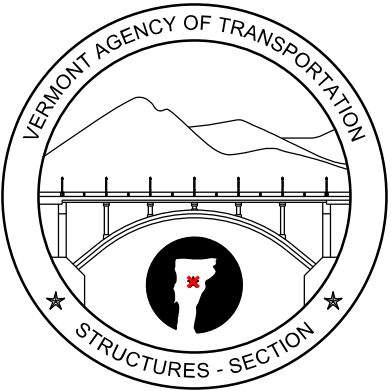


HORIZONTAL WINGWALL
CONSTRUCTION JOINT
(NOT TO SCALE)



DIP NOTCH DETAIL
(NOT TO SCALE)

CONCRETE
DETAILS AND NOTES



STRUCTURES
DETAIL
SD-502.00

ASPHALTIC PLUG JOINT NOTES

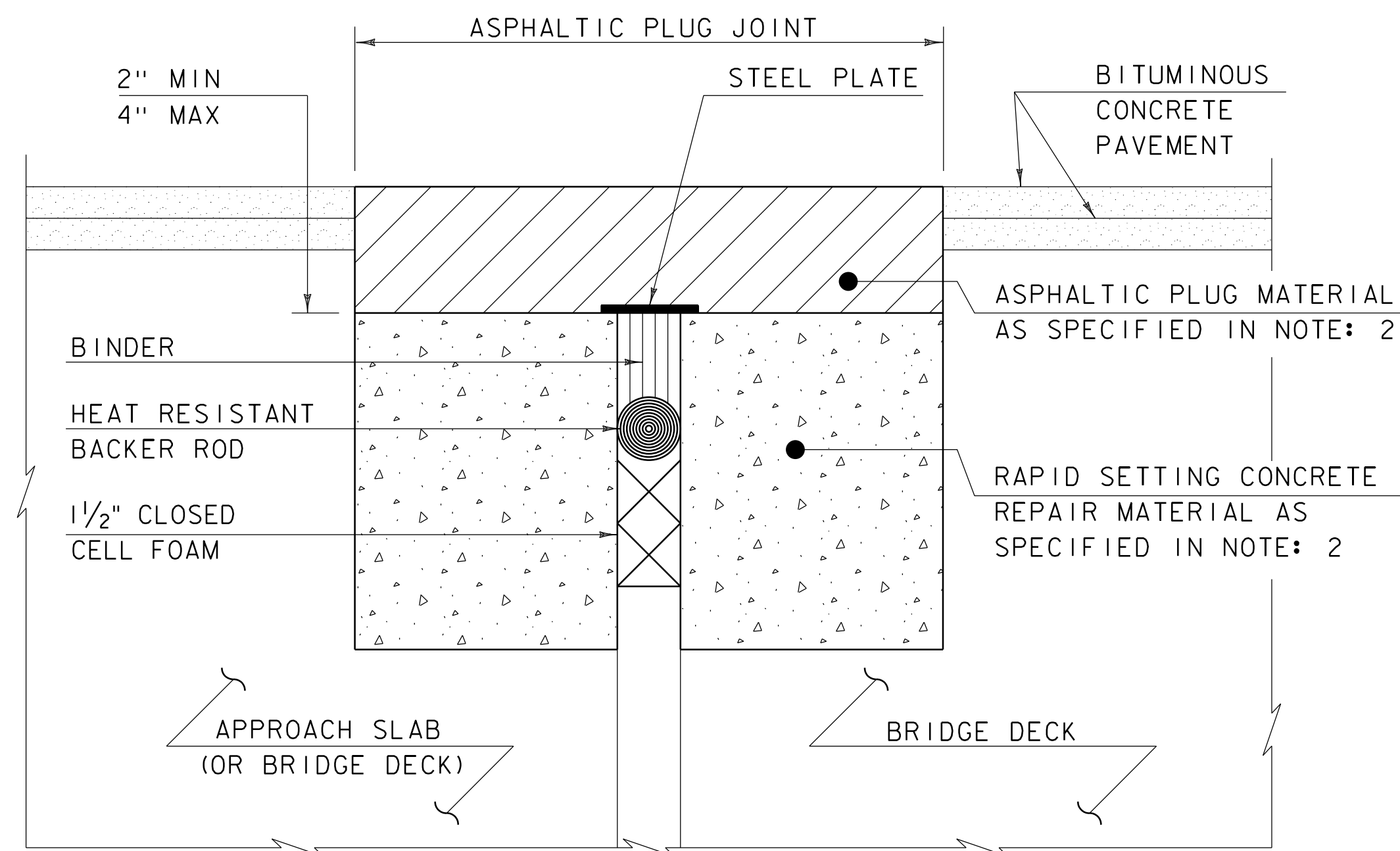
INSTALLATION:

1. LOCATE THE JOINT CENTRALLY OVER THE DECK EXPANSION GAP OR FIXED JOINT, MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.
2. REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.
3. BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.
4. REPAIR MATERIAL GREATER THAN 4 INCHES FROM FINISHED GRADE WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
5. PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1" +/- OF BINDER ABOVE THE ROD.
6. HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.
7. PLACE 1/4" THICK BY 8" WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRE-STAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.
8. HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.
9. INSTALLATION OF MATERIAL, COMPACTION, AND TOP COATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
10. IMMEDIATELY AFTER TOP COATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.
11. ONCE THE JOINT REACHES 82 DEG C (180 DEG F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.
12. PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

