

# City of Chehalis Temporary Fire Station Chehalis, Washington

**RICE FERGUS MILLER**  
ARCHITECTURE INTERIORS PLANNING VIZLAB  
275 FIFTH STREET, SUITE 100  
BREMERTON, WA 98337  
360-377-8773  
RFMARCH.COM



**Project Directory**

**Owner:**

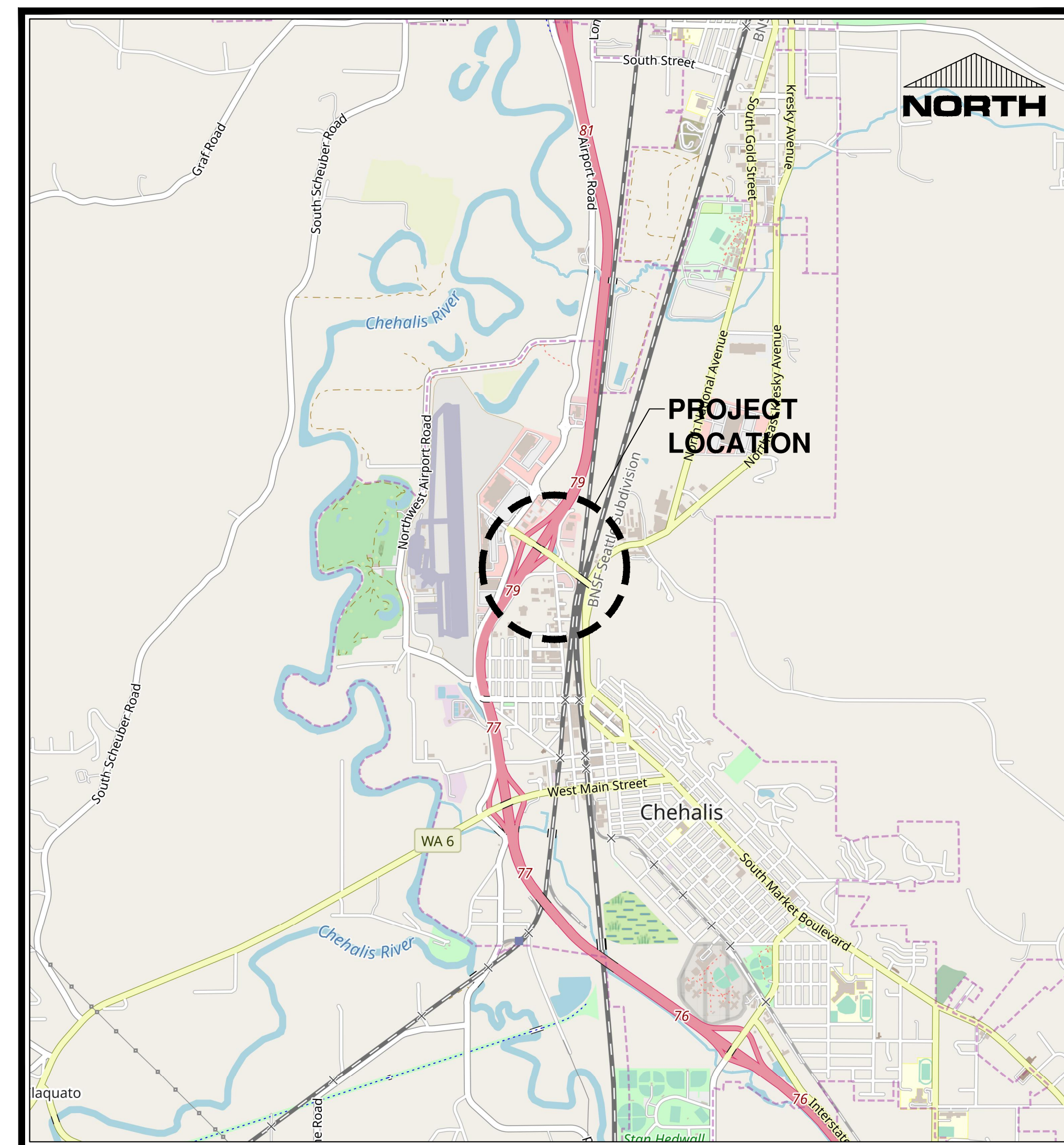
**City of Chehalis**  
Public Works Director  
Trent Lougheed, P.E.  
420 NW Louisiana Ave  
Chehalis, Washington 98532  
Phone No. 360 / 740-7536  
Fax No. 360 / 740-5336

**Design Team:**

**Civil Engineers**  
Gibbs & Olson, Inc.  
Carol Ruiz, P.E.  
1157 3rd Ave. Suite 219  
Longview, Washington 98632  
Phone No. 360 / 425-0991  
Fax No. 360 / 423-3162  
Email: cruiz@gibbs-olson.com

**Architect**

**Rice Fergus Miller**  
Project Manager  
Howard Struve, LEED BD+C  
275 Fifth St, Suite 100  
Bremerton, Washington 98337  
Phone No. 360 / 377-8773 ext 112



**Vicinity Map**

**City of Chehalis**

**Mayor**  
Dennis Dawes

**Mayor Pro-tem**  
Daryl Lund

**City Council**  
Mike Bannan  
Tony Ketchum  
Jerry Lord  
Dr. Isaac Pope  
Robert Spahr

**City Manager**  
T. Jill Anderson

**Public Works Director**  
Trent Lougheed, P.E.

**Funded by:**  
**City of Chehalis**

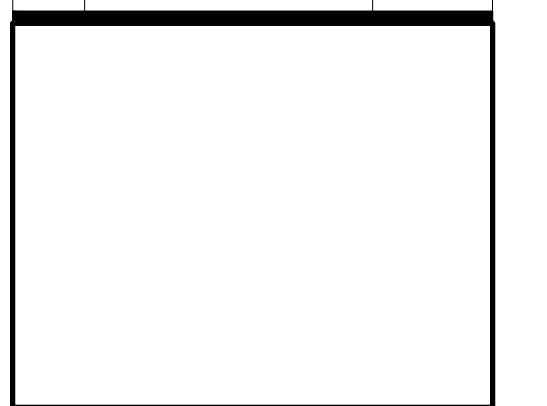
**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE	



COVER SHEET


SHEET #

**C00.00**

## Abbreviations

ADJ	Adjust	MJ	Mechanical Joint
AC	Asphalt Concrete	NAVD	North American Vertical Datum
ASPH	Asphalt	(N)	North
ASSY	Assembly	(NE)	Northeast
AVE	Avenue	(NW)	Northwest
BC	Back of Curb	NTS	Not to Scale
BFV	Butterfly Valve	OD	Outside Diameter
BLKG	Blocking	O/S	Offset
BLDG	Building	PC	Point of Curvature
BVC	Begin Vertical Curve	PE	Professional Engineer
BVCE	Begin Vertical Curve Elevation	PERF	Perforated
BVCS	Begin Vertical Curve Station	PERM	Permanent
CARV	Combination Air Release Valve	PL	Property Line
CB	Catch Basin	PT	Point of Tangency
CD	Control Density Fill	PVC	Polyvinyl Chloride
CI	Cast Iron	PVMT	Pavement
CL	Centerline	PKG	Parking
CL	Class	PRV	Pressure Reducing Valve
CMP	Corrugated Metal Pipe	PT	Point of Tangency
CO	Clean Out	PVI	Point of Vertical Intersection
CONC	Concrete	PVIS	Point of Vertical Intersection Elevation
CONST	Construction	R	Radius
CONTR	Contractor	R	Rebar and Cap
CPEP	Corrugated Polyethylene Pipe	REQ'D	Required
CPG	Coupling	RPBA	Reduced Pressure Backflow Assembly
CSBC	Crushed Surfacing Base Course	RT	Right
CSTC	Crushed Surfacing Top Course	ROW	Right-of-Way
DI	Ductile Iron	S	South
DIA	Diameter	(S)	South
DL	Daylight Earthwork	SD	Storm Drain
DS	Downspout	SDCB	Storm Drain Catch Basin
DTL	Detail	SDMH	Storm Drain Manhole
DWG	Drawing	SDR	Sidewalk Dimension Ratio
DWY	Driveway	(SE)	Southeast
(E)	East	SHT	Sheet
EC	Erosion Control	SS	Sanitary Sewer
EG	Existing Grade	SSCO	Sanitary Sewer Clean Out
EGC	Existing Grade at Centerline	SSMH	Sanitary Sewer Manhole
ELEV	Elevation	SST	Stainless Steel
EP	Edge of Pavement	ST	Street
EVC	End Vertical Curve	STA	Station
EVCE	End Vertical Curve Elevation	STD	Standard
EVCS	End Vertical Curve Station	STRUCT	Structure
EX	Existing	SW	Sidewalk
FCA	Flange Coupling Adapter	(SW)	Southwest
FDC	Fire Department Connection	TC	Top of Curb
FG	Finish Grade	TELE	Telephone
FGC	Finish Grade at Centerline	TEMP	Temporary
FH	Fire Hydrant	TESC	Temporary Erosion and Sediment
FL	Flow Line	Control	
FLG	Flange	THRU	Through
FND	Found	TP	Top of Pipe
FOC	Face of Curb	TRANS	Transition
GV	Gate Valve	TYP	Typical
HDPE	High Density Polyethylene	UNO	Unless Noted Otherwise
HMA	Hot Mix Asphalt	V	Vertical
HORIZ	Horizontal	VC	Vertical Curve
HYD	Hydrant	VERT	Vertical
ILLUM	Illumination	W	With
INV	Invert	(W)	West
IE	Invert Elevation	WSE	Water Surface Elevation
INT	Intersection		
IP	Iron Pipe		
JUNCT	Junction		
LT	Left		
LF	Lineal Feet		
LS	Landscaped Surface		
MAX	Maximum		
MD	Measure Down		
MG/L	Milligrams per Liter		
MIN	Minimum		
MH	Manhole		

### SYMBOLS

Δ	Delta
#	Number
&	And
@	At
Ø	Diameter

## Legends

### Existing Line Types

	Existing Building
	Existing Cable TV - Buried
	Existing Centerline Road
	Existing Concrete, Curb, Gutter and Sidewalk
	Existing Creek/Ditch
	Existing Fence
	Existing Gas
	Existing Guardrail
	Existing Gravel
	Existing Pavement Edge
	Existing Power - Aerial
	Existing Power - Buried
	Existing Right-Of-Way
	Existing Sanitary Sewer
	Existing Storm Drain
	Existing Telephone - Buried
	Existing Traffic Signal
	Existing Toe of Slope
	Existing Top of Slope
	Existing Brush Ditch
	Existing Water
	Existing Wetland Boundary
	Existing Wetland Buffer

### Proposed Line Types

	Proposed Sanitary Sewer Line
	Proposed Water Line
	Proposed Storm Drain Pipe
	Proposed Silt Fencing
	Proposed Conduit

### Existing Symbols

	Existing Yard Light
	Existing Hydrant
	Existing Water Meter
	Existing Gate Valve
	Existing Water Vault
	Existing Mail Box
	Existing Sign
	Existing Conifer Tree
	Existing Deciduous Tree
	Existing Shrub
	Existing Power Pole
	Existing Power Pole Anchor
	Existing Power Transformer
	Existing Power Vault
	Existing Sewer Cleanout
	Existing Sewer Manhole
	Existing Storm Culvert
	Existing SDCB
	Existing SDMH
	Existing Telephone Pole
	Existing Telephone Pole Anchor
	Existing Telephone Riser
	Existing Street Light
	Existing Traffic Signal
	Existing Junction Box
	Existing Gas Valve
	Existing Traffic Signal Cabinet

### Proposed Symbols

	Proposed SDMH
	Proposed SDCB
	Proposed SDCO
	Proposed Fire Hydrant
	Proposed Gate Valve MJ x FLG
	Proposed Gate Valve MJ
	Proposed Fitting MJ
	Proposed Fitting FLG
	Proposed Fitting MJ x FLG
	Proposed Thrust Block
	Proposed Double Check Backflow Preventer
	Proposed Water Meter
	Proposed SSMH
	Proposed SSCO
	Survey Point

## General Notes

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS OF THESE CONTRACT DOCUMENTS, THE CITY'S STANDARDS AND THE MOST CURRENT STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THESE PLANS AND SPECIFICATIONS ON THE CONSTRUCTION SITE AT ALL TIMES.
- ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE CONTRACTING AGENCY.
- APPROXIMATE LOCATIONS OF EXISTING UTILITIES HAVE BEEN OBTAINED FROM AVAILABLE RECORDS AND ARE SHOWN FOR CONVENIENCE. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING UNDERGROUND LOCATE LINE AT 811 A MINIMUM OF TWO FULL WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
- TEMPORARY STREET PATCHING SHALL BE ALLOWED AS APPROVED BY THE CONTRACTING AGENCY. ALL TEMPORARY STREET PATCHING SHALL BE PROVIDED BY PLACEMENT AND COMPACTION OF HOT MIX ASPHALT WITH A NOMINAL DEPTH OF 2 INCHES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY PATCHES AS REQUIRED.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH UTILITIES AS NEEDED FOR THE DURATION OF THE PROJECT.
- PRIOR TO SUBMITTING MANHOLE/CATCH BASIN SHOP DRAWINGS, CONTRACTOR TO POTHOLE AND VERIFY ALL STORM DRAIN ELEVATIONS, PIPE SIZE AND MATERIAL TYPE.

## Sheet Index

Drawing No.	Sheet Title
C00.00	Cover Sheet
C00.01	Notes, Legend, Abbreviations, & Sheet Index
C00.02	Existing Conditions Plan
C10.01	Site Preparation & TESC Plan
C11.01	Site Preparation & TESC Details
C20.01	Site & Utility Plan
C21.01	Site & Utility Details
C21.02	Site & Utility Details
C21.03	Site & Utilities Details
C30.01	Storm Drain & Grading Plan
C30.02	Storm Drain & Grading Details
C30.03	Alignment Plan
C30.04	Profiles



**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
 CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE	

NOTES, LEGEND,  
ABBREVIATIONS, &  
SHEET INDEX

SHEET #

**C00.01**



Know what's below.  
Call 811 before you dig.

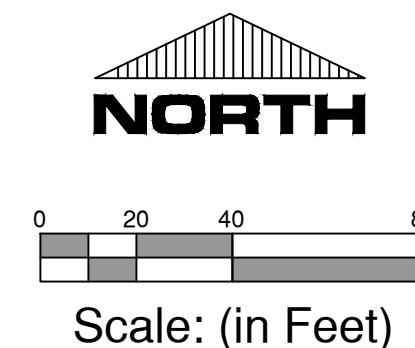
CAUTION: LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE AND MAY NOT BE ACCURATE OR ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATION AND DEPTH OF UTILITIES PRIOR TO PROCEEDING WITH CONSTRUCTION.



GIBBS & OLSON  
www.gibbs-olson.com



CITY OF CHEHALIS  
TEMPORARY FIRE STATION  
CHEHALIS, WASHINGTON



Legend

- Found Corner Monuments as noted
Control Point
Calculated point, not found or set
Plat, bearing/distance
Record of Survey
Drive Way/Approach
Power Line
Fire Hydrant (3-Port)
Water Valve
Luminaries
Storm Drain Catch Basin
Storm Drain Manhole
Sanitary Sewer Manhole
Power, Field locate marks
Water, Field locate Marks
Gas, Field locate Marks
Sanitary Sewer, Field locate Marks
Telephone, Field locate Marks
Cable, Field locate Marks
Sewer Force Main
Mailbox
Survey Monument Number
Power Pole
Guy Anchor
Power Transformer
Power Vault
Sign
Telephone Riser
Telephone Vault
ESMT
Easement
Fence, as noted
Top of ground breaks
Toe of ground breaks
Coniferous Tree
Deciduous Tree
Railroad Tracks
Water Meter
Edge of Pavement
Edge of Gravel
Property Line

SURVEY CONTROL AND MONUMENTS:

- #1 FOUND 1/2" REBAR AND CAP "EAB LS 18986" @ CHAMBER OF COMMERCE SURVEY CONTROL POINT N=498892.95 E=1019573.02 ELEV=189.25
#2 SET MAG NAIL IN ASPH IN NO PARKING AREA AT WLY APPROACH OF PLAZA JALISCO 10.5+/- EAST OF F.HYD SURVEY CONTROL POINT N=498596.84 E=1019064.22 ELEV=173.57
#1941 SET MAG NAIL IN ASPH NW QUAD OF MARYLAND AND STATE SURVEY CONTROL POINT N=498682.92 E=1019411.08 ELEV=185.58
#5001 FOUND 5/8" REBAR AND CAP "KLF LS 16908" SURVEY PROPERTY CORNER N=498251.58 E=1019493.7 ELEV=178.12
#5002 FOUND 1/2" REBAR AND CAP "LS 36792 86894 PLS" SURVEY PROPERTY CORNER N=498430.11 E=1019521.47 ELEV=179.51
#5003 FOUND MAG NAIL AND LS WASHER "CS 36792" SURVEY PROPERTY CORNER N=498305.74 E=1019622.3 ELEV=179.28
#5004 FOUND 1/2" REBAR AND CAP "LS 36792 86894 PLS" SURVEY PROPERTY CORNER N=498419.25 E=1019788.15 ELEV=182.70
#5005 FOUND PK NAIL W/ LS WASHER "LS 18988" SURVEY PROPERTY CORNER N=498399.01 E=1019232.59 ELEV=173.57
#5006 FOUND 1/2" REBAR AND CAP "EAB LS 18986" SURVEY PROPERTY CORNER N=498892.95 E=1019573.02 ELEV=172.95
#5008 FOUND 5/8" REBAR AND CAP CAP ILLEGIBLE SURVEY PROPERTY CORNER N=498569.41 E=1019026.58 ELEV=173.32
#5009 FOUND 1/2" REBAR AND CAP "EAB LS 18986" SURVEY PROPERTY CORNER N=498548.82 E=1018906.77 ELEV=171.98
#5010 FOUND 5/8" REBAR AND CAP CAP ILLEGIBLE SURVEY PROPERTY CORNER N=498564.69 E=1019124.58 ELEV=174.26
#5082 FOUND 3" BRASS DISK SURVEY MONUMENT IN CASE N=498895.63 E=1019491.50 ELEV=187.80
#5083 FOUND TACK IN CONCRETE SURVEY MONUMENT IN CASE N=498283.16 E=1019499.96 ELEV=177.51
#5087 FOUND 1-1/4" INSIDE DIAMETER IRON PIPE AND CAP "LS 936" SURVEY PROPERTY CORNER N=498292.81 E=1019482.41 ELEV=177.72
#5149 FOUND MAG NAIL AND LS WASHER "LS 16908" SURVEY PROPERTY CORNER N=498292.81 E=1019482.41 ELEV=177.72

UTILITY COMPANY CONTACTS:

Table with columns: DISTRICT, COMPANY, MARKING CONCERNS, SERVICE. Lists utility providers like AT&T CORP, CITY OF CHEHALIS, LOCAL ACCESS COMM, LEWIS CO PUD, LEVEL 3 NOW CENTURYLINK, MCI, PUGET SOUND ENERGY GAS, QLNWA16, WSDOT07.

UTILITY NOTES:

WASHINGTON UTILITY NOTIFICATION CENTER WAS CONTACTED MARCH 19, 2020 (DLR TICKET #550001483). UTILITY LOCATIONS ARE GATHERED BY MEASUREMENTS TO SURFACE MARKS AND LOCATION PAINT PROVIDED BY THE UTILITIES IN THE FIELD. THE SITE WAS LAST VISITED 04-03-2020 TO FIELD TIE LOCATE MARKINGS--NO LOCATE MARKS WERE FOUND.

WARNING:

WASHINGTON UTILITY NOTIFICATION CENTER MUST BE NOTIFIED AT 800-424-5555 OR 811 PRIOR TO ANY CONSTRUCTION OR UNDERGROUND UTILITY LOCATION.

SURVEYOR MAKES NO GUARANTEE OF THE UNDERGROUND UTILITIES SHOWN IN THE AREA. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. UTILITY LOCATIONS ARE GATHERED BY MEASUREMENTS TO SURFACE MARKS AND LOCATION PAINT PROVIDED BY THE UTILITIES IN THE FIELD.

SURVEY REFERENCES:

- 1. ROS, VOL 29 OF SURVEYS, PAGE 144, BUTLER LS 36792
2. ROS, VOL 3 OF SURVEYS, PAGE 201, GIBBS LS 936
3. ROS, VOL 20 OF SURVEYS, PAGE 27, BLUHM LS 29269
4. ROS, VOL 16 OF SURVEYS, PAGE 221, FRAZIER LS 16908
5. ROS, VOL 3 OF SURVEYS, PAGE 206, GIBBS LS 936
6. ROS, APN 3055243, IVEY LS 29269

RIGHT-OF-WAY DISCLAIMER

THE RIGHT-OF-WAY AND/OR PROPERTY LINES SHOWN HEREON ARE BASED ON AVAILABLE INFORMATION, NOT ON A SURVEYED LOCATION AND ARE ONLY APPROXIMATE

MONUMENT NOTES:

- 1. IN ACCORDANCE WITH THE PROVISIONS OF WASHINGTON ADMINISTRATIVE CODE (WAC) CHAPTER 332-120 AND THE REVISED CODE OF WASHINGTON (RCW) TITLE 58; ANY MONUMENT SHOWN ON THIS PLAN SET OR FOUND IN THE FIELD WHICH CANNOT BE PROTECTED AND WILL BE DESTROYED, SHALL BE REFERENCED BY A LICENSED SURVEYOR, AND AN APPLICATION FILED WITH THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES (DNR), PER WAC 322-120-050 PRIOR TO THE MONUMENT BEING DISTURBED OR DESTROYED.
2. ANY MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED IN ACCORDANCE WITH WAC CHAPTER 332-120.
3. NO PART OF THIS STATEMENT SHALL RELIEVE A CONTRACTOR OR THEIR SURVEYOR OF ANY OF THE PROVISIONS OF THE WAC OR RCW WITH REGARDS TO DUTIES AND RESPONSIBILITIES RELATED TO SURVEY MONUMENTATION AND ITS PRESERVATION OR REPLACEMENT.

PURPOSE:

THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR CIVIL ENGINEERING AND ARCHITECTURAL DESIGN THIS IS NOT A BOUNDARY SURVEY

DRAWING SETTINGS:

UNITS TO SCALE INSERTED CONTENT: US SURVEY FOOT NAD83 WASHINGTON STATE PLANES, SOUTH ZONE, US FOOT MODEL SPACE ANNOTATION SCALE 1"=20 US FEET PAPER SPACE SCALE 1"=30 US FEET

CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS INTERVALS: MINOR CONTOURS: 1 FOOT MAJOR CONTOURS: 5 FEET

BASIS OF BEARING: NORTH 10°35'17" EAST BETWEEN MONUMENTS NO. 5083 AND NO.1, WASHINGTON COORDINATE SYSTEM, SOUTH ZONE 4602, NAD 83/2011 (GEOID 12B) AND NAVD88 DERIVED FROM WASHINGTON STATE REFERENCE NETWORK (WSRN) STATION: CROK3

MONUMENT #1 N: 498892.95 E: 1019573.02 EL: 189.25 LAT: N046° 40' 28.9930" LON: W122° 58' 25.4137"

MONUMENT #5083 N: 498283.16 E: 1019459.03 EL: 177.51 LAT: N046° 40' 22.9410" LON: W122° 58' 26.7734" SCALE: 0.99991577 CONVERGENCE: -001° 47' 49.8427"

UNLESS OTHERWISE NOTED, DISTANCES ARE GRID DISTANCES. TO CALCULATE GROUND DISTANCE, DIVIDE GRID DISTANCE BY THE SCALE FACTOR: 0.99991577

NOTE:

WORK PERFORMED USING A 2 SECOND TOPCON GT-502 ROBOTIC TOTAL STATION, TOPCON GR-5 GPS-RTK EQUIPMENT, PRECISION EXCEEDS REQUIREMENTS OF W.A.C. 332-130-090

GIBBS & OLSON, INC., MAKES NO WARRANTIES AS TO MATTERS OF UNWRITTEN TITLE, SUCH AS ACQUIESCENCE, ESTOPPEL, ADVERSE POSSESSION, ETC.

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE

Table with columns for revision number, date, and description.

