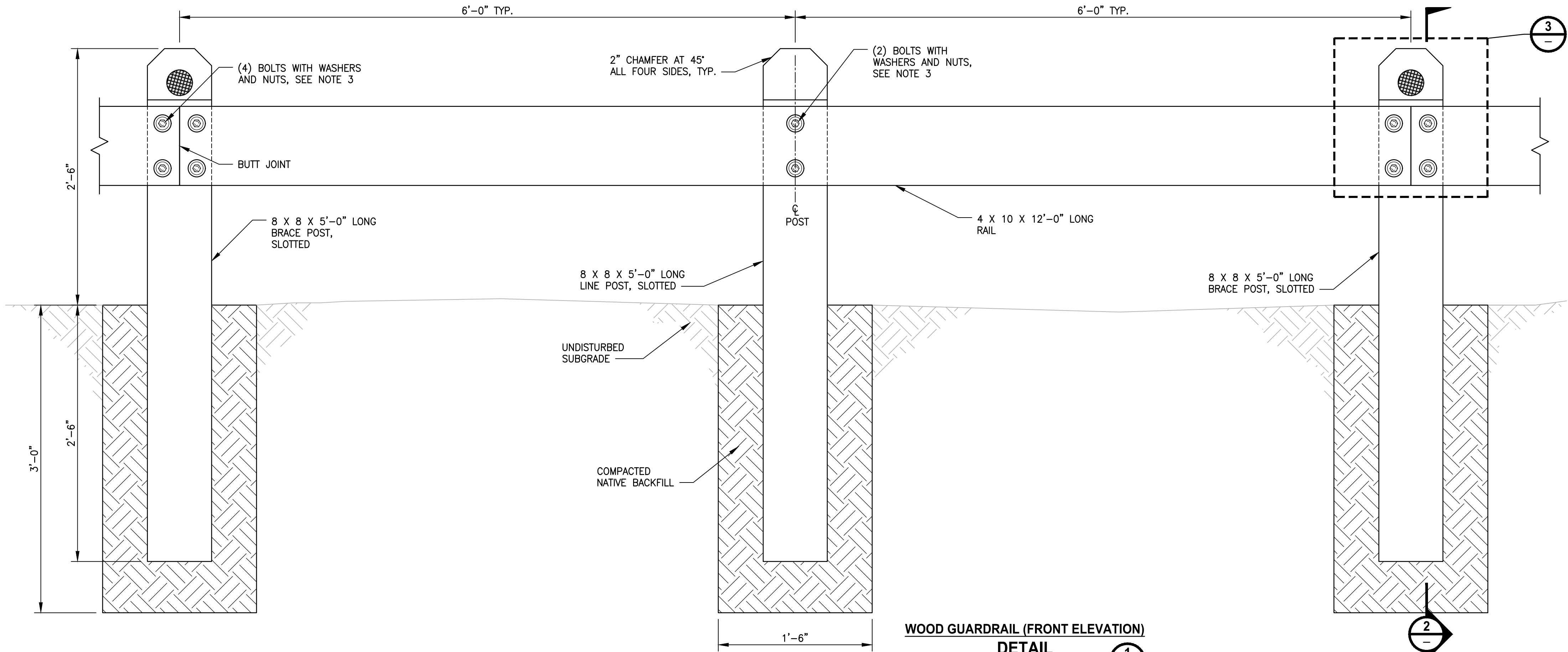


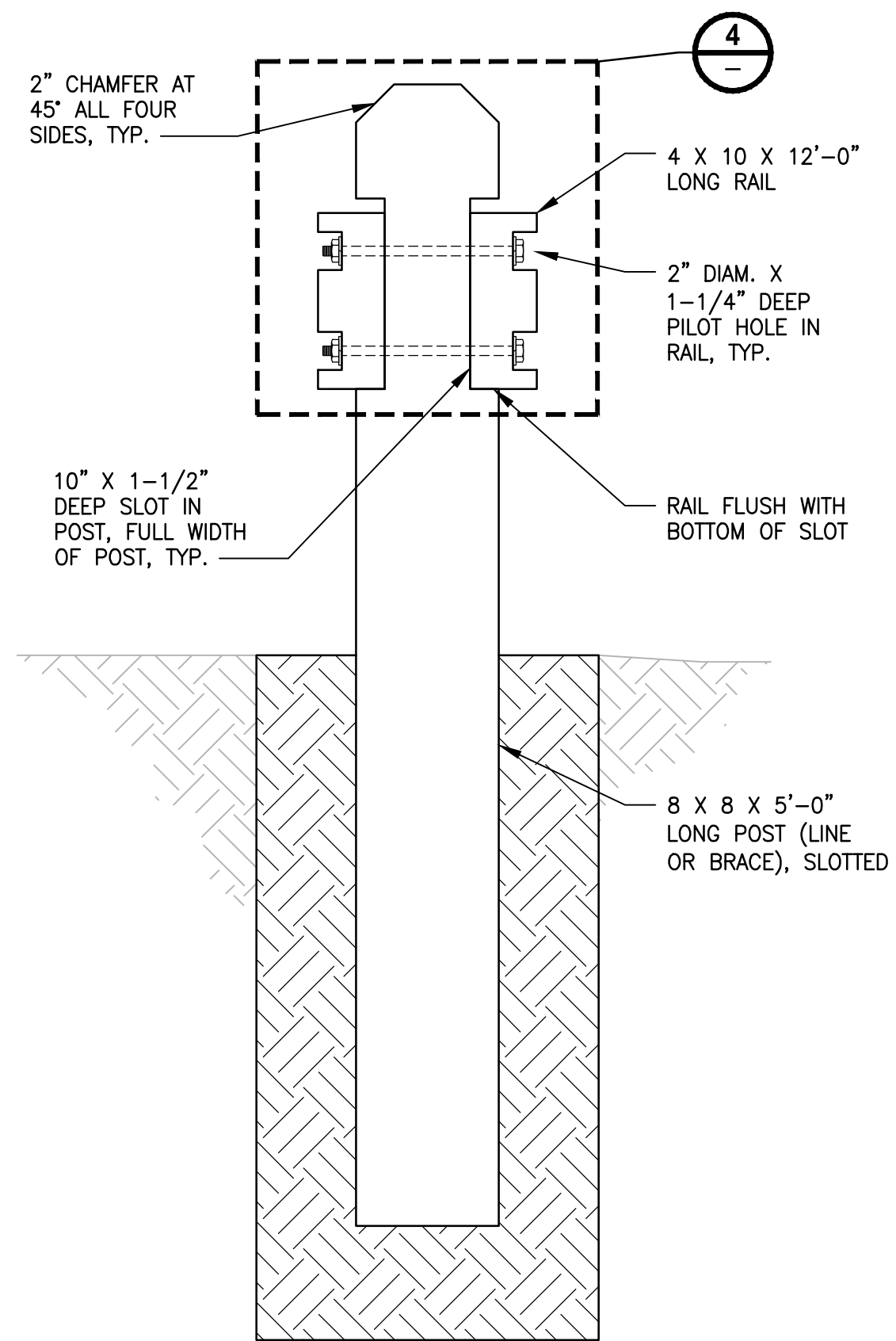
PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\98Specs\CADD\Phase 19\T03 Civil\DWG\ PLOTTED BY: purganb DATE: Wednesday, February 27, 2019 9:28:18 PM LAYOUT: MD2



WOOD GUARDRAIL (FRONT ELEVATION)

DETAIL 1

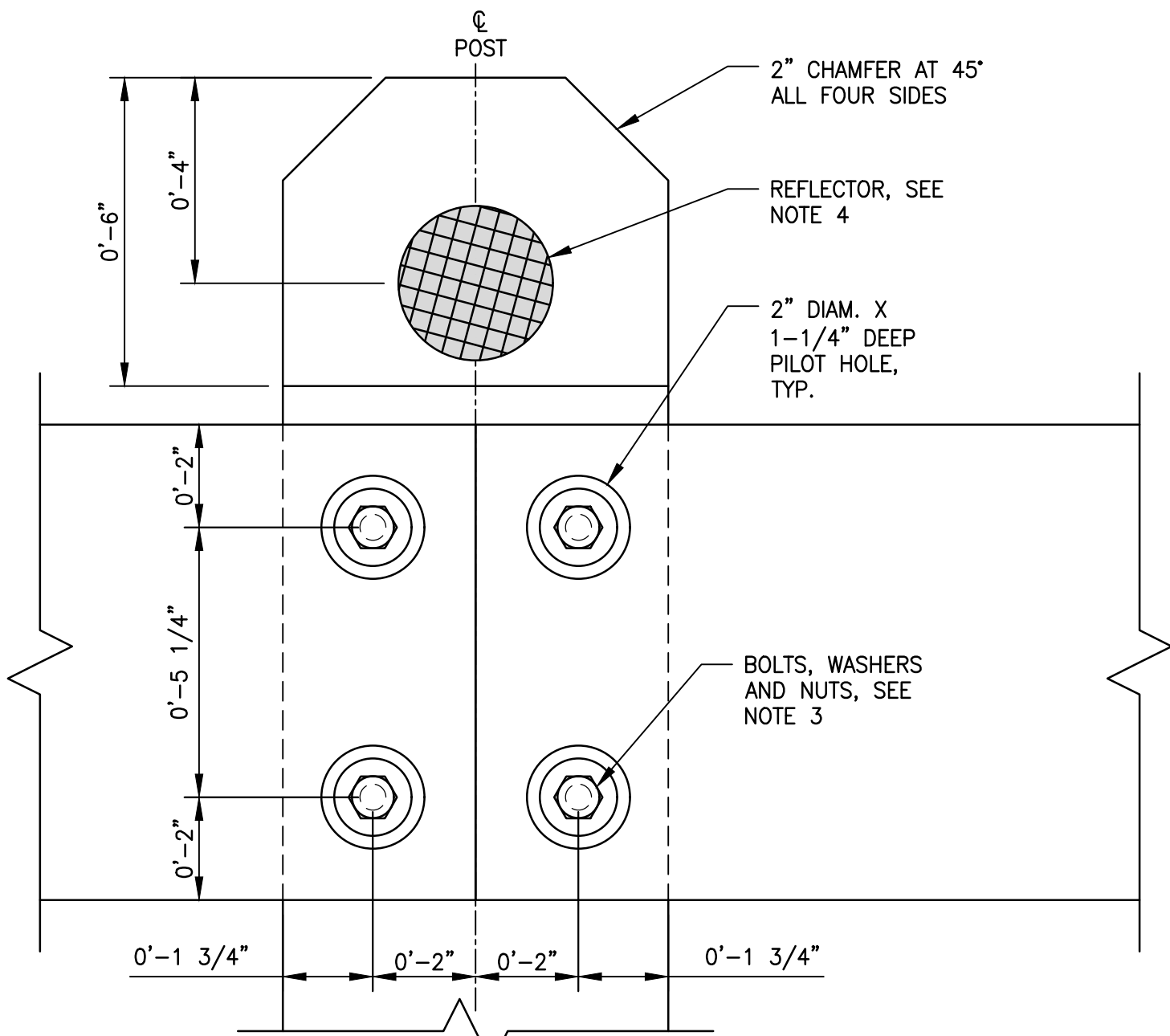
NOT TO SCALE



WOOD GUARDRAIL (SIDE ELEVATION)

DETAIL 2

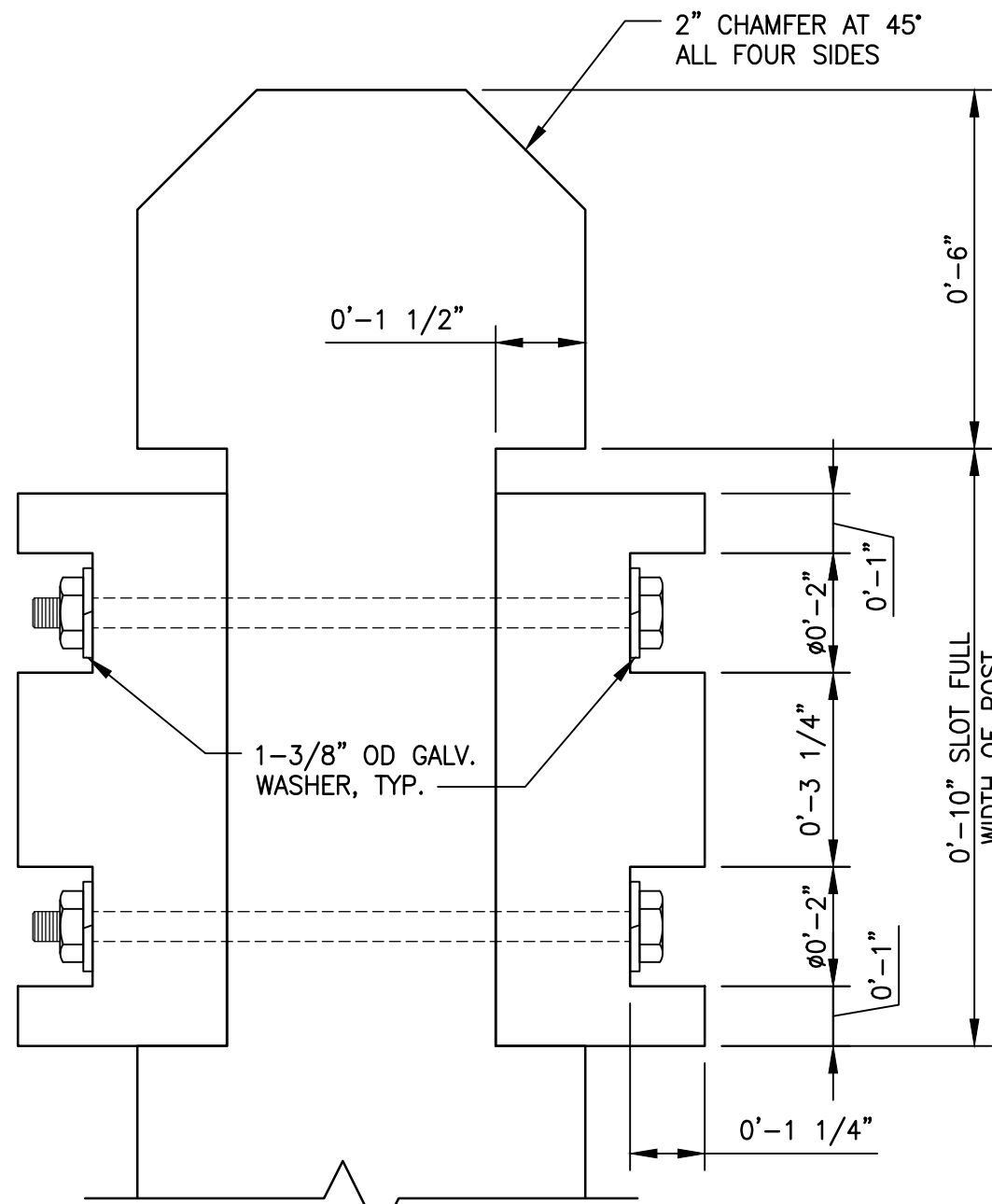
NOT TO SCALE



ASSEMBLY (DETAIL)

DETAIL 3

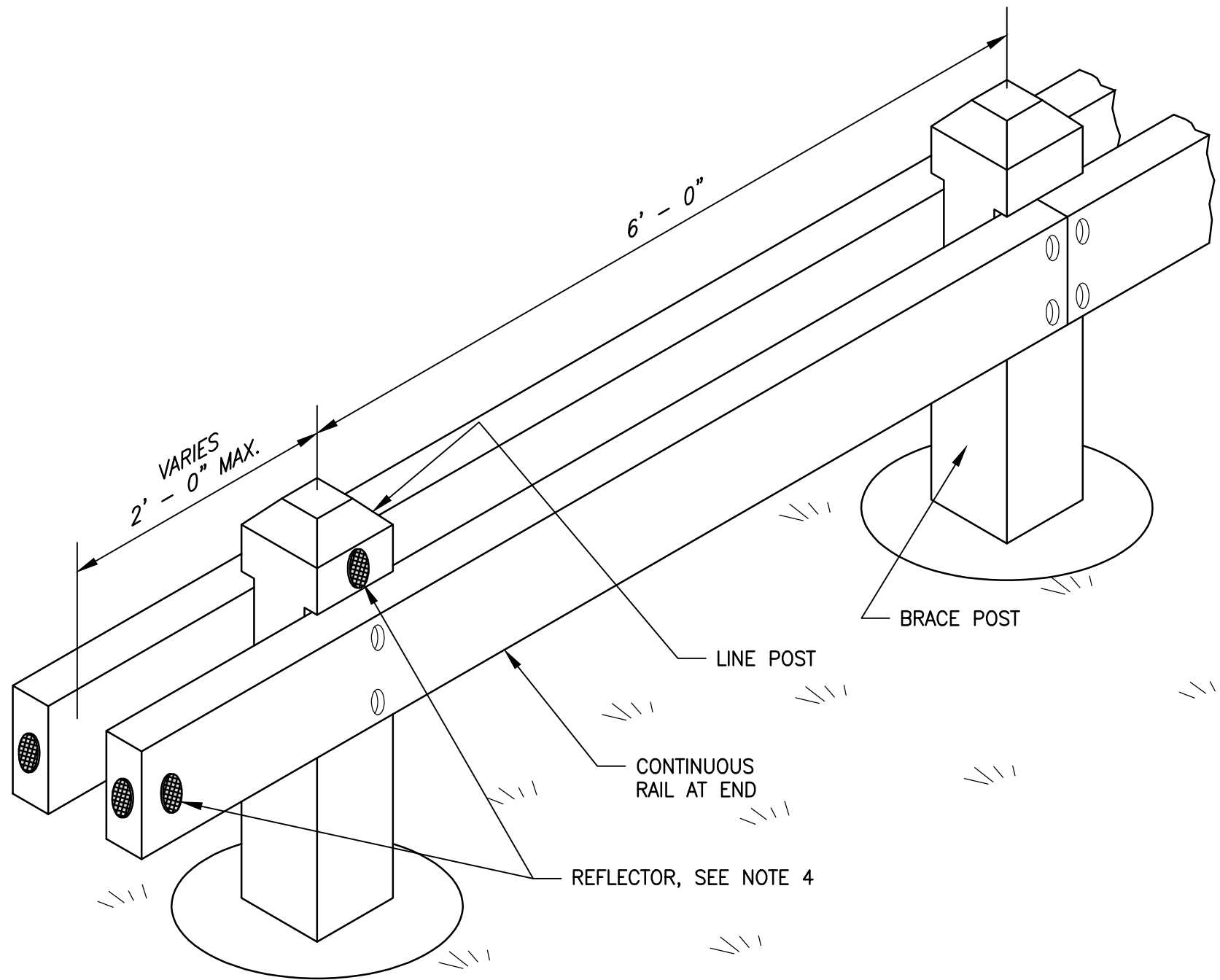
NOT TO SCALE



ASSEMBLY (ELEVATION)