WEATHER LIMITATIONS

APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

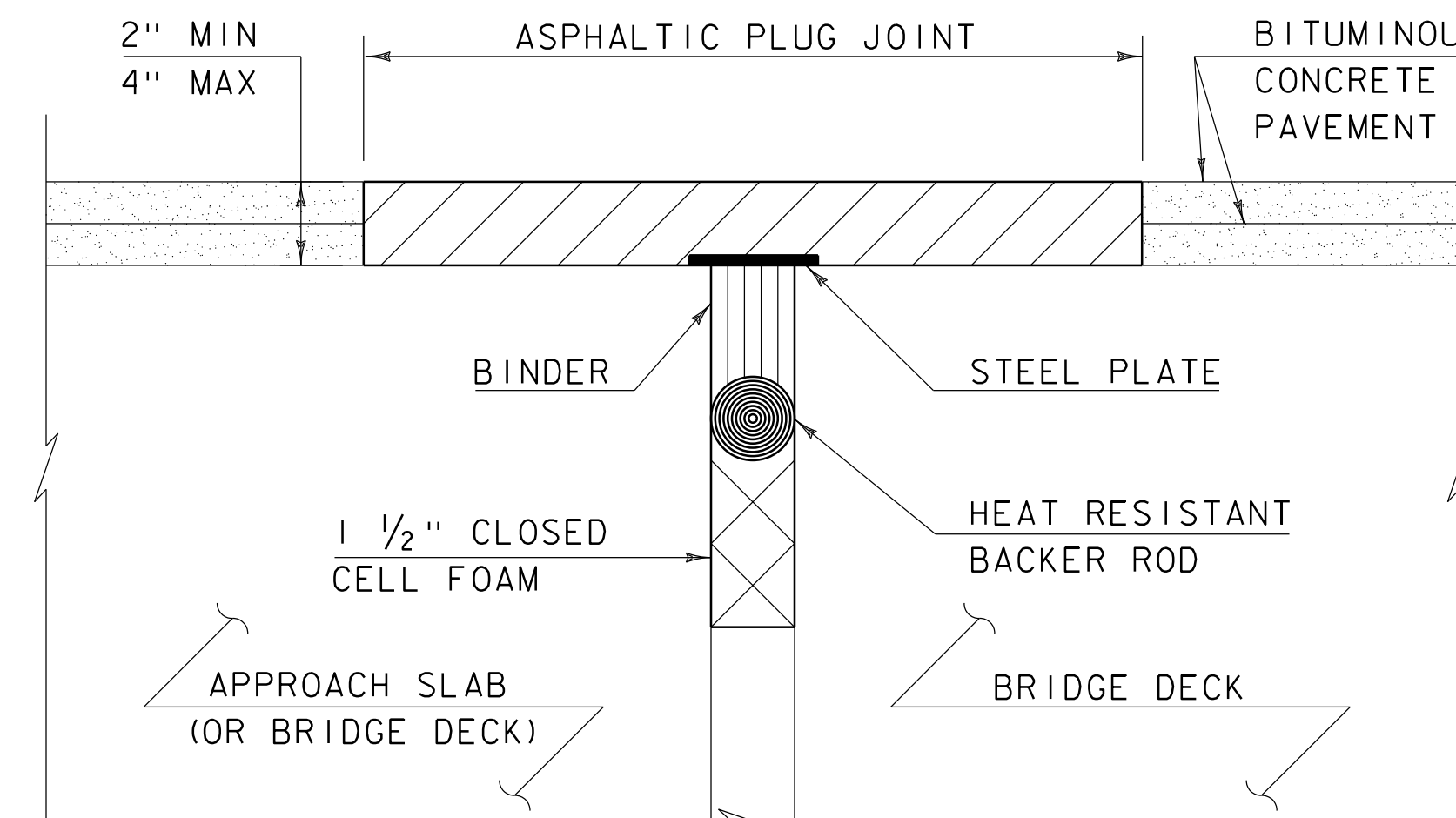
1. THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
2. THE ROAD SURFACE IS DRY.
3. WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF SATISFACTORY WORK.



ASPHALTIC PLUG-TYPE JOINT DETAIL - REHAB

NOTES: (NOT TO SCALE)

1. THE CONTRACTOR SHALL REMOVE ALL ASPHALTIC PLUG JOINT MATERIAL AND DETERIORATED CONCRETE AS DIRECTED BY THE ENGINEER. REMOVAL OF THE FIRST 4 INCHES OF MATERIAL SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 516.10 BRIDGE EXPANSION JOINT, ASPHALTIC PLUG. ANY REMOVAL OF MATERIAL GREATER THAN 4 INCHES SHALL BE INCLUDED IN THE BID PRICE OF ITEM 580.20 RAPID SETTING CONCRETE REPAIR MATERIAL WITH COURSE AGGREGATE.
2. THE CONTRACTOR SHALL REPLACE REMOVED MATERIAL THAT IS LESS THAN 4" FROM FINISHED GRADE WITH ASPHALTIC PLUG JOINT MATERIAL MEETING THE REQUIREMENTS OF SUBSECTION 707.15. ALL REMOVED MATERIAL THAT IS GREATER THAN 4 INCHES FROM FINISHED GRADE SHALL BE REPLACED WITH RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE MEETING THE REQUIREMENTS OF SUBSECTION 780.04.
3. REINFORCING STEEL NOT SHOWN FOR CLARITY.

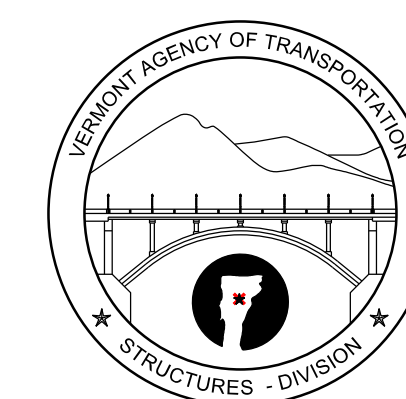


ASPHALTIC PLUG-TYPE JOINT DETAIL - NEW

(NOT TO SCALE)

[illegible]