EXISTING CONDITIONS PLAN

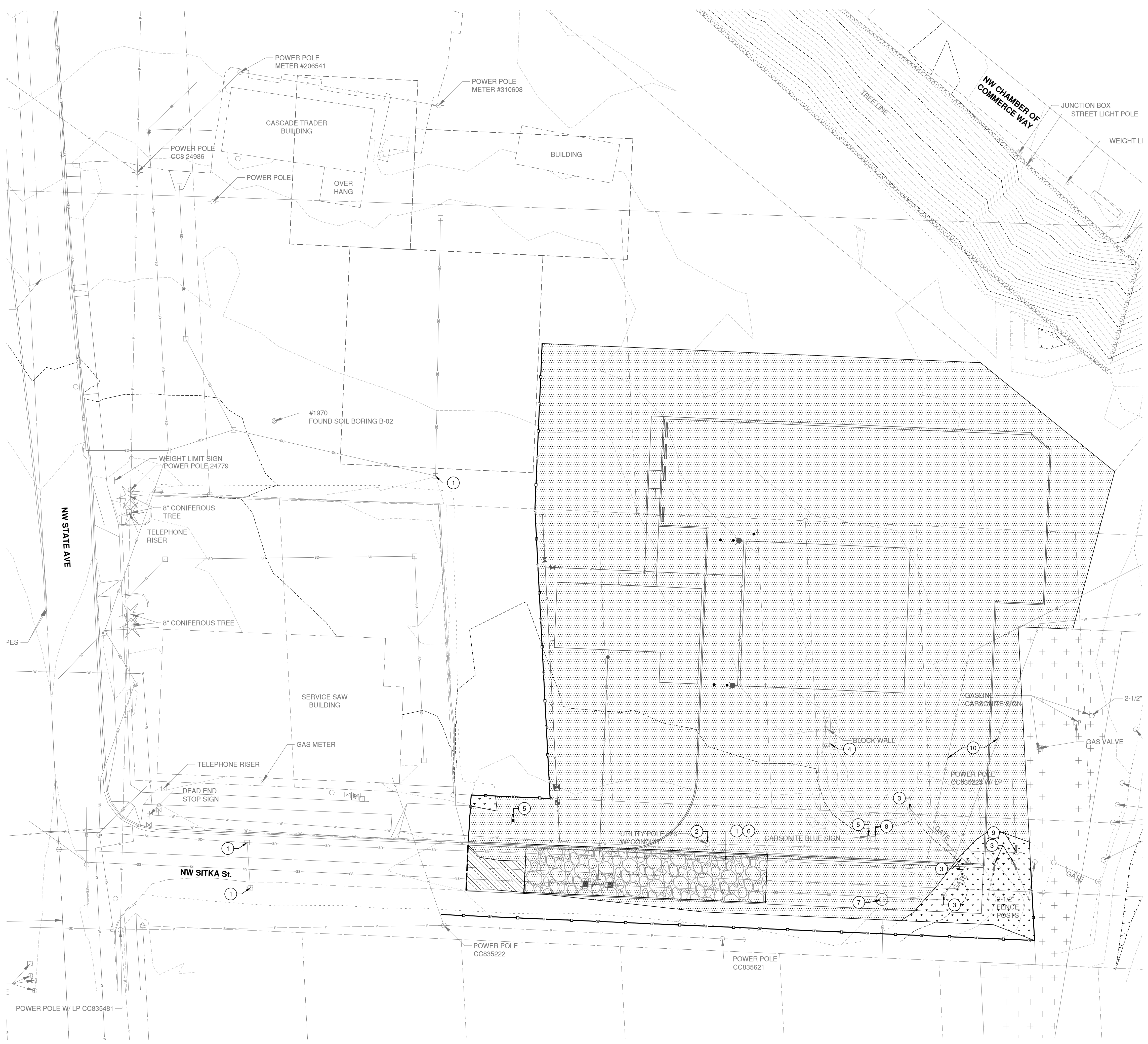
SHEET #

C00.02



Scale: (in Feet)  
0 10 20 40

- LEGEND:**
- SAWCUT LINE
  - SILT FENCE
  - [Patterned Box] CLEARING AND GRUBBING
  - [Hatched Box] REMOVE EXISTING ASPHALT PAVEMENT
  - [Dotted Box] REMOVE EXISTING GRAVEL
  - [Patterned Box] STABILIZED CONSTRUCTION ENTRANCE PER DETAIL C11.01
- DEMOLITION & EROSION CONTROL CONSTRUCTION NOTES:**
- ① INSTALL INLET PROTECTION PER DETAIL C11.01
  - ② REMOVE EXISTING UTILITY POLE
  - ③ REMOVE EXISTING FENCE, GATE AND POSTS
  - ④ REMOVE EXISTING BLOCK WALL
  - ⑤ RELOCATE EXISTING SIGN
  - ⑥ PROTECT EXISTING DRAINAGE STRUCTURE
  - ⑦ PROTECT EXISTING SANITARY SEWER STRUCTURE
  - ⑧ REMOVE EXISTING WATER METER AND METER BOX. ABANDON EXISTING WATER SERVICE LINE AND CAP AT EXISTING WATER MAIN
  - ⑨ PROTECT EXISTING UTILITY POLE
  - ⑩ PROTECT EXISTING WATER MAIN



**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

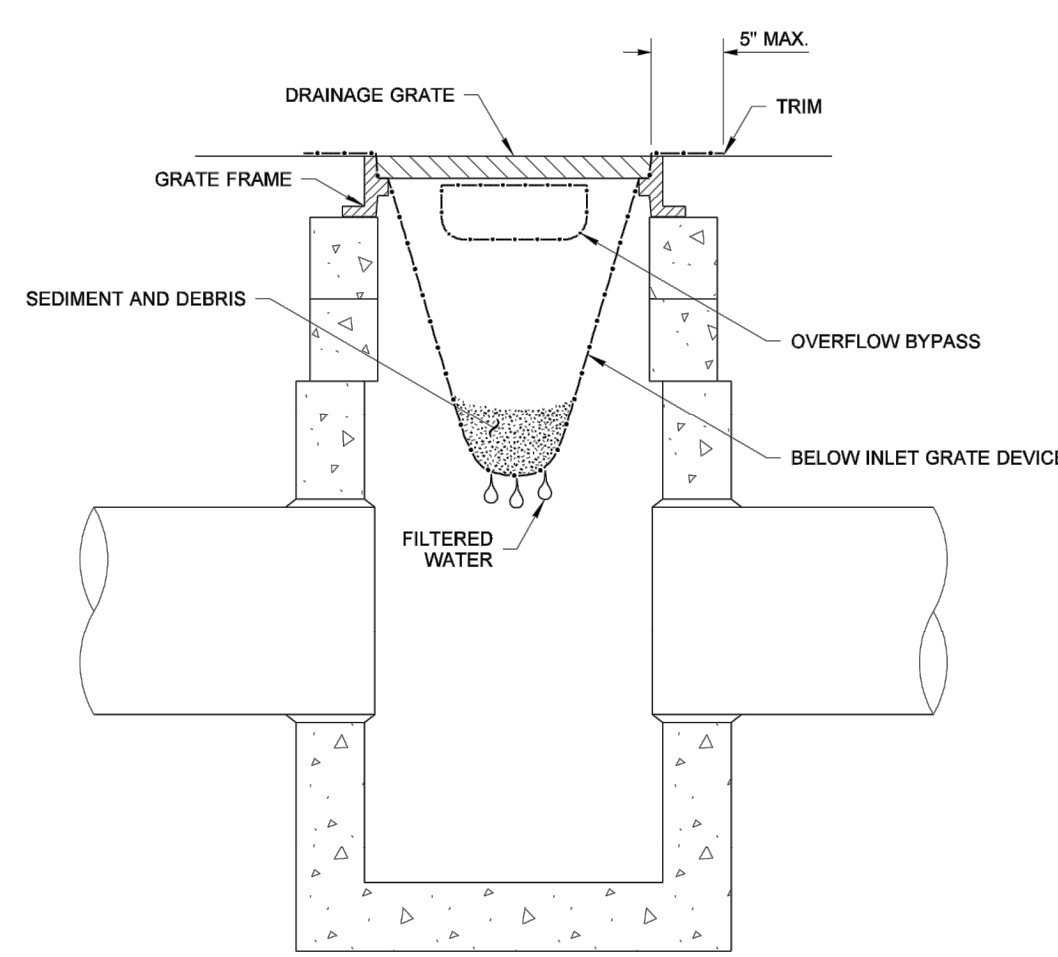
REVISION SCHEDULE	

SITE PREPARATION & TESC PLAN

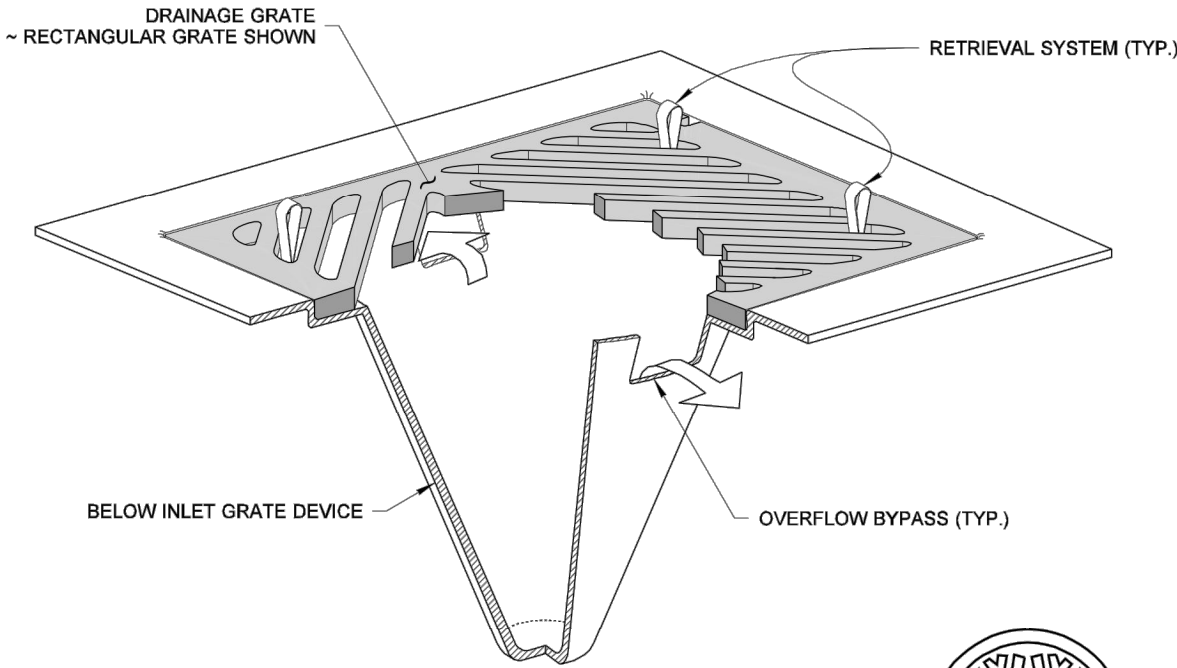
SHEET #  
**C10.01**

DATE/TIME PRINTED: 4/15/2021 1:15:47 PM  
T:\Projects\0155 Chehalis\082A Temporary Fire Station\Contract Drawings\0155.1082A Site Prep Plan.dwg

DRAWN BY: LISA CYFORD



SECTION VIEW  
NOT TO SCALE



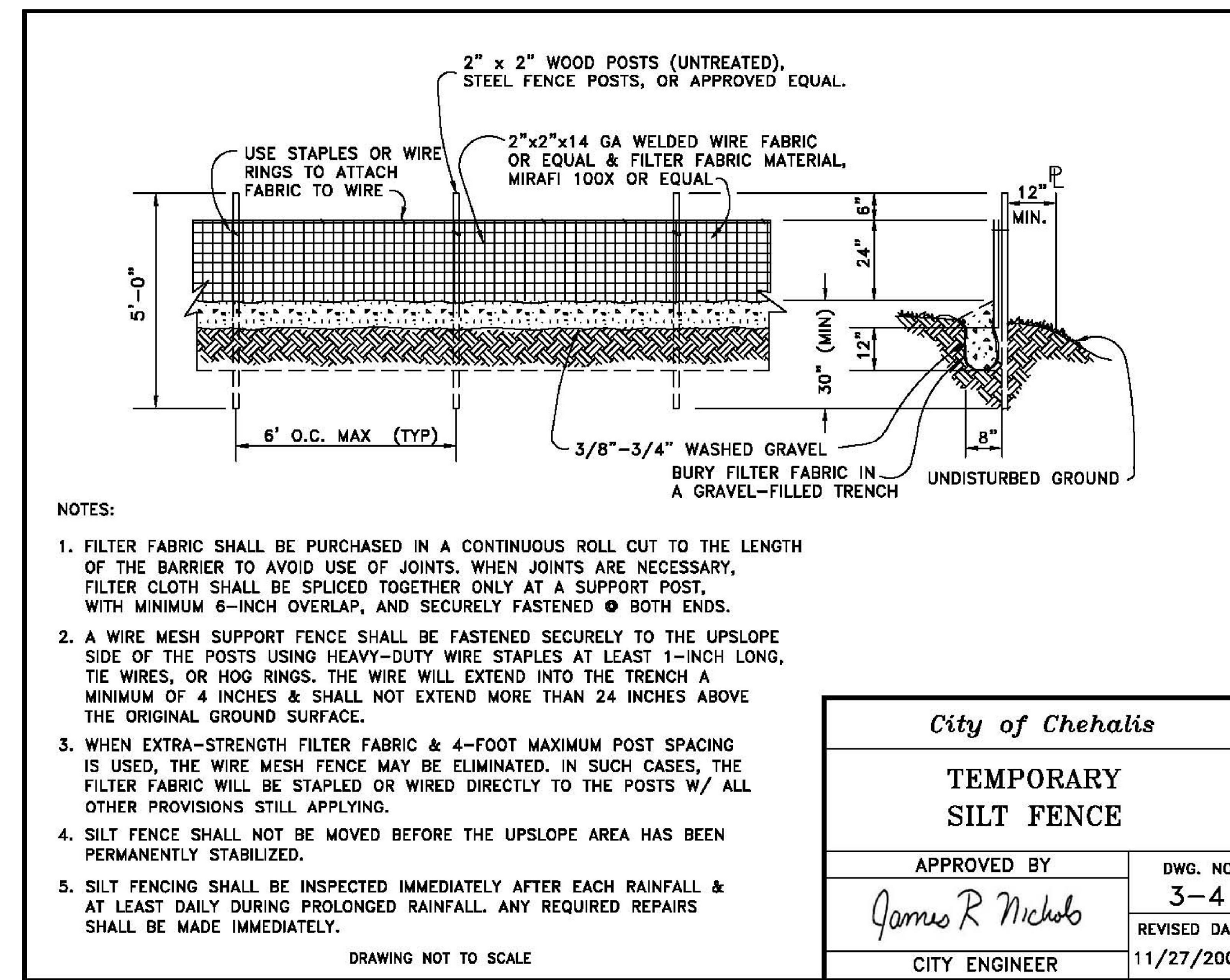
ISOMETRIC VIEW

- NOTES**
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
  2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
  3. The retrieval system must allow removal of the BIGD without spilling the collected material.
  4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

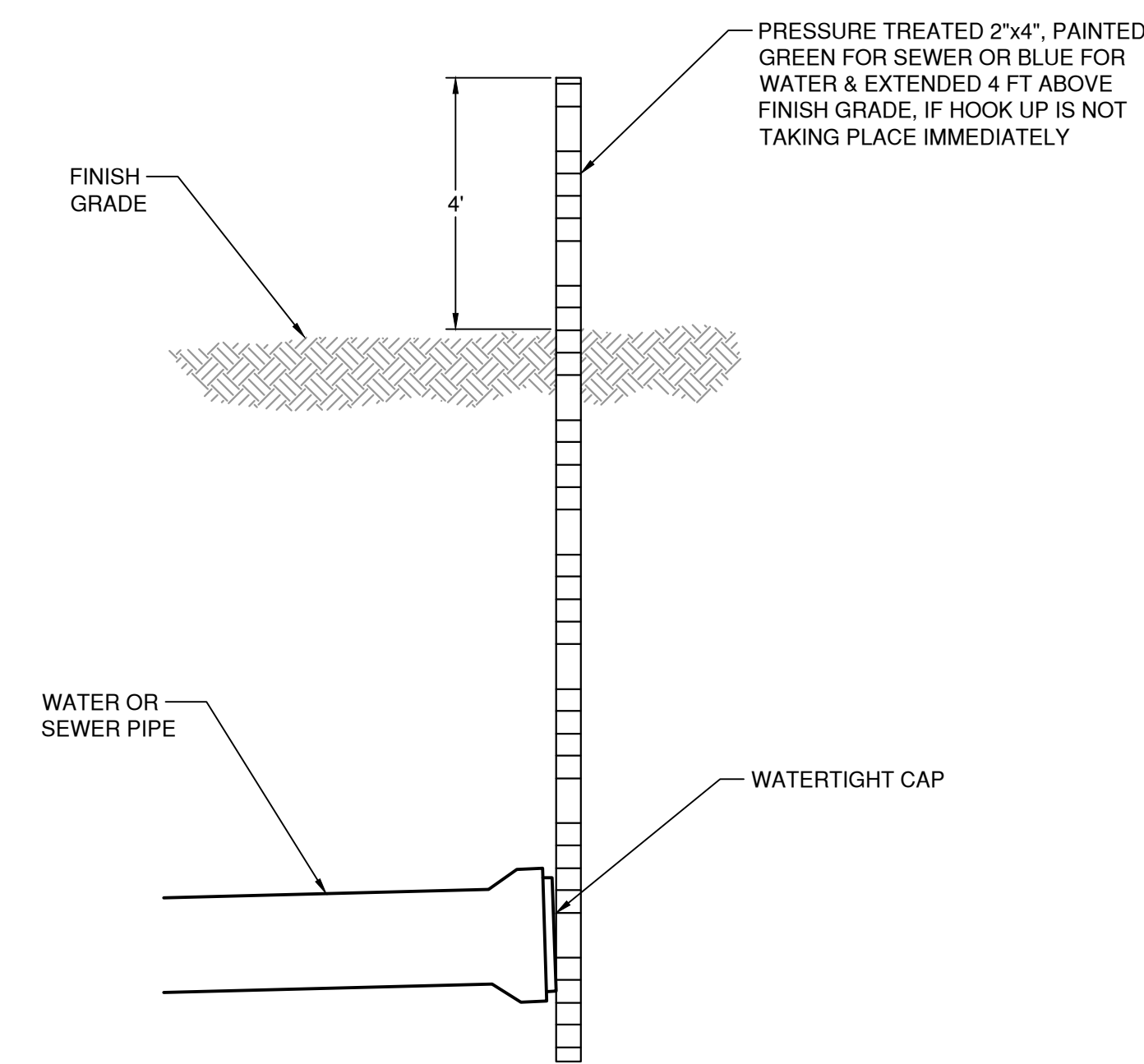
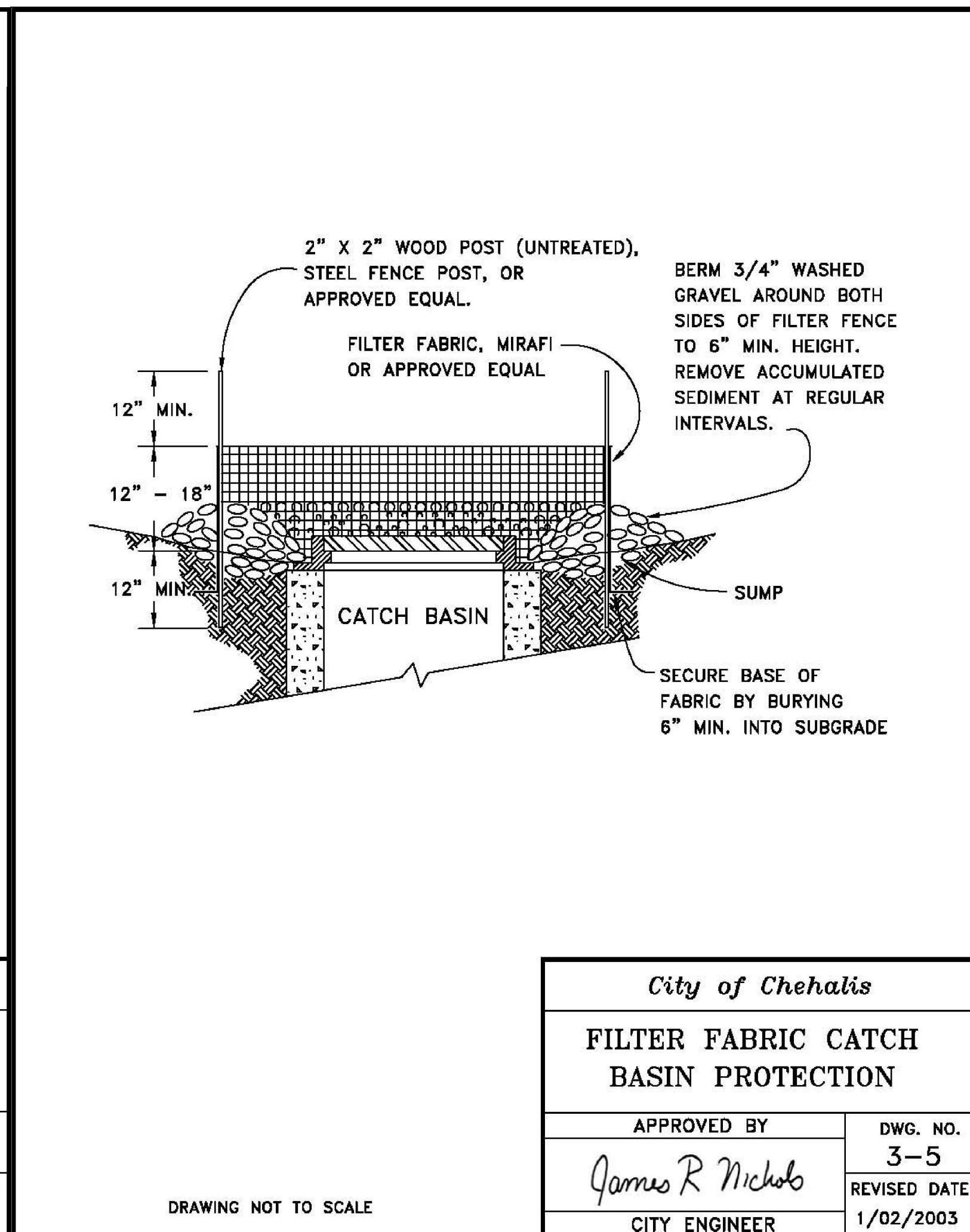
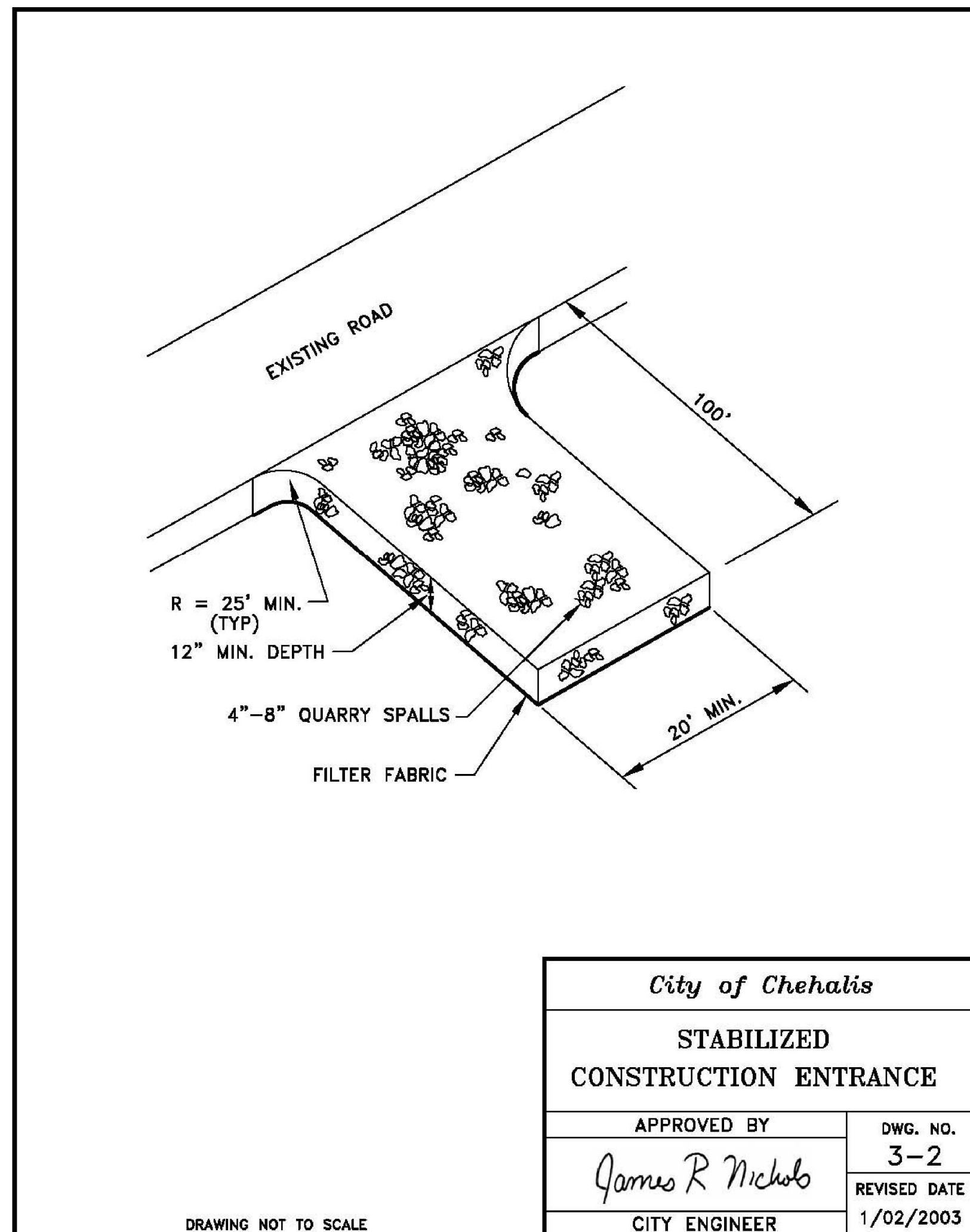
STATE OF WASHINGTON  
REGISTERED  
LANDSCAPE ARCHITECT  
**MARK W. MAURER**  
CERTIFICATE NO. 000568

NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT. THE ARCHITECT ASSUMES NO LIABILITY FOR THE DESIGN OR CONSTRUCTION OF ANY STRUCTURE OR EQUIPMENT. THE ARCHITECT'S RESPONSIBILITY IS LIMITED TO THE DESIGN OF LANDSCAPE ARCHITECTURE. A CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES.

**STORM DRAIN  
INLET PROTECTION  
STANDARD PLAN I-40.20-00**  
SHEET 1 OF 1 SHEET  
APPROVED FOR PUBLICATION  
**Pasco Bakotich III** 09-20-07  
STATE DESIGN ENGINEER  
Washington State Department of Transportation



<i>City of Chehalis</i>	
<b>TEMPORARY SILT FENCE</b>	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	<b>3-4</b>
CITY ENGINEER	REVISED DATE
	11/27/2002



**Utility Marker Post Detail**  
N.T.S.

**RICE**fergus**MILLER**  
ARCHITECTURE INTERIORS PLANNING VIZLAB  
275 FIFTH STREET, SUITE 100  
BREMERTON, WA 98337  
360-377-8773  
RFMARCH.COM

**GIBBS & OLSON**  
www.gibbs-olson.com

**AROL L. HUIZ**  
REGISTERED  
PROFESSIONAL ENGINEER  
04/15/2021

**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

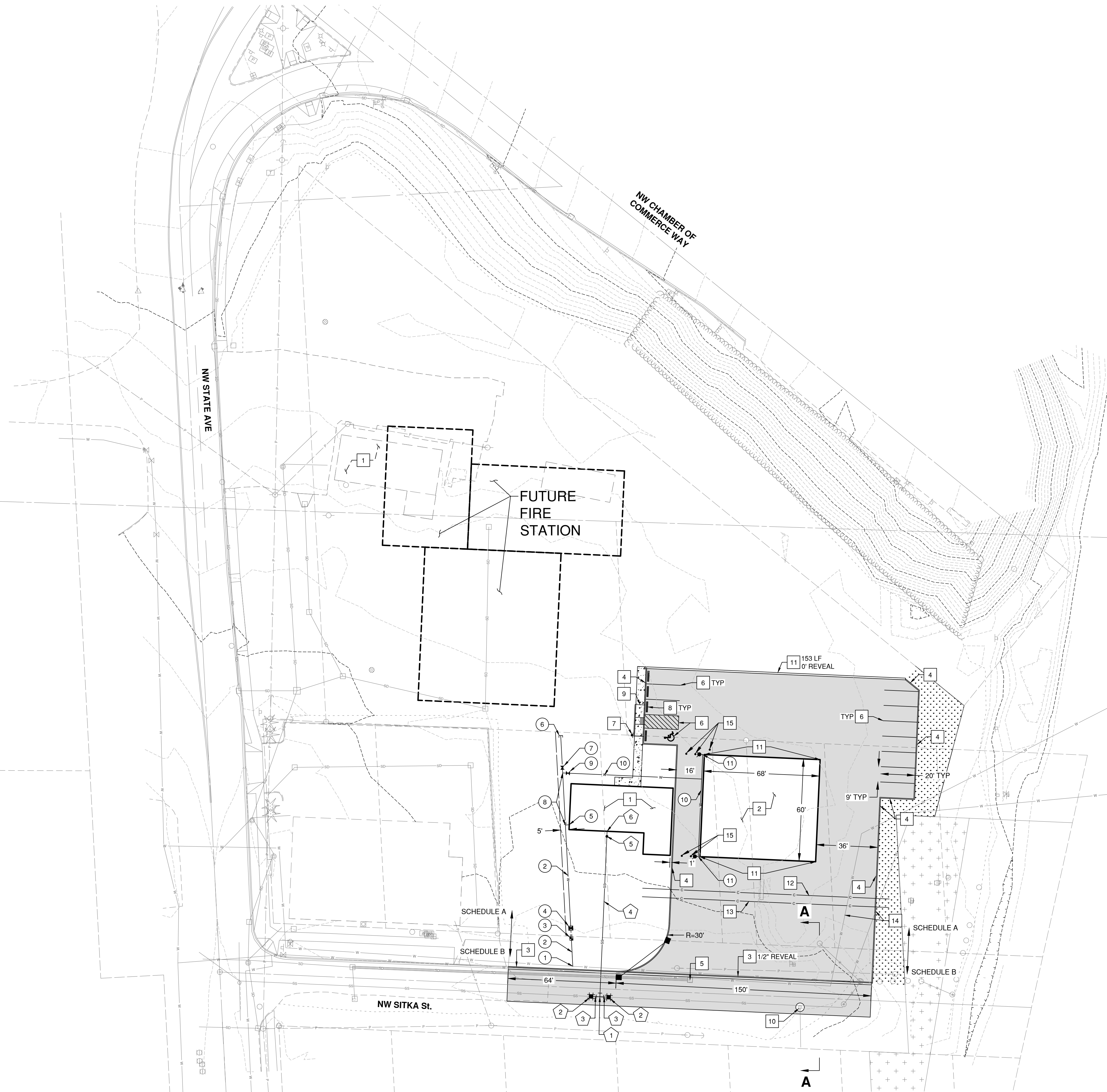
ISSUE DATE 4/15/2021

REVISION SCHEDULE

SITE PREPARATION &  
TESC DETAILS

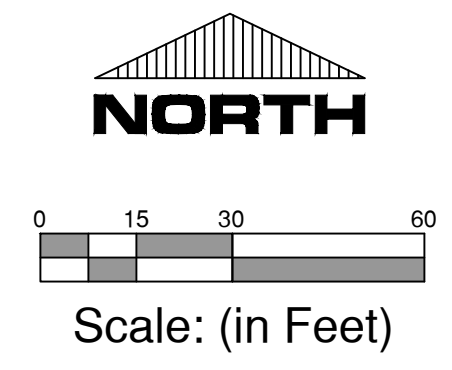
SHEET #

**C11.01**



**LEGEND:**

- COUPLING
- TEE
- CLEANOUT
- CAP
- VALVE
- YARD HYDRANT
- DOUBLE CHECK BACKFLOW PREVENTER
- WATER METER
- WATER LINE
- SANITARY SEWER LINE