DETAIL 4

NOT TO SCALE



END RAIL (ISOMETRIC)

DETAIL 5

NOT TO SCALE

NOTES:

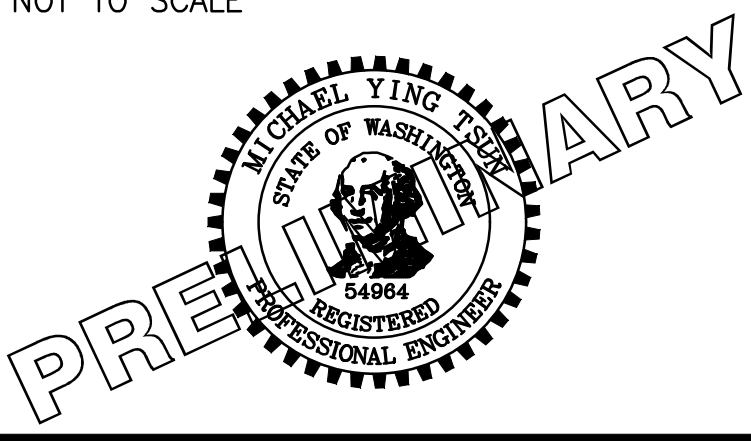
- ALL BOARDS AND POSTS SHALL BE PRESSURE TREATED HEMLOCK, PRESSURE TREATED DOUGLAS FIR, OR UNTREATED CEDAR LUMBER. TREATMENT SHALL CONFORM TO WSDOT STANDARD SPECIFICATION 9-09.3.
- SET POSTS PLUMB.
- BOLTS SHALL BE 5/8" X 10" LONG GALV. HEX BOLT AND NUT WITH (2) 1-3/8" OUTSIDE DIAMETER GALV. WASHERS, EACH SIDE.
- INSTALL 3" DIAMETER RED REFLECTIVE BUTTONS USING SCREWS AND BOLTS ON FRONT AND BACK OF EVERY OTHER POST AND ON END RAIL AS SHOWN IN PLANS.

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY.
FILE NAME
BL1521075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



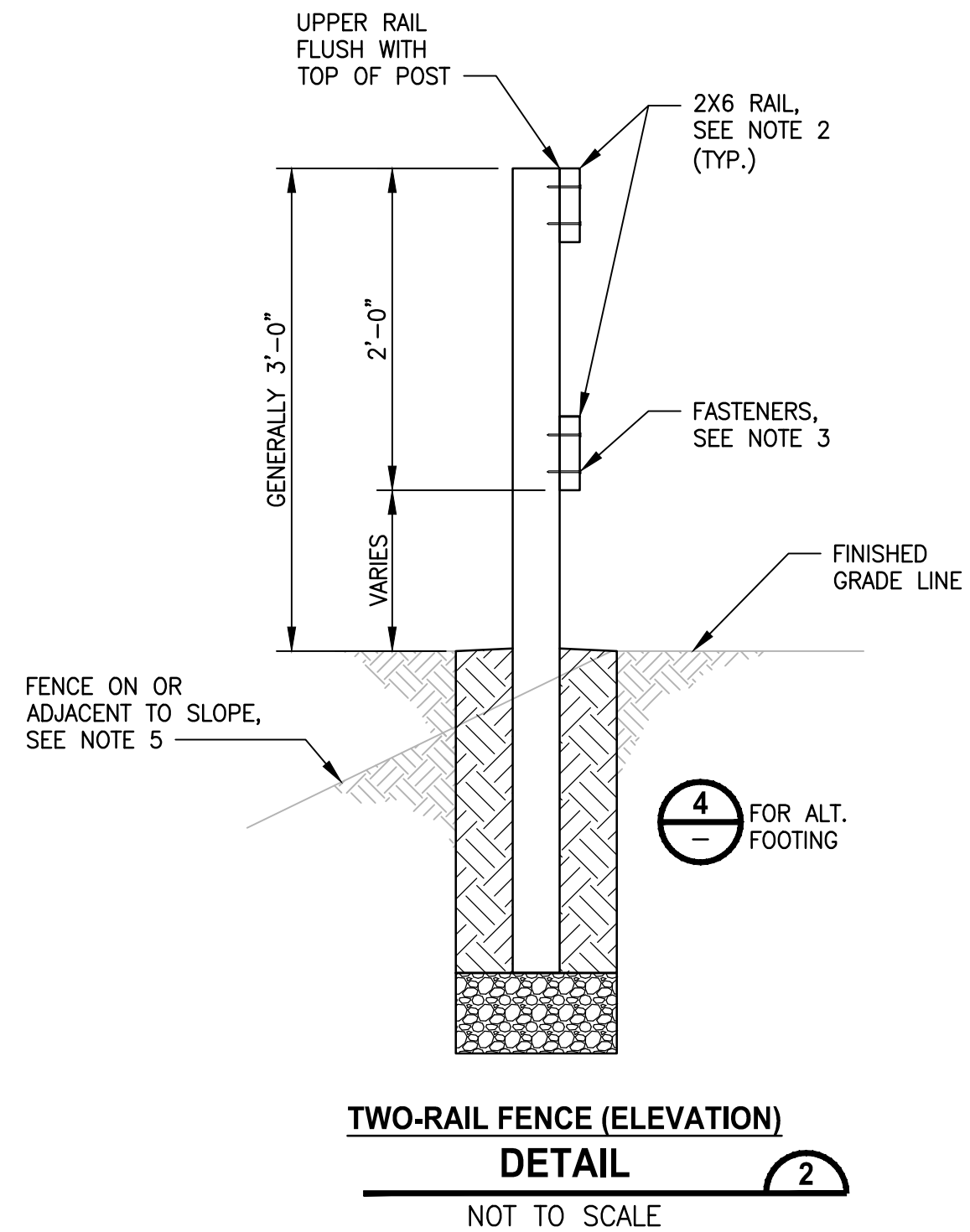
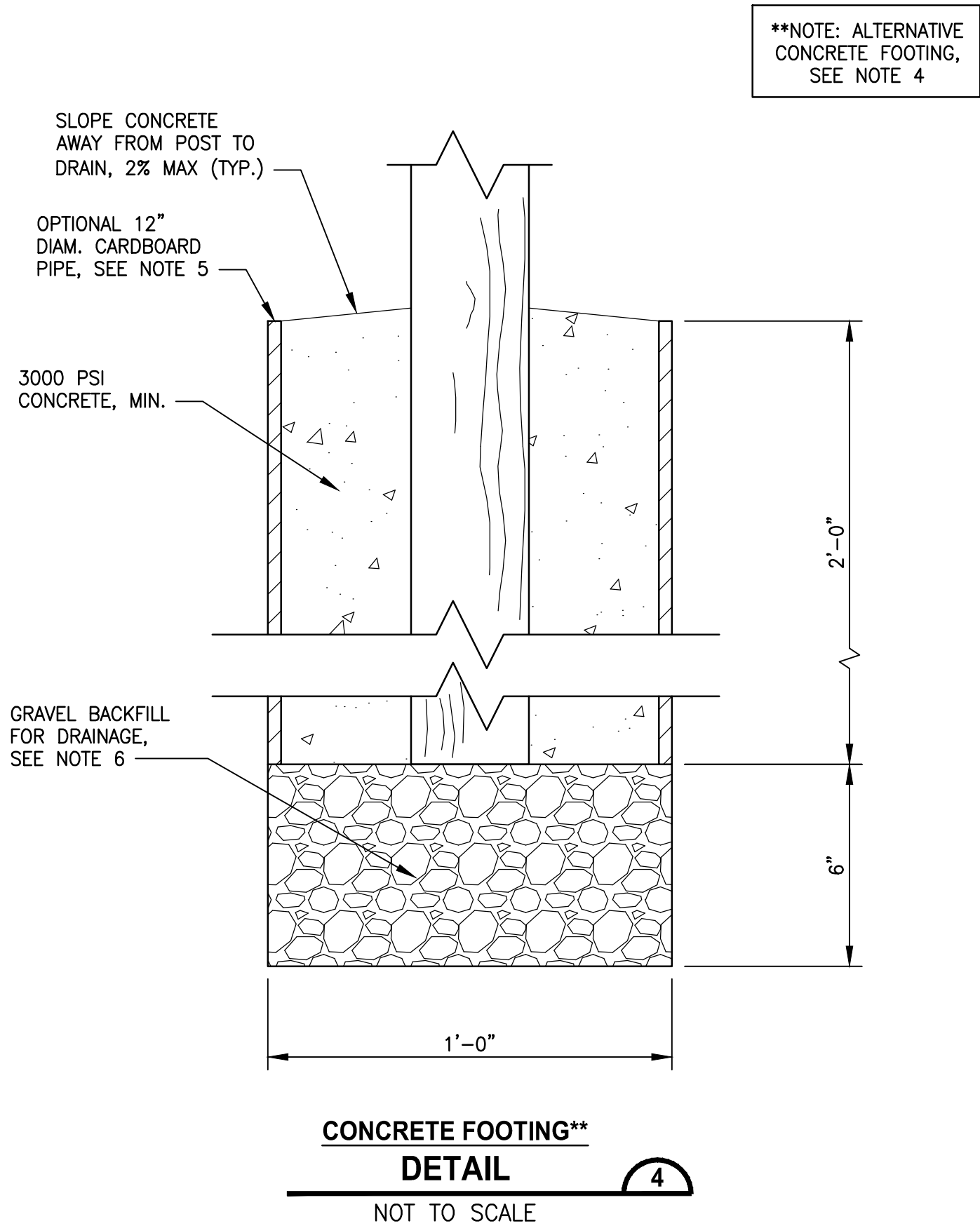
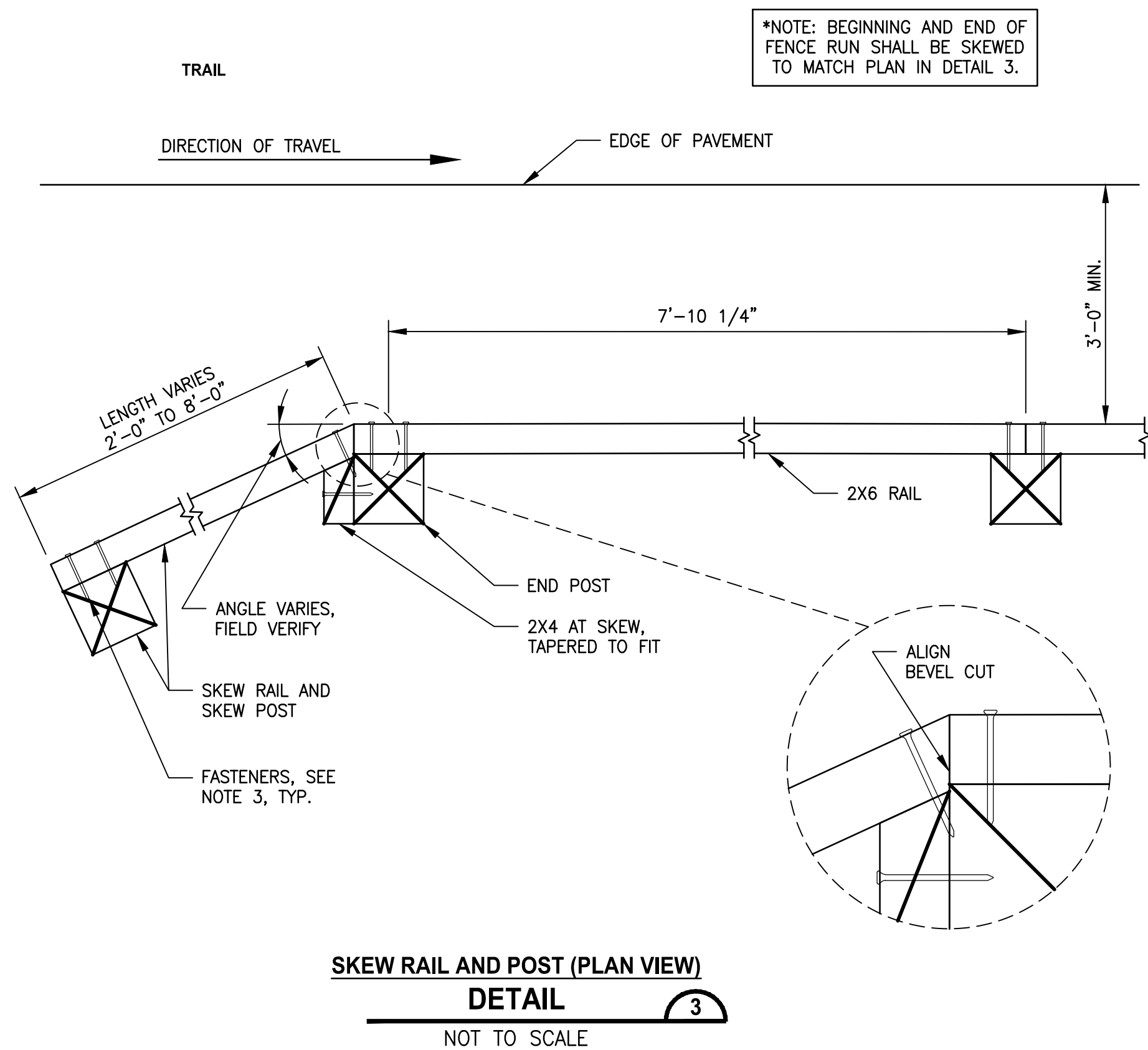
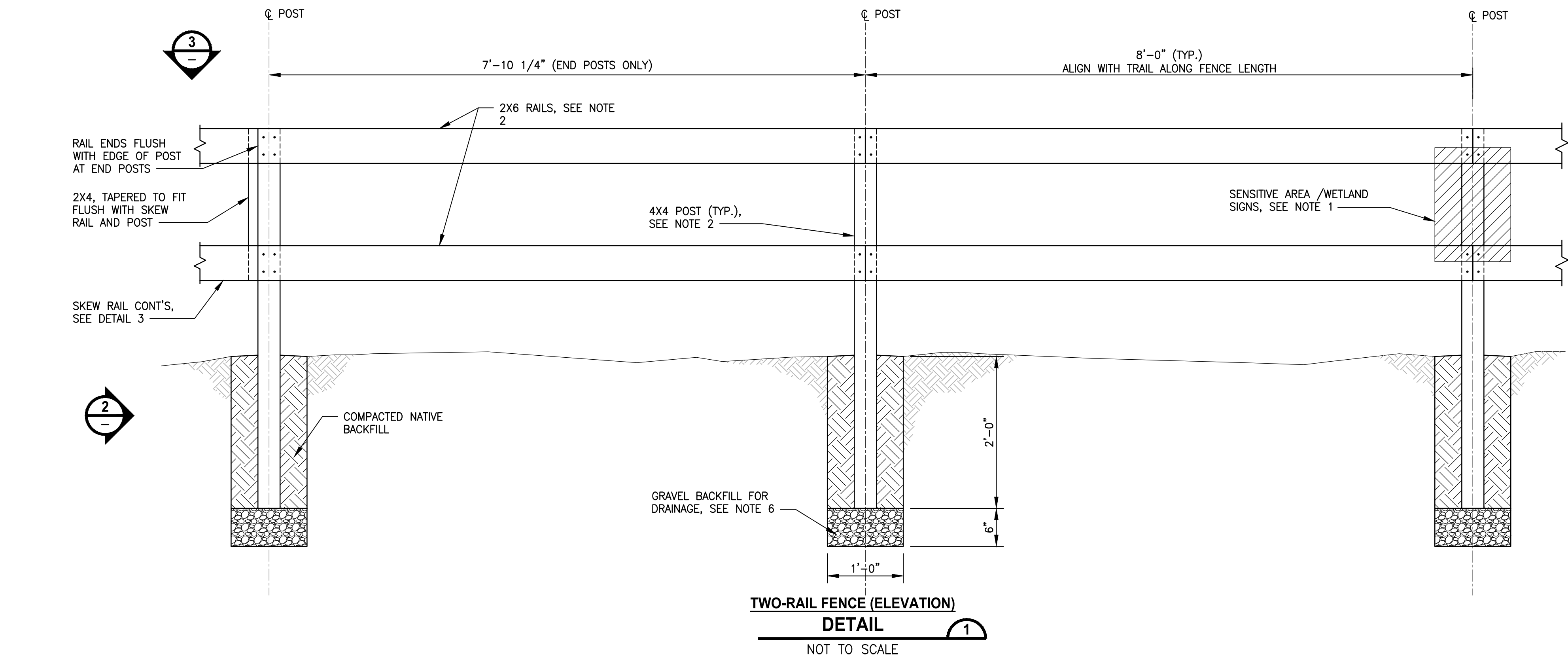
Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
719 2ND AVENUE, SUITE 200 SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
238 OF 274
MD2