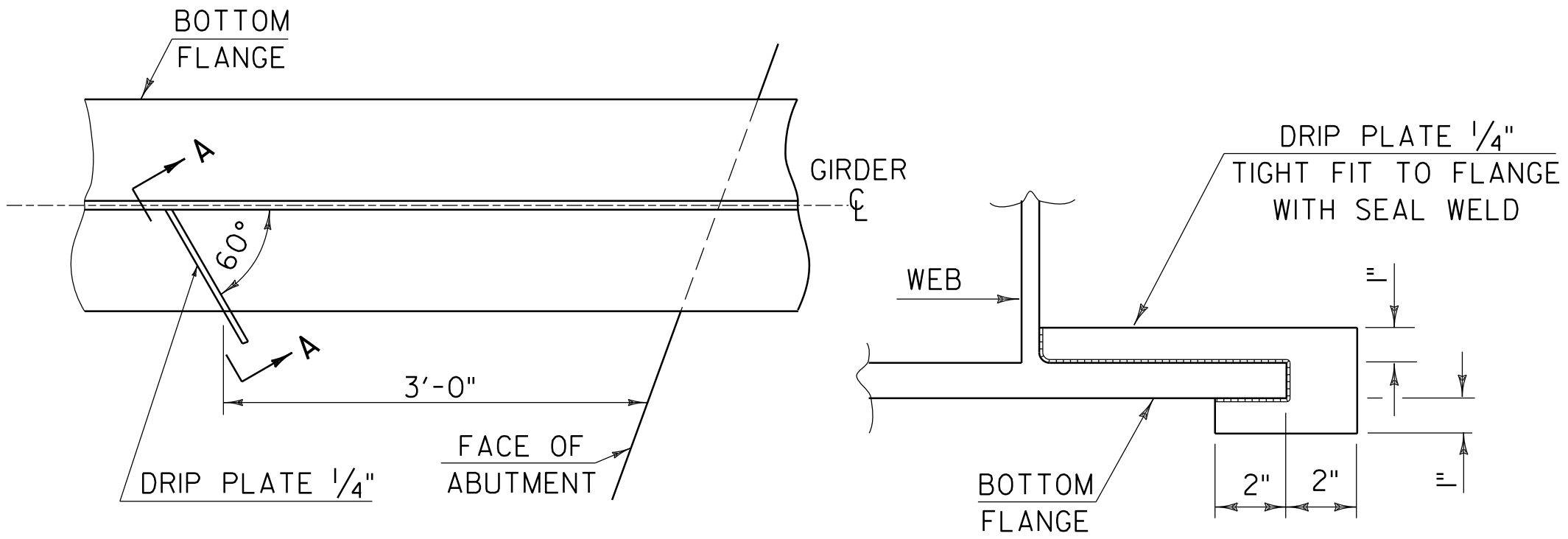
BRIDGE JOINT ASPHALTIC PLUG



STRUCTURES
DETAIL
SD-516.10

STRUCTURAL STEEL GENERAL NOTES:

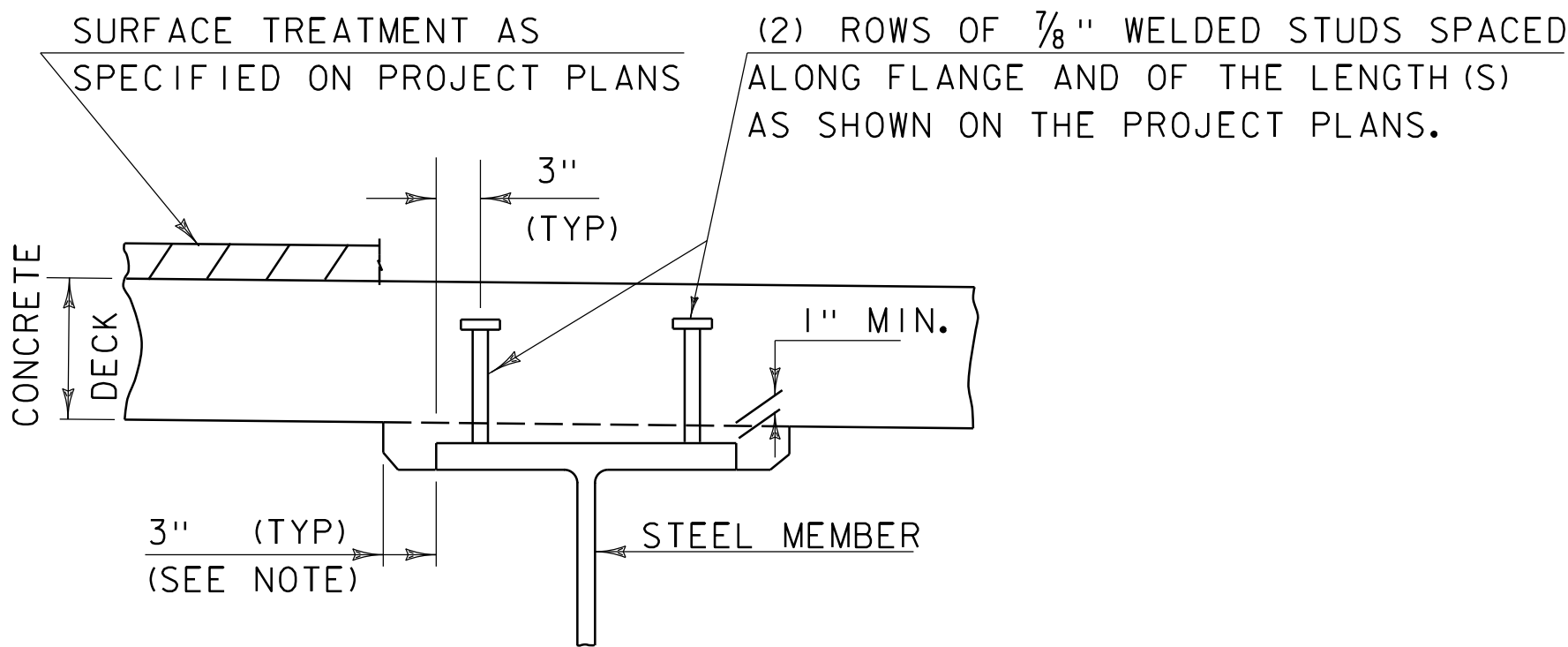
- 1. ALL FIELD CONNECTIONS SHALL BE MADE WITH 7/8" DIAMETER HIGH-STRENGTH BOLTS IN 15/16" DIAMETER HOLES, PER SUBSECTION 506.19, UNLESS OTHERWISE SPECIFIED.
- 2. ALL HOLES IN THE WEBS OF THE FASCIA GIRDERS THAT ARE NOT OTHERWISE FILLED, SHALL BE FILLED WITH EITHER BUTTON HEAD OR HEX HEAD BOLTS. THESE BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH SUBSECTION 506.19.
- 3. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF SUBSECTION 506.10.
- 4. ANY CONNECTIONS THAT ARE NOT DETAILED ON THE PLANS SHALL BE DETAILED BY THE FABRICATOR AND SUBMITTED TO THE STRUCTURES ENGINEER FOR APPROVAL.
- 5. STRUCTURAL STEEL MEMBERS DESIGNATED "CVN" IN THE PLANS SHALL BE CHARPY V-NOTCH TESTED IN ACCORDANCE WITH SUBSECTION 714.01 OF THE STANDARD SPECIFICATIONS.
- 6. ENDS OF GIRDERS ARE TO BE VERTICAL IN THEIR FINAL POSITION.
- 7. AFTER SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF THE GIRDERS SHALL BE TAKEN AS DIRECTED BY THE RESIDENT ENGINEER FOR USE IN DETERMINING FINISHED GRADES.



