

PROJECT INFORMATION:

OWNER: CITY OF CHEHALIS
 SITE ADDRESS: N/A
 PARCEL NUMBER: N/A
 COORDINATES: 46.660792, -122.954703
 ZONING (CITY): CG - GENERAL COMMERCIAL
 LOTS: N/A
 ACRES: N/A
 SITE SOILS: MELBOURNE LOAM, 15 TO 30 % SLOPES
 WATER: CITY OF CHEHALIS
 SANITARY SEWER: CITY OF CHEHALIS
 GRADING: 2± CY CUT
 0± CY FILL
 PARKING STALLS: N/A

SURVEY INFORMATION:

BASIS OF BEARING
 HOLDING SURVEY CONTROL BEARINGS PER RECORD OF SURVEY RECORDED UNDER LEWIS COUNTY RECORDING NO. 3292156 VOLUME 25 OF SURVEYS AT PAGE 287

BASIS OF ELEVATION
 NAVD 88

GEOTECHNICAL INFORMATION:

A GEOTECHNICAL REPORT WAS PREPARED FOR THIS PROJECT BY QUALITY GEO NW, PLLC. CONSTRUCTION SHALL COMPLY WITH THIS REPORT.

TOPOGRAPHIC INFORMATION:

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS PROVIDED BY FORESIGHT SURVEYING INC. TOPOGRAPHIC INFORMATION WAS NOT FIELD VERIFIED BY FULLER DESIGNS.

LEGEND

LINETYPES	EXISTING	PROPOSED	DESC.
	---	---	BUILDING FOOTPRINT
	---	---	BUILDING SETBACK
	XX	XX	CLEARING AND GRUBBING
	XX	XX	CONTOUR LINE (MAJOR)
	XX	XX	CONTOUR LINE (MINOR)
	---	---	CULVERT
	---	---	DITCH
	---	---	EASEMENT
	---	---	EDGE OF PAVEMENT
	---	---	EDGE OF GRAVEL
	X	X	FENCE
	FO	FO	FIBER OPTIC
	FM	FM	FORCE MAIN
	G	G	GAS MAIN
	GB	GB	GRADE BREAK
	---	---	LANDSCAPE
	---	---	LOT LINE
	---	---	PROJECT BOUNDARY
	---	---	RIGHT-OF-WAY
	---	---	ROAD CENTERLINE
	---	---	ROAD CUT LINE
	SS	SS	SANITARY SEWER PIPE
	ST	ST	STORM PIPE
	---	---	SIDEWALK
	SF	SF	SILT FENCE
	UE	UE	UNDERGROUND ELECTRIC
	OE	OE	OVERHEAD ELECTRIC
	OT	OT	TELECOMMUNICATION
	W	W	WATER
	---	---	STREAM
	---	---	ENHANCED BUFFER BOUNDARY LINE

HATCH	EXISTING	PROPOSED	DESC.
	[Pattern]	[Pattern]	AC PAVEMENT
	[Pattern]	[Pattern]	GRAVEL
	[Pattern]	[Pattern]	CONCRETE
	[Pattern]	[Pattern]	LANDSCAPE / GRASS AREA

ABBREVIATIONS:

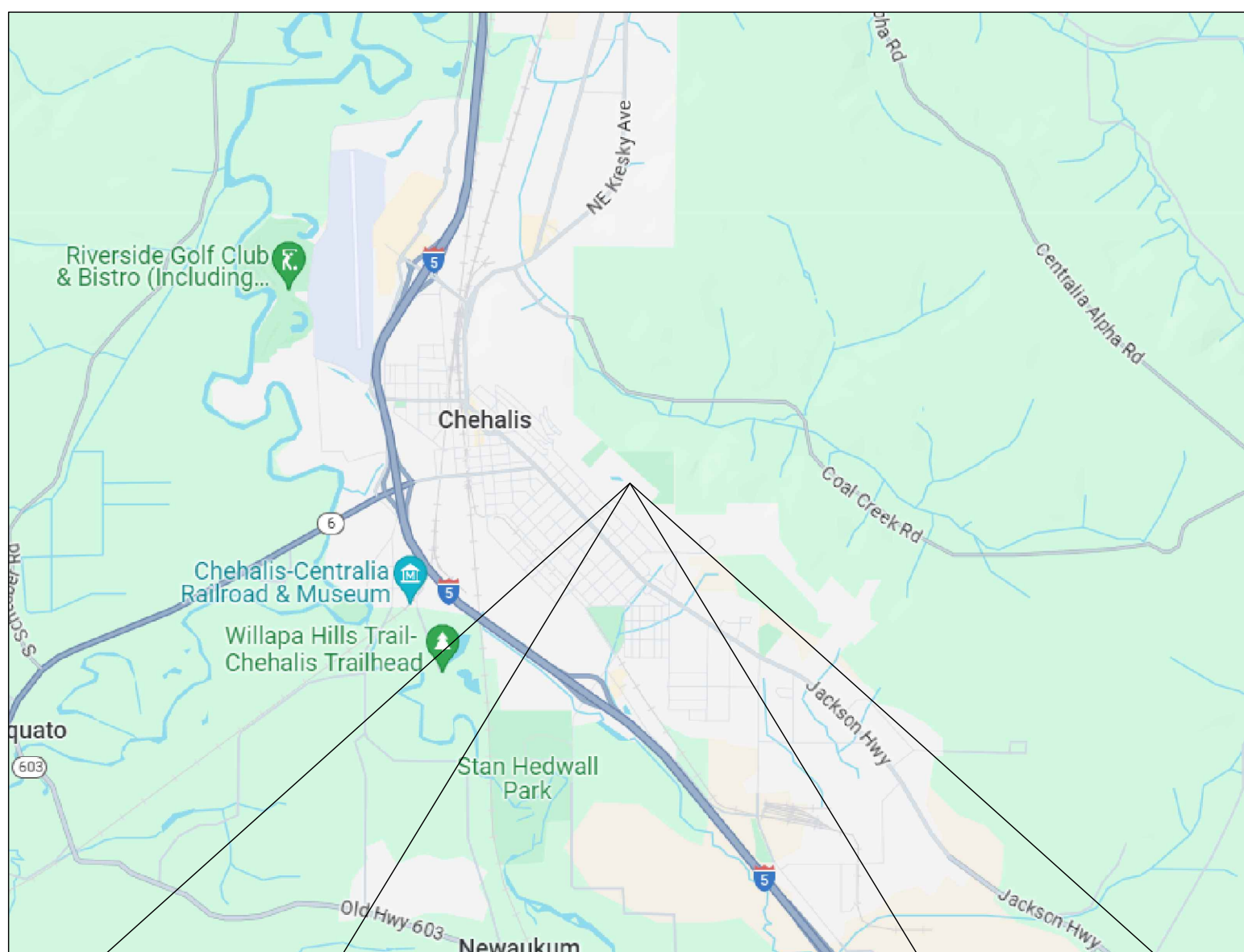
AC	ASPHALT CONCRETE
BCR	BEGIN CURB RETURN
BM	BENCHMARK
BVCS	BEGIN VERTICAL CURVE STATION
BCVE	BEGIN VERTICAL CURVE ELEVATION
BLDG	BUILDING
CATV	CABLE TELEVISION
CB	CATCH BASIN
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CY	CUBIC YARD
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCVA	DOUBLE CHECK VALVE ASSEMBLY
°	DEGREES
Ø	DIAMETER
EE	ELECTRICAL
ECR	END CURB RETURN
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EVCS	END VERTICAL CURVE STATION
EVCE	END VERTICAL CURVE ELEVATION
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
G	GAS
GB	GRADE BREAK
GM	GAS METER
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
IE	INVERT ELEVATION
K	CALCULATED CURVE VALUE
L	LENGTH
LCV	LENGTH VERTICAL CURVE
LF	LINEAR FEET
LT	LEFT
M	METER
MH	MAN HOLE
MJ	MECHANICAL JOINT
NAP	NOT A PART OF PROJECT
NFC	NOT FOR CONSTRUCTION
OHP	OVER HEAD POWER
P	POWER
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PIV	POSITION INDICATOR VALVE
PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CONNECTION
POE	POINT OF ENDING
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
PVC	POLY-VINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RFC	RELEASED FOR CONSTRUCTION
ROW	RIGHT OF WAY
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
RT	RIGHT
S	SLOPE
SF	SQUARE FOOT
SD	STORM DRAIN
SS	SANITARY SEWER
ST	STORM
STA	STATION
SW	SIDEWALK
T	TELEPHONE
TB	TRUST BLOCK
TC	TOP OF CURB/CONCRETE
TESC	TEMPORARY EROSION AND SEDIMENT CONTROL
TG	TOP OF GRATE
TYP	TYPICAL
UGP	UNDERGROUND POWER
W	WATER
WM	WATER METER
WV	WATER VALVE
±	APPROXIMATELY
%	PERCENT
Δ	DELTA

SYMBOLS	EXISTING	PROPOSED	DESC.
[Symbol]	[Symbol]	[Symbol]	CATCH BASIN
[Symbol]	[Symbol]	[Symbol]	FIRE HYDRANT
[Symbol]	[Symbol]	[Symbol]	GAS VALVE
[Symbol]	[Symbol]	[Symbol]	ILLUMINARE & POLE
[Symbol]	[Symbol]	[Symbol]	JUNCTION BOX
[Symbol]	[Symbol]	[Symbol]	MAIL BOX
[Symbol]	[Symbol]	[Symbol]	POWER TRANSFORMER
[Symbol]	[Symbol]	[Symbol]	SANITARY SEWER MANHOLE
[Symbol]	[Symbol]	[Symbol]	STORM MANHOLE
[Symbol]	[Symbol]	[Symbol]	STREET SIGN
[Symbol]	[Symbol]	[Symbol]	SPOT ELEVATION
[Symbol]	[Symbol]	[Symbol]	SURFACE FLOW
[Symbol]	[Symbol]	[Symbol]	TELECOMMUNICATION PEDESTAL
[Symbol]	[Symbol]	[Symbol]	TREE
[Symbol]	[Symbol]	[Symbol]	UTILITY POLE
[Symbol]	[Symbol]	[Symbol]	WATER METER
[Symbol]	[Symbol]	[Symbol]	WATER VALVE

HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)

SECTION 32 TOWNSHIP 14N RANGE 02W
 CITY OF CHEHALIS
 WASHINGTON

VICINITY MAP 



DRAWING CONTENTS:

- C0.1 - CIVIL COVER
- C1.1 - OVERALL SITE & TESC PLAN
- C1.2 - TESC NOTES & DETAILS
- C2.1 - OVERALL GRADING & DRAINAGE PLAN
- C2.2 - STORM SYSTEM PLAN & PROFILE
- C2.3 - STORM SYSTEM PLAN & PROFILE
- C2.4 - STORM SYSTEM DETAILS
- C3.1 - HILLTOP ROADWAY IMPROVEMENTS

APPROVED FOR CONSTRUCTION

BY _____ DATE _____

CITY ENGINEER

APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE



PROJECT SPECIFICATIONS:

THE WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2024 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) (HEREAFTER "STANDARD SPECIFICATIONS").