LAYOUT: MD3
PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\98Sves\CADD\Phase 19\T03 Civil\DWg\ PLOTTED BY: purgaban DATE: Wednesday, February 27, 2019 9:28:22 PM



NOTES:

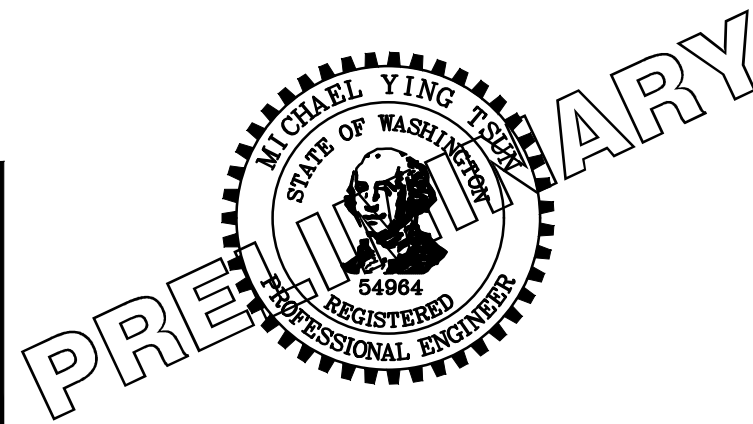
1. SENSITIVE AREA/WETLAND SIGNS SHALL BE MOUNTED ON SAWN LUMBER FENCE POST EVERY 100 FEET. MOUNT SIGN TO POST USING (2) 1/4" x 2" LONG GALVANIZED STEEL LAG SCREWS WITH GALVANIZED STEEL WASHERS. MINIMUM (2) SIGNS PER FENCE RUN.
2. ALL BOARDS AND POSTS SHALL BE UNTREATED CEDAR LUMBER.
3. ALL WOOD FASTENERS SHALL BE 3 1/2" LONG, #9 STAR DRIVE FLAT HEAD STAR DRIVE POLYMER COATED DECK SCREWS.
4. FENCE POST SHALL BE INSTALLED EITHER IN NATIVE BACKFILL (DETAIL 1, 2) OR IN CONCRETE FOOTING (DETAIL 4) DEPENDING ON NEED PER KC PARKS ENGINEER'S DIRECTION.
5. FENCE INSTALLED ON OR ADJACENT TO A SLOPE SHALL UTILIZE 12" DIAM. CARDBOARD PIPE PER KC PARKS ENGINEER'S DIRECTION.
6. GRAVEL BACKFILL FOR DRAINAGE TO BE USED WHERE ALLOWABLE PER KC PARKS ENGINEER'S DECISION. GRAVEL BACKFILL FOR DRAINS SHALL CONFORM TO WSDOT STANDARD SPEC 9-03.12(4).

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



Parametrix ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES
719 2ND AVENUE, SUITE 200 SEATTLE, WA 98104 P 206.394.3700 WWW.PARAMETRIX.COM

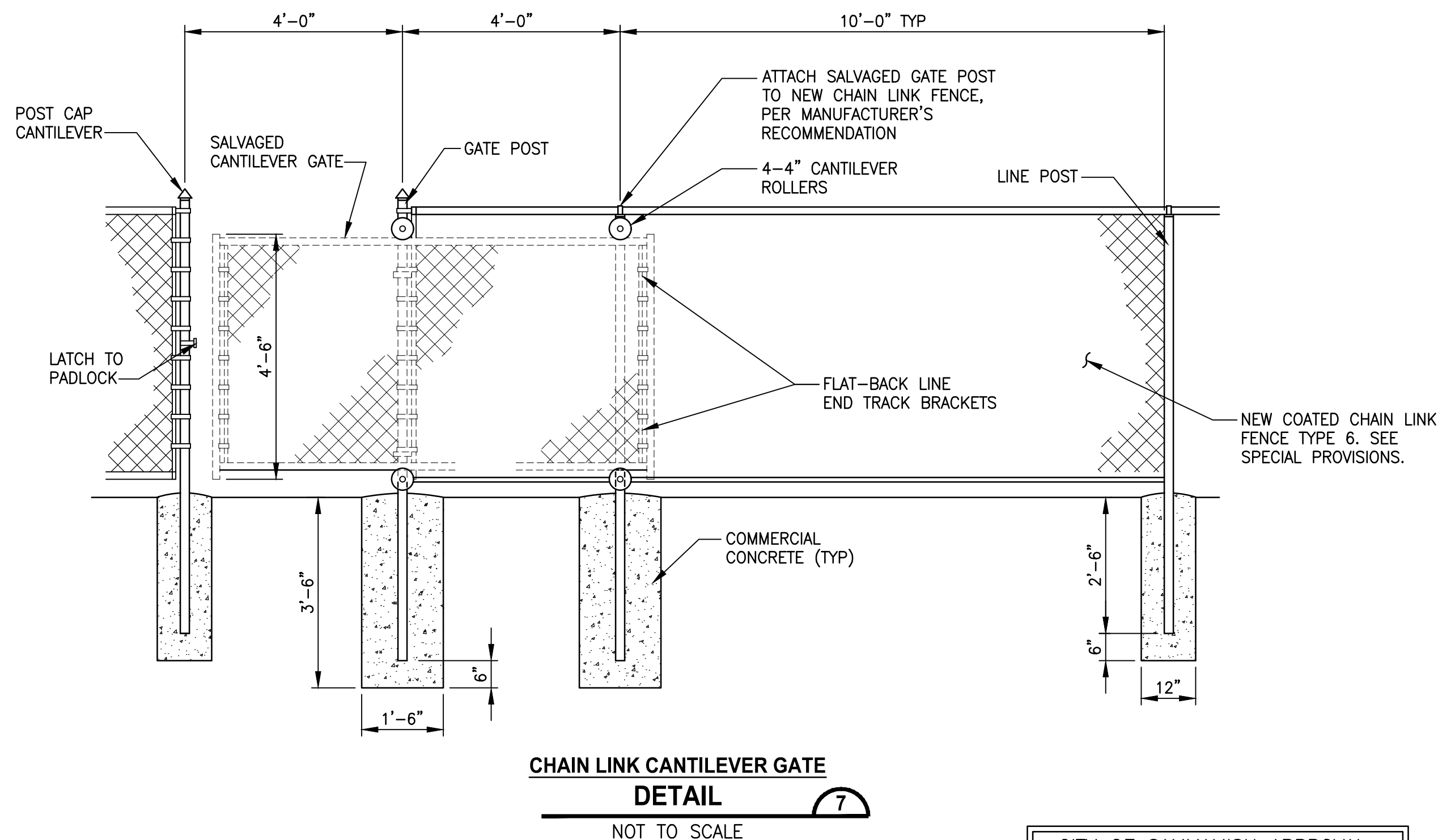
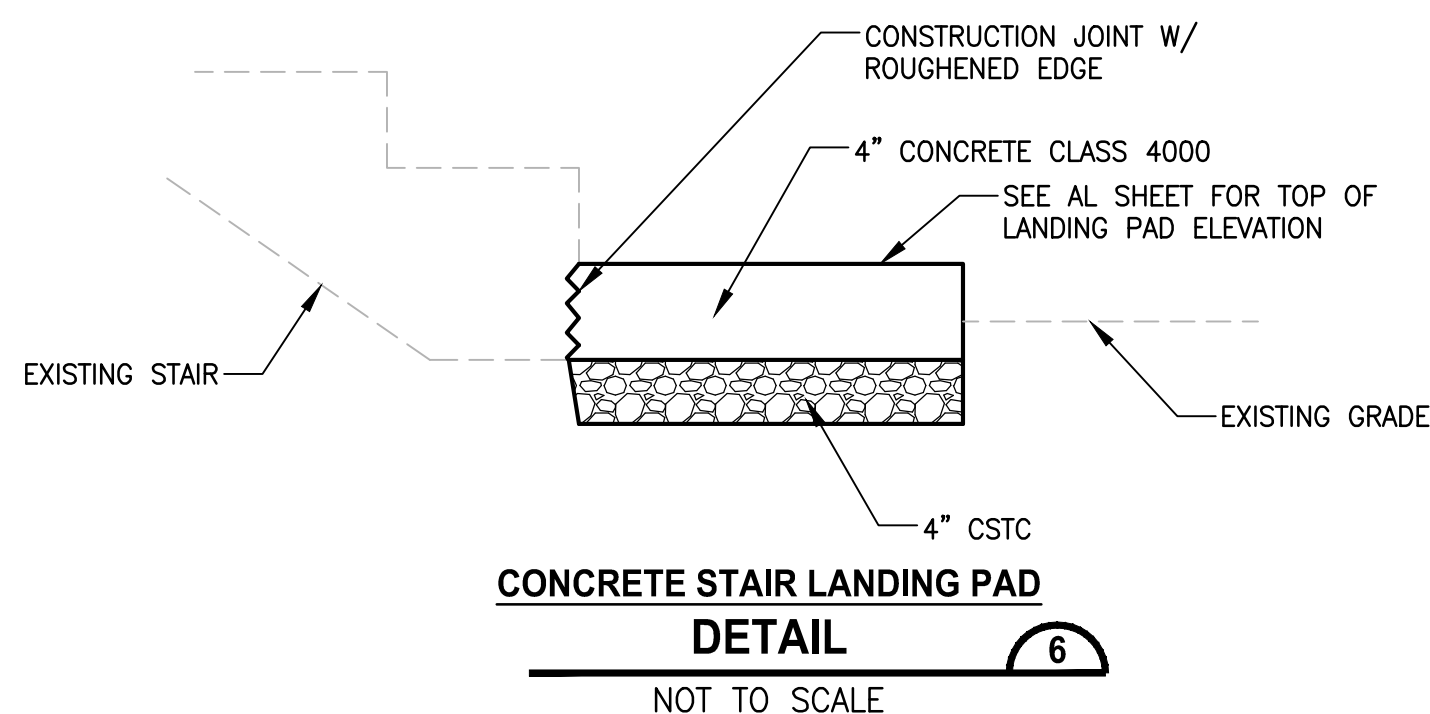
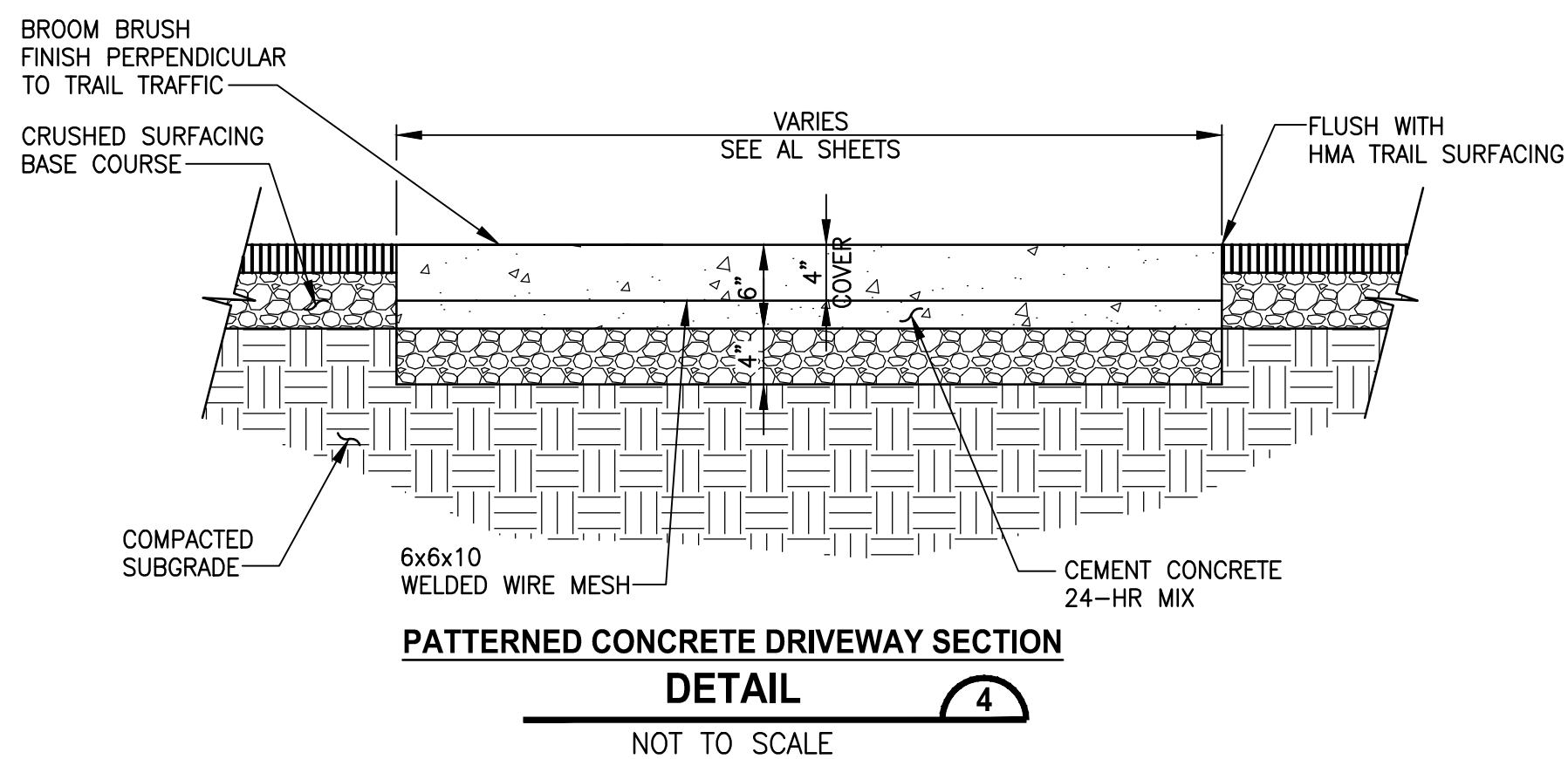
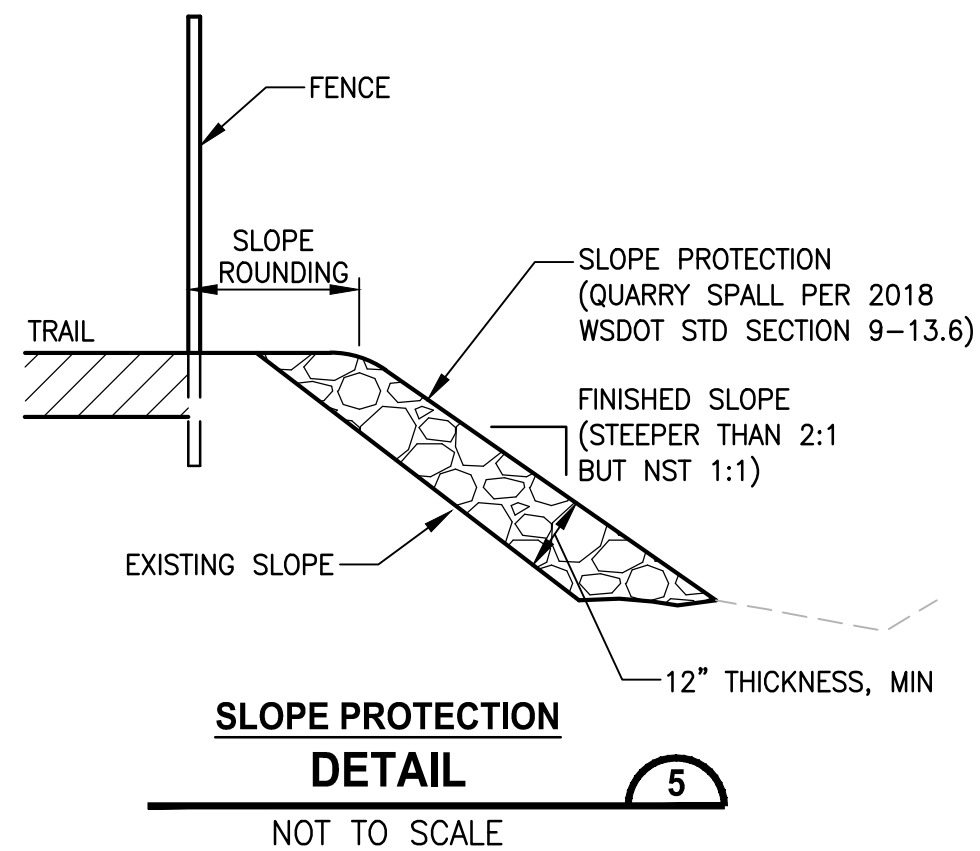
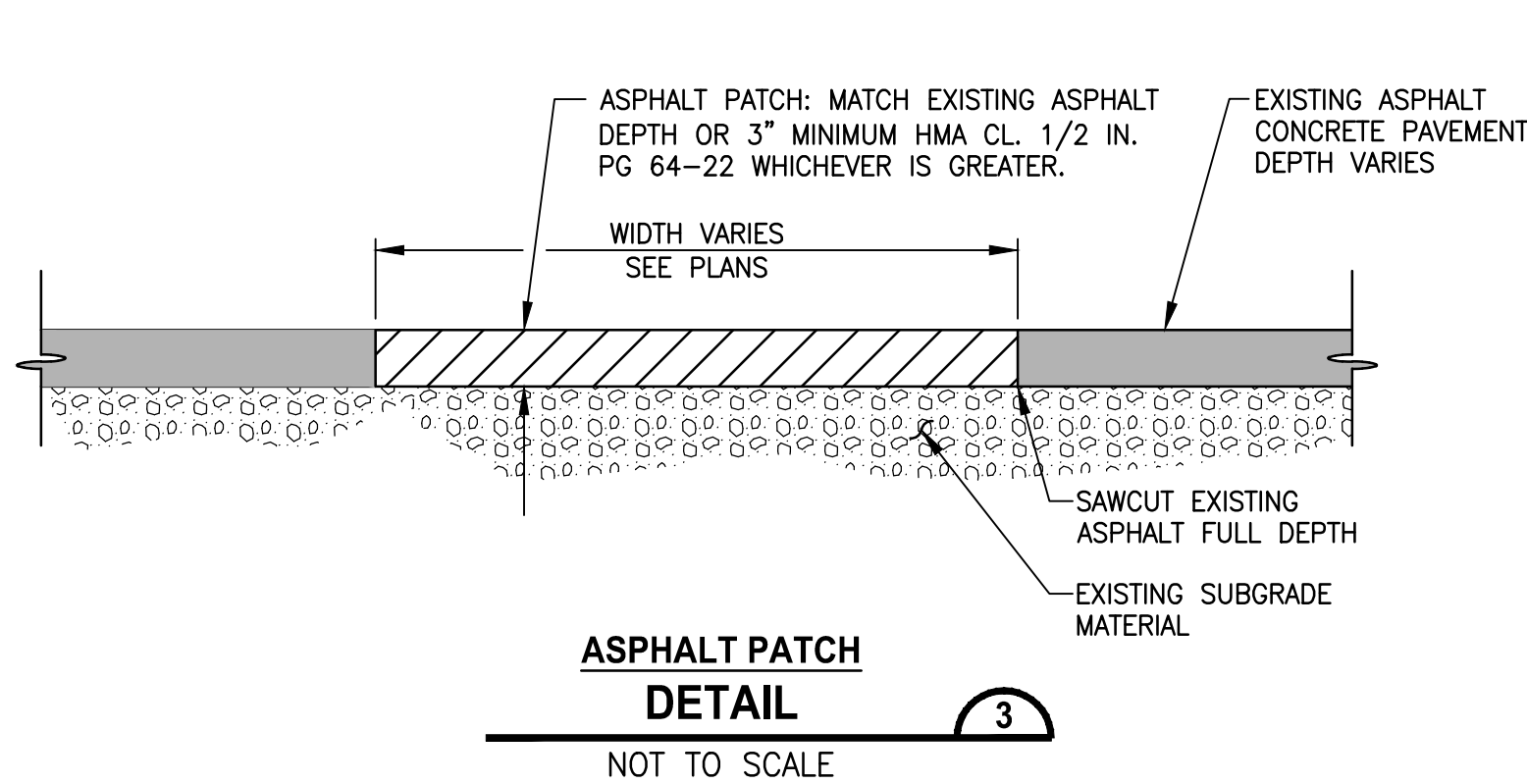
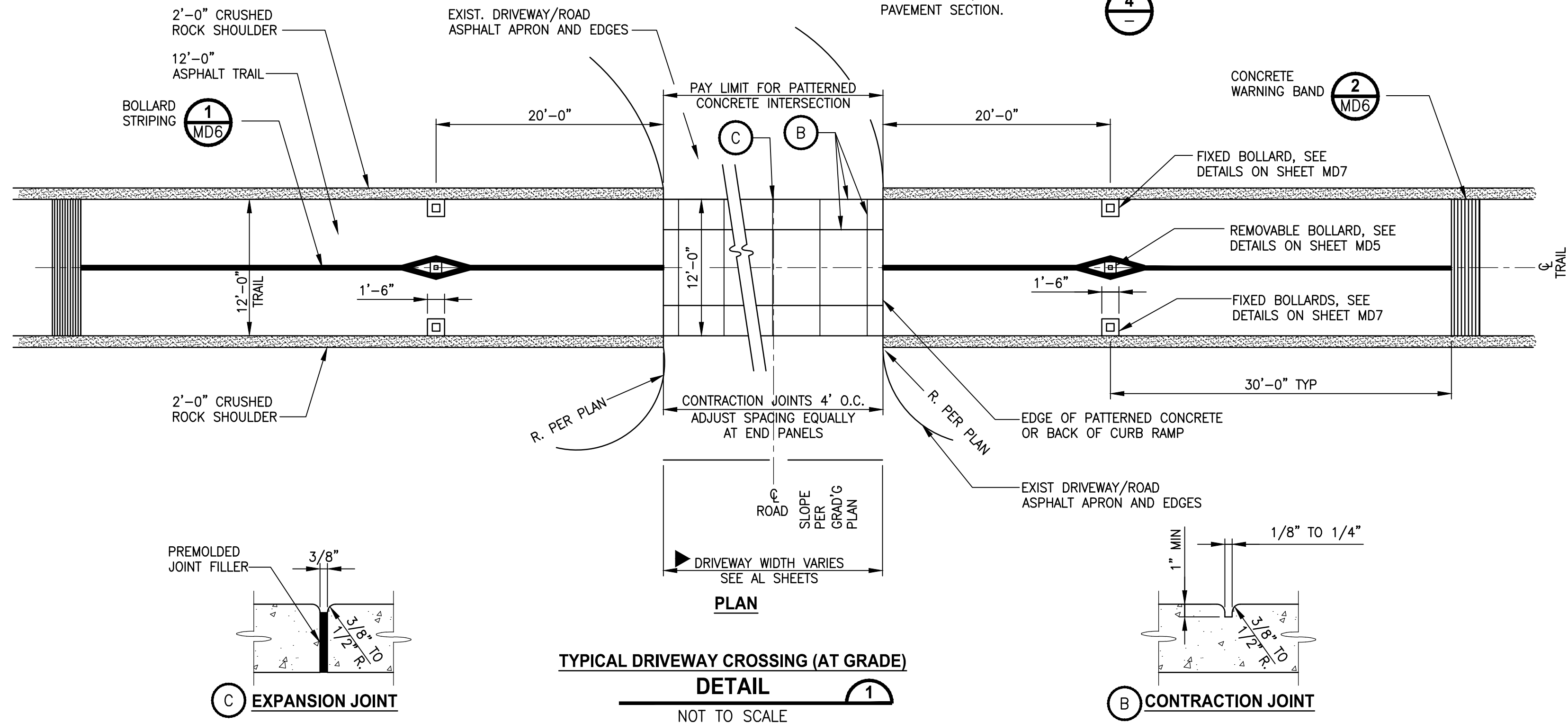
PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO. 239 OF 274
MD3