PLAN DRIP PLATE

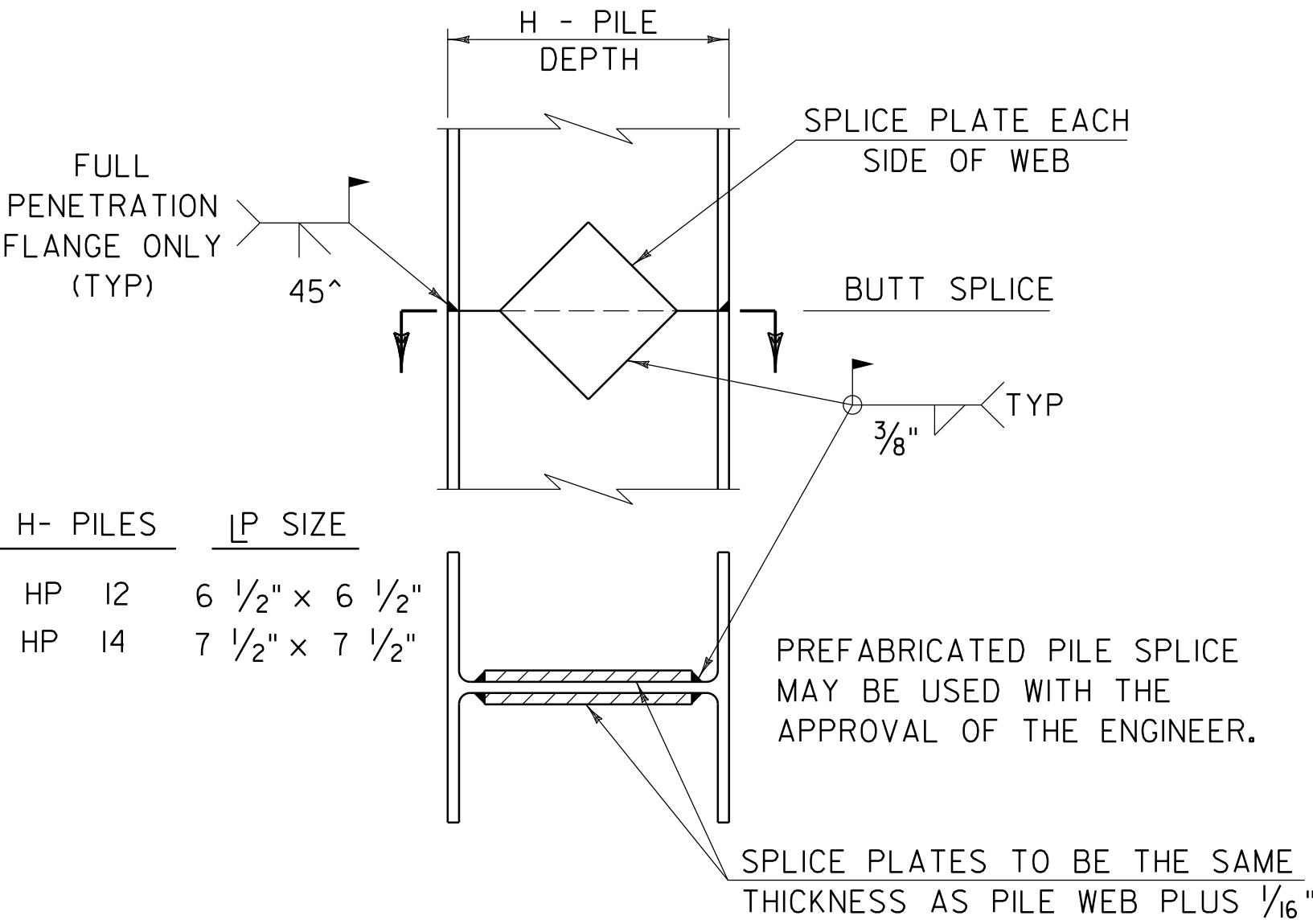
SECTION A - A

NOTE: DRIP PLATES SHALL BE PLACED ON OUTSIDE EDGE OF FASCIA GIRDERS ON THE HIGH SIDE OF ALL PIERS AND ABUTMENTS OR AS INDICATED ON PROJECT PLANS.



NOTE:
THE 3" HORIZONTAL SECTION MAY BE ELIMINATED FOR FORMING SYSTEMS DESIGNED FOR THE CONSTRUCTION OF VERTICAL HAUNCHES. ANY VOIDS RESULTING FROM FORMING SYSTEM ELEMENTS SHALL BE FILLED WITH JOINT SEALER, POLYURETHANE MEETING THE REQUIREMENTS OF SECTION 524. THE COST OF THE JOINT SEALER, POLYURETHANE SHALL BE INCIDENTAL TO THE ADJACENT CONCRETE.

HAUNCH AND SHEAR CONNECTOR DETAIL

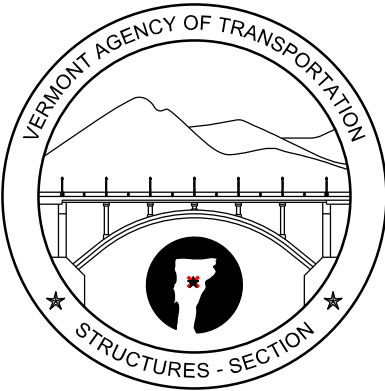


DETAIL OF PILE SPLICE

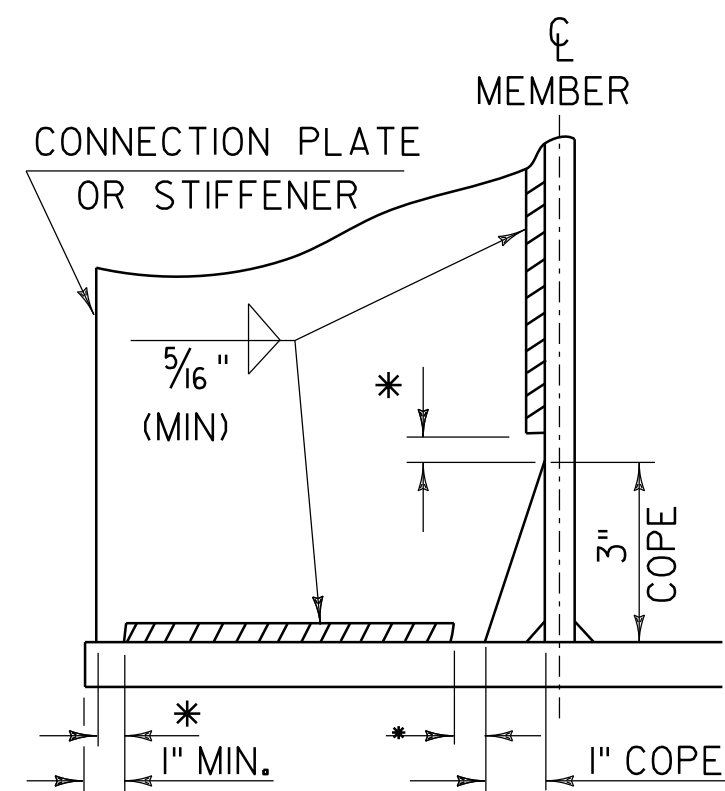
DETAILS ON THIS SHEET ARE "NOT TO SCALE" UNLESS NOTED OTHERWISE.

