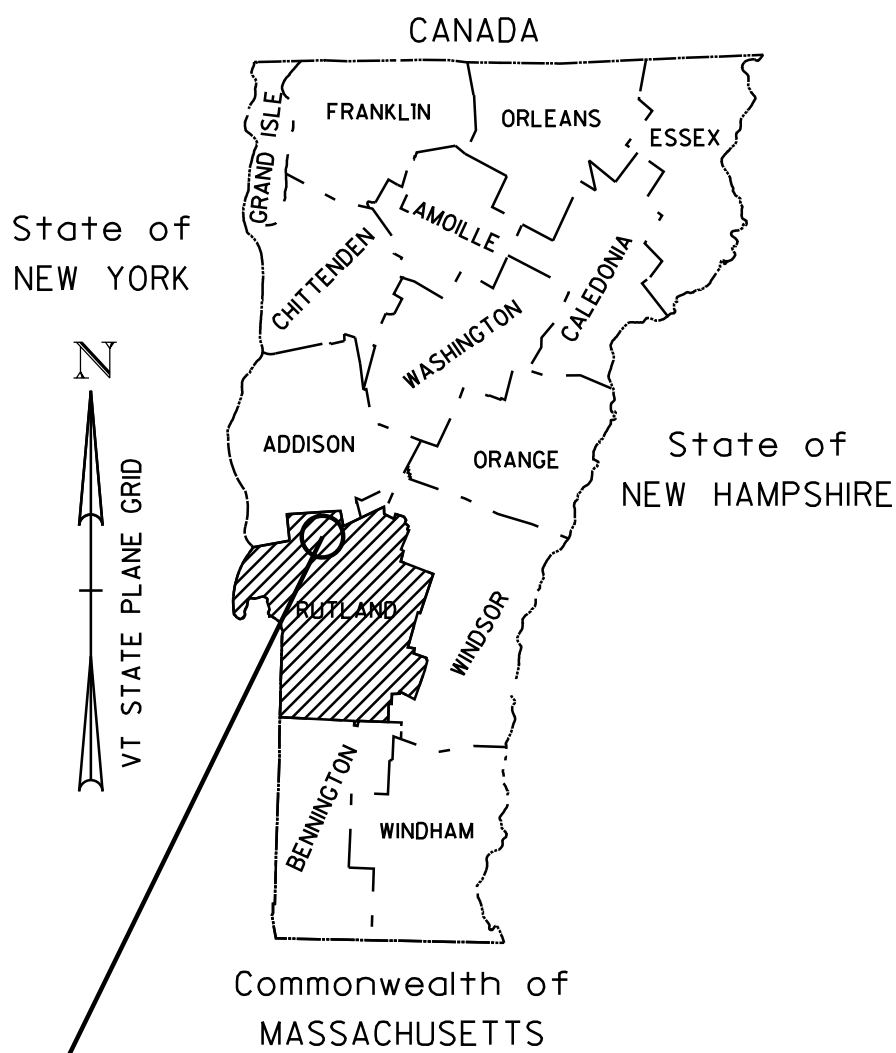
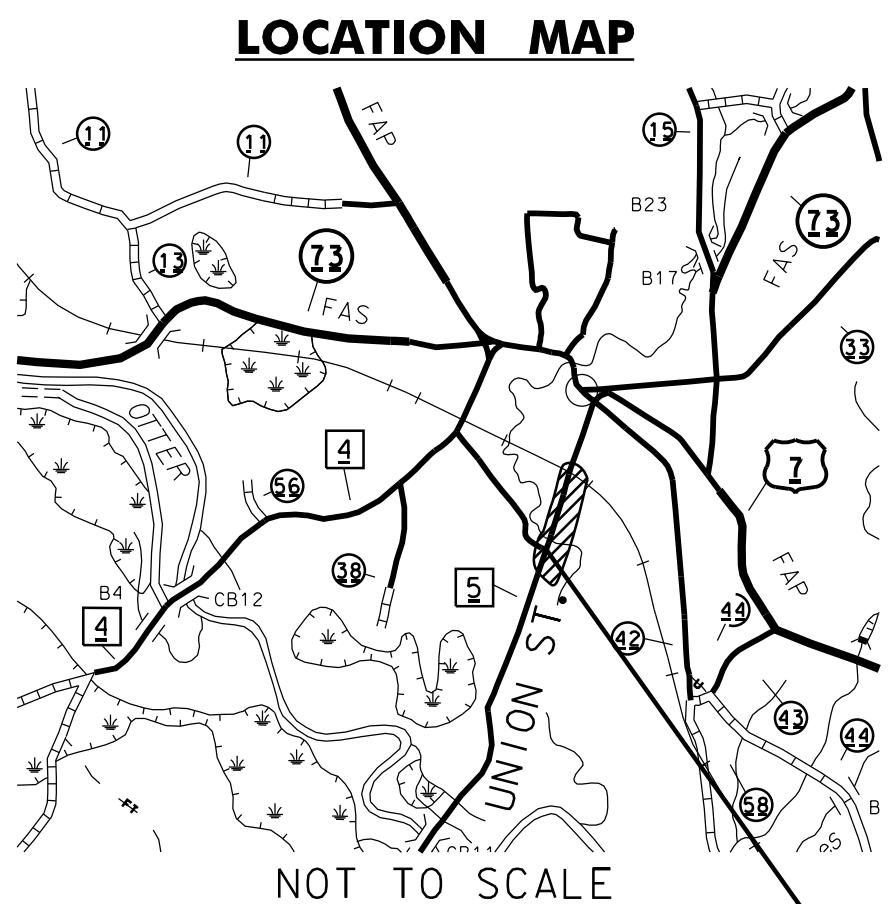


TOWN OF BRANDON  
COUNTY OF RUTLAND  
PROPOSED IMPROVEMENT  
BRANDON STP EH 05 (4)  
UNION STREET SIDEWALK PROJECT



**PROJECT LOCATION**  
**BRANDON STP EH 05 (4)**

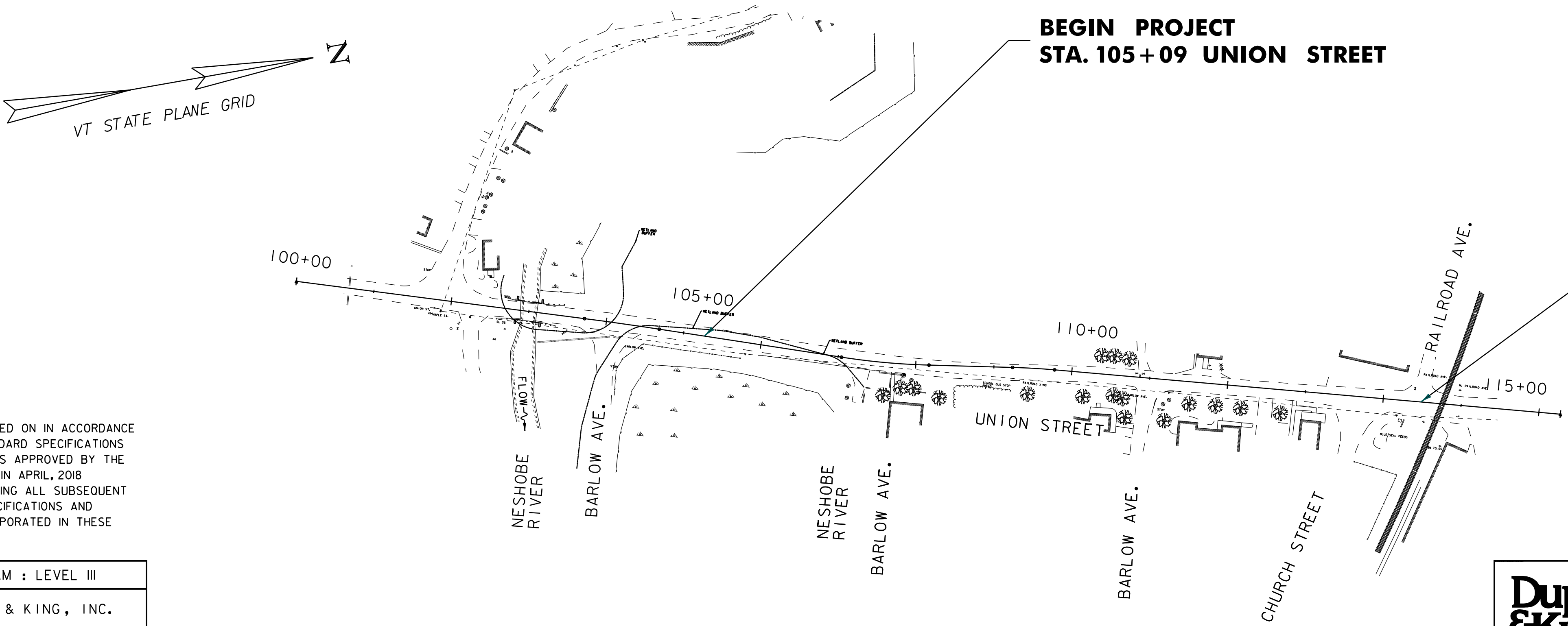
**PROJECT LOCATION:** UNION STREET - STARTING ON THE EAST SIDE OF THE STREET NORTH OF THE NESHOBE RIVER AND BARLOW AVE. THEN CONTINUING FOR APPROXIMATELY 692 FT. AND TERMINATING ON THE SOUTH SIDE OF THE INTERSECTION OF UNION STREET WITH THE RAILROAD.

**PROJECT DESCRIPTION:** WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES PAVEMENT AND SUBBASE, CONSTRUCTION OF A PORTLAND CEMENT CONCRETE SIDEWALK, GRANITE CURBING, A MODULAR BRICK RETAINING WALL, INTERSECTION MODIFICATIONS, PAVING DRIVEWAY APRONS, AND DRAINAGE IMPROVEMENTS. ADDITIONAL PROJECT ELEMENTS INCLUDE THE INSTALLATION OF CATCH BASINS, CROSSWALK MARKINGS, SIGNING, AND OTHER INCIDENTAL ITEMS.

**LENGTH OF SIDEWALK:** UNION STREET (CONC. SIDEWALK) - 692 FT. (0.131 MILE)

**LENGTH OF PROJECT:** 871 FT. (0.165 MILE)

**CONSTRUCTION PLANS**  
**MAY 2019**



**BEGIN PROJECT**  
**STA. 105+09 UNION STREET**

**END PROJECT**  
**STA. 113+80 UNION STREET**

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION IN APRIL, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL III

SURVEYED BY : DUBOIS & KING, INC.  
SURVEYED DATE : DECEMBER 2006

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83 (96)

PLOTTED 4/24/2019

**DuBois & King**  
INC.



SCALE 1" = 100'-0"  
100 0 100

TOWN OF BRANDON  
CHAIRMAN, BOARD OF SELECTMEN

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

TOWN OF BRANDON  
TOWN MANAGER

APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

PROJECT MANAGER : DAVID CONGER, P.E.

PROJECT NAME : BRANDON UNION ST. SIDEWALK  
PROJECT NUMBER : STP EH 05 (4)

SHEET 1 OF 26 SHEETS



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VTRANS STANDARDS FOR CONSTRUCTION

B-5	EMBANKMENT ON EARTH SLOPE , EMBANKMENT	06/01/94
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C-10	CURBING	02/11/08
C-2A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE	10/14/05
C-2B	ENTRANCES WITH SIDEWALK ADJACENT TO CURB	10/14/05
C-3A	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE	
C-3A	ENTRANCES WITH SIDEWALK AND GREEN STRIP	
C-3A	SIDEWALK RAMPS	03/10/08
C-3B	SIDEWALK RAMPS AND MEDIAN ISLANDS	03/10/08
D-1	PRECAST REINFORCED CONCRETE DROP INLET DETAILS	06/01/94
D-13	CONCRETE CATCH BASIN	01/03/00
D-6	REINFORCED CONCRETE DROP INLET W/ GRATE	06/01/94
D-15	PRECAST REINF CONC. MH-GRATES, CAST IRON GRATE	06/01/94
D-16	WITH FRAME, TYPE D & E	
D-16	DRAINAGE DETAILS INCLUDING DROP INLETS, IRON	06/01/94
D-33	GRATE TYPE B & C, CONC END SECTIONS, ETC.	
T-1	REINFORCED CONCRETE STRAIGHT HEADWALL	03/12/07
T-2	TRAFFIC CONTROL GENERAL NOTES	04/25/16
T-10	TRAFFIC SIGN GENERAL NOTES	04/25/16
T-10	CONVENTIONAL ROADS CONSTRUCTION	08/06/12
T-28	APPROACH SIGNING	
T-30	CONSTRUCTION SIGN DETAILS	08/06/12
T-35	CONSTRUCTION SIGN DETAILS	08/06/12
T-45	CONSTRUCTION ZONE LONGITUDINAL	
E-121	DROP OFFS	
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	PAVEMENT MARKING DETAILS	10/12/00
	PAVEMENT MARKING DETAILS	08/18/95



INDEX OF SHEETS

PROJECT NAME: BRANDON UNION STREET SW.  
PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452.idx.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
INDEX OF SHEETS	SHEET 2 OF 26



GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BDNS	BOUND SET
▣	BDNS	BOUND TO BE SET
●	IPNS	IRON PIN SET
⊙	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
▣	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
⌘	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
⌘	GV	GATE VALVE
⊕	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
⊕	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⌘	RRSIG	RAILROAD SIGNAL
⊕	RRSL	RAILROAD SWITCH LEVER
⊕	S	TREE SOFTWOOD
⊕	SAT	SATELLITE DISH
⊕	SHRUB	SHRUB
⊕	SIGN	SIGN
⊕	STUMP	STUMP
⊕	TEL	TELEPHONE POLE
⊙	TIE	TIE
⊕	TSIGN	SIGN W/DOUBLE POST
⊕	VCTRL	CONTROL VERTICAL
⊙	WELL	WELL
⌘	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —	· · · · ·	UTILITY (GENERIC-UNKNOWN)
— UT —	· · · · ·	TELEPHONE
— UE —	· · · · ·	ELECTRIC
— UC —	· · · · ·	CABLE (TV)
— UEC —	· · · · ·	ELECTRIC+CABLE
— UET —	· · · · ·	ELECTRIC+TELEPHONE
— UCT —	· · · · ·	CABLE+TELEPHONE
— UECT —	· · · · ·	ELECTRIC+CABLE+TELEP.
— G —	· · · · ·	GAS LINE
— W —	· · · · ·	WATER LINE
— S —	· · · · ·	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	· · · · ·	UTILITY (GENERIC-UNKNOWN)
— T —	· · · · ·	TELEPHONE
— E —	· · · · ·	ELECTRIC
— C —	· · · · ·	CABLE (TV)
— EC —	· · · · ·	ELECTRIC+CABLE
— ET —	· · · · ·	ELECTRIC+TELEPHONE
— AER E&T —	· · · · ·	ELECTRIC+TELEPHONE
— CT —	· · · · ·	CABLE+TELEPHONE
— ECT —	· · · · ·	ELECTRIC+CABLE+TELEP.
—	· · · · ·	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— · · —	CZ —	· · ·	CLEAR ZONE
—————			PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
— · · · · · —	BOTTOM OF DITCH
== == == == ==	CULVERT PROPOSED
— · · · · · —	STRUCTURE SUBSURFACE
PDF ——— PDF ———	PROJECT DEMARCATION FENCE
BF × × × × BF × × ×	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//// //// //// ////	STRIPING LINE REMOVAL
~~~~ ~~~~~ ~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

—————	TOWN LINE	—————	TOWN BOUNDARY LINE
—————	COUNTY LINE	—————	COUNTY BOUNDARY LINE
—————	STATE LINE	—————	STATE BOUNDARY LINE
———		———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
———		———	PROPOSED STATE R.O.W.
———		———	STATE ROW (LIMITED ACCESS)
———		———	STATE ROW
———		———	TOWN ROW
— · · —		— · · —	PERMANENT EASEMENT LINE (P)
— · · —		— · · —	TEMPORARY EASEMENT LINE (T)
+		+	SURVEY LINE
$\frac{P}{L}$		$\frac{P}{L}$	PROPERTY LINE (P/L)
△ — SR — ○ — △ — SR — ○			SLOPE RIGHTS
6f ——— 6f ———			6F PROPERTY BOUNDARY
4f ——— 4f ———			4F PROPERTY BOUNDARY
HAZ ——— HAZ ———			HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
▣ — ▣ — ▣ — ▣	SILT FENCE
▣ — × — × — × — ×	SILT FENCE WOVEN WIRE
▶ — ▶ — ▶ —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

ENVIRONMENTAL RESOURCES

———	WETLAND BOUNDARY
— · · —	RIPARIAN BUFFER ZONE
— · —	WETLAND BUFFER ZONE
— · · · · · —	SOIL TYPE BOUNDARY
——— T&E ———	THREATENED & ENDANGERED SPECIES
HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
——— AG ———	AGRICULTURAL LAND
——— HABITAT ———	FISH & WILDLIFE HABITAT
——— FLOOD PLAIN ———	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— ◆ — ◆ — ◆ —	STORM WATER
———	USDA FOREST SERVICE LANDS
— · · —	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

——— ARCH ———	ARCHEOLOGICAL BOUNDARY
——— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
——— HISTORIC ———	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

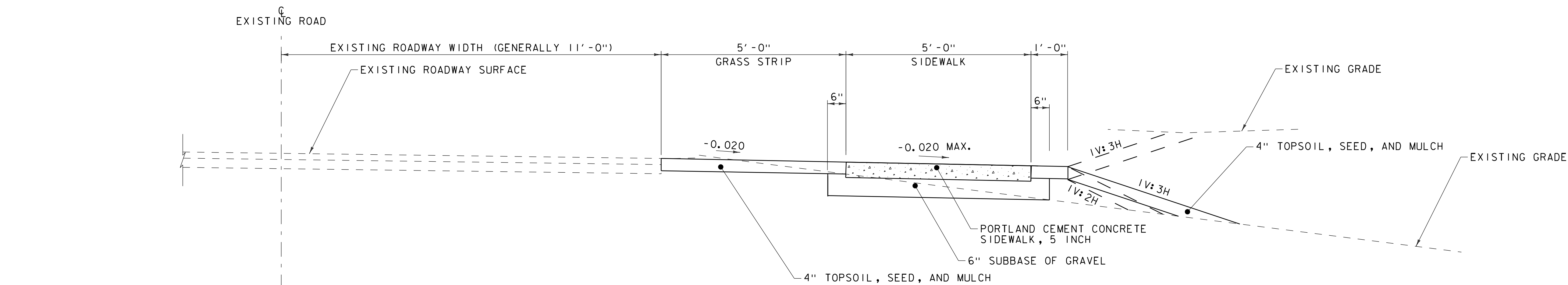
EXISTING FEATURES

— · · · · · —	ROAD EDGE PAVEMENT
— · · · · · —	ROAD EDGE GRAVEL
— · · · · · —	DRIVEWAY EDGE
— · · · · · —	DITCH
—————	FOUNDATION
× — × — × — × —	FENCE (EXISTING)
▣ — ▣ — ▣ — ▣ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~ ~~~~~	GARDEN
○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
== == == == ==	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○	STONE WALL
— · · · · · —	WALL
~~~~ ~~~~~	WOOD LINE
~~~~ ~~~~~	BRUSH LINE
~~~~ ~~~~~	HEDGE
———	BODY OF WATER EDGE
▣	LEDGE EXPOSED

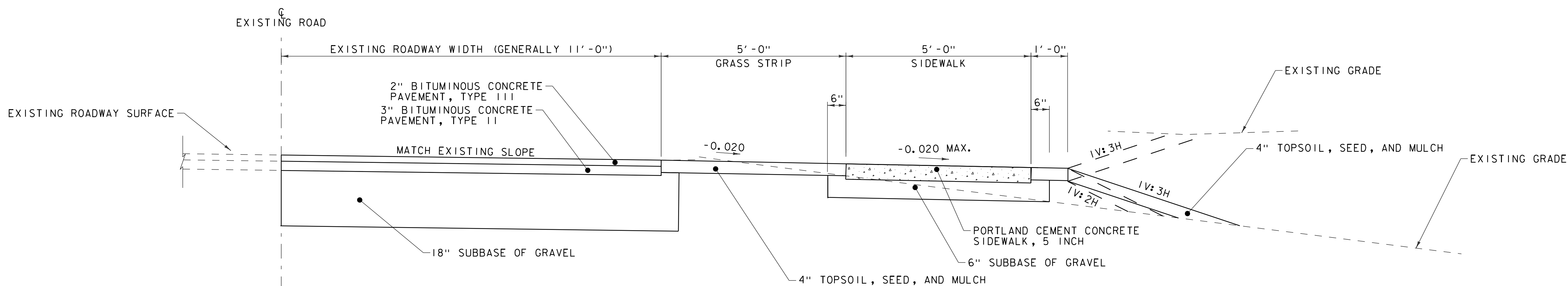


<b>CONVENTIONAL SYMBOLGY LEGEND</b>	PROJECT NAME: BRANDON UNION STREET SW.	
	PROJECT NUMBER: STP EH 05 (4)	
	FILE NAME: 6I9452_idx.dgn	PLOT DATE: 4/24/2019
	PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
	DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
	CONVENTIONAL SYMBOLGY LEGEND SHEET	SHEET 3 OF 26

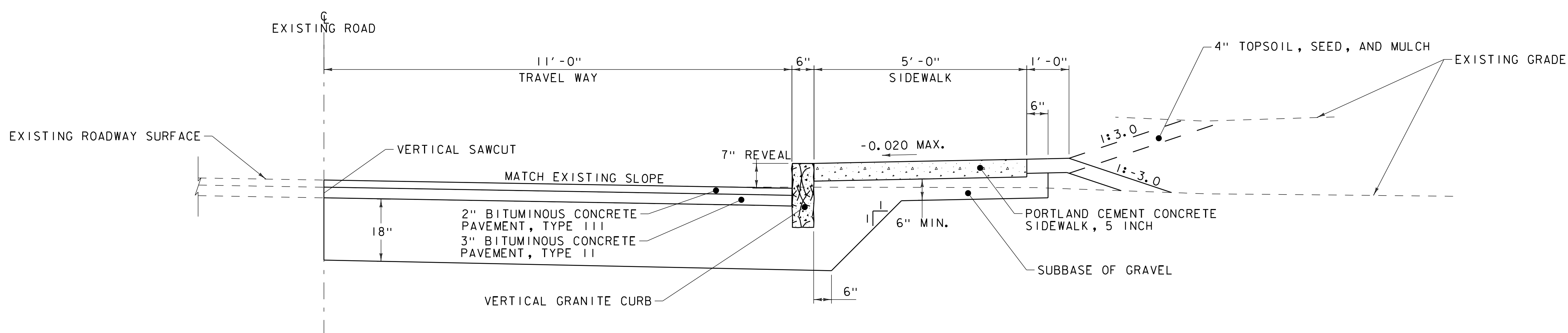




**TYPICAL SIDEWALK SECTION - UNION STREET STA. 106+87 - STA. 107+54**



**TYPICAL SIDEWALK SECTION - UNION STREET STA. 107+54 - STA. 108+02**



**TYPICAL SIDEWALK SECTION - UNION STREET  
STA. 108+02 - STA. 109+34  
STA. 109+96 - STA. 112+74**

**NOTES:**

1. TYPICAL SECTIONS REPRESENT GENERAL INTENT BETWEEN STATIONS. REFER TO CROSS SECTION SHEETS FOR SPECIFIC GEOMETRY AT SPECIFIC STATIONS.
2. ALL EXCAVATION SHALL BE PAID FOR UNDER ITEM 203.15, "COMMON EXCAVATION", UNLESS OTHERWISE NOTED.
3. ASPHALT TREATED FELT TO BE INCIDENTAL TO ITEM 616.21, "VERTICAL GRANITE CURB".

SCALE 3/4" = 1'-0"

**DuBois  
& King**

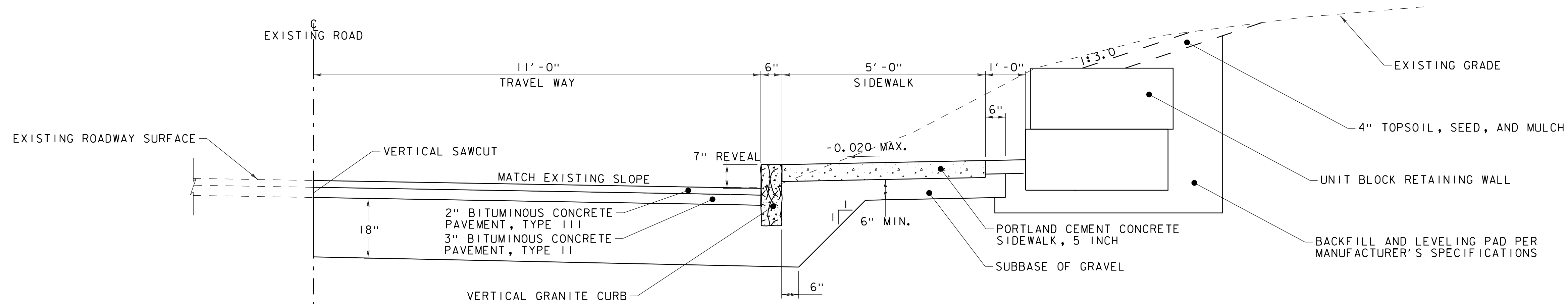
**TYPICAL  
SECTIONS  
SHEET 1**

PROJECT NAME: UNION STREET SIDEWALK  
PROJECT NUMBER: STP EH 05 (4)

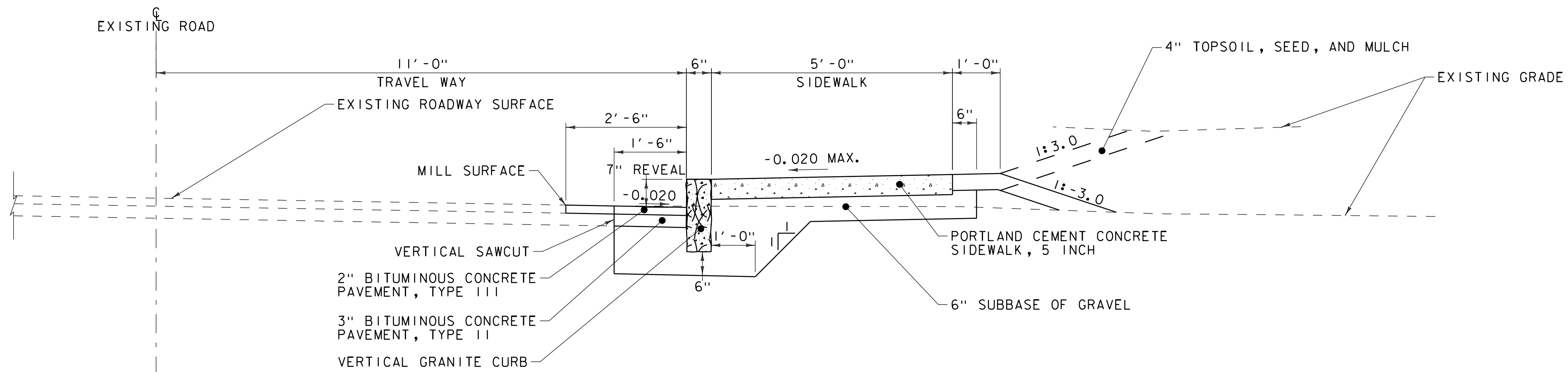
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PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
TYPICAL SECTIONS SHEET 1

PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 4 OF 26

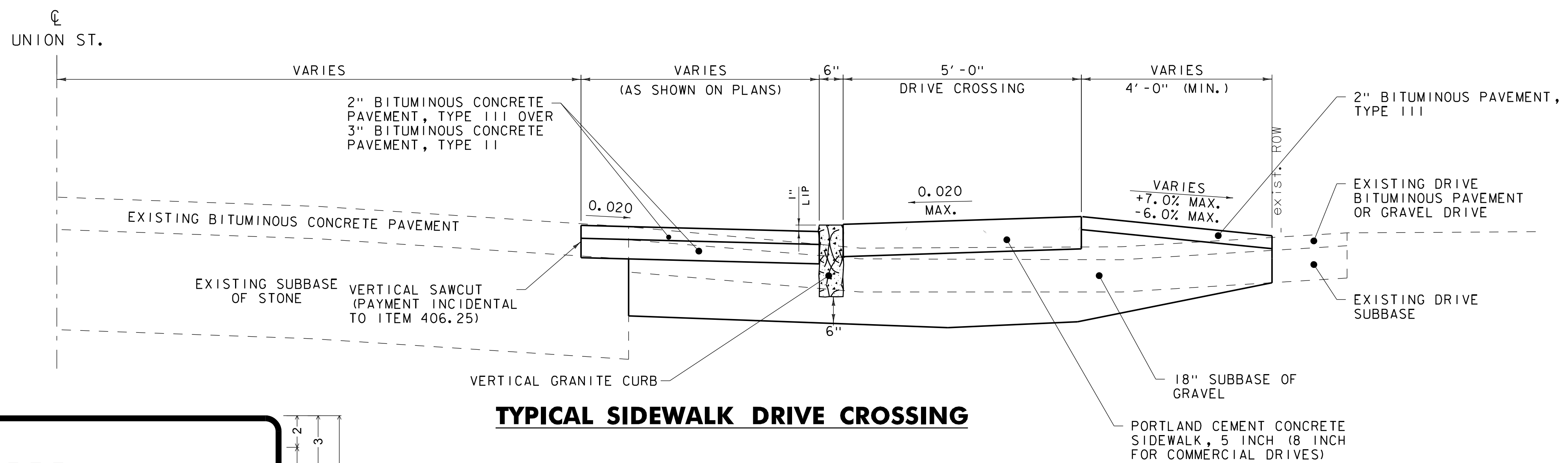




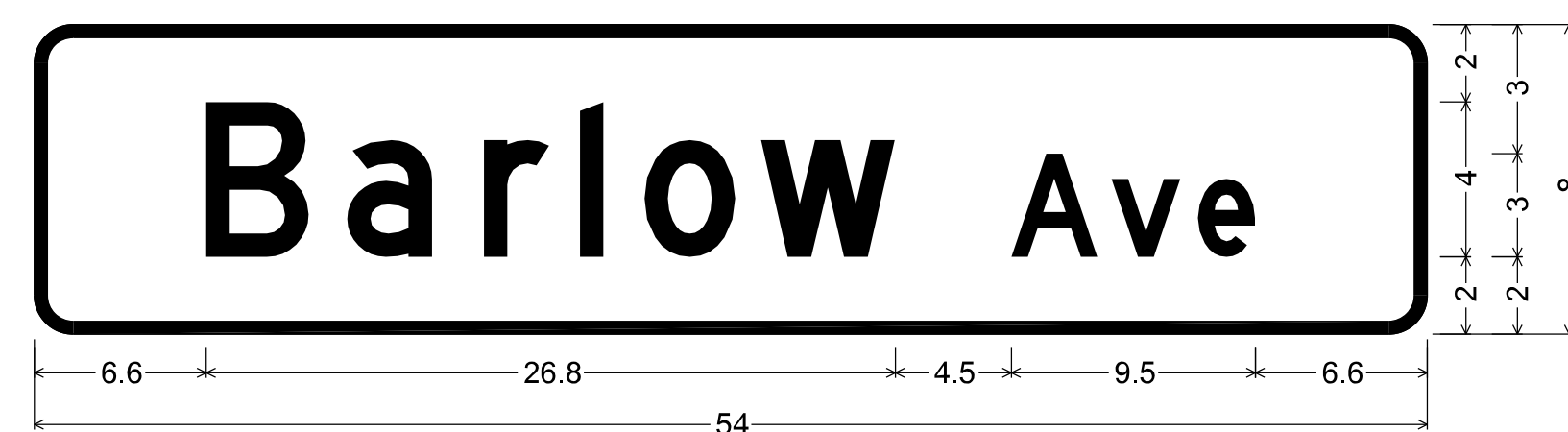
**TYPICAL SIDEWALK SECTION - UNION STREET STA. 109+34 - STA. 109+96**



**TYPICAL SIDEWALK SECTION - UNION STREET STA. 112+74 - STA. 113+79**



**TYPICAL SIDEWALK DRIVE CROSSING**



1.5" Radius, 0.5" Border, White on Green;  
[Barlow Ave] D;

**SIGN DETAIL CODE VD3-1**

SCALE 3/4" = 1'-0"

**DuBois  
& King**

**TYPICAL  
SECTIONS  
SHEET 2**

PROJECT NAME: UNION STREET SIDEWALK

PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452-tp-u.dgn

PROJECT LEADER: D. CONGER

DESIGNED BY: P. DAY

TYPICAL SECTIONS SHEET 2


PLOT DATE: 4/24/2019

DRAWN BY: P. DAY

CHECKED BY: D. CONGER

SHEET 5 OF 26



STATE OF VERMONT AGENCY OF TRANSPORTATION														QUANTITY SHEET 1											
SUMMARY OF ESTIMATED QUANTITIES														TOTALS		DESCRIPTIONS						DETAILED SUMMARY OF QUANTITIES			
														ROADWAY	EROSION CONTROL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER		ROUND	QUANTITIES	UNIT	ITEMS
														1		1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	--				
														710		710		CY	COMMON EXCAVATION	203.15	4.53				
														1		1		CY	SOLID ROCK EXCAVATION	203.16	EST				
														15		15		CY	EARTH BORROW	203.30	6.82				
														850		850		CY	TRENCH EXCAVATION OF EARTH	204.20	10				
														725		725		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	4.39				
														30		30		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10					
														400		400		CY	SUBBASE OF GRAVEL	301.15	2.98				
														7		7		CWT	EMULSIFIED ASPHALT	404.65	0.89				
														180		180		TON	BITUMINOUS CONCRETE PAVEMENT	406.25	2				
														310		310		LB	REINFORCING STEEL, LEVEL III	507.13	2.71				
														2		2		CY	CONCRETE, CLASS B	541.25	0.33				
														640		640		LF	18" CPEP	601.0915	5				
														5		5		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20	--				
														2		2		EACH	PRECAST REINFORCED CONCRETE PIPE DI WITH CAST IRON GRATE	604.25	--				
														300		300		HR	POWER BROOM RENTAL, TYPE II	608.31	--				
														5		5		MGAL	DUST CONTROL WITH WATER	609.10	EST				
														6		6		CY	STONE FILL, TYPE I	613.10	0.81				
														550		550		LF	VERTICAL GRANITE CURB	616.21	4				
														330		330		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	618.10	3				
														55		55		SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	5				
														50		50		SF	DETECTABLE WARNING SURFACE	618.30	--				
														1500		1500		HR	FLAGGERS	630.15	--				
														1		1		LS	MOBILIZATION/DEMOBILIZATION	635.11	EST.				
														1		1		LS	TRAFFIC CONTROL	641.10	EST.				
														40		40		LF	DURABLE CROSSWALK MARKING, EPOXY PAINT	646.503	--				
															10	10		SY	GEOTEXTILE UNDER STONE FILL	649.31	1.47				
															30	30		LB	SEED	651.15	2				
															190	190		LB	FERTILIZER	651.18	15				
															1	1		TON	AGRICULTURAL LIMESTONE	651.20	0.3				
															200	200		CY	TOPSOIL	651.35	11.78				
															1	1		LS	EPSC PLAN	653.01	--				
															60	60		HR	MONITORING EPSC PLAN	653.02	EST.				
															1	1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03	--				
															1	1		TON	HAY MULCH	653.10	0.3				
															4.5	4.5		CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25	1.5				
															7	7		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	--				
															170	170		LF	SILT FENCE, TYPE II	653.476	10				
															3	3		LS	TREE PROTECTION	656.85	--				
														12		12		SF	TRAFFIC SIGNS, TYPE A	675.20	0.44				
																		PROJECT NAME: UNION STREET SIDEWALK PROJECT NUMBER: STP EH 05 (4)			FILE NAME: 619452.qty.dgn PROJECT LEADER: D. CONGER DESIGNED BY: P. DAY QUANTITY SHEET I		PLOT DATE: 4/24/2019 DRAWN BY: P. DAY CHECKED BY: D. CONGER SHEET 6 OF 26		
																					QUANTITY SHEET 1				



# QUANTITY SHEET 2

[illegible]



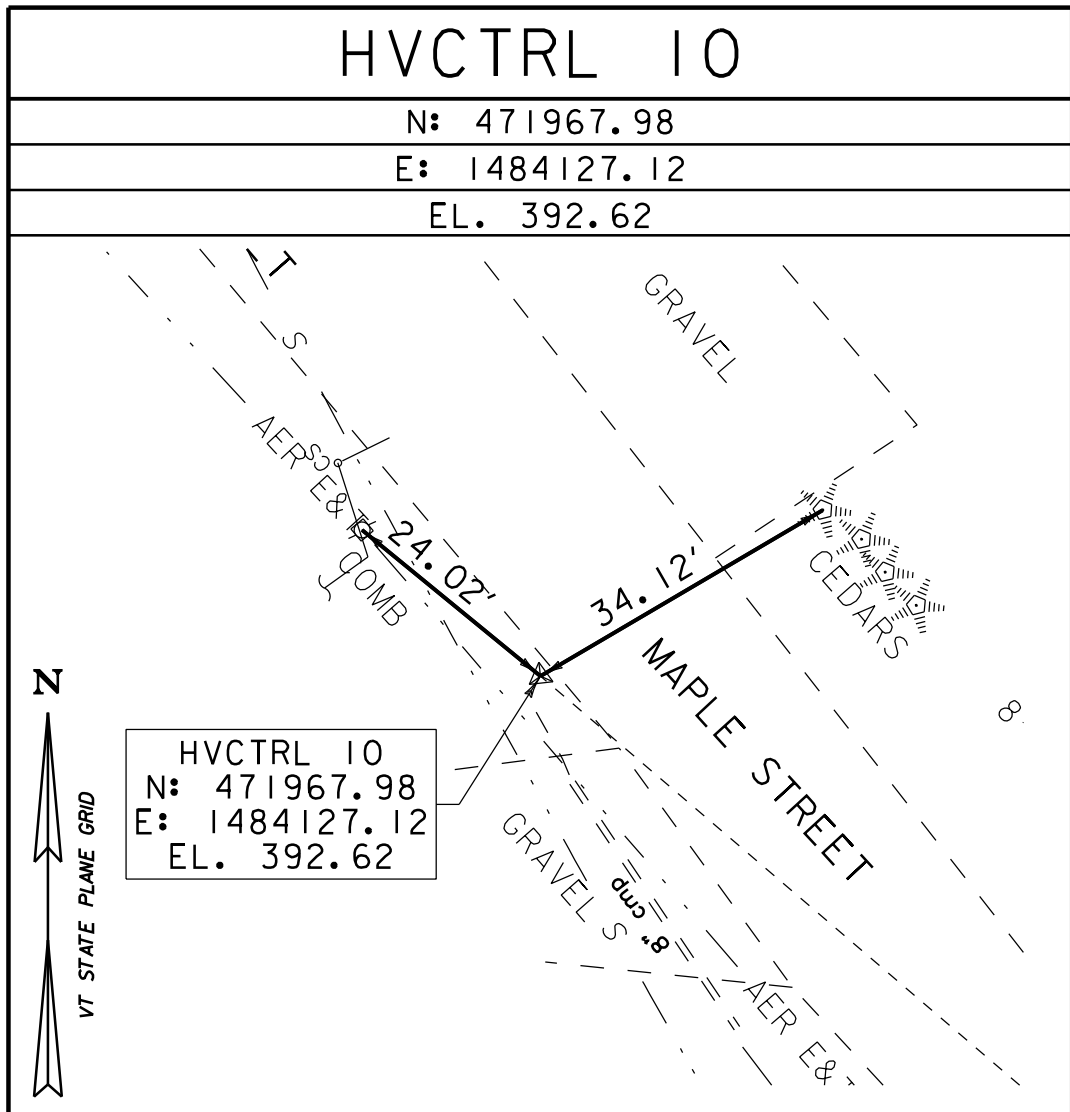
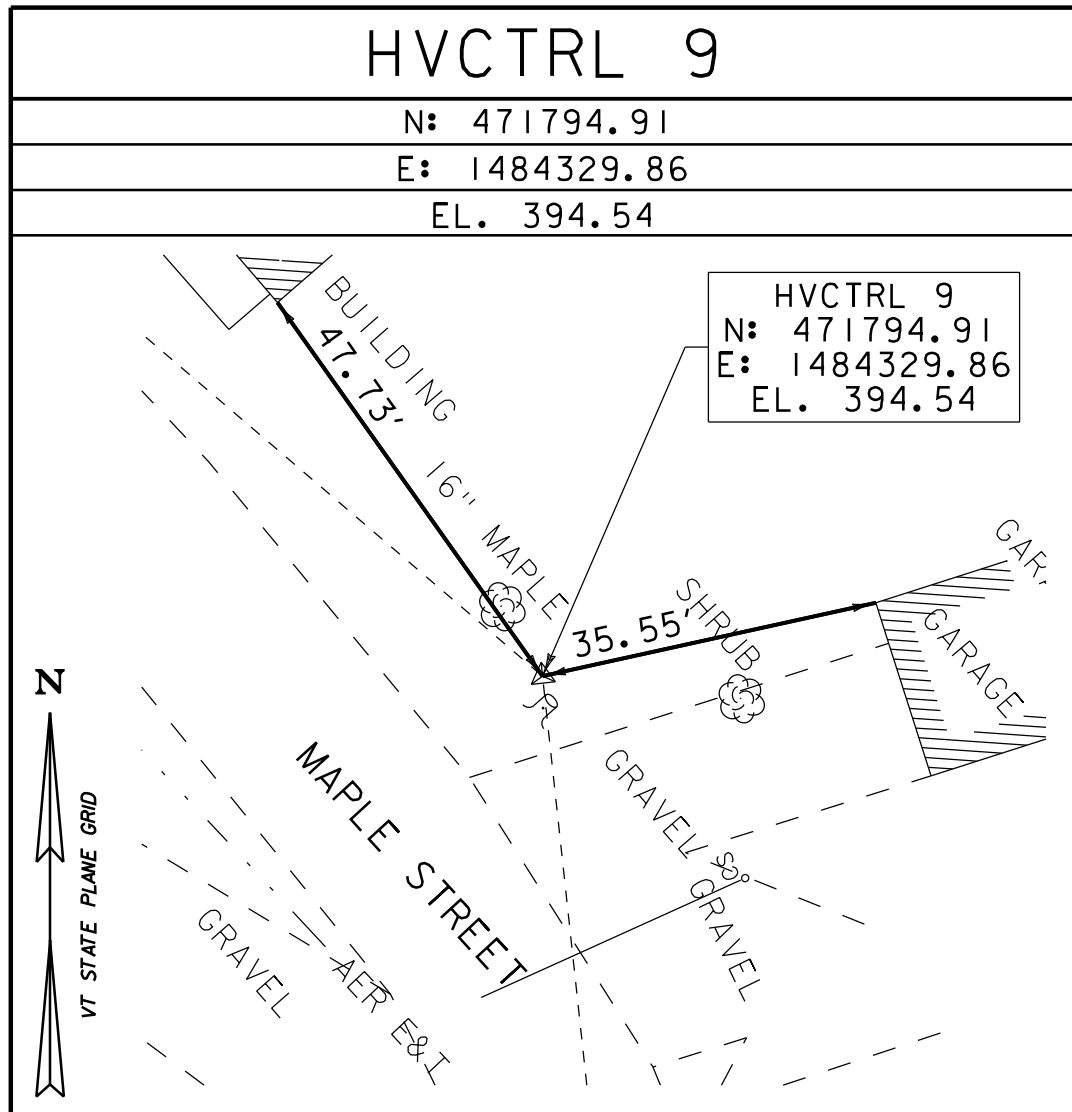
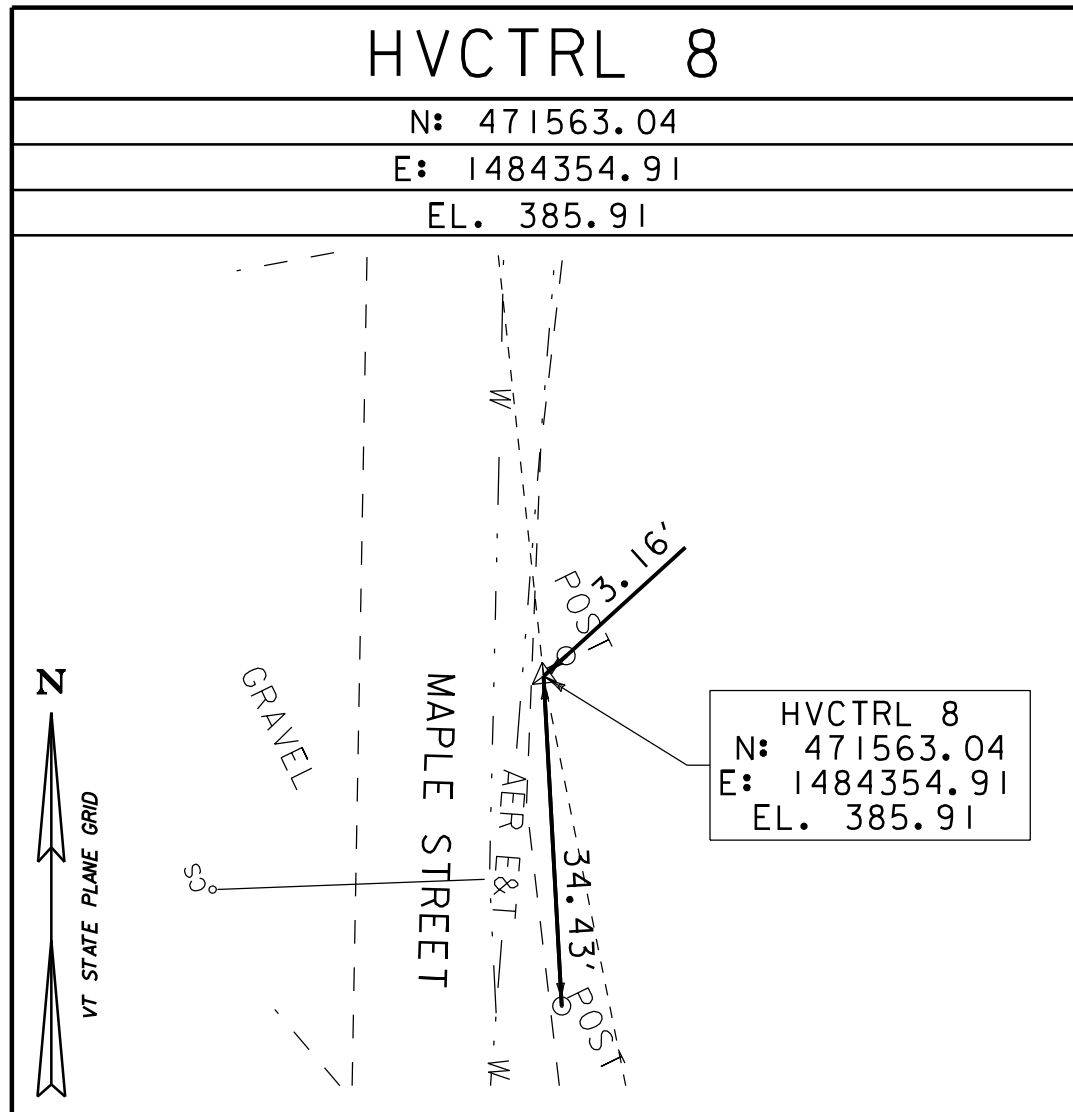
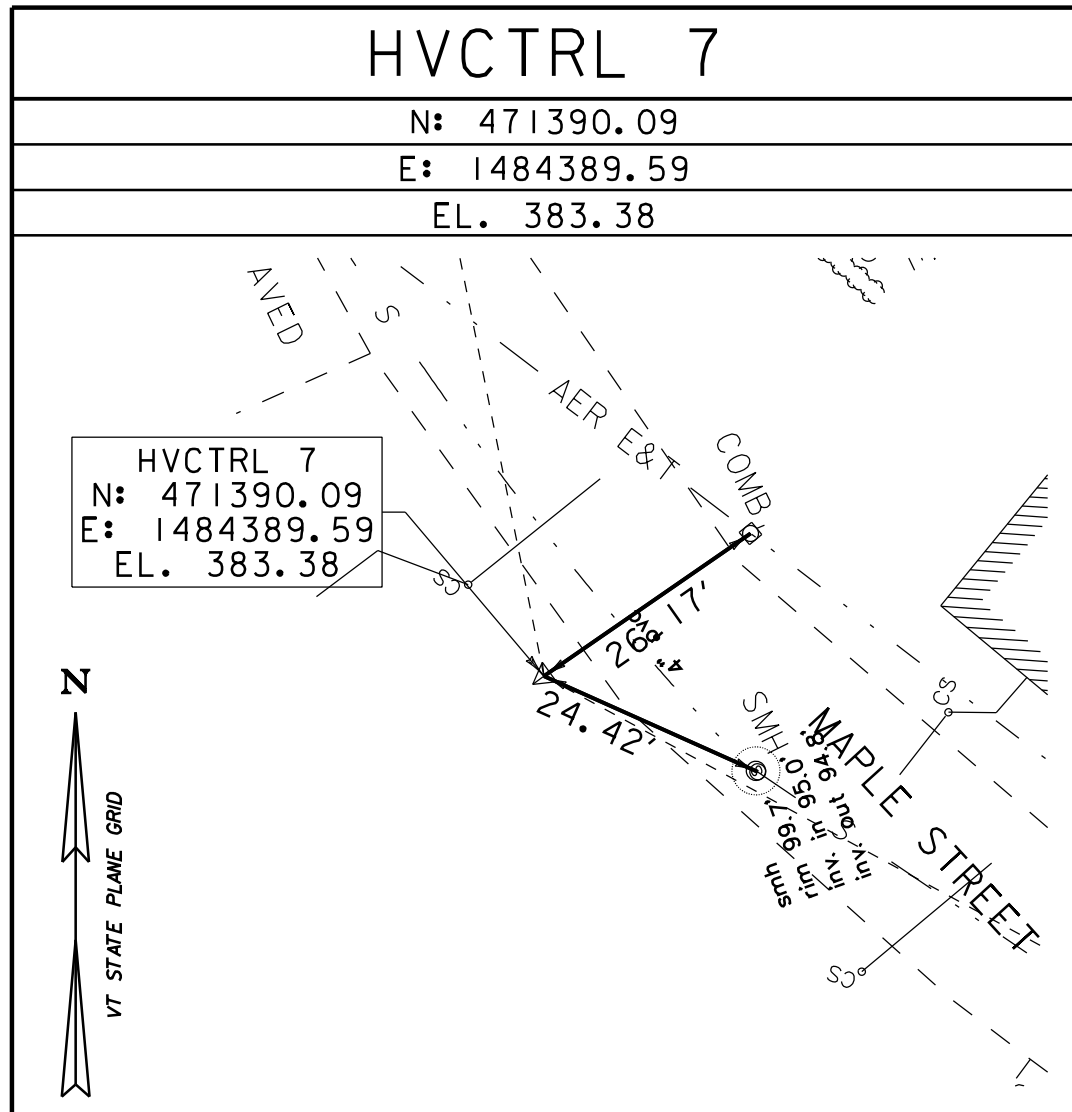
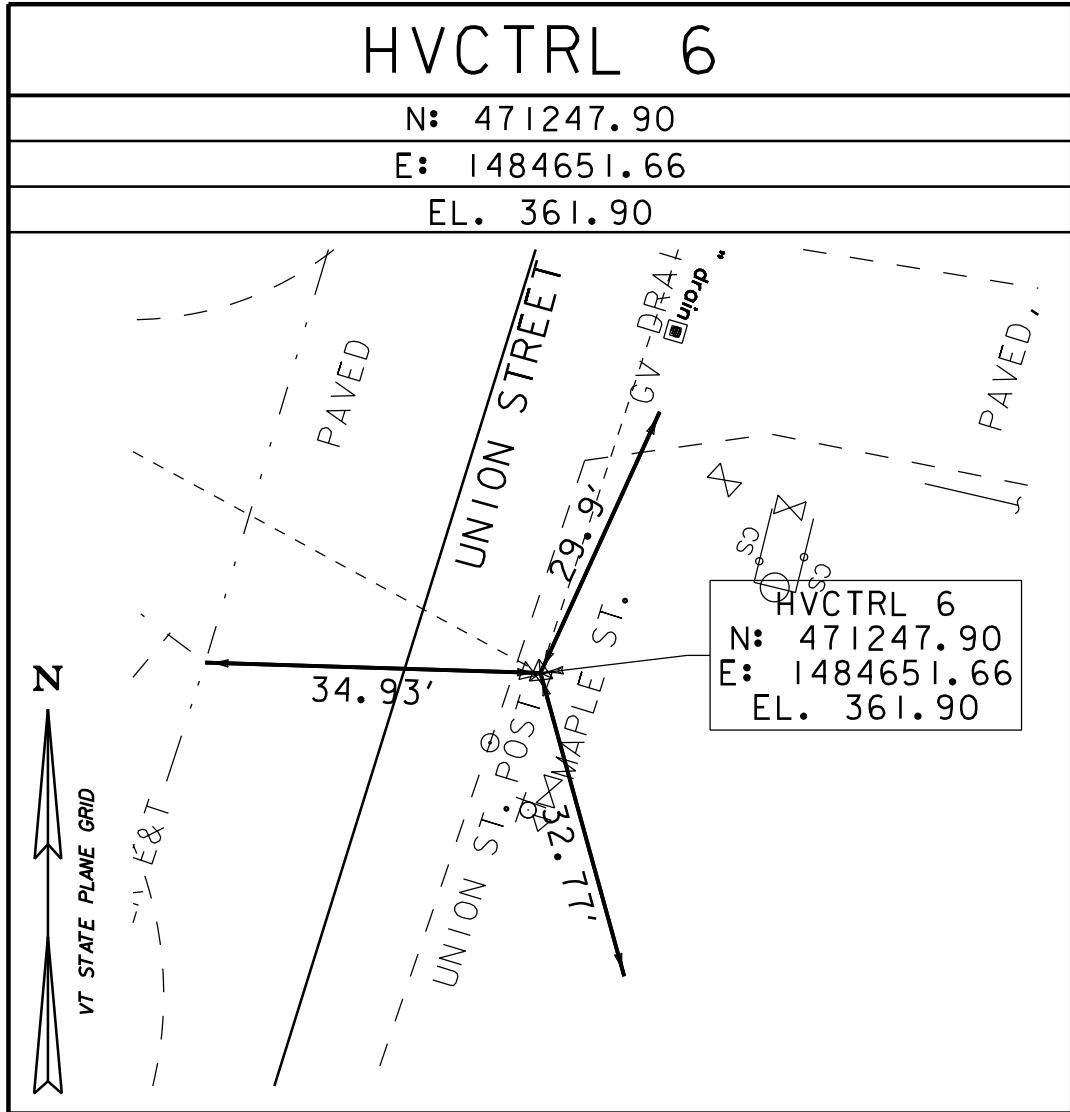
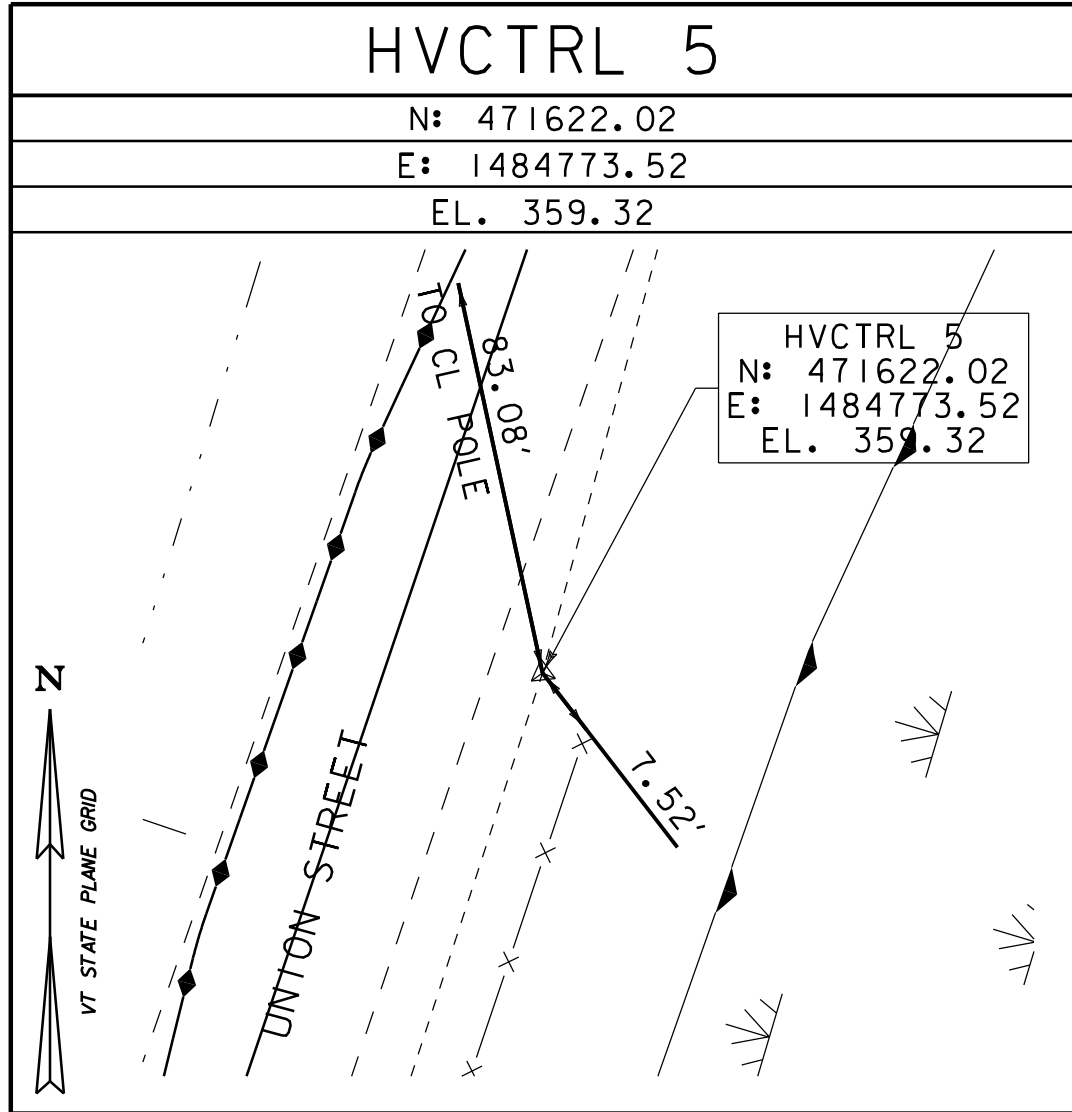
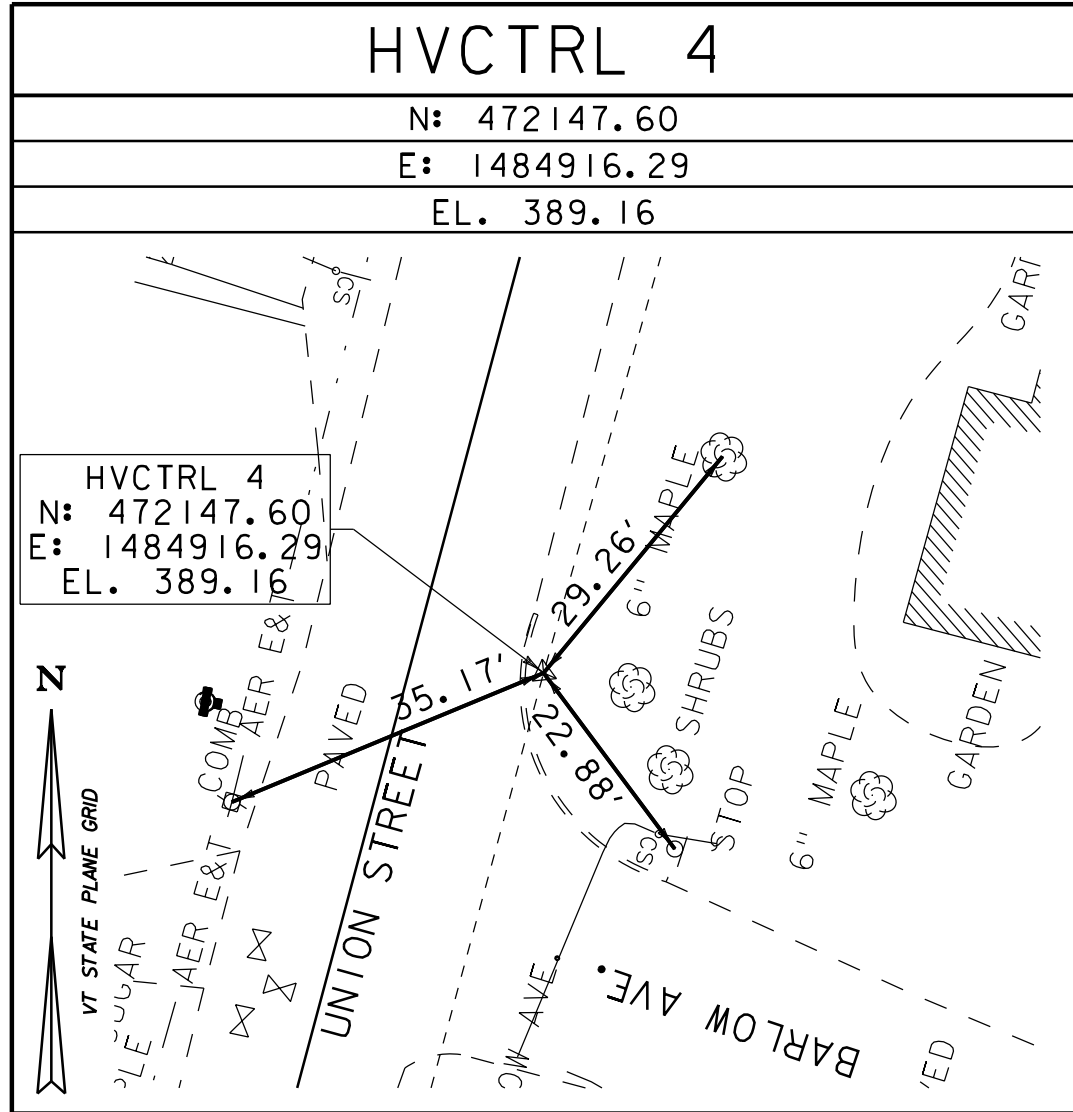
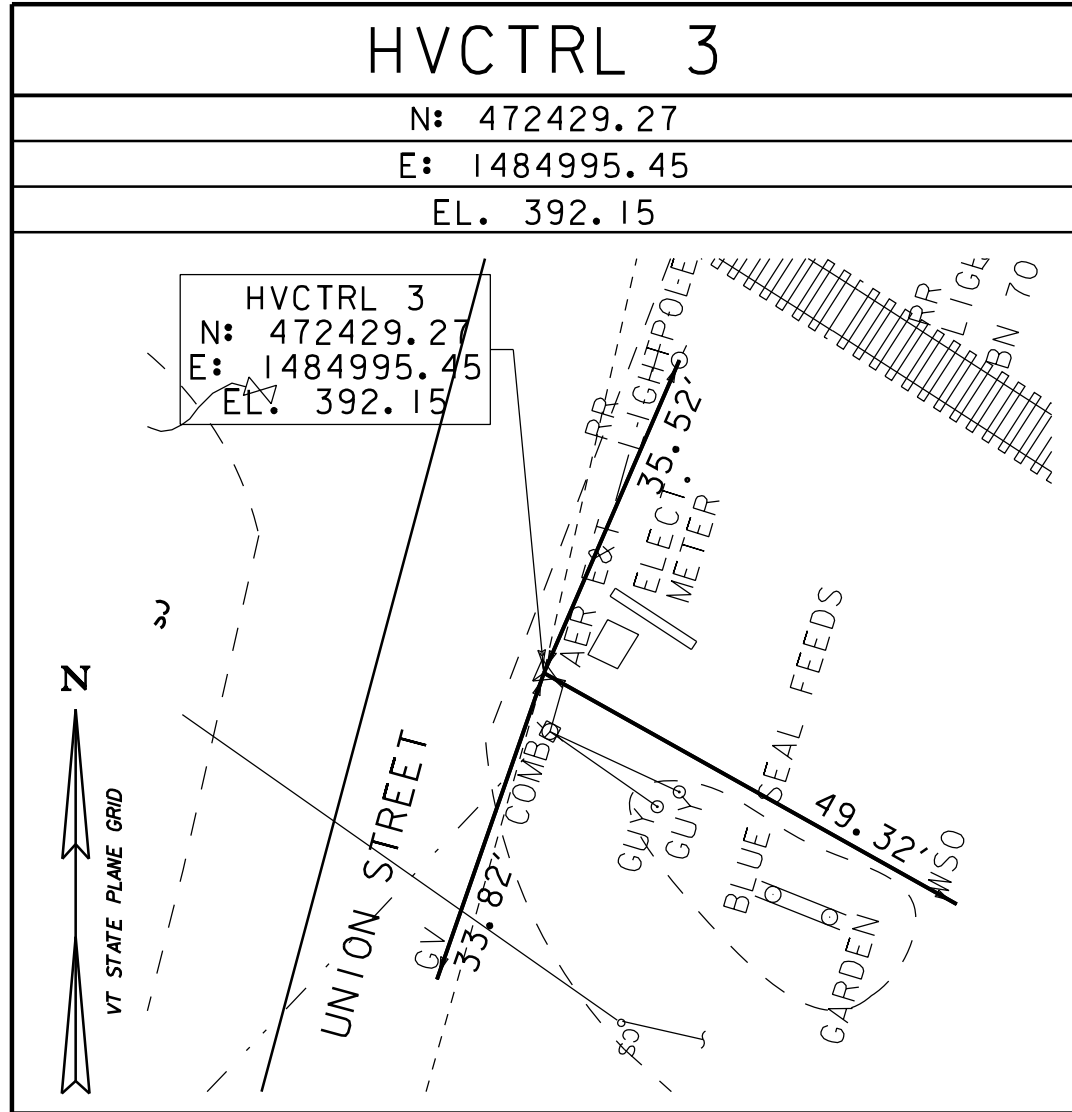
I:\A\19452 - Brandon Union Maple Sidewalk.dgn\\Union Street\619452-tie.dgn