LAYOUT: MD4 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\99Svcs\CADD\Phase 19\T03 Civil\DWG\ PLOTTED BY: purgaban DATE: Wednesday, February 27, 2019 9:28:28 PM

- NOTES:
1. EXPANSION JOINT ALONG DRIVEWAY CENTERLINE.
15' MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'.
 2. 4" WIDE SMOOTH TROWELED PERIMETER FOR EACH 4'x4' SQUARE PATTERN. SEE  FOR PAVEMENT SECTION.

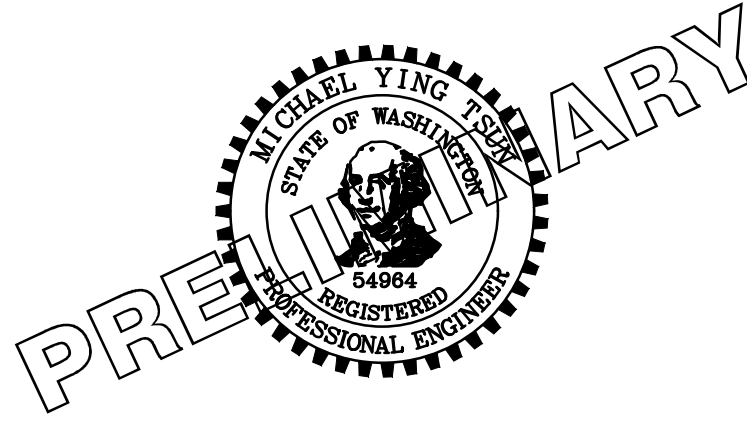


CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			CHECKED Y. HO
			APPROVED J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03MD-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019