ALSO INCORPORATED INTO THESE CONTRACT DOCUMENTS BY REFERENCE ARE:

- A. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- B. CITY ROAD STANDARDS
- C. CITY DRAINAGE STANDARDS
- D. THE INTERNATIONAL BUILDING CODE (IBC)

CURRENT EDITIONS OF THESE STANDARDS SHALL BE USED WHICH EXIST ON THE DATE OF CONTRACT ACCEPTANCE.

CONTRACTOR SHALL OBTAIN COPIES OF THESE PUBLICATION AT CONTRACTOR'S OWN EXPENSE.

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, SUPPLIES AND INCIDENTALS REQUIRED TO COMPLETE ALL WORK SHOWN ON THESE DRAWINGS. ONCE WORK IS COMPLETED CONTRACTOR SHALL OBTAIN ACCEPTANCE BY THE CITY AND PROJECT ENGINEER.

THE INTENT OF THESE DRAWINGS IS TO PRESCRIBE A COMPLETE PROJECT. OMISSIONS FROM THE DRAWINGS OF DETAIL OF WORK WHICH IS NECESSARY TO CARRY OUT THE INTENT OF THE DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING THE OMITTED WORK.

ANY PROPOSED ALTERATIONS BY THE CONTRACTOR AFFECTING THE REQUIREMENTS AND INFORMATION IN THESE DRAWINGS SHALL BE IN WRITING AND WILL REQUIRE APPROVAL OF THE ENGINEER AND INSPECTOR.

WORK IN RIGHT OF WAY:
 CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT PRIOR TO COMMENCING ANY WORK LOCATED IN RIGHT OF WAY. ALL WORK PERFORMED IN THE RIGHT OF WAY SHALL ADHERE TO DRAWINGS, STANDARD SPECIFICATIONS, AND REQUIREMENTS OUTLINED IN THE RIGHT OF WAY PERMIT.

RECORD DRAWINGS:
 FULLER DESIGNS IS REQUIRED BY THE CITY TO PROVIDE RECORD DRAWING CERTIFICATION PRIOR TO FINAL CITY ACCEPTANCE. FULLER DESIGNS WILL NOT CERTIFY RECORD DRAWINGS WITHOUT INSPECTION OF BELOW GRADE UTILITIES AND STRUCTURES. PRIOR TO BACKFILLING, CONTRACTOR SHALL NOTIFY FULLER DESIGNS OF NECESSARY INSPECTIONS.

CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD AND NOTIFY ENGINEER OR INSPECTOR OF INCONSISTENCIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN ONE SET OF THE CONTRACT DRAWINGS THAT SHALL INCLUDE: ANY ALTERATIONS OR LOCATION OF UNDERGROUND UTILITIES ENCOUNTERED DURING THE PROGRESS OF THE PROJECT, ANY ALTERATIONS MADE TO THE IMPROVEMENTS BEING INSTALLED. MARKED DRAWINGS SHALL BE CLEAR AND LEGIBLE. DRAWINGS SHALL BE MARKED "RECORD DRAWINGS" AND SHALL BE SUBMITTED TO THE ENGINEER UPON PROJECT COMPLETION.

CONTRACTOR LIABILITY NOTE:
 CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY THROUGHOUT PROJECT EXECUTION AND NOT BE LIMITED TO WORKING HOURS. CONTRACTOR SHALL PROGRESS WORK IN A MANNER THAT SHALL INDEMNIFY AND HOLD FULLER DESIGNS HARMLESS FROM ALL LIABILITY IN CONNECTION WITH CONTRACTOR'S PERFORMED WORK.

REMOVAL OF UNSUITABLE MATERIALS:
 IF UNSUITABLE MATERIALS AS DEFINED BY THE STANDARD SPECIFICATIONS ARE ENCOUNTERED, THIS MATERIAL SHALL BE REMOVED TO THE DEPTH REQUIRED BY THE ENGINEER OR INSPECTOR AND REPLACED WITH SUITABLE MATERIAL.

PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY A SITE TO DISPOSE OF UNSUITABLE MATERIALS. IF UNSUITABLE MATERIAL IS IDENTIFIED ON SITE THE CONTRACTOR SHALL PROVIDE CALCULATION OF UNSUITABLE MATERIAL AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO REMOVAL. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE MATERIAL LEGALLY OFF SITE.

GENERAL NOTES:
 CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ADJACENT PROPERTY OWNERS. DRIVEWAYS AND UTILITY SERVICES SHALL REMAIN ACCESSIBLE AT ALL TIMES.

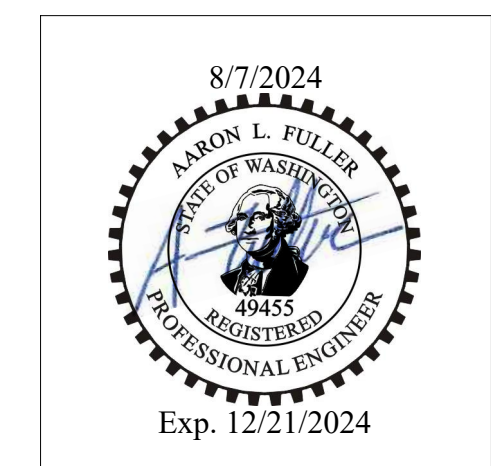
AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL PRE-CONSTRUCTION STATE OR BETTER UPON COMPLETION OF WORK.

ANY DESIGN CHANGE(S) MADE TO THE PLANS BY OUTSIDE PARTIES (INCLUDING JURISDICTIONS, CITIES AND COUNTIES), WILL BE HELD RESPONSIBLE FOR ANY LIABILITIES THAT MAY OCCUR DUE TO CHANGE(S).

UTILITIES LOCATE NOTE:

EXISTING UTILITIES LOCATION SHOWN IN THIS PLAN SET IS BASED ON INFORMATION OBTAINED FROM VARIOUS RECORDS, RESEARCH, ASBUILT DATA, AND FIELD MEASUREMENTS. FULLER DESIGNS ASSUMES NO RESPONSIBILITY FOR EXACT LOCATION OF UTILITIES EITHER SHOWN OR NOT SHOWN IN THESE DRAWINGS. CONTRACTOR SHALL VERIFY THE EXACT SIZE, DEPTH, LOCATION, AND ARRANGEMENT OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CALL UNDERGROUND LOCATE AT 811 PRIOR TO PERFORMING CONSTRUCTIONS ACTIVITIES.

DRAWING TITLE:	CIVIL COVER	CHECKED: AF
	DATE: 8/5/24	DRAWN: SD
	SCALE: N/A	PROJECT NAME: HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)



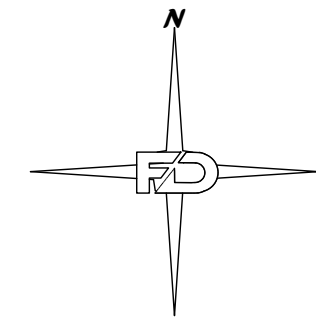
FULLER DESIGNS
 1111 KRESKY AVE, SUITE 100
 CENTRALIA, WA 98531
 (360) 807-4420

REV.	DESCRIPTION:	DATE:
0	ISSUED FOR CONSTRUCTION	8/5/24

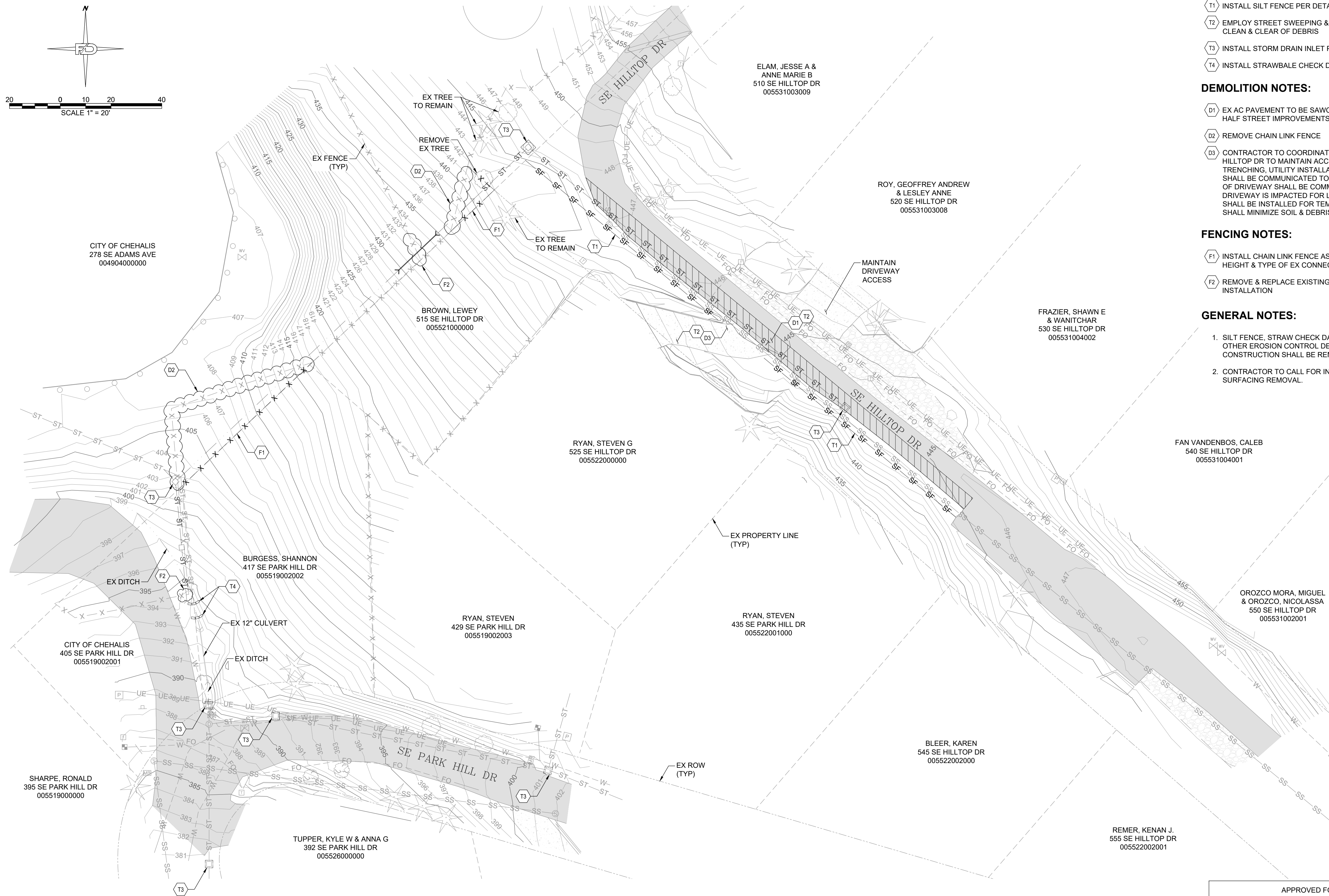
C0.1

1 OF 8

SECTION 32 TOWNSHIP 14N RANGE 02W



SCALE 1" = 20'