TRAVERSE TIES

POINT COORDINATES

Point Type	Station	MAPLE STREET	
		Northing (Y)	Easting (X)
POB	0+00.00	472207.54	1483922.57
B.P.	2+08.67	472130.91	1483999.60
PC	2+26.53	472118.30	1484012.28
PI	2+75.78	472083.57	1484047.19
PT	3+24.95	472045.57	1484078.52
PC	4+63.49	471938.68	1484166.66
PI	5+10.62	471902.32	1484196.65
PT	5+57.68	471868.94	1484229.92
PC	6+49.00	471804.26	1484294.39
PI	7+32.29	471745.27	1484353.19
PT	8+05.99	471662.05	1484349.64
PC	9+11.31	471556.83	1484345.16
PI	10+13.19	471455.04	1484340.83
PT	11+02.13	471385.90	1484415.65
PI	11+89.38	471326.68	1484479.73
PT	12+75.31	471289.16	1484558.50
POE	13+91.48	471239.20	1484663.39

Point Type	Station	UNION STREET	
		Northing (Y)	Easting (X)
POB	100+00.00	471124.38	1484598.77
PC	103+71.91	471479.35	1484709.74
PI	104+20.17	471525.41	1484724.14
PT	104+68.43	471571.11	1484739.65
PC	107+04.49	471794.65	1484815.51
PI	107+60.77	471847.95	1484833.60
PT	108+16.91	471903.08	1484844.90
PC	109+23.94	472007.93	1484866.40
PI	109+50.85	472034.30	1484871.81
PT	109+77.75	472060.30	1484878.78
E.P.	115+19.64	472583.69	1485019.14
POE	116+27.61	472687.97	1485047.11



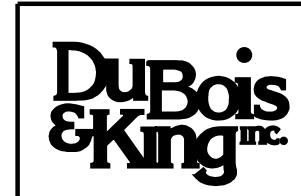
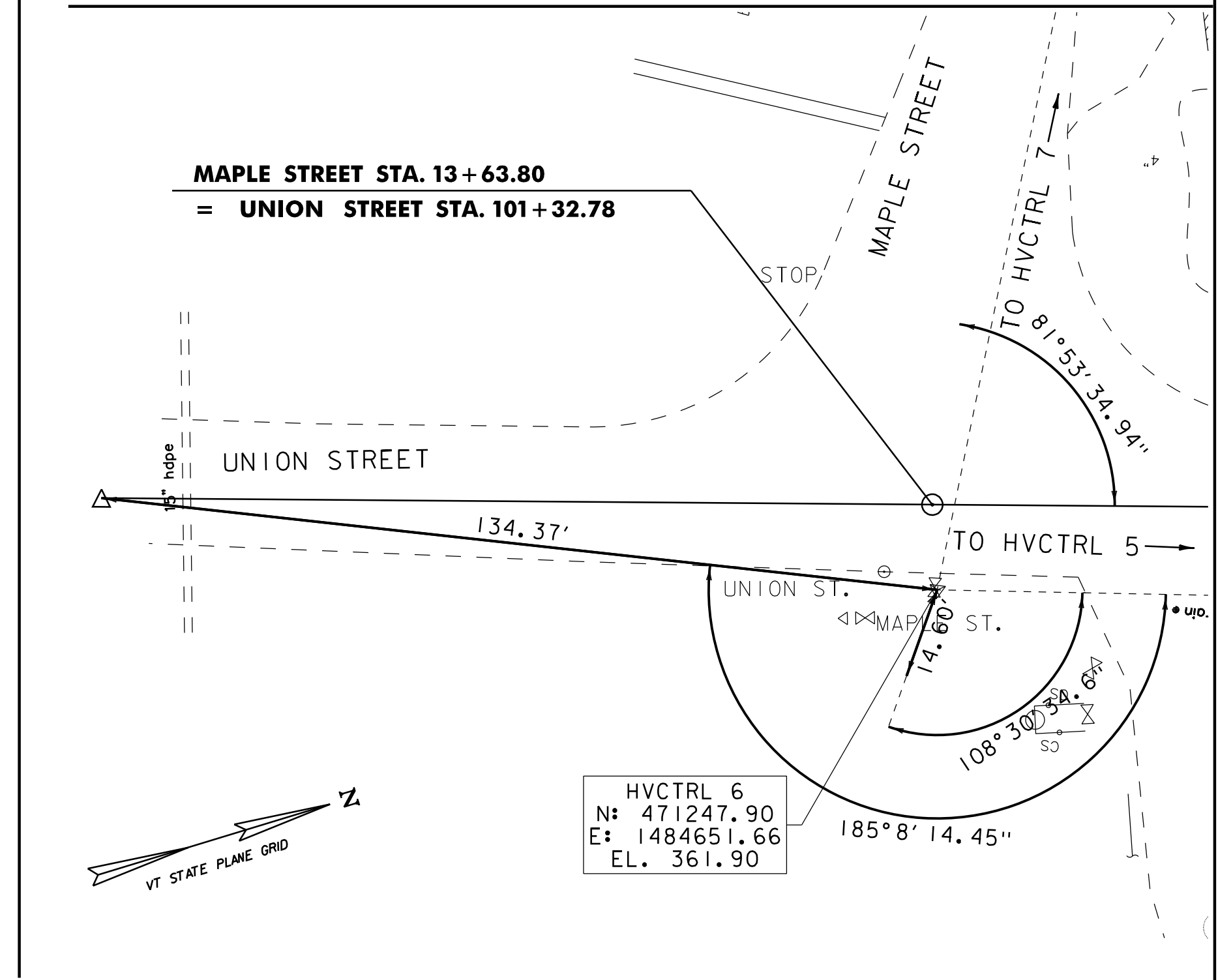
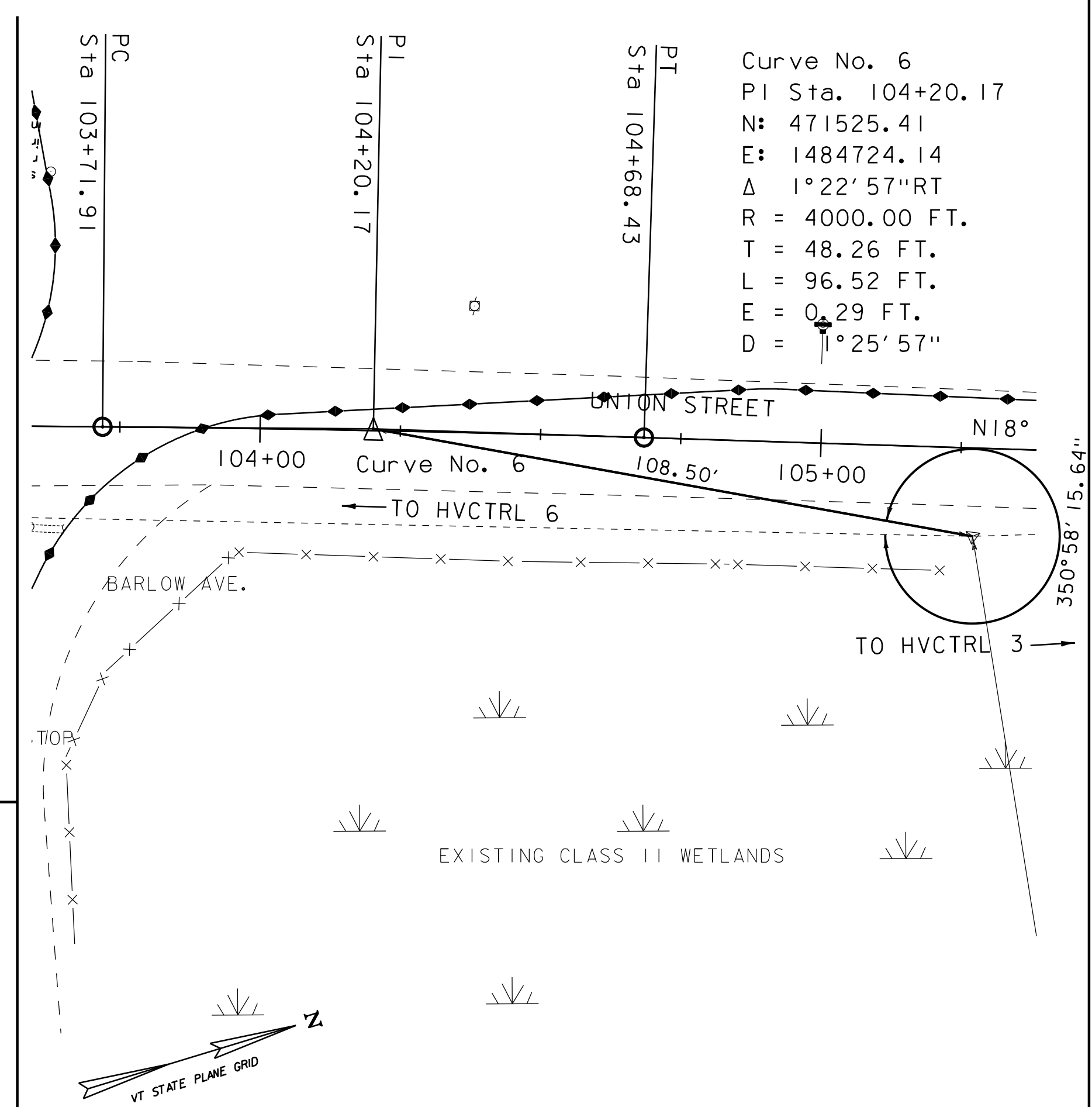
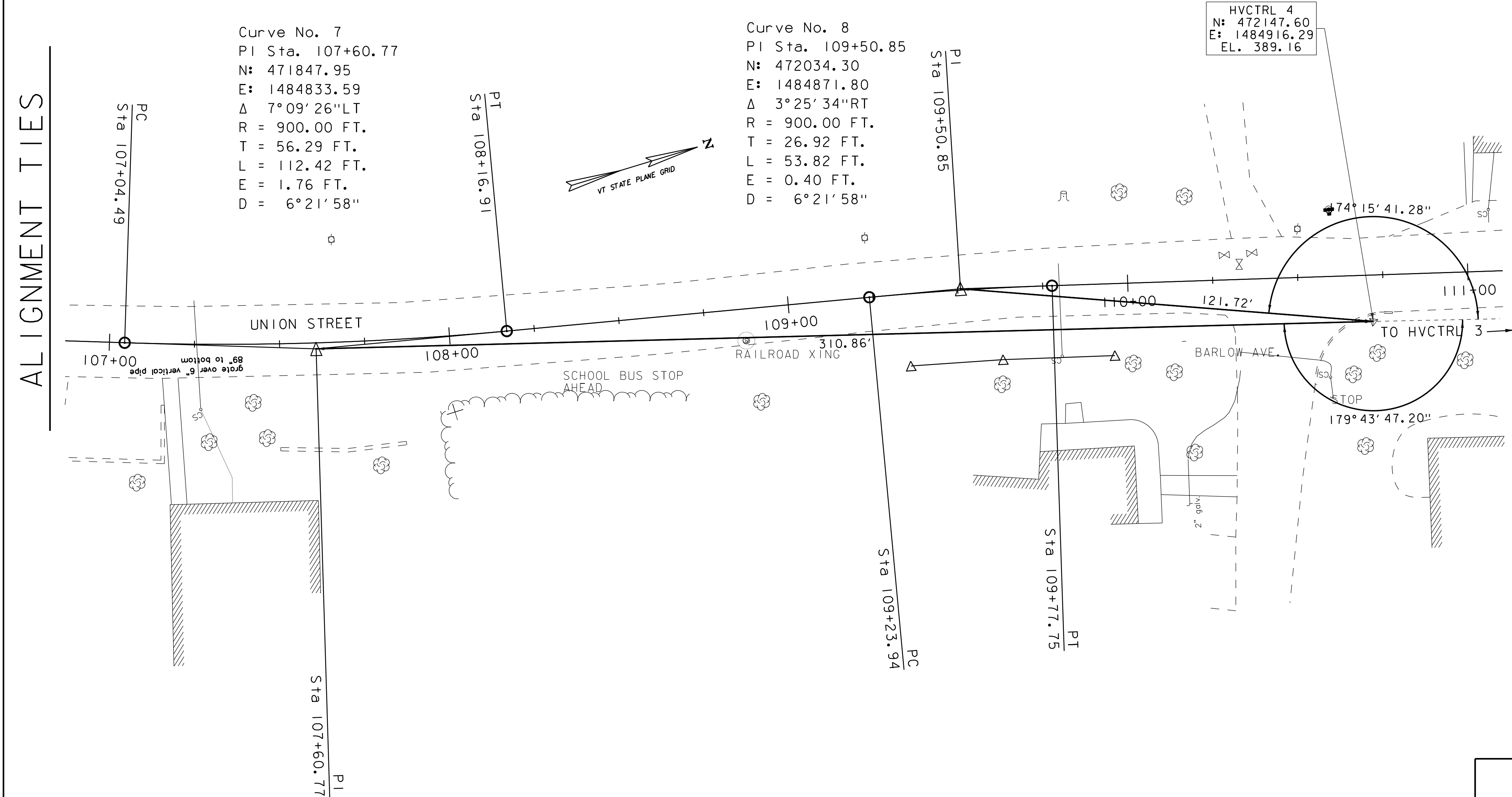
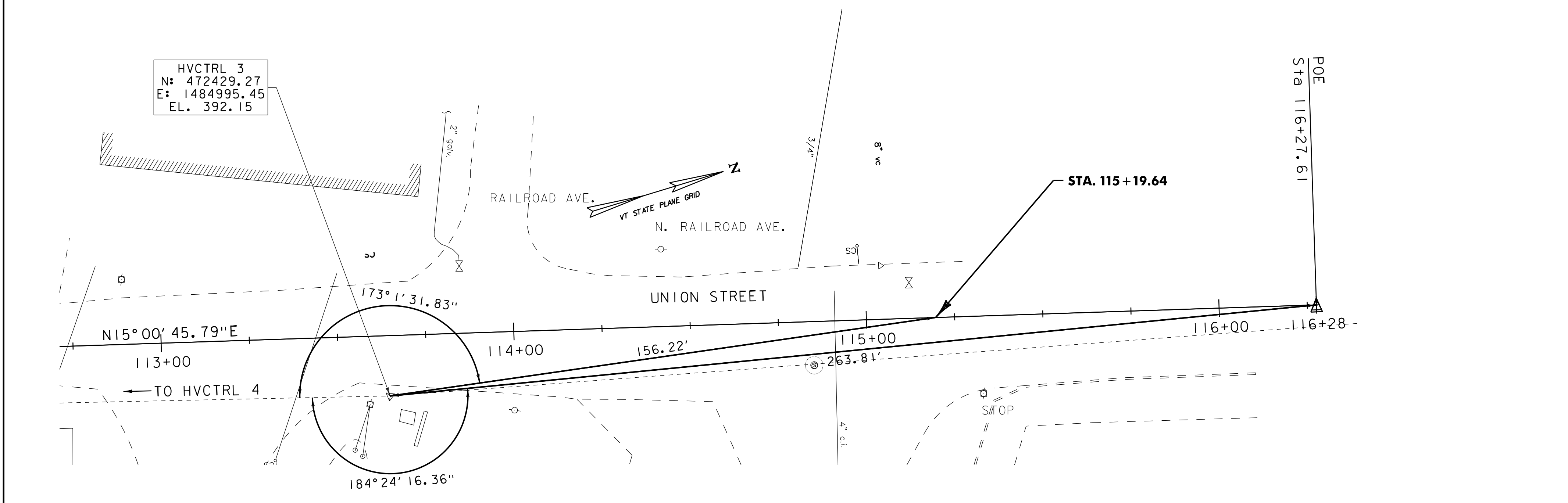
TIE SHEET

PROJECT NAME: UNION STREET SIDEWALK  
PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452-tie.dgn  
PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
TIE SHEET 1

PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 8 OF 26

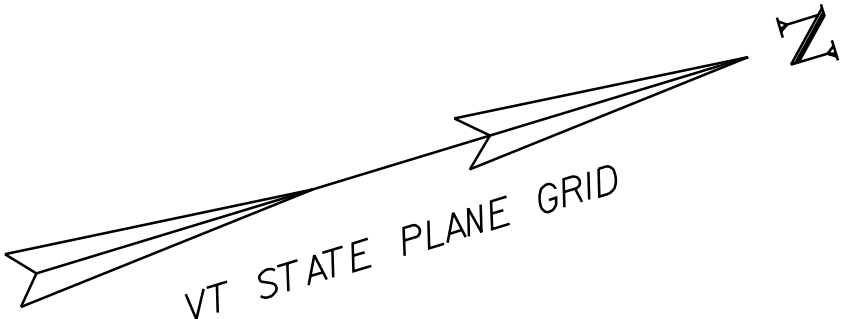




TIE SHEET 2

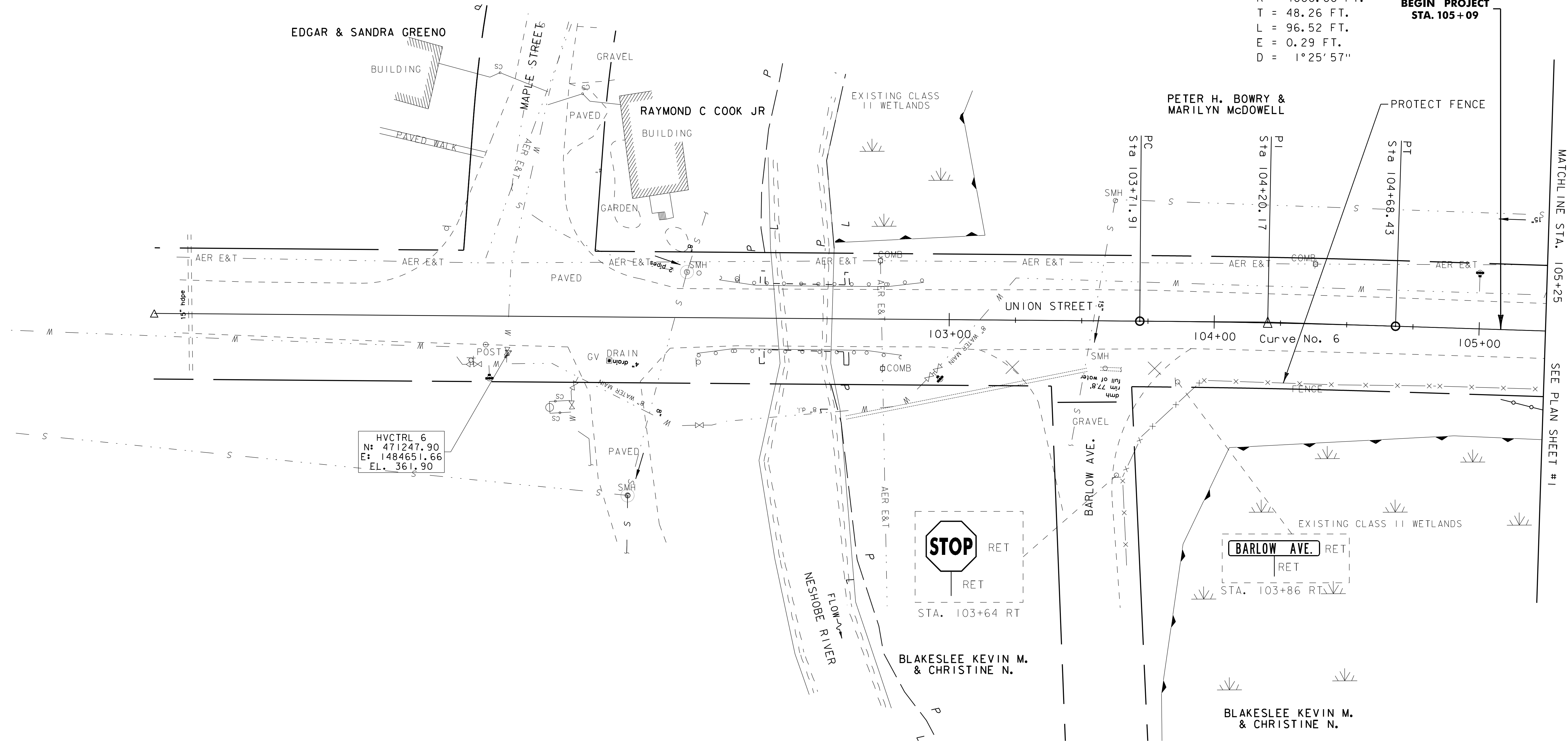
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PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452_tie.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
TIE SHEET 2	SHEET 9 OF 26





Curve No. 6  
PI Sta. 104+20.17  
N: 471525.41  
E: 1484724.14  
 $\Delta$  1°22'57"RT  
R = 4000.00 FT.  
T = 48.26 FT.  
L = 96.52 FT.  
E = 0.29 FT.  
D = 1°25'57"

BEGIN PROJECT  
STA. 105+09



HVCTRL 6  
N: 471247.90  
E: 1484651.66  
EL. 361.90

STOP  
RET  
STA. 103+64 RT

BARLOW AVE.  
RET  
STA. 103+86 RT

BLAKESLEE KEVIN M.  
& CHRISTINE N.