- 4" HMA OVER 12" CSBC MIN OVER GEOTEXTILE FOR SEPARATION
- CEMENT CONCRETE SIDEWALK PER CITY OF CHEHALIS STD DWG 2-9, 2-10
- SEEDING OVER 8-INCH TOPSOIL

- SEWER CONSTRUCTION NOTES:**
- 1 INSTALL 6-INCH X 6-INCH SANITARY SEWER TEE
  - 2 CONNECT TO EXISTING SANITARY SEWER W/ FERMACO STRONGBACK, ROMAC 501 OR APPROVED EQUAL COUPLING PER CITY OF CHEHALIS STD DWG 5-14
  - 3 INSTALL 6-INCH ASTM 3034 SDR 35 PVC SANITARY SEWER PIPE
  - 4 INSTALL 6-INCH ASTM 3034 SDR 35 PVC SANITARY SEWER SERVICE LATERAL CONNECTION PER CITY OF CHEHALIS STD DWG 5-10
  - 5 INSTALL SIDE SEWER CLEANOUT PER CITY OF CHEHALIS STD DWG 5-11
  - 6 EXTEND SANITARY SEWER AND STUB 5 FEET FROM MODULAR BUILDING LOCATION AT CLEANOUT

- WATER CONSTRUCTION NOTES:**
- 1 INSTALL SERVICE SADDLE FOR DOMESTIC WATER LINE ON EXISTING 12-INCH DIAM DUCTILE IRON WATER MAIN
  - 2 INSTALL 2-INCH SDR 9 HDPE DOMESTIC WATER LINE
  - 3 INSTALL 1 1/2-INCH WATER METER PER CITY OF CHEHALIS STD DWG 4-3
  - 4 INSTALL 2-INCH DOUBLE CHECK BACKFLOW PREVENTER BELOW GROUND PER CITY OF CHEHALIS STD DWG 4-18
  - 5 EXTEND DOMESTIC WATERLINE AND STUB 5 FEET FROM MODULAR BUILDING LOCATION WITH UTILITY MARKER POST PER DETAIL, SHT C11.01
  - 6 INSTALL 2-INCH HDPE CAP AND UTILITY MARKER POST PER DETAIL ON SHEET C11.01
  - 7 INSTALL 2-INCH THREADED PVC BALL VALVE AND VALVE BOX PER CITY OF CHEHALIS STD DWG 4-12
  - 8 INSTALL 2-INCH X 1-INCH SERVICE SADDLE OR TEE
  - 9 INSTALL 1-INCH THREADED PVC BALL VALVE AND VALVE BOX PER CITY OF CHEHALIS STD DWG 4-12
  - 10 INSTALL 1-INCH HDPE SDR 9 DOMESTIC WATER LINE
  - 11 INSTALL FREE STANDING, FROST-FREE YARD HYDRANT

- SITE CONSTRUCTION NOTES:**
- 1 RELOCATE EXISTING MODULAR BUILDING FOR TEMPORARY LIVING QUARTERS (BY OTHERS)
  - 2 TEMPORARY FIRE APPARATUS BAY (CONSTRUCTED BY OTHERS)
  - 3 CONSTRUCT CEMENT CONC TRAFFIC CURB AND GUTTER PER CITY OF CHEHALIS STD PLAN 2-7
  - 4 CONSTRUCT CEMENT CONC TRAFFIC CURB PER WSDOT STD PLAN F-10.12-04
  - 5 ADJUST EXISTING CATCH BASIN FROM EXISTING GROUND AT 178.07 TO FINISHED GROUND AT 178.72
  - 6 INSTALL PARKING SPACE LAYOUT PER WSDOT STD PLAN M-17.10-02
  - 7 INSTALL ADA PARKING SIGN PER MUTCD SIGN R7-8
  - 8 INSTALL CEMENT CONC WHEEL STOP PER DETAIL ON SHEET C21.02
  - 9 INSTALL CEMENT CONC CURB RAMP TYPE PARALLEL PER WSDOT STD PLAN F-40.12-03
  - 10 ADJUST EXISTING SANITARY SEWER MANHOLE FROM EXISTING GROUND AT 178.95 TO FINISHED GROUND AT 179.92. INSTALL MANHOLE COLLAR PER CITY OF CHEHALIS STD PLAN 5-3
  - 11 CONSTRUCT ASPHALT THICKENED EDGE PER DETAIL ON SHEET C21.02
  - 12 INSTALL SCHEDULE 80 PVC CONDUIT PIPE, 4 IN. DIAM. AND CAP AT EACH END. MARK EACH END WITH CARSONITE POST. FINAL LOCATION TO BE DETERMINED BY OWNER
  - 13 INSTALL SCHEDULE 80 PVC CONDUIT PIPE, 2 IN. DIAM. AND CAP AT EACH END. MARK EACH END WITH CARSONITE POST. FINAL LOCATION TO BE DETERMINED BY OWNER
  - 14 CONTRACTOR TO POT HOLE AND VERIFY THE DEPTH AND LOCATION OF THE EXISTING 6-INCH AND 12-INCH WATER LINE
  - 15 INSTALL REMOVABLE BOLLARD PER STD PLAN H-60.10-01, SHT C21.02

- GENERAL SITE NOTES:**
- 1. WITHIN ALL AREAS THAT HAVE BEEN SUBJECT TO CLEARING AND GRADING, ALL GRASS AND LANDSCAPED AREAS SHALL HAVE A MINIMUM 8-INCH SETTLED TOPSOIL LAYER PRIOR TO SEEDING AND PLANTING THAT MEETS THE CRITERIA PER BMP T5.13 IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, VOL V.



CITY OF CHEHALIS  
TEMPORARY FIRE STATION  
CHEHALIS, WASHINGTON

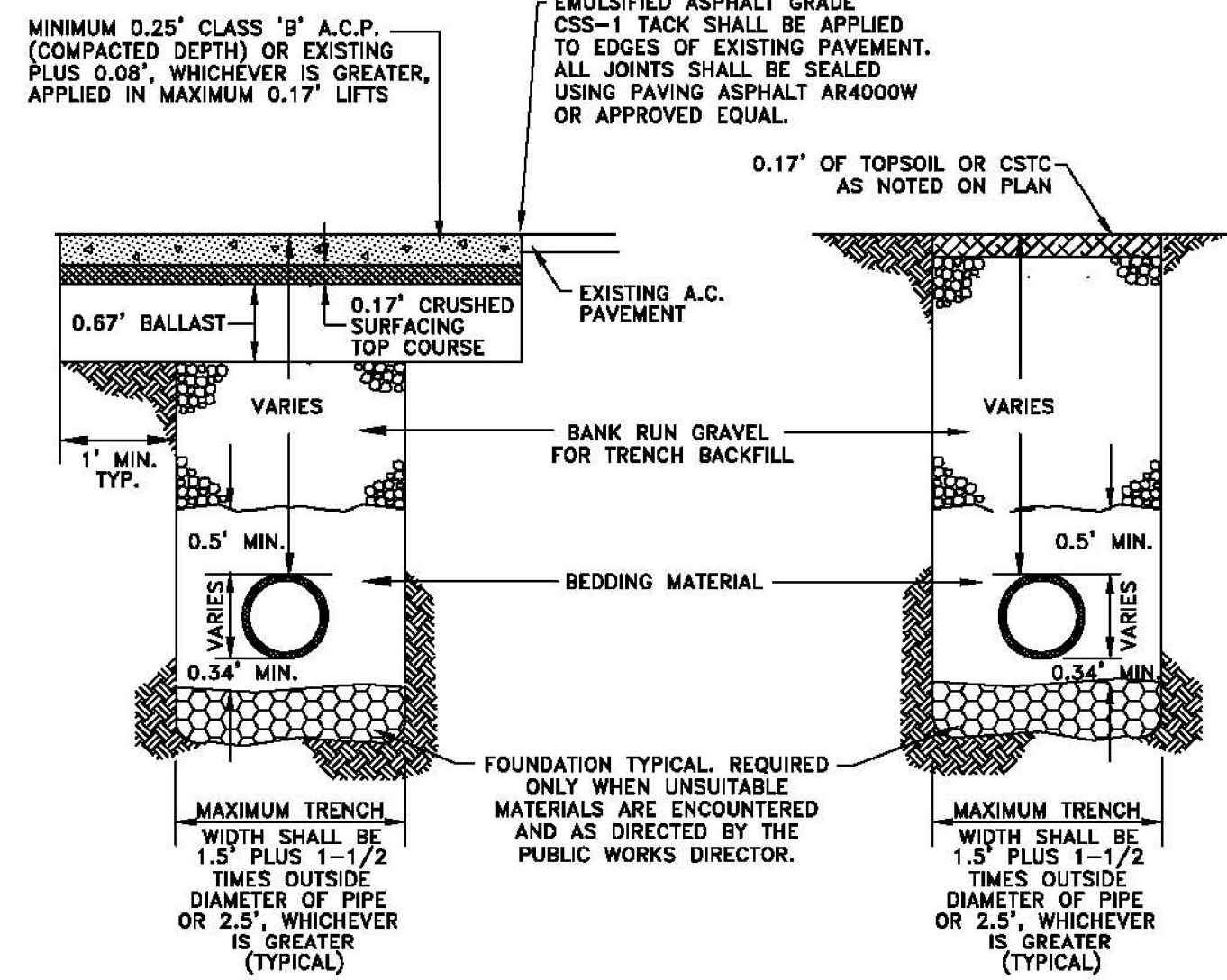
PROJECT # 0155.1082

100%
------

ISSUE DATE 4/15/2021

REVISION SCHEDULE	

SITE & UTILITY PLAN



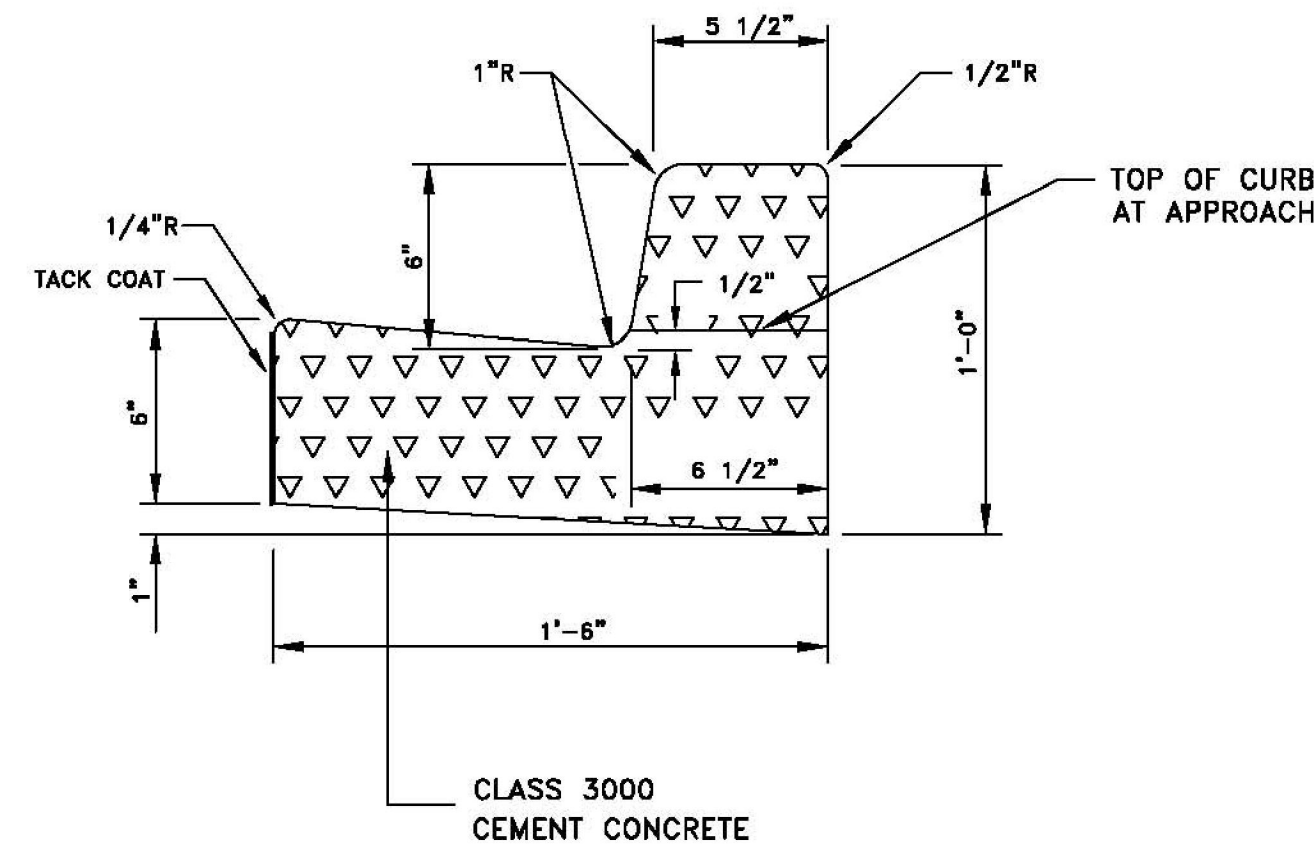
- NOTES:**
1. ALL MATERIALS EXCEPT A.C.P. AND BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY.
  2. BEDDING SHALL CONFORM TO SECTION 9-03.16 OF STANDARD SPECIFICATIONS AS AMENDED BY CITY OF CHEHALIS STANDARDS.
  3. COMPACTION: BEDDING SHALL BE COMPACTED TO 95% MAX. AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE COMPACTED TO 85% IN UNPAVED AREA, AND 95% IN PAVED OR SHOULDER AREAS AS DETERMINED BY ASTM D1557.
  4. ALL MATERIALS, WORKMANSHIP, AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST RECENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION AS AMENDED BY CITY OF CHEHALIS PUBLIC WORKS STANDARDS.
  5. KEEP TRENCH BOTTOM COMPACTED WITH UNIFORM GRADE. A BELL JOINT SHALL BE REQUIRED AT EACH JOINT FOR PROPER SUPPORT. NO TEMPORARY SUPPORTS, I.E. BLOCKS, WILL BE ALLOWED TO SUPPORT PIPE. TRENCH BOTTOM SHALL BE TO GRADE PRIOR TO PIPE INSTALLATION.

**City of Chehalis**

**TRENCH PAVEMENT RESTORATION DETAIL**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	2-4
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale



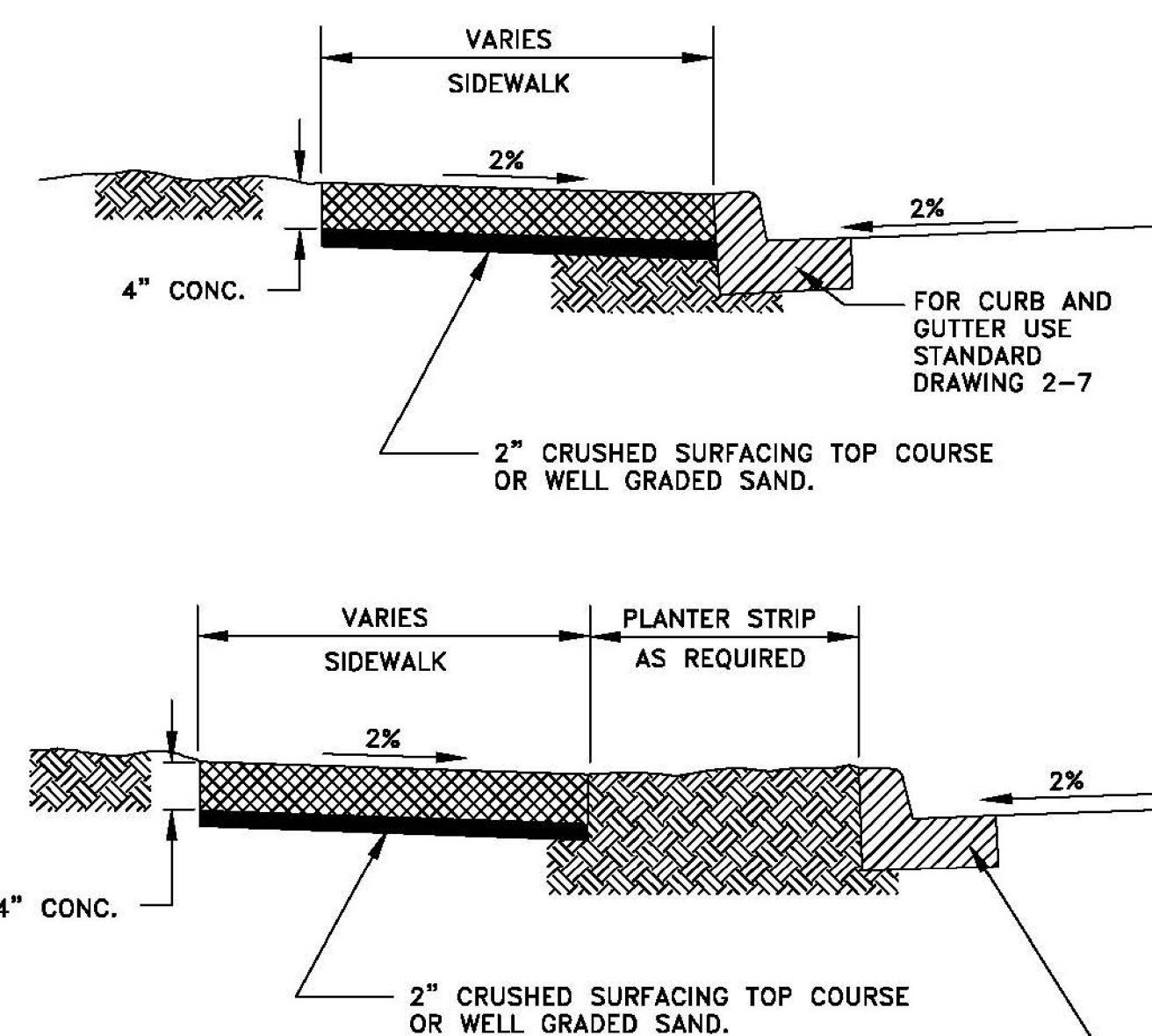
- GENERAL NOTES:**
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
  2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
  3. SUBGRADE AND BASE REQUIREMENTS SHALL BE THE SAME AS FOR PAVEMENT RESTORATION.

**City of Chehalis**

**CEMENT CONCRETE CURB & GUTTER**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	2-7
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale



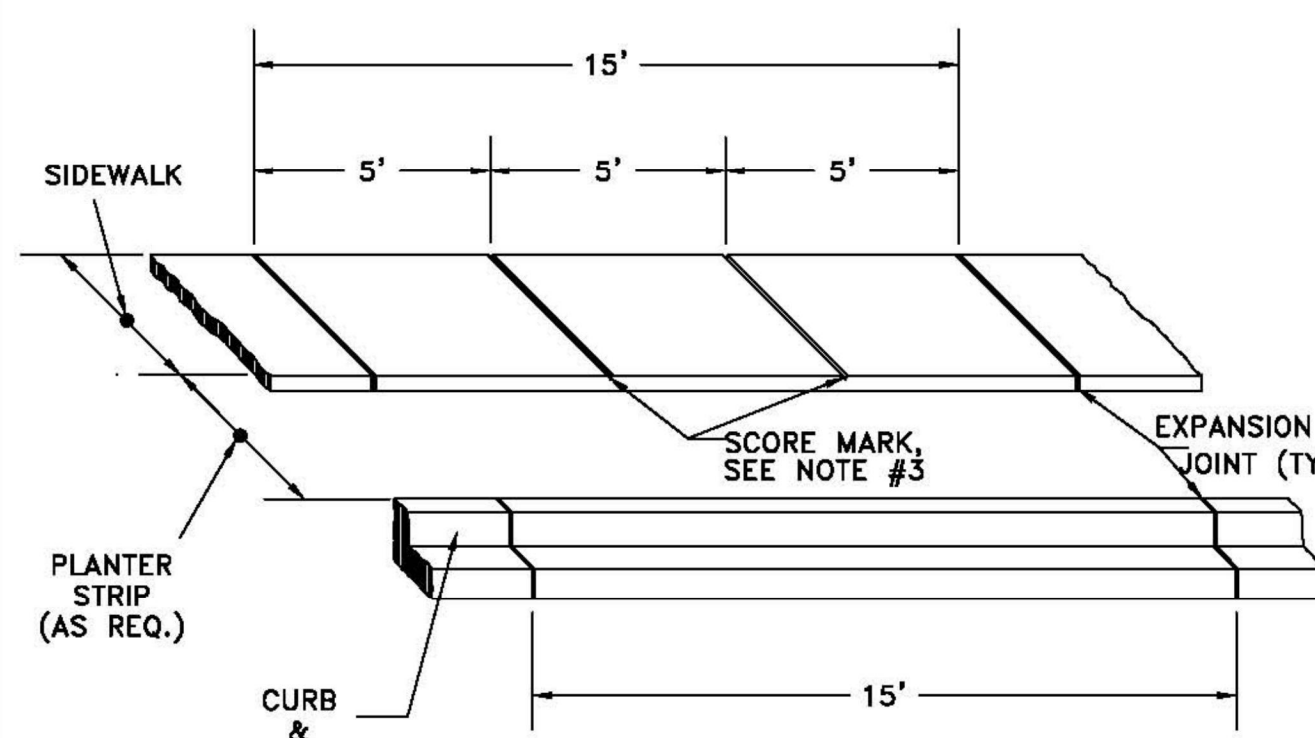
- GENERAL NOTES:**
1. REFER TO STANDARD DRAWING 2-10 FOR INFORMATION ON JOINTS AND SCORING.
  2. SIDEWALK ACROSS CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6" FOR RESIDENTIAL DRIVES & 8" FOR ALL OTHER DRIVES.
  3. WHEN CHECKED WITH A 10' STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8" INCH & ALIGNMENT SHALL NOT VARY MORE THAN 1/4" INCH.

**City of Chehalis**

**SIDEWALK**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	2-9
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale

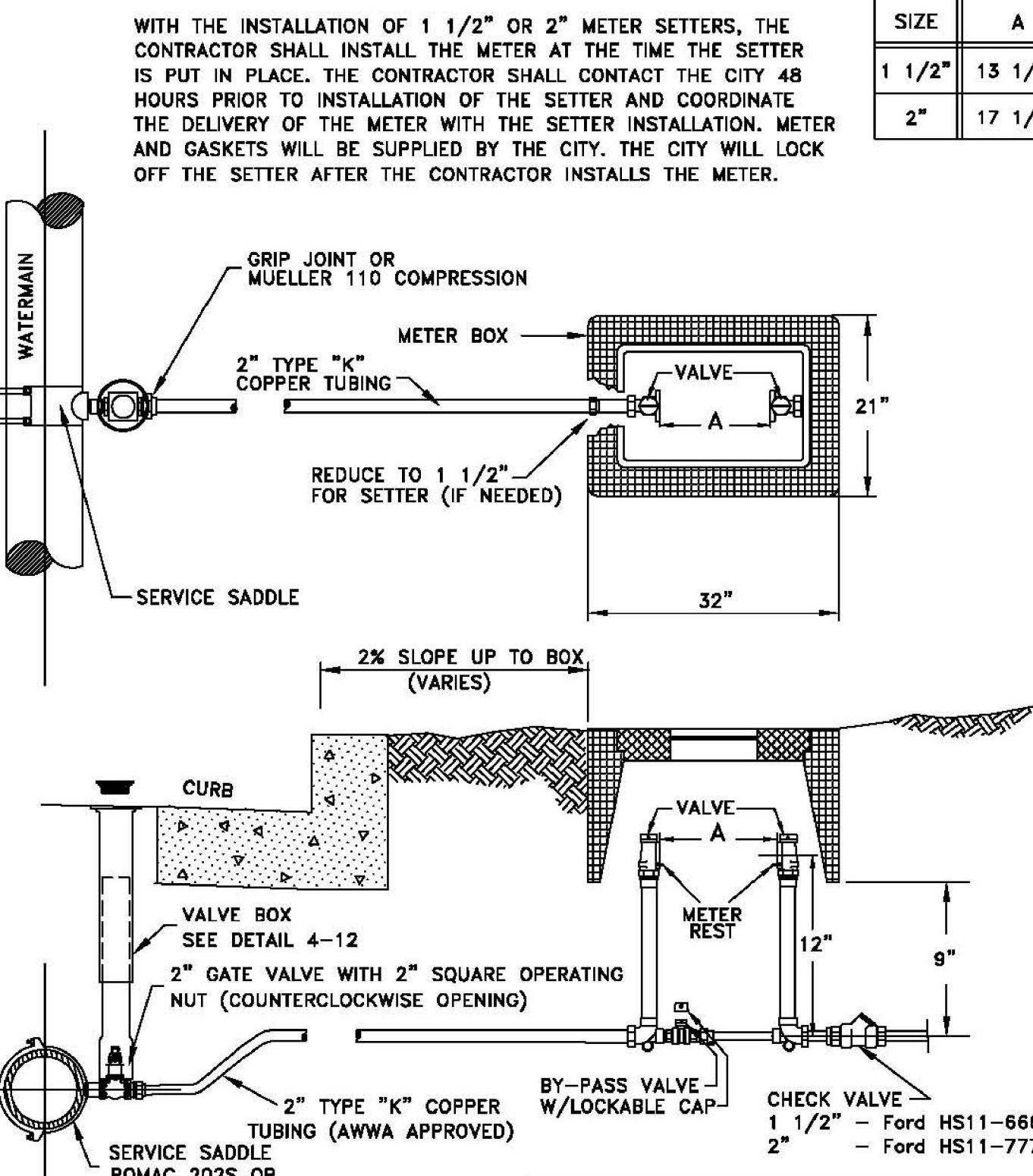


- GENERAL NOTES:**
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
  2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
  3. SCORE MARKS SHALL BE ±1/8" WIDE BY ±1/4" DEEP. FOR SIDEWALKS OVER 8" IN WIDTH, A LONGITUDINAL SCORE MARK SHALL BE MADE ALONG CENTER OF WALK.
  4. EXPANSION JOINTS SHALL BE INSTALLED IN CURB AND GUTTER AND IN SIDEWALK AT PC AND PT AT ALL CURB RETURNS. EXPANSION JOINTS SHALL BE PLACED IN SIDEWALK AT SAME LOCATIONS AS THOSE IN CURB AND GUTTER WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER, UNLESS OTHERWISE DIRECTED BY ENGINEER.