REVISIONS	
MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION
JUNE 4, 2010	MODIFIED NOTES

STRUCTURAL STEEL
DETAILS & NOTES

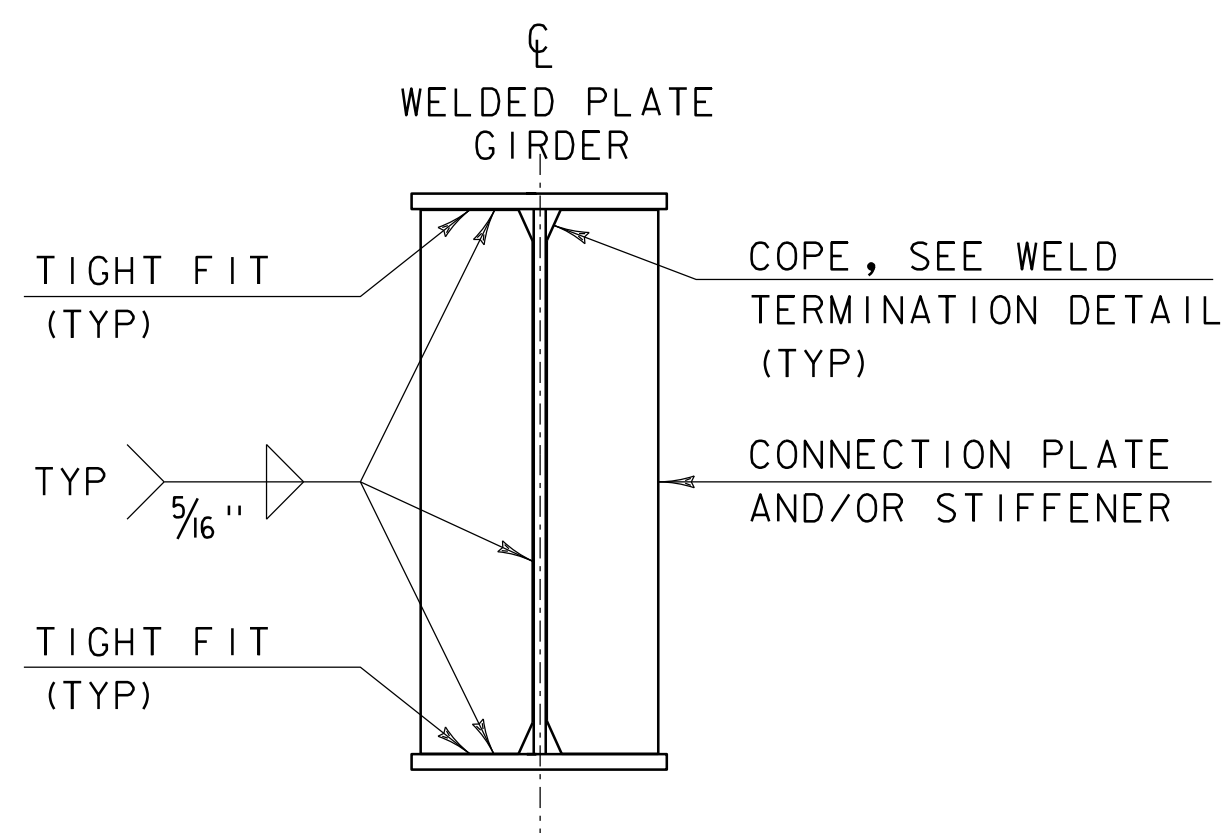


STRUCTURES
DETAIL
SD-601.00



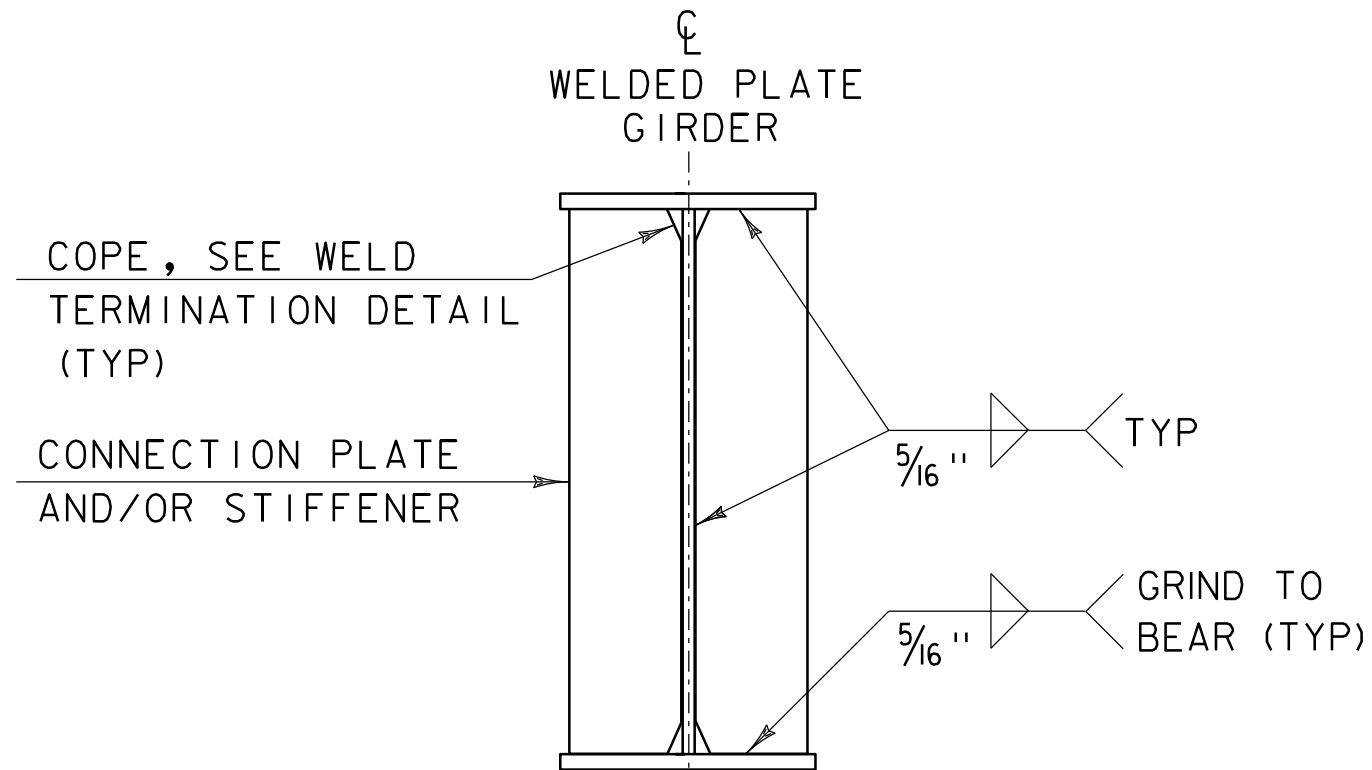
WELD TERMINATION AND COPING
DETAILS FOR STEEL MEMBERS

*NO WELD FOR 3/8" MIN. 7/8" MAX. (EXCEPT MUST
MAINTAIN 1" MINIMUM FROM EDGE OF FLANGE)