TESC PLAN NOTES:

- T1 INSTALL SILT FENCE PER DETAIL 3-4, SHEET C1.2
- T2 EMPLOY STREET SWEEPING & WHEEL WASHING TO KEEP ROADWAY CLEAN & CLEAR OF DEBRIS
- T3 INSTALL STORM DRAIN INLET PROTECTION PER DETAIL T1, SHEET C1.2
- T4 INSTALL STRAWBALE CHECK DAMS PER DETAIL 3-6, SHEET C1.2

DEMOLITION NOTES:

- D1 EX AC PAVEMENT TO BE SAWCUT & REMOVED IN PREPARATION FOR HALF STREET IMPROVEMENTS, SEE SHEET C3.1
- D2 REMOVE CHAIN LINK FENCE
- D3 CONTRACTOR TO COORDINATE WITH PROPERTY OWNER OF 524 SE HILLTOP DR TO MAINTAIN ACCESS. TIMING OF ASPHALT REMOVAL, TRENCHING, UTILITY INSTALLATION & ROADWAY RESTORATION SHALL BE COMMUNICATED TO PROPERTY OWNER. ANY CLOSURES OF DRIVEWAY SHALL BE COMMUNICATED & KEPT TO A MINIMUM. IF DRIVEWAY IS IMPACTED FOR LONGER THAN 4 HOURS, STEEL PLATING SHALL BE INSTALLED FOR TEMPORARY ACCESS. CONTRACTOR SHALL MINIMIZE SOIL & DEBRIS FROM ENTERING DRIVEWAY AREA.

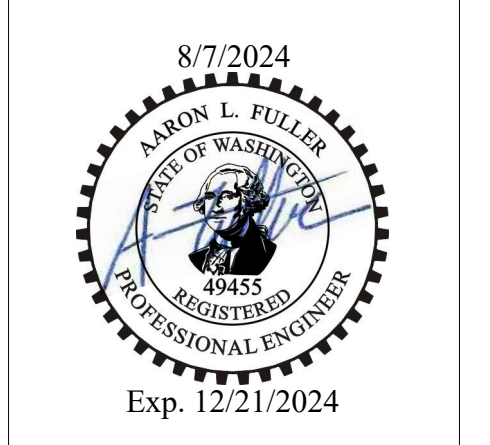
FENCING NOTES:

- F1 INSTALL CHAIN LINK FENCE AS SHOWN. FENCE SHALL MATCH HEIGHT & TYPE OF EX CONNECTING FENCE
- F2 REMOVE & REPLACE EXISTING FENCE TO FACILITATE CULVERT INSTALLATION

GENERAL NOTES:

1. SILT FENCE, STRAW CHECK DAMS, INLET PROTECTION & OTHER EROSION CONTROL DEVICES EMPLOYED DURING CONSTRUCTION SHALL BE REMOVED ONCE SITE IS STABILIZED.
2. CONTRACTOR TO CALL FOR INSPECTION OF SUBGRADE AFTER SURFACING REMOVAL.

DRAWING TITLE:		OVERALL SITE & TESC PLAN	
SCALE:	1:20	CHECKED:	AF
DATE:	8/5/24	DRAWN:	SD
PROJECT NAME:		HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)	



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REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	8/5/24