**City of Chehalis**

**SIDEWALK SPACING EXPANSION JOINTS & SCORE MARKS**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	2-10
CITY ENGINEER	REVISED DATE
	1/02/2003



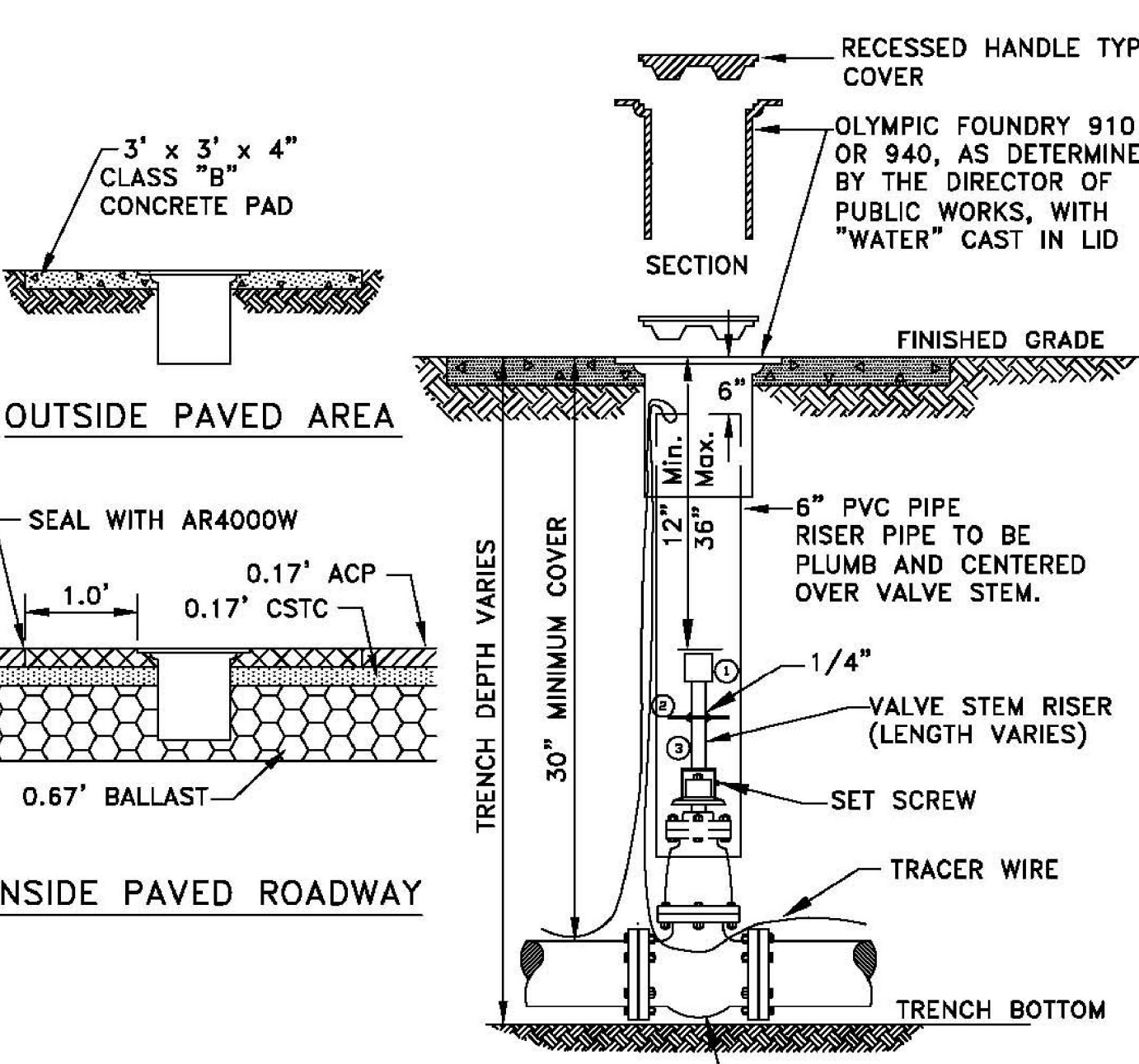
- NOTES:**
1. ALL SERVICE SADDLES SHALL HAVE RUBBER GASKET, I.P. THREADS, & STAINLESS STEEL DOUBLE STRAPS.
  2. CITY STANDARD FOR COPPER SETTERS ARE: 1 1/2" - FORD VV76-12B-13-11-66 2" - FORD VV77-12B-17-11-77
  3. THE CITY UTILIZES A TOUCH READ METER SYSTEM. METER LIDS FOR METER BOX INSTALLATIONS MUST BE DRILLED WITH A 2" HOLE TO ACCOMMODATE TOUCH PAD.

**City of Chehalis**

**1 1/2"-2" WATER SERVICE WITH BYPASS**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	4-3
CITY ENGINEER	REVISED DATE
	3/30/2005

Drawing Not to Scale



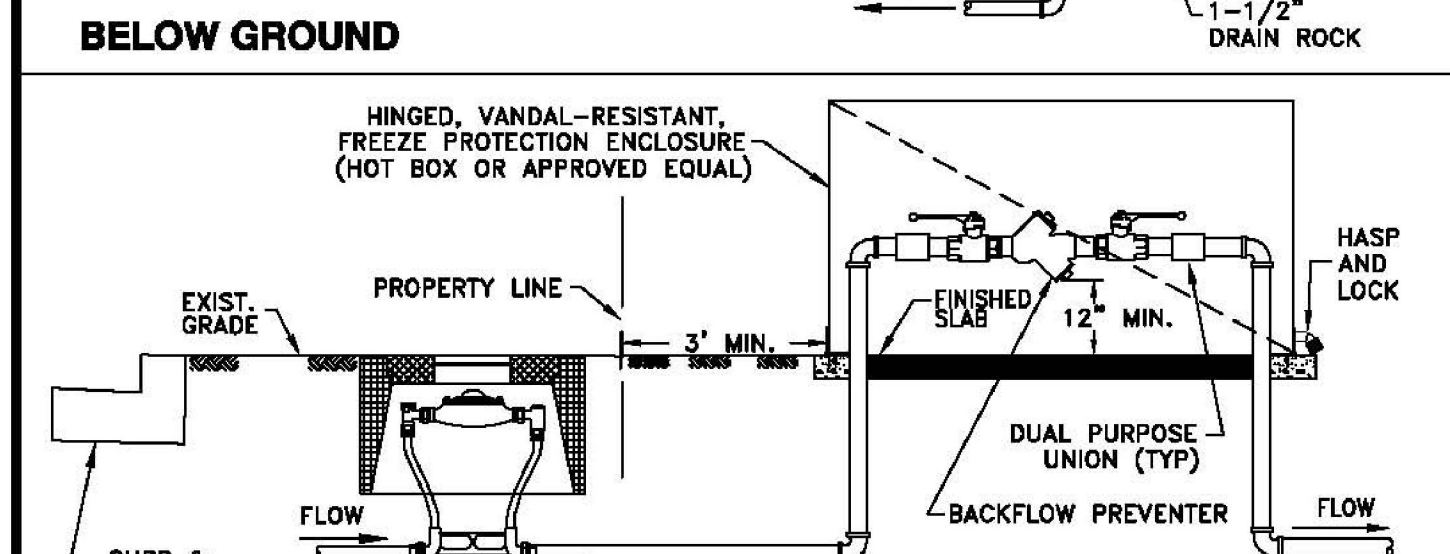
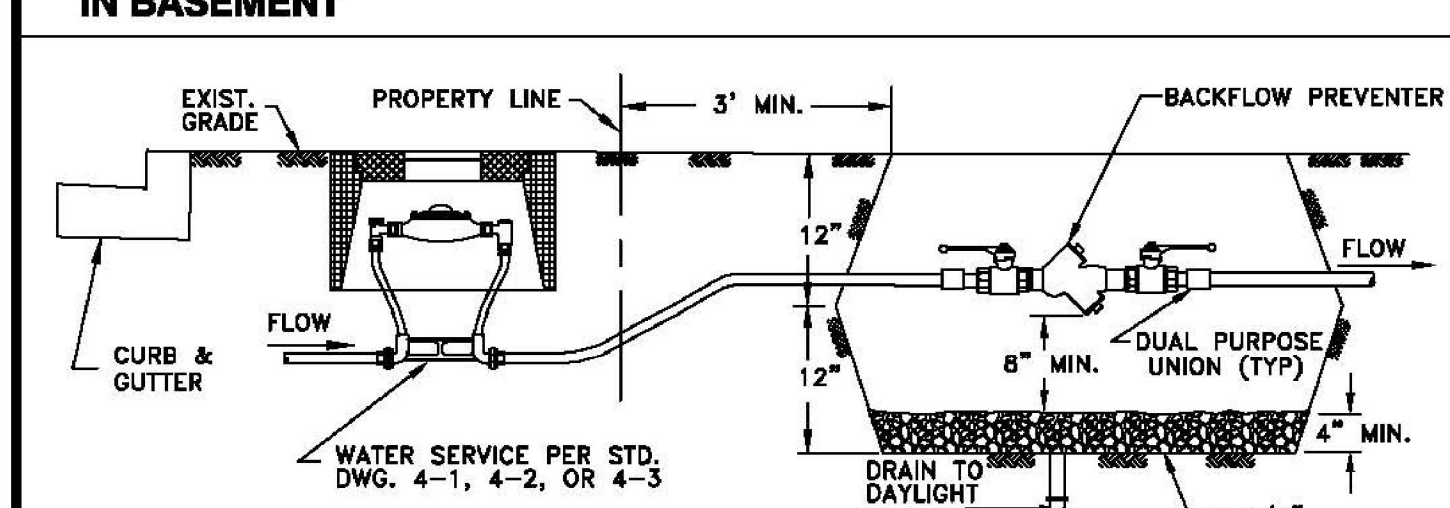
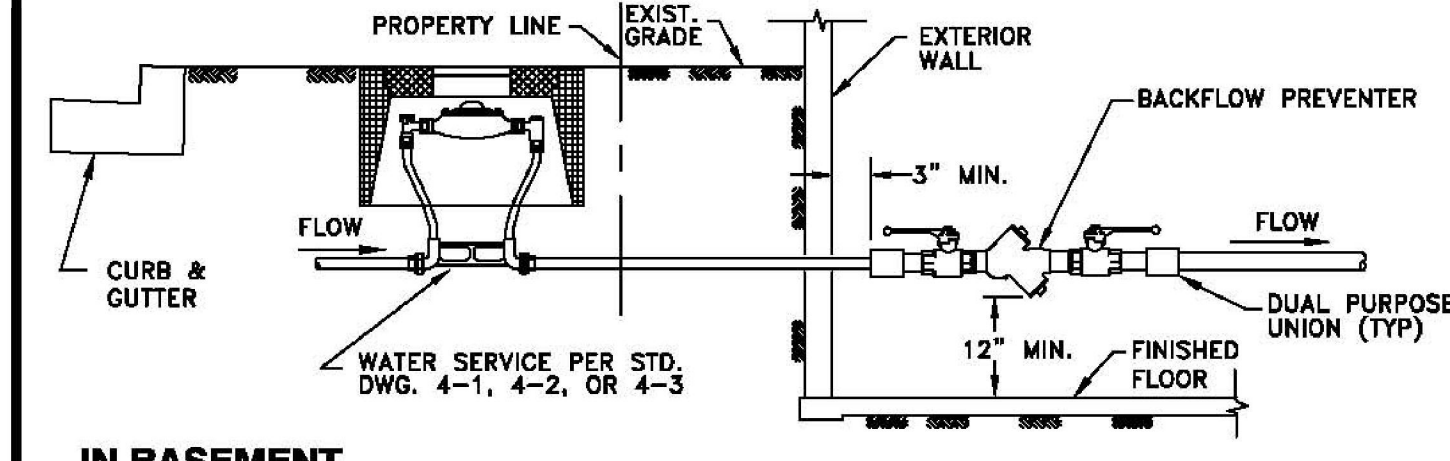
- VALVE STEM EXTENSION LEGEND**
- ① VALVE OPERATING NUT OR 1-7/8" X 1-7/8" X 2" HIGH GRADE STEEL WELDED TO GUIDE PLATE.
  - ② 3/16" THICK X 5-1/5" DIA STEEL GUIDE PLATE WELDED TO RISER SHAFT.
  - ③ 2" X 2" X 3/16" SQUARE STRUCTURAL STEEL TUBING TO FIT OPERATING NUT. LENGTH AS REQUIRED.
- NOTES:**
1. WELD ALL AROUND, AS SPECIFIED ABOVE.
  2. IN TRAFFIC LANES, OLYMPIC FOUNDRY 940 VALVE BOX SHALL BE REQUIRED.
  3. ALL VALVES MUST HAVE 14 GAUGE COATED COPPER TRACER WIRE TIED OFF @ VALVE BODY, EXTENDED WITHIN ONE FOOT OF THE SURFACE, AS SHOWN.

**City of Chehalis**

**VALVE BOX**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	4-12
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale



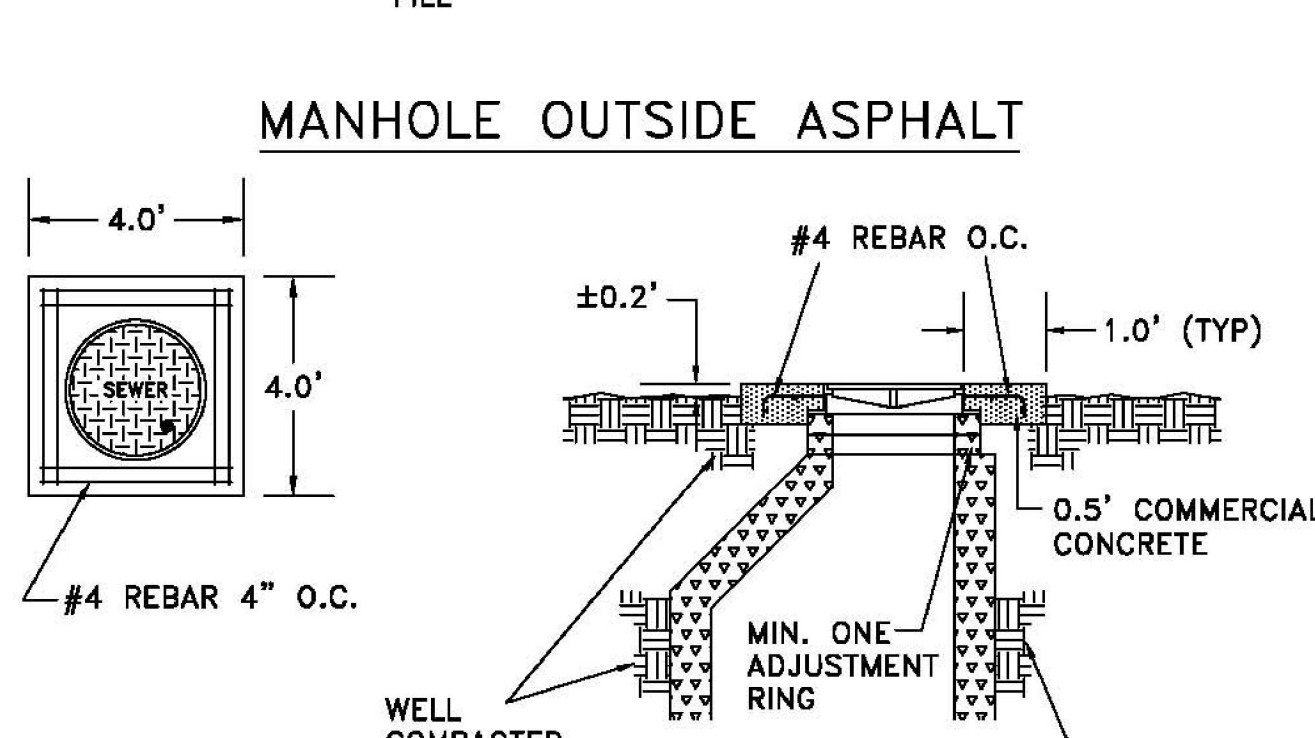
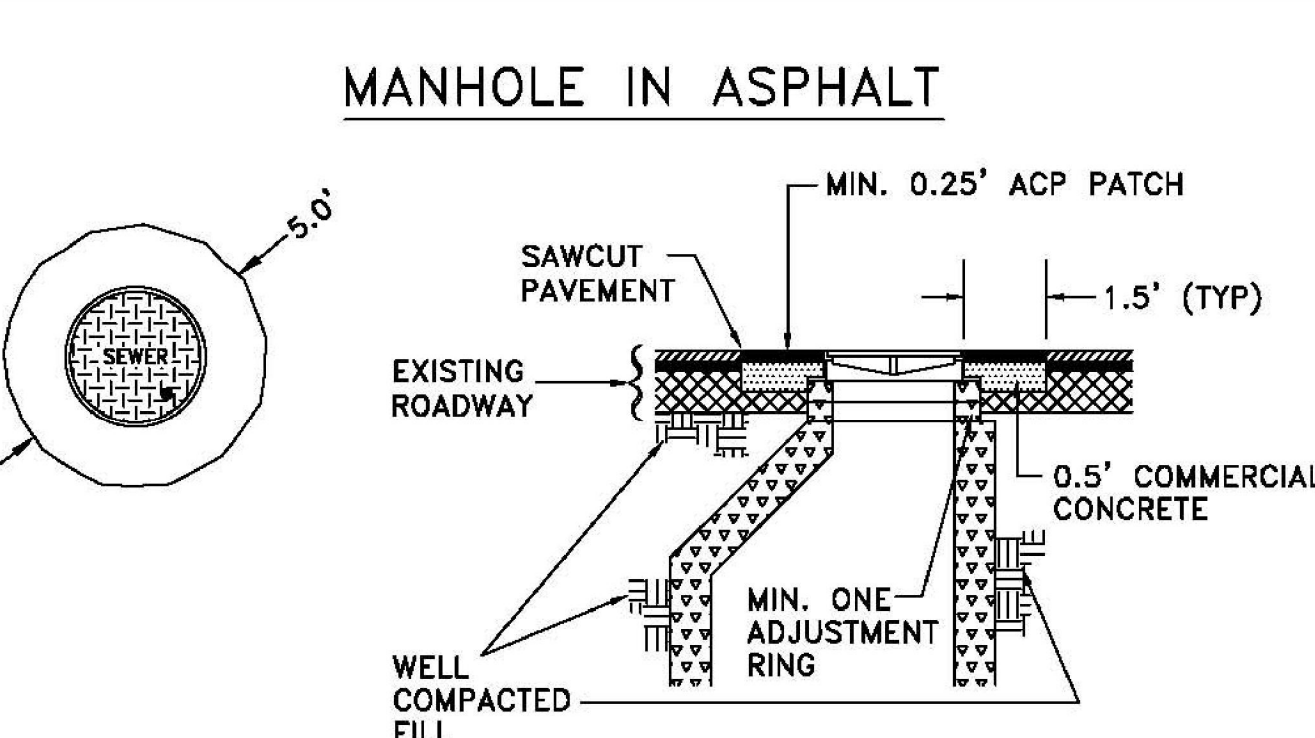
- NOTES:**
1. BACKFLOW ASSEMBLY SHALL BE A WA. STATE D.O.H. APPROVED MODEL.
  2. ALL MATERIALS TO BE BRASS OR COPPER AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.

**City of Chehalis**

**1 1/2"-2" DOUBLE CHECK BACKFLOW PREVENTER**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	4-18
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale



- NOTES:**
1. ON MANHOLE OUTSIDE ASPHALT ADD REINFORCING STEEL AS SHOWN ABOVE. DEFORMED BAR TO MEET ASTM A615 GRADE 60 FY=60,000 P.S.I.
  2. SINGLE OPENING IN LID FOR USE OF MANHOLE HOOK IS REQUIRED.
  3. JOINTS BETWEEN EACH ADJUSTMENT RING INCLUDING WHERE FRAME & MH CONE MEET RINGS, SHALL INCLUDE ACTIVATED OAKUM OR APPROVED EQUAL.

