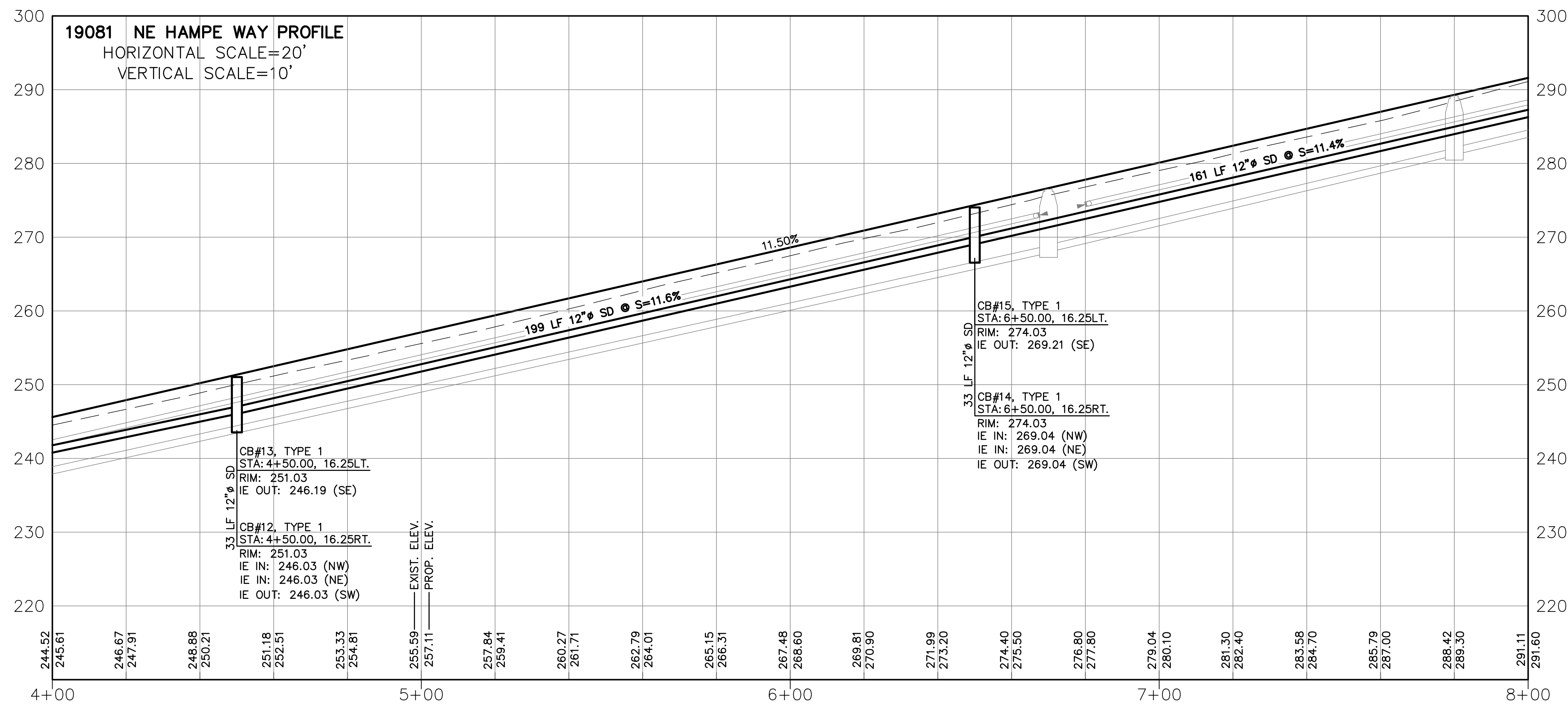


ROAD, STORM AND GRADING NOTES:

- 1 INSTALL NEW TYPE 1 CATCH BASINS PER PLAN AND STD. DETAIL ON SHEET C2.11. ALL CB'S SHALL HAVE VANED INLET GRATES.
- 2 NOT USED.
- 3 INSTALL NEW ADS N12 OR EQUAL STORM MAIN PIPE PER PLAN AND REVIEW AGENCY STANDARDS. BACKFILL PIPE PER STD. DETAIL ON SHEET C2.11. MAINTAIN MINIMUM 2 FEET OF COVER OVER THE ALL STORM PIPE.
- 4 INSTALL 6-INCH PERFORATED PIPE AND TRENCH ALONG ARMORED SECTION OF SLOPE AND DAYLIGHT EXISTING CULVERT INLET WITH SOLID WALL ADS N12 PIPE.
- 5 INSTALL STRUCTURAL ROAD BASE FILL PER PLAN GRADES AND DETAILED ROAD SECTIONS ON SHEET C2.9. CONTRACTOR SHALL FOLLOW PROJECT GEOTECHNICAL REPORT RECOMMENDATIONS FOR STRUCTURAL FILL, PLACEMENT AND COMPACTION.
- 6 INSTALL NEW PUBLIC CITY STREET PER CITY STANDARD STREET SECTION ON SHEET C2.9 AND CURB, GUTTER AND SIDEWALK DETAILS ON SHEET C2.10. SEE SHEET C5.1 FOR STREET LIGHT INSTALLATION.
- 7 GRADE ALL SLOPES PER PLAN, SLOPES SHALL BE SCARIFIED BY TRACKED EQUIPMENT, HYDRO-SEEDED AND COVERED WITH JUTE MATTING ANCHORED TO THE SLOPE. WATTLES SHALL BE ANCHORED IN THE SLOPE AT 25-FOOT INTERVALS.
- 8 FILL ON SLOPES SHALL BE BENCHED PER SECTION DETAIL C ON SHEET C2.9.
- 9 STA. 6+93 CONSTRUCT 12-FT WIDE BY 19-FT LONG ASPHALT ACCESS TO WATERMAIN PUMPHOUSE PER PLAN. SLOPE 2.0% TOWARDS ROADWAY.
- 10 CONSTRUCT 5-FT WIDE CONCRETE DRIVEWAY AND ADA RAMPS WITH 2-FT WIDE TRUNCATED LANDING FOR ACCESS PER PLAN.



NO.	DATE	
DESIGNED BY: <u>RWB</u>	DRAWN BY: <u>ALE</u>	CHECKED BY: <u>RWB</u>
		DATE: <u>08/29/2023</u>
		SCALE: <u>1" = 20'</u>

HAMPE ROAD AND STORM PLAN AND PROFILE

DESIGNED BY: RWB DRAWN BY: ALE CHECKED BY: RWB

DATE: 08/29/2023 SCALE: 1" = 20'

HAMPE WAY ROAD AND UTILITY

CHEHALIS WA.

RB Engineering

DESIGN → PERMIT → MANAGE

P.O. Box 923 CHEHALIS, WA 98532 OFF: (360) 740-8919 EMAIL: info@rbengineering.com

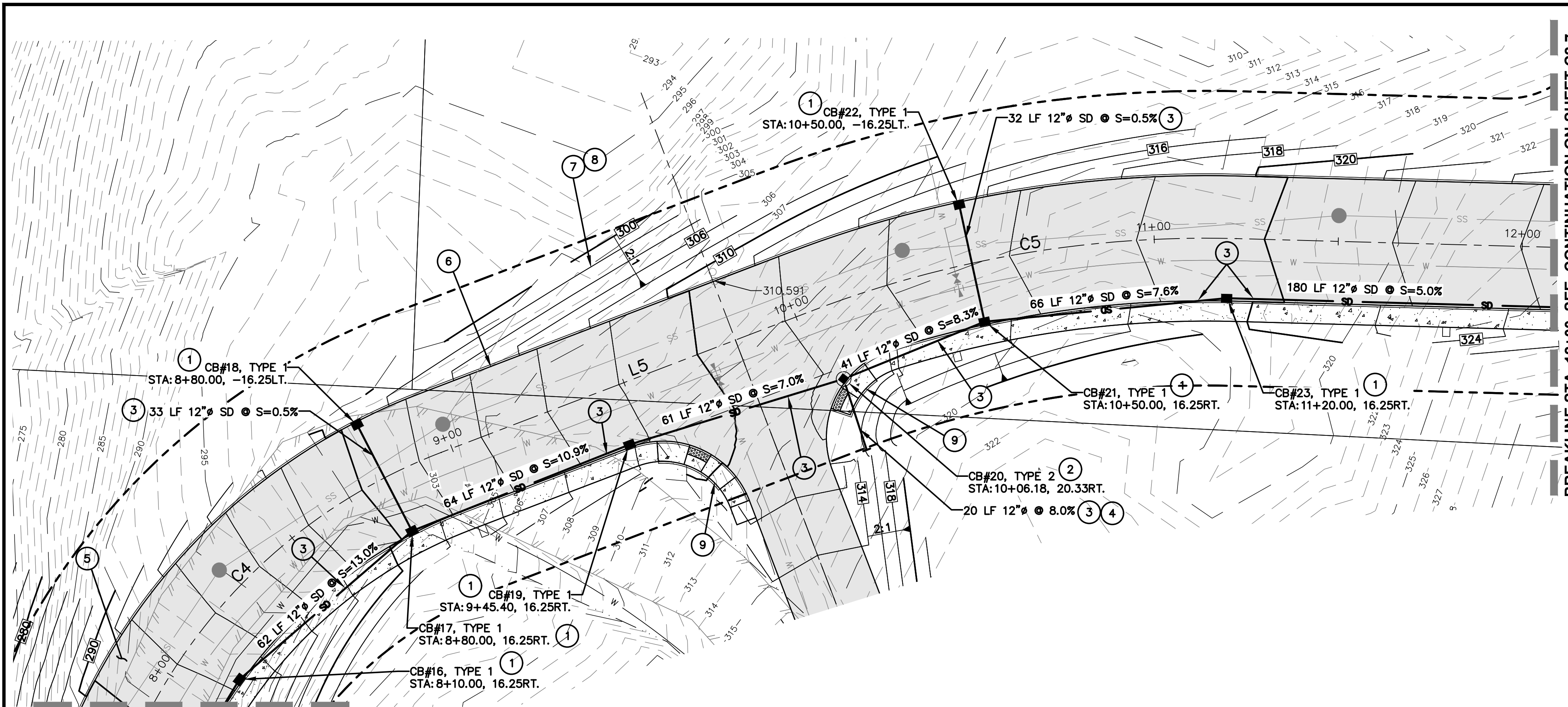
811 Know what's below. Call 811 before you dig.

JOB NUMBER: 19081

DRAWING NAME: 19081_C2.5_RDPP2

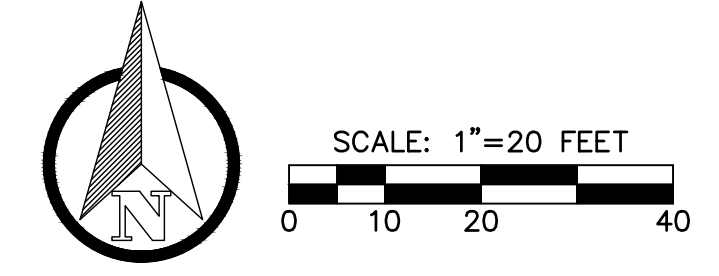
C2.5

9 OF 24



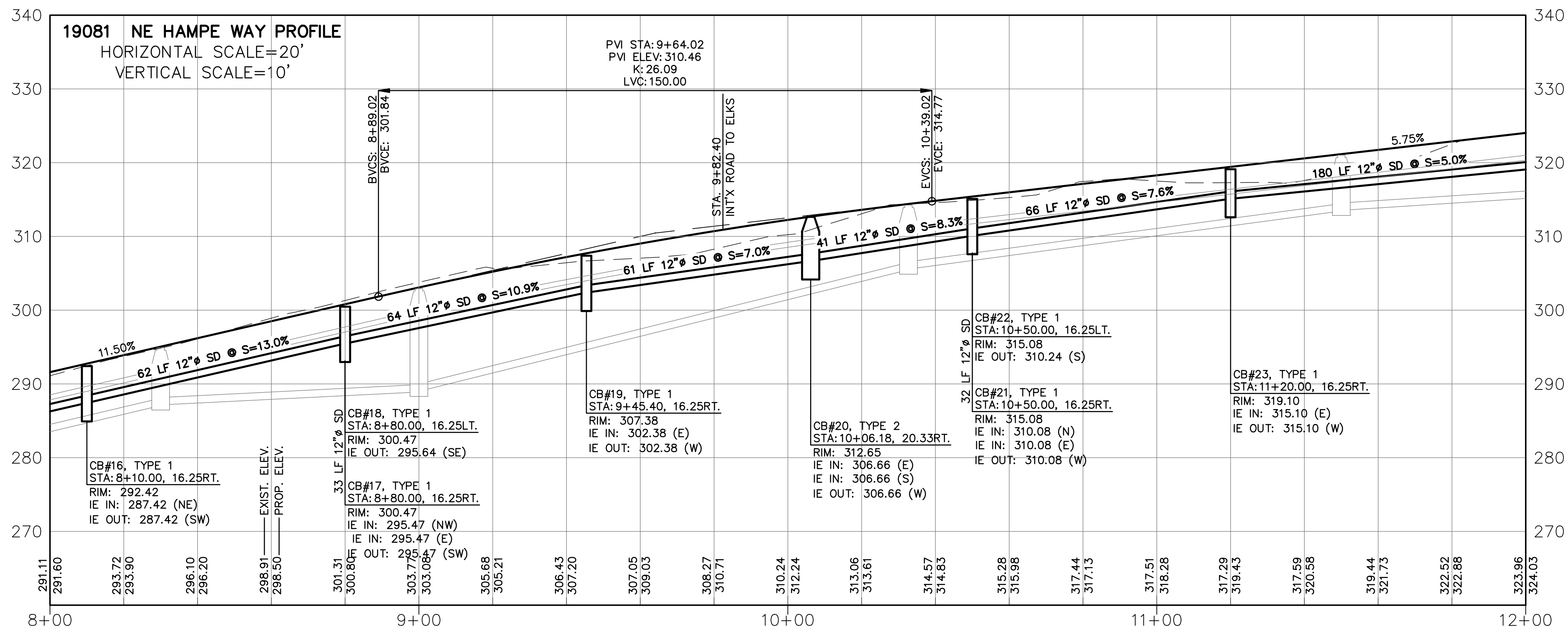
BREAKLINE STA. 8+00, SEE CONTINUATION ON SHEET C2.5.