APPROVED FOR CONSTRUCTION

BY _____ DATE _____

CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

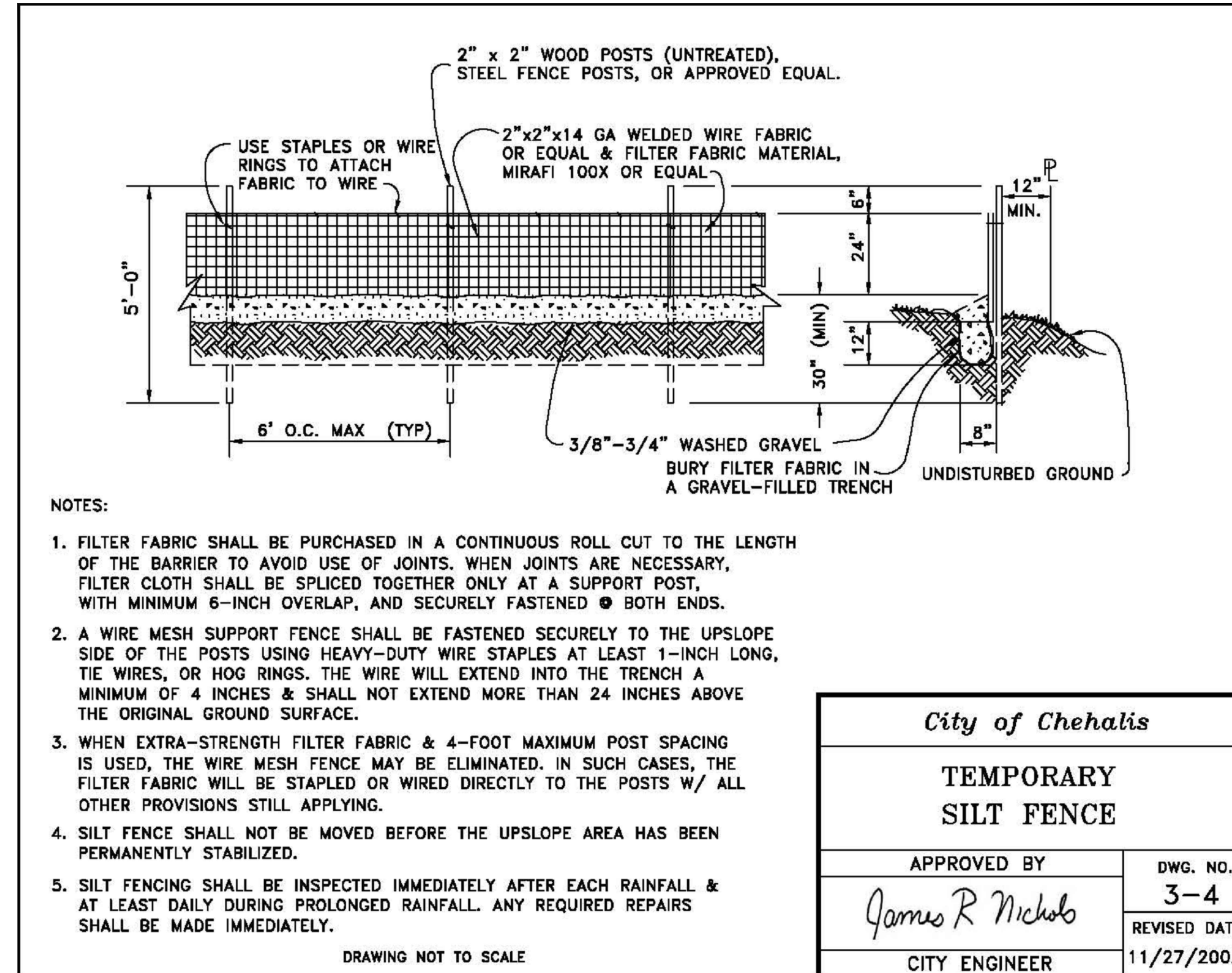
C1.1

2 OF 8

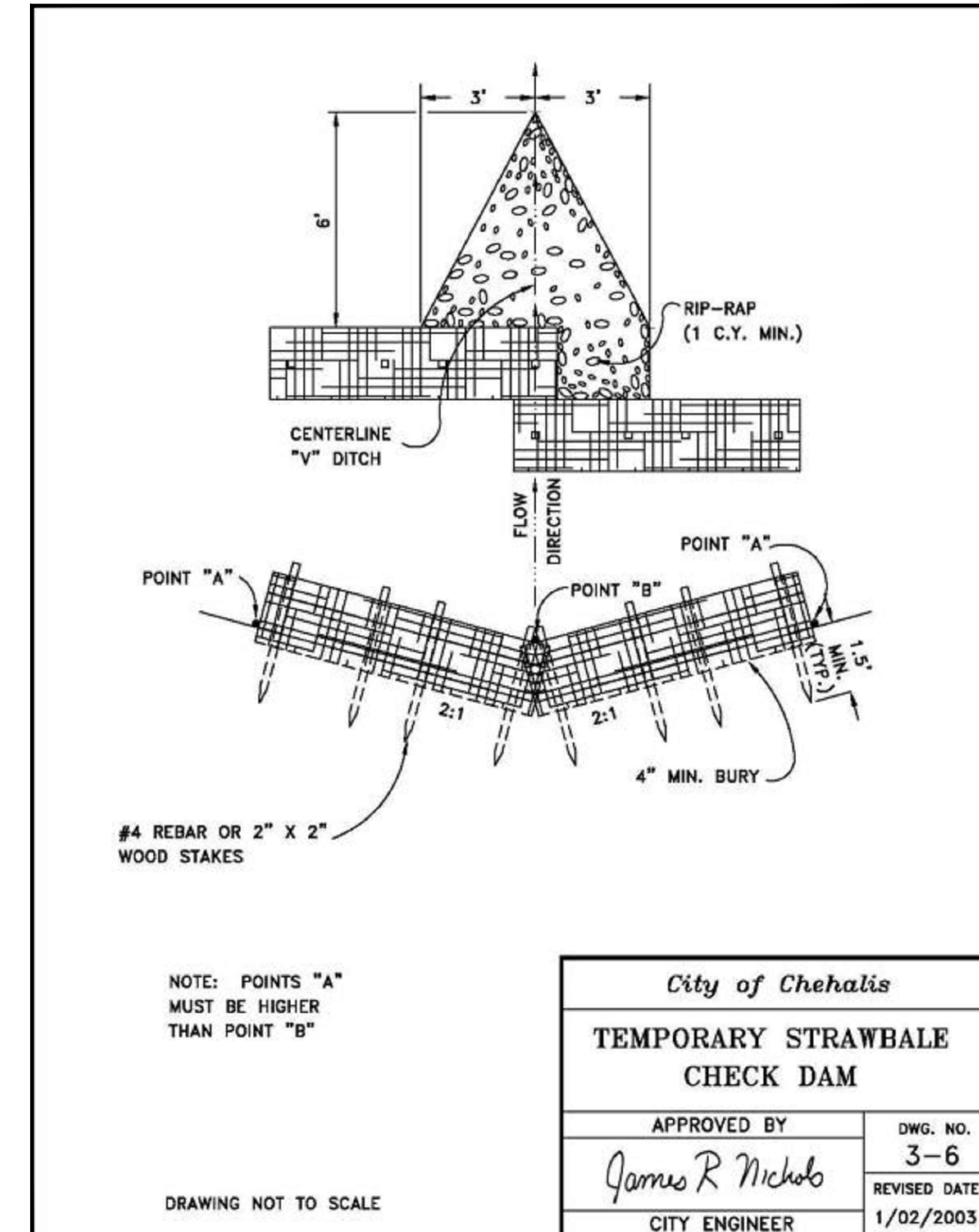
SECTION 32 TOWNSHIP 14N RANGE 02W

**EROSION CONTROL
GENERAL NOTES**

1. EROSION CONTROL MEASURES WILL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. A REPRESENTATIVE FROM THE CITY WILL INSPECT AND APPROVE THE EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION.
2. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THIS PLAN. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION MEASURES, AS REQUIRED UNDER THE MOST RECENT VERSION OF THE CHEHALIS STORM WATER MANAGEMENT PLAN. CARE WILL BE TAKEN TO PREVENT MIGRATION OF SILT AND/OR POLLUTED RUNOFF TO OFF-SITE PROPERTIES.
3. THE CONTRACTOR WILL MAKE REGULAR SURVEILLANCE OF ALL EROSION CONTROL MEASURES. IN ADDITION, EROSION CONTROL WILL BE THOROUGHLY INSPECTED AFTER EACH RAINFALL EVENT. THE CONTRACTOR WILL MAKE ALL NECESSARY REPAIRS, MODIFICATIONS, AND ADDITIONS AS NECESSARY TO ENSURE THE PROPER OPERATION OF THE EROSION CONTROL MEASURES. THE CITY MAY REQUIRE MORE FREQUENT INSPECTIONS OF EROSION CONTROL MEASURES BY THE CONTRACTOR SHOULD SITE OR WEATHER CONDITIONS DICTATE.
4. DURING THE WET SEASON, NOVEMBER THROUGH MARCH, ALL DISTURBED SOILS WILL BE STABILIZED WITHIN 48 HOURS AFTER LAND DISTURBANCE ACTIVITIES HAVE CEASED. EROSION CONTROL MEASURES WILL INCLUDE, BUT ARE NOT LIMITED TO, INSTALLATION OF STRAW MATTING, JUTE MATTING, STRAW MULCH AND/OR WOOD CHIPS, AND COVERING THE AFFECTED AREA AND SPOIL PILES WITH PLASTIC SHEETING.
5. THE CONTRACTOR WILL CHECK ALL SEEDED OR SODDED AREAS REGULARLY TO ENSURE THAT THE VEGETATIVE COVER IS BEING ADEQUATELY ESTABLISHED. AREAS WILL BE REPAIRED, RESEED, AND FERTILIZED AS REQUIRED.
6. TRACKING OF SOIL OFF SITE WILL NOT BE ALLOWED. IF ANY SOIL IS TRACKED BEYOND THE LIMITS OF THE SITE, IT WILL BE REMOVED BEFORE THE END OF THAT WORKING DAY. TO PREVENT ADDITIONAL TRACKING, VEHICLE TIRES MUST BE SWEEPED OR WASHED PRIOR TO LEAVING THE PROJECT SITE.
7. NO MORE THAN 500 LINEAL FEET (LF) OF TRENCH ON A DOWNSLOPE OF MORE THAN FIVE PERCENT WILL BE OPENED AT ONE TIME.
8. EXCAVATED MATERIAL WILL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
9. EXCAVATED MATERIAL WILL NOT BE PLACED IN ESTABLISHED DRAINAGE DITCHES UNDER ANY CIRCUMSTANCES.
10. TRENCH DE-WATERING DEVICES WILL BE DISCHARGED IN A MANNER THAT WILL NOT ADVERSELY AFFECT FLOWING STREAMS, DRAINAGE SYSTEMS, OR OFF-SITE PROPERTIES. AN ESTABLISHED SEDIMENT TRAP WILL BE USED AS THE RECEIVER FOR ALL TRENCH DE-WATERING OPERATIONS.
11. ALL DISTURBED AREAS WILL BE SEEDED OR SODDED UPON COMPLETION OF WORK. THE CONTRACTOR WILL BE RESPONSIBLE TO ENSURE THAT COMPLETE COVERAGE OF THE DISTURBED AREAS IS PROVIDED AND THE GROWTH OF VEGETATION IS ESTABLISHED. SEED AND SOD APPLICATIONS WILL BE CONDUCTED IN ACCORDANCE WITH THE TIMELINES NOTED IN THE MOST RECENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS.
12. ALL EROSION CONTROL WILL REMAIN IN PLACE UNTIL SUCH TIME AS THE SITE IS ADEQUATELY STABILIZED. PRIOR TO REMOVAL OF EROSION CONTROL MEASURES, THE ENGINEERING.

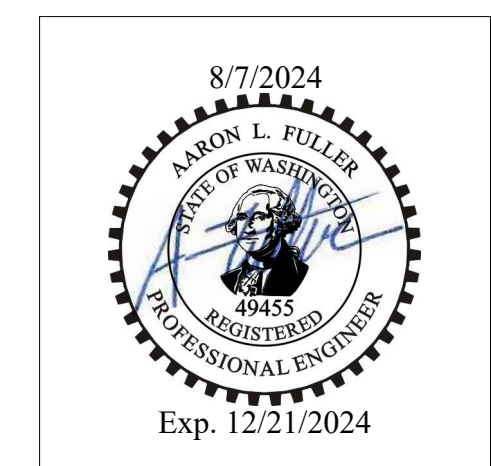


<i>City of Chehalis</i>	
TEMPORARY SILT FENCE	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	3-4
CITY ENGINEER	REVISED DATE
	11/27/2002

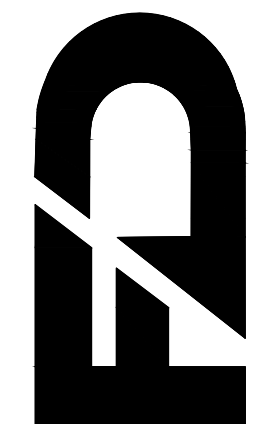


<i>City of Chehalis</i>	
TEMPORARY STRAWBALE CHECK DAM	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	3-6
CITY ENGINEER	REVISED DATE
	1/02/2003

DRAWING TITLE: TESC NOTES & DETAILS			
DATE:	DRAWN:	CHECKED:	PROJECT NAME:
8/5/24	SD	AF	HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)
SCALE:	N/A		



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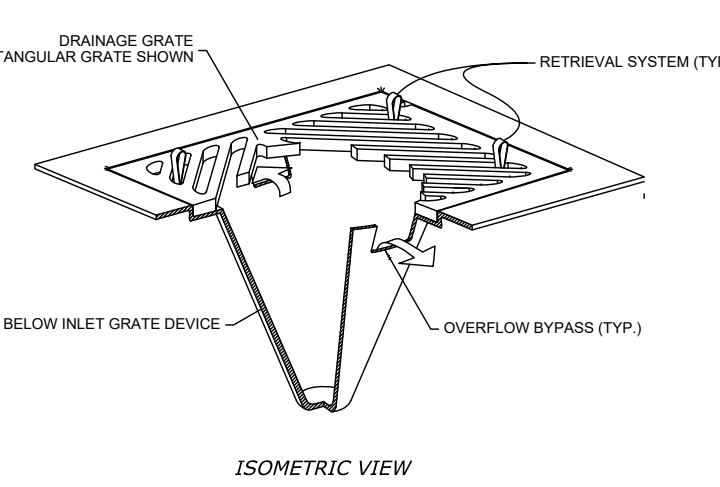
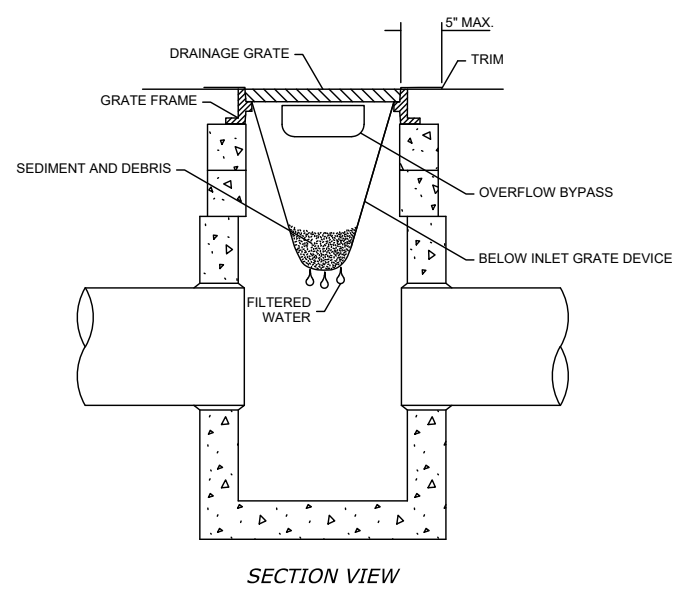
REV:	DESCRIPTION:	DATE:
0	ISSUED FOR CONSTRUCTION	8/5/24

APPROVED FOR CONSTRUCTION

BY _____ DATE _____
CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

C1.2
3 OF 8

- 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).