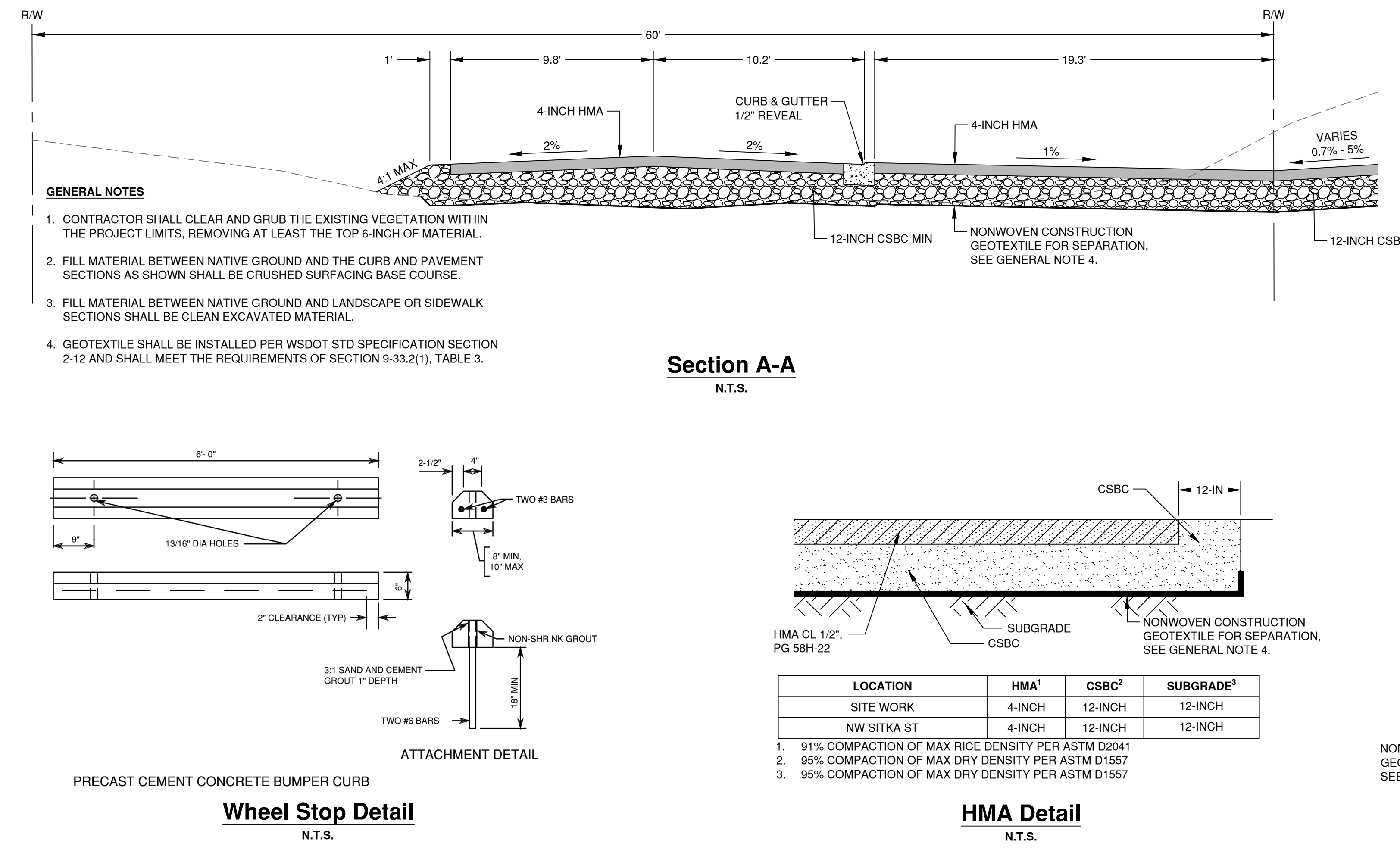
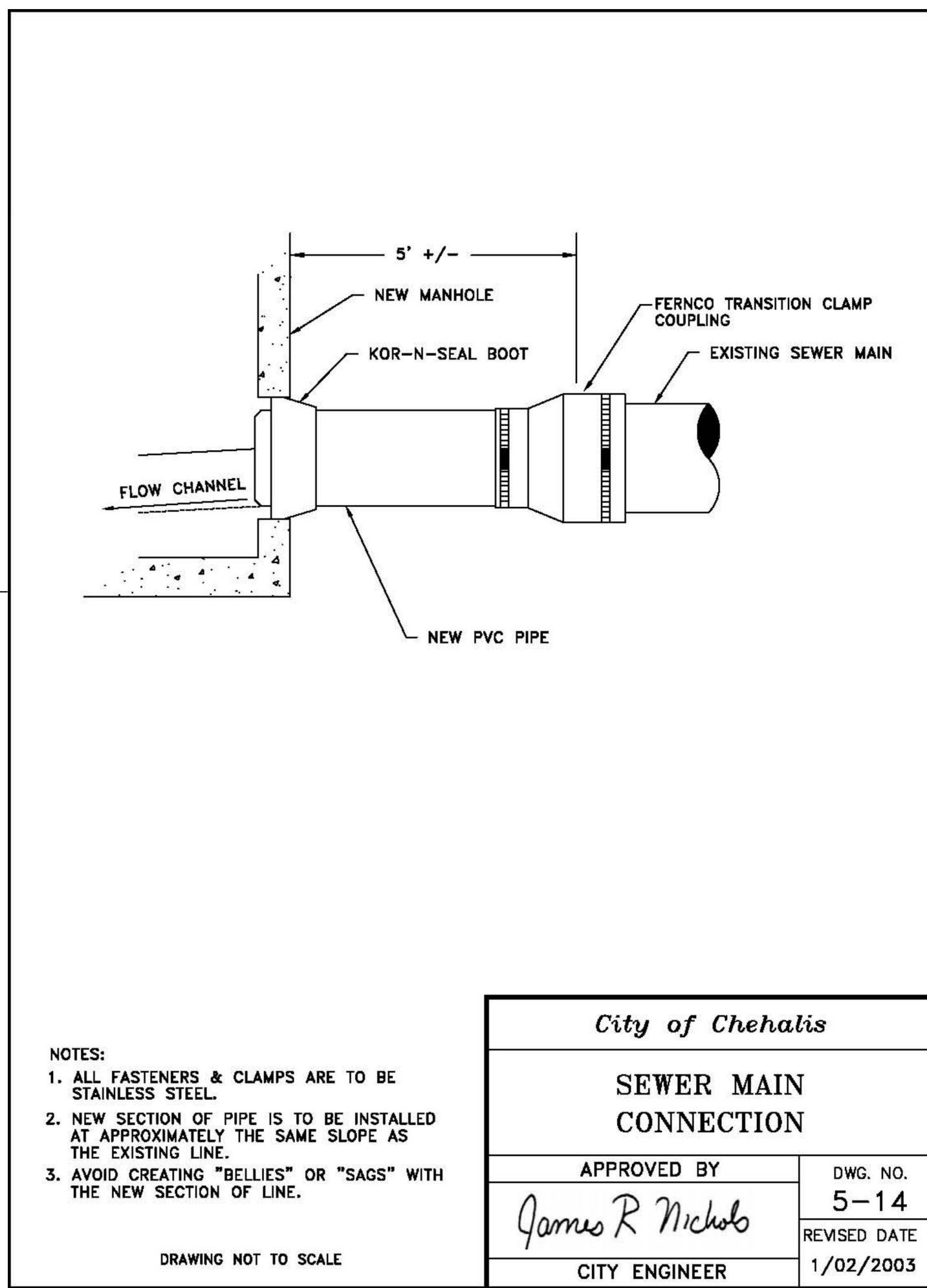
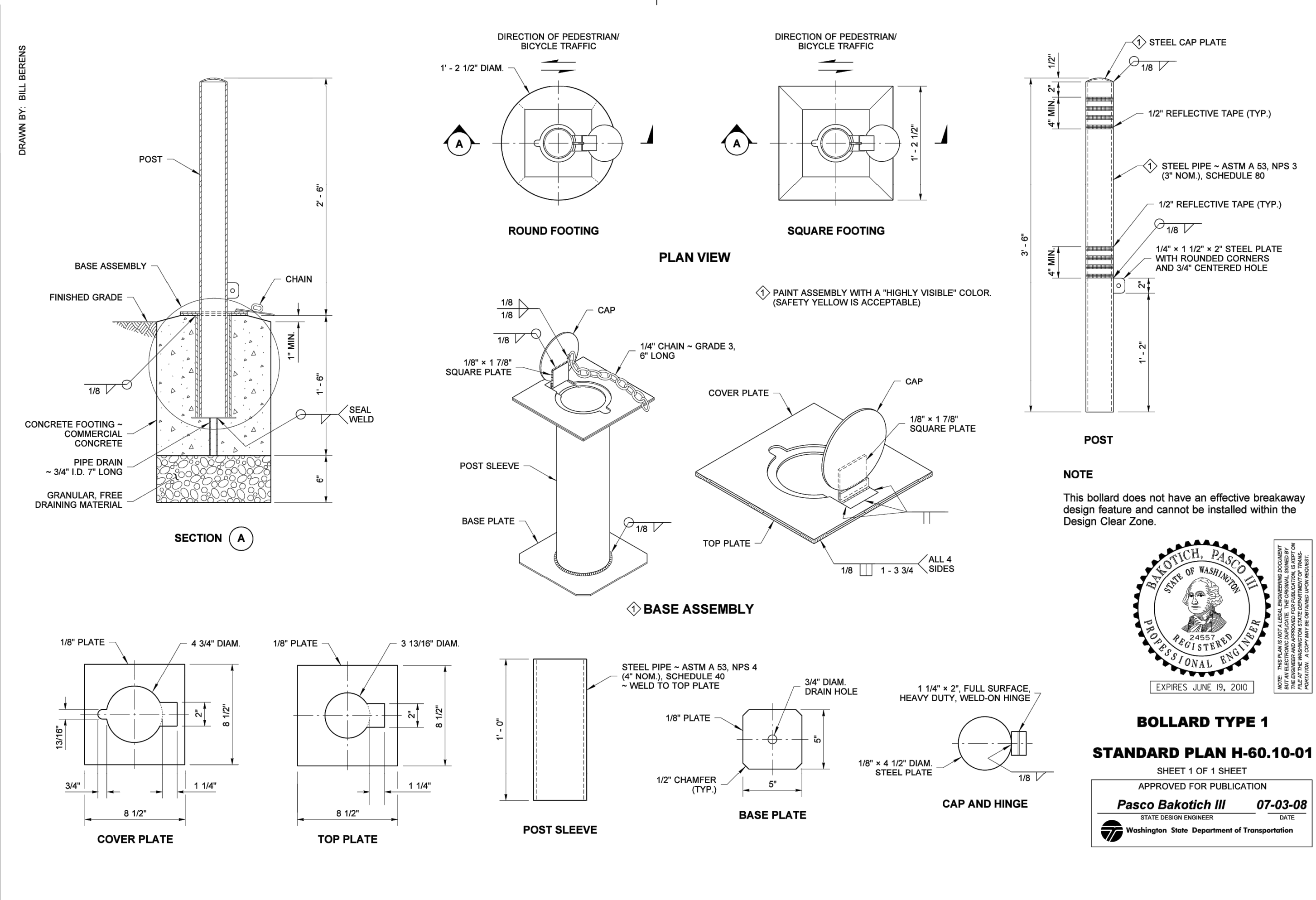
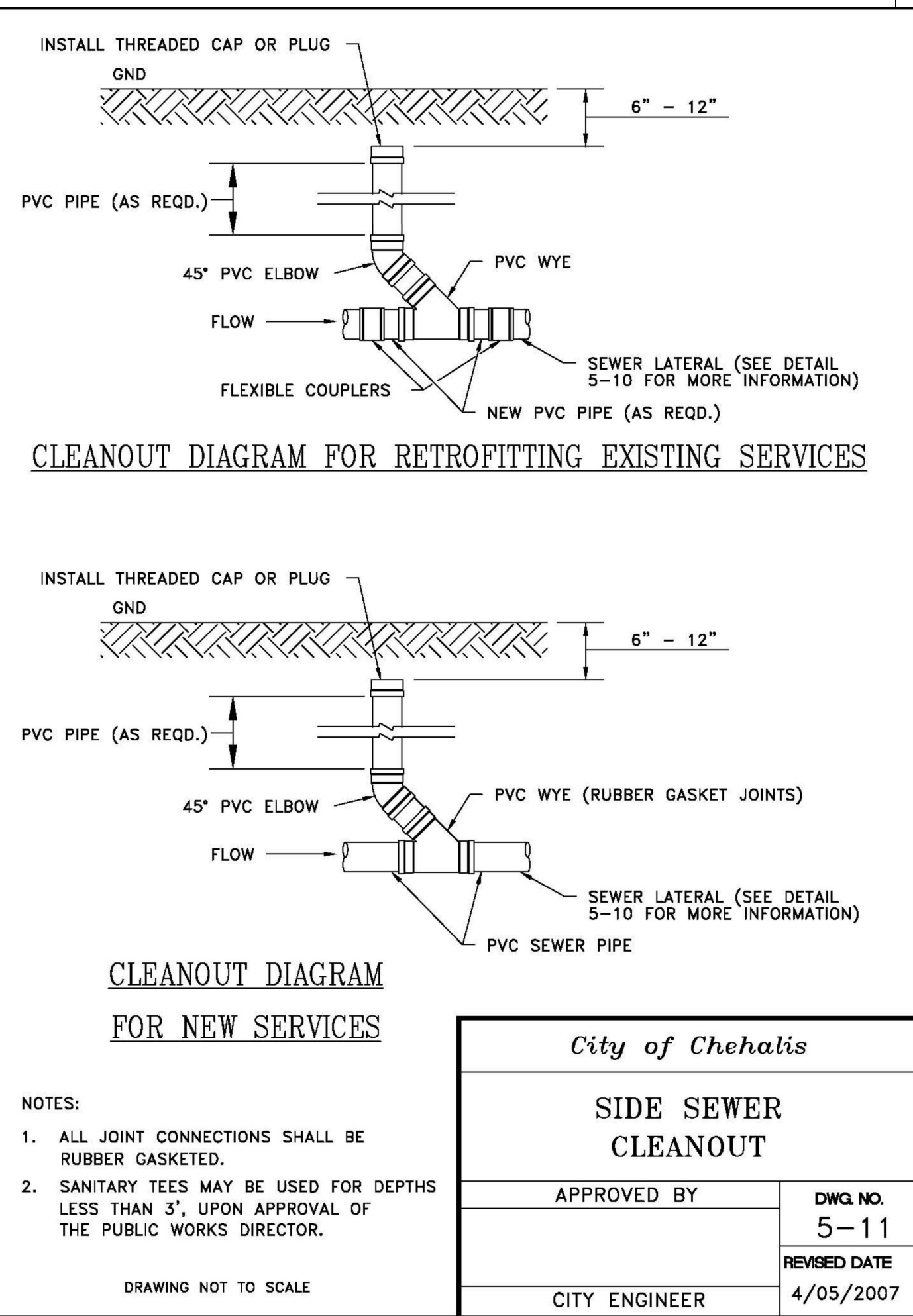
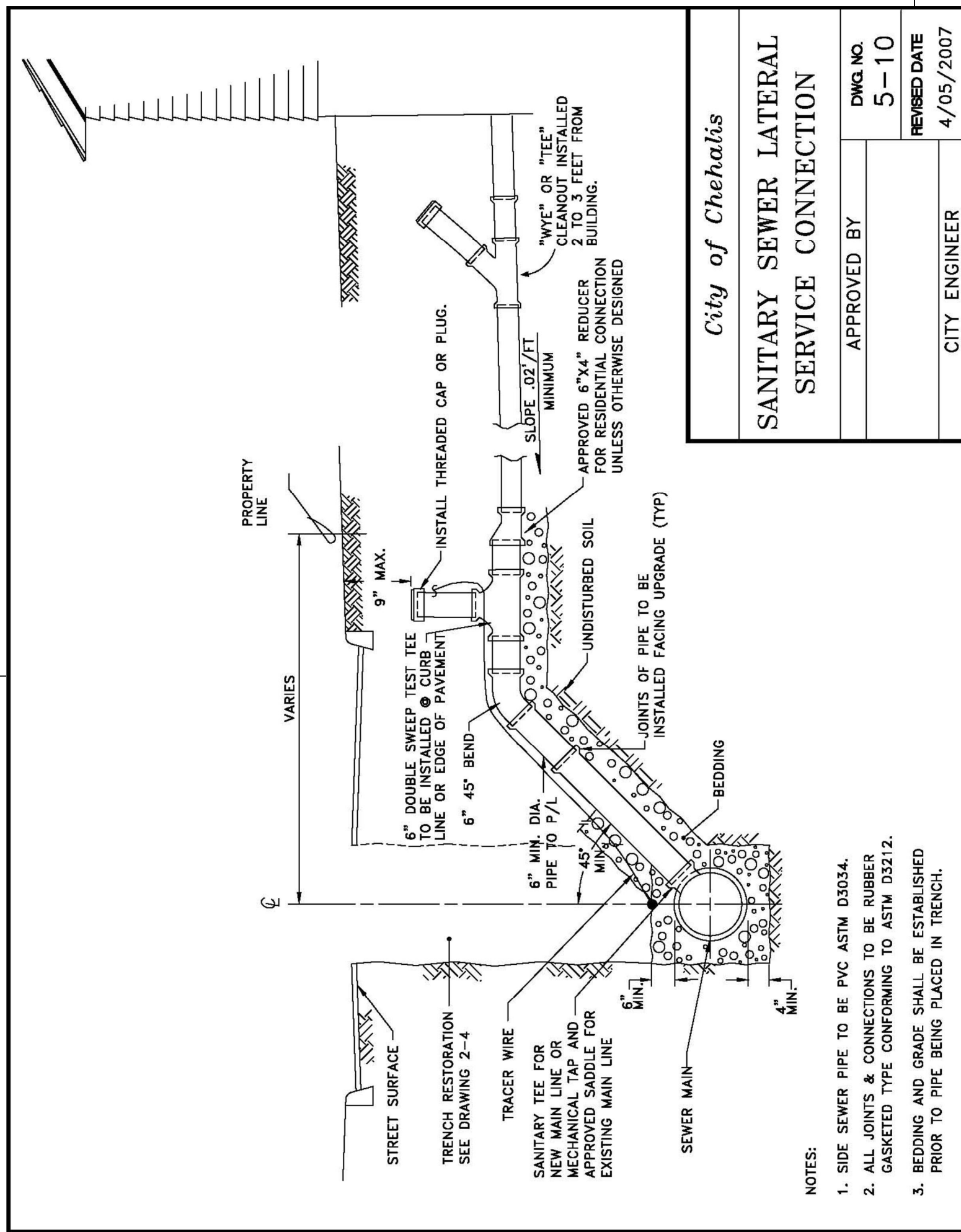
**City of Chehalis**

**MANHOLE COLLAR**

APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-3
CITY ENGINEER	REVISED DATE
	1/02/2003

Drawing Not to Scale

REVISION SCHEDULE	



**ADA Parking Sign Detail**  
 N.T.S.

**RICEfergusMILLER**  
 ARCHITECTURE INTERIORS PLANNING VIZLAB  
 275 FIFTH STREET, SUITE 100  
 BREMERTON, WA 98337  
 360-377-8773  
 RFMARCH.COM

**GIBBS & OLSON**  
 www.gibbs-olson.com



**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
 CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE

NO.	DATE	DESCRIPTION

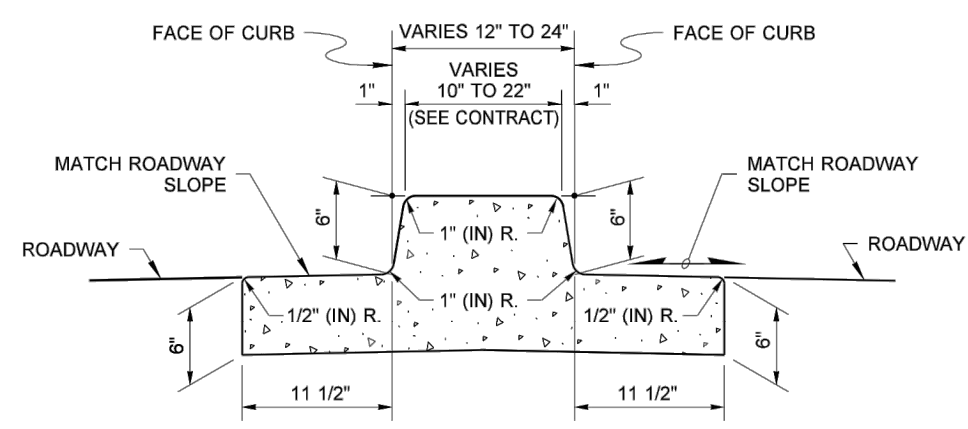
SITE & UTILITY DETAILS

SHEET #

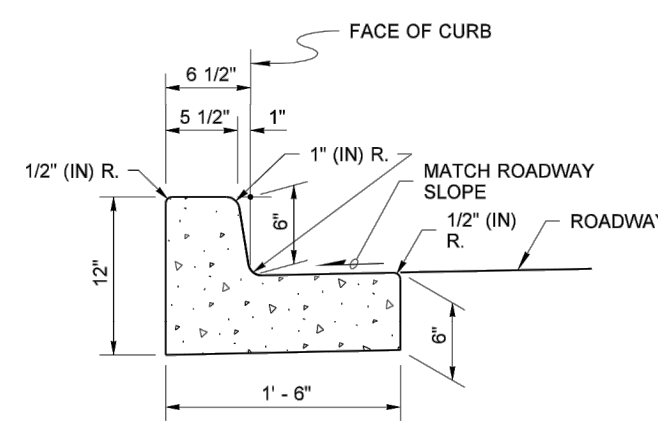
**C21.02**

DATE/TIME PRINTED: 4/15/2021 1:16:19 PM  
 T:\Projects\155 Chehalis\1082A Temporary Fire Station\Contract Drawings\01551082A Site & Utility Plan.dwg

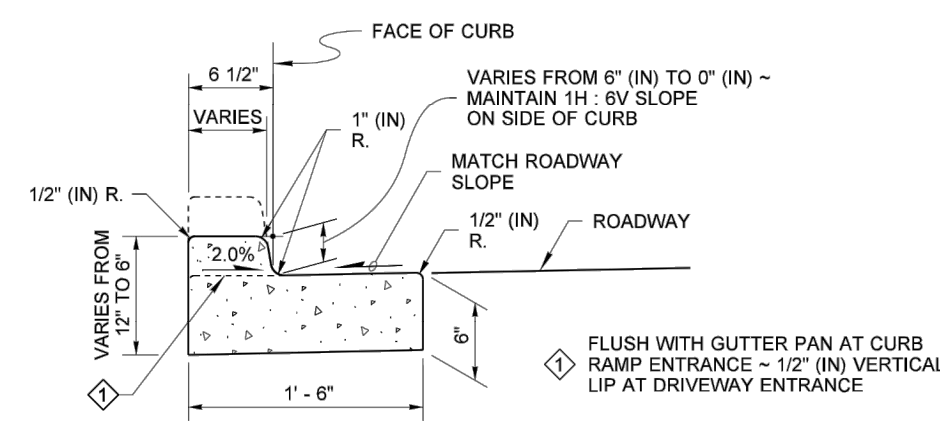




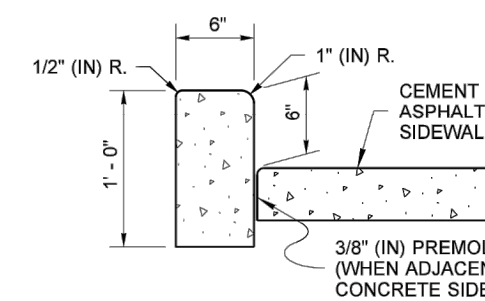
DUAL-FACED CEMENT CONCRETE TRAFFIC CURB AND GUTTER



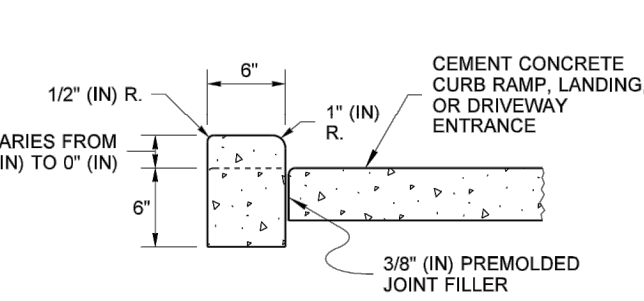
CEMENT CONCRETE TRAFFIC CURB AND GUTTER



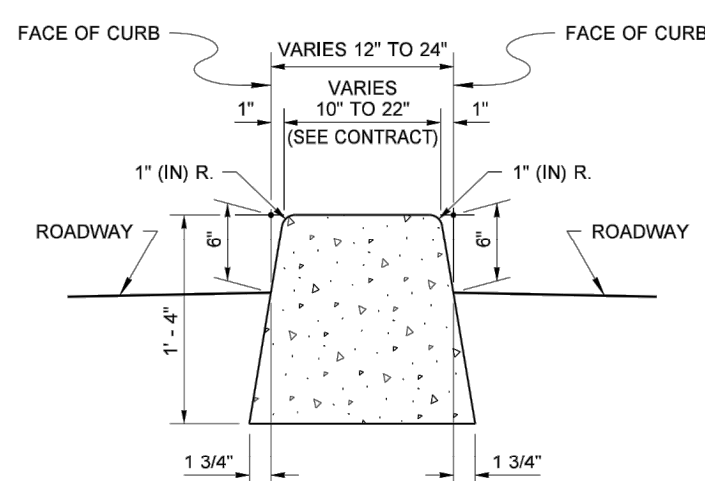
DEPRESSED CURB AND GUTTER SECTION AT CURB RAMPS AND DRIVEWAY ENTRANCES



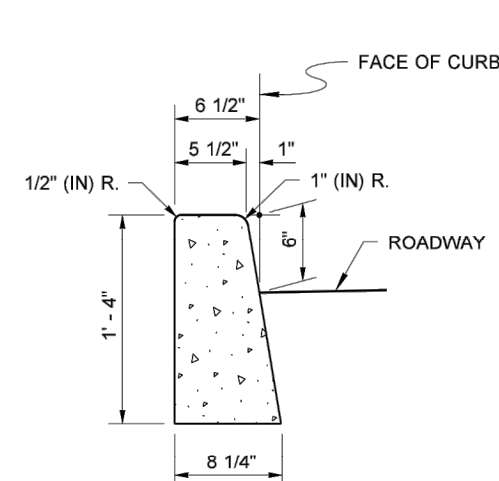
CEMENT CONCRETE PEDESTRIAN CURB



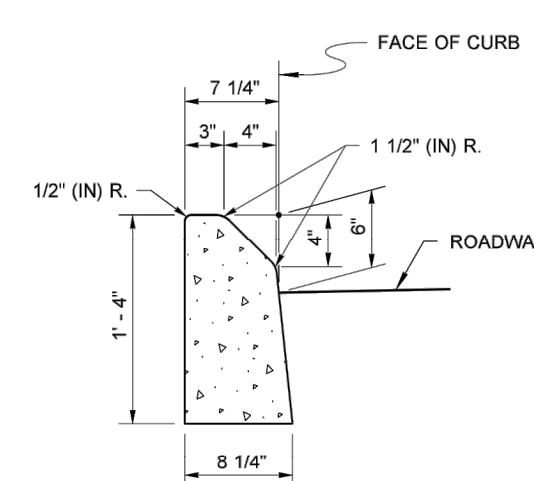
CEMENT CONCRETE PEDESTRIAN CURB AT CURBS, LANDINGS, AND DRIVEWAY ENTRANCES



DUAL-FACED CEMENT CONCRETE TRAFFIC CURB



CEMENT CONCRETE TRAFFIC CURB



MOUNTABLE CEMENT CONCRETE TRAFFIC CURB

NOTE

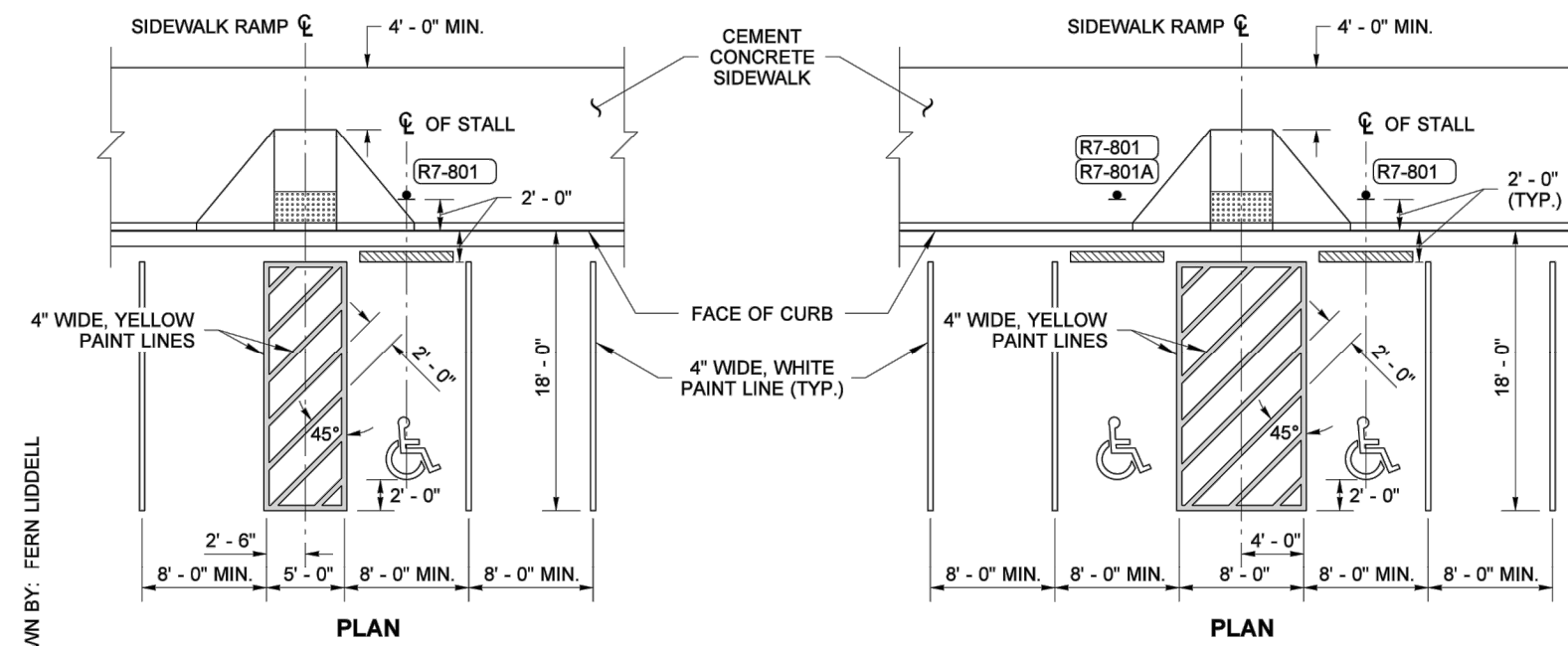
- See Standard Plan F-30.10 for Curb Expansion and Connection Joint spacing. See Standard Specification, Sections 8-04 and 9-04 for additional requirements.



Michael S Fleming  
Digitally signed by Michael S Fleming  
Date: 2020.09.24 07:39:38 -0700  
Cement Concrete Curbs

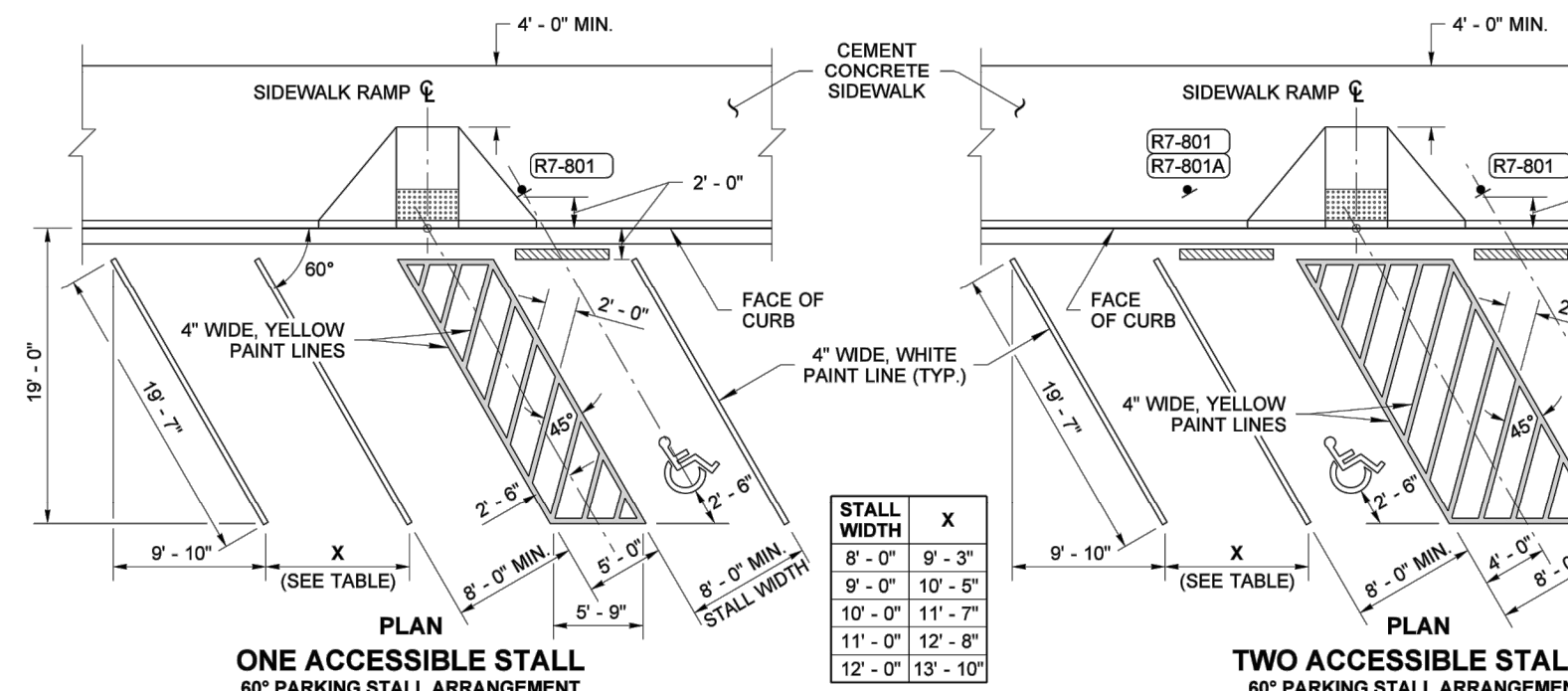
STANDARD PLAN F-10.12-04

APPROVED FOR PUBLICATION  
Date: 2020.09.24  
07:57:43 -0700  
Washington State Department of Transportation



ONE ACCESSIBLE STALL 90° PARKING STALL ARRANGEMENT

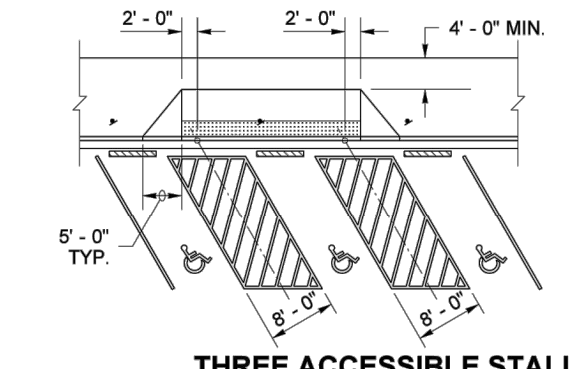
TWO ACCESSIBLE STALLS 90° PARKING STALL ARRANGEMENT



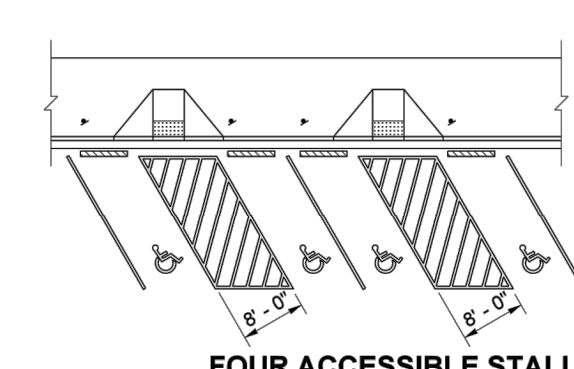
ONE ACCESSIBLE STALL 60° PARKING STALL ARRANGEMENT

TWO ACCESSIBLE STALLS 60° PARKING STALL ARRANGEMENT

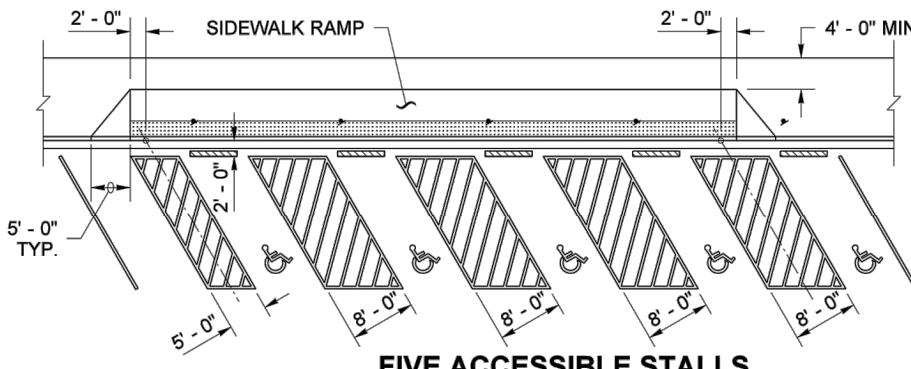
STALL WIDTH	X
8'-0"	8'-3"
9'-0"	10'-5"
10'-0"	11'-7"
11'-0"	12'-8"
12'-0"	13'-10"



THREE ACCESSIBLE STALLS



FOUR ACCESSIBLE STALLS



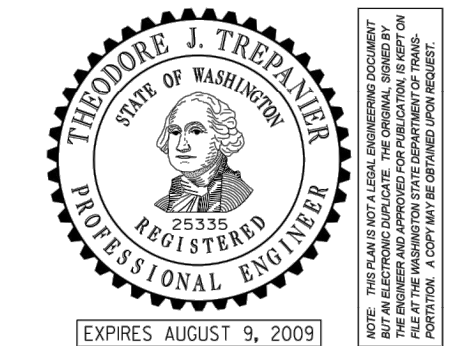
FIVE ACCESSIBLE STALLS

NOTES

- Three, four and five accessible stall arrangements may be either 60° (angled) or 90° (perpendicular) parking arrangements. See Contract.
- An Access Parking Space Symbol is required for each accessible parking stall. A blue background and white border are required when the symbol is installed on a cement concrete surface.
- All accessible stalls shall have wheel stops. Place wheel stops in other stalls when specified in the contract. Wheel stops shall be approximately 6" high and a minimum of 6' long.
- Refer to the Standard Plans for sidewalk ramp, detectable warning pattern, and curb details.