BREAKLINE STA. 12+00, SEE CONTINUATION ON SHEET C2.7.

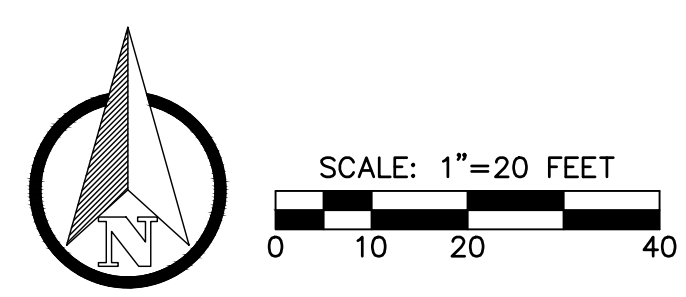
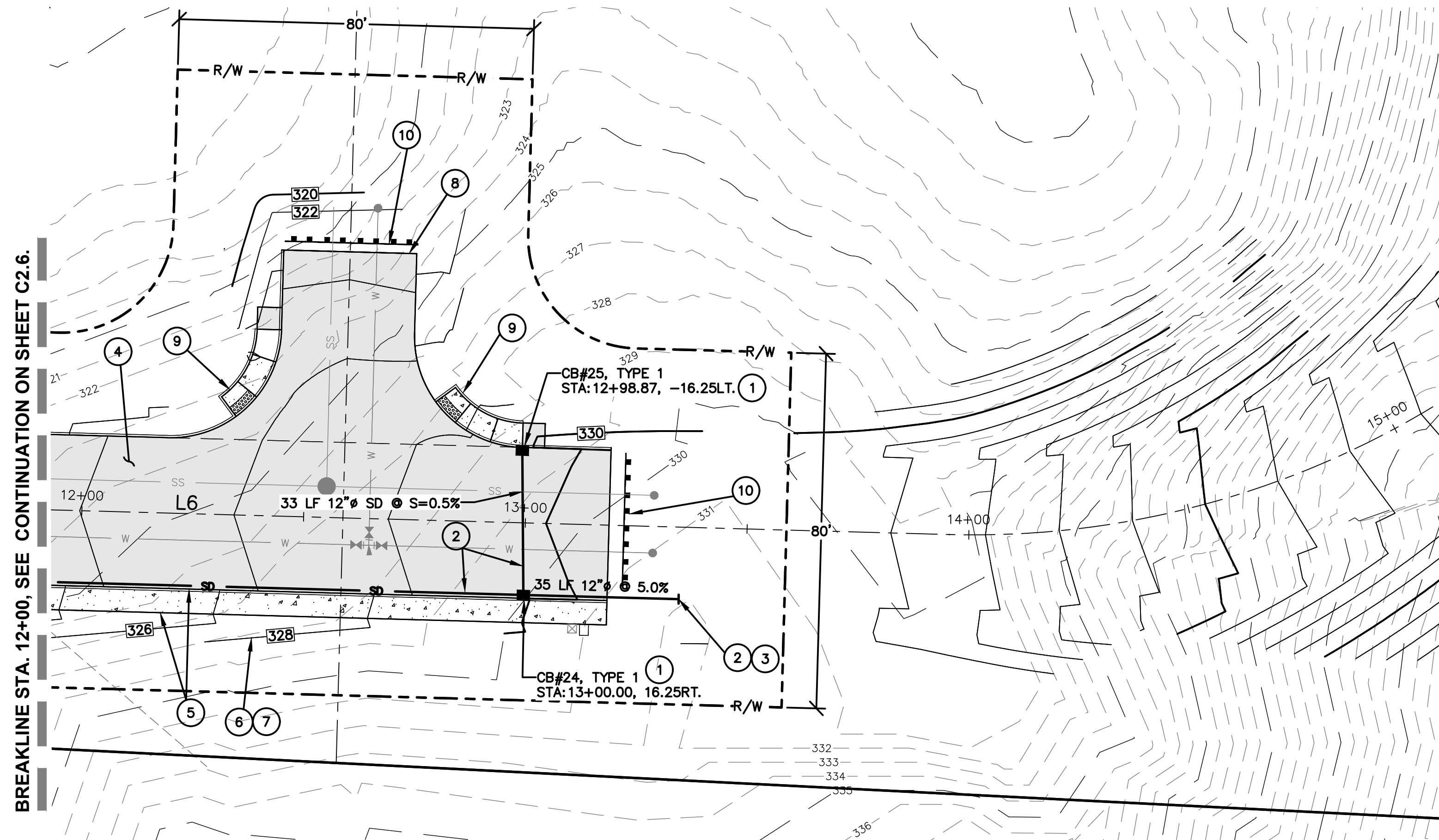


ROAD, STORM AND GRADING NOTES:

- 1 INSTALL NEW TYPE 1 CATCH BASIN PER PLAN AND STD. DETAIL ON SHEET C2.11. ALL CB'S SHALL HAVE VANED INLET GRATES.
- 2 INSTALL NEW TYPE 2 CATCH BASIN PER PLAN AND STD. DETAIL ON SHEET C2.11. ALL CB'S SHALL HAVE VANED INLET GRATES.
- 3 INSTALL NEW ADS N12 OR EQUAL STORM MAIN PIPE PER PLAN AND REVIEW AGENCY STANDARDS. BACKFILL PIPE PER STD. DETAIL ON SHEET C2.11. MAINTAIN MINIMUM 2 FEET OF COVER OVER THE ALL STORM PIPE.
- 4 PROVIDE 12-INCH SD PIPE STUB OUT OF CB#21 FOR FUTURE CONNECTION TO ELKS PROPERTY STORMWATER POND OUTLET.
- 5 INSTALL STRUCTURAL ROAD BASE FILL PER PLAN GRADES AND DETAILED ROAD SECTIONS ON SHEET C2.9. CONTRACTOR SHALL FOLLOW PROJECT GEOTECHNICAL REPORT RECOMMENDATIONS FOR STRUCTURAL FILL, PLACEMENT AND COMPACTION.
- 6 INSTALL NEW PUBLIC CITY STREET PER CITY STANDARD STREET SECTION ON SHEET C2.10 AND CURB, GUTTER AND SIDEWALK DETAILS ON SHEET C2.10. SEE SHEET C5.1 FOR STREET LIGHT INSTALLATION.
- 7 GRADE ALL SLOPES PER PLAN, SLOPES SHALL BE SCARIFIED BY TRACKED EQUIPMENT, HYDRO-SEEDED AND COVERED WITH JUT MATTING ANCHORED TO THE SLOPE. WATTLES SHALL BE ANCHORED IN THE SLOPE AT 25-FOOT INTERVALS.
- 8 FILL ON SLOPES SHALL BE BENCHES AS SHOWN ON SHEET C2.9.
- 9 CONSTRUCT PARALLEL CURB RAMPS PER CITY STANDARDS AND DETAIL ON SHEET C2.10. SEE ELEVATIONS ON SHEET C2.8.

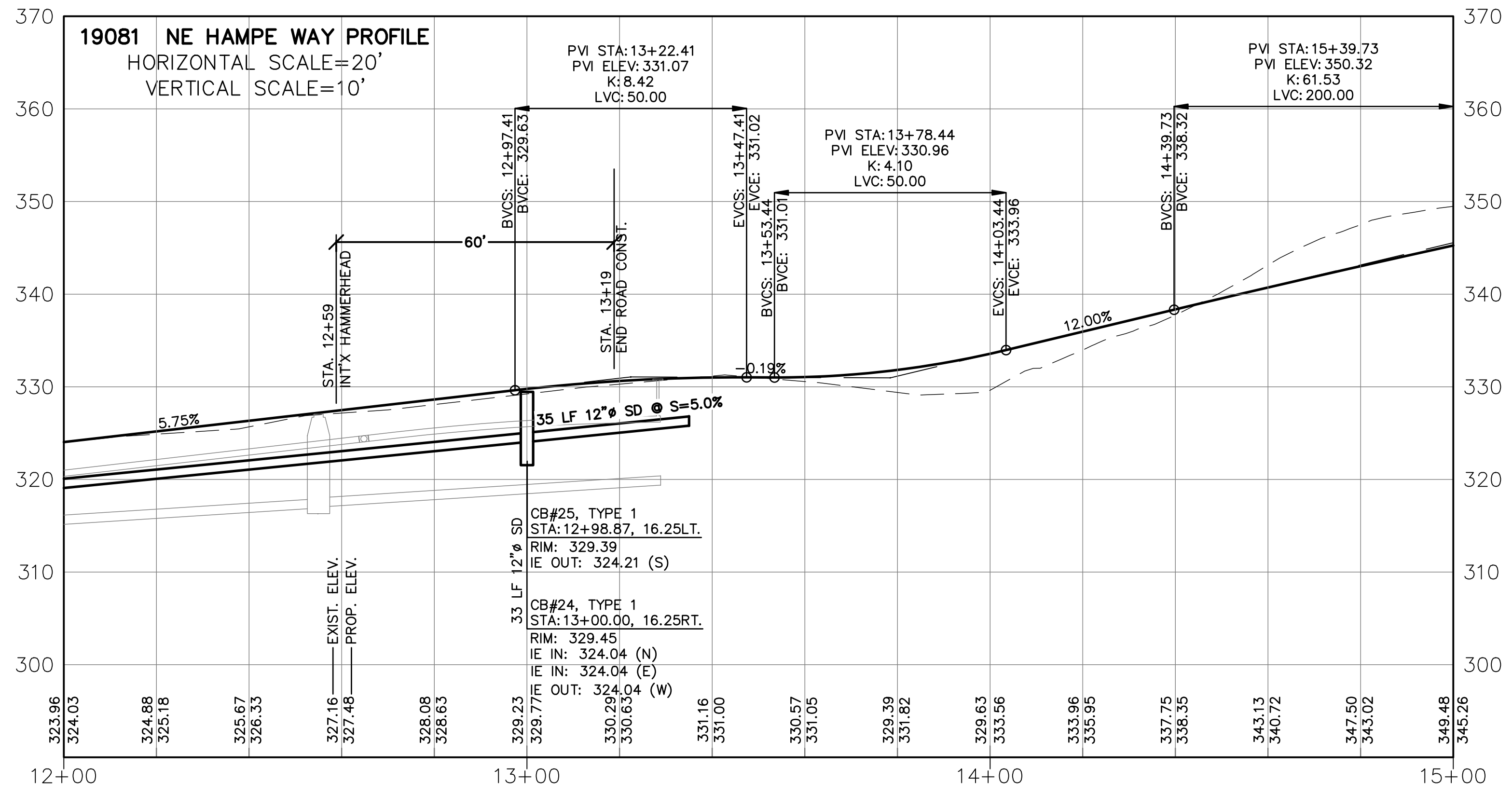


NO.	DATE	DESIGNED BY: <u>RWB</u>	DRAWN BY: <u>ALE</u>	CHECKED BY: <u>RWB</u>	DATE: <u>08/29/2023</u>	SCALE: <u>1" = 20'</u>
HAMPE ROAD AND STORM AND UTILITY						
HAMPE ROAD AND STORM PLAN AND PROFILE						
RB Engineering DESIGN → PERMIT → MANAGE P.O. Box 923 CHEHALIS, WA 98532 OFF: (360) 740-8819 EMAIL: info@rbengineering.com						
JOB NUMBER: <u>19081</u> DRAWING NAME: <u>19081_C2.6_RDP3</u> C2.6 10 OF 24						



ROAD, STORM AND GRADING NOTES:

- 1 INSTALL NEW TYPE 1 CATCH BASIN PER PLAN AND STD. DETAIL ON SHEET C2.11. ALL CB'S SHALL HAVE VANED INLET GRATES.
- 2 INSTALL NEW ADS N12 OR EQUAL STORM MAIN PIPE PER PLAN AND REVIEW AGENCY STANDARDS. BACKFILL PIPE PER STD. DETAIL ON SHEET C2.11. MAINTAIN MINIMUM 2 FEET OF COVER OVER THE ALL STORM PIPE.
- 3 STUB SD PIPE 10 FEET PAST END OF ASPHALT AND FIELD LOCATE WITH 10 FT 2X4 PAINTED GREEN.
- 4 INSTALL STRUCTURAL ROAD BASE FILL PER PLAN GRADES AND DETAILED ROAD SECTIONS ON SHEET C2.9. CONTRACTOR SHALL FOLLOW PROJECT GEOTECHNICAL REPORT RECOMMENDATIONS FOR STRUCTURAL FILL, PLACEMENT AND COMPACTION.
- 5 INSTALL NEW PUBLIC CITY STREET PER CITY STANDARD STREET SECTION ON SHEET C2.10 AND CURB, GUTTER AND SIDEWALK DETAILS ON SHEET C2.10. SEE SHEET C5.1 FOR STREET LIGHT INSTALLATION.
- 6 GRADE ALL SLOPES PER PLAN, SLOPES SHALL BE SCARIFIED BY TRACKED EQUIPMENT, HYDRO-SEEDED AND COVERED WITH JUT MATTING ANCHORED TO THE SLOPE. WATTLES SHALL BE ANCHORED IN THE SLOPE AT 25 FOOT INTERVALS.
- 7 FILL ON SLOPES SHALL BE BENCHES AS SHOWN ON SHEET C2.9.
- 8 INSTALL NEW EMERGENCY HAMMERHEAD TURNAROUND PER PLAN AND DETAIL ON SHEET C2.10.
- 9 CONSTRUCT PARALLEL CURB RAMPS PER CITY STANDARDS AND DETAIL ON SHEET C2.10. SEE ELEVATIONS ON SHEET C2.8.
- 10 PROVIDE TYPE 3 BARRICADE PER STD. WSDOT DETAIL ON SHEET C2.10.



DESIGNED BY: <u>RWB</u>	REVISION
DRAWN BY: <u>ALE</u>	NO.
CHECKED BY: <u>RWB</u>	DATE
DATE: <u>08/29/2023</u>	
SCALE: <u>1" = 20'</u>	

HAMPE ROAD AND STORM PLAN AND PROFILE

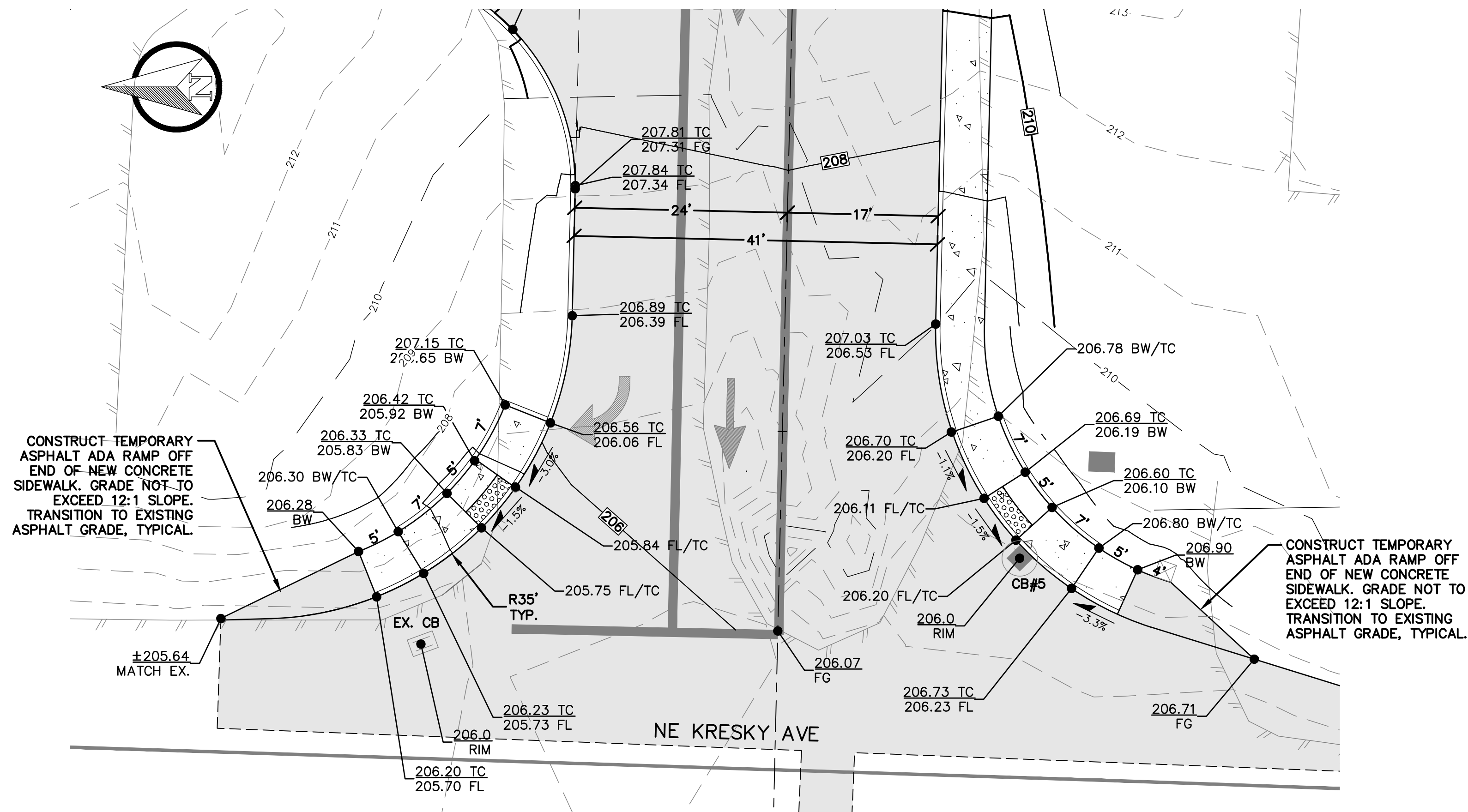
HAMPE WAY ROAD AND UTILITY

CHEHALIS WA.

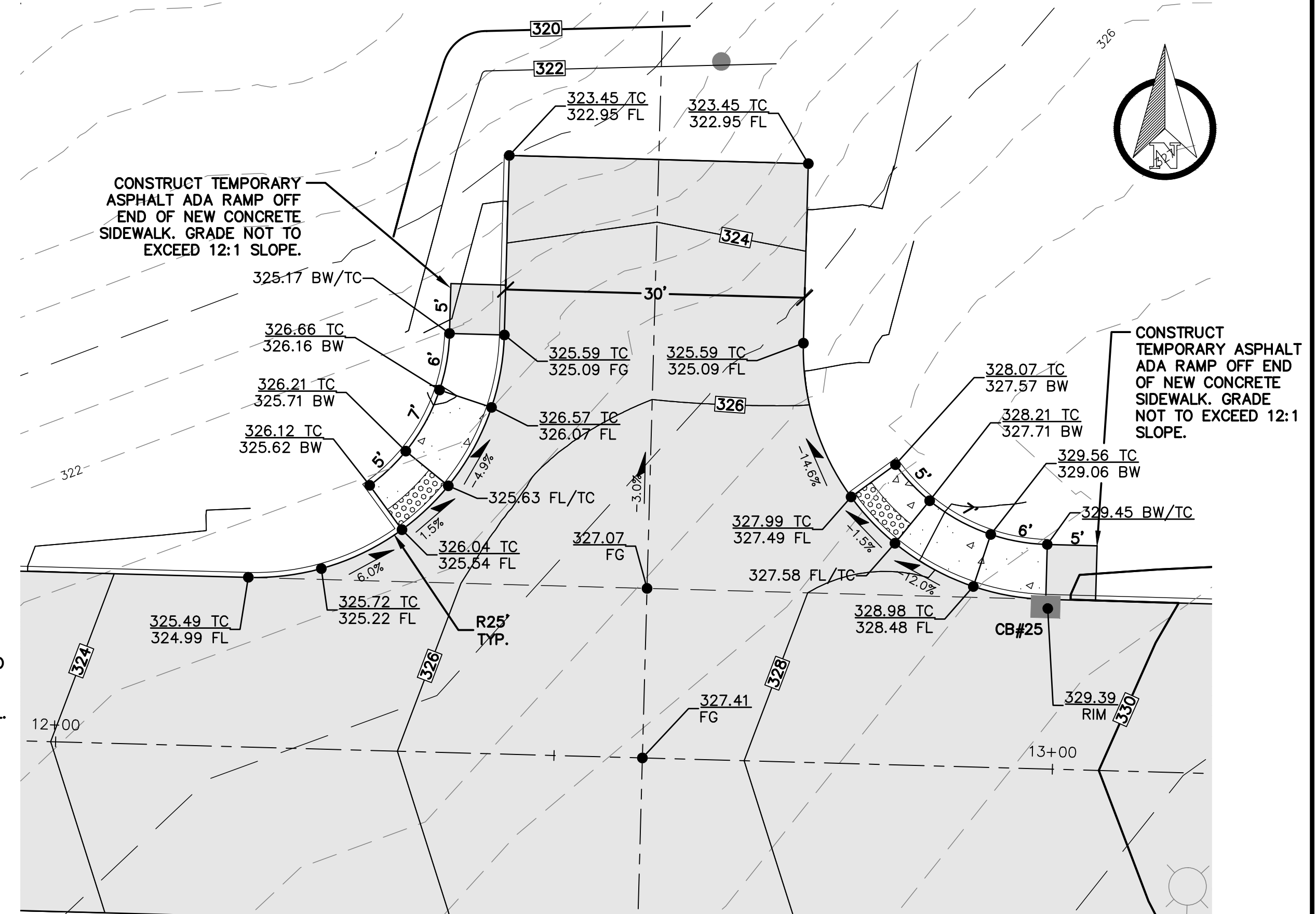
RB Engineering
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 P.O. Box 923, CHEHALIS, WA 98532
 OFF: (360) 740-8819, EMAIL: info@rbengineering.com

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

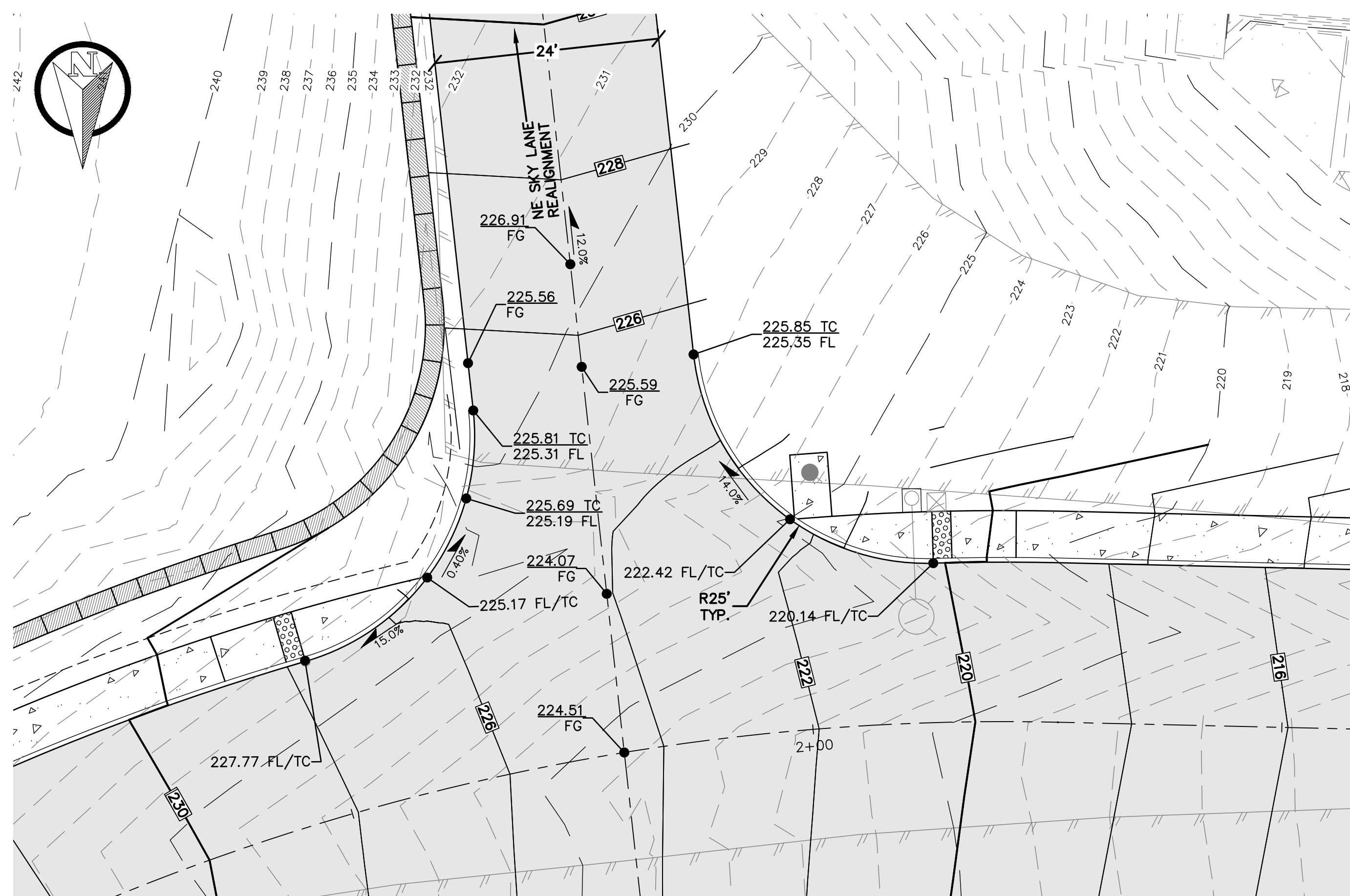
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 DRAWING NAME: 19081_C2.7_RDP
C2.7
 11 OF 24