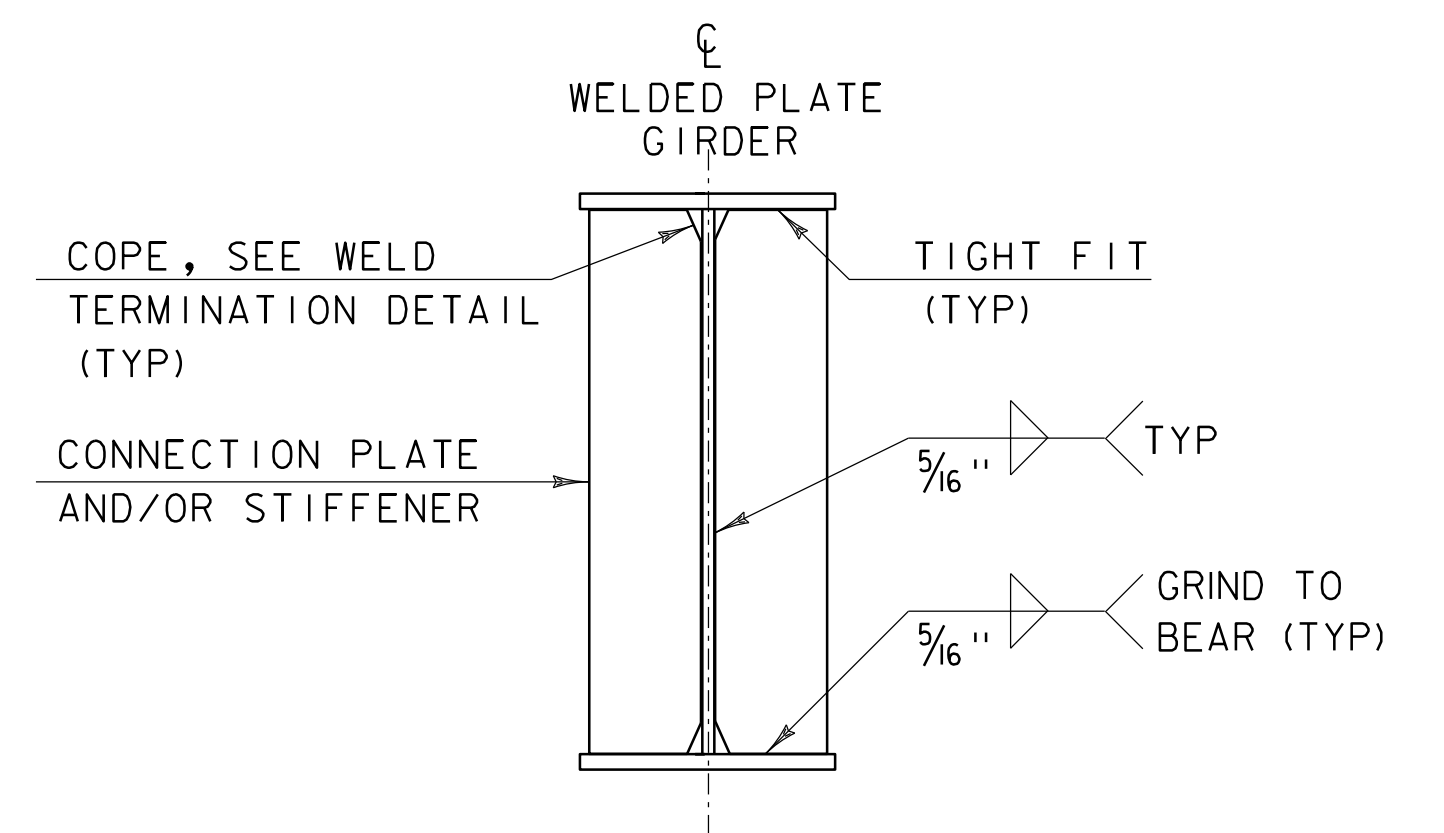


INTERMEDIATE CONNECTION PLATES
AND/OR STIFFENERS FOR WELDED
PLATE GIRDERS

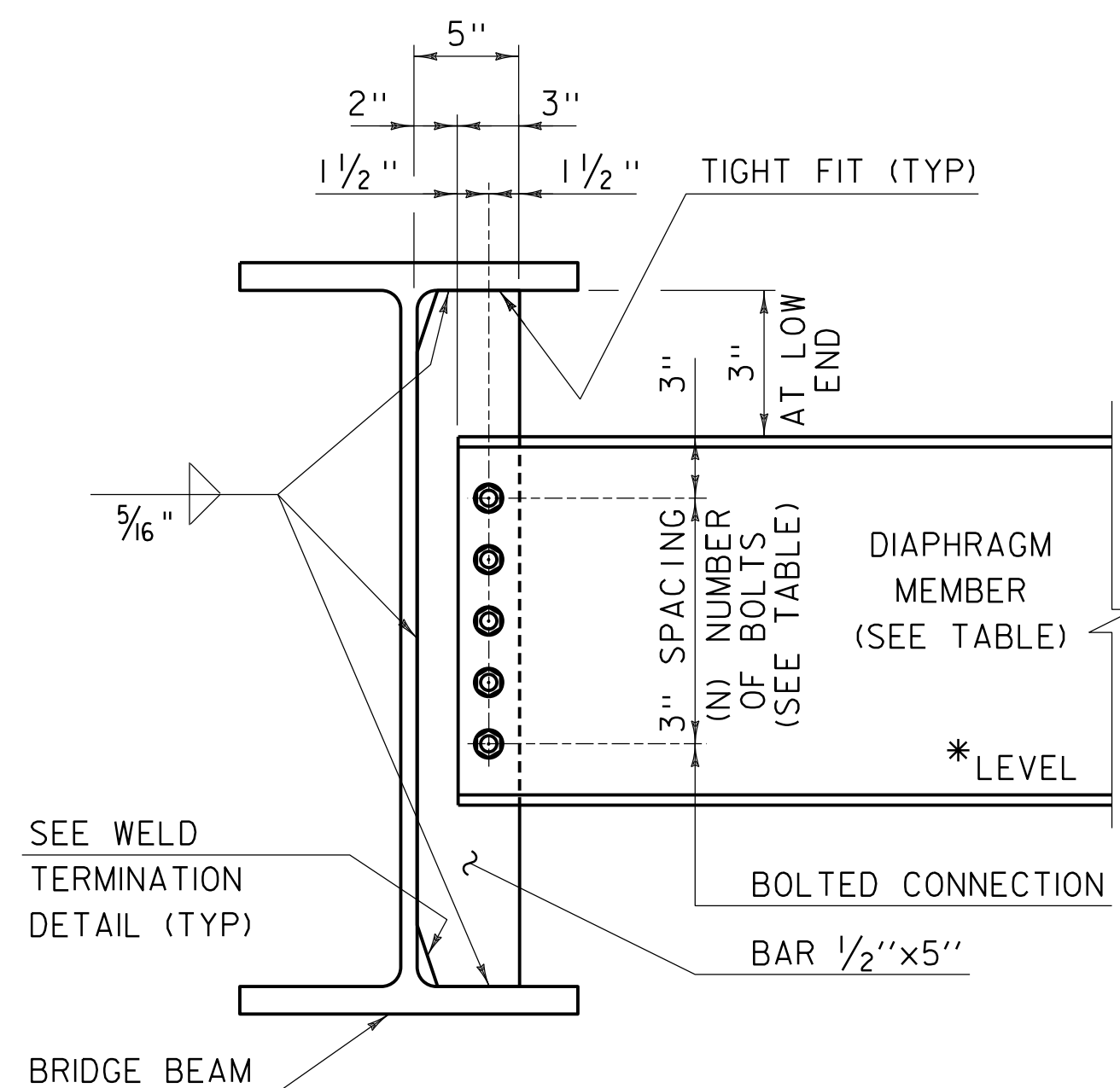
INTERMEDIATE DETAIL IS ONLY USED WHEN PLATE DOES
NOT OCCUR AT AN ABUTMENT OR PIER.