LEGEND

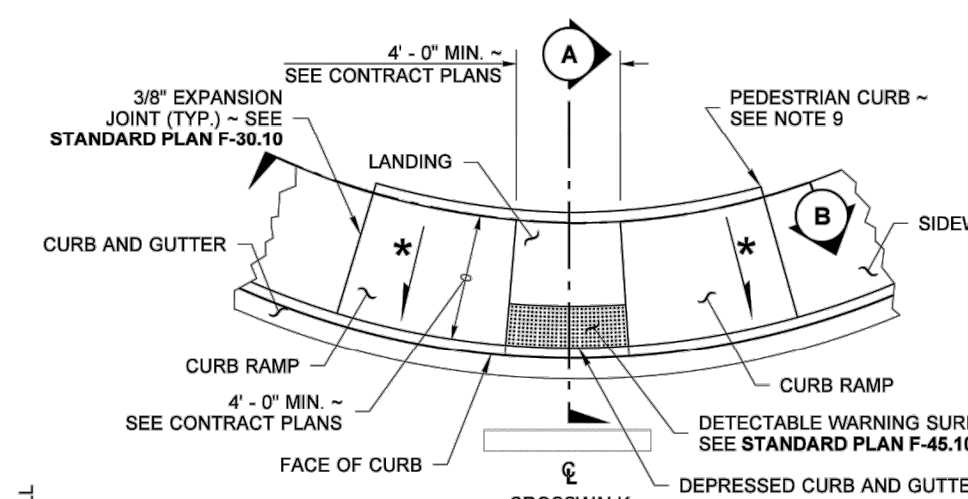
- Reserved Parking Sign and post with (R7-801A) Plaque, if indicated (See Sign Fabrication Manual)
- Access Parking Space Symbol
- Manufactured wheel stop
- Detectable Warning Pattern



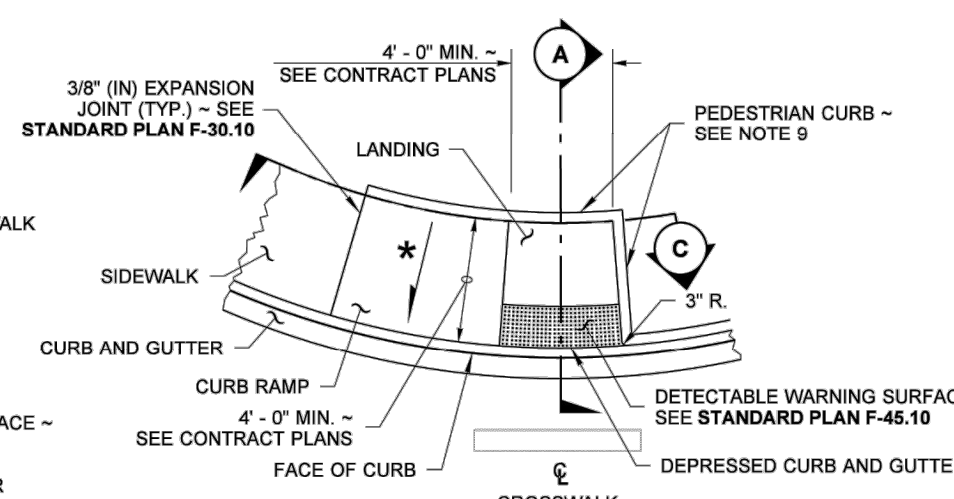
PARKING SPACE LAYOUTS

STANDARD PLAN M-17.10-02

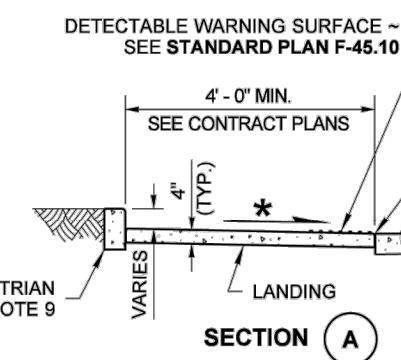
APPROVED FOR PUBLICATION  
Pasco Bakotich III  
DATE: 07-03-08  
Washington State Department of Transportation



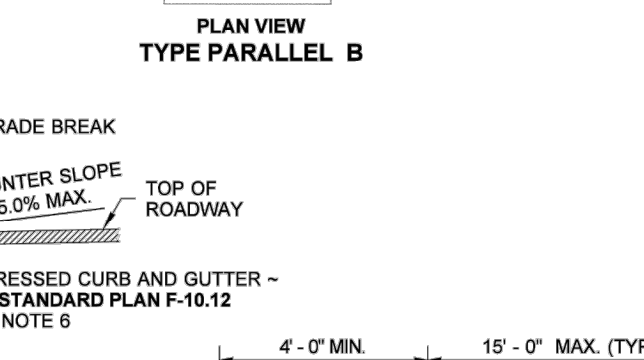
TYPE PARALLEL A



TYPE PARALLEL B



SECTION A



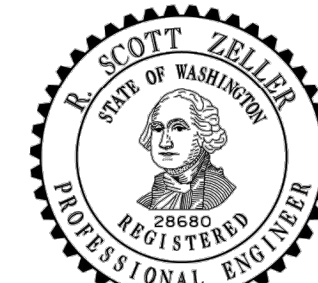
SECTION B

NOTES

- At marked crosswalks, the connection between the landing and the roadway must be contained within the width of the crosswalk markings.
- Where "GRADE BREAK" is called out, the entire length of the grade break between the two adjacent surface planes shall be flush.
- Do not place Gratings, Junction Boxes, Access Covers, or other appliances on any part of the Curb Ramp or Landing, or in the Depressed Curb and Gutter where the Landing connects to the roadway.
- See Contract Plans for the curb design specified. See Standard Plan F-10.12 for Curb, Curb and Gutter, Depressed Curb and Gutter, and Pedestrian Curb details.
- See Standard Plan F-30.10 for Cement Concrete Sidewalk Details. See Contract Plans for width and placement of sidewalk.
- The Bid Item "Cement Concrete Curb Ramp Type \_\_\_" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalks.
- The Curb Ramp length is not required to exceed 15 feet (unless otherwise shown in the Contract Plans). When applying the 15-foot max. length, the turning slope of the curb ramp is allowed to exceed 8.3%. Use a single constant slope from bottom of ramp to top of ramp to match into the sidewalk over a horizontal distance of 15 feet. Do not include abutting landing(s) in the 15-foot max. measurement. When a ramp is constructed on a radius, the 15-foot max. length is measured on the inside radius along the back of the walkway.
- Curb Ramps and Landings shall receive a broom finish. See Standard Specifications 8-14.
- Pedestrian Curb may be omitted if the ground surface at the back of the Curb Ramp and/or Landing will be at the same elevation as the Curb Ramp or Landing and there will be no material to retain.

LEGEND

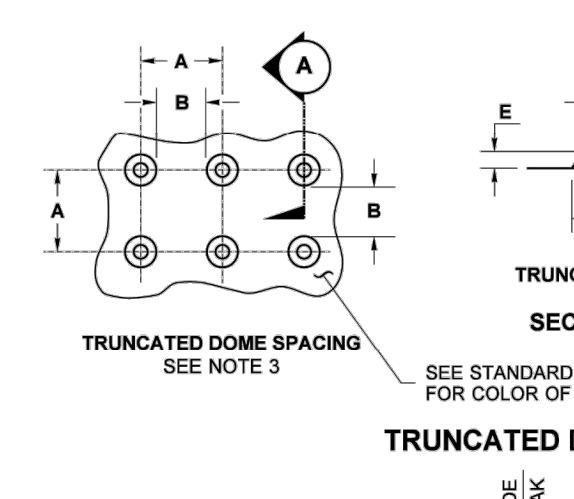
- \* SLOPE IN EITHER DIRECTION 1.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (2% MAX.)
- \*\* 7.5% OR FLATTER RECOMMENDED FOR DESIGN/FORMWORK (8.3% MAX.) - SEE NOTE 7



R. Scott Zeller  
Digitally signed by R. Scott Zeller  
Date: 2016.07.19 15:19:00  
Parallel Curb Ramp

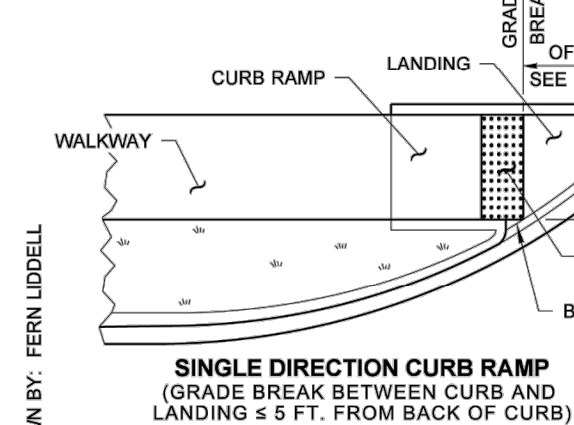
STANDARD PLAN F-40.12-03

APPROVED FOR PUBLICATION  
Date: 2016.07.19 15:19:00  
Washington State Department of Transportation

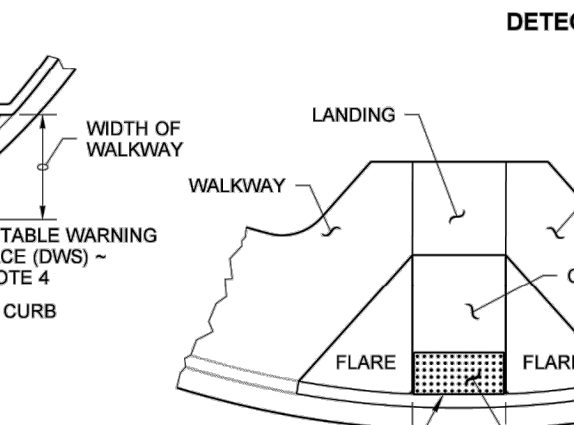


TRUNCATED DOME DETAILS

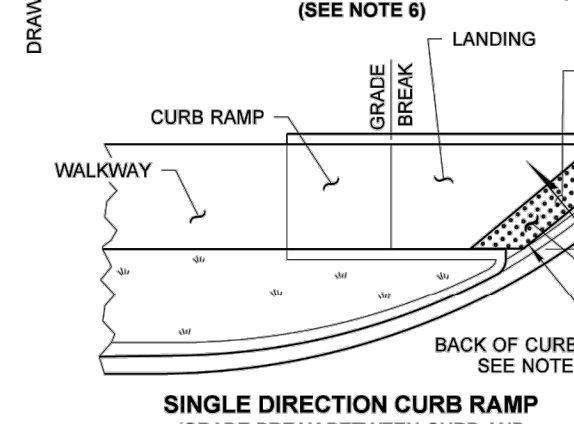
MIN.	MAX.
A 1.00"	2.40"
B 0.65"	---
C 0.45"	0.90"
D 0.9"	1.40"
E 0.2"	0.2"



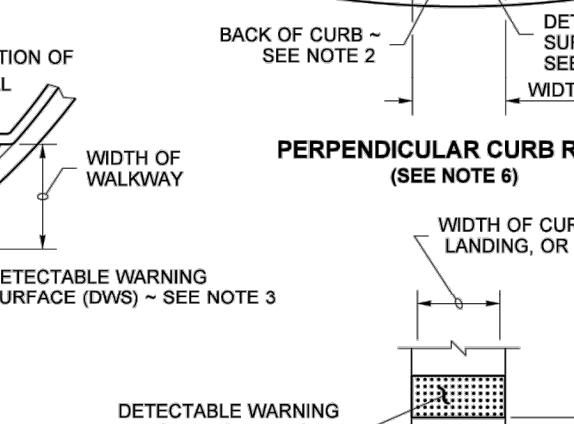
SINGLE DIRECTION CURB RAMP



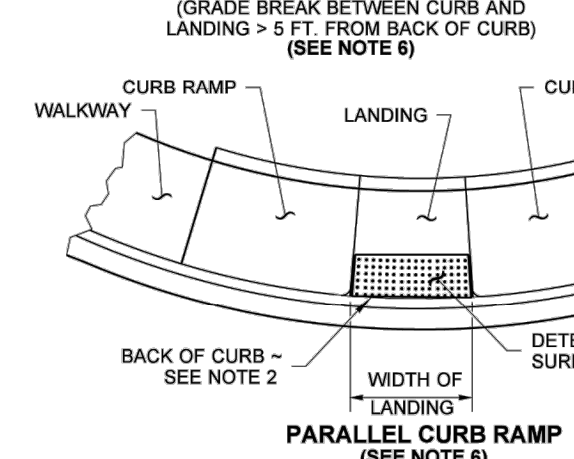
PERPENDICULAR CURB RAMP



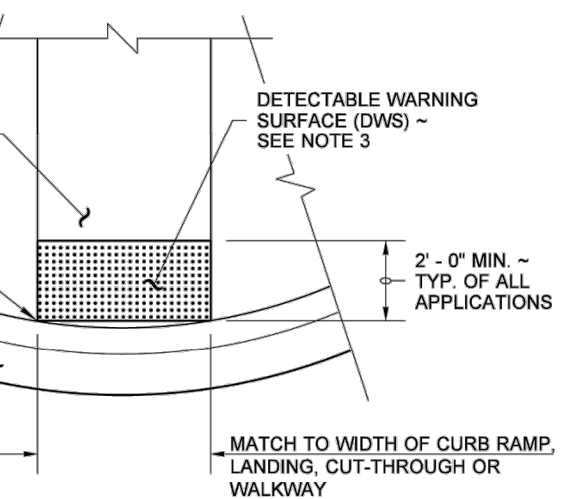
SINGLE DIRECTION CURB RAMP



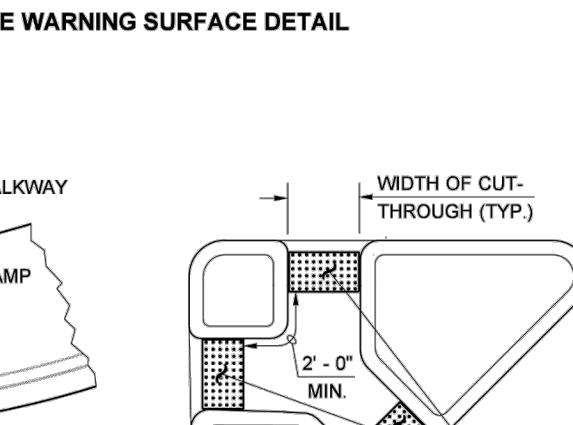
PARALLEL CURB RAMP



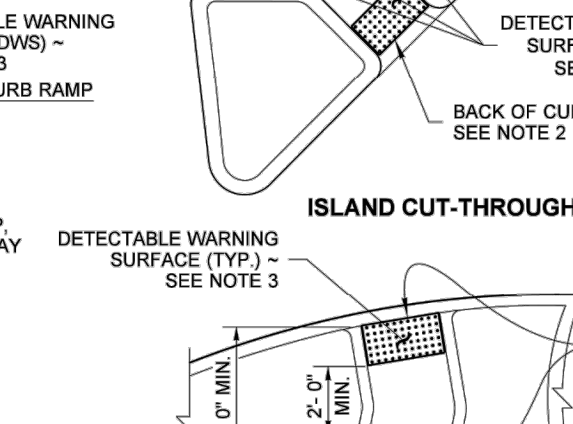
PEDESTRIAN RAILROAD CROSSING



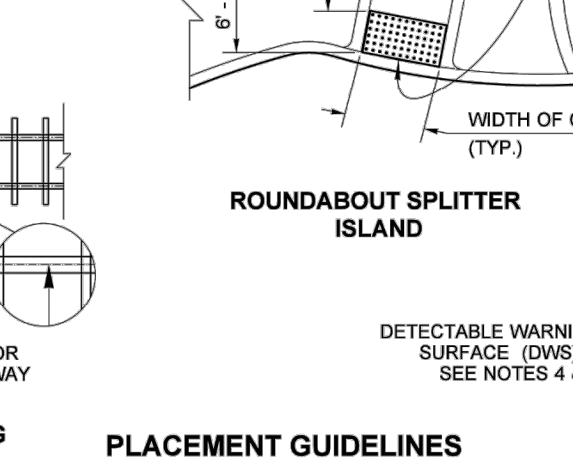
DETECTABLE WARNING SURFACE DETAIL



ISLAND CUT-THROUGH



MEDIAN CUT-THROUGH



ROUNDABOUT SPLITTER ISLAND

NOTES

- The Detectable Warning Surface (DWS) shall extend the full width of the curb ramp, landing, or other roadway entrance as applicable. Exception: If the manufacturer of the DWS requires a concrete border around the DWS, a variance of up to 2 inches on each side of the DWS is permitted.
- The Detectable Warning Surface (DWS) shall be placed at the back of curb, with the two leading corners of the DWS panel placed adjacent to the back of the curb, and with no more than a 2 inch gap between the DWS and the back of the curb measured at the center of the DWS panel. Exception: If the Manufacturer of the selected DWS requires a concrete border around the DWS, a variance of up to 2 inches from the back of the curb is permitted (measured at the leading corners of the DWS panel).
- The rows of truncated domes shall be aligned to be perpendicular to the grade break at the back of curb.
- The rows of truncated domes shall be aligned to be parallel to the direction of travel.
- If curb and gutter are not present, such as a shared-use path connection, the Detectable Warning Surface shall be placed at the pavement edge.
- See Standard Plans for sidewalk and curb ramp details.
- If a curb ramp is required, the location of the Detectable Warning Surface must be at the bottom of the ramp and within the required distance from the rail.
- When the grade break between the curb ramp and the landing is less than or equal to 5 ft. from the back of curb at all points, place the Detectable Warning Surface on the bottom of the curb ramp directly above the grade break.

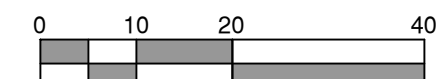


R. Scott Zeller  
Digitally signed by R. Scott Zeller  
Date: 2016.07.19 15:19:00  
Detectable Warning Surface

STANDARD PLAN F-45.10-02

APPROVED FOR PUBLICATION  
Date: 2016.07.19 15:19:00  
Washington State Department of Transportation

NO.	DATE	DESCRIPTION



Scale: (in Feet)

**LEGEND:**

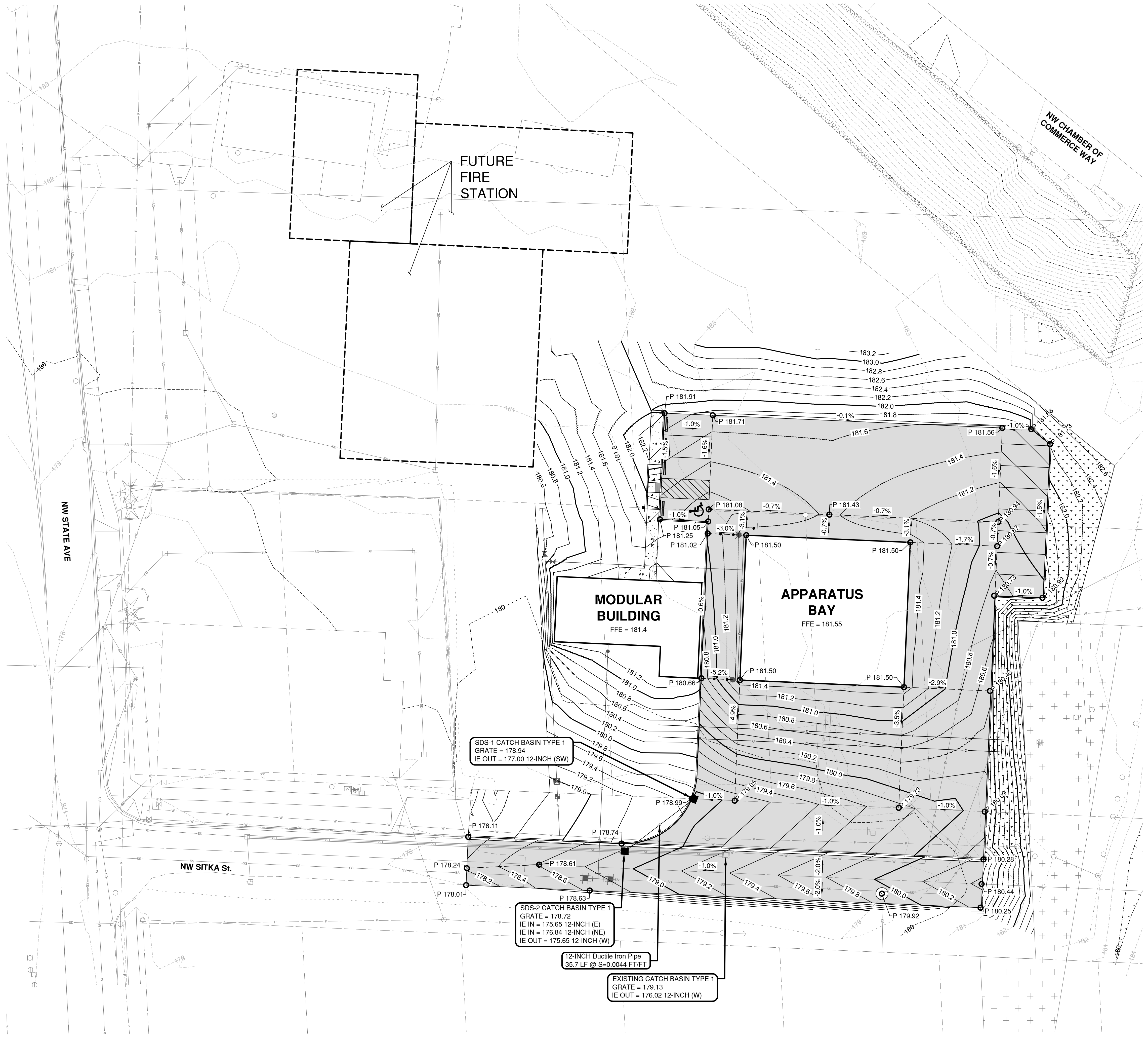
- PROPOSED GRADE BREAKLINE
- (33.40) EXISTING ELEVATION
- P.33.40 PAVEMENT ELEVATION
- 24.0— PROPOSED CONTOUR

**GENERAL STORM DRAIN NOTES:**

1. CONNECT EXISTING PIPE TO SDS-2 PER CITY OF CHEHALIS STD DWG 5-14.
2. SDS-1 (TYPE 1 CATCH BASIN) SHALL BE INSTALLED PER WSDOT STD PLAN B-5-20-02, B-30-10-03, AND B-30-40-03 (RECTANGULAR BI-DIRECTIONAL VANED GRATE).
3. SDS-2 (TYPE 1 CATCH BASIN) SHALL BE INSTALLED PER WSDOT STD PLAN B-5-20-02, B-30-10-03, AND B-30-30-03 (RECTANGULAR VANED GRATE).
4. SDS-2 AND THE EXISTING CATCH BASIN ON NW SITKA ST WITHIN THE PAVING LIMITS SHALL BE SET 0.1' LOWER THAN THE PROPOSED PAVING ELEVATION AT THE CENTER OF THE CATCH BASIN. THE CURB AND GUTTER SHALL SLOPE TOWARDS THE ROAD AT THESE CATCH BASINS TO ENSURE DRAINAGE.

**GENERAL GRADING NOTES:**

1. STOCKPILE EXCESS EXCAVATION MATERIAL ON EAST SIDE OF SITE.
2. CONTRACTOR SHALL LIMIT STOCKPILES TO 10 CY +/- AND SHALL LABEL EACH STOCKPILE WITH A DESCRIPTION OF WHERE THE MATERIAL WAS EXCAVATED FROM.
3. KEEP CONTAMINATED MATERIAL SEPARATE FROM CLEAN MATERIAL.
4. CONTAMINATED MATERIAL IS ANTICIPATED TO BE LIMITED TO THE TOP 12-INCHES OF EXISTING ON SITE MATERIAL.
5. CLEAN EXCAVATED MATERIAL MAY BE USED ON SITE IN ALL AREAS REQUIRING FILL THAT ARE NOT IDENTIFIED FOR CONSTRUCTION OF ASPHALT, AGGREGATE OR PROPOSED BUILDINGS.