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83

SIGN LEGEND  
R = REMOVE  
R&S = REMOVE & SALVAGE  
S = SALVAGE  
RET = RETAIN  
N = NEW  
B-B = BACK TO BACK

SCALE 1" = 20'-0"  
20 0 20  
PLOTED 4/24/2019



PLAN SHEET 1

PROJECT NAME: UNION STREET SIDEWALK	
PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452.bdr	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
PLAN SHEET 1	SHEET 10 OF 26



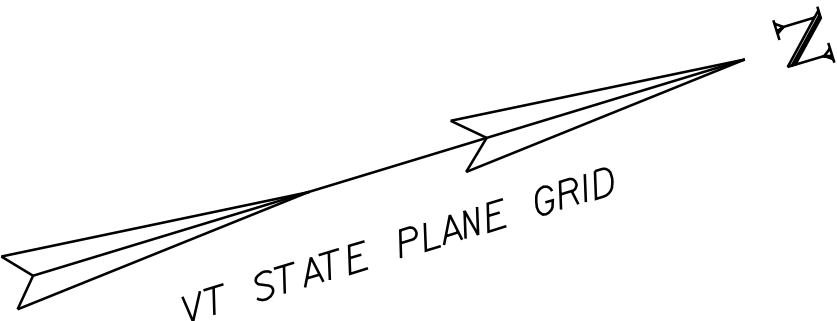
616.21 VERTICAL GRANITE CURB  
STA. 108+02 - STA. 110+29 RT  
STA. 110+61 - STA. 111+00 RT

618.30 DETECTABLE WARNING SURFACE  
STA. 106+89 RT  
STA. 110+29 RT  
STA. 110+67 RT

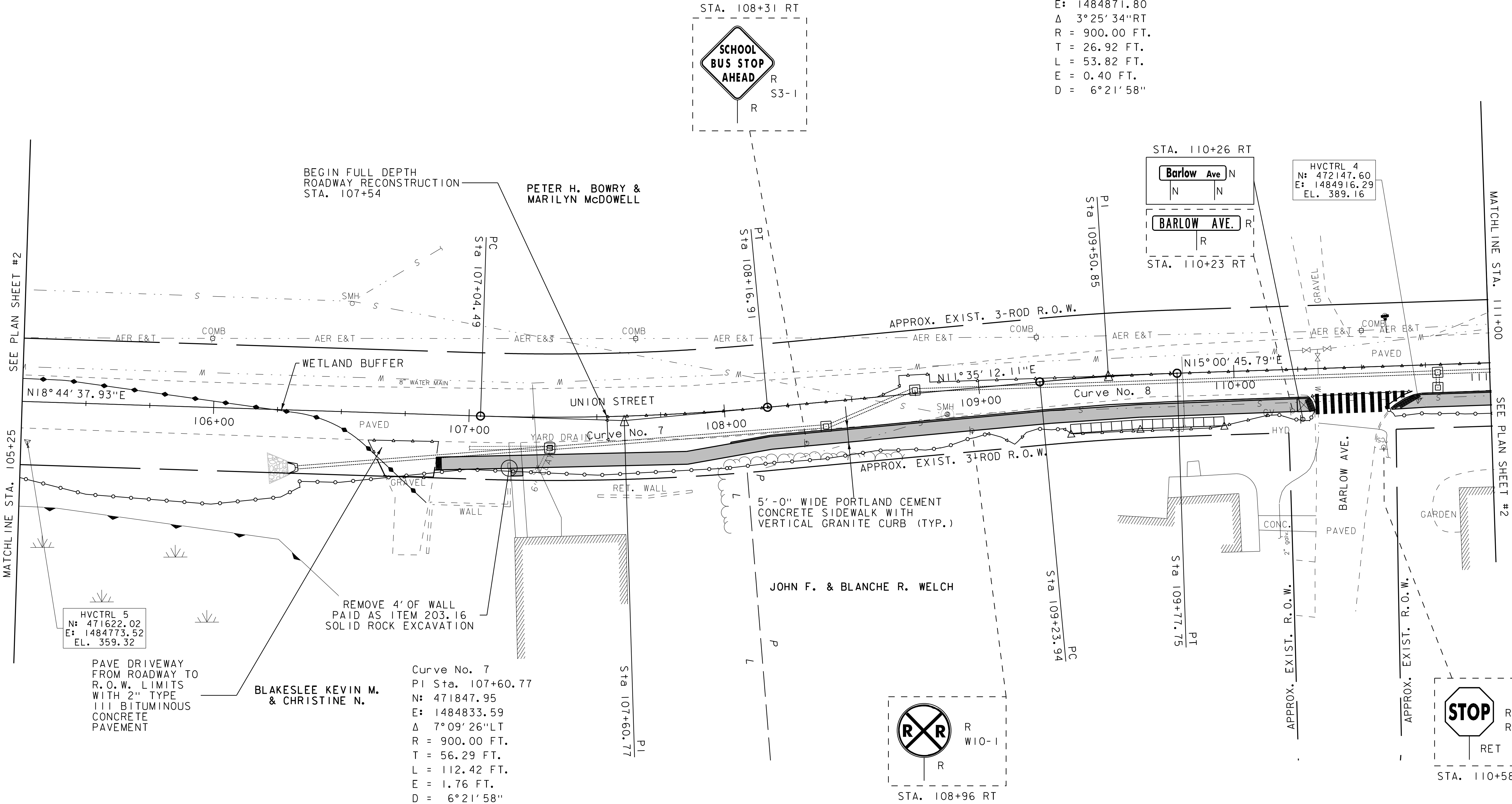
SIDEWALK RAMP TYPES  
STA. 110+29 RT TYPE I EXAMPLE I  
STA. 110+67 RT TYPE I EXAMPLE I

REMOVING SIGNS  
AS SHOWN - 3

UNIT BLOCK RETAINING WALL  
STA. 109+34 - STA. 109+96 RT



Curve No. 8  
PI Sta. 109+50.85  
N: 472034.30  
E: 1484871.80  
 $\Delta$  3°25'34"RT  
R = 900.00 FT.  
T = 26.92 FT.  
L = 53.82 FT.  
E = 0.40 FT.  
D = 6°21'58"



HVCTRL 5  
N: 471622.02  
E: 1484773.52  
EL. 359.32

PAVE DRIVEWAY  
FROM ROADWAY TO  
R.O.W. LIMITS  
WITH 2" TYPE  
III BITUMINOUS  
CONCRETE  
PAVEMENT

BLAKESLEE KEVIN M.  
& CHRISTINE N.

REMOVE 4' OF WALL  
PAID AS ITEM 203.16  
SOLID ROCK EXCAVATION

Curve No. 7  
PI Sta. 107+60.77  
N: 471847.95  
E: 1484833.59  
 $\Delta$  7°09'26"LT  
R = 900.00 FT.  
T = 56.29 FT.  
L = 112.42 FT.  
E = 1.76 FT.  
D = 6°21'58"

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83

SIGN LEGEND  
R = REMOVE  
R&S = REMOVE & SALVAGE  
S = SALVAGE  
RET = RETAIN  
N = NEW  
B-B = BACK TO BACK

SCALE 1" = 20'-0"  
20 0 20  
PLOTTED 4/24/2019

DuBois  
& King  
INC.

PLAN SHEET 2

PROJECT NAME: UNION STREET SIDEWALK  
PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452\_bdr  
PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
PLAN SHEET 2

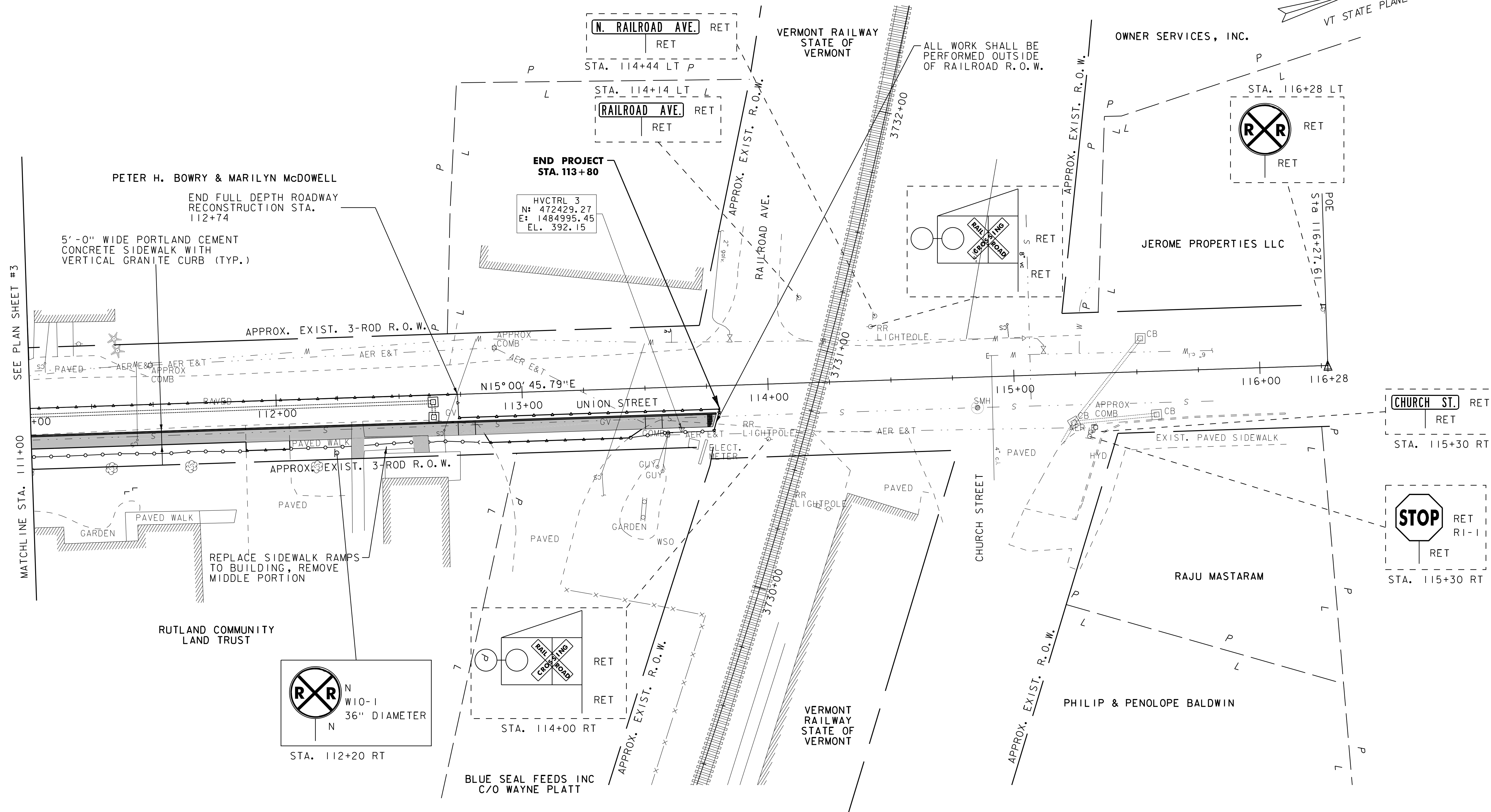
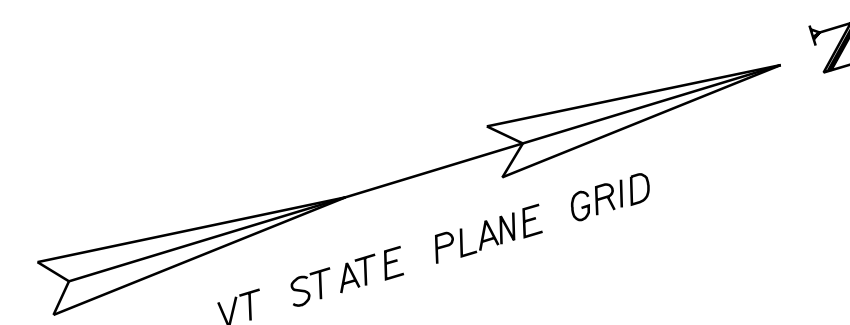
PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 11 OF 26



616.21 VERTICAL GRANITE CURB  
STA. 111+00 - STA. 113+79 RT

618.30 DETECTABLE WARNING SURFACE  
STA. 113+76 RT

TYPICAL SIDEWALK DRIVE CROSSING  
STA. 111+87 TO STA. 112+05 RT TYPE 2,  
STA. 112+81 TO STA. 113+59 RT TYPE 2,  
(COMMERCIAL) (8" THICK SIDEWALK)



b

I:\A\19452 - Brandon Union Maple Sch\k\gn\Union Street\619452.bdr.dgn

DATUM  
VERTICAL NAVD 88  
HORIZONTAL NAD 83

SIGN LEGEND  
R = REMOVE  
R&S = REMOVE & SALVAGE  
S = SALVAGE  
RET = RETAIN  
N = NEW  
B-B = BACK TO BACK

SCALE 1" = 20'-0"  
20 0 20  
PLOTTED 4/24/2019

DuBois  
& King  
INC

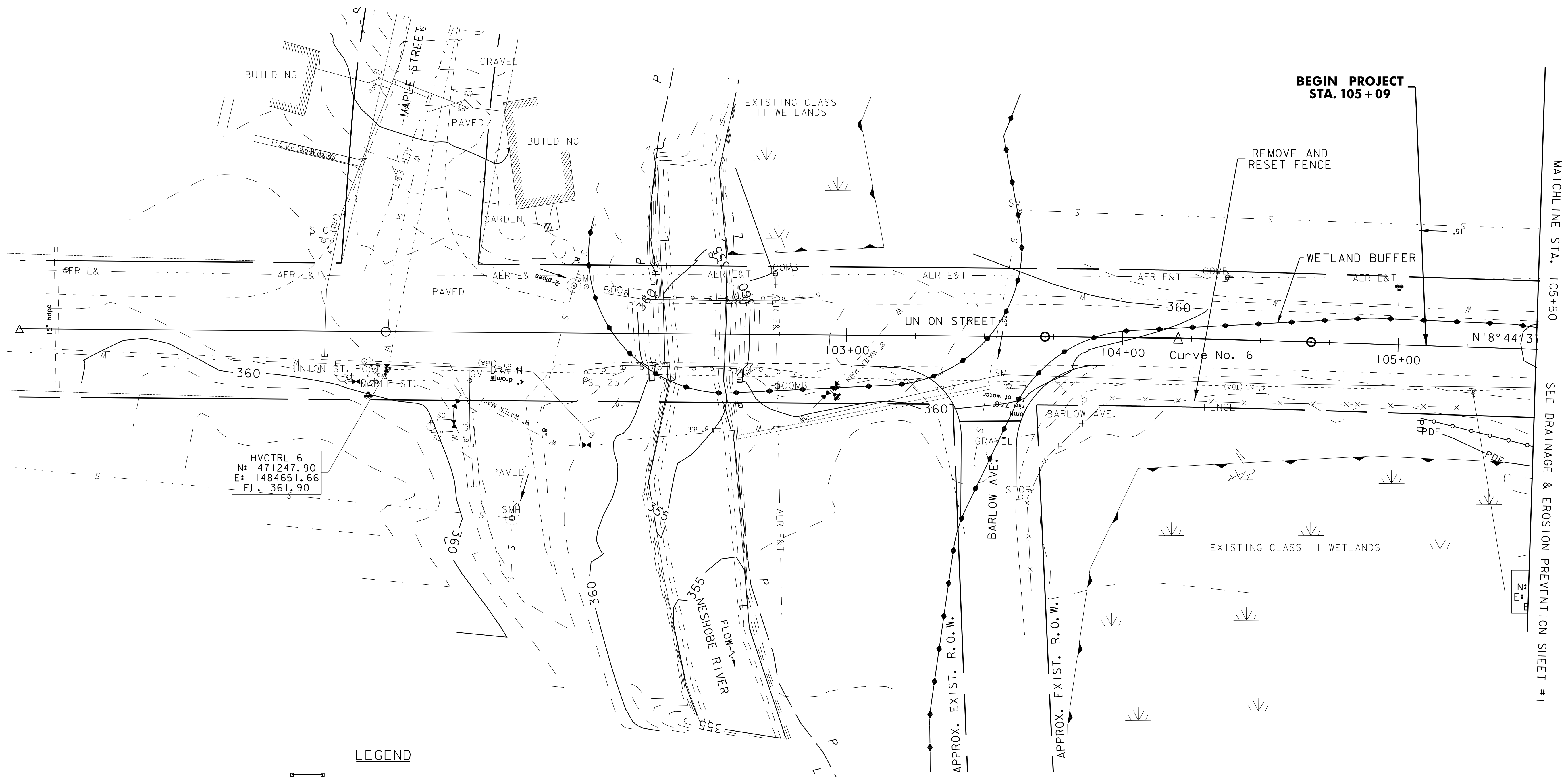
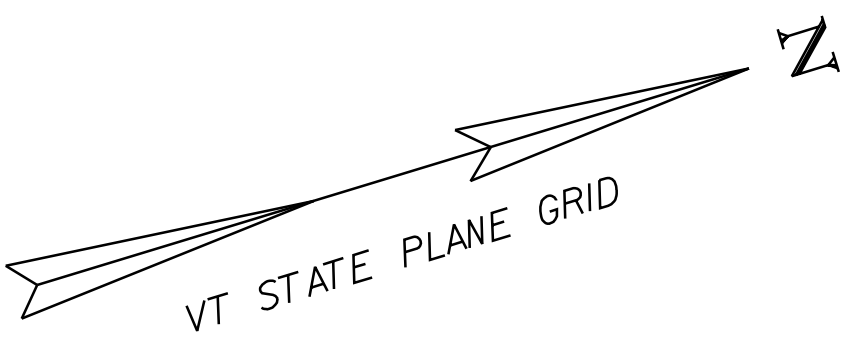
PLAN SHEET 3

PROJECT NAME: UNION STREET SIDEWALK  
PROJECT NUMBER: STEP BETH 05 (4)

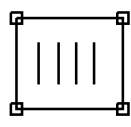
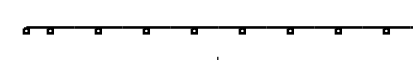


FILE NAME: 619452.bdr  
PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
PLAN SHEET 3

PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 12 OF 26

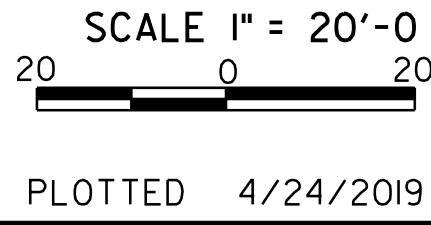




LEGEND

-  INLET PROTECTION, TYPE I
-  SILT FENCE
-  WETLAND
-  WETLAND BORDER

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83

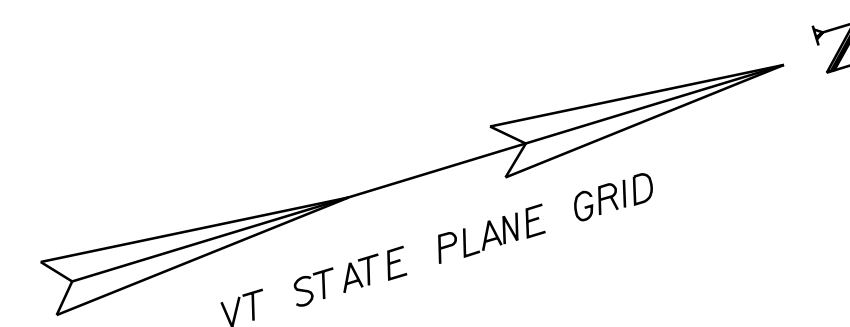


**DRAINAGE AND EROSION PREVENTION SHEET 1**

PROJECT NAME: UNION STREET SW.	
PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452-EPSC-Plans	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
DRAINAGE & EROSION PREVENTION SHT 1 SHEET 13 OF 26	

I:\4\19452 - Brandon Union Maple Sch\4.dgn\1-Union Street\619452-EPSC-Plans.dgn





I:\A\19452 - Brandon Union Maple Schwab\dwg\Union Street\1619452-EPSC-Plans.dgn

MATCHLINE STA. 105+50  
SEE DRAINAGE & EROSION PREVENTION SHEET #2

MATCHLINE STA. 111+00  
SEE DRAINAGE & EROSION PREVENTION SHEET #2

HVCTRL 5  
N: 471622.02  
E: 1484773.52  
L: 359.32

STA. 106+33.14 RT 22.44'

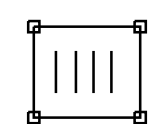
18" CPEP (99' LONG)  
INV. OUT = 358.00'  
INSTALL PIPE END SECTION SEE  
STD D-16 FOR DETAIL  
INSTALL TYPE I STONE FILL  
APRON 4'-12' X 8'

② STA. 107+31.58 RT 12.10'  
REMOVE EXISTING YARD DRAIN  
INSTALL PRECAST REINFORCED  
CONC. CATCH BASIN WITH  
CAST IRON GRATE, TYPE D  
RIM EL. = 364.08'  
18" CPEP (107' LONG)  
INV. IN. = 360.58'  
18" CPEP (99' LONG)  
INV. OUT = 360.08'

INSTALL TYPE I  
STONE FILL APRON  
4'-12' X 8'

REMOVE 4'  
OF WALL

#### LEGEND



INLET PROTECTION, TYPE I



WETLAND



WETLAND BORDER

DATUM  
VERTICAL      NAVD 88  
HORIZONTAL    NAD 83

SCALE 1" = 20'-0"

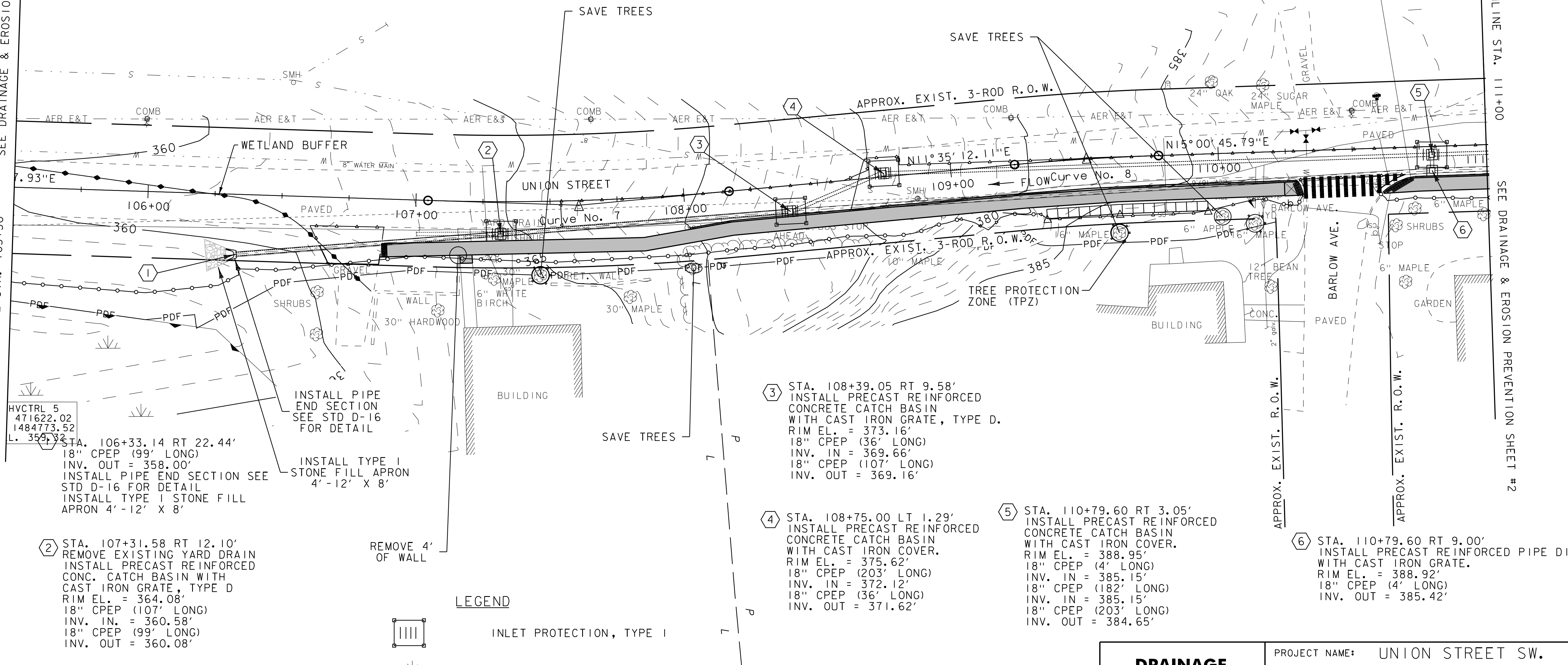
PLOTTED 4/24/2019

DuBois  
& King  
INC.

### DRAINAGE & EROSION PREVENTION SHEET 2

PROJECT NAME: UNION STREET SW.  
PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452-EPSC-Plans.dgn      PLOT DATE: 4/24/2019  
PROJECT LEADER: D. CONGER      DRAWN BY: P. DAY  
DESIGNED BY: P. DAY      CHECKED BY: D. CONGER  
DRAINAGE & EROSION PREVENTION SHT 2 SHEET 14 OF 26





I:\A\19452 - Brandon Union Maple Sch\A.dgn\\Union Street\619452-EPSC-Plans.dgn

SEE DRAINAGE & EROSION PREVENTION SHEET #3

MATCHLINE STA. 111+00

BUILDING

RED SPRUCES  
PAVED  
AER ME  
AER E&T  
APPROX  
COMB

6" MAPLE

PAVED WALK

GARDEN

BUILDING

REPLACE SIDEWALK RAMPS  
TO BUILDING, REMOVE  
MIDDLE PORTION

APPROX. EXIST. 3-ROD R.O.W.

APPROX. EXIST. 3-ROD R.O.W.

7 STA. 112+63.89 RT 2.84'  
INSTALL PRECAST REINFORCED CATCH  
BASIN WITH CAST IRON COVER.  
RIM EL. = 390.92'  
18" CPEP (4' LONG)  
INV. IN= 387.05'  
18" CPEP (182' LONG)  
INV. OUT = 386.55'

8 STA. 112+63.89 RT 9.00'  
INSTALL PRECAST REINFORCED  
PIPE DI WITH CAST IRON GRATE.  
RIM EL. = 390.75'  
18" CPEP (4' LONG)  
INV. OUT = 387.25'

END PROJECT  
STA. 113+80

HVCTRL 3  
N: 472429.27  
E: 1484995.45  
EL. 392.15

BUILDING

APPROX. EXIST. R.O.W.

RAILROAD AVE.

RAILROAD AVE.

RAILROAD AVE.

RR LIGHTPOLE.

RR LIGHTPOLE.

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ALL WORK SHALL BE  
PERFORMED OUTSIDE  
OF RAILROAD R.O.W.

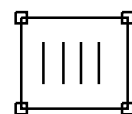
APPROX. EXIST. R.O.W.

CHURCH STREET

APPROX. EXIST. R.O.W.

VT STATE PLANE GRID

# LEGEND



INLET PROTECTION, TYPE 1

SCALE 1" = 20'-0"

20 0 20

PLOTTED 4/24/2019

DuBois  
& King

## DRAINAGE & EROSION PREVENTION SHEET 3

PROJECT NAME: UNION STREET SW.

PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452-EPSC-Plans.dgn PLOT DATE: 4/24/2019

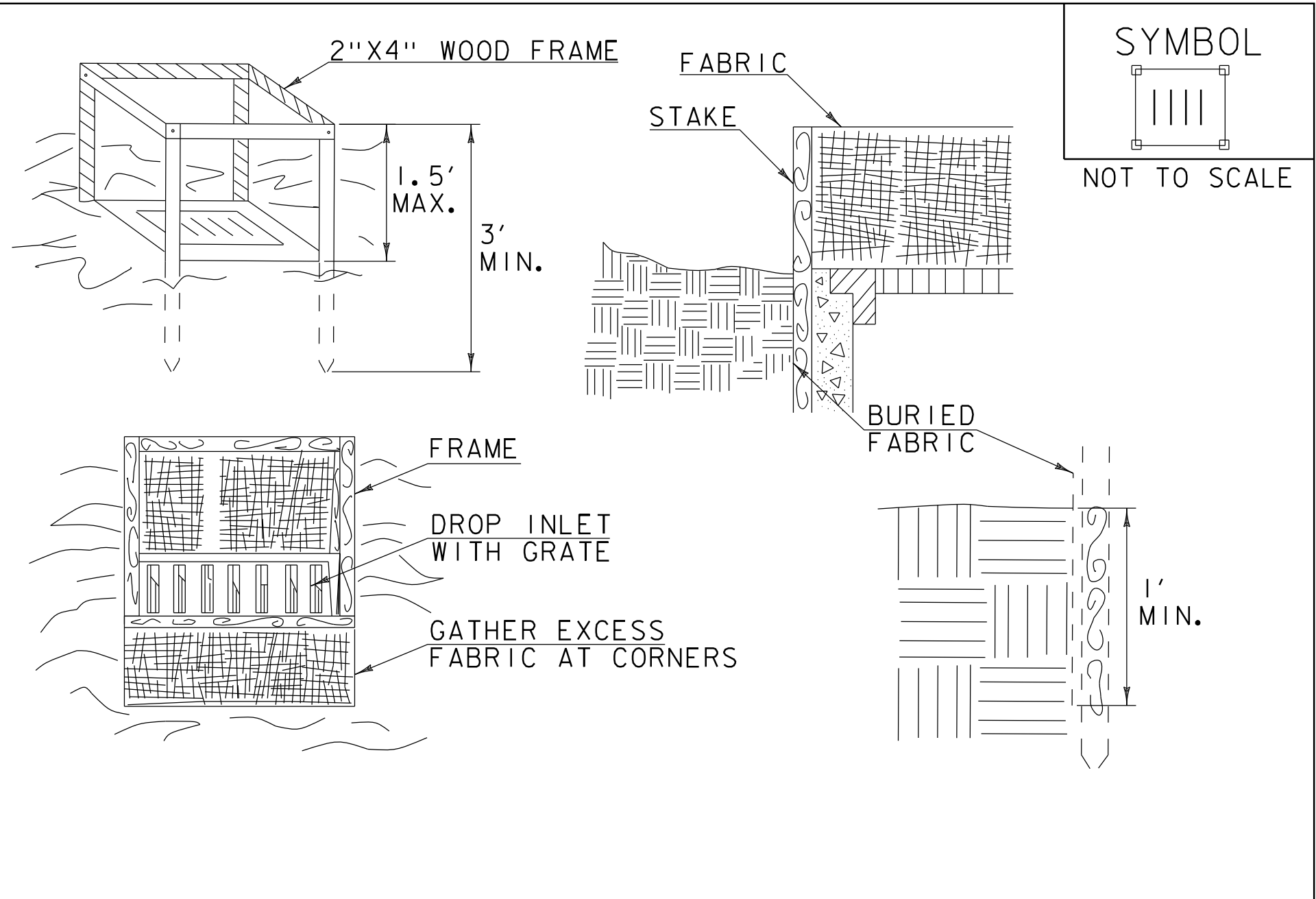
PROJECT LEADER: D. CONGER DRAWN BY: P. DAY

DESIGNED BY: P. DAY CHECKED BY: D. CONGER

DRAINAGE & EROSION PREVENTION SHT 3 SHEET 15 OF 26



I:\V\19452 - Brandon Union Maple Saw\Union Maple.dgn\\Union Street\619452-EPSC-Details.dgn



CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

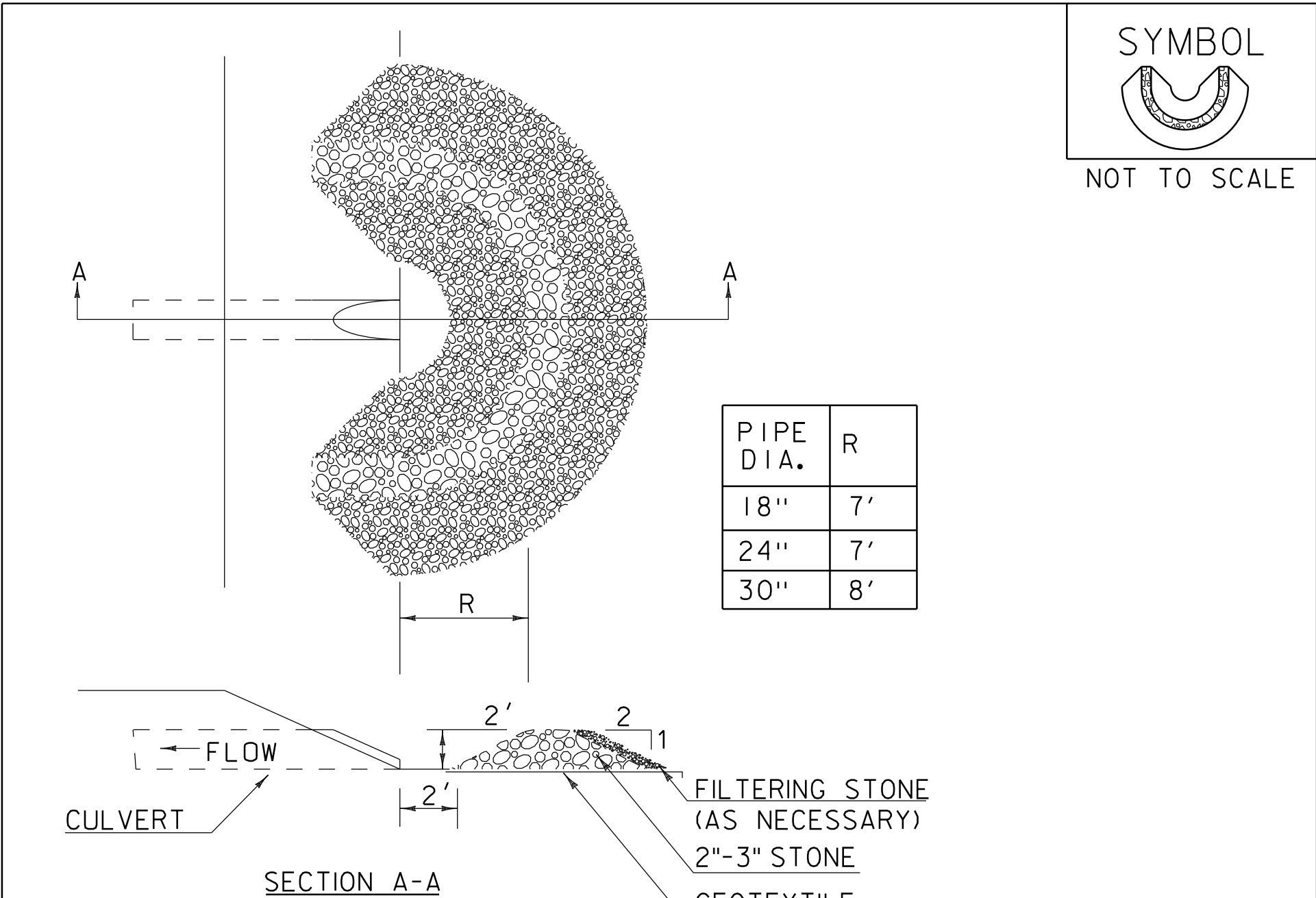
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FILTER FABRIC  
DROP INLET  
PROTECTION

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 INLET PROTECTION DEVICE, TYPE I (PAY  
ITEM 653.40).

REVISIONS		
MARCH 7, 2008	WHF	
JANUARY 13, 2009	WHF	



CONSTRUCTION SPECIFICATIONS

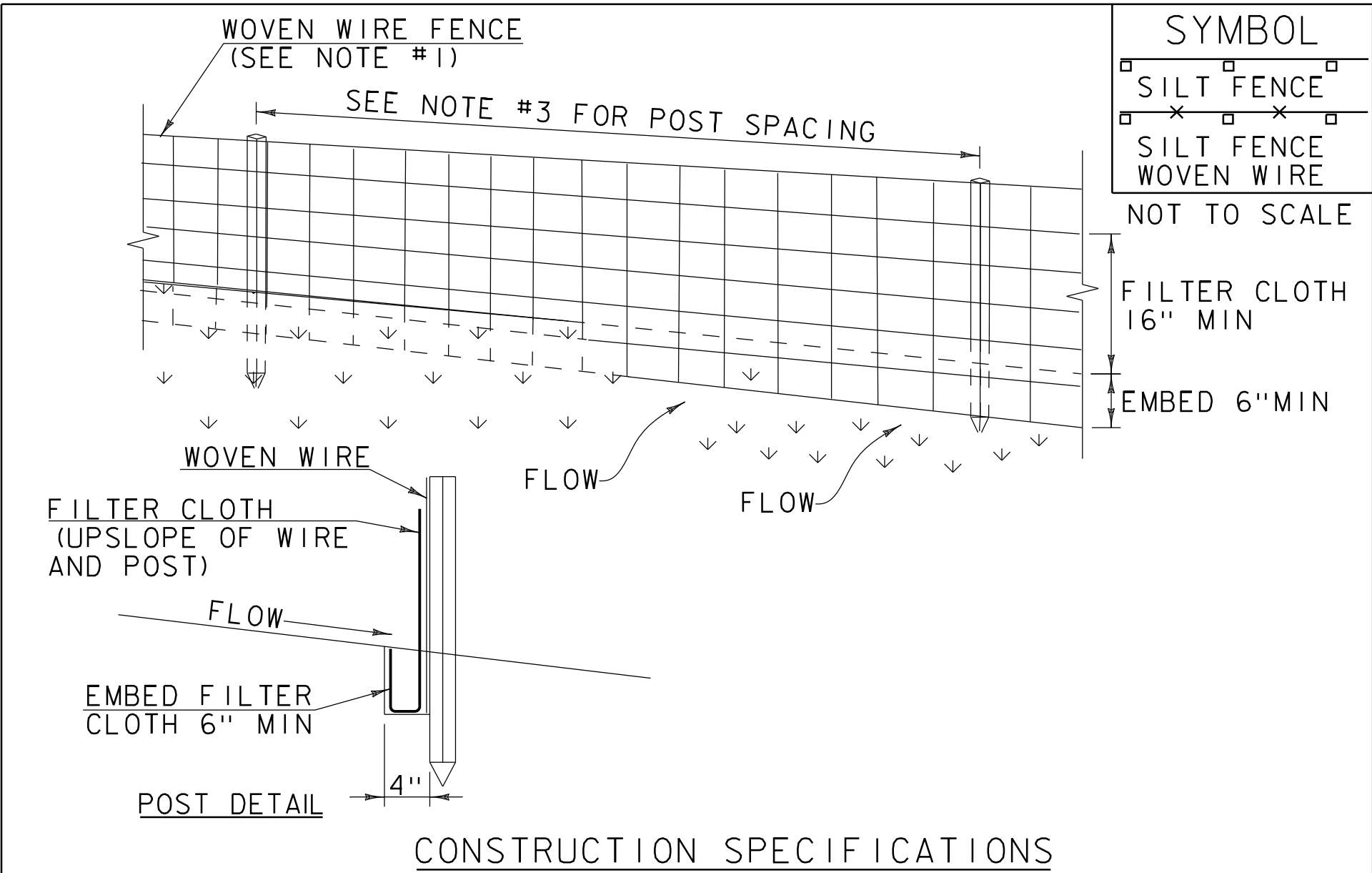
1. USE 2" TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED WITH VEGETATION, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE . (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE MUST BE DISPOSED OF APPROPRIATELY.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 4 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS  
ORIGINALLY DEVELOPED BY USDA-NRCS

PIPE INLET  
PROTECTION

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH  
SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY  
ITEM 653.40).

REVISIONS		
MARCH 6, 2008	WHF	
JANUARY 13, 2009	WHF	



1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

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

SILT FENCE

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 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE  
FOR SILT FENCE (PAY ITEM 649.5) OR GEOTEXTILE FOR  
SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS		
MARCH 21, 2008	WHF	
DECEMBER 11, 2008	WHF	
JANUARY 13, 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			

GENERAL GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	19-19-19	PELLETIZED	LIQUID
500 LBS/AC		2 TONS/AC	4.4 GAL/AC

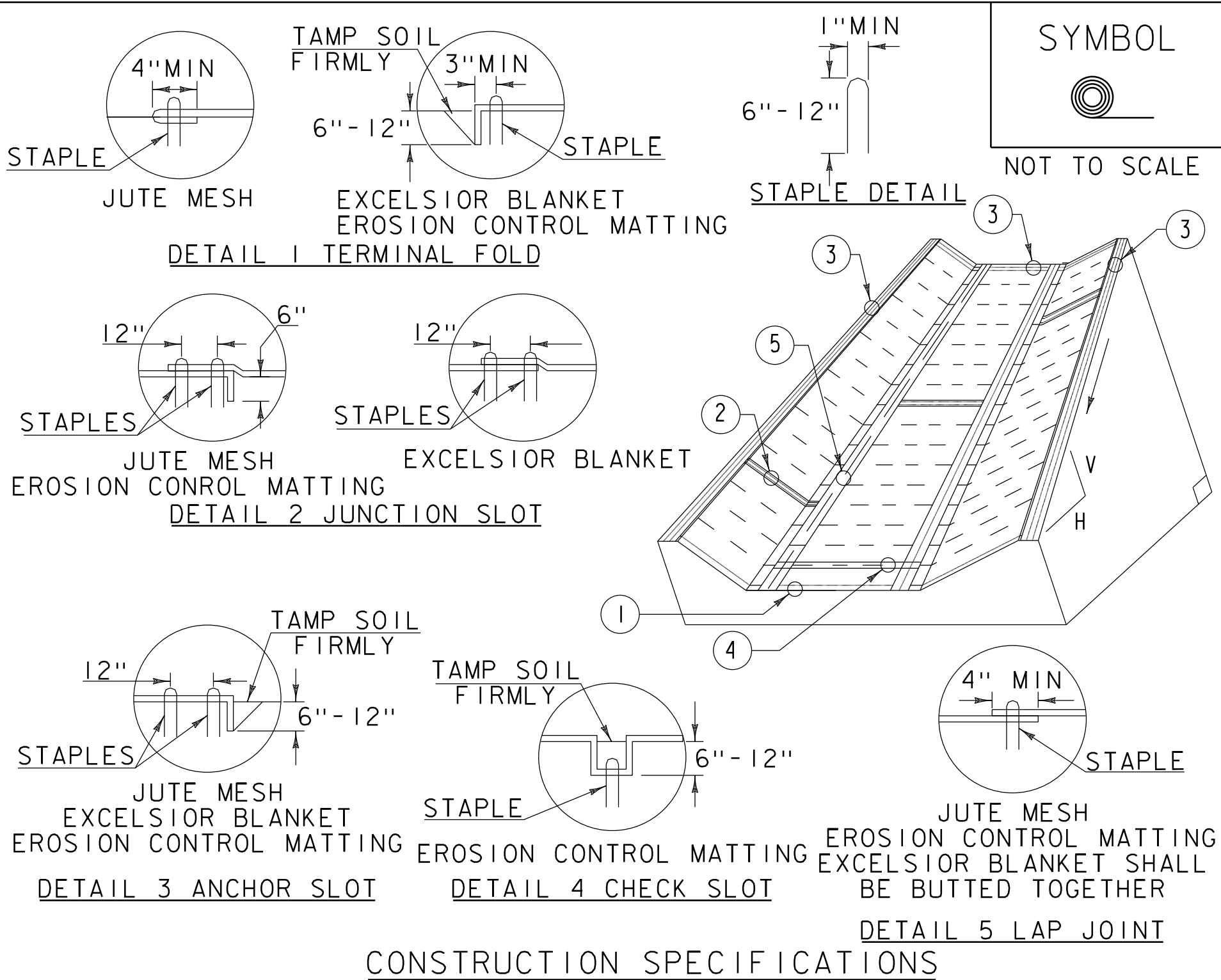
CONSTRUCTION GUIDANCE

- 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 LANSCAPE MAUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

TURF ESTABLISHMENT

REVISIONS	
JUNE 23, 2009	WHF
JANUARY 15, 2010	WHF



CONSTRUCTION SPECIFICATIONS

- 1.EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE , THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25' .
- 2.APPLY FERTILIZER , LIME SEED PRIOR TO PLACING MATTING.
- 3.STAPLES ARE TO BE PLACED ALTERNATELY , IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X150' ROLL OF MATERIAL.
- 4.DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
- 5.ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

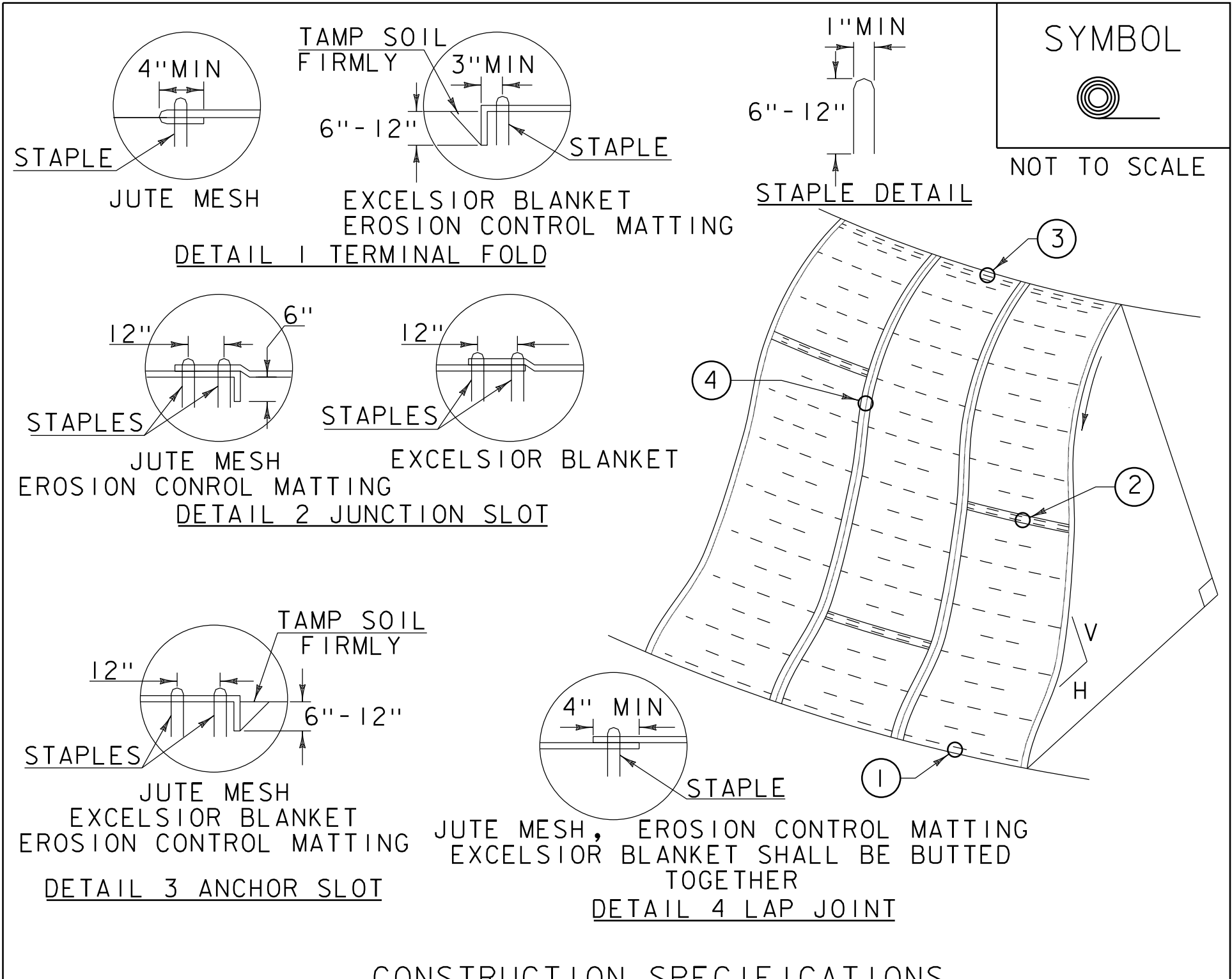
ROLLED EROSION  
CONTROL PRODUCT  
(RECP) DITCH

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 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
MARCH 8 , 2007	JMF
APRIL 16 , 2007	WHF
JANUARY 13 , 2009	WHF



CONSTRUCTION SPECIFICATIONS

- 1.APPLY TO SLOPES GREATER THAN 3H: 1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
- 2.APPLY FERTILIZER , LIME SEED PRIOR TO PLACING MATTING.
- 3.STAPLES ARE TO BE PLACED ALTERNATELY , IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X150' ROLL OF MATERIAL.
- 4.DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
- 5.ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

ROLLED EROSION  
CONTROL PRODUCT  
(RECP) SIDE SLOPE

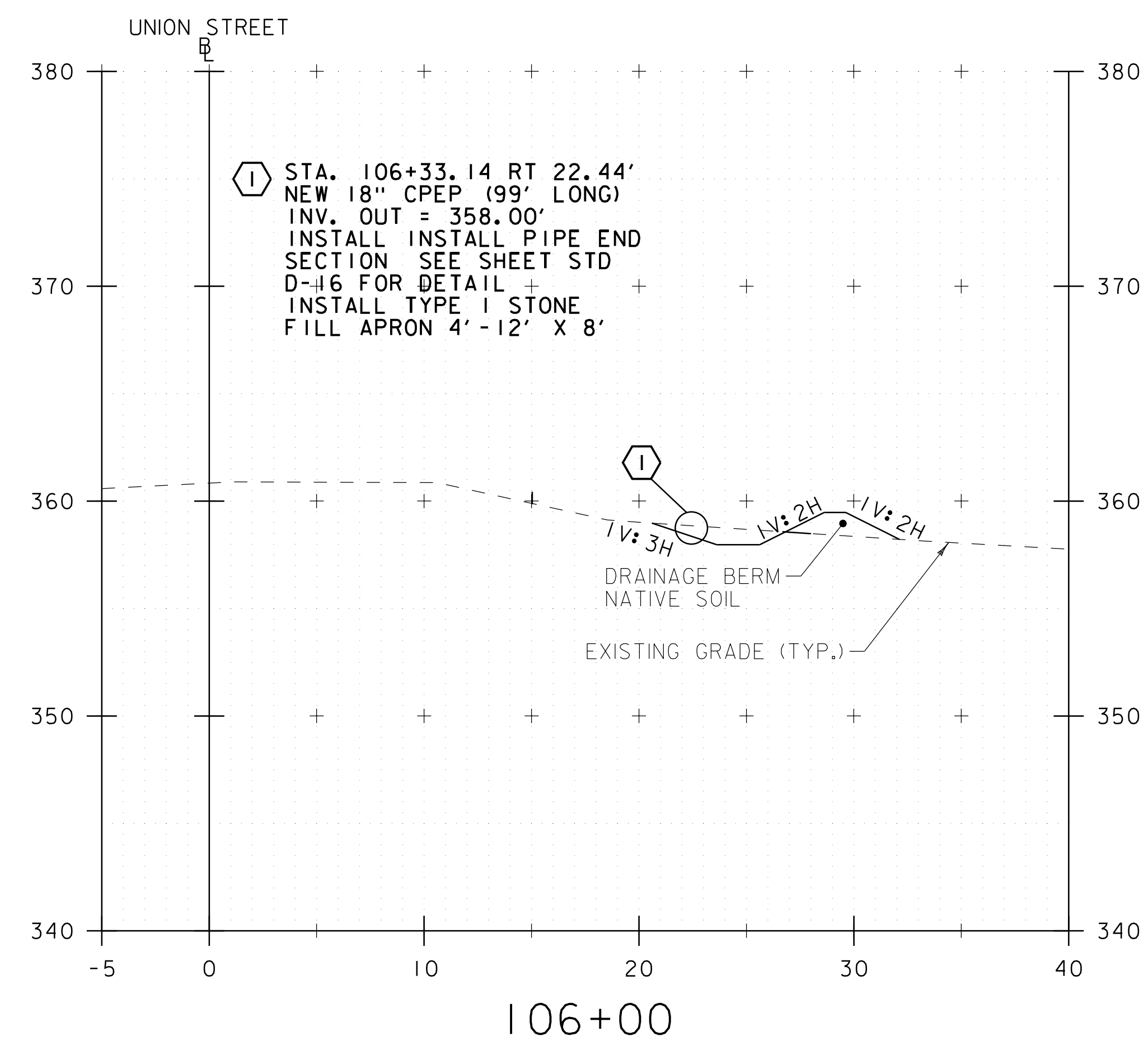
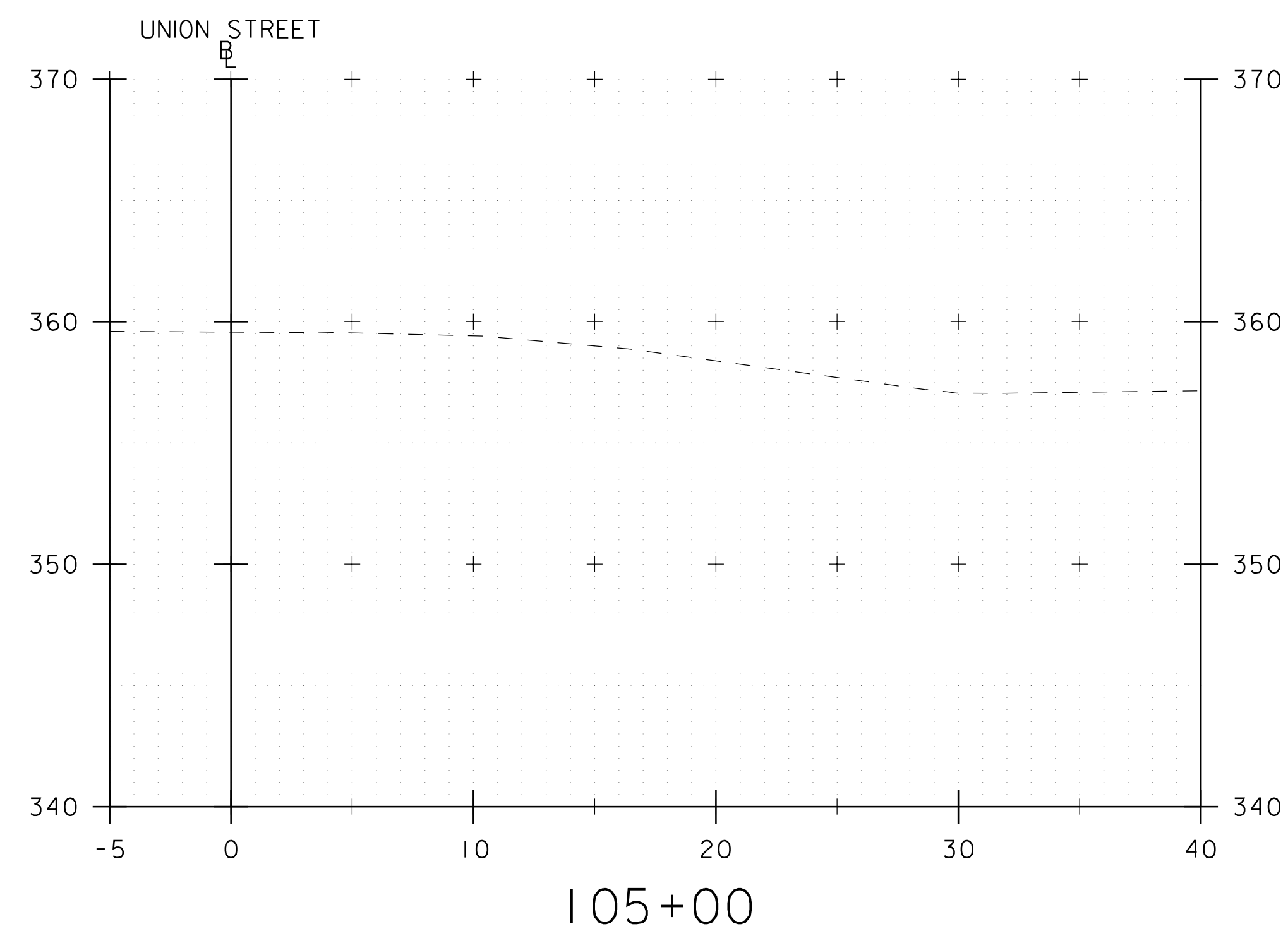
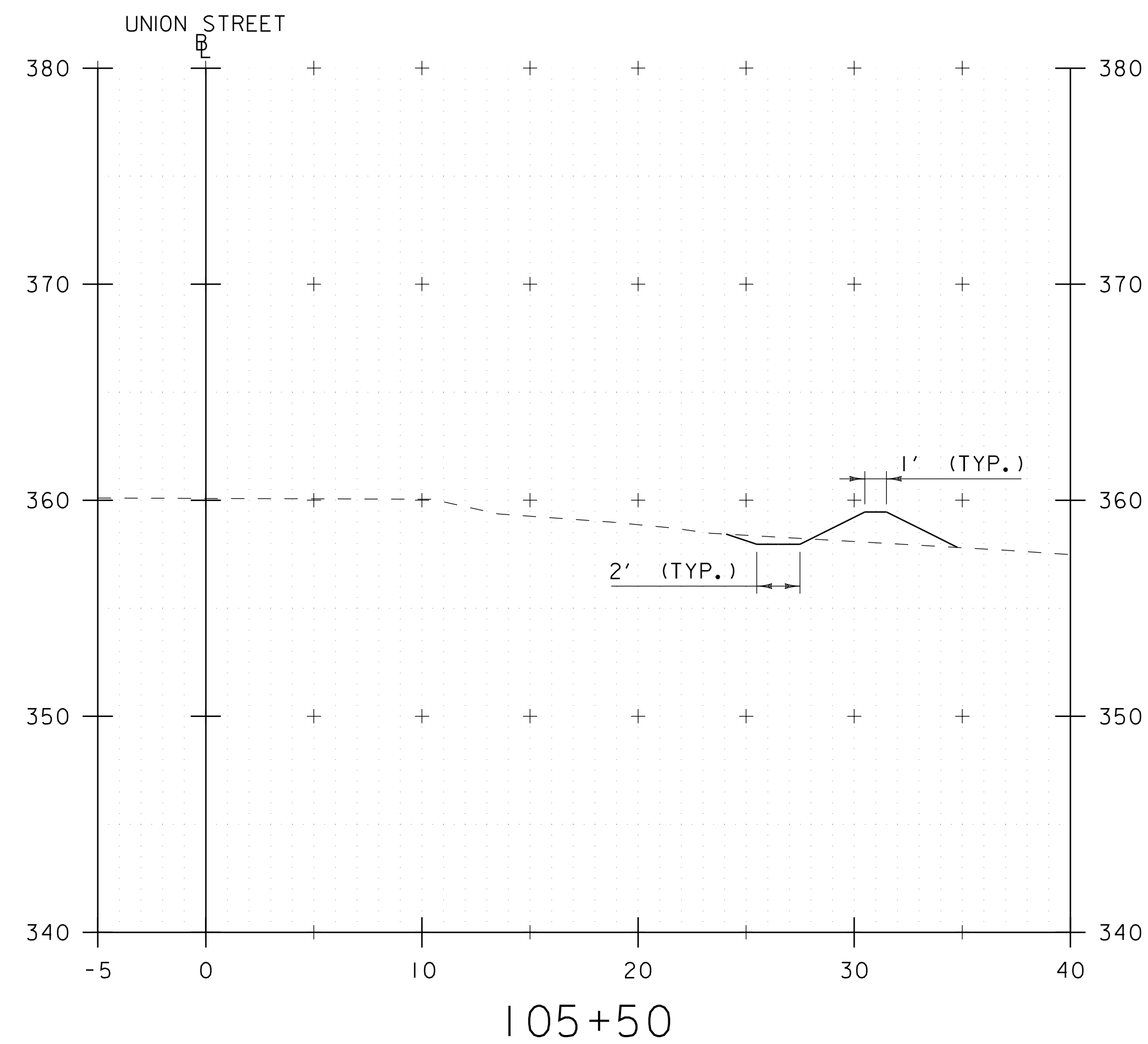
NOTES:

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 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS	
APRIL 16 , 2007	JMF
JANUARY 13 , 2009	WHF