Parametrix
ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

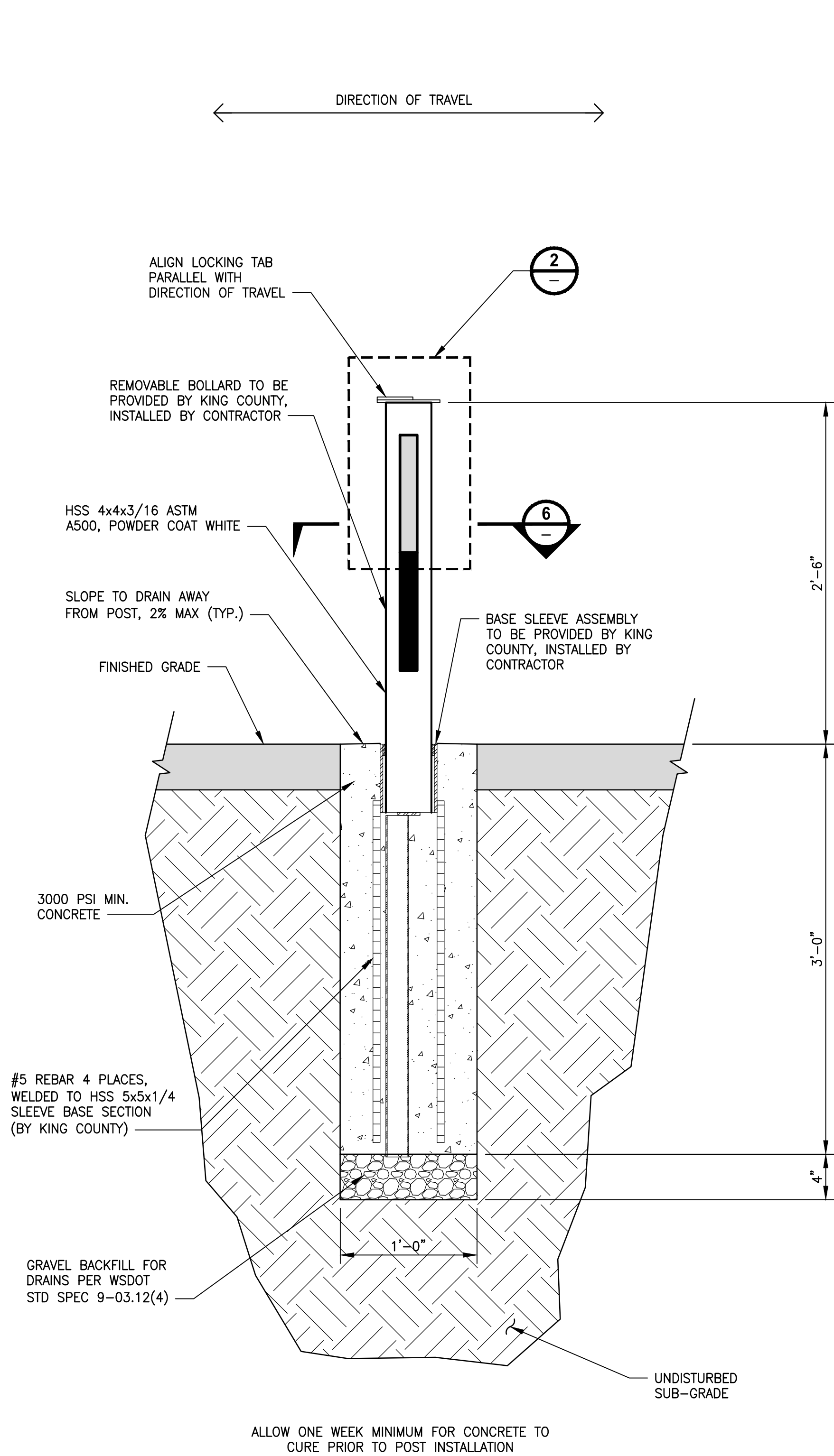
SAMMAMISH, WA

MISCELLANEOUS DETAILS

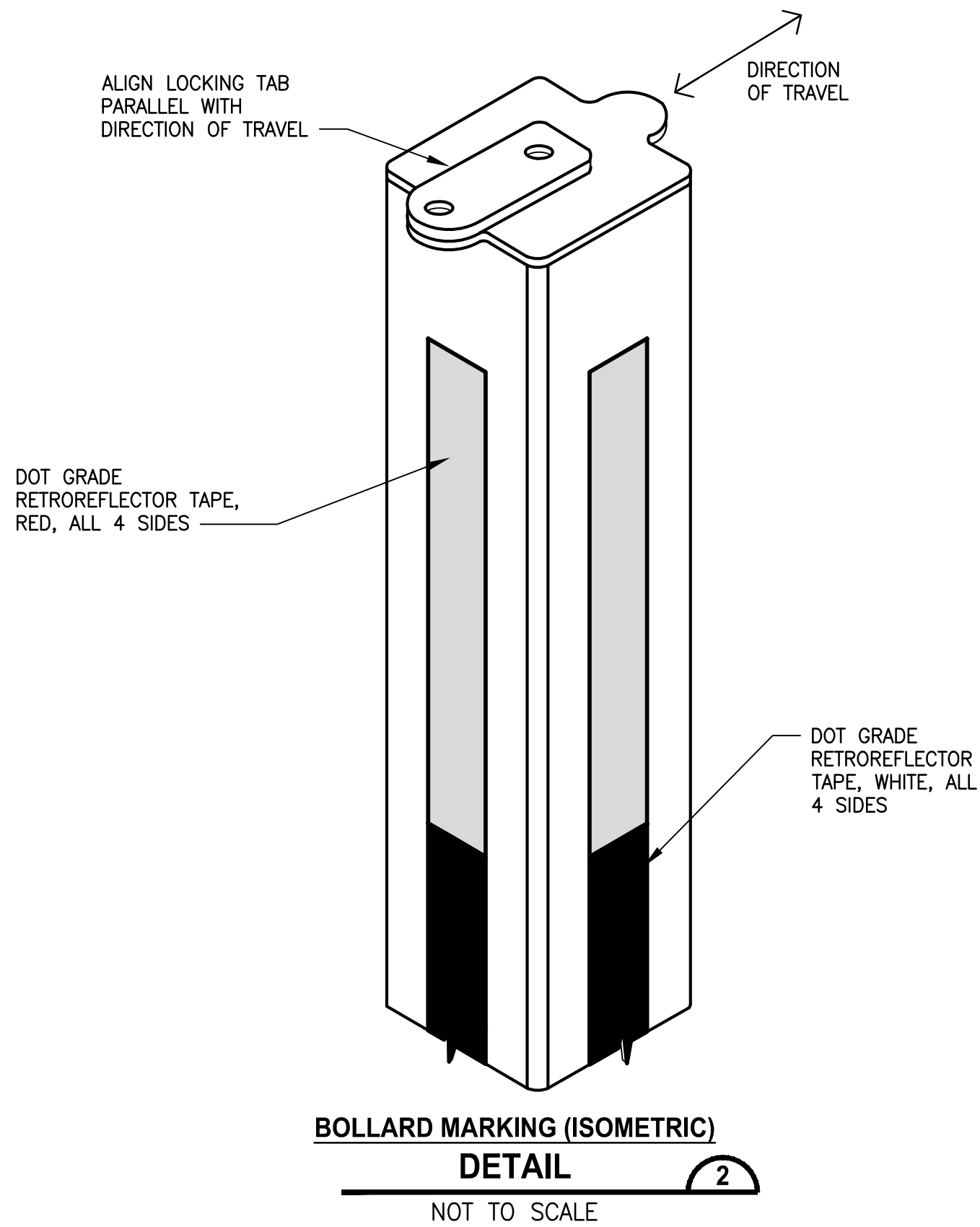
SHEET NO.
240 OF 274

MD4

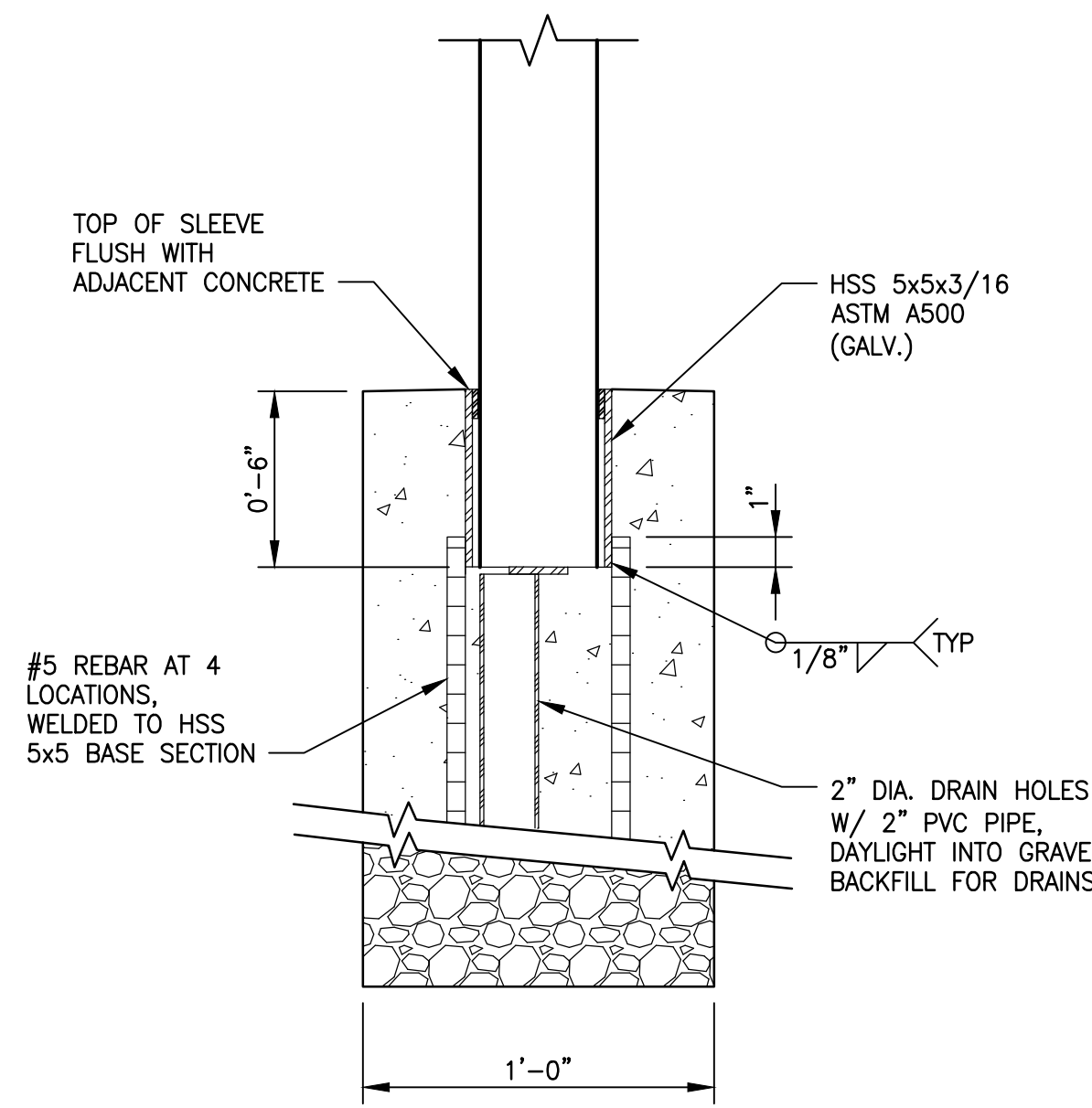
LAYOUT: MD5
PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\985\CS\CAD\Phase 19\T03 Civil\DWG\ PLOTTED BY: purgaban DATE: Wednesday, February 27, 2019 9:28:33 PM



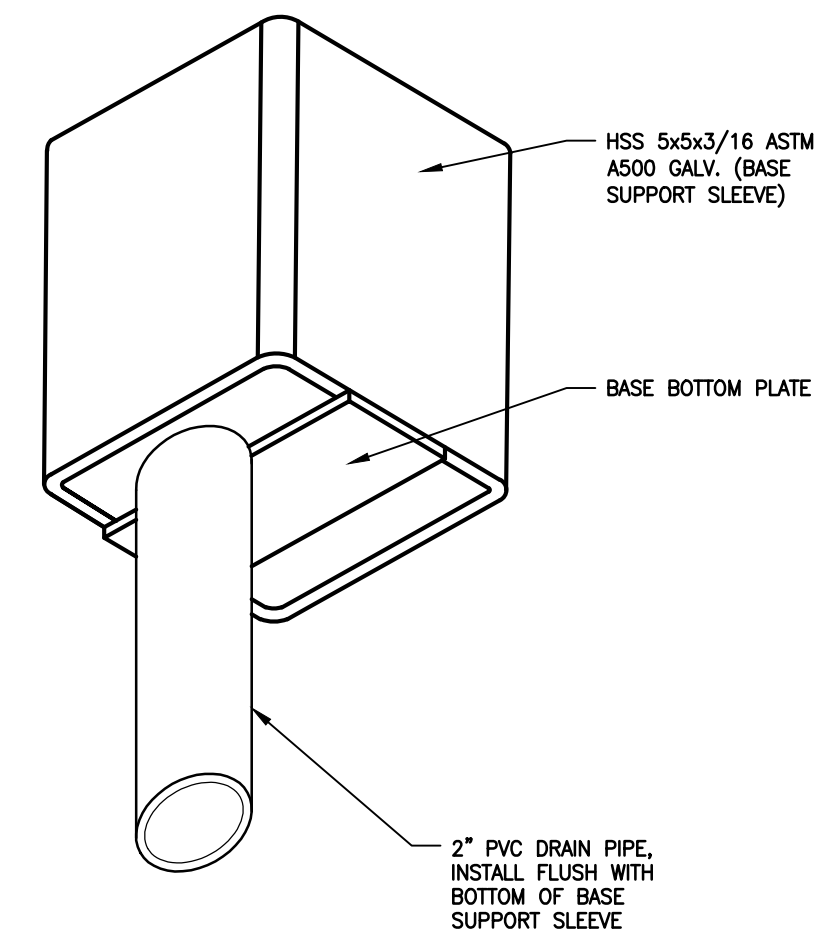
REMOVABLE BOLLARD (ELEVATION)
DETAIL
NOT TO SCALE



BOLLARD MARKING (ISOMETRIC)
DETAIL
NOT TO SCALE



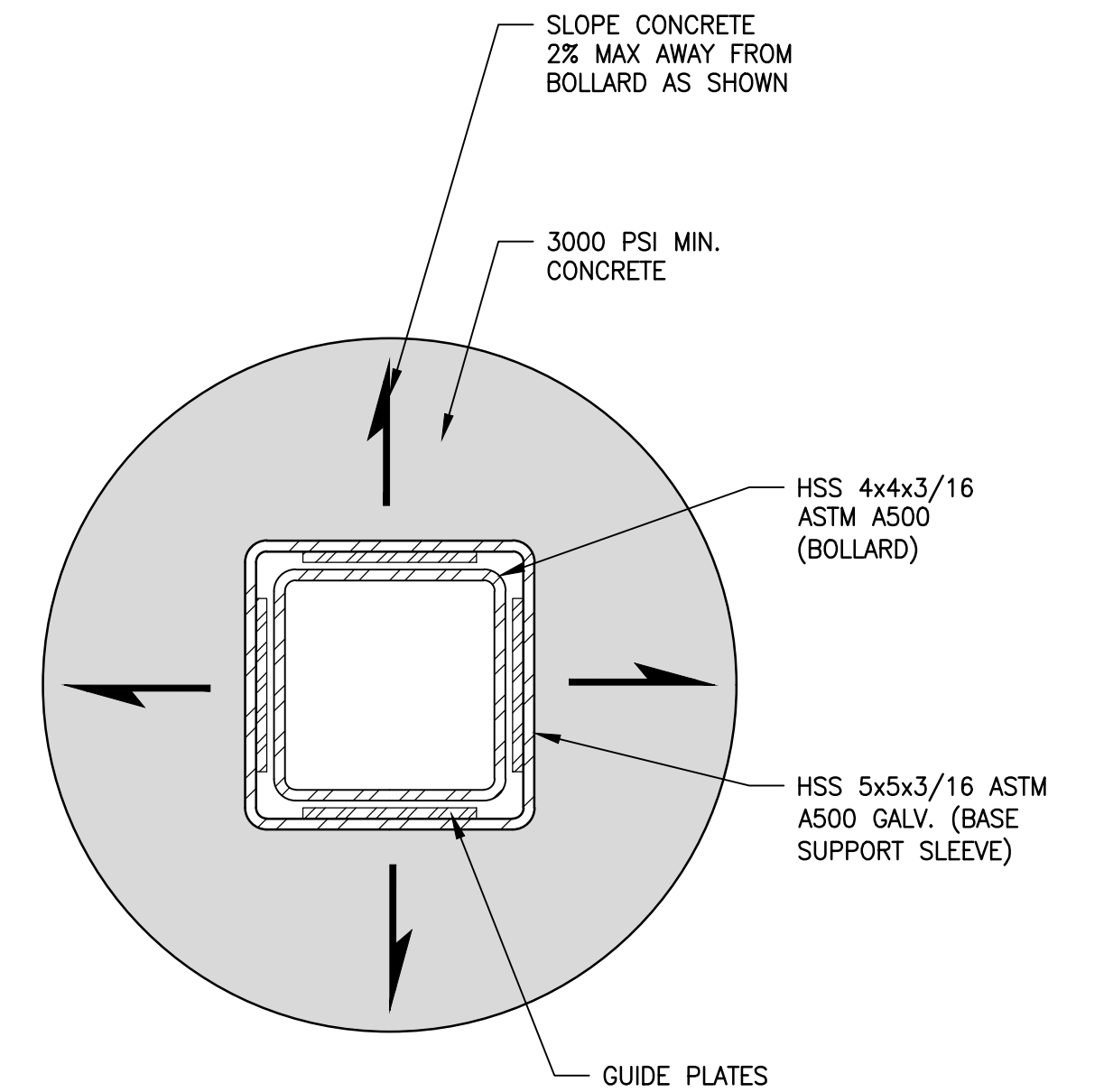
REMOVABLE BOLLARD EMBEDMENT
DETAIL
NOT TO SCALE



BOLLARD BASE DRAINS (ISOMETRIC)
DETAIL
NOT TO SCALE

NOTES:

1. REMOVABLE BOLLARD ASSEMBLY AND BASE SLEEVE ASSEMBLY PARTS ARE DESIGNED, MANUFACTURED AND PROVIDED BY KING COUNTY PARKS OPERATIONS.
2. PVC DRAIN PIPES ARE TO BE PROVIDED BY THE CONTRACTOR. INSTALLATION OF ALL PARTS SHALL BE PERFORMED BY THE CONTRACTOR.
3. GRAVEL BACKFILL FOR DRAINS SHALL CONFORM TO WSDOT STD. SPEC. 9-03.12(4).
4. CONCRETE SHALL ACHIEVE A 28-DAY STRENGTH OF 3000 PSI MINIMUM.
5. ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.4. WELDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS QUALIFIED FOR WELDS USING THE APPROVED ELECTRODES.



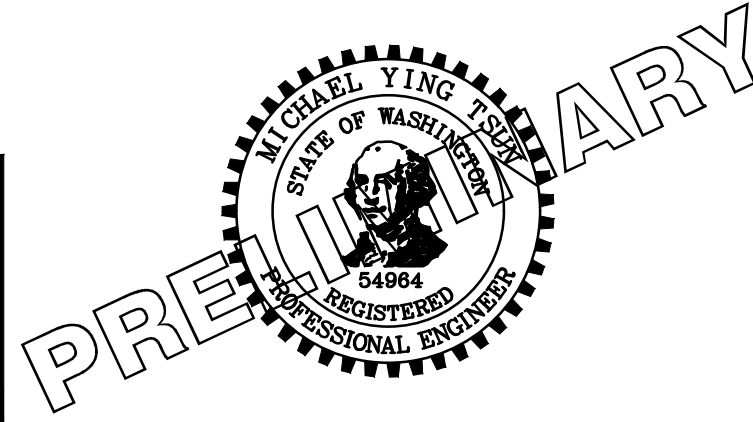
REMOVABLE BOLLARD (PLAN)
DETAIL
NOT TO SCALE

CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			B. PURGANAN
			Y. HO
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME BL1521075P19T03MD-01
JOB No. 554-1521-075 P19 T03
DATE FEBRUARY 2019



Parametrix
ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

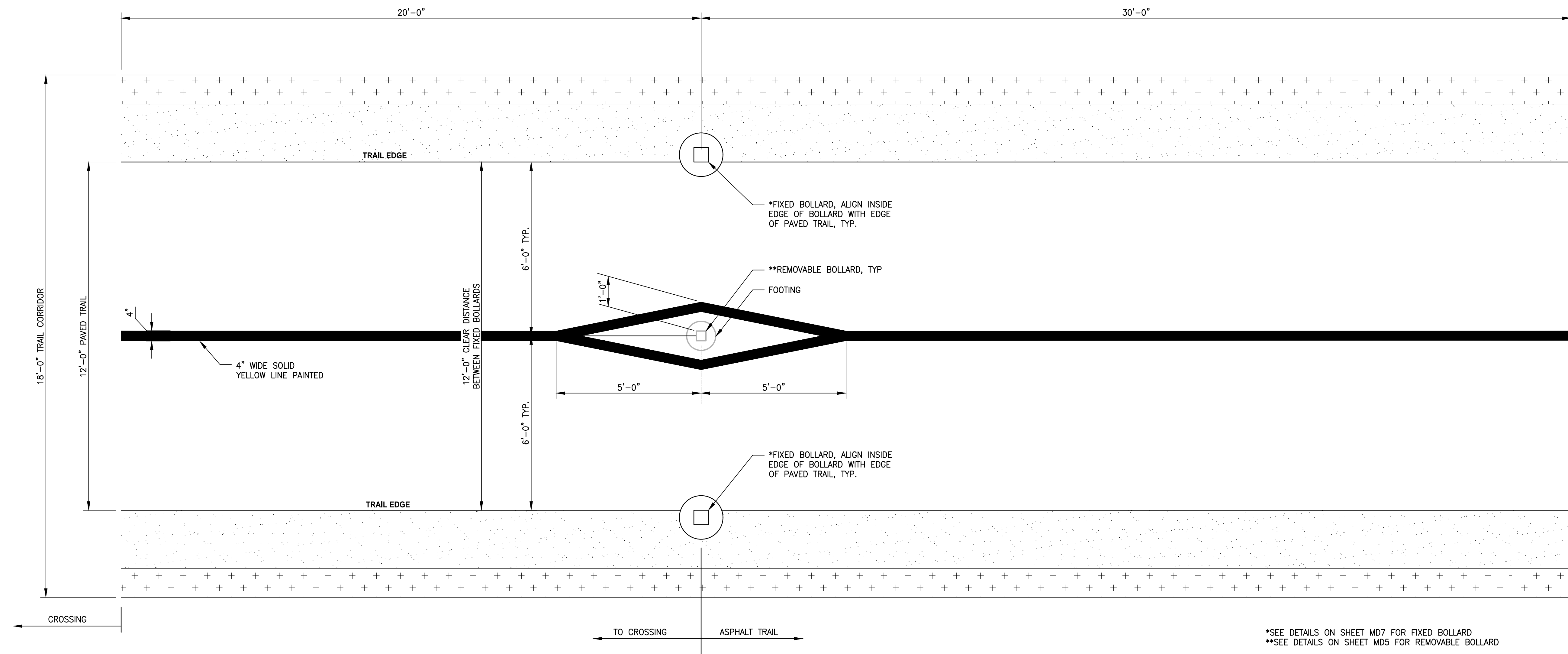
719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**
SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
241 OF 274