SDS-1 CATCH BASIN TYPE 1  
 GRATE = 178.94  
 IE OUT = 177.00 12-INCH (SW)

SDS-2 CATCH BASIN TYPE 1  
 GRATE = 178.72  
 IE IN = 175.65 12-INCH (E)  
 IE IN = 176.84 12-INCH (NE)  
 IE OUT = 175.65 12-INCH (W)

12-INCH Ductile Iron Pipe  
 35.7 LF @ S=0.0044 FT/FT

EXISTING CATCH BASIN TYPE 1  
 GRATE = 179.13  
 IE OUT = 176.02 12-INCH (W)

**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
 CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

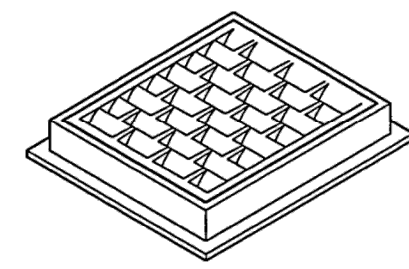
ISSUE DATE 4/15/2021

REVISION SCHEDULE	

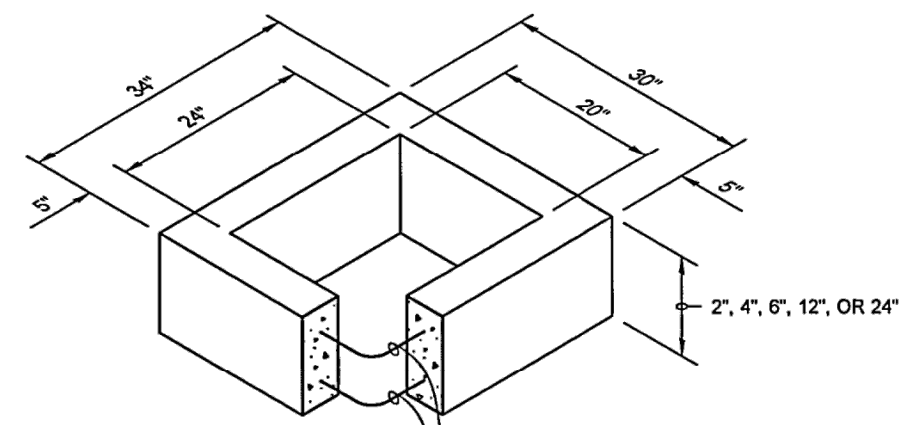
STORM DRAIN & GRADING PLAN

SHEET #  
**C30.01**

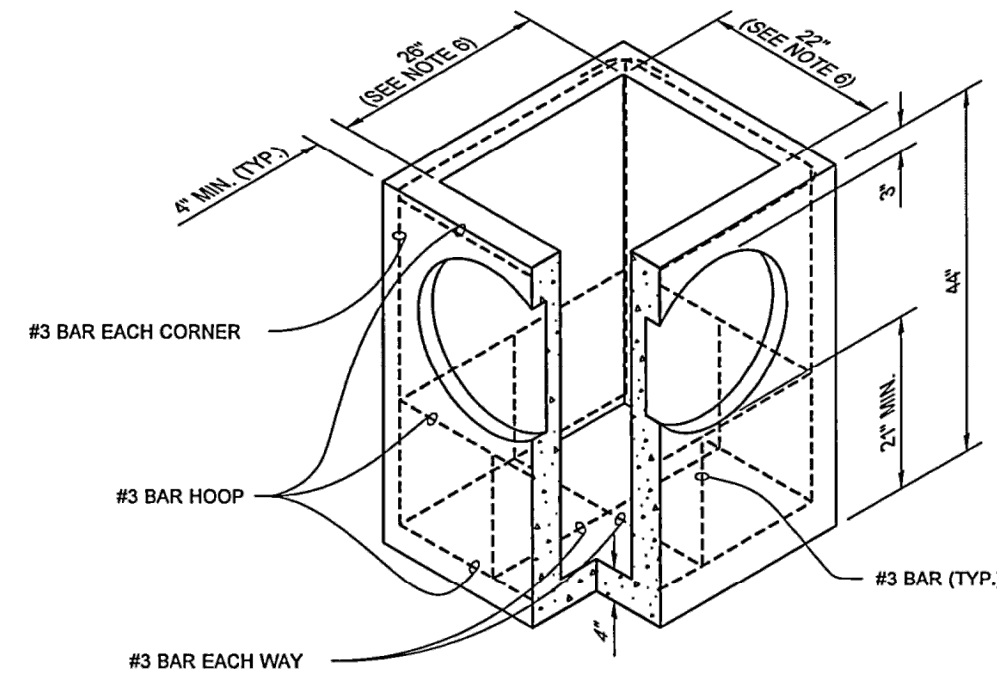
DRAWN BY: LISA CYFORD



FRAME AND VANED GRATE



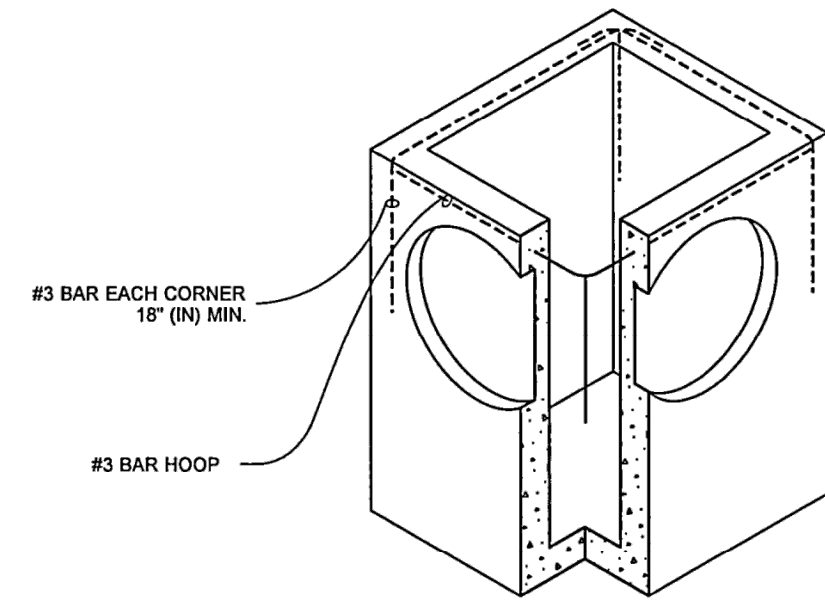
RECTANGULAR ADJUSTMENT SECTION



PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER (INCHES)
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSP # (STD. SPEC. SECT. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-05.12(2))	15"

\* CORRUGATED POLYETHYLENE STORM SEWER PIPE



ALTERNATIVE PRECAST BASE SECTION

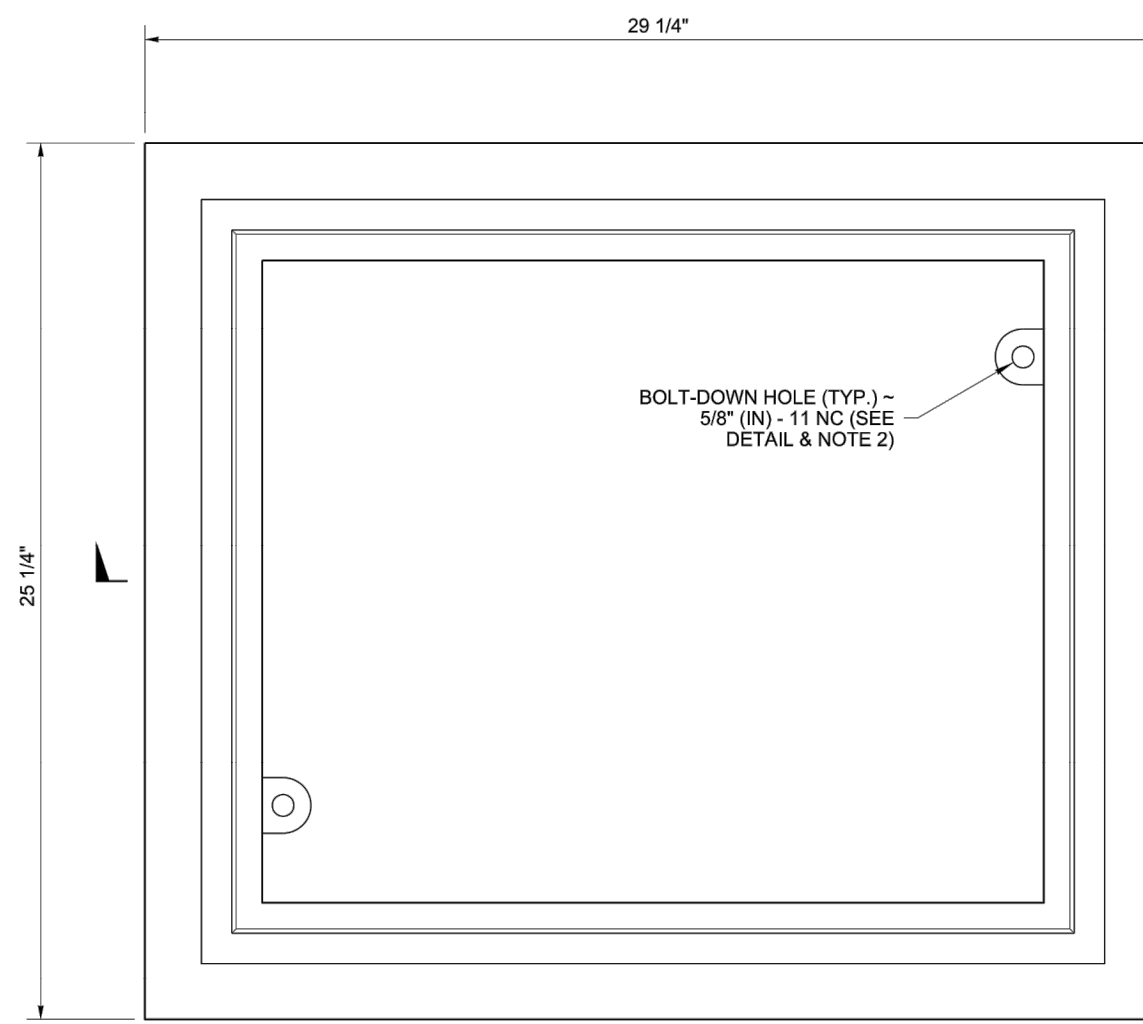
NOTES

- As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
- The knockout diameter shall not be greater than 20" (in). Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.
- The maximum depth from the finished grade to the lowest pipe invert shall be 5' (ft).
- The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
- The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1 : 24 or steeper.
- The opening shall be measured at the top of the Precast Base Section.
- All pickup holes shall be grouted full after the basin has been placed.

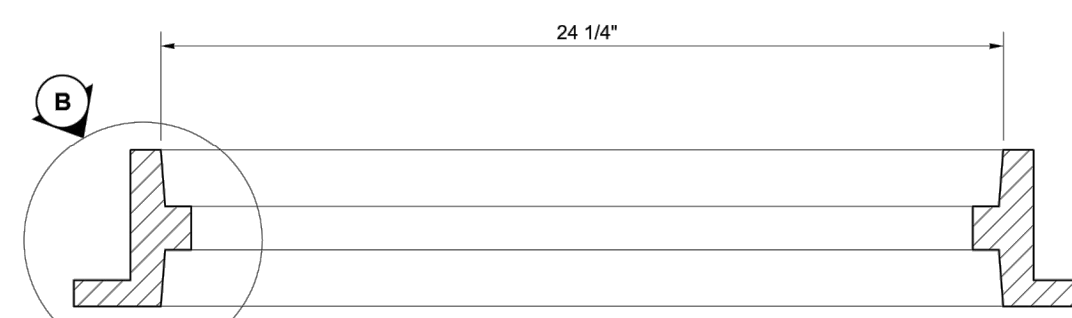


Julie Heilman  
Heilman, Julie  
Jan 25 2017 2:53 PM  
CATCH BASIN TYPE 1  
STANDARD PLAN B-5.20-02  
SHEET 1 OF 1 SHEET  
APPROVED FOR PUBLICATION  
June 28 2017 6:48 AM  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

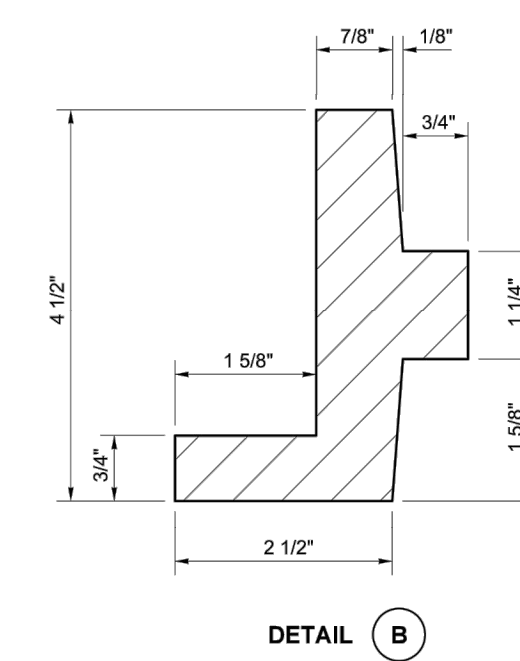
DRAWN BY: FERN LIDDELL



TOP



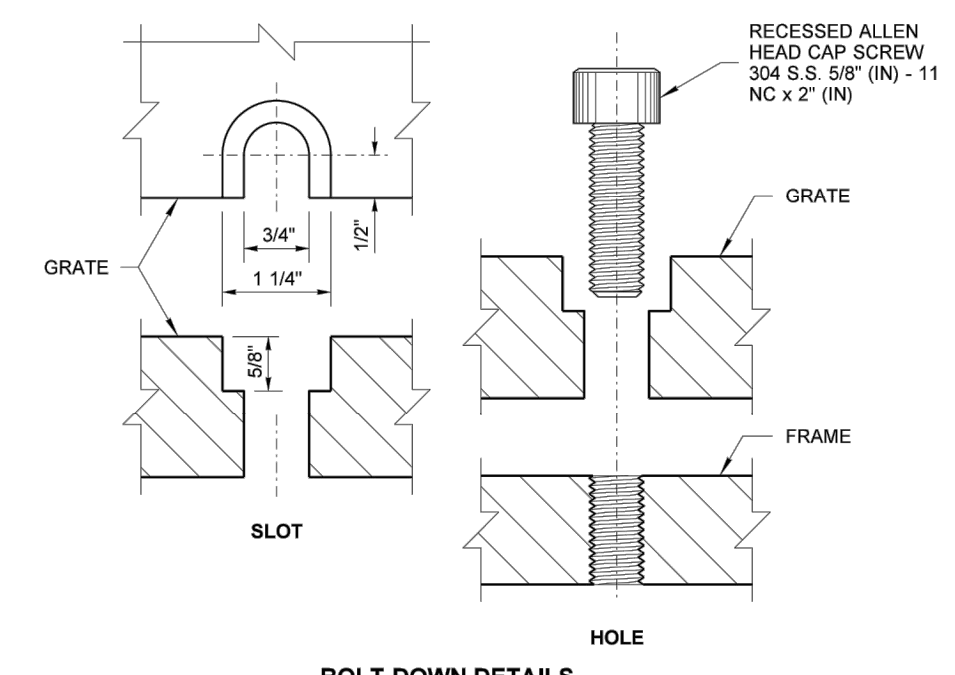
SECTION A



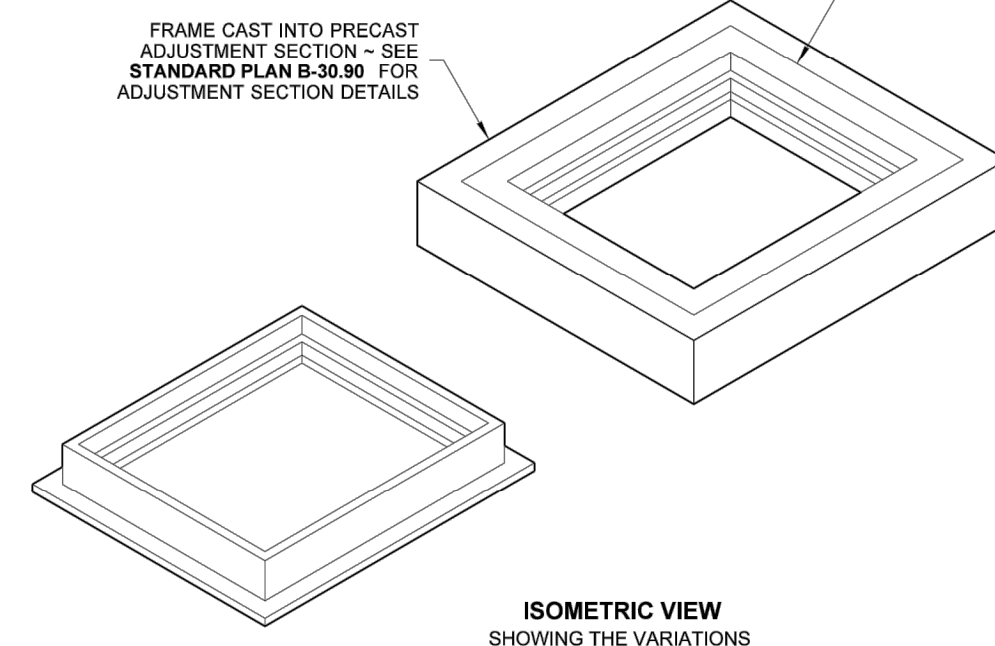
DETAIL B

NOTES

- This frame is designed to accommodate 20" (in) x 24" (in) grates or covers as shown on Standard Plans B-30.20, B-30.30, B-30.40, and B-30.50.
- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
- Refer to Standard Specification Section 9-05.15 and 9-05.15(2) for additional requirements.



BOLT-DOWN DETAILS  
SEE NOTE 2



ISOMETRIC VIEW  
SHOWING THE VARIATIONS



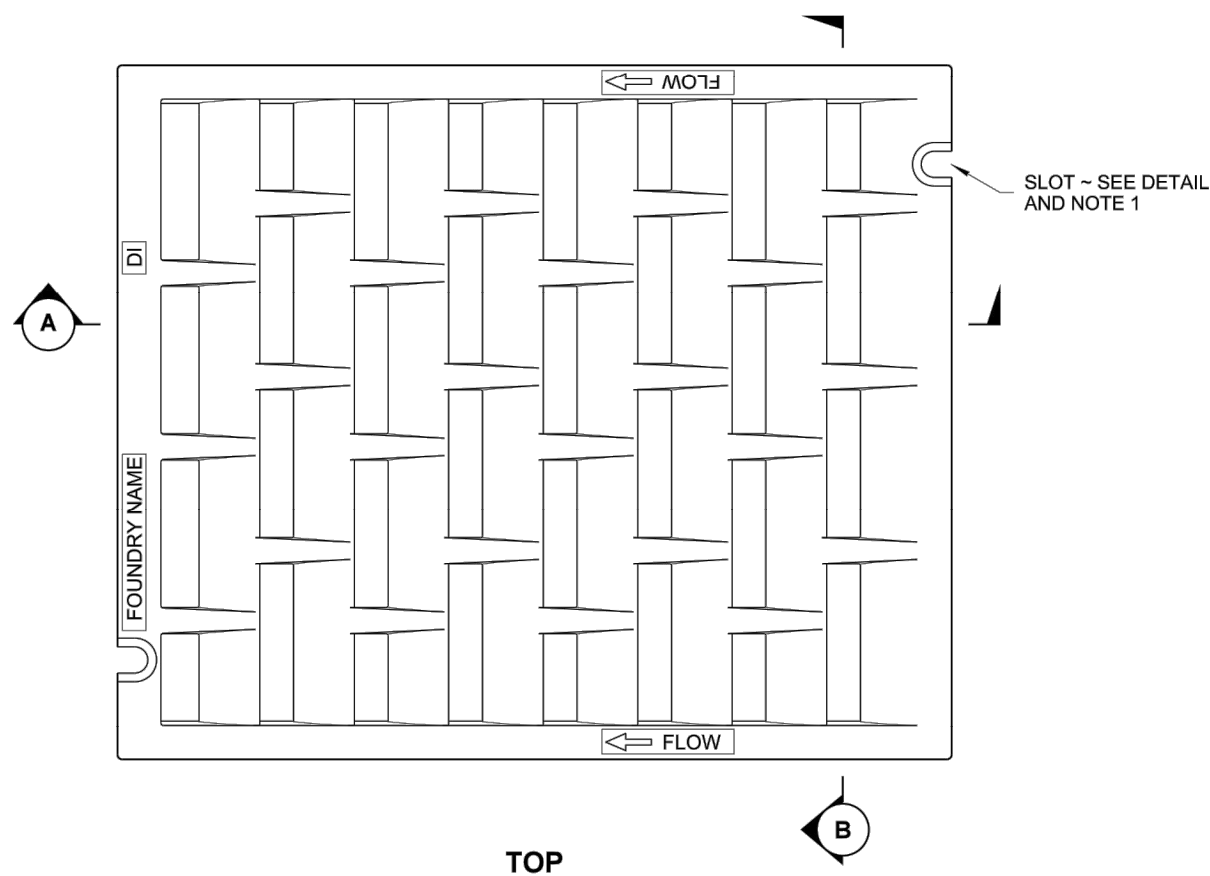
Julie Heilman  
Heilman, Julie  
Feb 20 2018 12:52 PM  
RECTANGULAR FRAME  
(REVERSIBLE)  
STANDARD PLAN B-30.10-03  
SHEET 1 OF 1 SHEET  
APPROVED FOR PUBLICATION  
June 27 2018 10:01 AM  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

**RICEfergusMILLER**  
ARCHITECTURE INTERIORS PLANNING VIZLAB  
275 FIFTH STREET, SUITE 100  
BREMERTON, WA 98337  
360-377-8773  
RFMARCH.COM

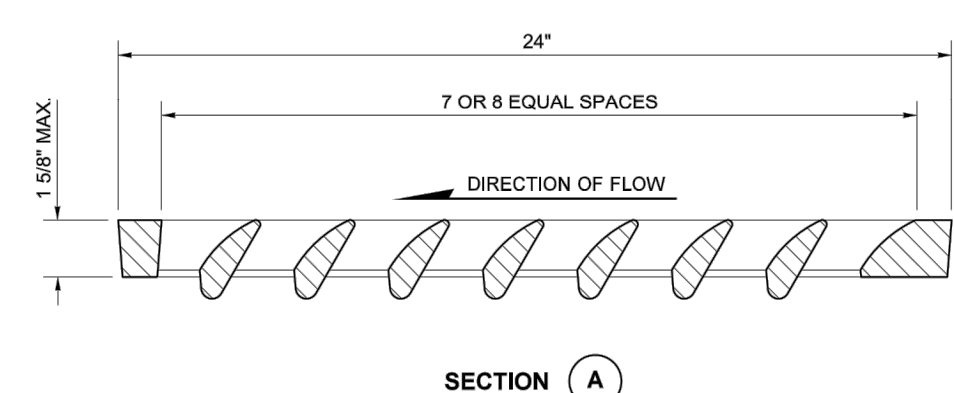


**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
CHEHALIS, WASHINGTON

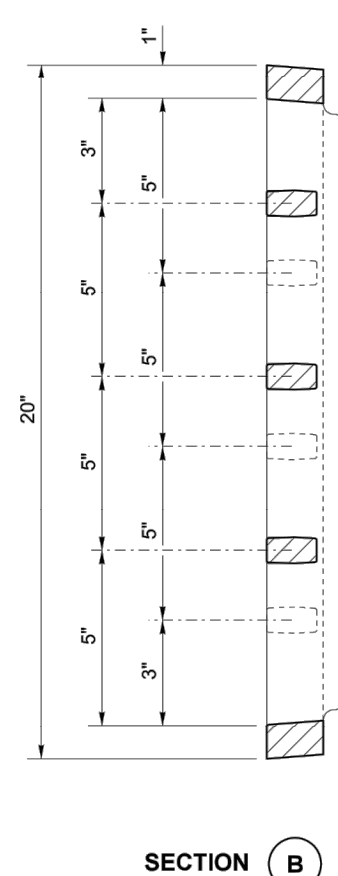
DRAWN BY: FERN LIDDELL



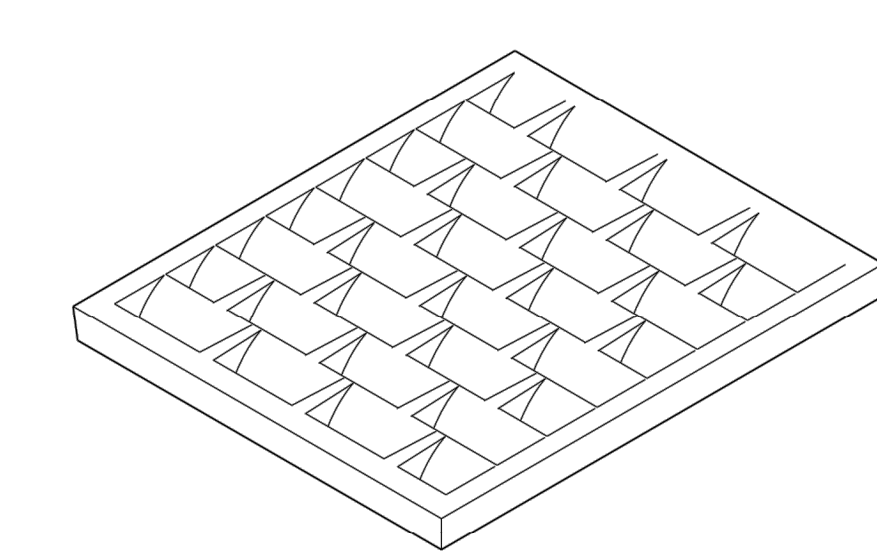
TOP



SECTION A



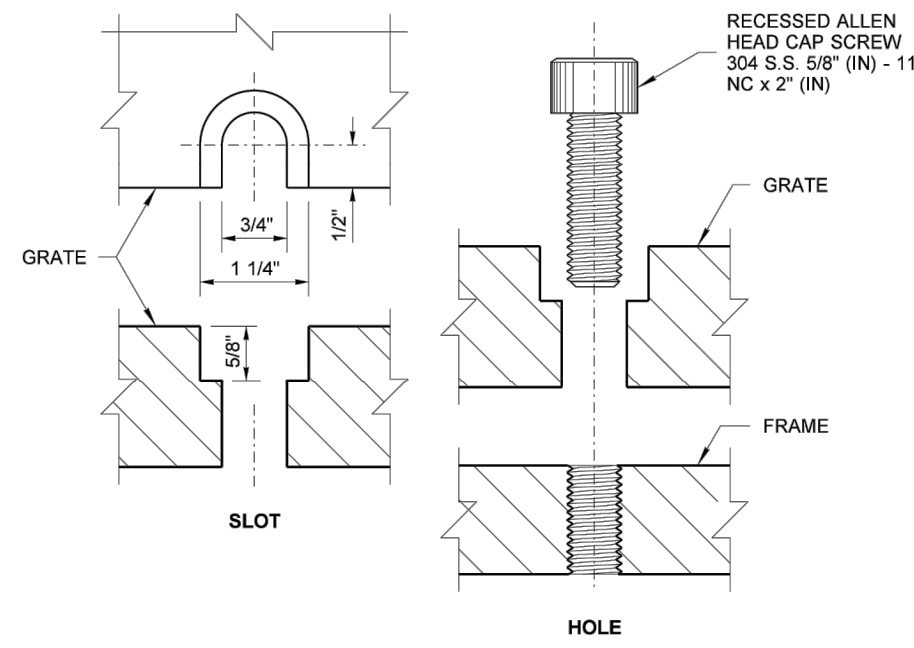
SECTION B



ISOMETRIC

NOTES

- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
- Refer to Standard Specification Section 9-05.15 and 9-05.15(2) for additional requirements.
- For frame details, see Standard Plan B-30.10.