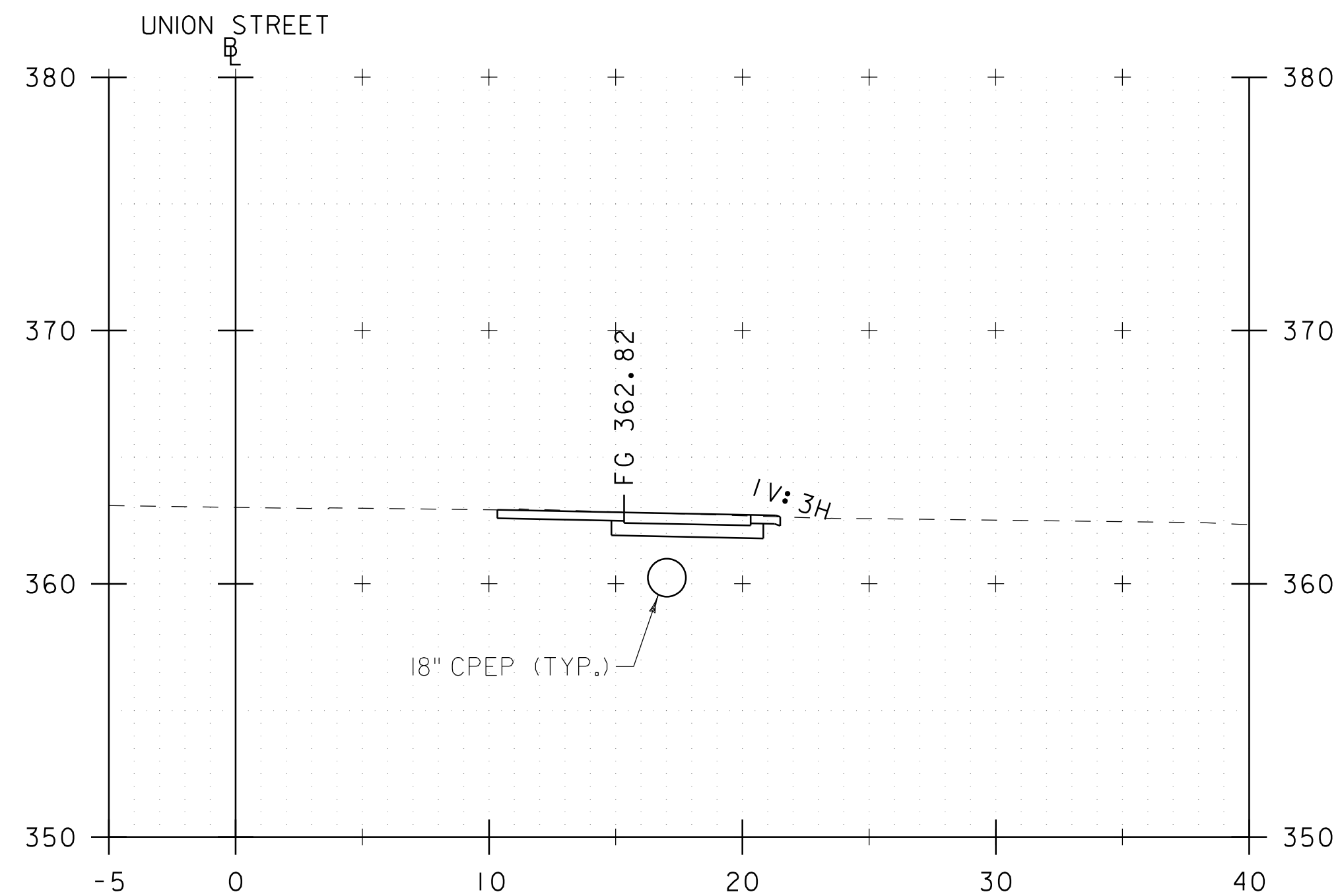
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PROJECT NUMBER:	STP EH 05 (4)

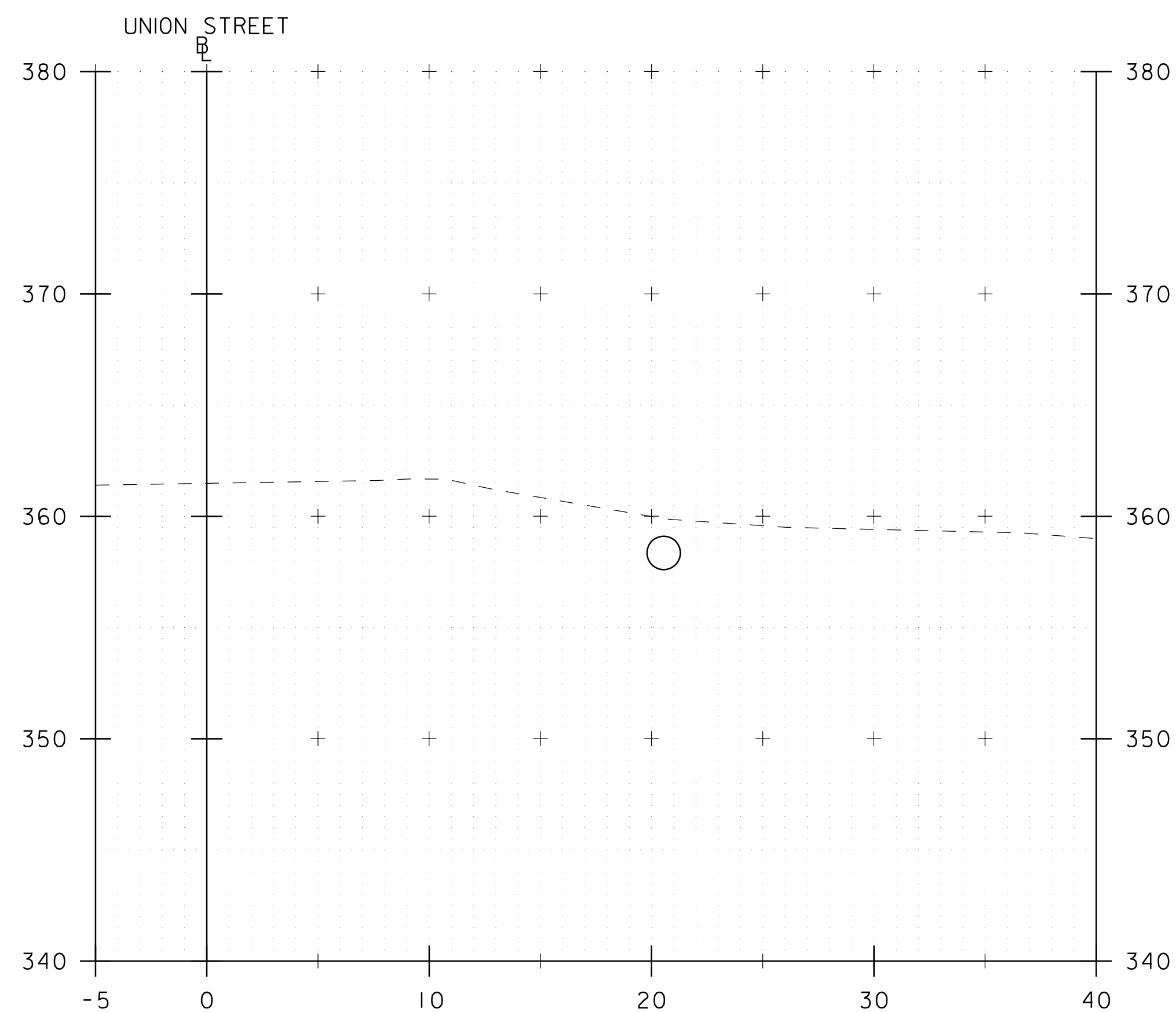
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PROJECT LEADER: D. CONGER  
DESIGNED BY: R. DANIELS  
CROSS SECTIONS SHEET 1

PLOT DATE: 4/24/2019  
DRAWN BY: R. DANIELS  
CHECKED BY: D. CONGER  
SHEET 19 OF 26

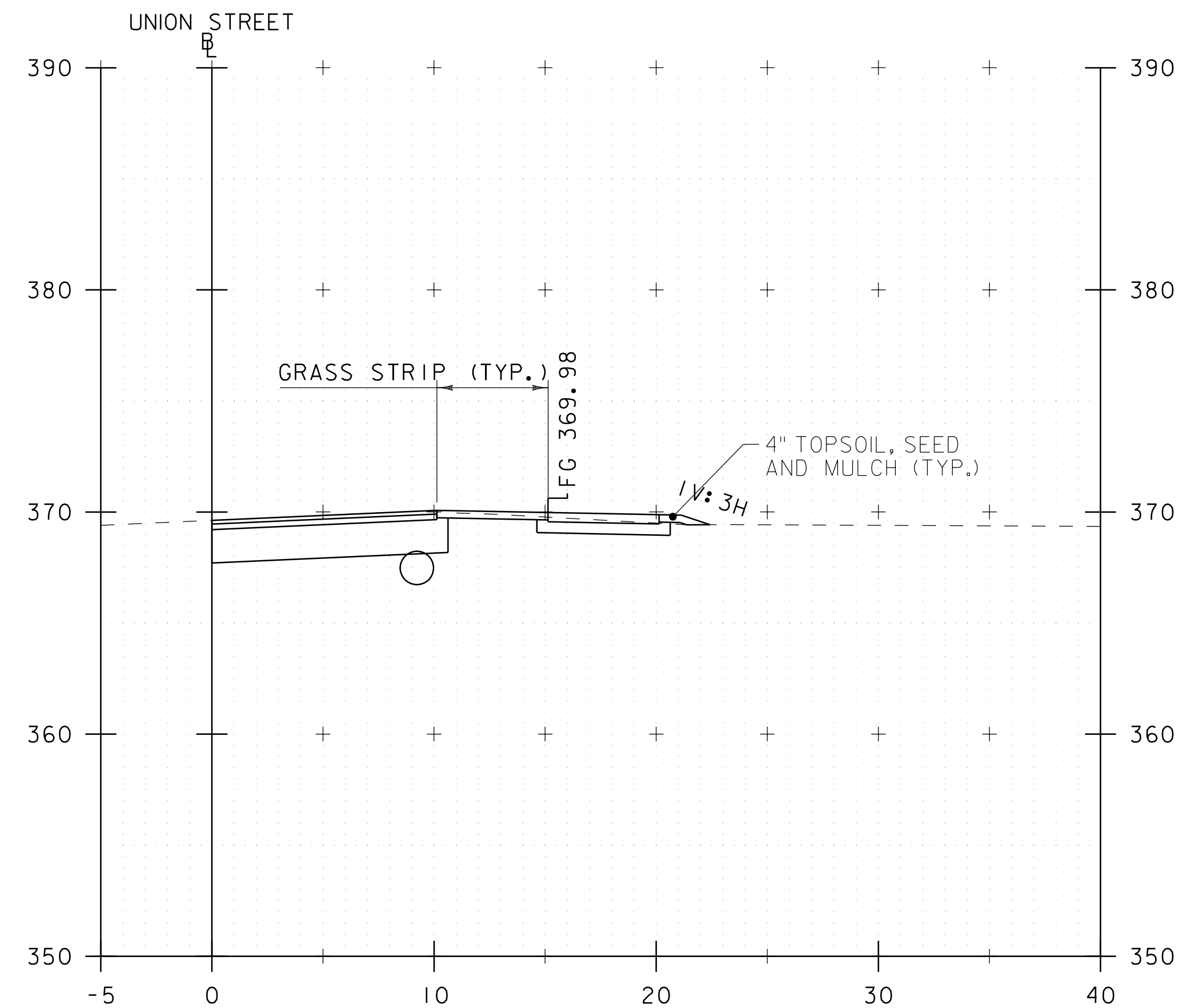




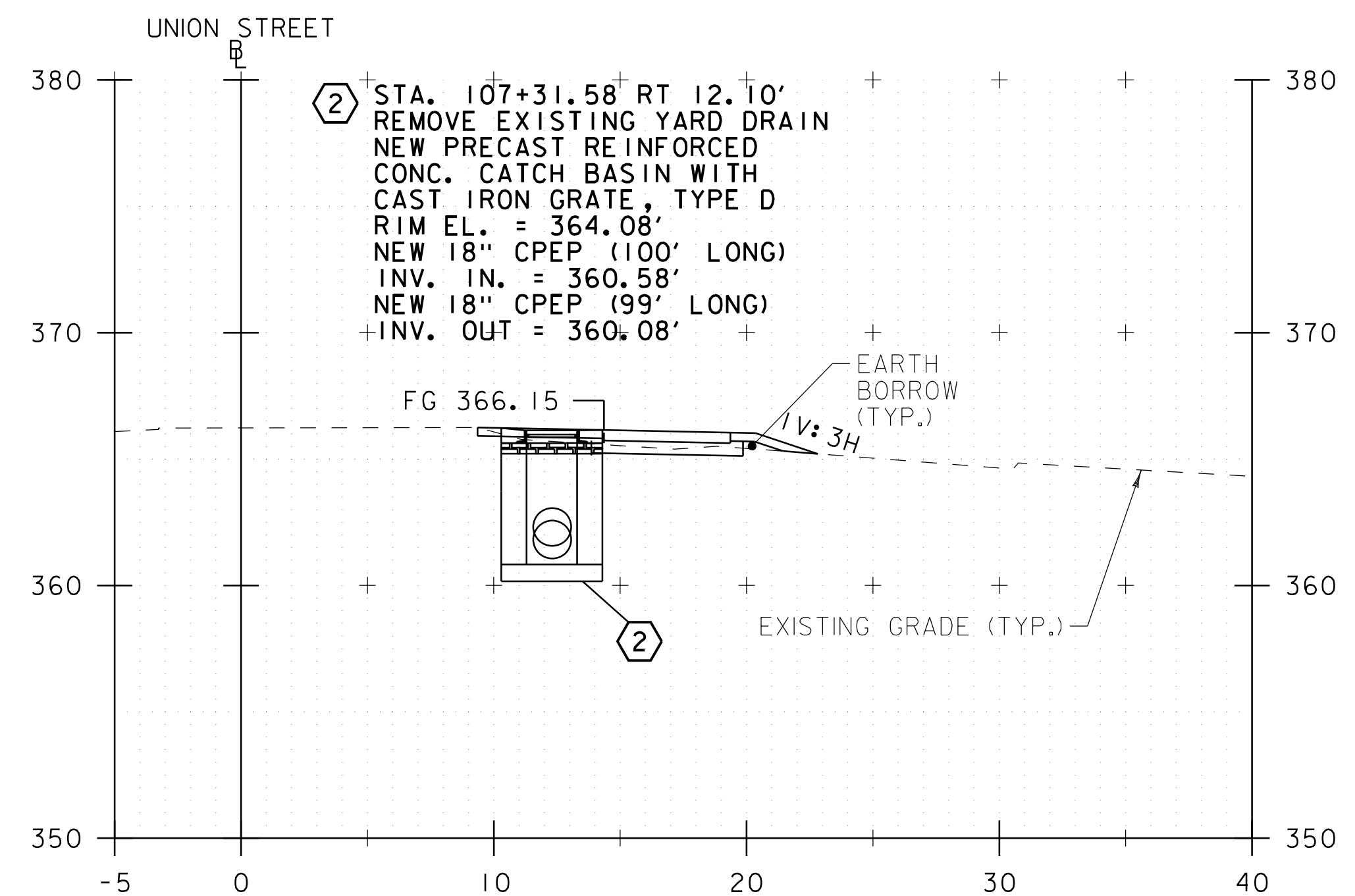
107+00



106+50



108+00



107+50



**CROSS  
SECTIONS  
SHEET 2**

PROJECT NAME: UNION STREET SW.

PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452.xsl.dgn

PROJECT LEADER: D. CONGER

DESIGNED BY: P. DAY

CROSS SECTIONS SHEET 2

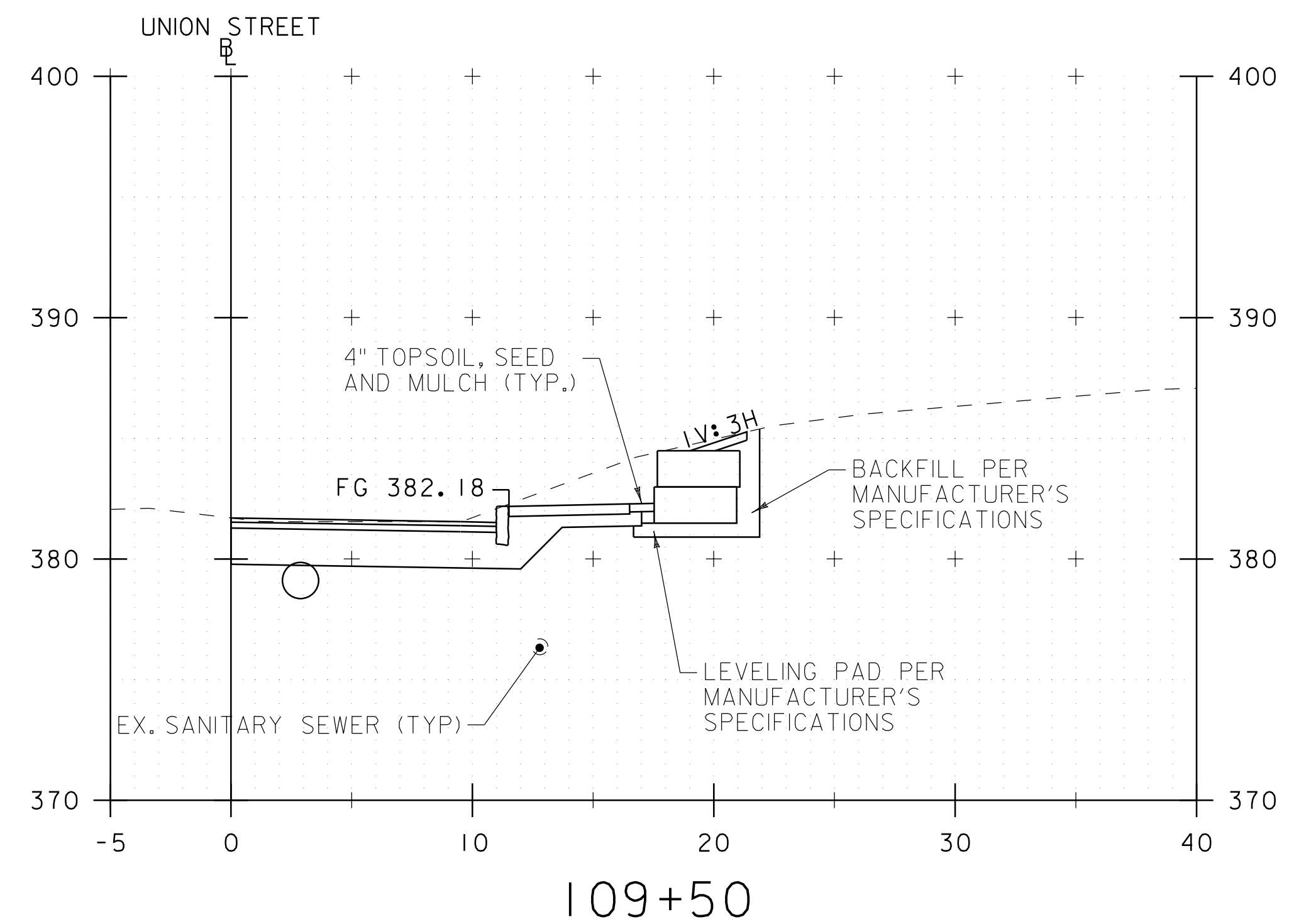
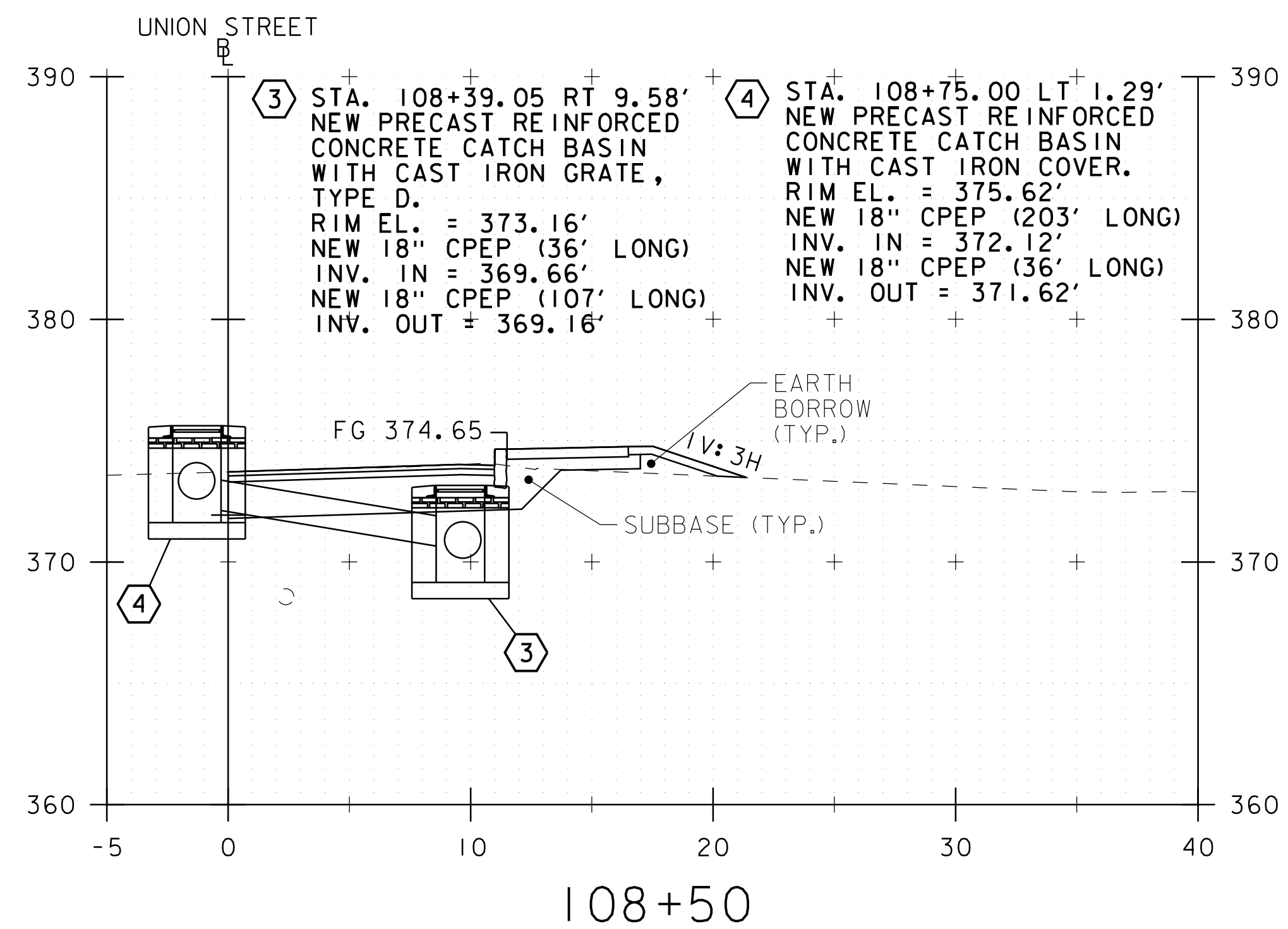
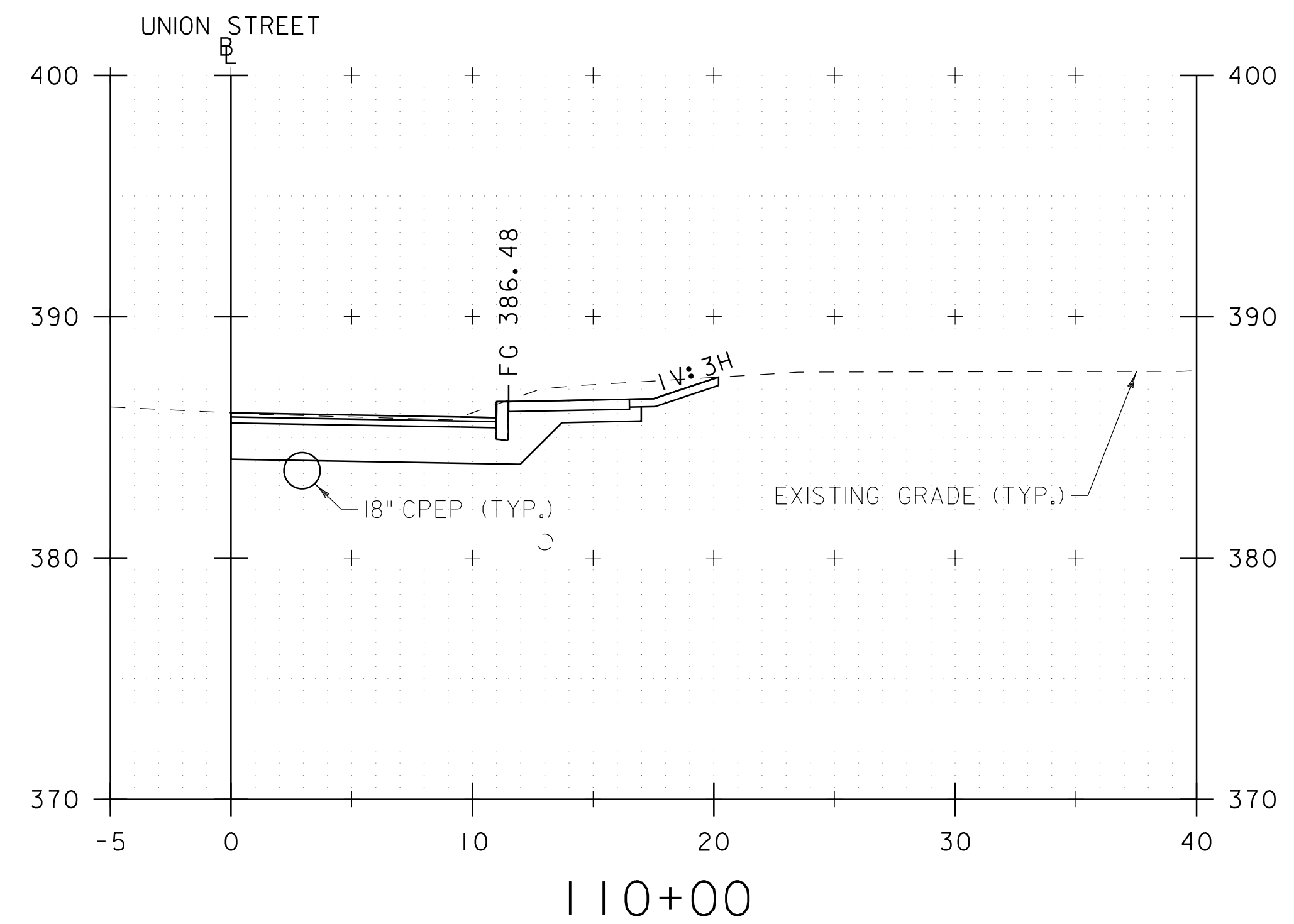
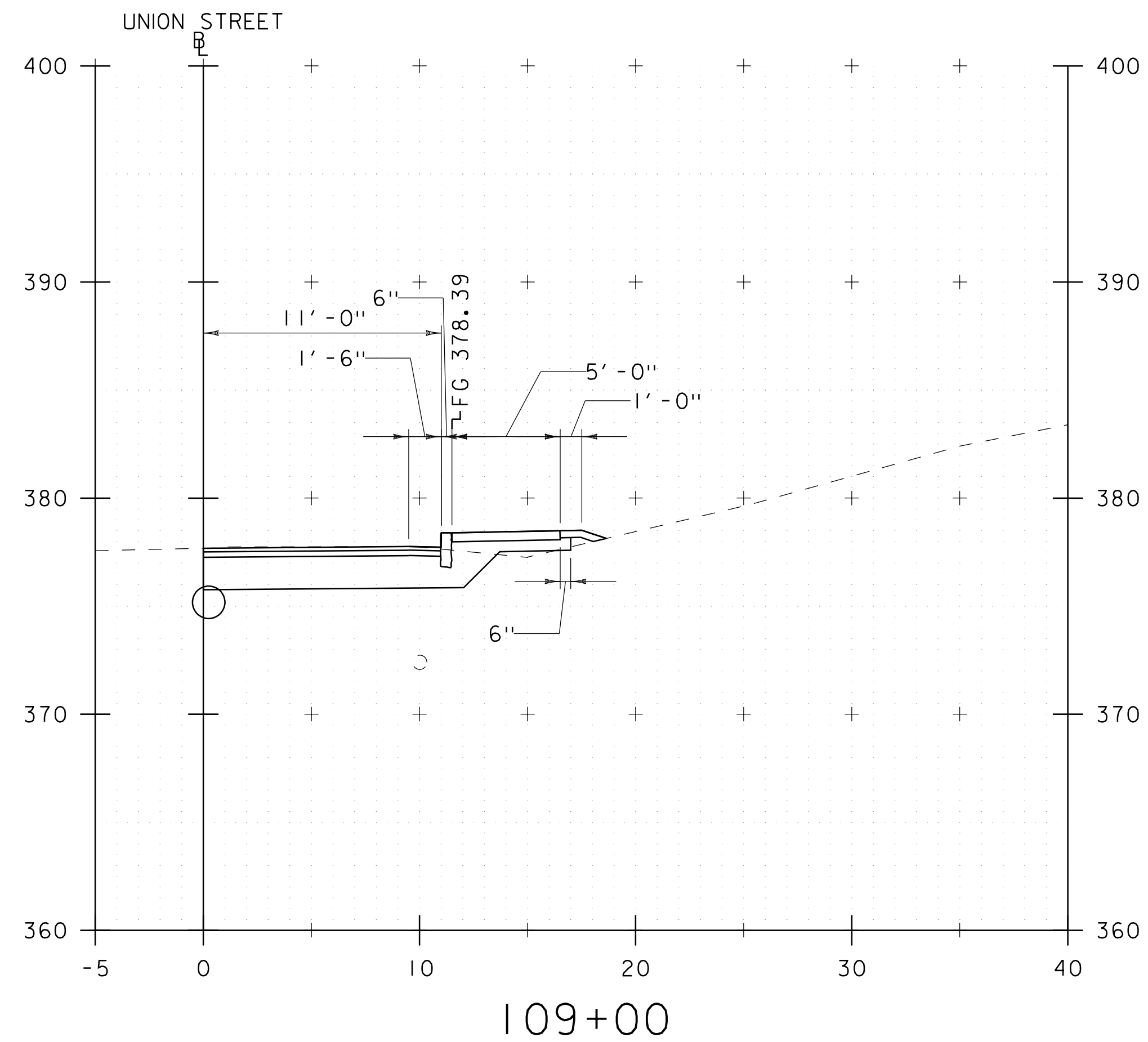
PLOT DATE: 4/24/2019