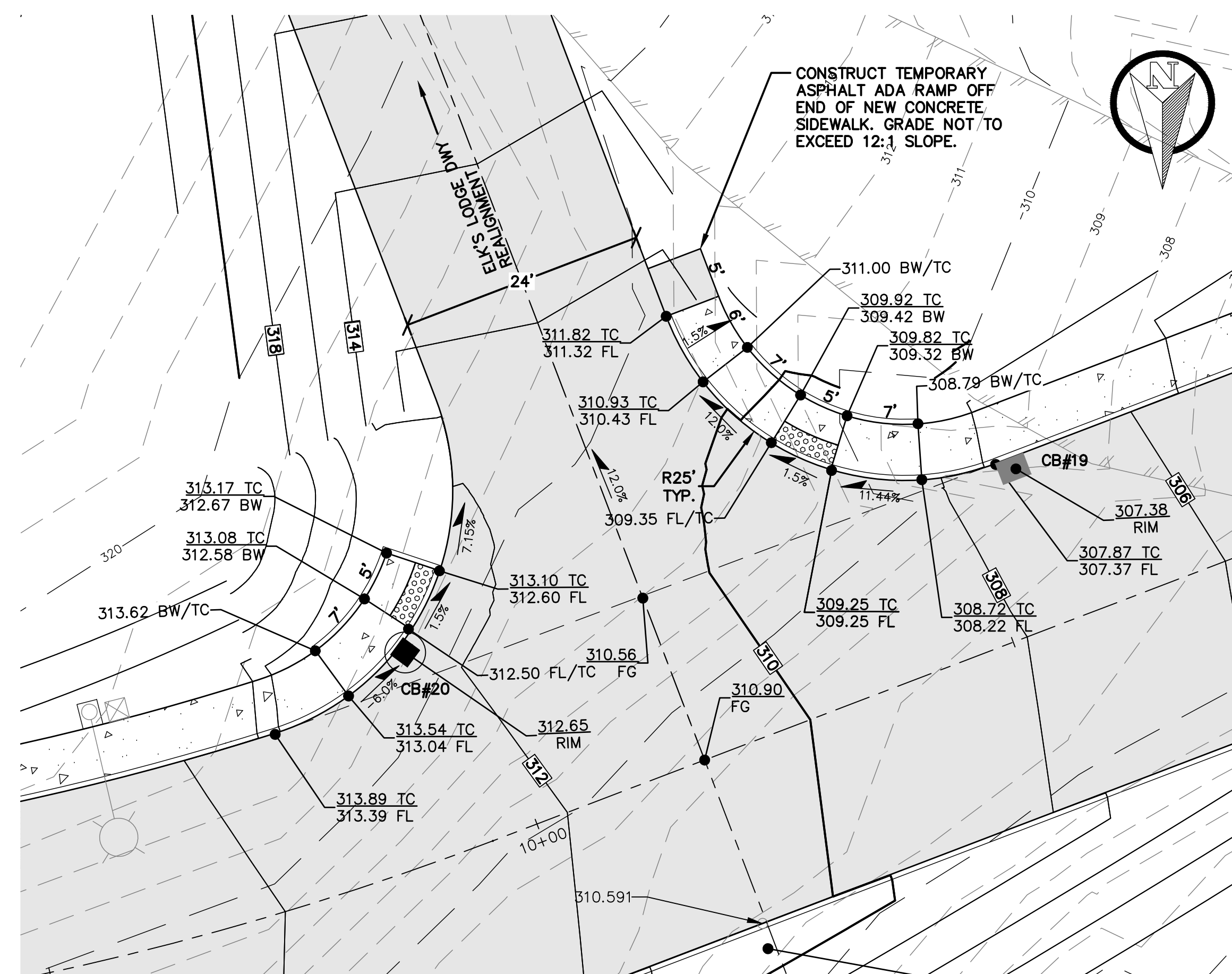
○ NE KRESKY AVE/NE HAMPE WAY INTERSECTION DETAIL
1"=10'



○ NE HAMPE WAY/HAMMERHEAD INTERSECTION DETAIL
1"=10'



○ NE HAMPE WAY/NE SKY LANE INTERSECTION DETAIL
1"=10'



○ NE HAMPE WAY/ELK'S LODGE INTERSECTION DETAIL
1"=10'

NO.	DATE	REVISION
DESIGNED BY:	RWB	
DRAWN BY:	ALE	
CHECKED BY:	RWB	
DATE:	08/29/2023	
SCALE:	1" = 10'	

WA.
CHEHALIS

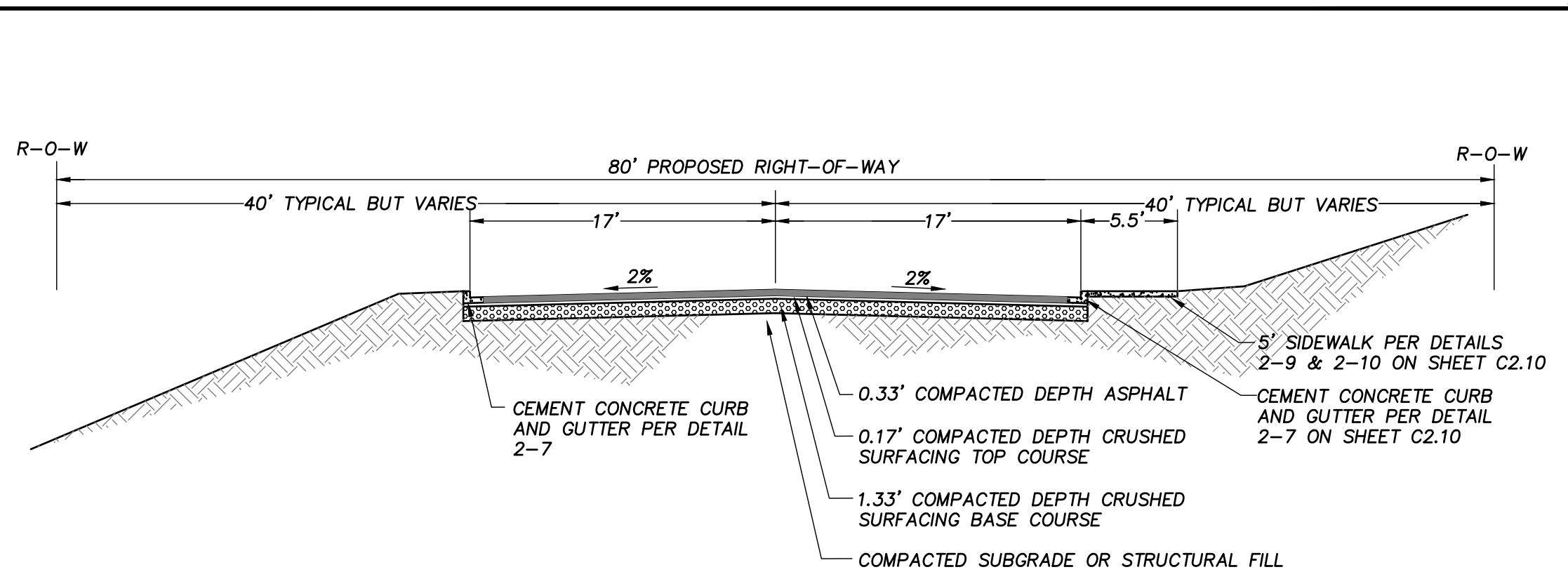
HAMPE WAY ROAD AND UTILITY

KRESKY / HAMPE INTERSECTION DETAIL

RB Engineering
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P.O. Box 923
CHEHALIS, WA 98532
OFF: (360) 740-8819
EMAIL: CivPro@RBEng.com

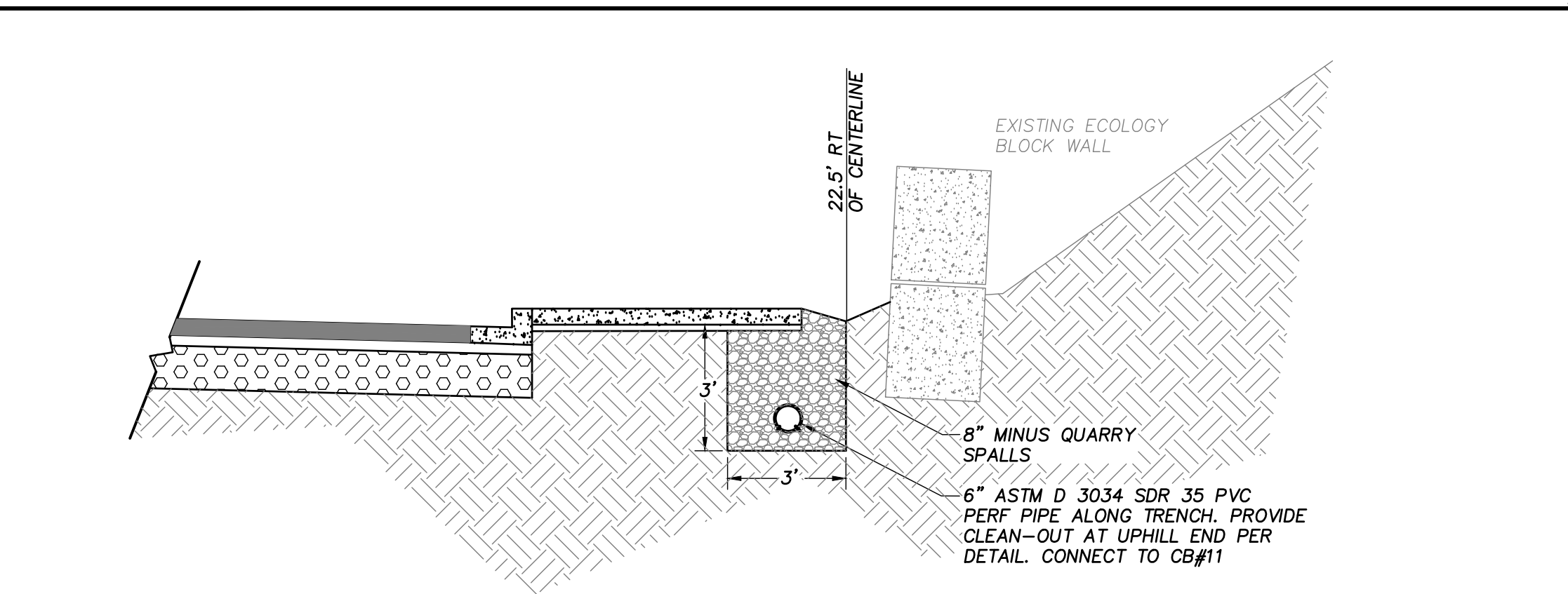
811 Know what's below. Call 811 before you dig.