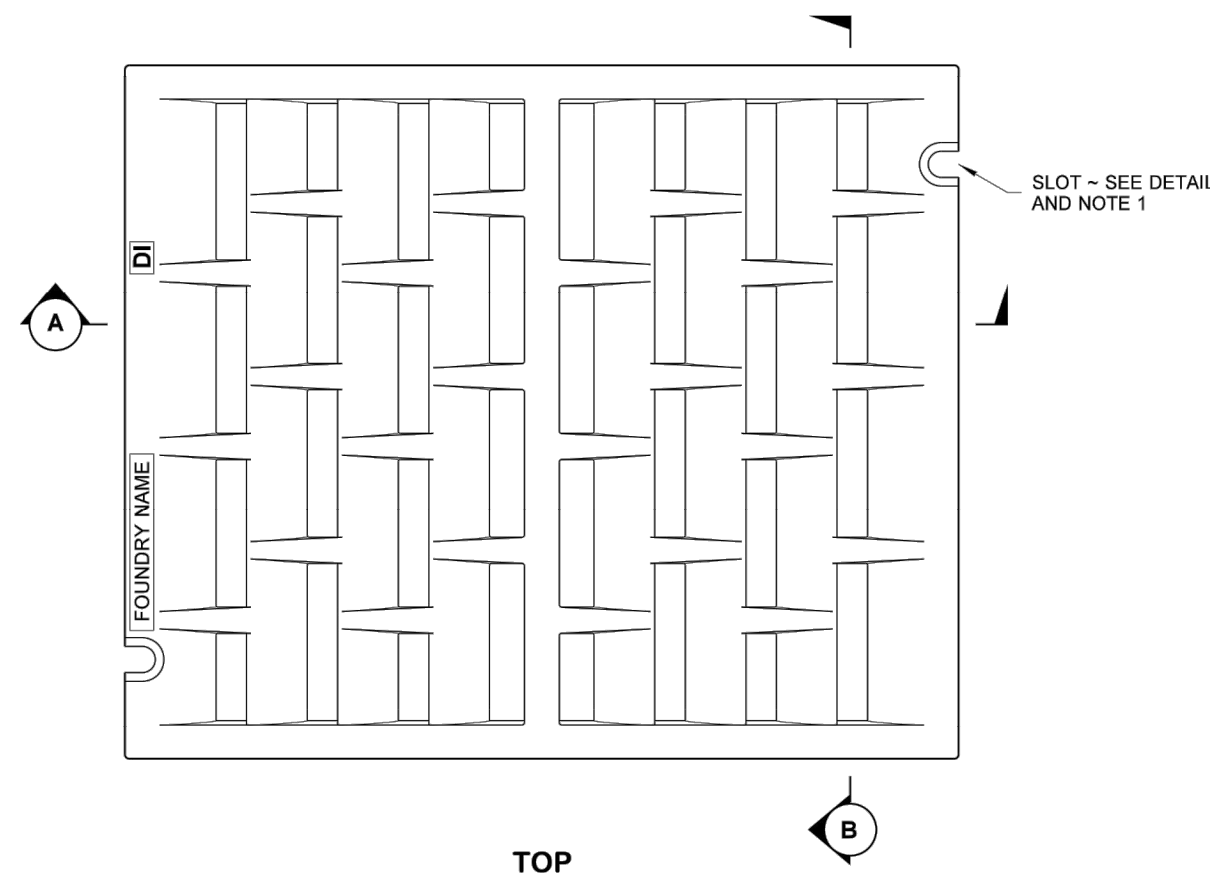


BOLT-DOWN DETAILS  
SEE NOTE 1

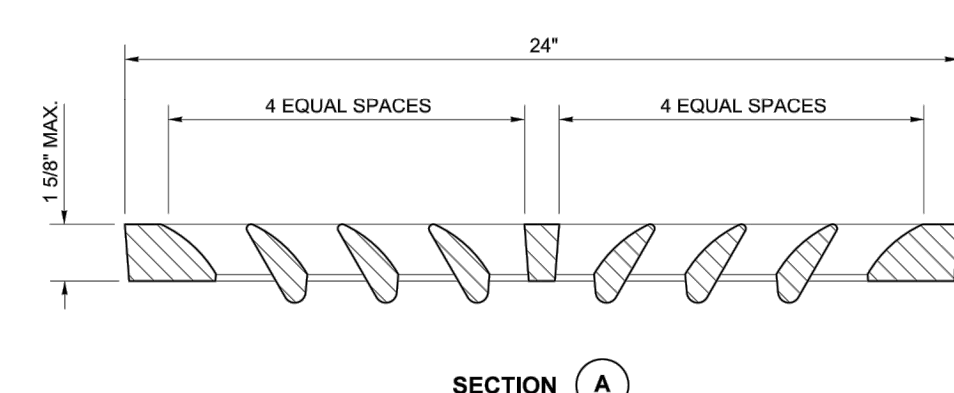


Julie Heilman  
Heilman, Julie  
Feb 20 2018 12:54 PM  
RECTANGULAR  
BI-DIRECTIONAL  
VANED GRATE  
STANDARD PLAN B-30.30-03  
SHEET 1 OF 1 SHEET  
APPROVED FOR PUBLICATION  
June 27 2018 7:38 AM  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

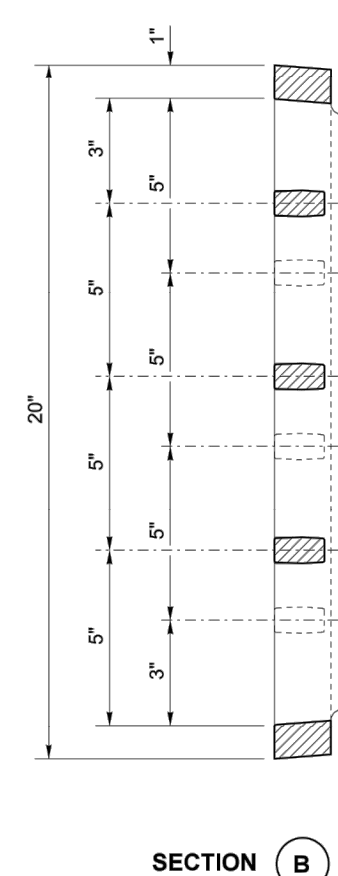
DRAWN BY: FERN LIDDELL



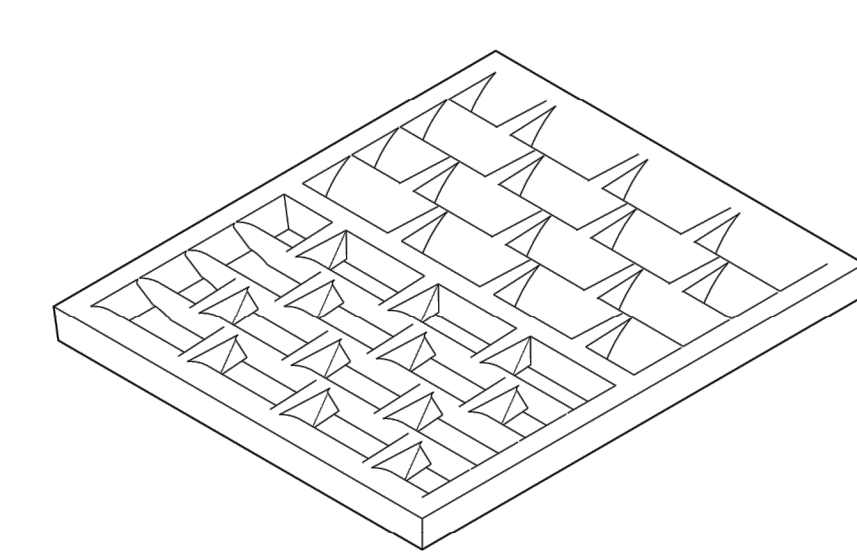
TOP



SECTION A



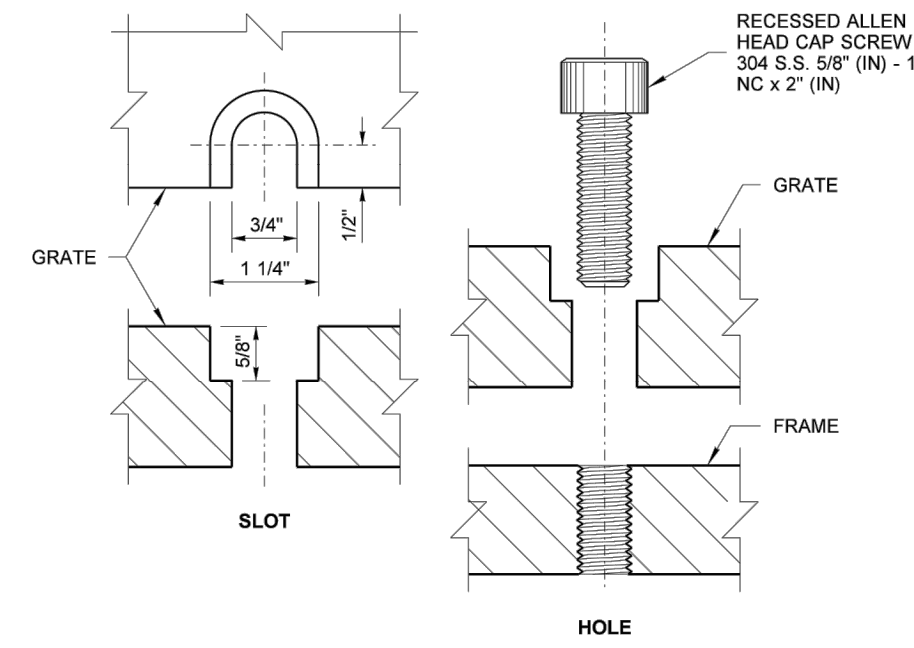
SECTION B



ISOMETRIC

NOTES

- Bolt-down capability is required on all frames, grates, and covers, unless specified otherwise in the Contract. Provide 2 holes in the frame that are vertically aligned with the grate or cover slots. The frame shall accept the 304 Stainless Steel (S.S.) 5/8" (in) - 11 NC x 2" (in) allen head cap screw by being tapped, or other approved mechanism. Location of bolt-down holes varies by manufacturer.
- Refer to Standard Specification Section 9-05.15, and 9-05.15(2) for additional requirements.
- For frame details, see Standard Plan B-30.10.



BOLT-DOWN DETAILS  
SEE NOTE 1



Julie Heilman  
Heilman, Julie  
Feb 20 2018 12:54 PM  
RECTANGULAR  
BI-DIRECTIONAL  
VANED GRATE  
STANDARD PLAN B-30.40-03  
SHEET 1 OF 1 SHEET  
APPROVED FOR PUBLICATION  
June 27 2018 7:38 AM  
STATE DESIGN ENGINEER  
Washington State Department of Transportation

DATE/TIME PRINTED: 4/15/2021 1:16:49 PM

T:\Projects\155 Chehalis\1082A Temporary Fire Station\Contract Drawings\1551082A Grading Plan.dwg

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE

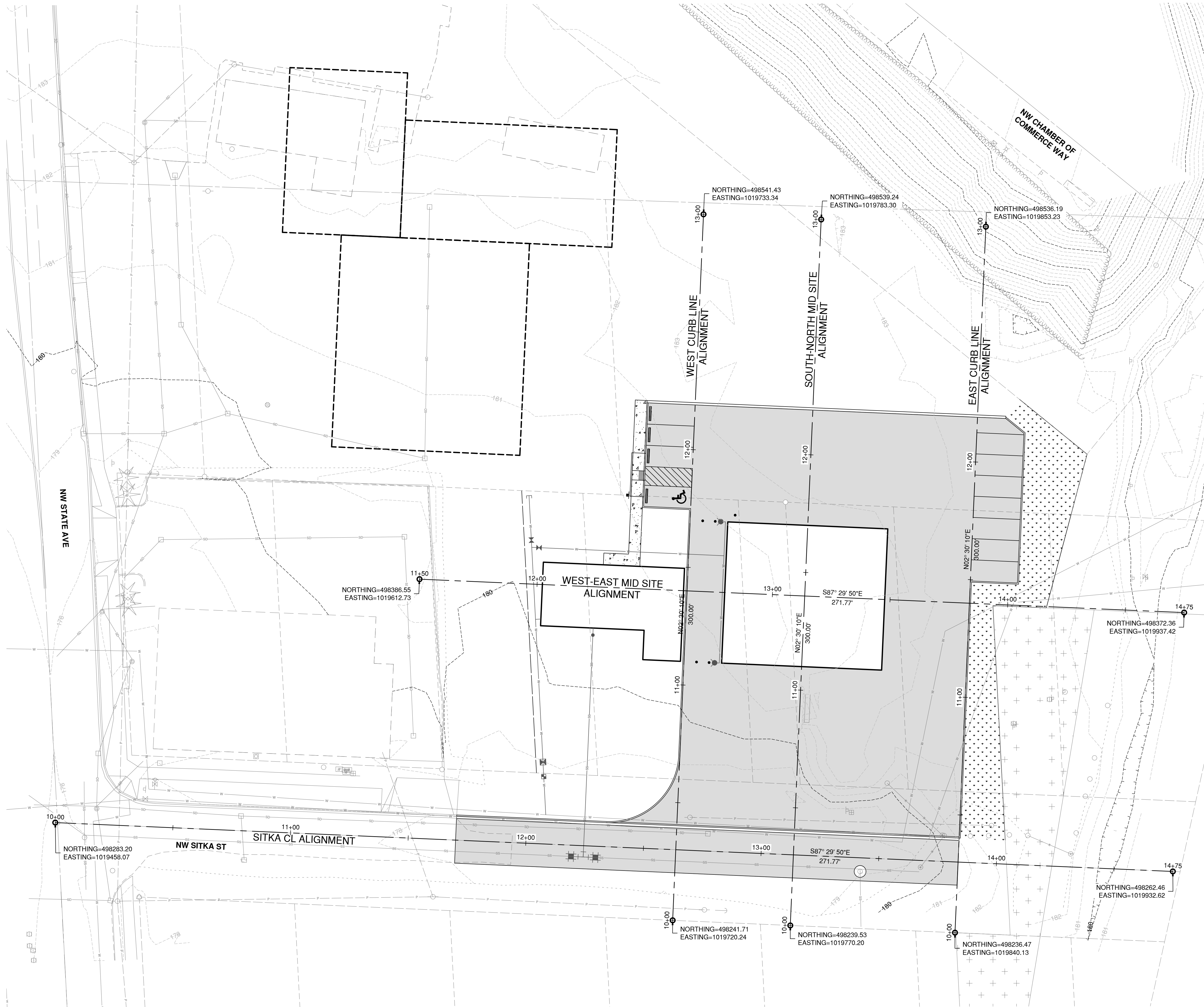
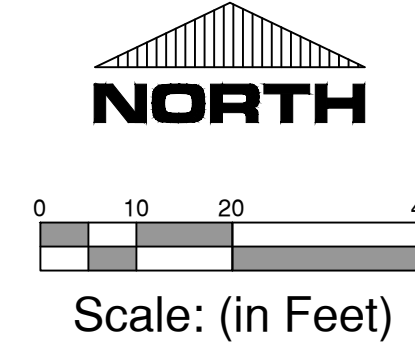
NO.	DATE	DESCRIPTION



STORM DRAIN & GRADING DETAILS

SHEET #

**C30.02**



**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
 CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

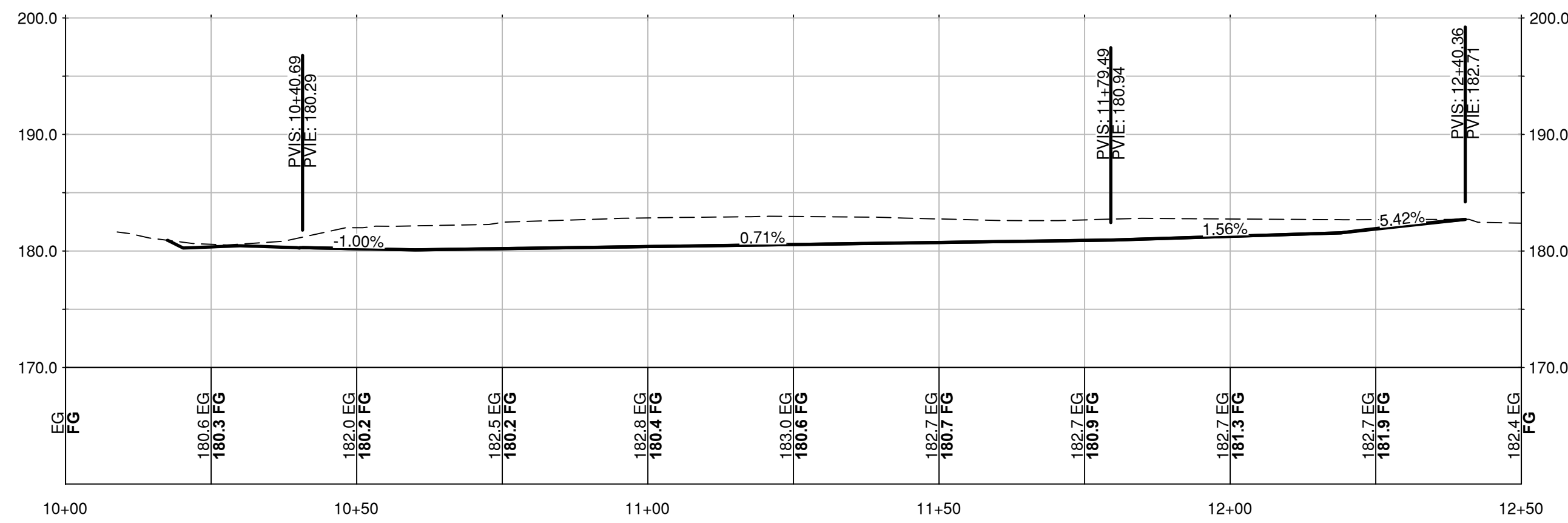
REVISION SCHEDULE	



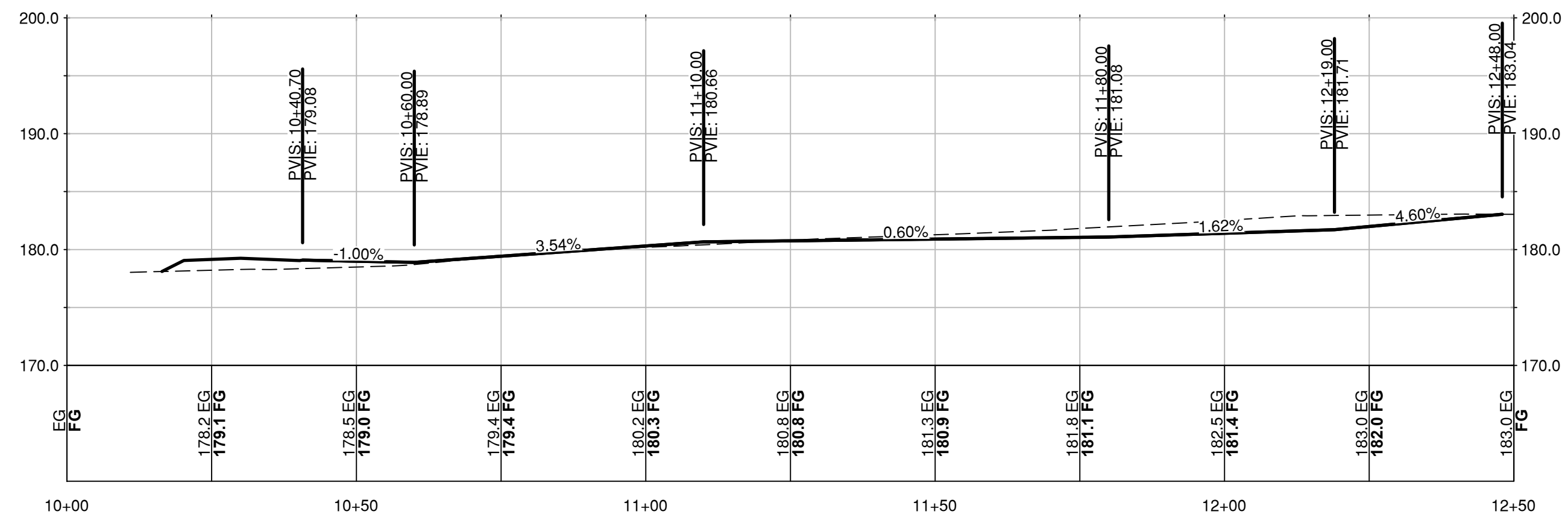
ALIGNMENT PLAN

SHEET #

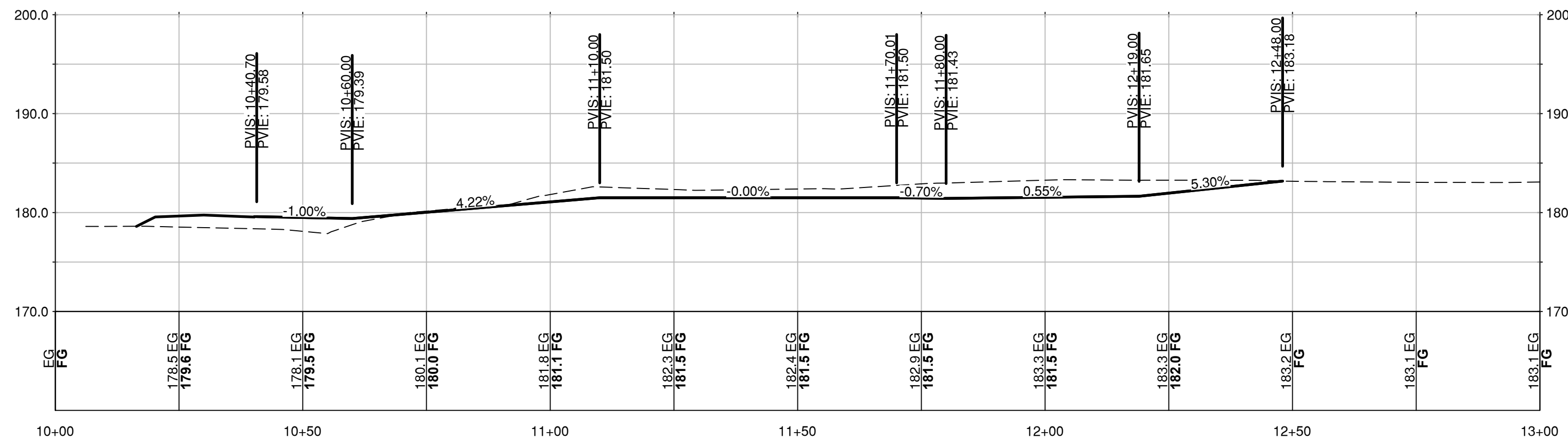
**C30.03**



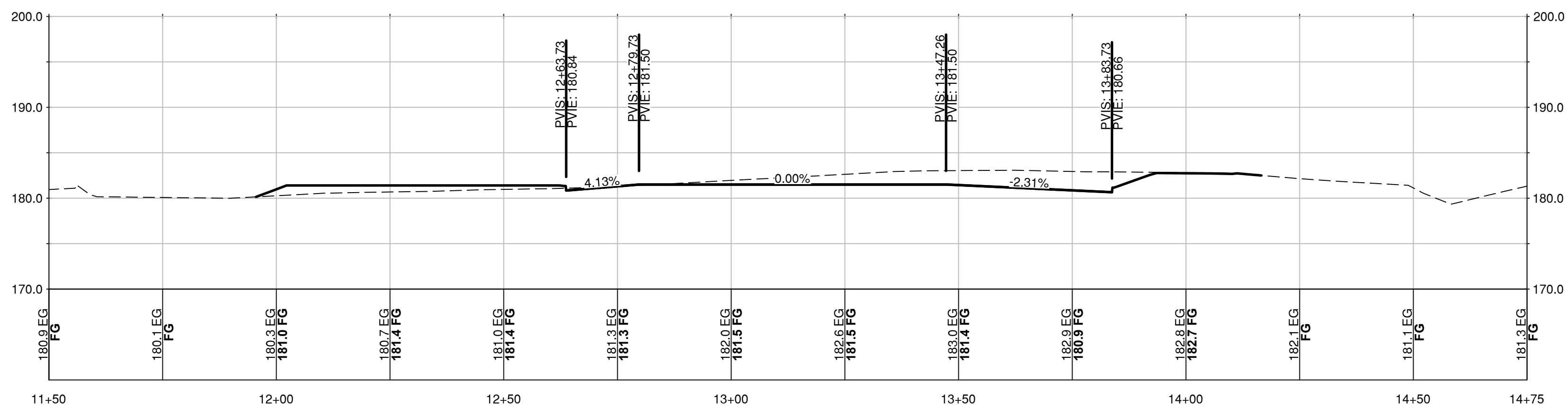
**EAST CURB LINE PROFILE**  
 Horiz Scale: 1" = 20'  
 Vert Scale: 1" = 10'



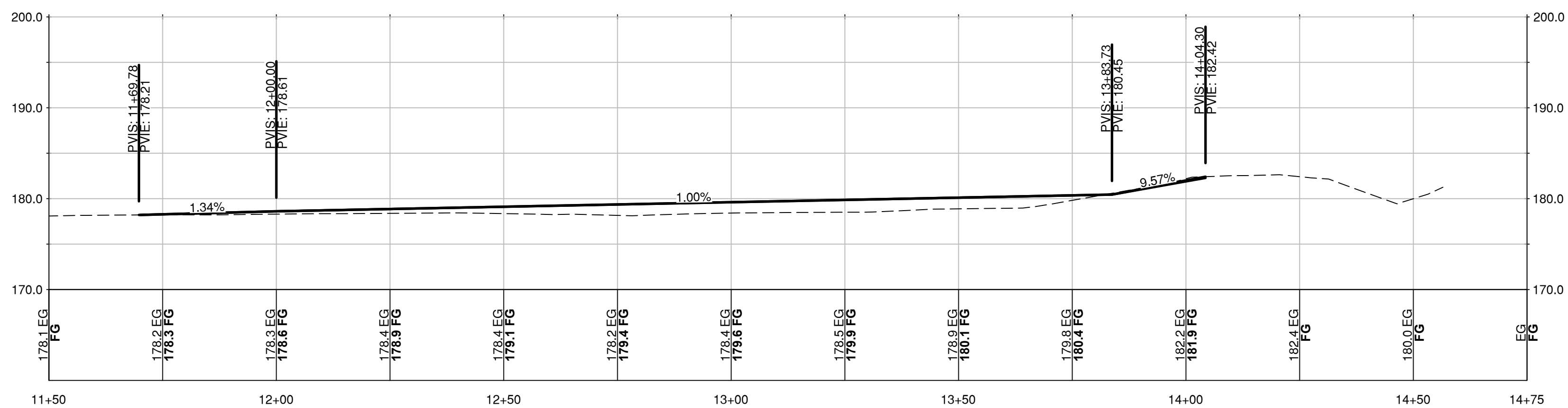
**WEST CURB LINE PROFILE**  
 Horiz Scale: 1" = 20'  
 Vert Scale: 1" = 10'



**WEST-EAST MID SITE PROFILE**  
 Horiz Scale: 1" = 20'  
 Vert Scale: 1" = 10'



**SOUTH-NORTH MID SITE PROFILE**  
 Horiz Scale: 1" = 20'  
 Vert Scale: 1" = 10'



**SITKA CL PROFILE**  
 Horiz Scale: 1" = 20'  
 Vert Scale: 1" = 10'

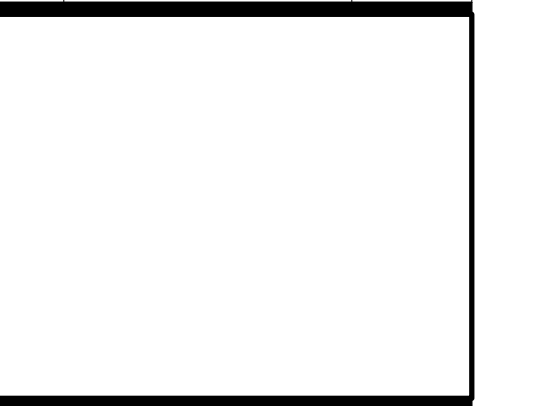
**CITY OF CHEHALIS**  
**TEMPORARY FIRE STATION**  
 CHEHALIS, WASHINGTON

PROJECT # 0155.1082

100%

ISSUE DATE 4/15/2021

REVISION SCHEDULE	



PROFILES

SHEET #

**C30.04**