DRAWN BY: P. DAY

CHECKED BY: D. CONGER

SHEET 19 OF 26





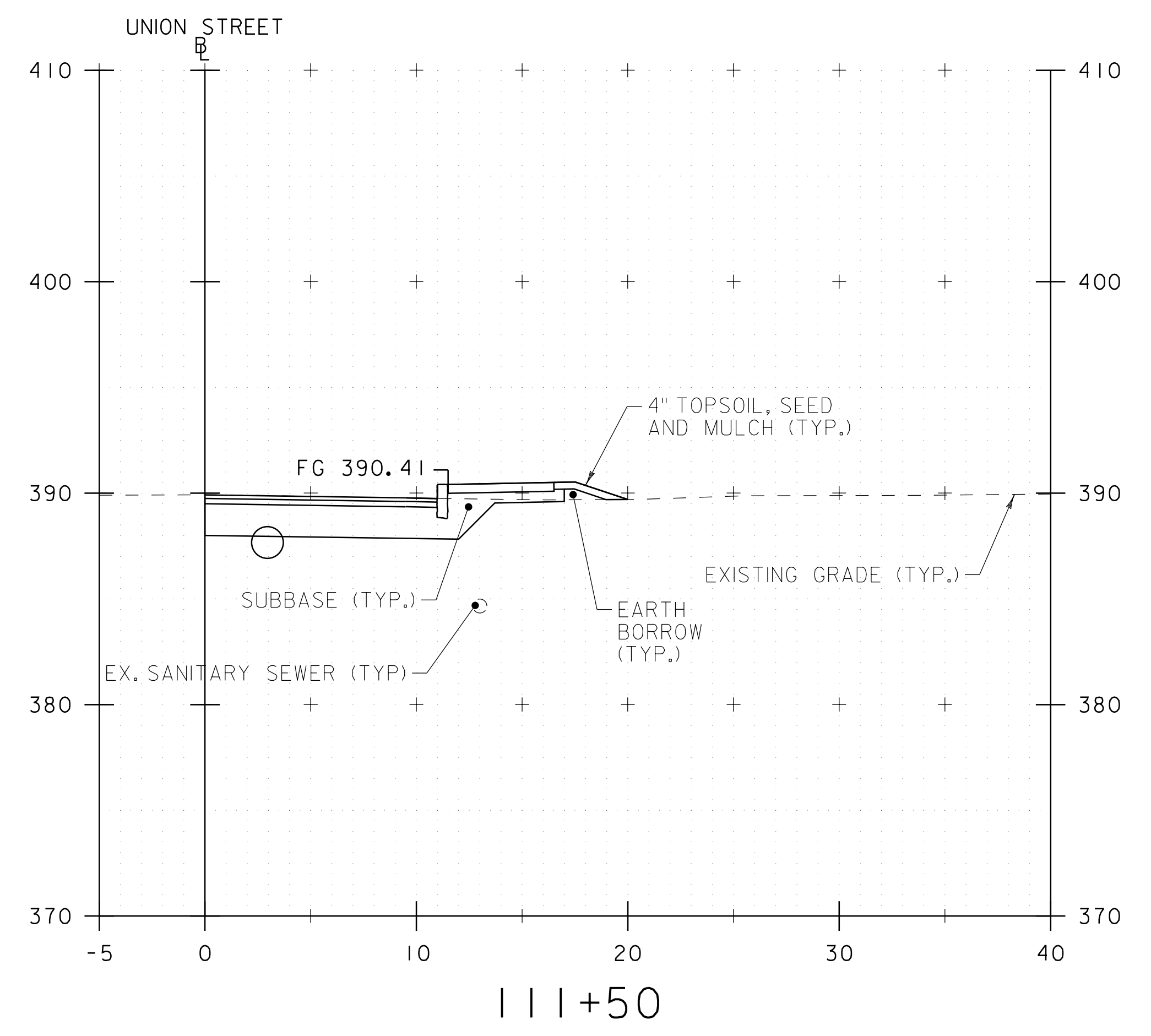
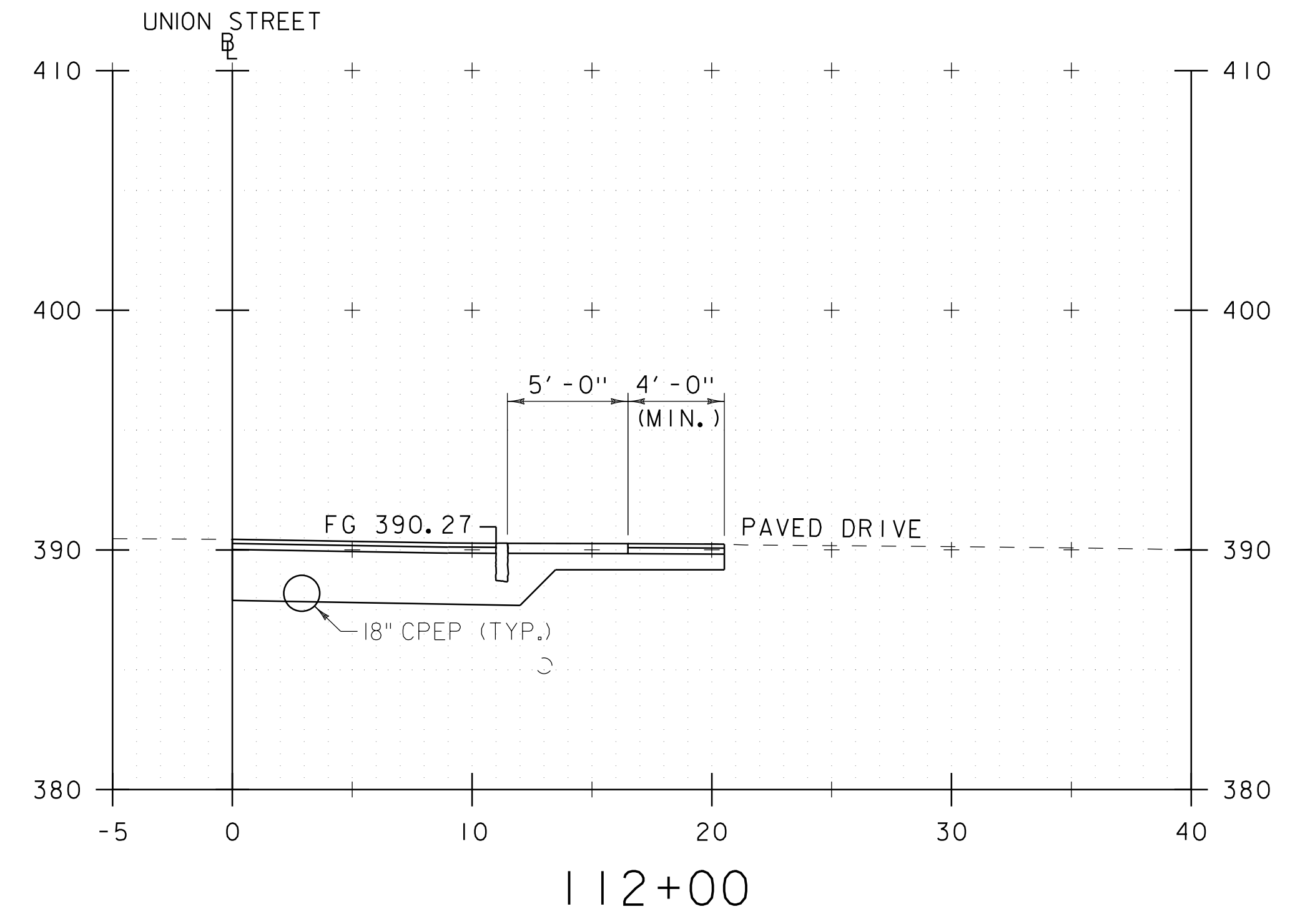
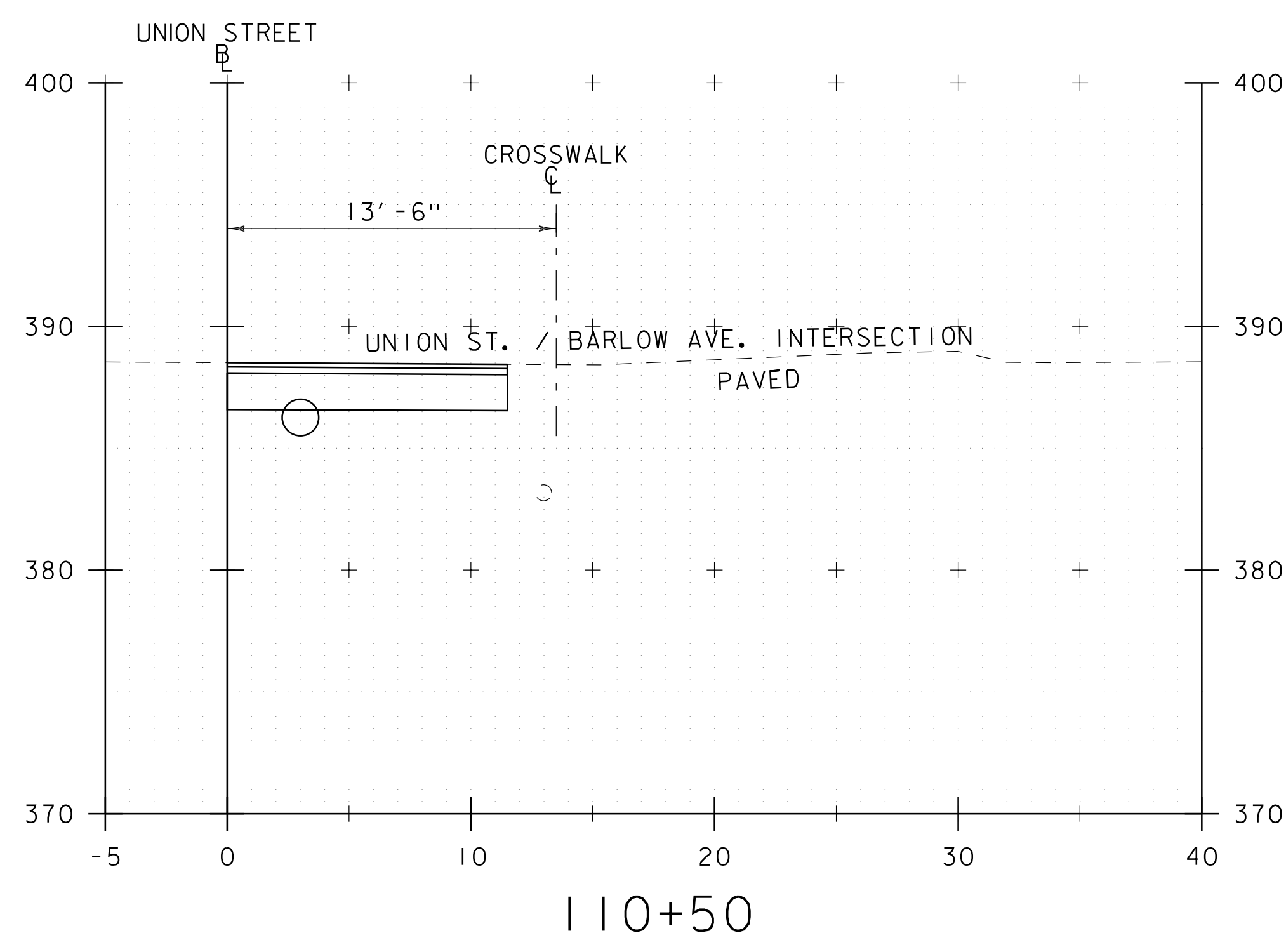
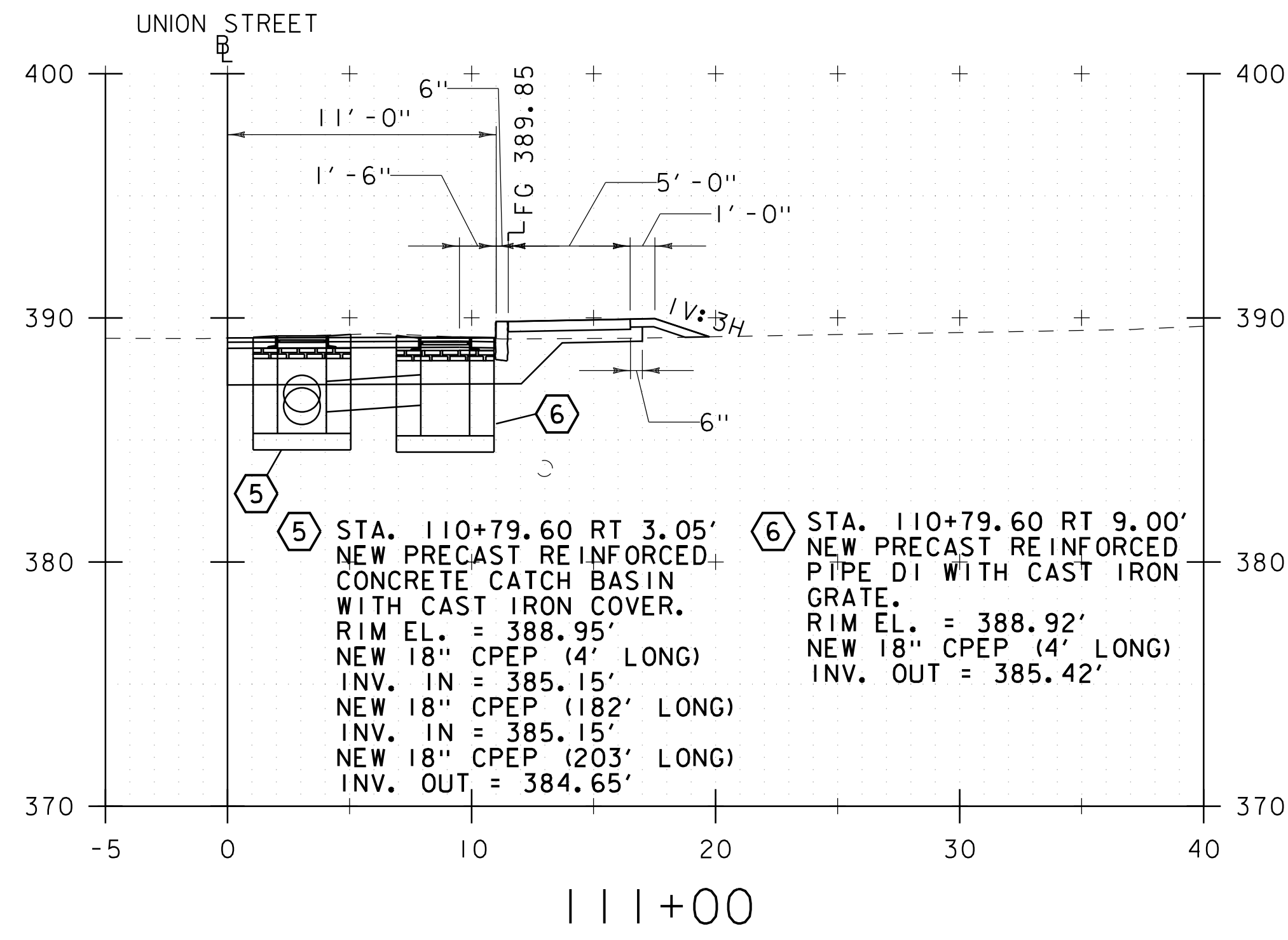
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PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452.xsl.dgn  
PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
CROSS SECTIONS SHEET 3

PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 20 OF 26

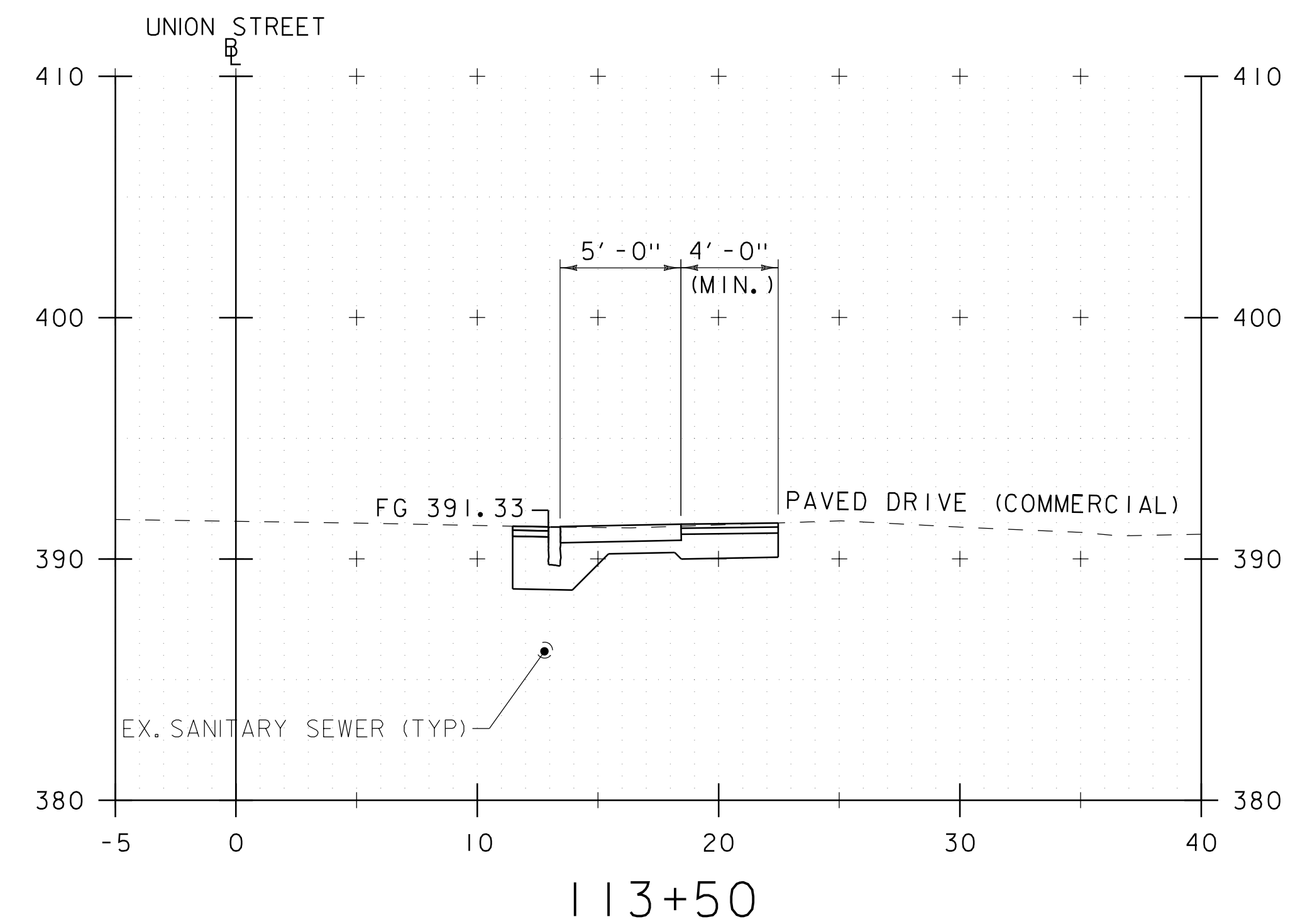
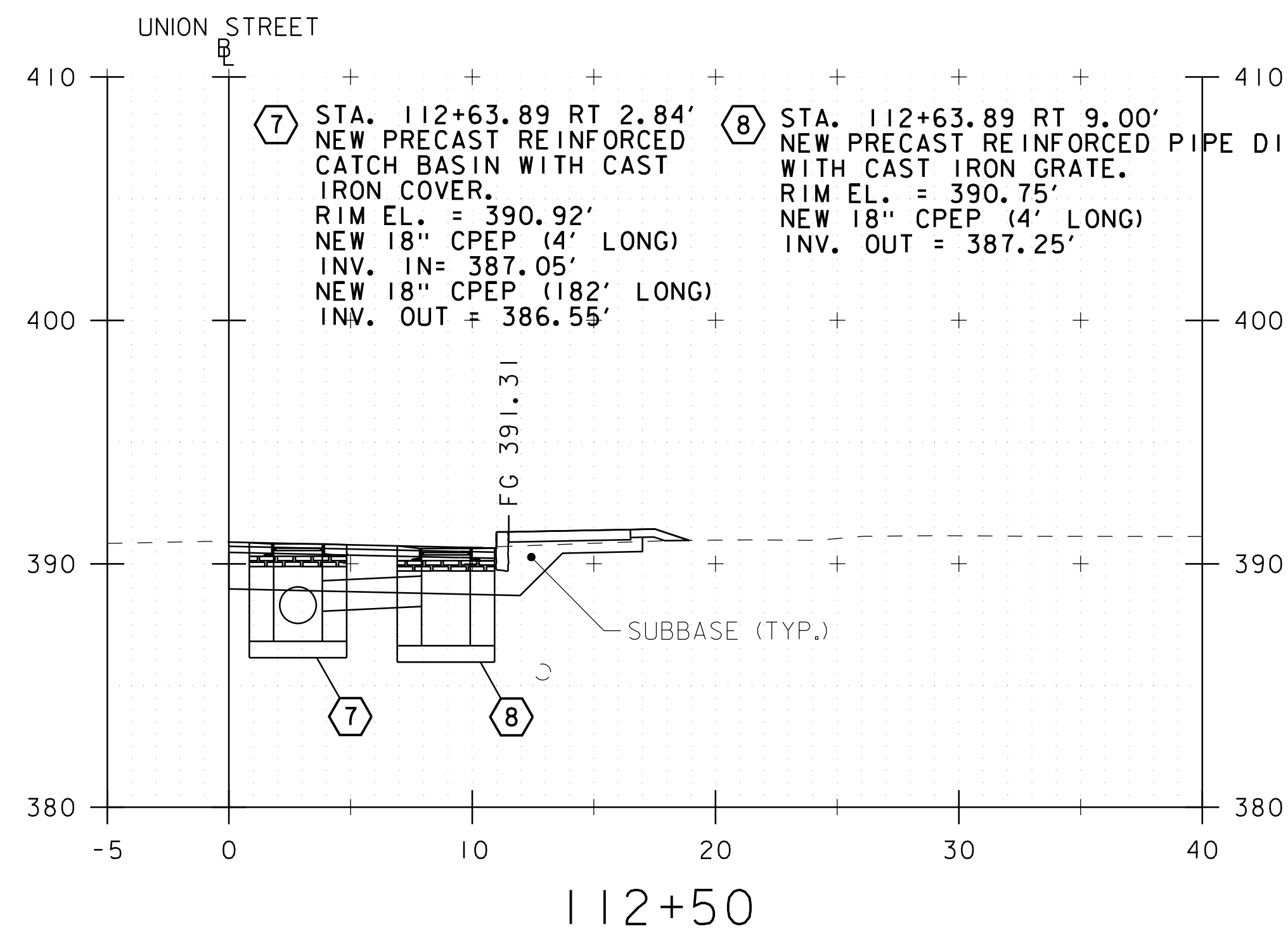
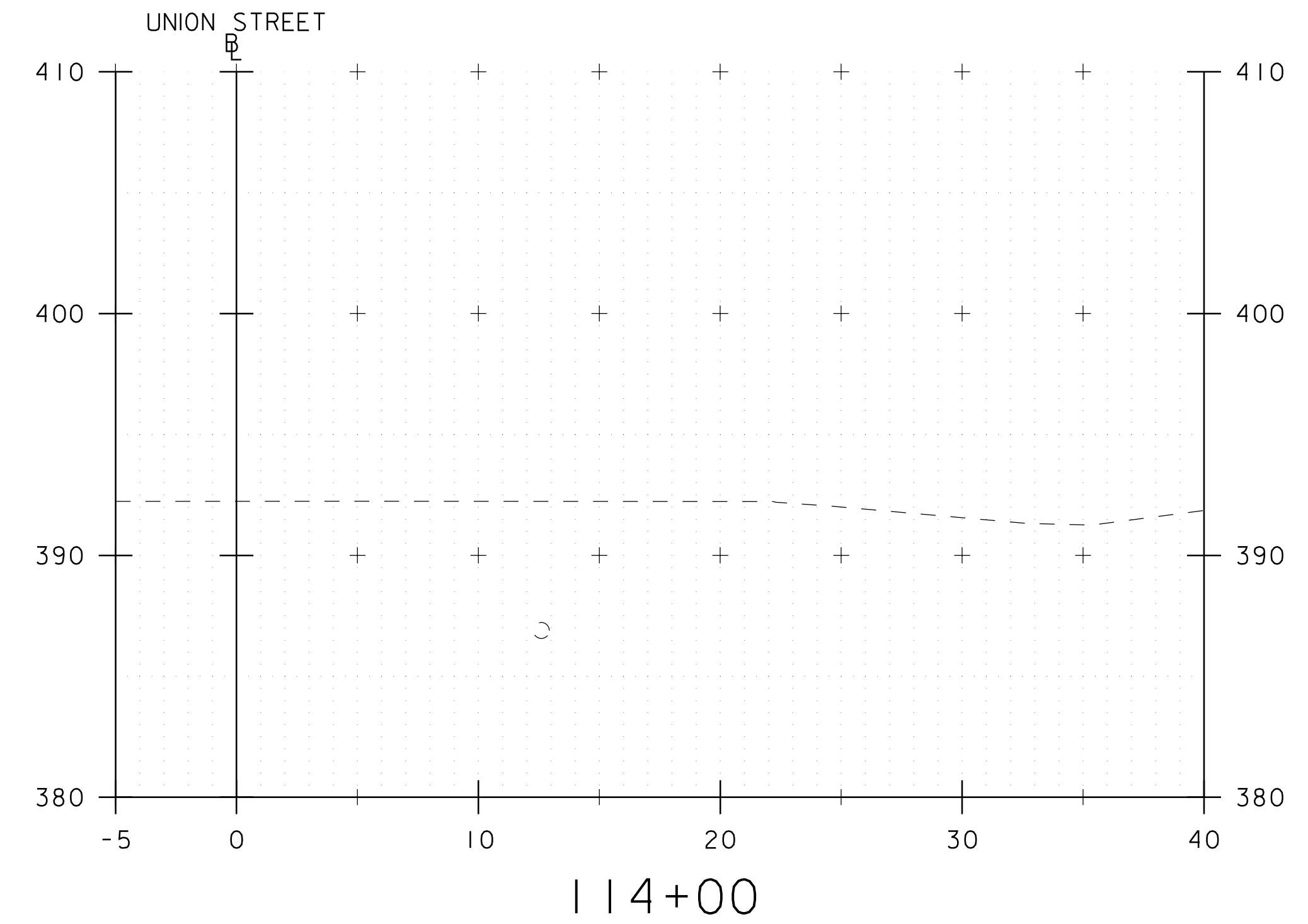
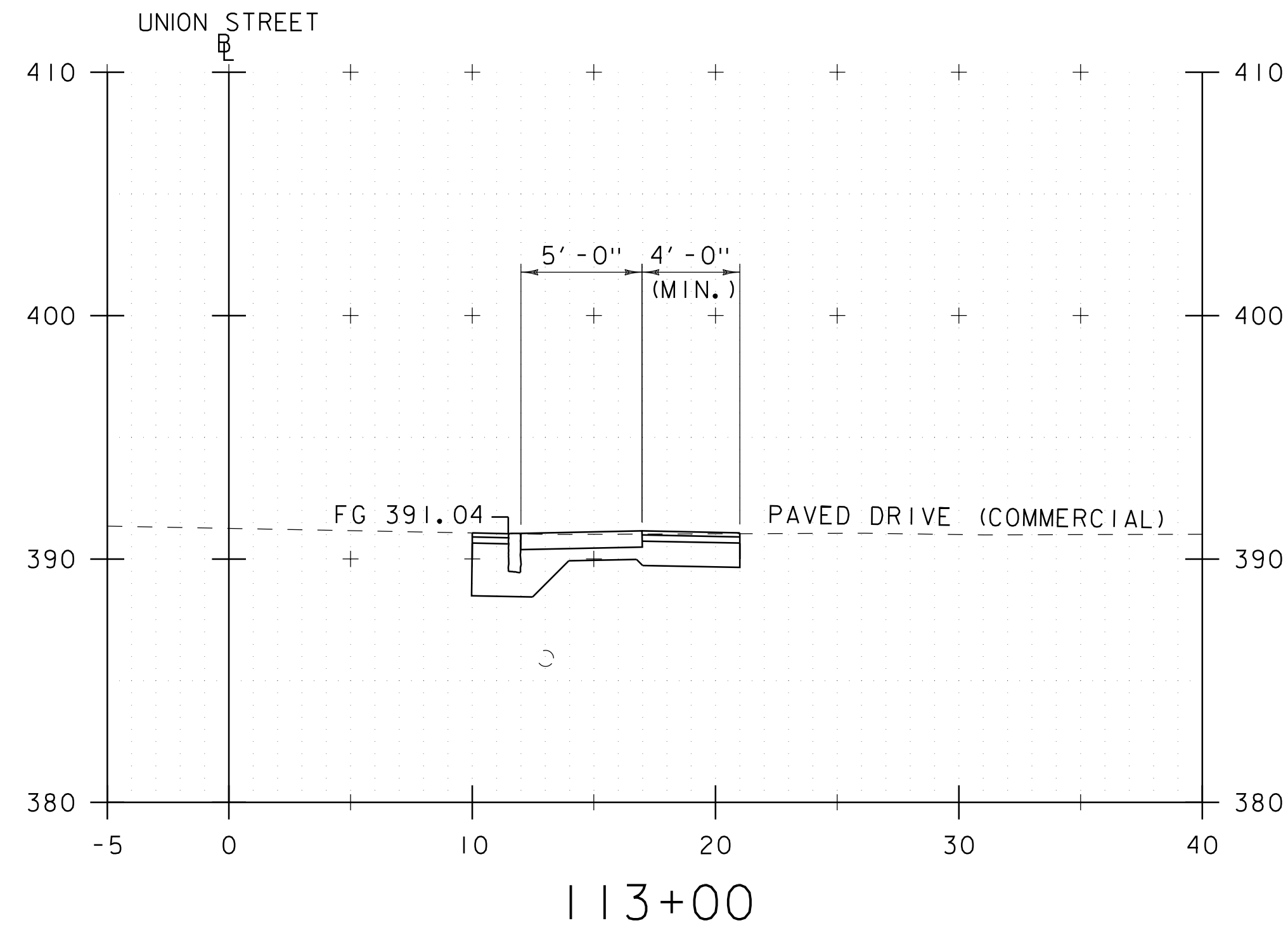