ABUTMENT BEARING STIFFENERS
AND/OR CONNECTION PLATES
FOR WELDED PLATE GIRDERS



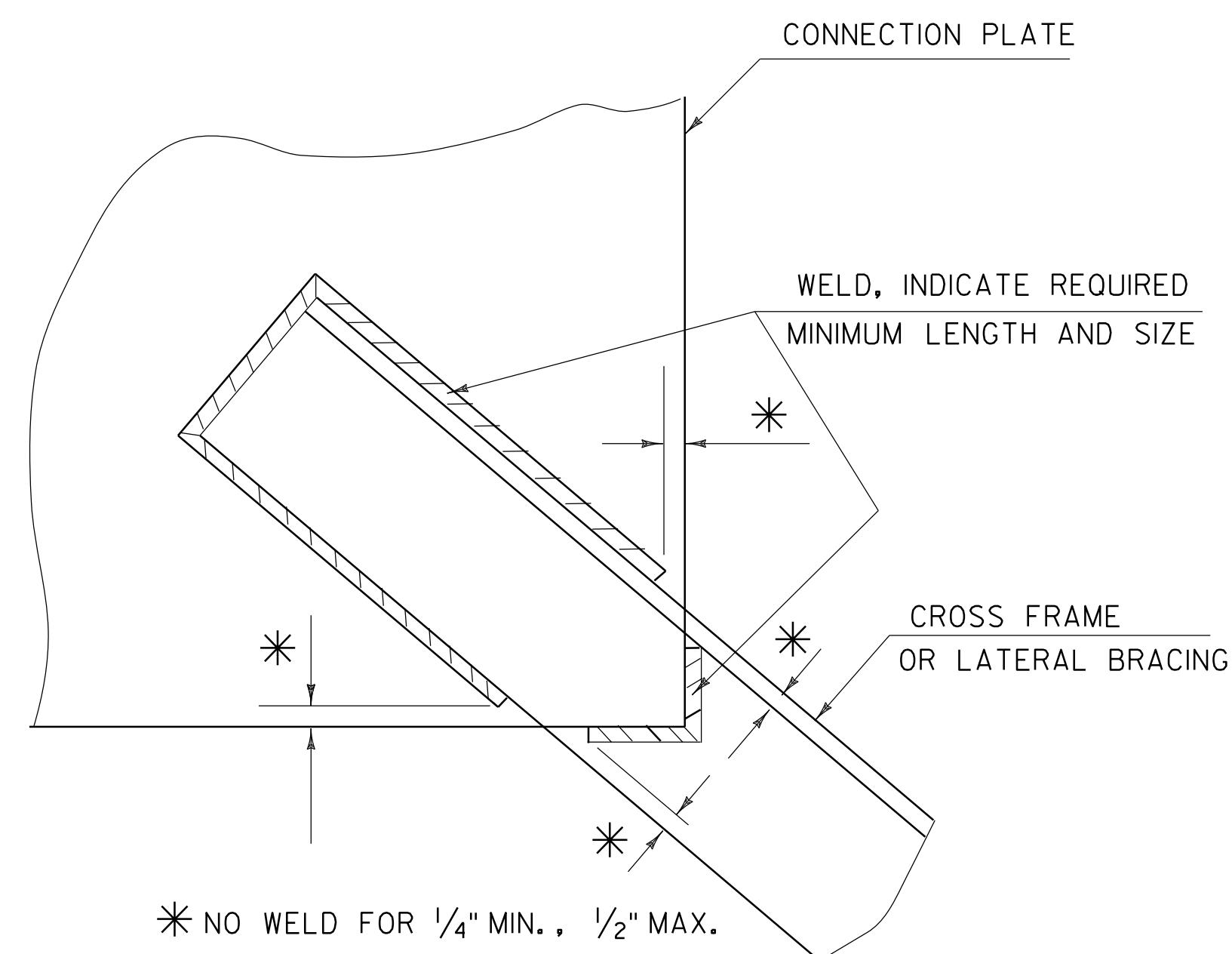
PIER BEARING STIFFENERS
AND/OR CONNECTION PLATES
FOR WELDED PLATE GIRDERS



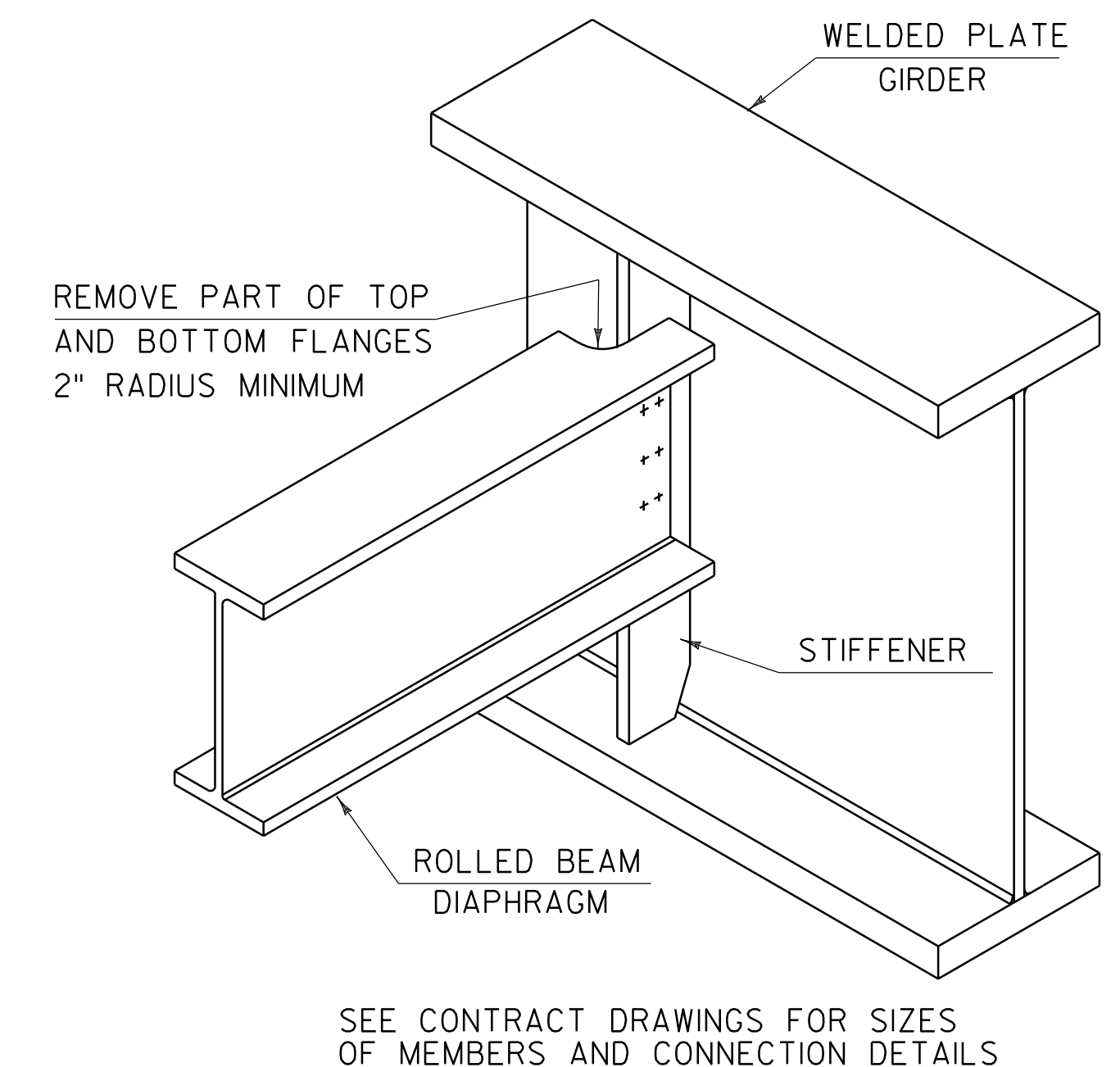
INTERMEDIATE DIAPHRAGMS
FOR 24" TO 48" BRIDGE BEAMS

* IF CLEARANCE CANNOT BE MET, DIAPHRAGM MAY BE SLOPED.

	DEPTH	DIAPHRAGM MEMBER	(N) BOLTS
ROLLED BEAM	24"	C15x33.9	4
	30"		
	31"	MC18x42.7	5
	36"		
PLATE GIRDER WEB	37"	W21x44	6
	42"		
	31"	W27x84	7
	36"		
	37"	W33x118	9
	42"		
	43"	W36x135	10
	48"		



WELD LOCATION DETAIL AT CROSS
FRAMES AND LATERAL BRACING

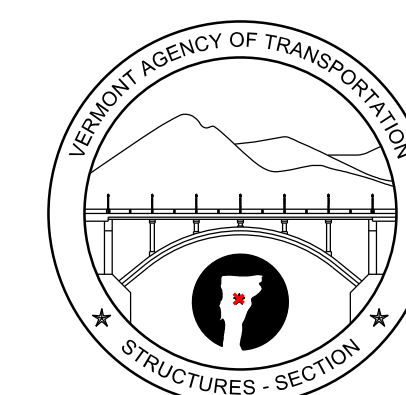


ROLLED BEAM USED AS DIAPHRAGM

DETAILS ON THIS SHEET ARE "NOT TO SCALE" UNLESS NOTED OTHERWISE.

REVISIONS	
MAY 7, 2010	APPROVED FOR USE BY VAOT STRUCTURES SECTION
MAY 2, 2011	ADD INTERMEDIATE DIAPHRAGMS DETAIL & ADD NOT TO SCALE NOTE

STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES



STRUCTURES
DETAIL
SD-602.00