JOB NUMBER
19081
DRAWING NAME
19081_C2.8_INTDT
C2.8
12 OF 24

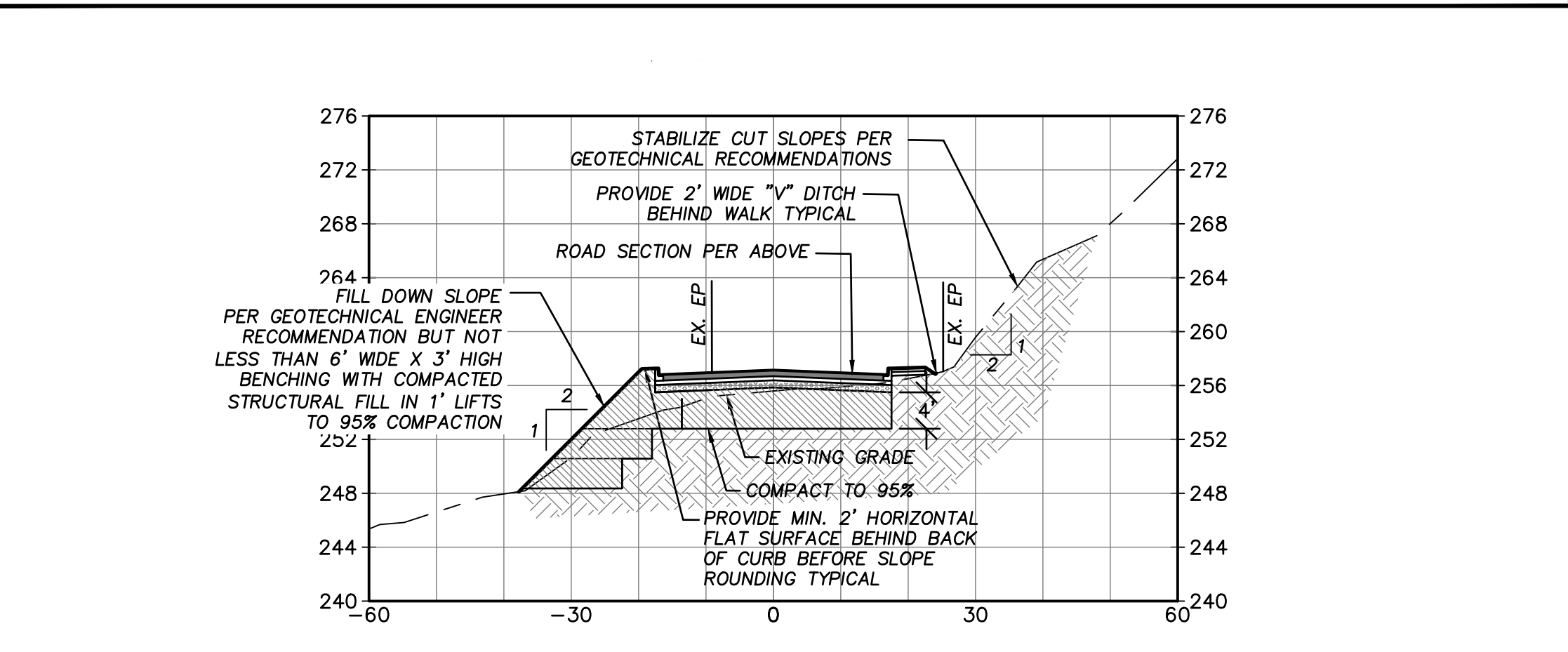


*ALL DEPTH ARE COMPACTED TO 95% MAX. DENSITY

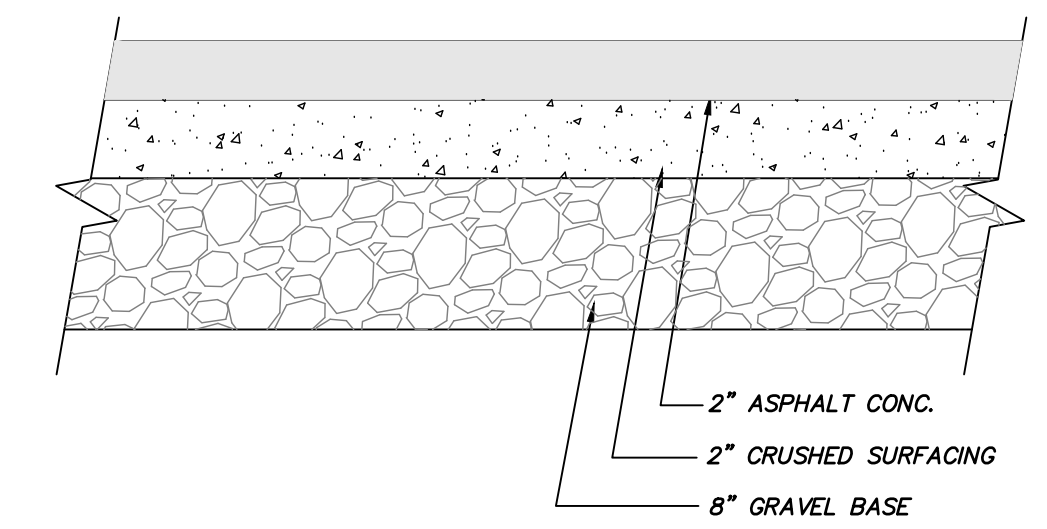
A TYPICAL PUBLIC ROAD SECTION
N.T.S. RB ENGINEERING
ROAD_XSEC_CS.dwg



B UNDERDRAIN STA. 3+85 TO STA. 5+30
N.T.S. RB ENGINEERING
TYP_CS_CNDN.dwg



C ROAD STRUCTURAL CONSTRUCTION SECTION
N.T.S. RB ENGINEERING
TYP_CS_CNDN.dwg



THIS REPRESENTS THE MINIMUM SECTION TO BE USED. IF POOR SUBGRADE SOILS ARE ENCOUNTERED THAT WILL PREVENT THE BASE COURSE FROM MEETING COMPACTION, NOTIFY THE ENGINEER.

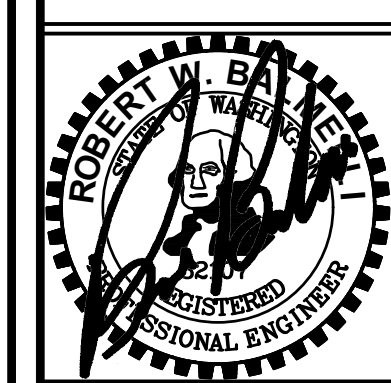
PAVING SECTION FOR PARKING LOT AND DRIVEWAYS
N.T.S. RB ENGINEERING
PAVING_SECTION.dwg

NO.	DATE	REVISION

DESIGNED BY: RWB
DRAWN BY: ALE
CHECKED BY: RWB
DATE: 08/29/2023
SCALE: N.T.S.

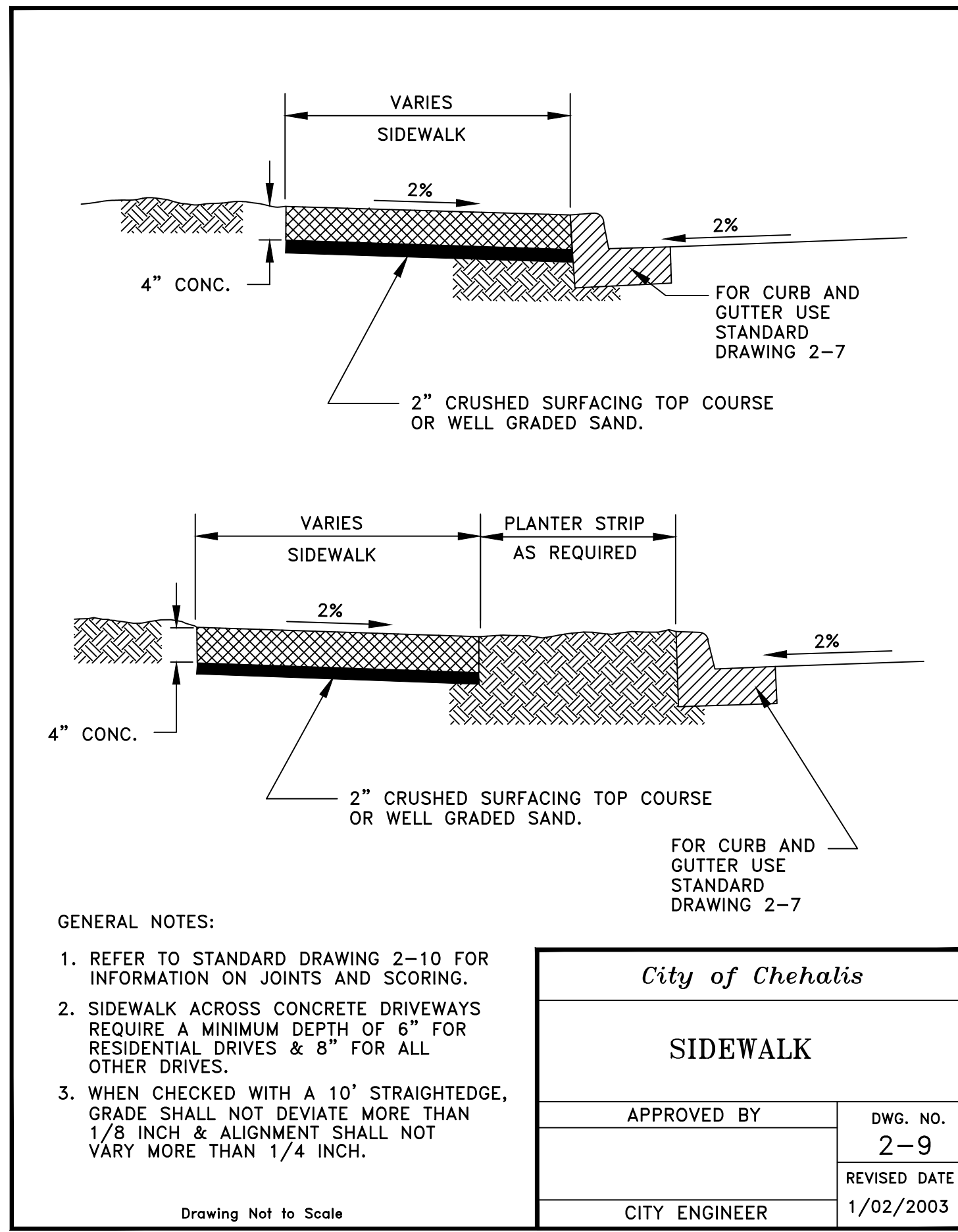
HAMPE WAY ROAD AND UTILITY
CHEHALIS WA.

ROADWAY SECTION DETAILS



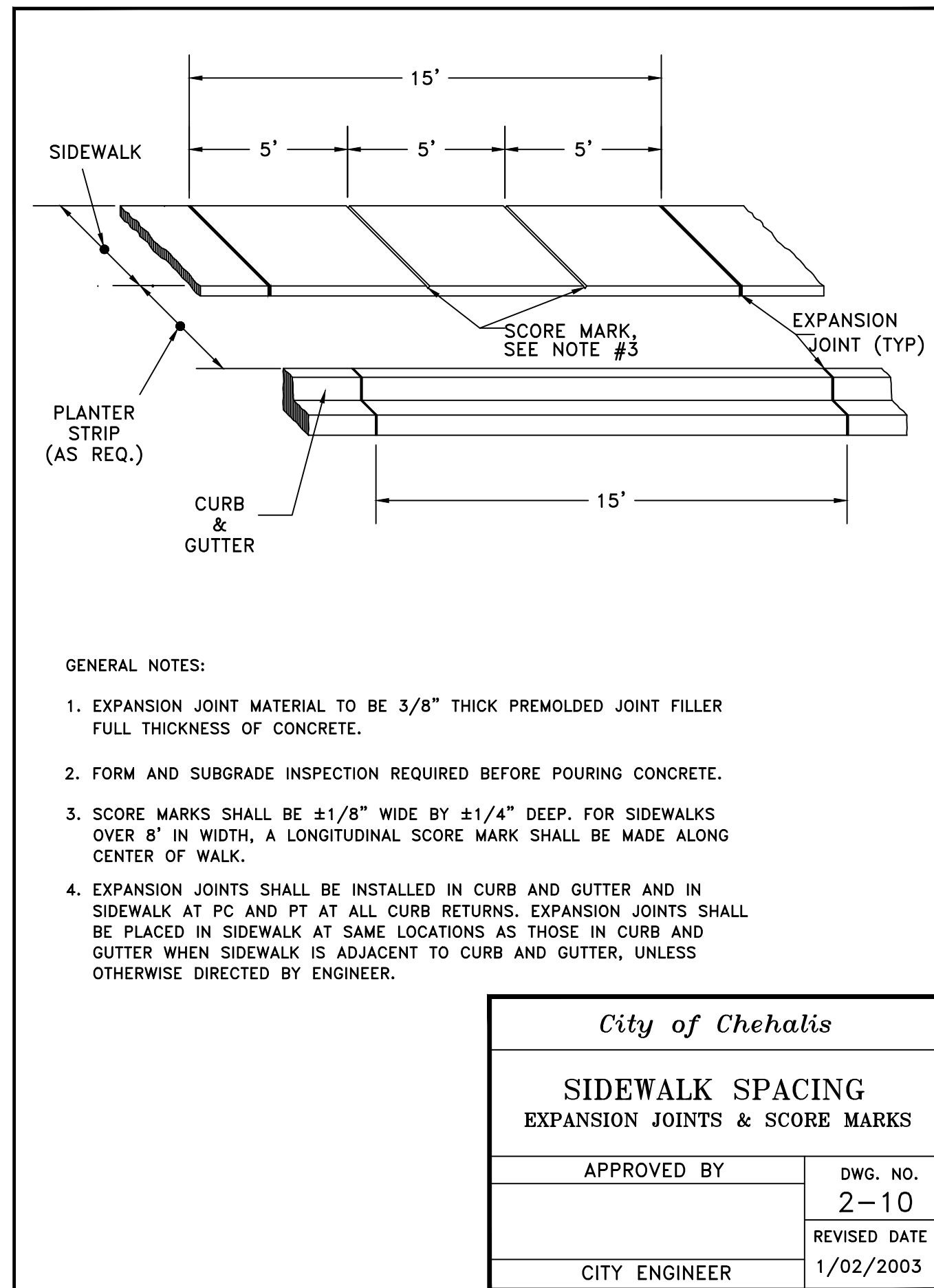
RB Engineering
DESIGN → PERMIT → MANAGE
P.O. Box 923
CHEHALIS, WA 98532
OFF: (360) 740-8819
EMAIL: info@rbengineering.com