**CROSS  
SECTIONS  
SHEET 4**

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PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452.xsl.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
CROSS SECTIONS SHEET 4	SHEET 21 OF 26





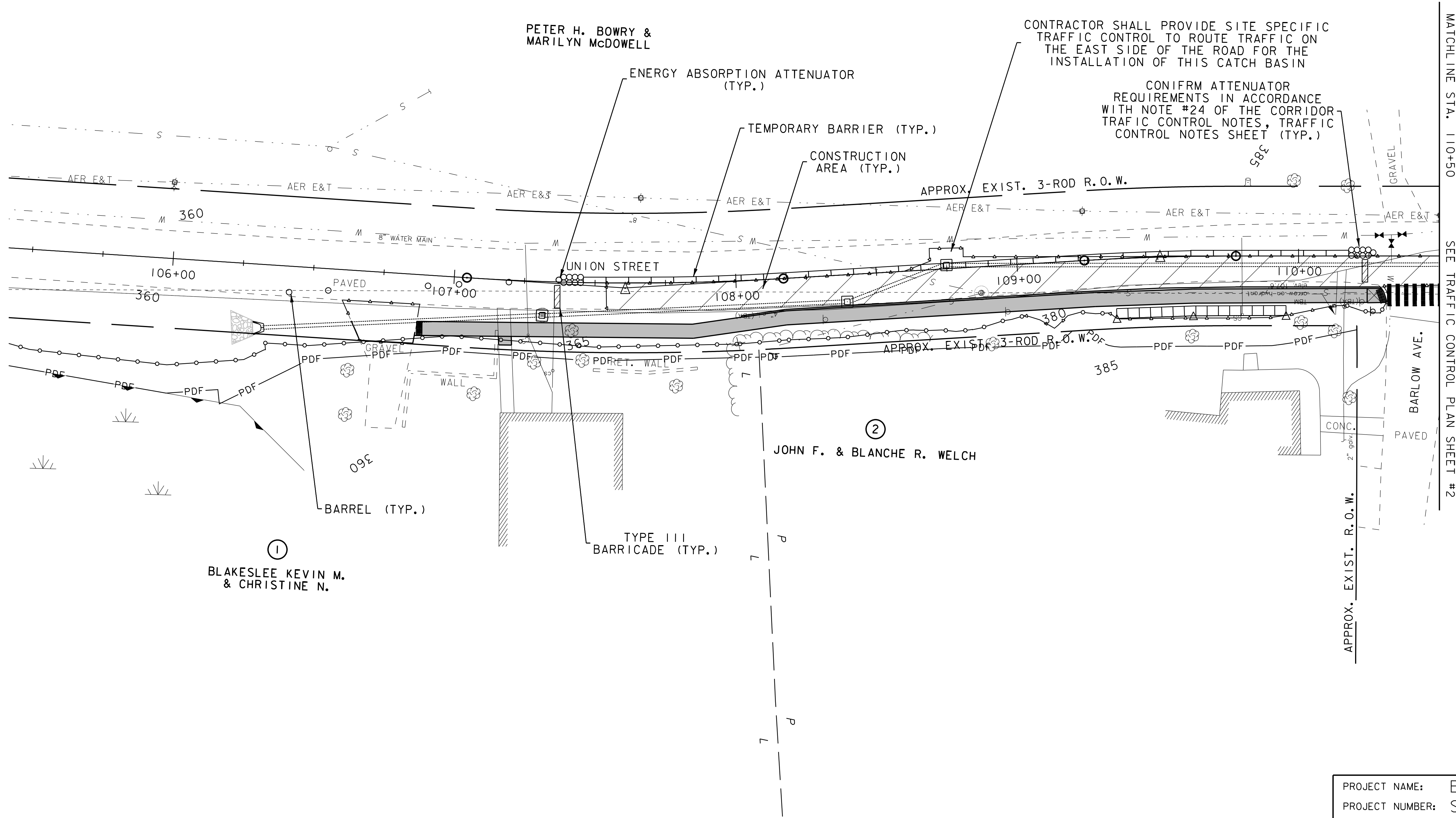
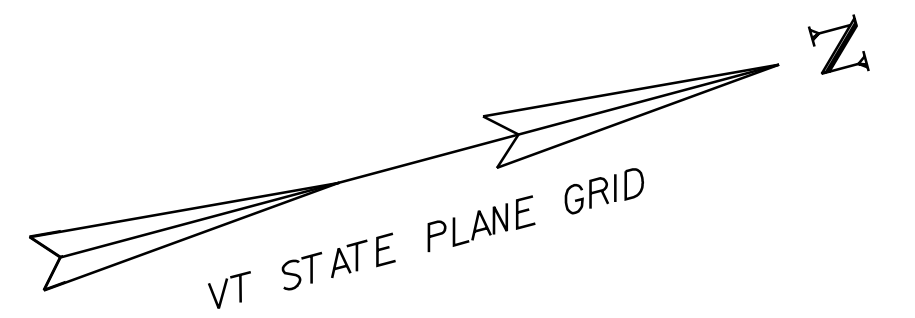
**CROSS  
SECTIONS  
SHEET 5**

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PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452\_xsl.dgn  
PROJECT LEADER: D. CONGER  
DESIGNED BY: P. DAY  
CROSS SECTIONS SHEET 5

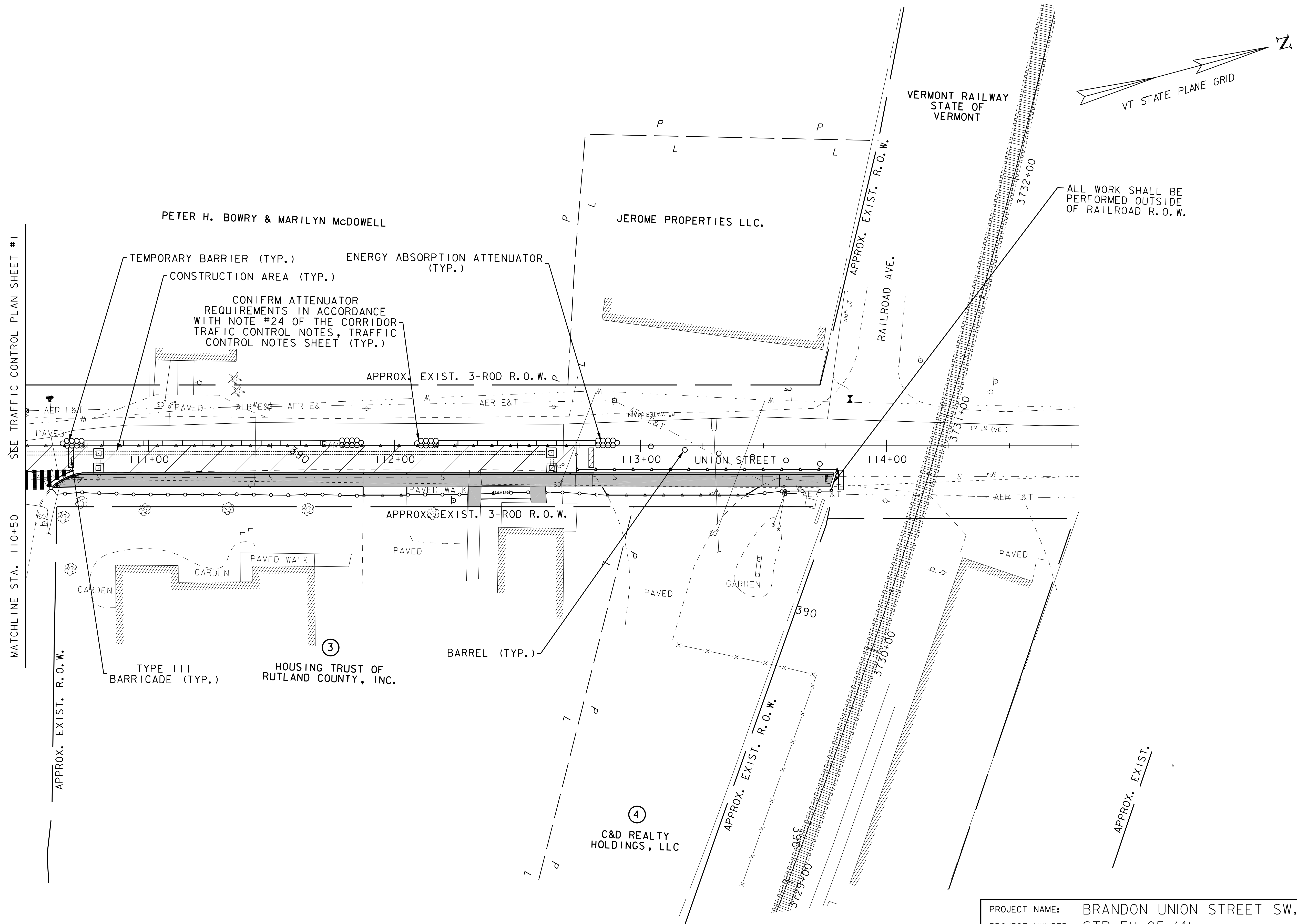
PLOT DATE: 4/24/2019  
DRAWN BY: P. DAY  
CHECKED BY: D. CONGER  
SHEET 22 OF 26





PROJECT NAME: BRANDON UNION STREET SW.	
PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452.tc.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
TRAFFIC CONTROL PLAN SHEET 1	SHEET 23 OF 26

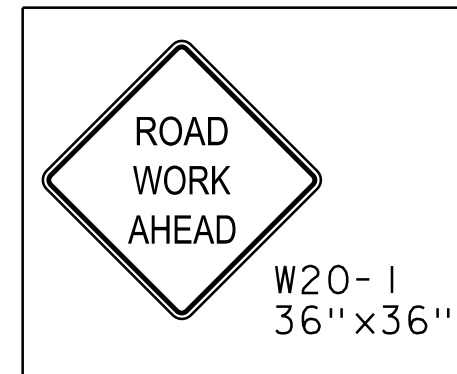




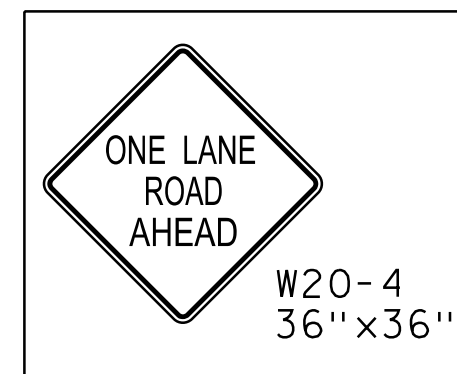
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PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 619452.tc.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
TRAFFIC CONTROL PLAN SHEET 2	SHEET 24 OF 26



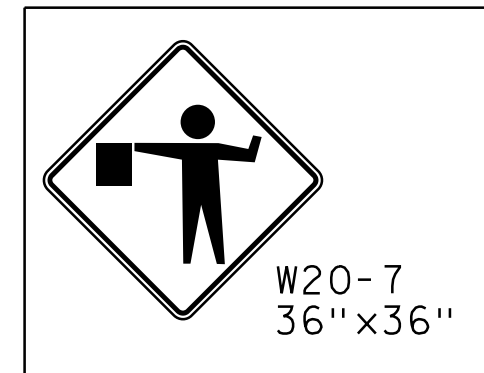
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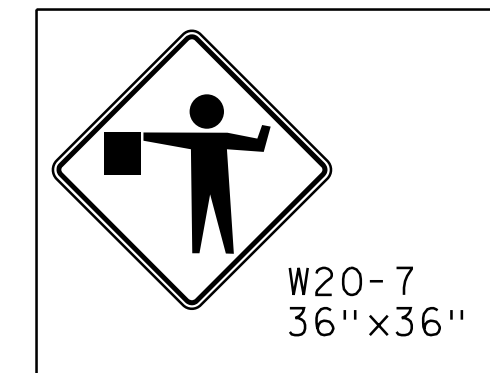
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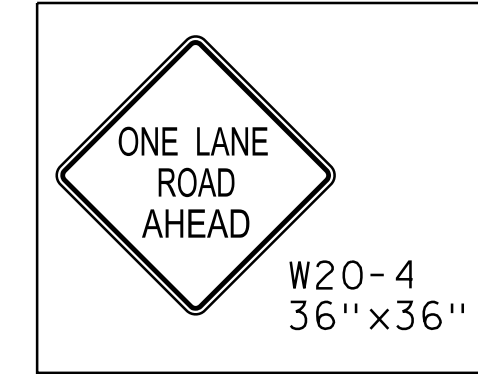
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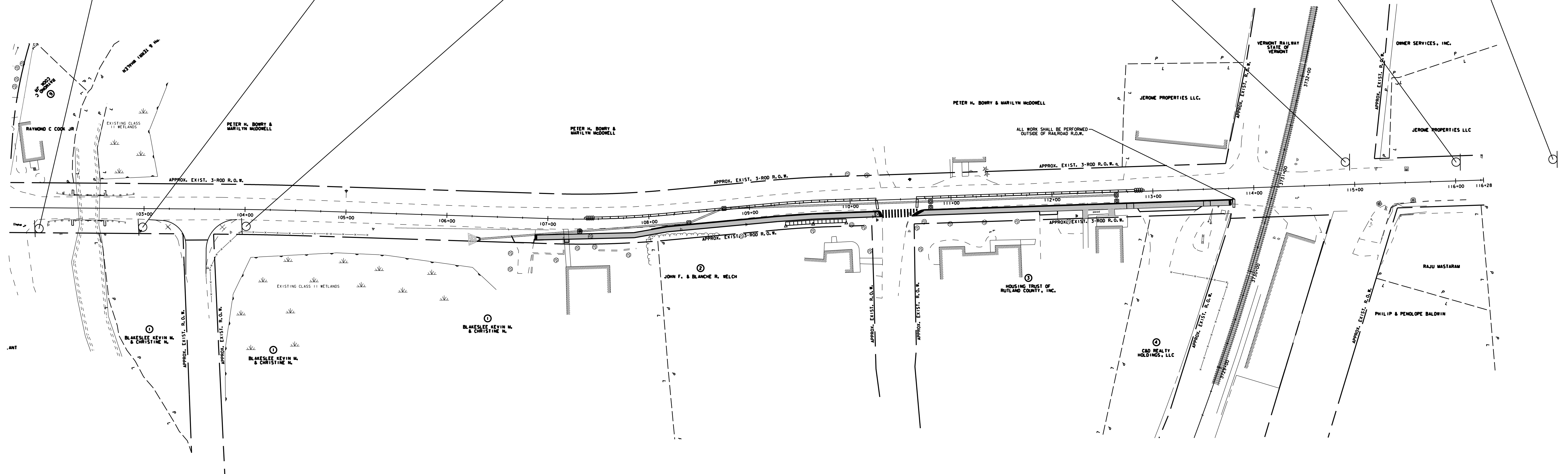
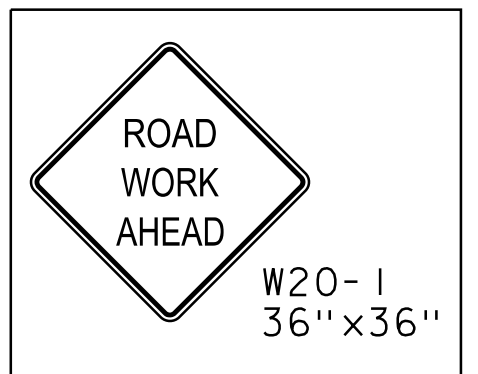
STA. 115+00 LT



STA. 116+00 LT



STA. 117+00 LT



PROJECT NAME: UNION STREET SIDEWALK  
PROJECT NUMBER: STP EH 05 (4)

FILE NAME: 619452.tc.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
CONSTRUCTION APPROACH SIGNING SHEET	SHEET 25 OF 26



CORRIDOR TRAFFIC CONTROL NOTES:

- THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC TRAFFIC CONTROL PLAN PER SUBSECTION 105.03 TO THE ENGINEER. CONSTRUCTION OPERATIONS SHALL NOT COMMENCE UNTIL THE PLAN HAS BEEN APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL INCLUDE A CONSTRUCTION SIGN PACKAGE FOR EXPECTED LANE CLOSURES, WORK ZONE SPEED REDUCTIONS AND PEDESTRIAN ACCESS. THE COST OF PREPARING THIS PLAN (AND MAKING CHANGES IF NECESSARY) WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 641.10, "TRAFFIC CONTROL". THE TRAFFIC CONTROL PLAN SHALL BE IN COMPLIANCE WITH VTRANS STANDARDS AND THE LATEST EDITION OF THE MUTCD. WHERE CONFLICTS EXIST, THE LATEST EDITION OF THE MUTCD SHALL GOVERN.
- THE BID PRICE FOR "TRAFFIC CONTROL", ITEM 641.10, SHALL INCLUDE ALL OF THE FOLLOWING, AS NEEDED: APPROACH AND ON-PROJECT CONSTRUCTION SIGNING, PORTABLE ARROW BOARDS, BARRELS, CONES, BARRICADES, TEMPORARY REGULATORY AND WARNING SIGNS, AND POSTS AS DETAILED IN VTRANS STANDARDS. ALL ADJUSTING, RELOCATING, AND REMOVING OF THESE DEVICES AS DIRECTED BY THE ENGINEER SHALL ALSO BE INCLUDED. THE FOLLOWING ITEMS WILL BE PAID FOR SEPARATELY: 630.15 - FLAGGERS.
- BARRELS, CONES, TEMPORARY TRAFFIC BARRIERS, AND ENERGY ABSORPTION ATTENUATORS SHALL BE USED TO CLEARLY DEFINE THE TRAVEL SPACE AND PROVIDE SEPARATION FROM THE WORK SPACE ALONG ITS ENTIRE LENGTH. REFLECTORIZED CONES WILL BE USED TO DELINEATE COMMERCIAL DRIVES WITHIN THE WORK ZONE.
- THE CONTRACTOR SHALL PROVIDE FLAGGERS FOR ONE LANE TRAFFIC CONTROL, AND AT LOCATIONS WHERE SIGHT DISTANCES ARE IMPAIRED BY CONSTRUCTION OPERATIONS OR OTHER SITUATIONS.
- FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER, OR IF THE ENGINEER DEEMS IT NECESSARY.
- STOP/SLOW PADDLES SHALL BE USED FOR ALL FLAGGING, AND SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE MUTCD.
- A MINIMUM LANE WIDTH OF 10 FT. SHALL BE MAINTAINED.
- THE CONTRACTOR SHALL PROVIDE ACCESS THROUGH THE WORK ZONE AND MAINTAIN ACCESS TO ALL PROPERTIES FOR EMERGENCY VEHICLES AT ALL TIMES OR COORDINATE EMERGENCY ROUTES.
- THE CONTRACTOR SHALL NOT PARK EQUIPMENT OR STORE MATERIAL WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.
- ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES SHALL BE MAINTAINED DURING BUSINESS HOURS. ACCESS TO RESIDENTIAL PROPERTIES MAY BE RESTRICTED FOR A SHORT DURATION (A FEW HOURS). THIS WORK SHALL BE COORDINATED WITH THE OWNER/TENANT. COORDINATE MAJOR WORK ON COMMERCIAL OR MUNICIPAL ACCESSES WITH THE OWNER AT LEAST ONE WEEK PRIOR TO STARTING THE WORK. ALL ACCESSES SHALL ALSO BE KEPT FREE OF WORK AND TRAFFIC CONTROLLED BY UNIFORMED TRAFFIC OFFICERS OR FLAGGERS AS REQUIRED BY THE ENGINEER.
- SEE VAOT STANDARD T-10 FOR ADDITIONAL SIGN PLACEMENT DETAILS.
- TRAFFIC SHALL NOT BE CHANGED FROM ONE TRAFFIC PATTERN TO THE NEXT TRAFFIC PATTERN UNTIL SIGNING WORK IS COMPLETED.
- THE CURRENT EDITION OF THE MUTCD AND ITS LATEST REVISIONS SHALL BE THE STANDARD FOR ALL TRAFFIC CONTROL DEVICES. EXISTING SIGNS AND MARKINGS SHALL BE VALID UNTIL SUCH TIME AS THEY ARE REPLACED OR RECONSTRUCTED. WHEN NEW TRAFFIC CONTROL DEVICES ARE ERECTED OR PLACED, OR EXISTING TRAFFIC CONTROL DEVICES ARE REPLACED OR REPAIRED, THE EQUIPMENT, DESIGN, METHOD OF INSTALLATION, PLACEMENT OR REPAIR SHALL CONFORM WITH SUCH STANDARDS.
- NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
- ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED, THE PAYMENT FOR WHICH SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 TRAFFIC CONTROL.
- CONSTRUCTION SIGNS SHALL BE IN NEW OR LIKE NEW CONDITION PER VAOT STANDARDS.
- FOR TRAFFIC CONTROL GENERAL NOTES, SEE VAOT STANDARD T-1.
- DIAMOND SHAPED SIGNS SHALL BE 36"x36" WITH BLACK TEXT AND BORDER ON A RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND.
- ACCOMMODATIONS FOR POSTAL DRIVERS, NEWSPAPER ROUTES, DELIVERY SERVICES AND/OR TRASH SERVICES THAT ARE INTERRUPTED BY THE PROJECT OR DETOUR SHALL BE COORDINATED BY THE CONTRACTOR.
- IF USED, ROADWAY FLAGGER PERSONNEL WILL BE USED TO HOLD AND RELEASE TRAFFIC. ROADWAY FLAGGERS WILL HAVE RECEIVED 4 HOURS OF TRAINING AND SHALL BE CERTIFIED PRIOR TO PERFORMING WORK ON THE PROJECT AND SHALL USE MUTCD COMPLIANT HIGH VISIBILITY APPAREL, SIGN PADDLES, AND TWO WAY RADIOS FOR COMMUNICATION.
- ALTHOUGH THERE ARE NO KNOWN SCHOOL BUS STOP LOCATIONS LOCATED WITHIN THE PROJECT SITE, WHEN SCHOOL IS IN SESSION SCHOOL BUS STOP ACCOMMODATIONS ARE REQUIRED. LOCATIONS SHALL BE COORDINATED WITH THE LOCAL SCHOOL TRANSPORTATION COORDINATOR.
- THE CONTRACTOR SHALL PROVIDE BARRICADES BETWEEN THE PROJECT AND TRAVELED PORTION OF THE ROADWAY WHILE CONSTRUCTION FOR THE STORMWATER SYSTEM IS UNDERWAY OR IF OPEN EXCAVATION IS ADJACENT TO TRAVEL LANES.
- SIGN LOCATIONS ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AND SHALL MEET MUTCD REQUIREMENTS.
- WHEN TYPE III BARRICADES ARE USED NEAR DRIVEWAYS OR INTERSECTIONS, THEY SHALL BE PLACED IN SUCH A WAY AS TO NOT OBSTRUCT SIGHT DISTANCE.
- TERMINALS OF TEMPORARY TRAFFIC BARRIERS SHALL BE EXTENDED BEYOND THE CLEAR ZONE WHEN POSSIBLE. IF TERMINALS CAN NOT BE EXTENDED PAST THE CLEAR ZONE, THEN ENERGY ABSORPTION ATTENUATORS SHALL BE USED.
- CONCRETE BARRIERS SHALL BE UTILIZED WHERE SEPARATION CAN NOT BE MAINTAINED BETWEEN LOCAL TRAFFIC ROUTES AND CONSTRUCTION OPERATIONS/EQUIPMENT OR DROP OFFS. INSTALL ENERGY ABSORPTION ATTENUATORS WHEN BARRIER ENDS CANNOT BE LOCATED OUTSIDE OF THE CLEAR ZONE. CONCRETE BARRIER SIDE EXPOSED TO TRAFFIC SHALL BE DELINEATED. REFLECTORS SHALL BE MOUNTED EVERY 20 FEET ALONG THE SIDE OF THE BARRIER EXPOSED TO TRAFFIC, WITH YELLOW ON THE DRIVER'S LEFT AND WHITE ON THE DRIVER'S RIGHT.

PEDESTRIAN NOTES

- THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6.
- PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES, COMMERCIAL PROPERTIES AND TRANSIT STOPS. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
- IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE MUST BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE FIRM, STABLE AND SLIP-RESISTANT AND CONTINUOUS WITH A MINIMUM OF 80 INCHES OVERHEAD CLEARANCE FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
- WHEN TEMPORARY CROSSWALKS ARE UTILIZED FOR THE TPAR, TEMPORARY DETECTABLE WARNINGS SHALL BE PLACED AT EACH END OF THE TEMPORARY CROSSWALKS. THE TEMPORARY CROSSWALK SHALL BE DELINEATED WITH TEMPORARY PAVEMENT MARKINGS OR TAPE. THE MARKINGS SHALL BE PARALLEL 12-INCH-WIDE WHITE LINES PLACED 7 FEET ON CENTER APART. IT SHOULD BE NOTED THAT CURB PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF MIDBLOCK CROSSWALKS. TEMPORARY CROSSWALK SIGNS SHALL BE PROVIDED FOR THE CROSSWALK.
- IF THERE IS WORK OCCURRING OVER AN OPEN SIDEWALK, PROTECTIVE OVERHEAD COVERING MUST BE PROVIDED AS NECESSARY TO ENSURE PROTECTION FROM FALLING OBJECTS AND DRIPPING FROM OVERHEAD STRUCTURES. COVERED WALKWAYS SHOULD BE STURDILY CONSTRUCTED AND ADEQUATELY LIGHTED FOR NIGHT TIME USE.
- INDIVIDUAL CHANNELIZING DEVICES, TAPE, OR ROPE USED TO CONNECT INDIVIDUAL DEVICES AND OTHER DISCONTINUOUS BARRIERS AND DEVICES, PAVEMENT MARKINGS ARE NOT DETECTABLE BY PERSONS WITH VISUAL DISABILITIES. THESE MEASURES DO NOT PROVIDE ACCEPTABLE PATH GUIDANCE ON TEMPORARY OR REALIGNED SIDEWALKS OR OTHER PEDESTRIAN FACILITIES. PEDESTRIAN CHANNELIZING DEVICES SHALL INCLUDE A CONTINUOUSLY DETECTABLE BOTTOM AND TOP EDGE THROUGHOUT THE LENGTH OF THE FACILITY SUCH THAT IT CAN BE FOLLOWED BY PEDESTRIANS USING LONG CANES FOR GUIDANCE.
- CHANNELIZING DEVICES ON BOTH SIDES OF THE TPAR SHALL INCLUDE CONTINUOUS SOLID TOP AND BOTTOM RAILS. THE TOP EDGE OF THE TOP RAIL SHALL BE BETWEEN 32 INCHES AND 38 INCHES ABOVE THE GROUND LEVEL. THE BOTTOM RAIL SHALL BE AT LEAST 6 INCHES WIDE, WITH THE BOTTOM EDGE OF THE BOTTOM RAIL SURFACE NO HIGHER THAN 2 INCHES ABOVE THE GROUND.
- IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASHWORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
- THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT, OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
- PROVISIONS OF THE TPAR AND ALL ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO SIGNS, CHANNELIZING DEVICES, BARRICADES, TEMPORARY CURB RAMPS, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES IS TO BE PAID FOR INCIDENTAL TO ITEM 641.10 "TRAFFIC CONTROL".

FINAL – NOT FOR CONSTRUCTION

PROJECT NAME: UNION STREET SIDEWALK	
PROJECT NUMBER: STP EH 05 (4)	
FILE NAME: 419452_tc-notes.dgn	PLOT DATE: 4/24/2019
PROJECT LEADER: D. CONGER	DRAWN BY: P. DAY
DESIGNED BY: P. DAY	CHECKED BY: D. CONGER
TRAFFIC CONTROL NOTES SHEET	SHEET 26 OF 26