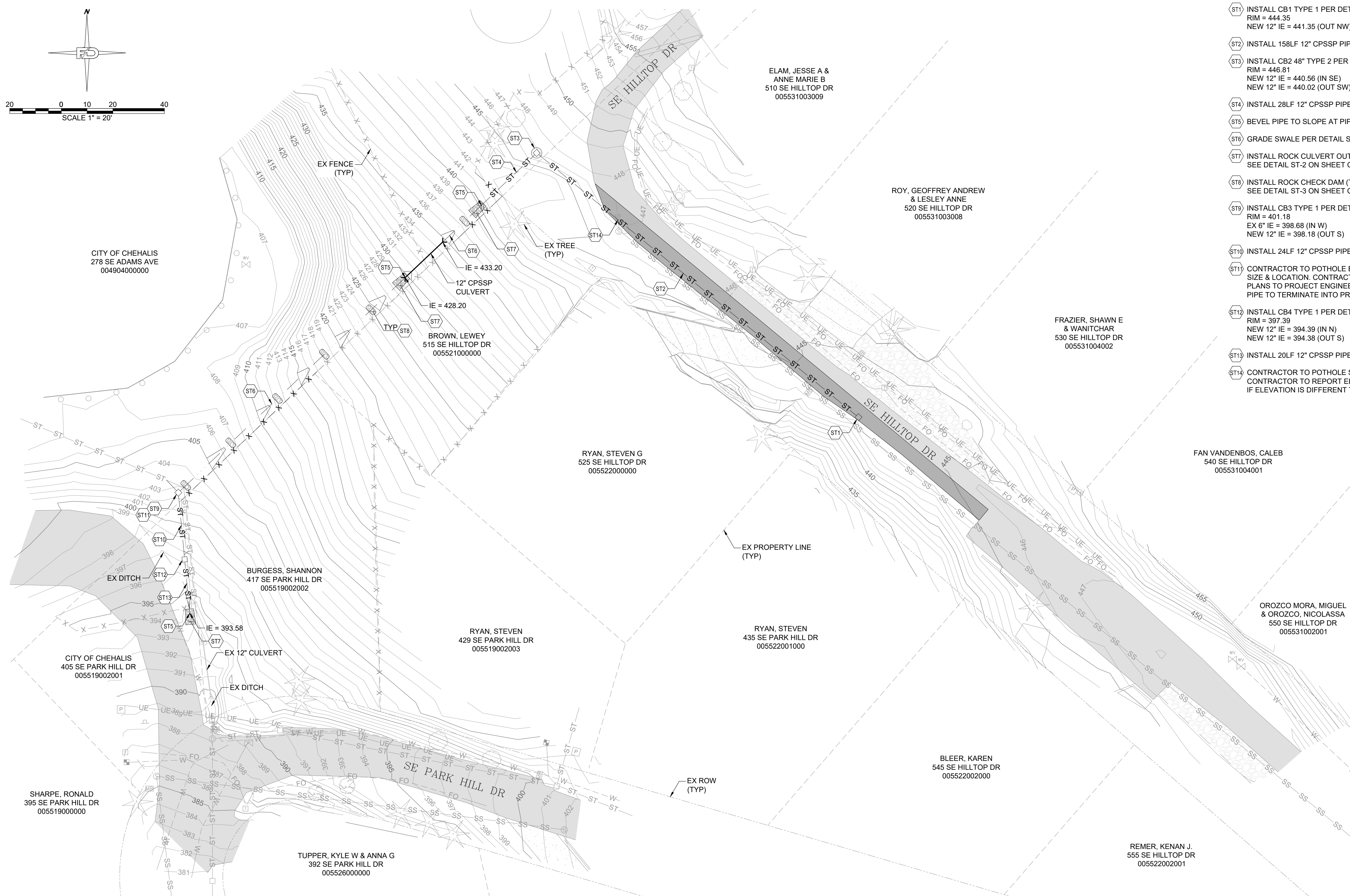
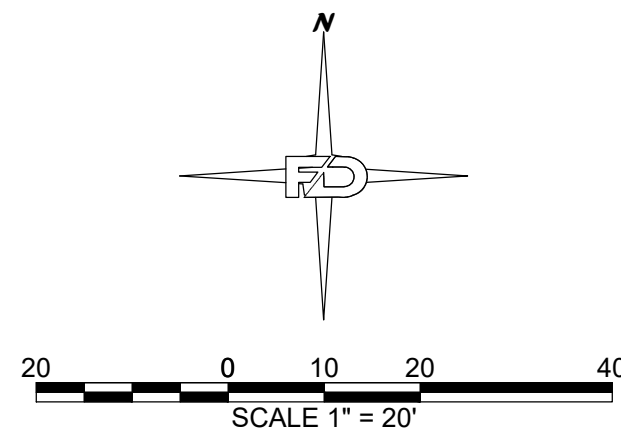
STORM DRAIN INLET PROTECTION

T-1

SECTION 32 TOWNSHIP 14N RANGE 02W

STORMWATER & GRADING NOTES:

- ST1 INSTALL CB1 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 444.35
NEW 12" IE = 441.35 (OUT NW)
- ST2 INSTALL 158LF 12" CPSSP PIPE, S = 0.005 FT/FT
- ST3 INSTALL CB2 48" TYPE 2 PER DETAIL 3-9, SHEET C2.4
RIM = 446.81
NEW 12" IE = 440.56 (IN SE)
NEW 12" IE = 440.02 (OUT SW)
- ST4 INSTALL 28LF 12" CPSSP PIPE, S = 0.005 FT/FT
- ST5 BEVEL PIPE TO SLOPE AT PIPE DAYLIGHT
- ST6 GRADE SWALE PER DETAIL ST-1, SHEET C2.4
- ST7 INSTALL ROCK CULVERT OUTFALL (TYP 2)
SEE DETAIL ST-2 ON SHEET C2.4
- ST8 INSTALL ROCK CHECK DAM (TYP 6)
SEE DETAIL ST-3 ON SHEET C2.4
- ST9 INSTALL CB3 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 401.18
EX 6" IE = 398.68 (IN W)
NEW 12" IE = 398.18 (OUT S)
- ST10 INSTALL 24LF 12" CPSSP PIPE, S = 0.158 FT/FT
- ST11 CONTRACTOR TO POTHOLE EX ROOF DRAIN TO VERIFY DEPTH
SIZE & LOCATION. CONTRACTOR TO REPORT DEVIATIONS FROM
PLANS TO PROJECT ENGINEER. CONTRACTOR TO REALIGN EX
PIPE TO TERMINATE INTO PROPOSED CB.
- ST12 INSTALL CB4 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 397.39
NEW 12" IE = 394.39 (IN N)
NEW 12" IE = 394.38 (OUT S)
- ST13 INSTALL 20LF 12" CPSSP PIPE, S = 0.040 FT/FT
- ST14 CONTRACTOR TO POTHOLE SEWER MAINLINE CROSSING.
CONTRACTOR TO REPORT ELEVATION DIFFERENCES IN EX PIPE
IF ELEVATION IS DIFFERENT THAN IN THE PROFILE BELOW.



DRAWING TITLE: **OVERALL GRADING & DRAINAGE PLAN**

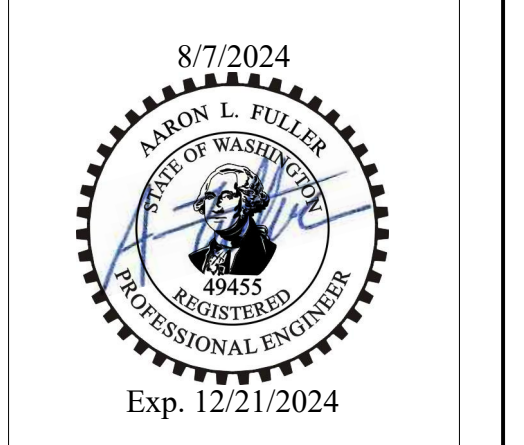
SCALE: **1:20**

DATE: **8/5/24**

CHECKED: **AF**

DRAWN: **SD**

PROJECT NAME: **HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)**



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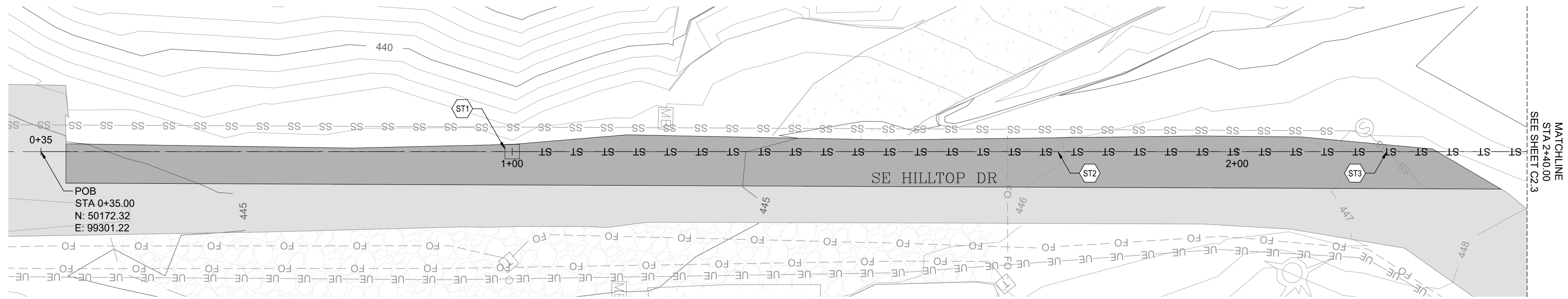
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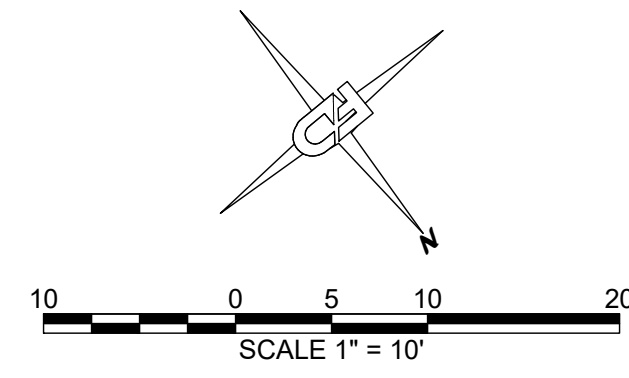
CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

SECTION 32 TOWNSHIP 14N RANGE 02W



STORMWATER & GRADING NOTES:

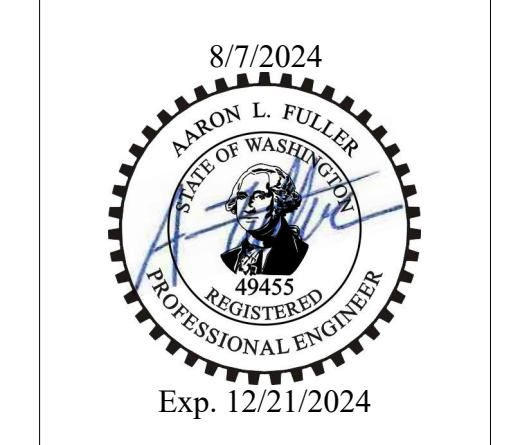
- ST1 INSTALL CB1 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 444.35
NEW 12" IE = 441.35 (OUT NW)
- ST2 INSTALL 158LF 12" CPSSP PIPE, S = 0.005 FT/FT
- ST3 CONTRACTOR TO POTHOLE SEWER MAINLINE CROSSING.
CONTRACTOR TO REPORT ELEVATION DIFFERENCES IN EX PIPE
IF ELEVATION IS DIFFERENT THAN IN THE PROFILE BELOW.