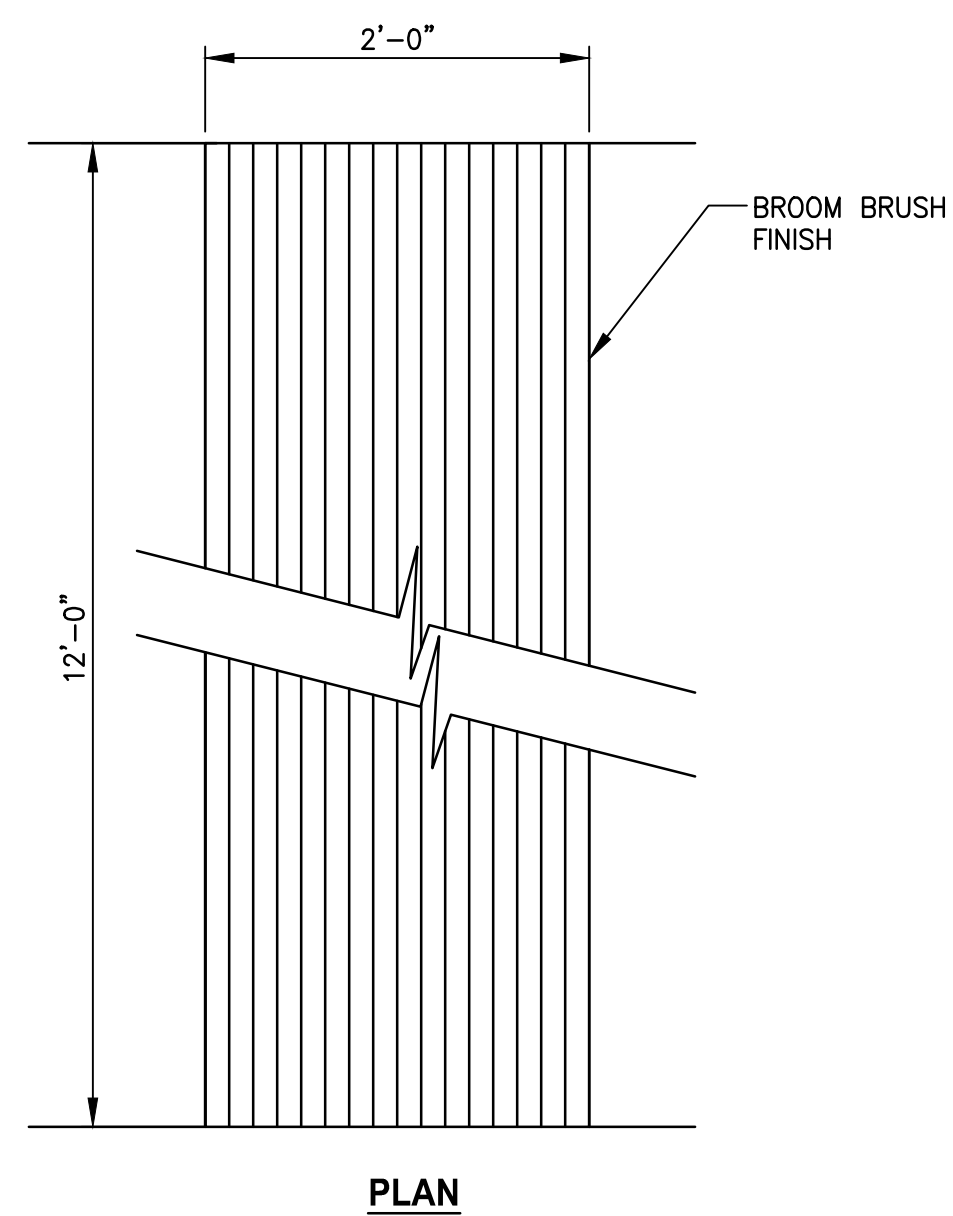
MD5



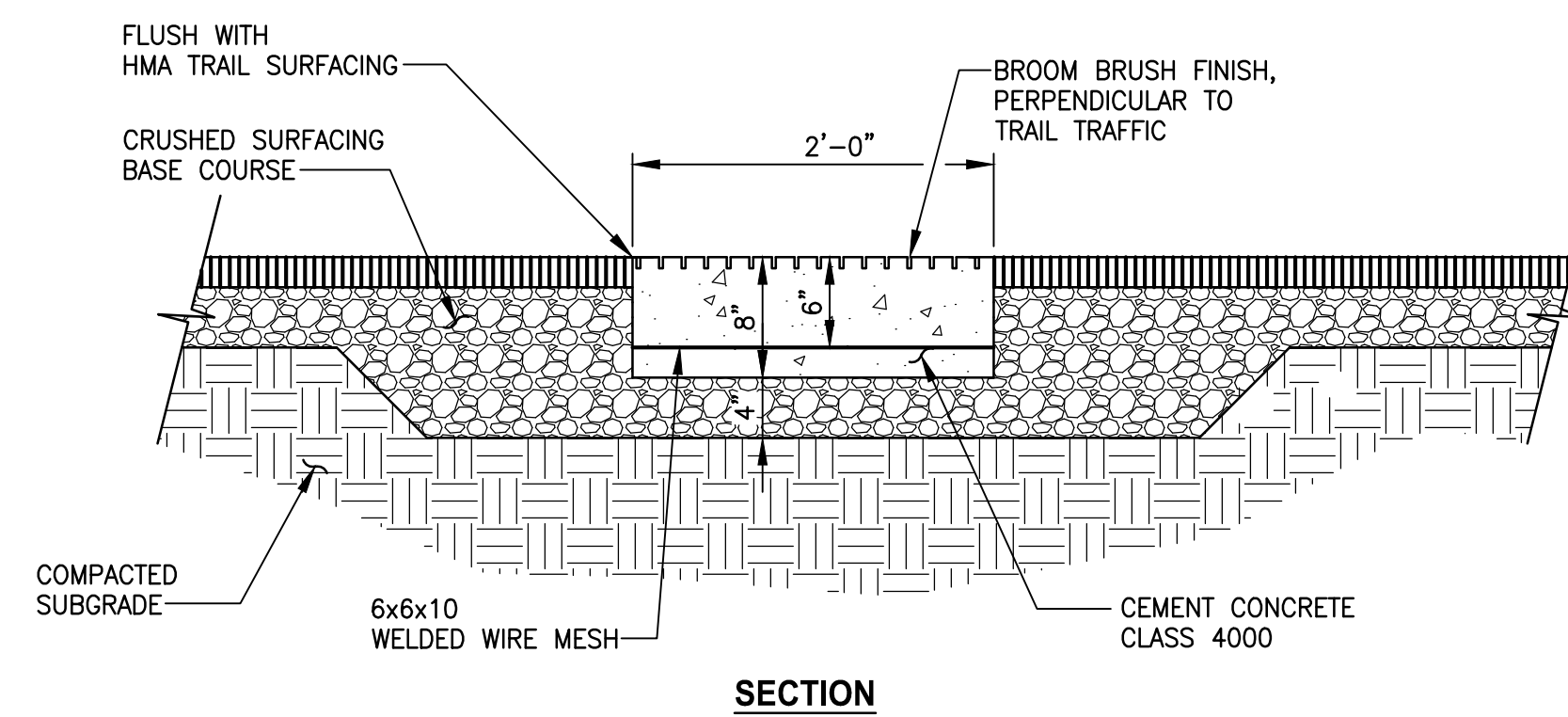
BOLLARD LAYOUT AND STRIPING (PLAN)

DETAIL

NOT TO SCALE



PLAN



SECTION

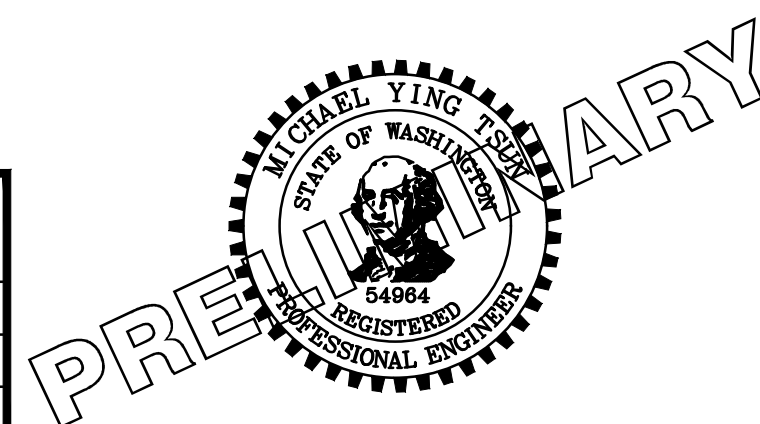
CONCRETE WARNING BAND **DETAIL**

NOT TO SCALE

▷	REVISIONS	DATE	BY	DESIGNED M. TSUN
				DRAWN B. PURGANAN
				CHECKED Y. HO
				APPROVED K. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL5121075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

SAMMAMISH, WA

MISCELLANEOUS DETAILS

CITY OF SAMMAMISH APPROVAL	
_____ City Engineer	_____ Date
_____ Community Development	_____ Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

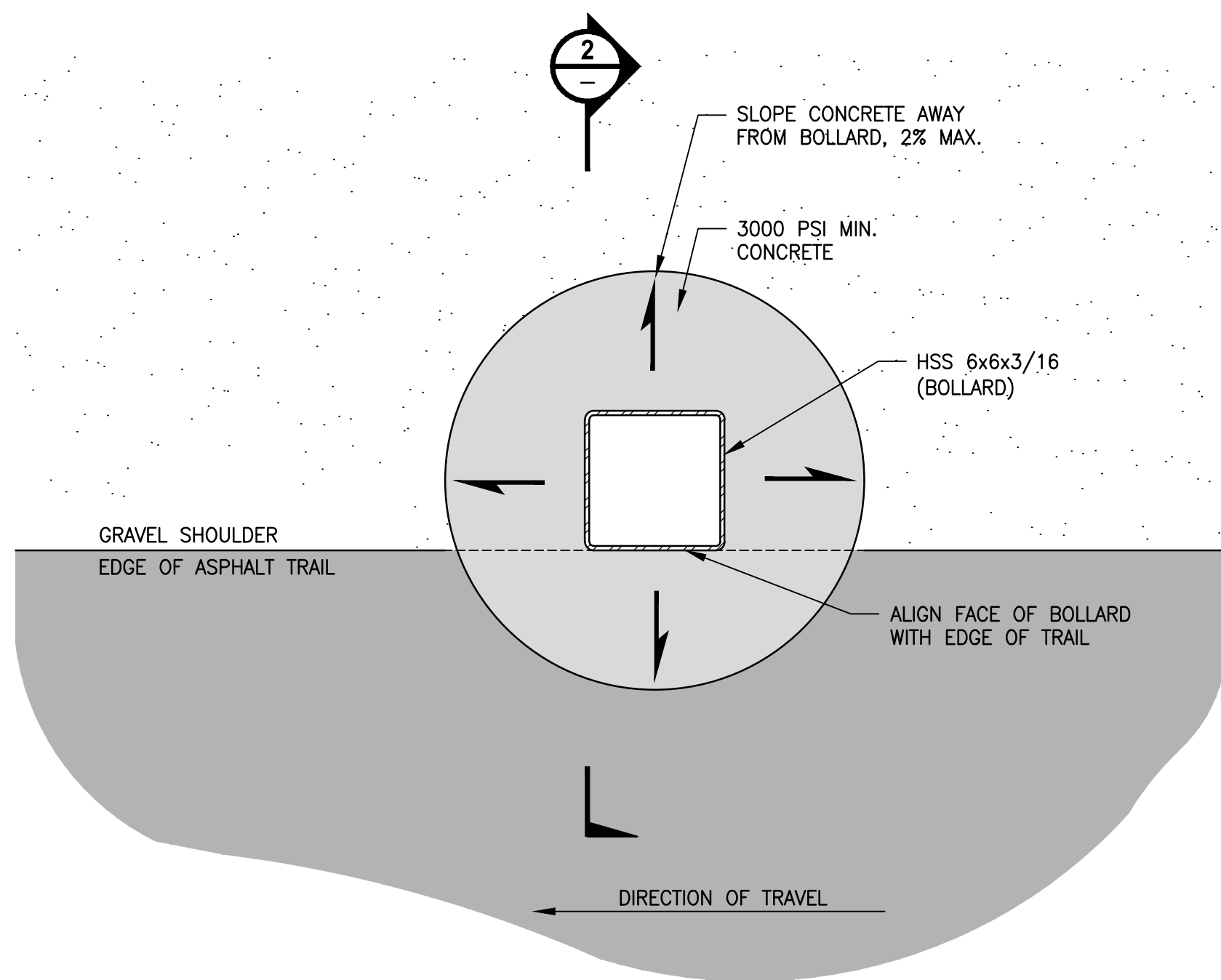
SHEET NO.
242 OF 274

MD6

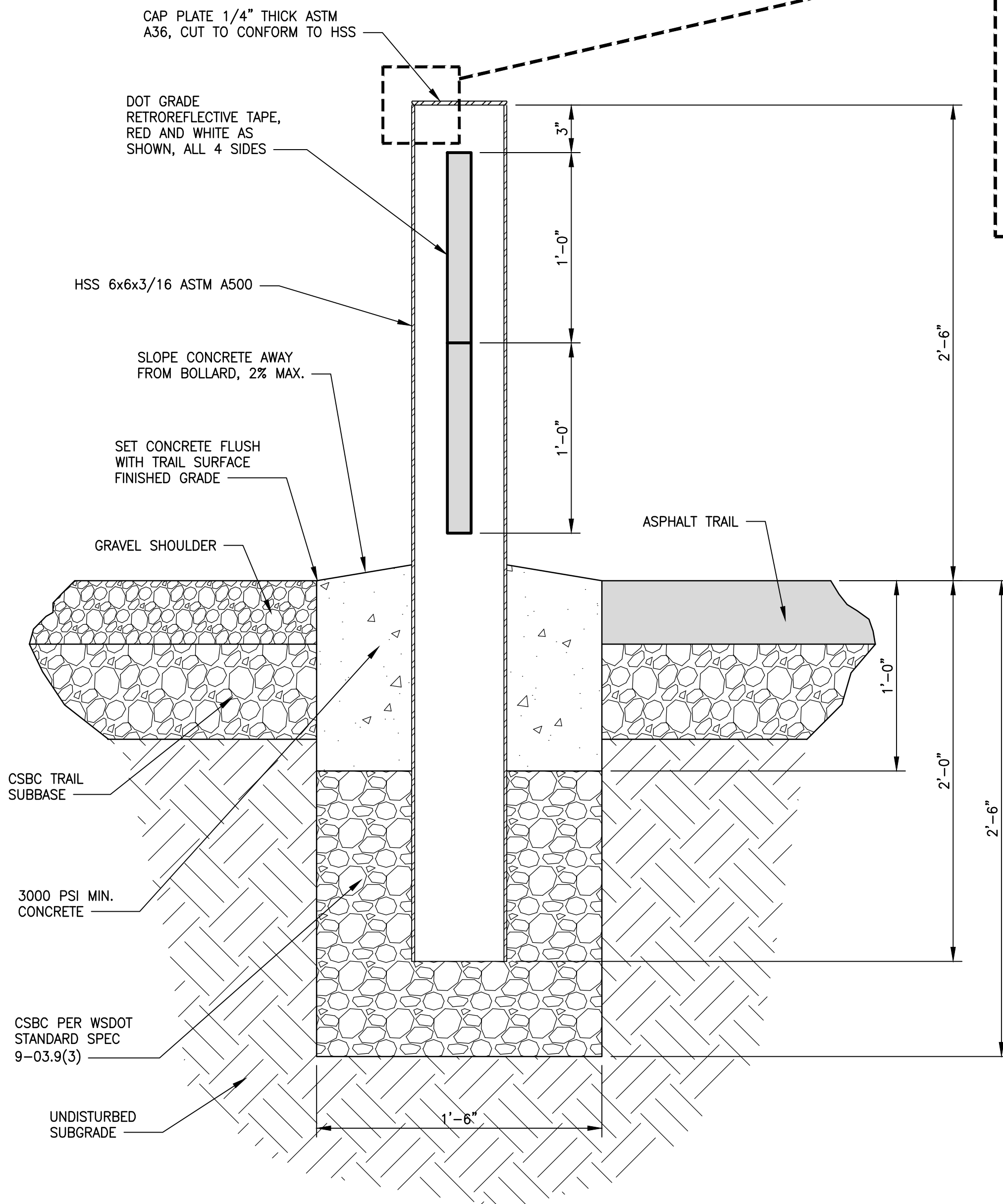
PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\98Sves\CADD\Phase 19\T03 Civil\Drawg\ PLOTTED BY: purgaban DATE: Wednesday, February 27, 2019 9:28:42 PM LAYOUT: MD7

NOTES:

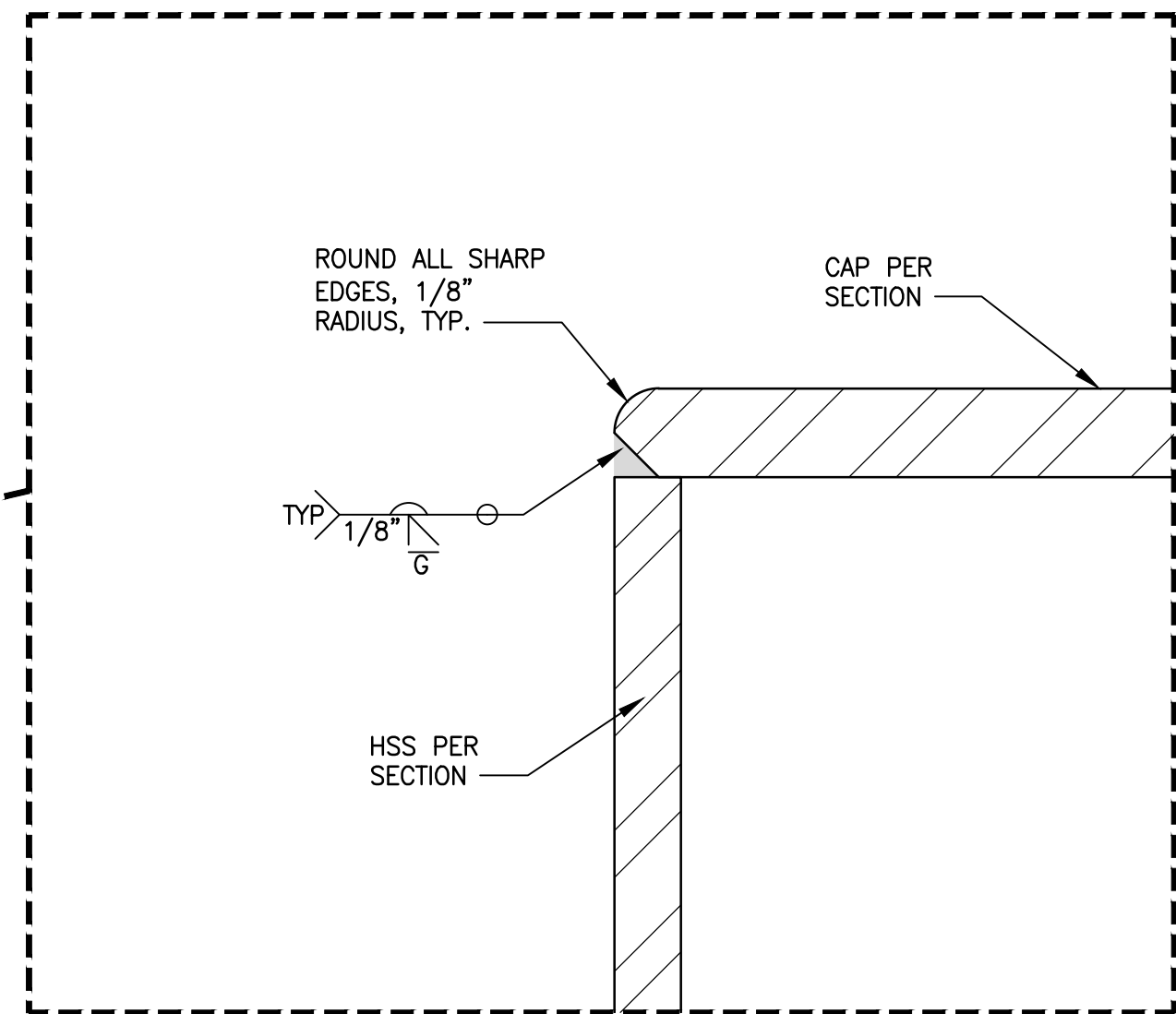
- BOLLARD ASSEMBLY SHALL BE POWDER COATED WHITE AFTER WELDING.
- APPLY RETROREFLECTIVE TAPE PER PLAN AFTER POWDER COATING.
- CONCRETE SHALL ACHIEVE A 28-DAY STRENGTH OF 3,000 PSI MINIMUM.
- ALL WELDS SHALL CONFORM TO THE REQUIREMENTS OF AWS DL4. WLDING SHALL BE PERFORMED BY AWS/WABO CERTIFIED WELDERS QUALIFIED FOR WELDS USING THE APPROVED ELECTRODES.



FIXED STEEL BOLLARD (PLAN VIEW)
DETAIL 1
NOT TO SCALE



FIXED STEEL BOLLARD (ELEVATION)
DETAIL 2
NOT TO SCALE

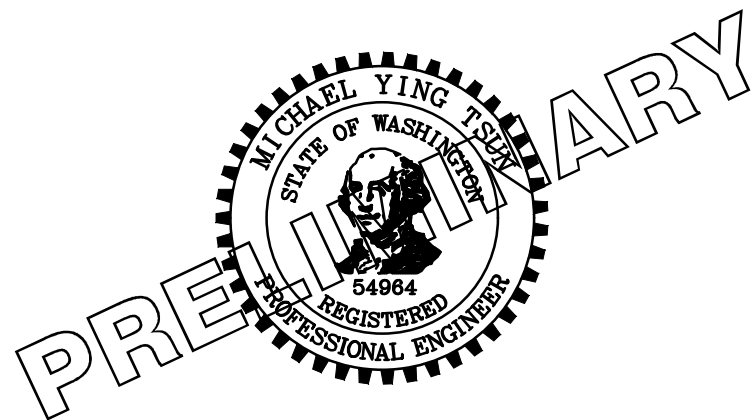


CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



Parametrix
ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME

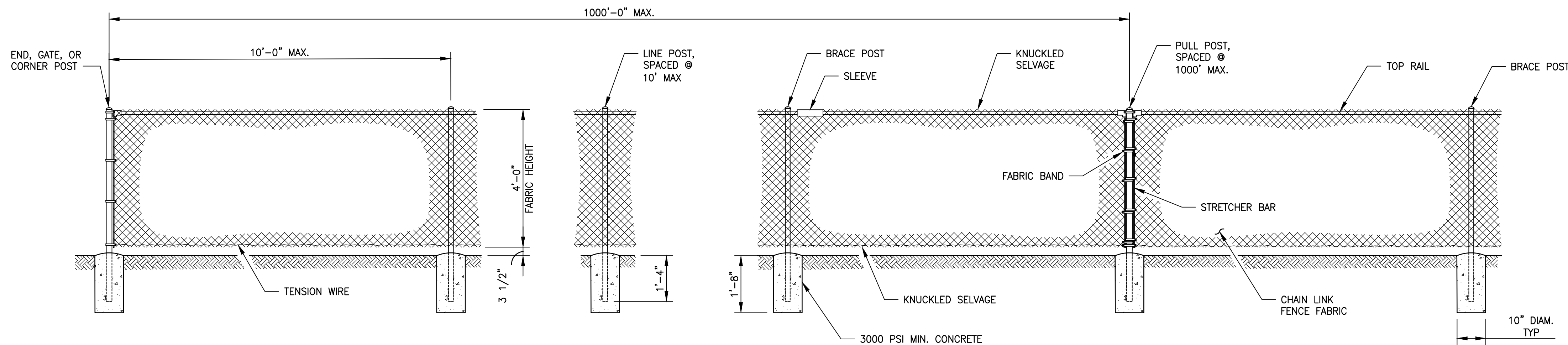
**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
243 OF 274

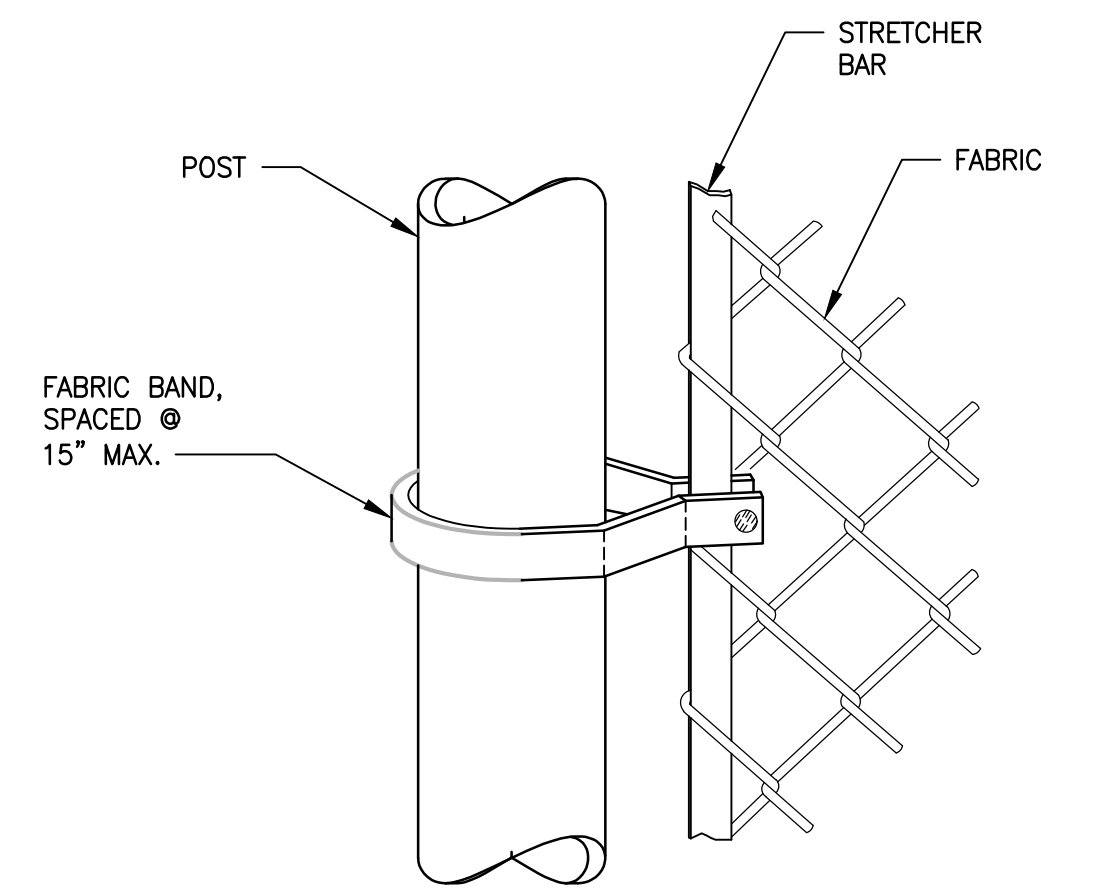
MD7



4 FOOT CHAIN LINK FENCE (ELEVATION)
DETAIL 1

POST AND RAIL SPECIFICATIONS

MEMBER	PIPE	CONC.	
	NOM. SIZE (SCH 40)	SECTION	WEIGHT (LB/FT)
END, CORNER, OR PULL POST	2 1/2" DIAM.	(A)	5.10
LINE OR BRACE POST	2" DIAM.	(B)	2.40
BRACE OR TOP RAIL	1 1/4" DIAM.	(C)	1.35
GATE POST	3 1/2" DIAM.		

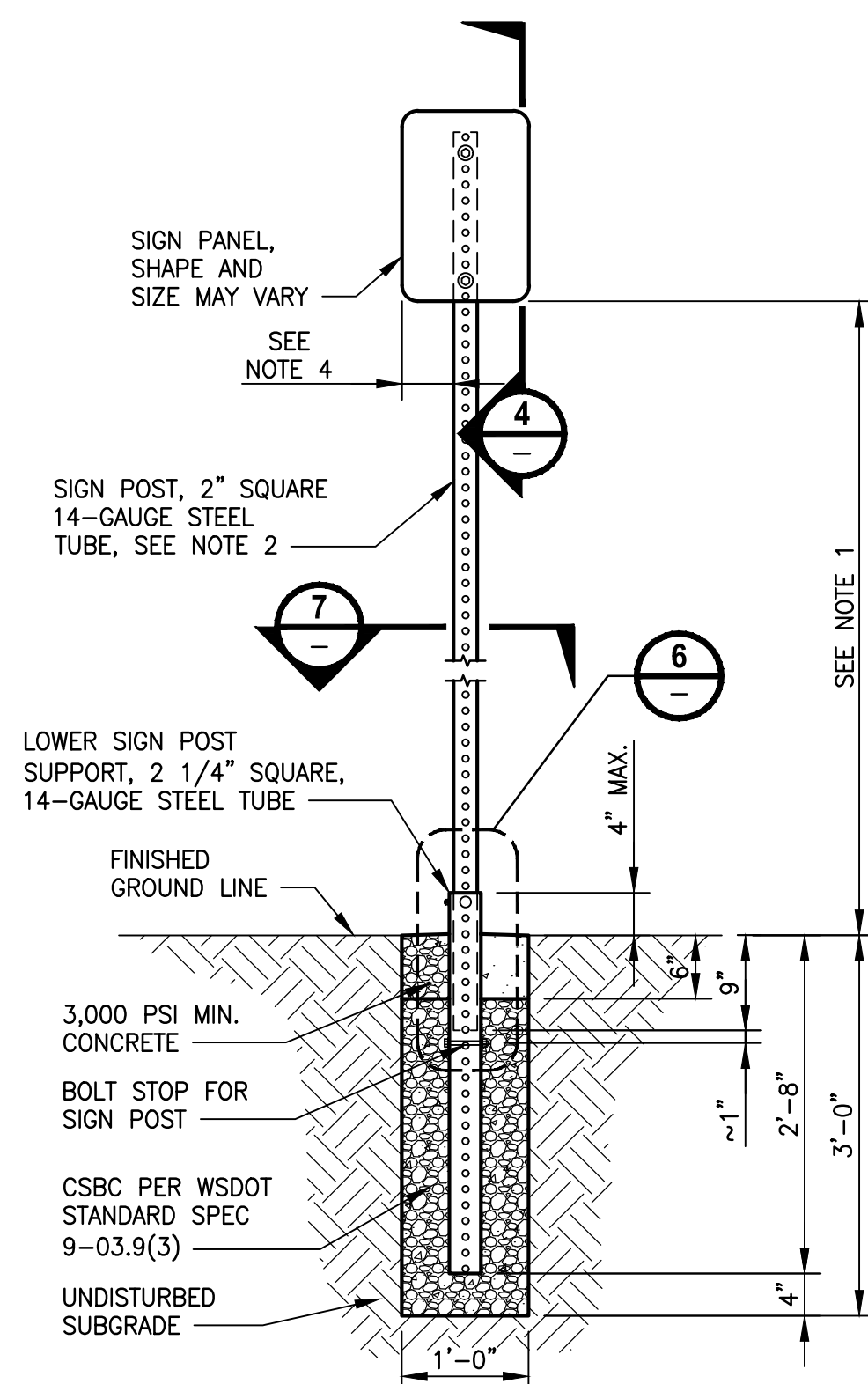
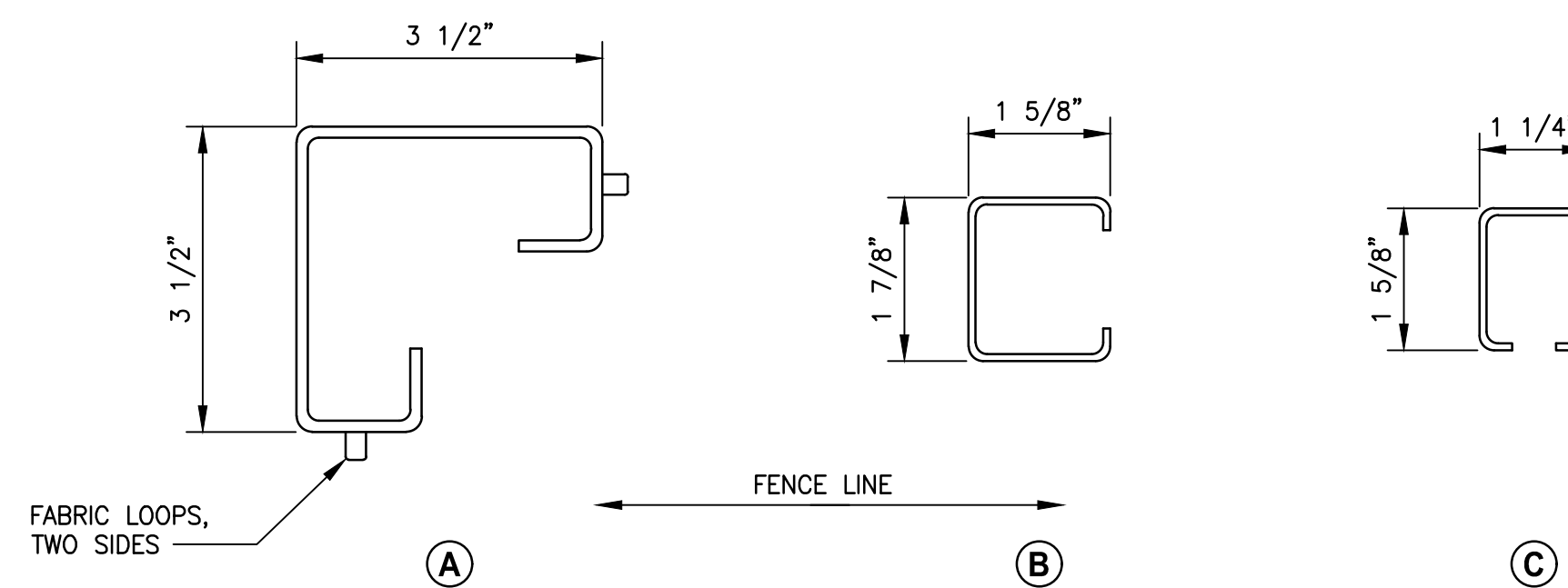


STRETCHER BAR DETAIL

NOT TO SCALE

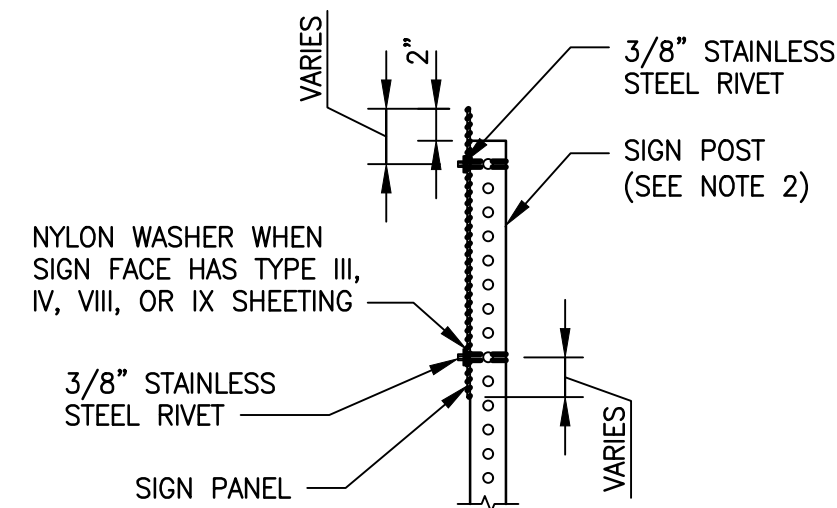
NOTES:

1. CHAIN LINK FENCE FABRIC SHALL BE HOT-DIP GALVANIZED WITH A MINIMUM OF 0.8 OUNCE PER SQUARE FOOT OF SURFACE AREA.
2. FENCING MATERIAL SHALL BE COATED WITH AN ULTRAVIOLET-INSENSITIVE PLASTIC OR OTHER INERT MATERIAL AT LEAST 2 MILS IN THICKNESS. ANY PRETREATMENT OR COATING SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS. THE COLOR SHALL MATCH FEDERAL STANDARD NUMBER *** 595 B 27038 BLACK ***, OR BE AS APPROVED BY THE ENGINEER.
3. TENSION WIRE SHALL BE PLACED WITHIN THE LIMITS OF THE FIRST FULL FABRIC WEAVE.
4. DETAILS ARE ILLUSTRATIVE AND SHALL NOT LIMIT HARDWARE DESIGN OR POST SELECTION OF ANY PARTICULAR FENCE TYPE.