811 Know what's below. Call 811 before you dig.
JOB NUMBER: 19081
DRAWING NAME: 19081_2.9_RDCS
C2.9
13 OF 24



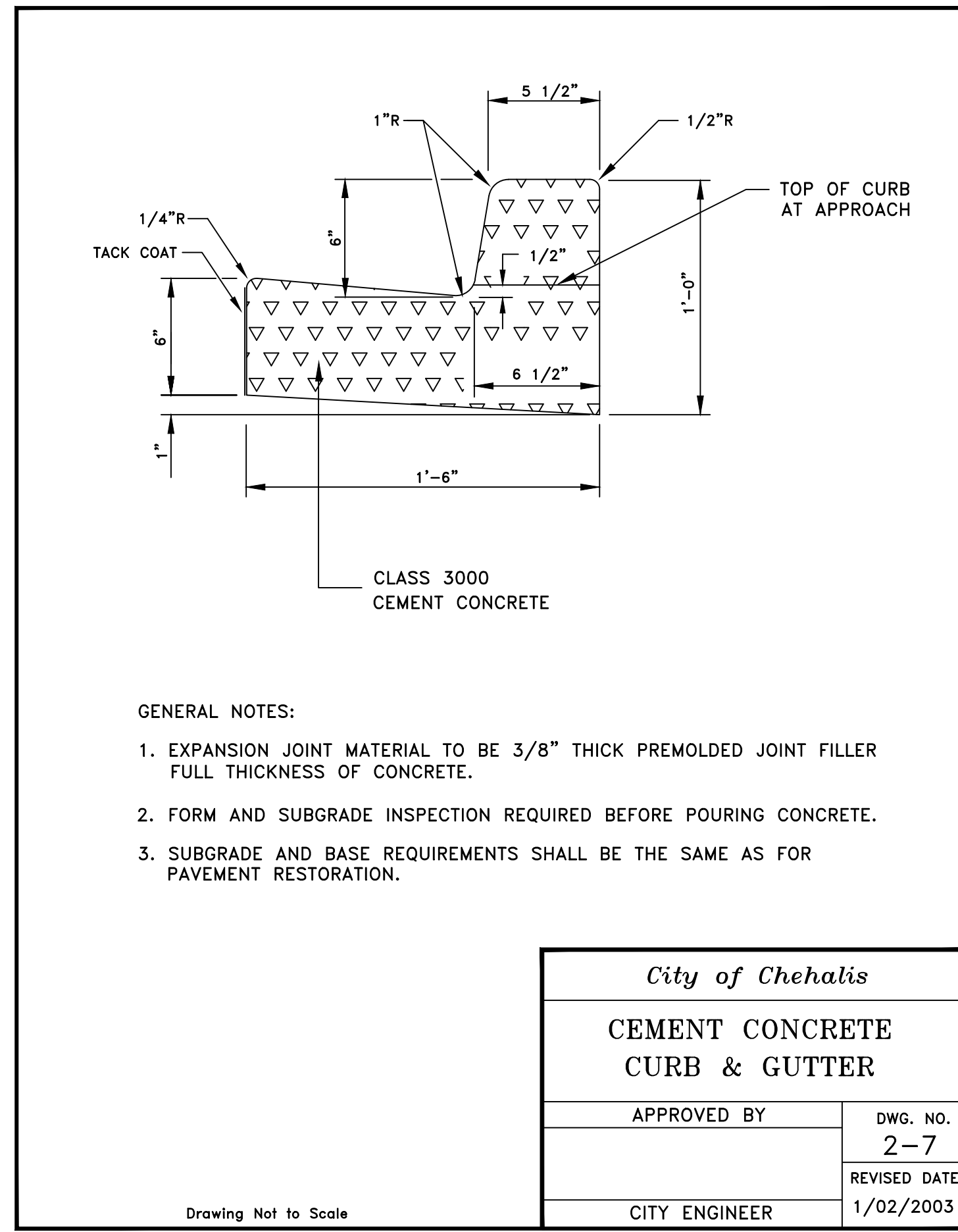
- GENERAL NOTES:
- REFER TO STANDARD DRAWING 2-10 FOR INFORMATION ON JOINTS AND SCORING.
 - SIDEWALK ACROSS CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6" FOR RESIDENTIAL DRIVES & 8" FOR ALL OTHER DRIVES.
 - WHEN CHECKED WITH A 10' STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8" INCH & ALIGNMENT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

<i>City of Chehalis</i>	
SIDEWALK	
APPROVED BY	DWG. NO.
	2-9
	REVISED DATE
CITY ENGINEER	1/02/2003



- GENERAL NOTES:
- EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
 - FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
 - 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.
 - 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.

<i>City of Chehalis</i>	
SIDEWALK SPACING EXPANSION JOINTS & SCORE MARKS	
APPROVED BY	DWG. NO.
	2-10
	REVISED DATE
CITY ENGINEER	1/02/2003

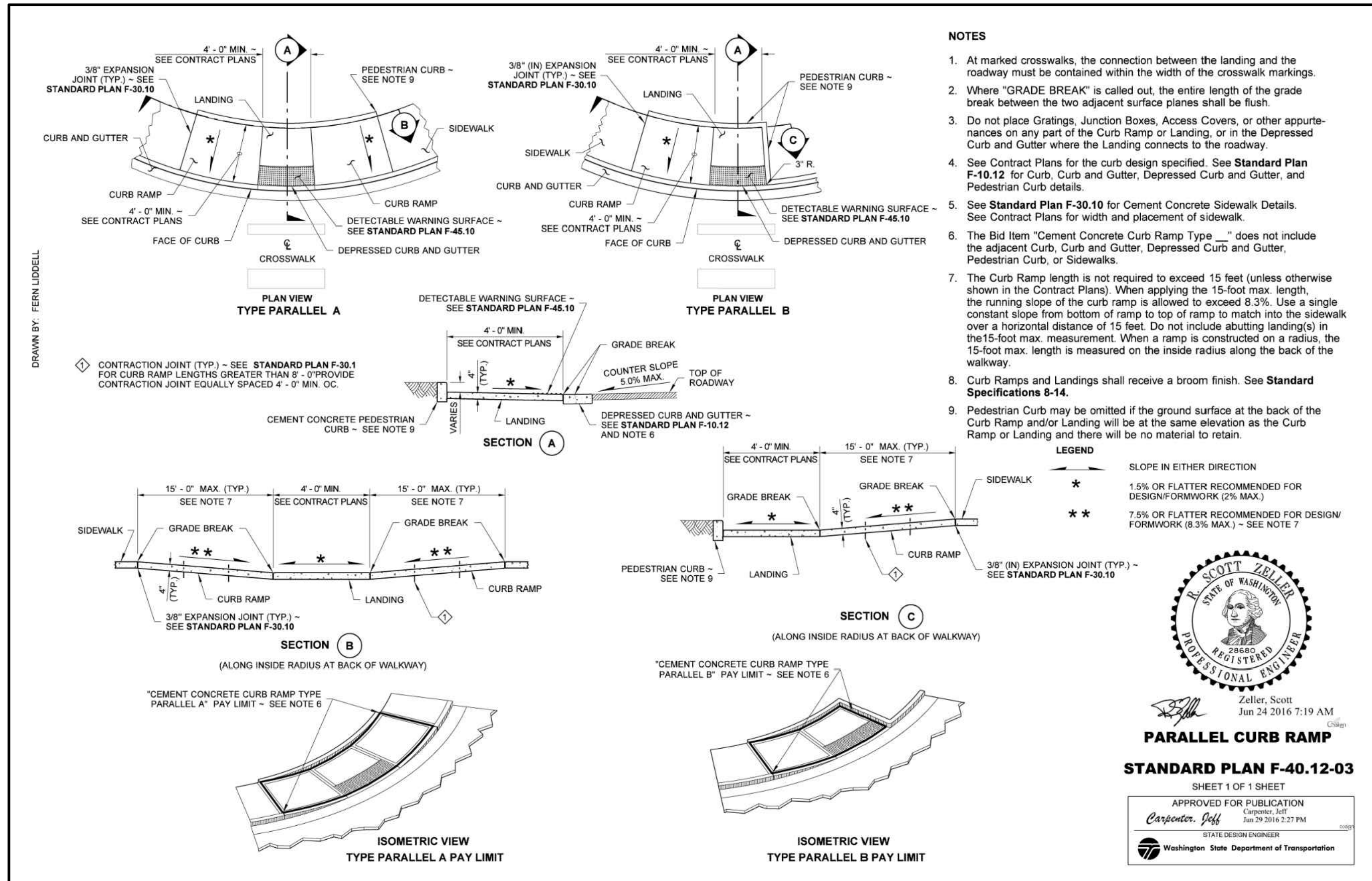


- GENERAL NOTES:
- EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
 - FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
 - SUBGRADE AND BASE REQUIREMENTS SHALL BE THE SAME AS FOR PAVEMENT RESTORATION.

<i>City of Chehalis</i>	
CEMENT CONCRETE CURB & GUTTER	
APPROVED BY	DWG. NO.
	2-7
	REVISED DATE
CITY ENGINEER	1/02/2003

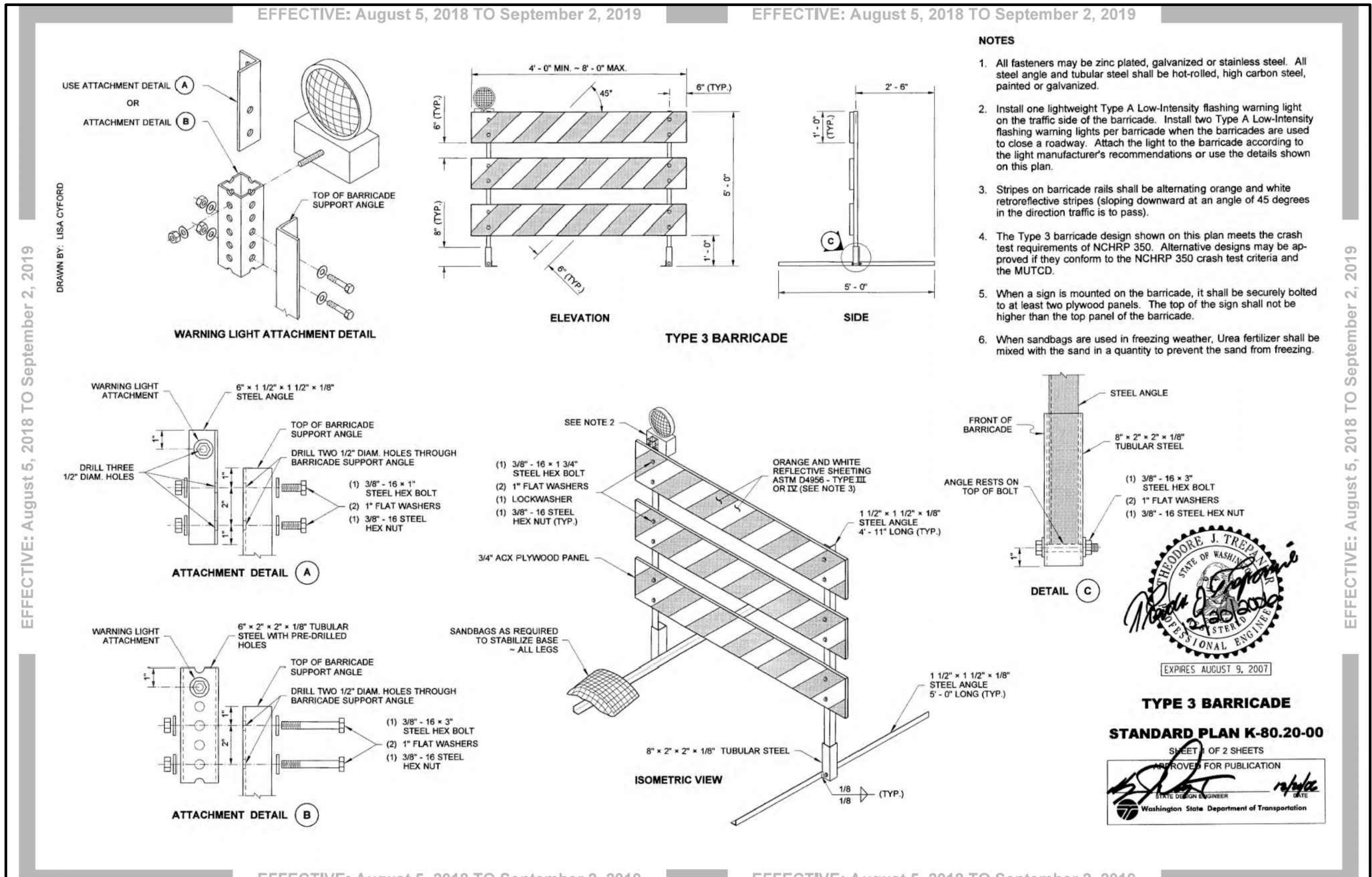
GENERAL NOTES (STREET CONSTRUCTION):

- ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS STANDARDS AND THE MOST RECENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH MUTCD. PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS MUST BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK WILL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL PLANS ARE IN PLACE.
- ALL CURB AND GUTTER, STREET GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT, WILL BE STAKED BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
- WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT WILL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE NEW ASPHALT WILL BE FEATHERED BACK OVER EXISTING TO PROVIDE FOR A SEAL AT THE SAW CUT LOCATION AND THE JOINT SEALED WITH GRADE AR-4000W PAVING ASPHALT.
- COMPACTION OF SUBGRADE, ROCK AND ASPHALT WILL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- FORM AND SUBGRADE INSPECTION BY THE PUBLIC WORKS DEPARTMENT IS REQUIRED BEFORE POURING CONCRETE. TWENTY-FOUR HOURS (ONE WORK DAY) ADVANCE NOTICE IS REQUIRED FOR FORM INSPECTION.
- TESTING AND SAMPLING FREQUENCIES ARE DESCRIBED IN THESE STANDARDS.
- THE PUBLIC WORKS DEPARTMENT WILL INSTALL OR OVERSEE THE INSTALLATION OF STREET NAME AND REGULATORY SIGNS AT THE CONTRACTOR'S AND/OR THE DEVELOPER'S EXPENSE. ALL STREET NAME AND REGULATORY SIGNS WILL BE REQUESTED AND APPROVED BY THE CITY PRIOR TO THE START OF CONSTRUCTION.



- 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 appurtenances 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 running 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.

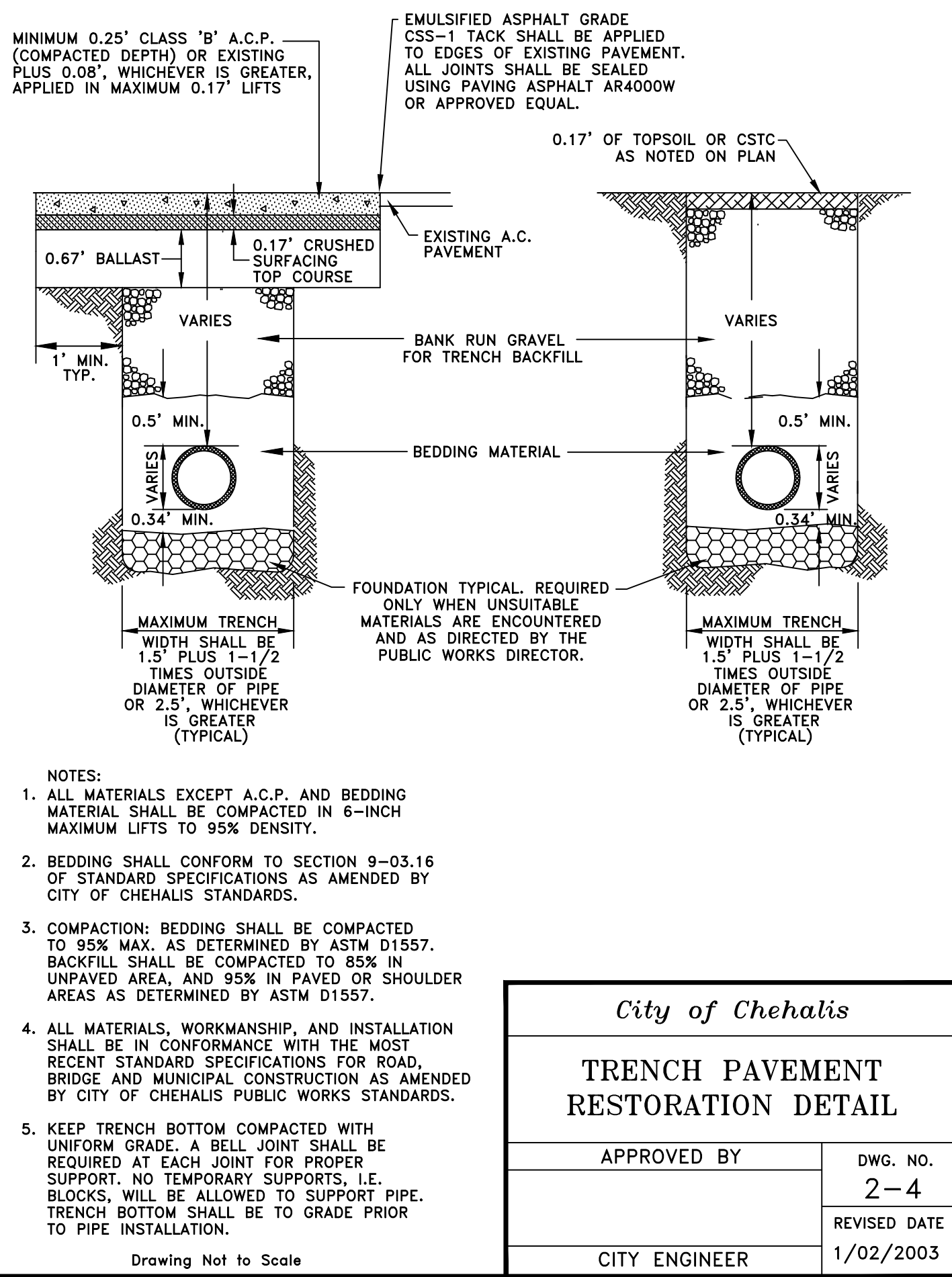
PARALLEL CURB RAMP
STANDARD PLAN F-40.12-03
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Washington State Department of Transportation



- NOTES:
- All fasteners may be zinc plated, galvanized or stainless steel. All steel angle and tubular steel shall be hot-rolled, high carbon steel, painted or galvanized.
 - Install one lightweight Type A Low-Intensity flashing warning light on the traffic side of the barricade. Install two Type A Low-Intensity flashing warning lights per barricade when the barricades are used to close a roadway. Attach the light to the barricade according to the light manufacturer's recommendations or use the details shown on this plan.
 - Stripes on barricade rails shall be alternating orange and white retroreflective stripes (sloping downward at an angle of 45 degrees in the direction traffic is to pass).
 - The Type 3 barricade design shown on this plan meets the crash test requirements of NCHRP 350. Alternative designs may be approved if they conform to the NCHRP 350 crash test criteria and the MUTCD.
 - When a sign is mounted on the barricade, it shall be securely bolted to at least two plywood panels. The top of the sign shall not be higher than the top panel of the barricade.
 - When sandbags are used in freezing weather, Urea fertilizer shall be mixed with the sand in a quantity to prevent the sand from freezing.

TYPE 3 BARRICADE
STANDARD PLAN K-80.20-00
SHEET 1 OF 2 SHEETS
APPROVED FOR PUBLICATION
Washington State Department of Transportation

NO.	DATE	DESIGNED BY: <u>RWB</u>	DRAWN BY: <u>ALE</u>	CHECKED BY: <u>RWB</u>	DATE: <u>08/29/2023</u>	SCALE: <u>N.T.S.</u>
HAMPE WAY ROAD AND UTILITY						
ROADWAY DETAILS AND NOTES						
RB Engineering DESIGN → PERMIT → MANAGE P.O. Box 923 CHEHALIS, WA 98532 OFF: (360) 740-8919 EMAIL: info@rbengineers.com						
JOB NUMBER: <u>19081</u> DRAWING NAME: <u>19081_2.10_RDDN</u> C2.10 14 OF 24						



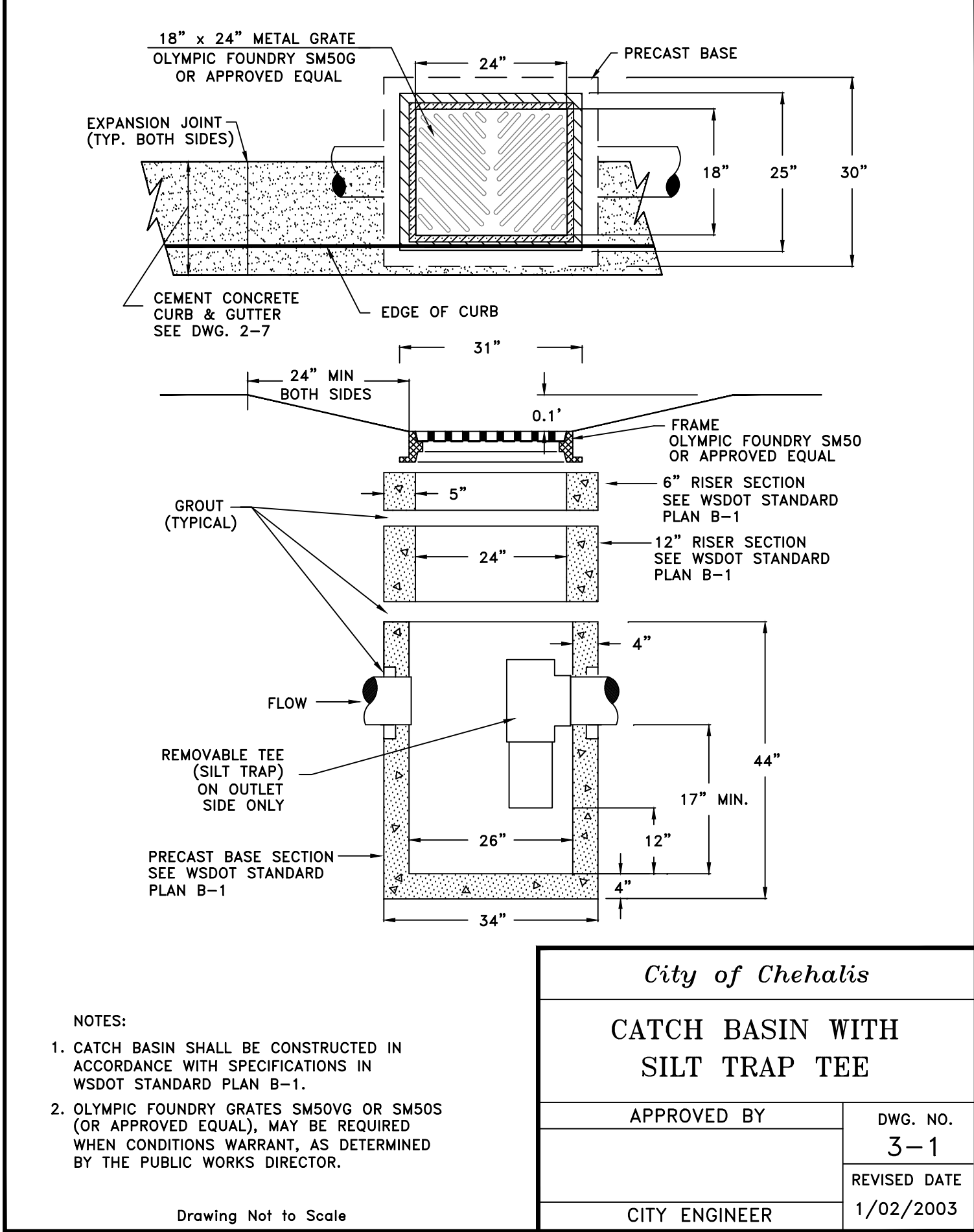
- NOTES:**
- ALL MATERIALS EXCEPT A.C.P. AND BEDDING MATERIAL SHALL BE COMPACTED IN 6-INCH MAXIMUM LIFTS TO 95% DENSITY.
 - BEDDING SHALL CONFORM TO SECTION 9-03.16 OF STANDARD SPECIFICATIONS AS AMENDED BY CITY OF CHEHALIS STANDARDS.
 - COMPACTION: BEDDING SHALL BE COMPACTED TO 95% MAX. AS DETERMINED BY ASTM D1557. BACKFILL SHALL BE COMPACTED TO 85% IN UNPAVED AREA, AND 95% IN PAVED OR SHOULDER AREAS AS DETERMINED BY ASTM D1557.
 - 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.
 - 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.
CITY ENGINEER	2-4
	REVISED DATE
	1/02/2003

Drawing Not to Scale



- NOTES:**
- CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS IN WSDOT STANDARD PLAN B-1.
 - OLYMPIC FOUNDRY GRATES SM50VG OR SM50S (OR APPROVED EQUAL), MAY BE REQUIRED WHEN CONDITIONS WARRANT, AS DETERMINED BY THE PUBLIC WORKS DIRECTOR.