DRAWING TITLE: **STORM SYSTEM PLAN & PROFILE**

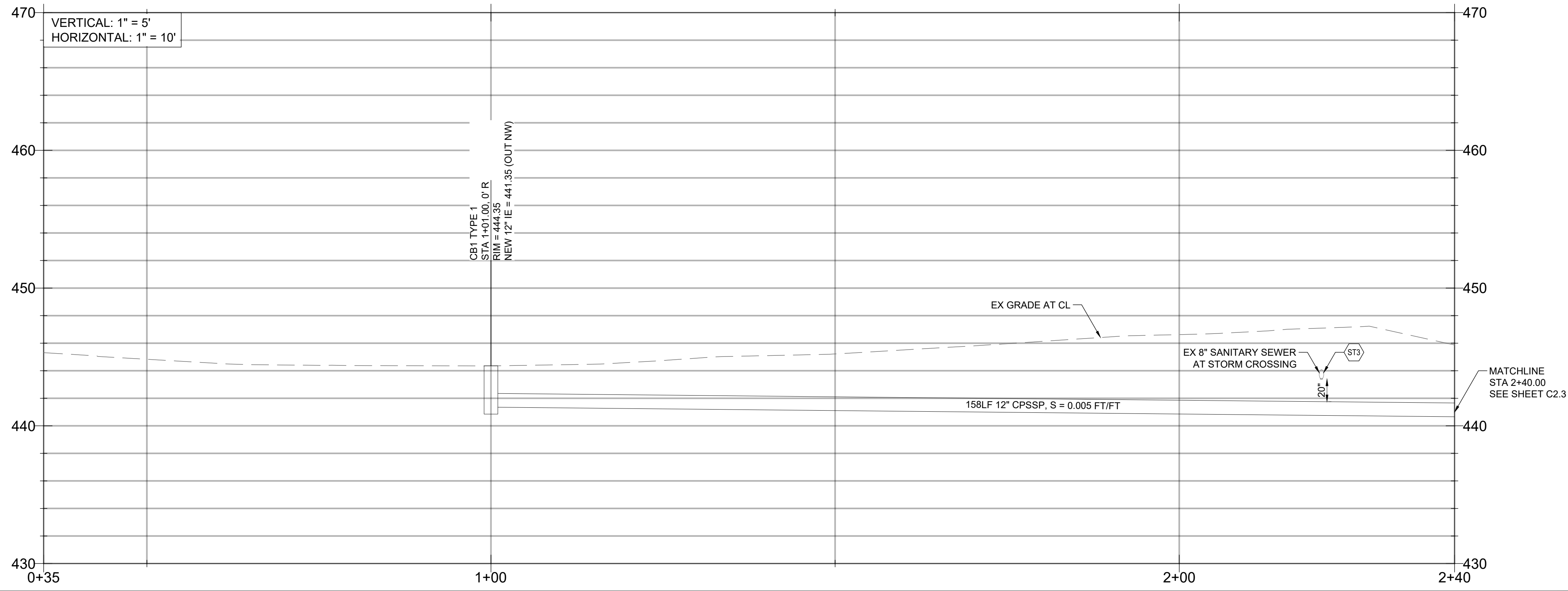
SCALE: **1:10** DATE: **8/5/24** DRAWN: **SD** CHECKED: **AF**

PROJECT NAME: **HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)**



FULLER DESIGNS
1111 KRESKY AVE, SUITE 100
CENTRALIA, WA 98531
(360) 807-4420

STORMWATER PROFILE



APPROVED FOR CONSTRUCTION

BY _____ DATE _____
CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	8/5/24

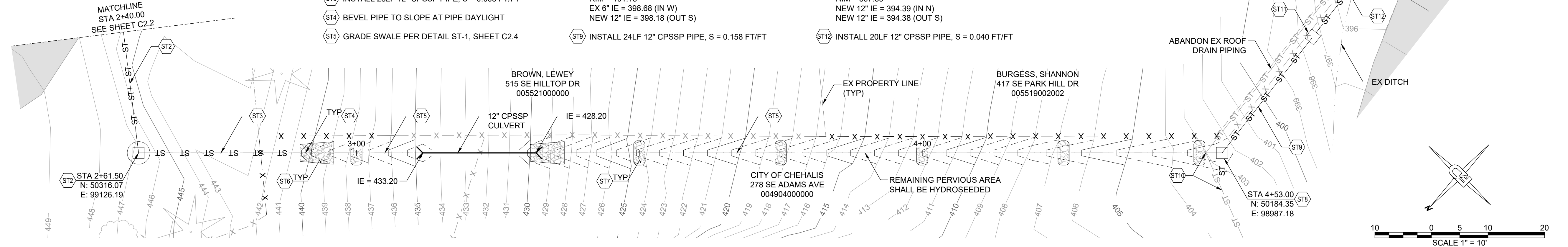
SECTION 32 TOWNSHIP 14N RANGE 02W

APPROVED FOR CONSTRUCTION

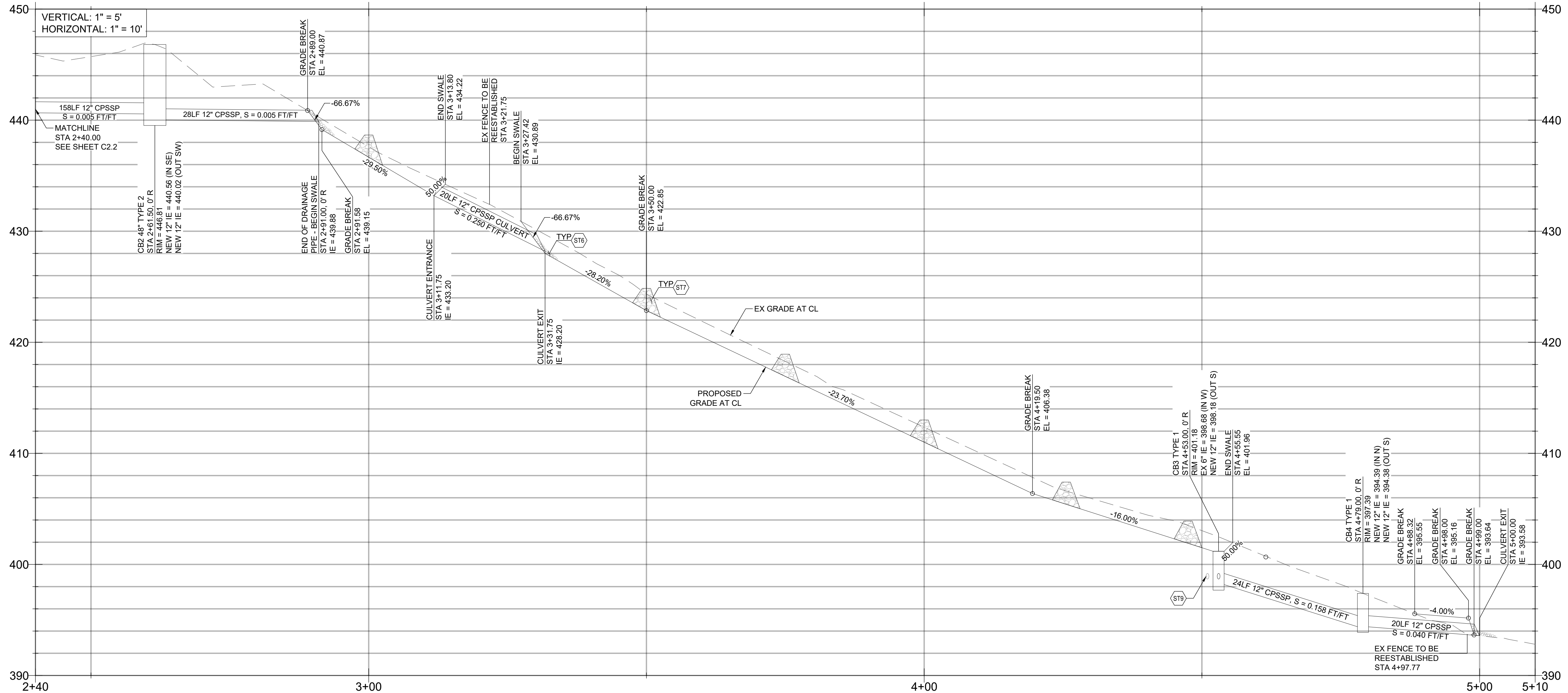
BY _____ DATE _____
CITY ENGINEER APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

STORMWATER & GRADING NOTES:

- (ST1) INSTALL 158LF 12" CPSSP PIPE, S = 0.005 FT/FT
- (ST2) INSTALL CB2 48" TYPE 2 PER DETAIL 3-9, SHEET C2.4
RIM = 446.81
NEW 12" IE = 440.56 (IN SE)
NEW 12" IE = 440.02 (OUT SW)
- (ST3) INSTALL 28LF 12" CPSSP PIPE, S = 0.005 FT/FT
- (ST4) BEVEL PIPE TO SLOPE AT PIPE DAYLIGHT
- (ST5) GRADE SWALE PER DETAIL ST-1, SHEET C2.4
- (ST6) INSTALL ROCK CULVERT OUTFALL (TYP 2)
SEE DETAIL ST-2 ON SHEET C2.4
- (ST7) INSTALL ROCK CHECK DAM (TYP 6)
SEE DETAIL ST-3 ON SHEET C2.4
- (ST8) INSTALL CB3 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 401.18
EX 6" IE = 398.68 (IN W)
NEW 12" IE = 398.18 (OUT S)
- (ST9) INSTALL 24LF 12" CPSSP PIPE, S = 0.158 FT/FT
- (ST10) CONTRACTOR TO POT HOLE EX ROOF DRAIN TO VERIFY DEPTH SIZE & LOCATION. CONTRACTOR TO REPORT DEVIATIONS FROM PLANS TO PROJECT ENGINEER. CONTRACTOR TO REALIGN EX PIPE TO TERMINATE INTO PROPOSED CB.
- (ST11) INSTALL CB4 TYPE 1 PER DETAIL 3-1, SHEET C2.4
RIM = 397.39
NEW 12" IE = 394.39 (IN N)
NEW 12" IE = 394.38 (OUT S)
- (ST12) INSTALL 20LF 12" CPSSP PIPE, S = 0.040 FT/FT



STORMWATER PROFILE



DRAWING TITLE: STORM SYSTEM PLAN & PROFILE		CHECKED: AF
SCALE: 1:10	DATE: 8/5/24	DRAWN: SD
PROJECT NAME: HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)		