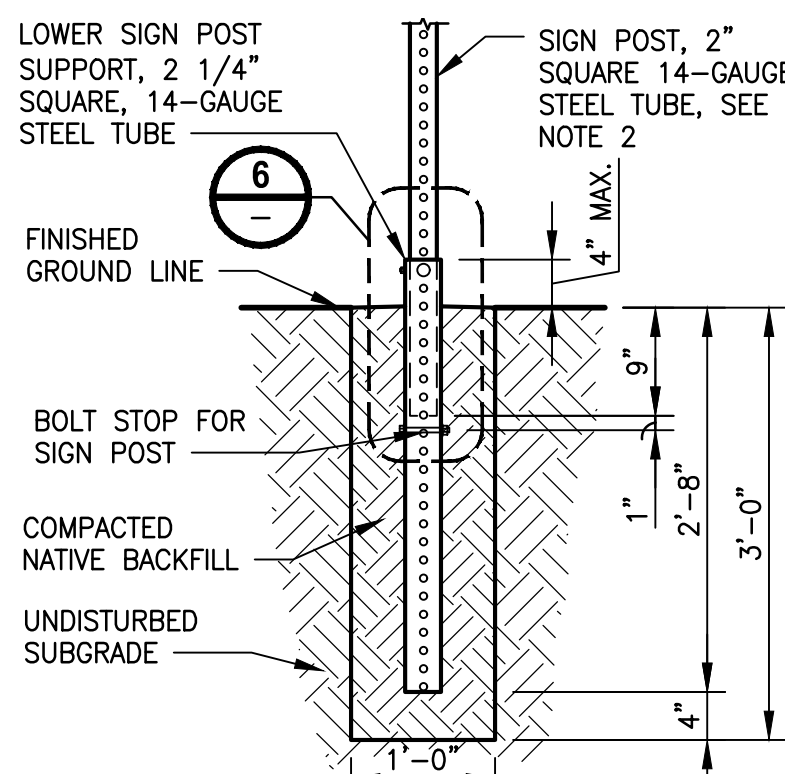
ELEVATION
CONCRETE SIGN SUPPORT
DETAIL

NOT TO SCALE



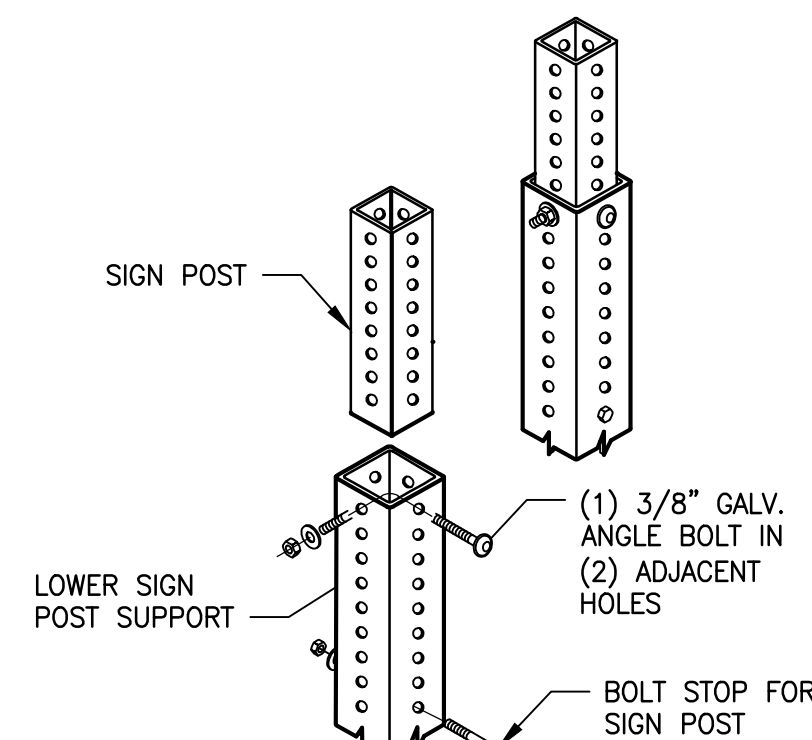
ELEVATION
SIGN PANEL ATTACHMENT
DETAIL

NOT TO SCALE



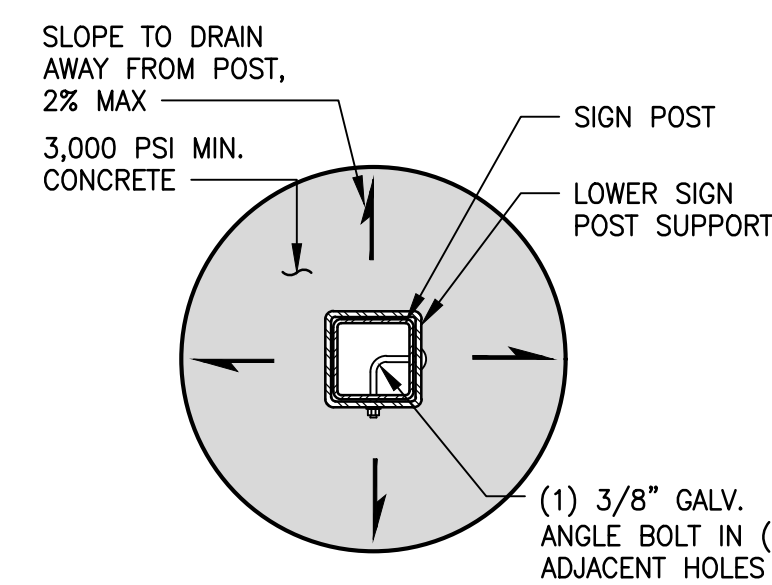
ELEVATION
NATIVE BACKFILL SUPPORT
DETAIL

NOT TO SCALE



**ISOMETRIC
LOWER POST SUPPORT ASSEMBLY
DETAIL**

NOT TO SCALE



PLAN VIEW
SIGN SUPPORT BASE
DETAIL

NOT TO SCALE

NOTES:

1. USE 7 FOOT MIN. MOUNTING HEIGHT FOR TRAFFIC SIGNS. USE 5 FOOT MIN. MOUNTING HEIGHT FOR TRAIL SIGNS.
2. PERFORATED SQUARE STEEL POST SHALL MEET REQUIREMENTS OF STANDARD SPECIFICATION 9-06.
3. USE ONLY BASE CONNECTION HARDWARE THAT MEET THE REQUIREMENTS OF STANDARD SPECIFICATIONS 9-06 AND 9-28.
4. USE OF CONCRETE FOOTING SIGN SUPPORT (DETAIL 1) OR NATIVE BACKFILL SIGN SUPPORT (DETAIL 4) PER KC PARKS ENGINEER'S DECISION.
5. LATERAL CLEARANCE DISTANCES FOR TRAIL AND TRAFFIC SIGNS SHALL BE PER KC PARKS STANDARDS, MUTCD OR WSDOT REQUIREMENTS, LOCAL JURISDICTION, OR AS APPROVED BY THE ENGINEER.
6. REFLECTOR ADDED TO SIGN POST PER KC PARKS ENGINEER'S DETERMINATION.
7. DIMENSIONS FOR THE PARTS USED TO ASSEMBLE THE BASE CONNECTIONS ARE INTENTIONALLY NOT SHOWN. BASE CONNECTIONS ARE PATENTED, MANUFACTURED PRODUCTS THAT ARE IN COMPLIANCE WITH NCHRP 350 CRASH TEST CRITERIA. BASE CONNECTION DETAILS ARE SHOWN ONLY TO ILLUSTRATE ASSEMBLY OF PARTS.

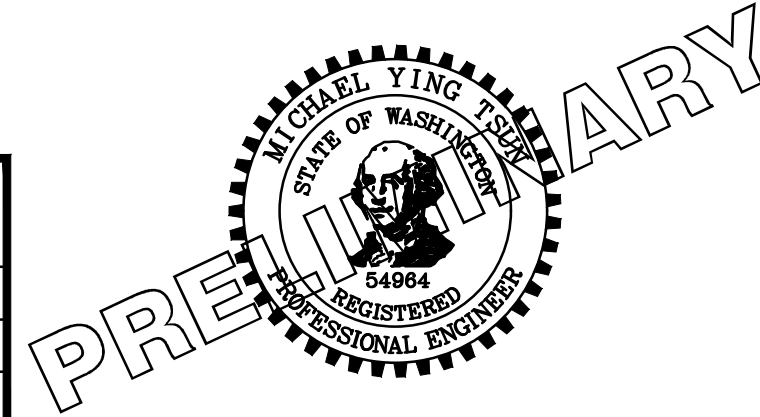
CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

▷	REVISIONS	DATE	BY	DESIGNED M. TSUN
				DRAWN B. PURGANAN
				CHECKED Y. HO
				APPROVED K. BAILEY

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

FILE NAME
BL5121075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



PROJECT NAME

**EAST LAKE SAMMAMISH
MASTER PLAN TRAIL
SOUTH SAMMAMISH SEGMENT B**

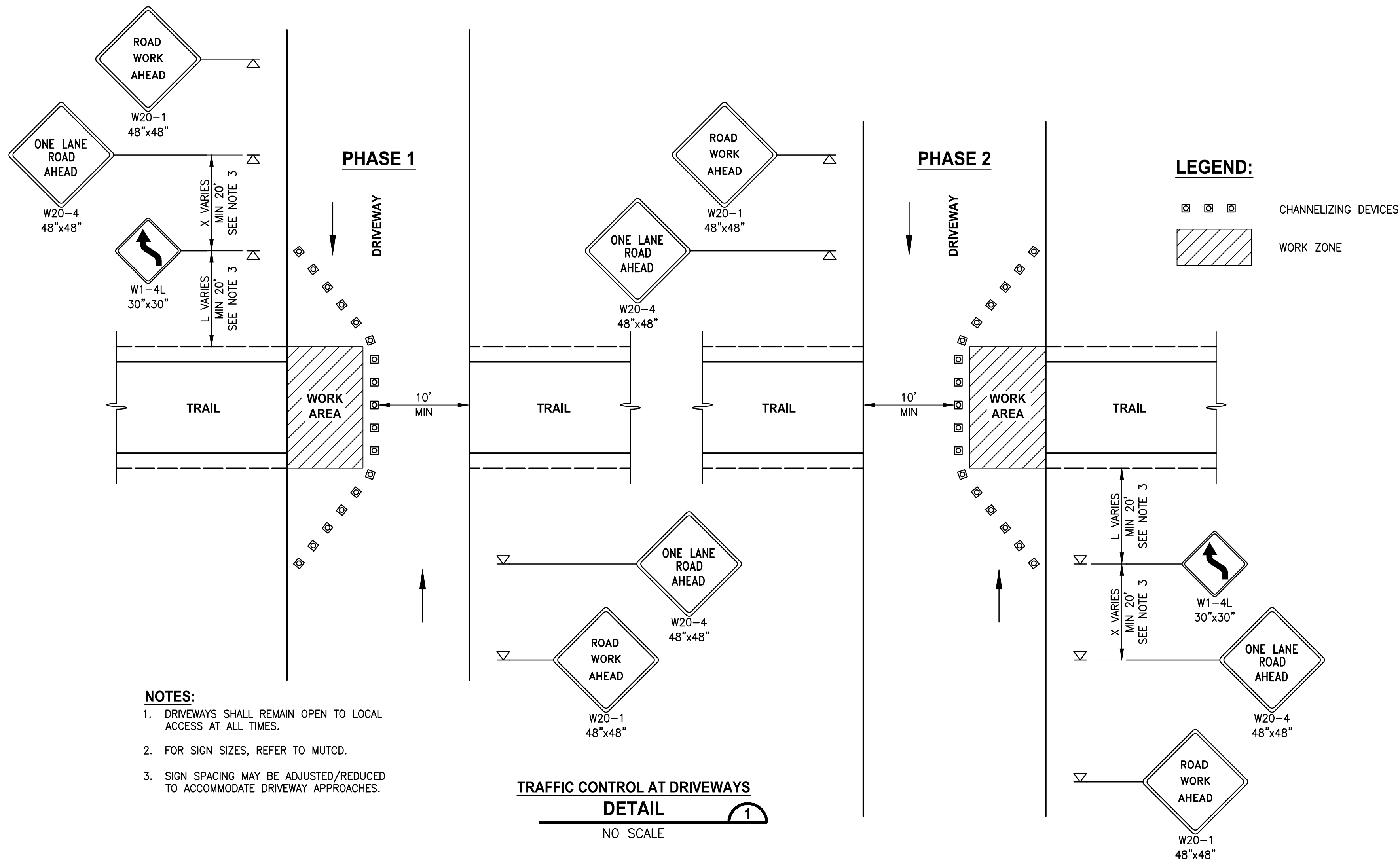
SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO.
244 OF 274

MD8

LAYOUT: MD9 PATH: U:\PSO\Projects\Clients\1521-KingCo\554-1521-075-ELST\98Svcs\CADD\Phase 19\T03 Civil\DWg\ PLOTTED BY: purganut DATE: Wednesday, February 27, 2019 9:28:53 PM

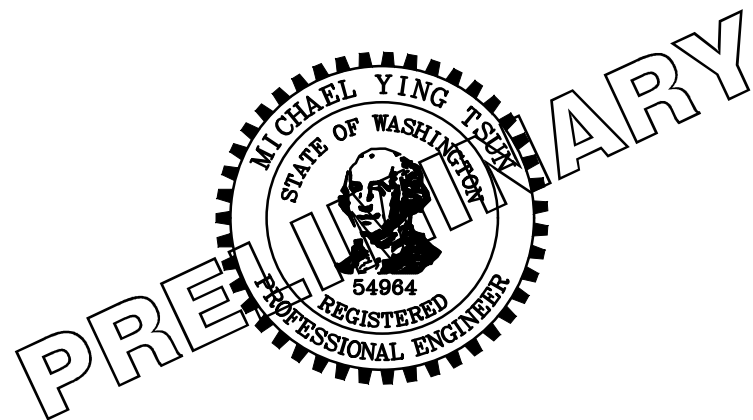


CITY OF SAMMAMISH APPROVAL	
City Engineer	Date
Community Development	Date

90 % REVIEW SUBMITTAL
NOT FOR CONSTRUCTION

REVISIONS	DATE	BY	DESIGNED
			M. TSUN
			DRAWN
			B. PURGANAN
			CHECKED
			Y. HO
			APPROVED
			J. BAILEY

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY
FILE NAME
BL1521075P19T03MD-01
JOB No.
554-1521-075 P19 T03
DATE
FEBRUARY 2019



Parametrix
ENGINEERING · PLANNING · ENVIRONMENTAL SCIENCES

719 2ND AVENUE, SUITE 200 | SEATTLE, WA 98104
P 206.394.3700
WWW.PARAMETRIX.COM

PROJECT NAME
EAST LAKE SAMMAMISH MASTER PLAN TRAIL SOUTH SAMMAMISH SEGMENT B SAMMAMISH, WA

MISCELLANEOUS DETAILS

SHEET NO. 245 OF 274
MD9