City of Chehalis

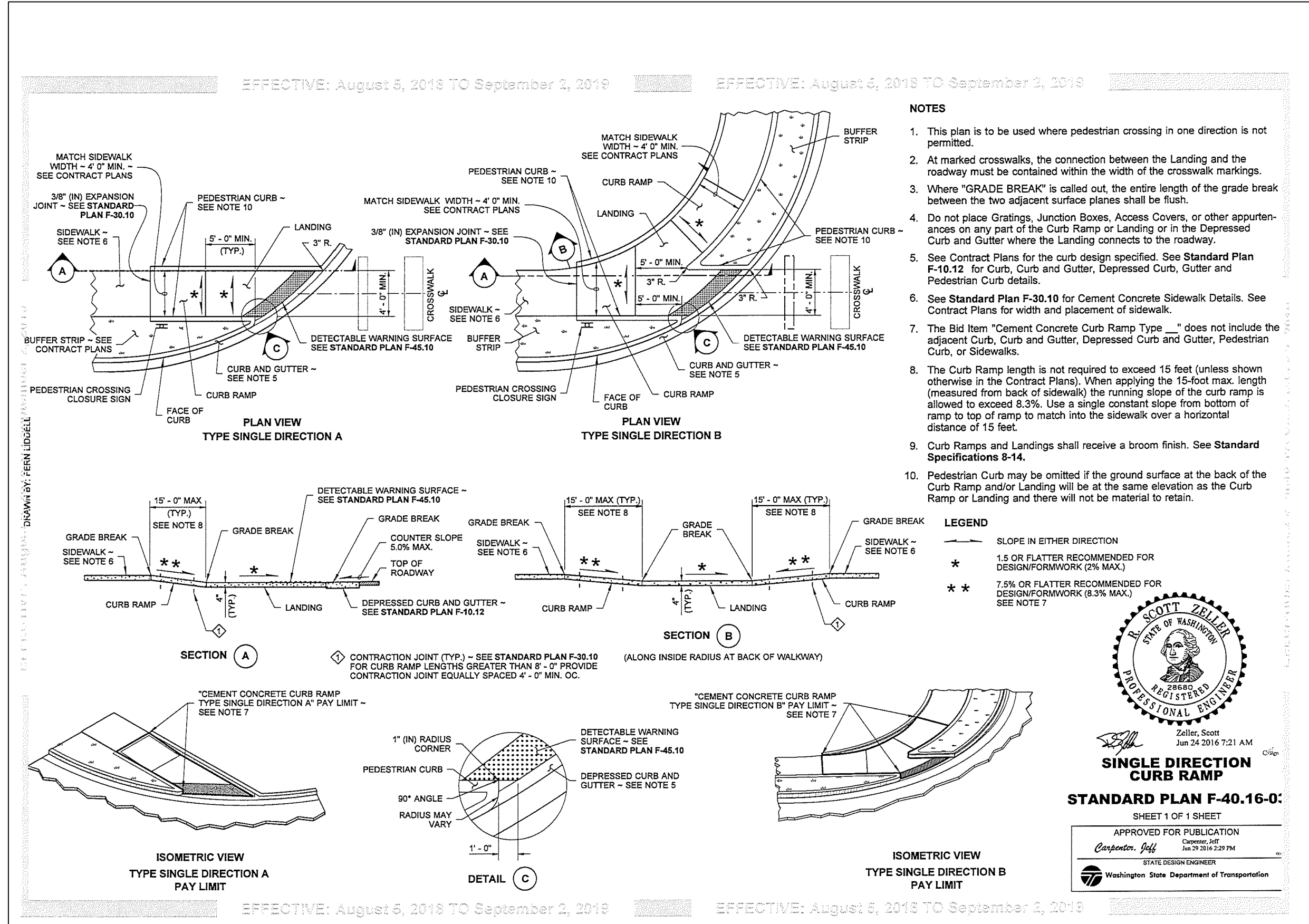
CATCH BASIN WITH SILT TRAP TEE

APPROVED BY	DWG. NO.
CITY ENGINEER	3-1
	REVISED DATE
	1/02/2003

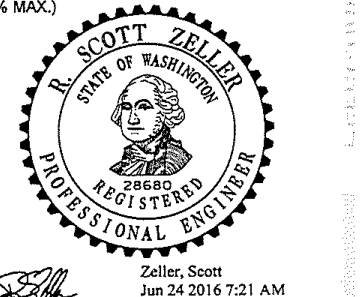
Drawing Not to Scale

GENERAL NOTES (STORM DRAIN CONSTRUCTION):

- ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF CHEHALIS PUBLIC WORKS STANDARDS AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- TEMPORARY EROSION/WATER POLLUTION MEASURES WILL BE REQUIRED IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN AND SECTION 1-07.15 OF THE STANDARD SPECIFICATIONS.
- COMPLY WITH ALL OTHER PERMITS AND REQUIREMENTS OF THE CITY OF CHEHALIS AND/OR OTHER GOVERNING AUTHORITIES OR AGENCIES.
- A PRE-CONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT PRIOR TO THE START OF CONSTRUCTION.
- ALL STORM MAINS AND RETENTION/DETENTION AREAS WILL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
- STORM DRAINPIPE WILL MEET THE FOLLOWING REQUIREMENTS:
 - PLAIN CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 86, CLASS 2.
 - REINFORCED CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 170.
 - PVC PIPE CONFORMING TO ASTM D 3034 SDR 35 OR ASTM F794 OR ASTM F679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM D 3212 AND ASTM F 477.
 - DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF ANWWA C 151, THICKNESS CLASS AS SHOWN ON THE PLANS.
 - HIGH-DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M252 TYPES OR AASHTO M294 TYPE S, WITH A GASKETED BELL AND SPIGOT JOINTS.
 - ALUMINIZED STEEL HELICAL OR SPIRAL RIB PIPE IN DIAMETERS OF THIRTY (30) INCHES OR GREATER, WITH A MANNING'S VALUE OF 0.020 OR LESS.
- SPECIAL STRUCTURES, OIL/WATER SEPARATORS AND OUTLET CONTROLS WILL BE INSTALLED PER PLANS AND MANUFACTURERS RECOMMENDATIONS.
- PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD TO THE PUBLIC WORKS DEPARTMENT. TRAFFIC CONTROL PLANS MUST BE APPROVED PRIOR TO THE START OF CONSTRUCTION.
- CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO (2) BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
- WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", THE CONTRACTOR WILL EXPOSE CONNECTION POINTS AND VERIFY NECESSARY FITTINGS TWO (2) BUSINESS DAYS PRIOR TO INITIATING THE WORK.
- ALL STORM LINES AND CATCHBASINS WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISION 7 OF THE STANDARD SPECIFICATIONS PRIOR TO PAVING. HYDRANT FLUSHING OF THE LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION AT THE CONTRACTOR'S EXPENSE. THE DIRECTOR OF PUBLIC WORKS WILL DETERMINE WHETHER THE INSPECTION WILL BE PERFORMED BY THE CITY OR BY A REPRESENTATIVE OF THE CONTRACTOR UNDER THE CITY'S DIRECTION. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.
- FILL PLACEMENT WILL NOT BE ALLOWED IN ANY OPEN CHANNEL USED FOR STORM CONVEYANCE WITHOUT WRITTEN APPROVAL FROM THE PUBLIC WORKS DIRECTOR.



- NOTES:**
- This plan is to be used where pedestrian crossing in one direction is not permitted.
 - 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 appurtenances 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.
 - The Bid Item "Cement Concrete Curb Ramp Type ___" does not include the adjacent Curb, Curb and Gutter, Depressed Curb and Gutter, Pedestrian Curb, or Sidewalk.
 - The Curb Ramp length is not required to exceed 15 feet (unless shown otherwise in the Contract Plans). When applying the 15-foot max. length (measured from back of sidewalk) the running 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.
 - 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 not be material to retain.

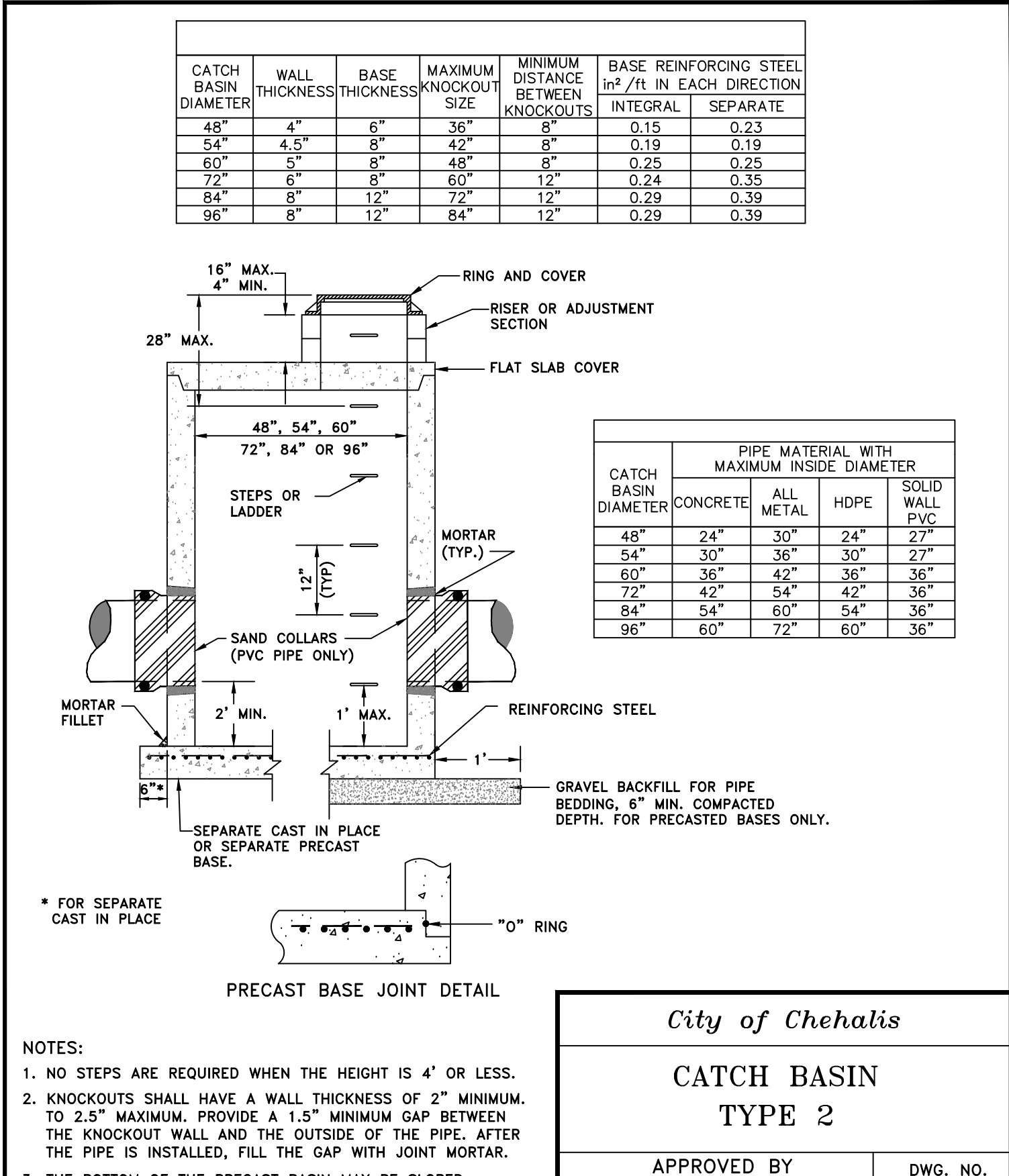


City of Chehalis

STANDARD PLAN F-40.16-0: SINGLE DIRECTION CURB RAMP

APPROVED BY	DWG. NO.
CITY ENGINEER	3-9
	REVISED DATE
	4/14/2005

Drawing Not to Scale



- NOTES:**
- NO STEPS ARE REQUIRED WHEN THE HEIGHT IS 4' OR LESS.
 - KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM. TO 2.5" MAXIMUM. PROVIDE A 1.5" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED, FILL THE GAP WITH JOINT MORTAR.
 - THE BOTTOM OF THE PRECAST BASIN MAY BE SLOPED TO FACILITATE CLEANING.
 - FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.

City of Chehalis

CATCH BASIN TYPE 2

APPROVED BY	DWG. NO.
CITY ENGINEER	3-9
	REVISED DATE
	4/14/2005

Drawing Not to Scale

NO.	DATE	DESIGNED BY: RWB	DRAWN BY: ALE	CHECKED BY: RWB	DATE: 08/29/2023	SCALE: N.T.S.	REVISION

HAMPE WAY ROAD AND UTILITY

WA.

CHEHALIS

DRAINAGE DETAILS AND NOTES

RB Engineering
DESIGN → PERMIT → MANAGE

OFF: (360) 740-8819
EMAIL: CarlProbst@rbengineers.com

P.O. Box 923
CHEHALIS, WA 98532

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JOB NUMBER	19081
DRAWING NAME	19081_C2.11_DRDN
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