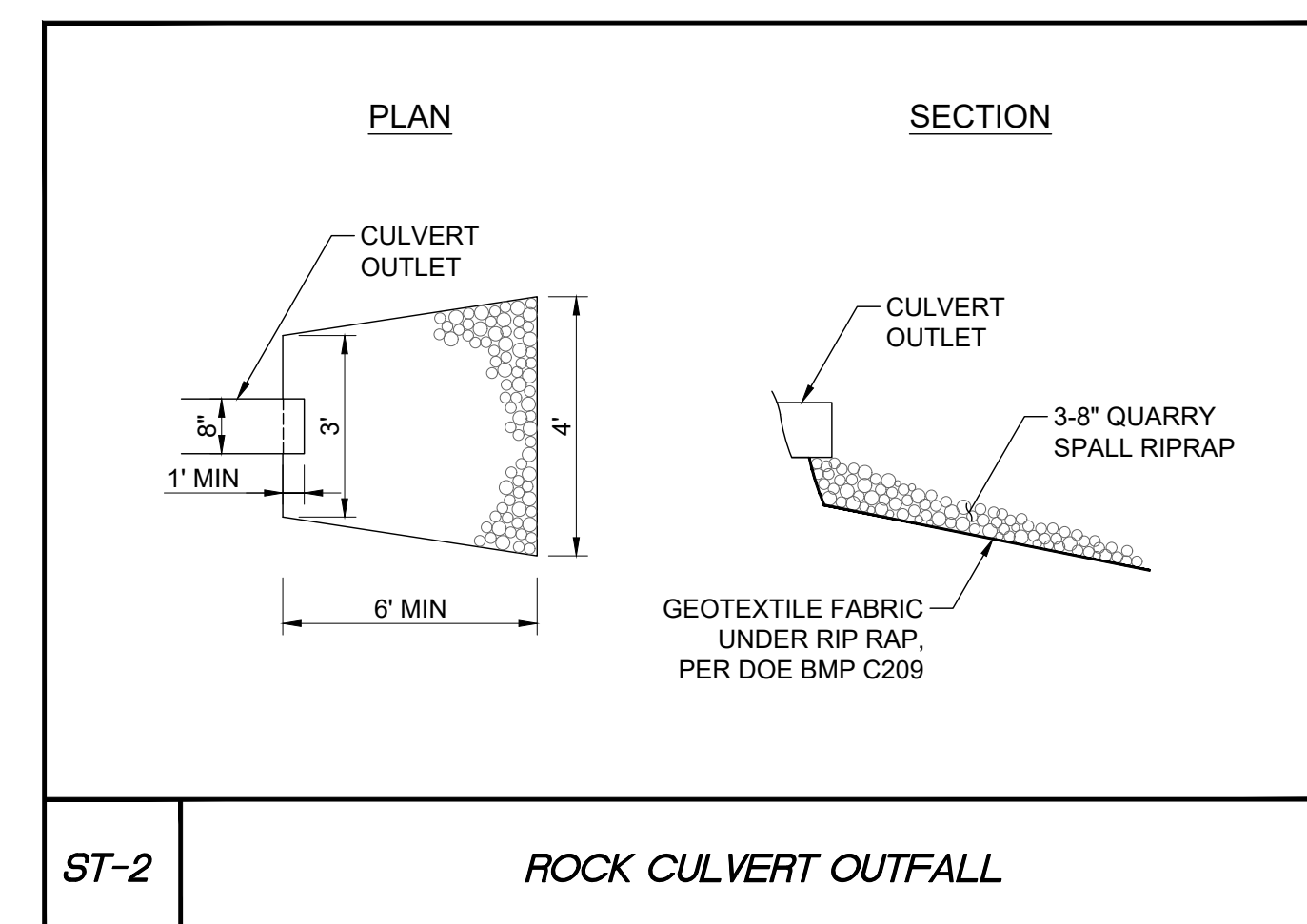
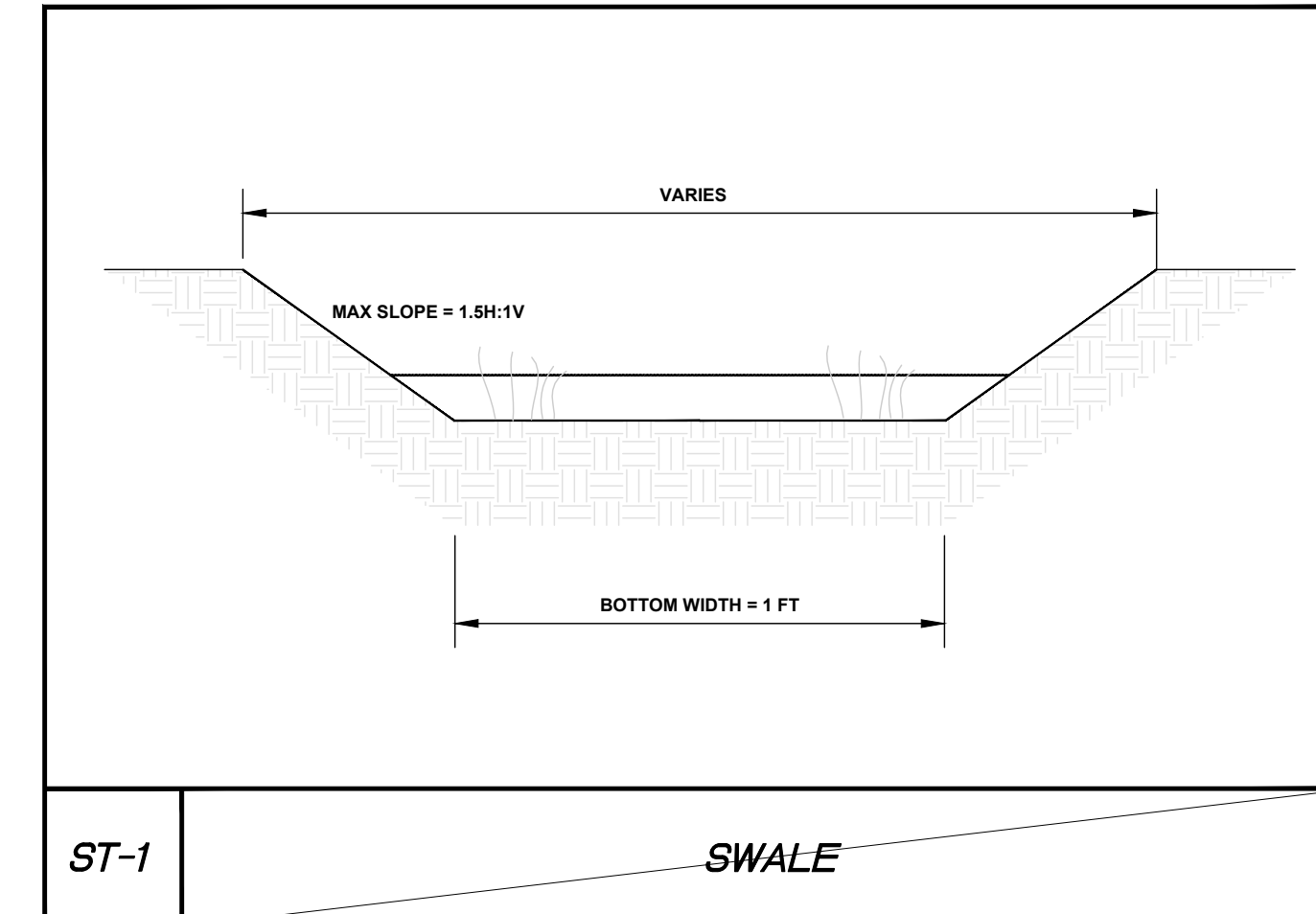
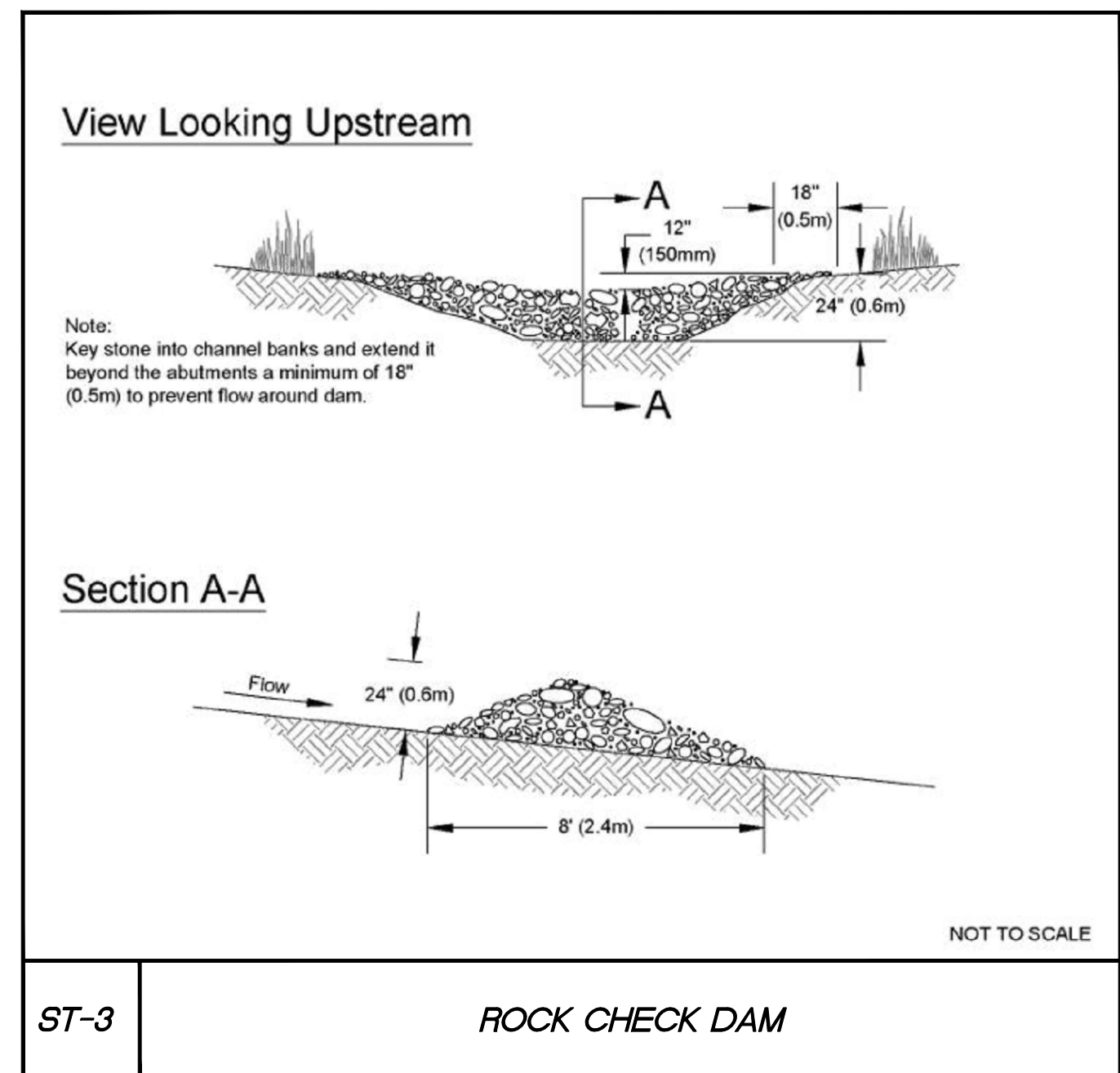
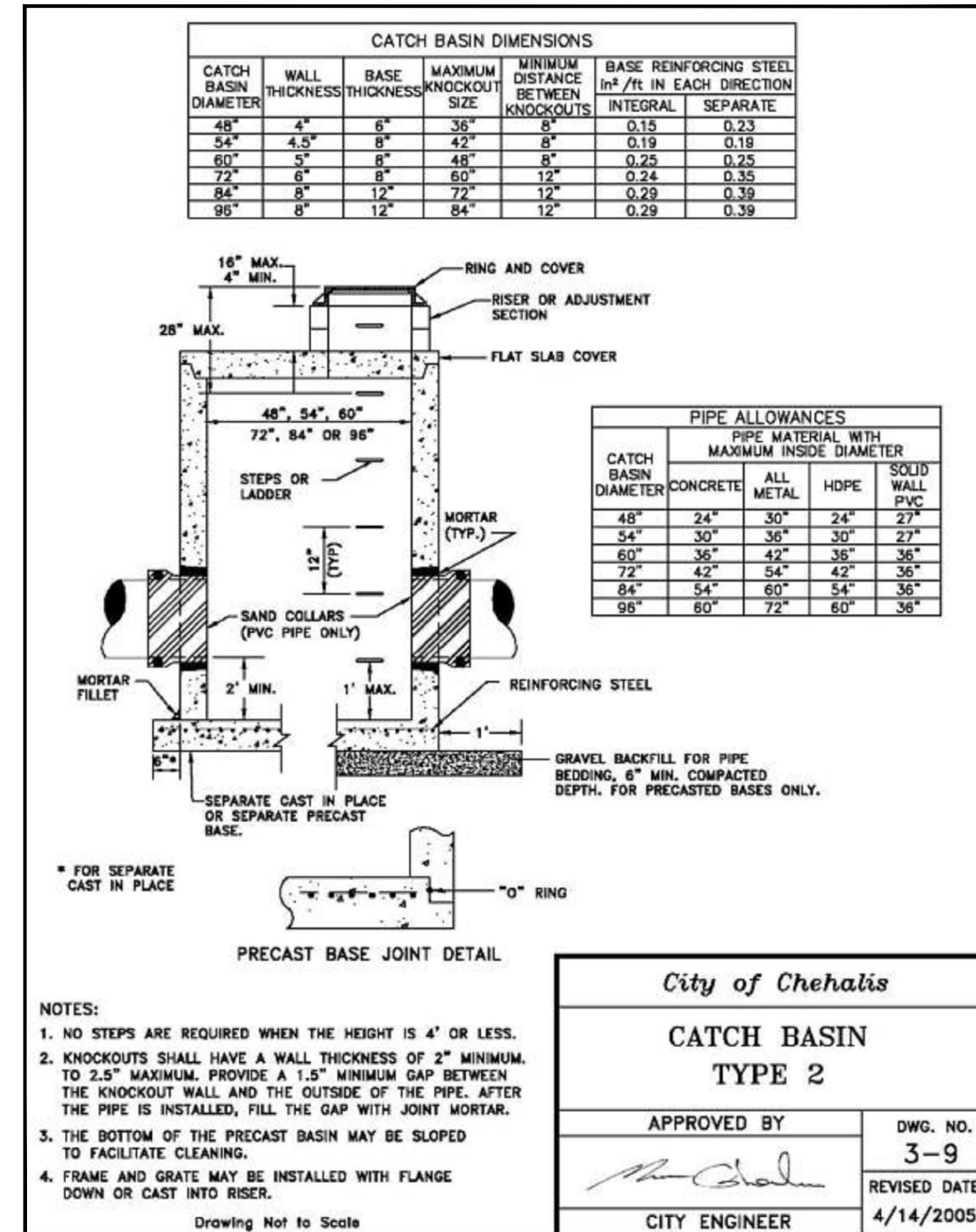
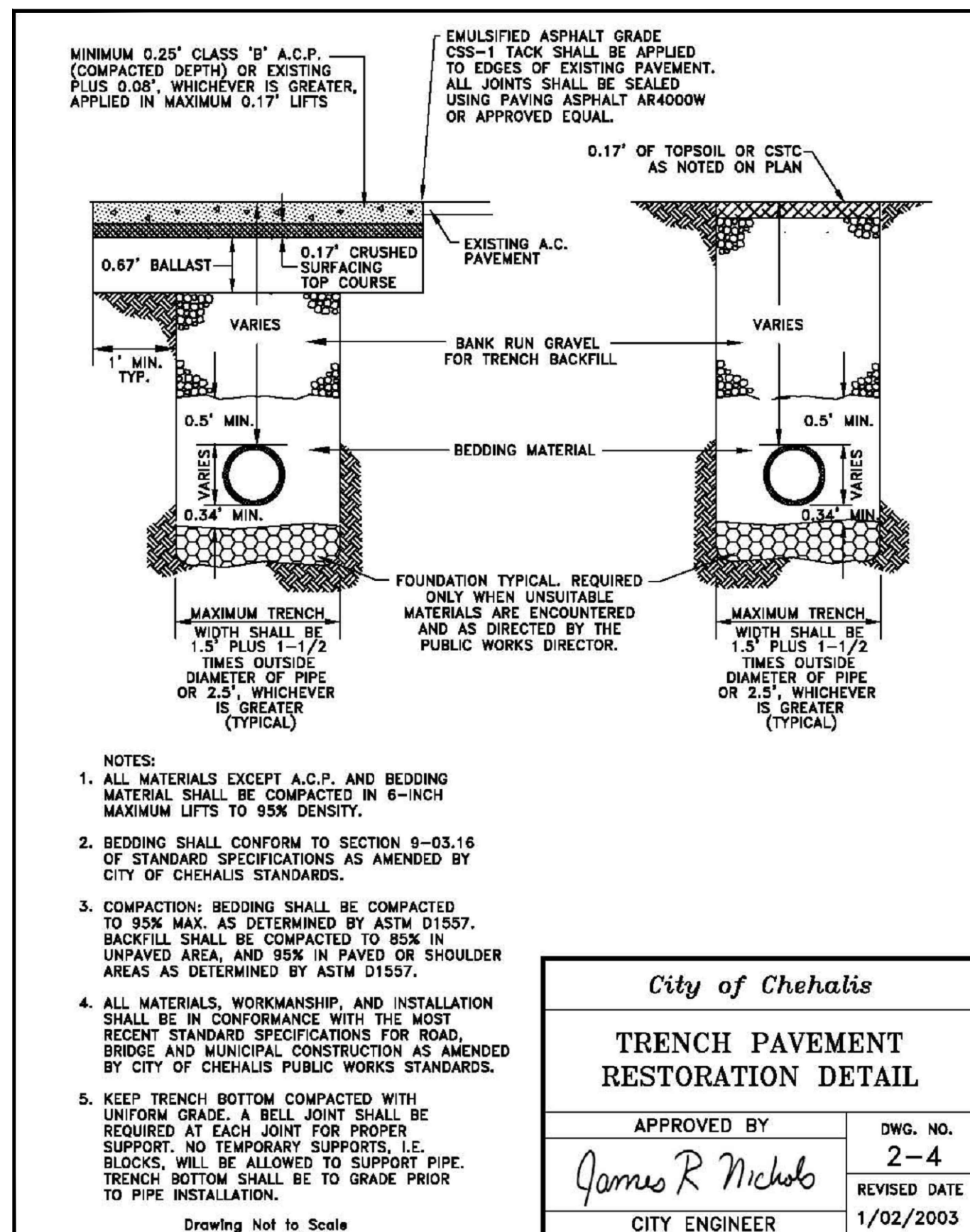
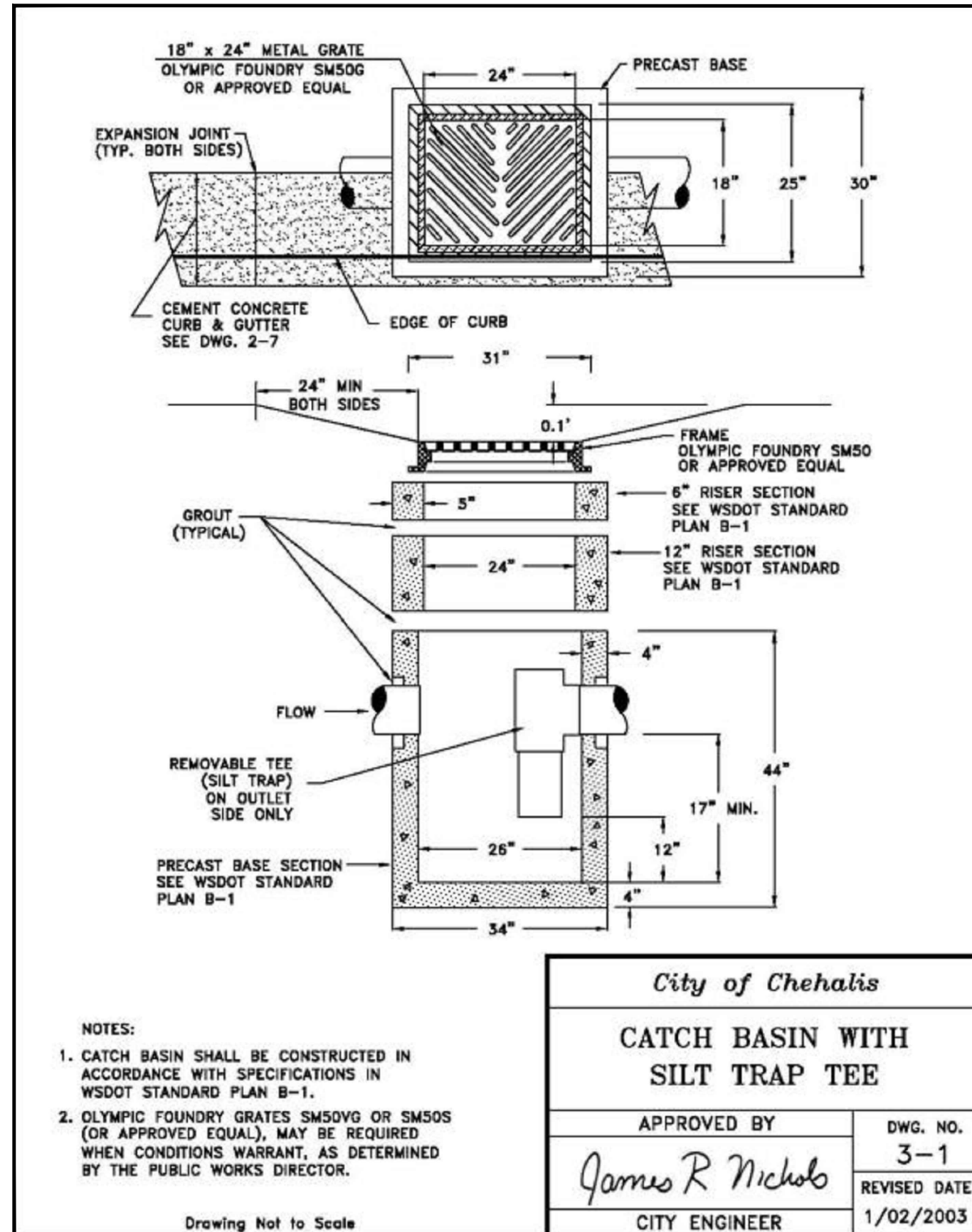
FULLER DESIGNS
1111 KRESKY AVE, SUITE 100
CENTRALIA, WA 98531
(360) 807-4420

REV.	DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	8/5/24

SECTION 32 TOWNSHIP 14N RANGE 02W

**STORM DRAIN CONSTRUCTION
GENERAL NOTES**

- ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF CHEHALIS DEVELOPMENT ENGINEERING 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 STORM WATER 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 PRECONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT AND THE ENGINEERING DIVISION 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 D3034 SDR 35 OR ASTM F794 OR ASTM F679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM D3212 AND ASTM F477.
 - DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF AWWA C151, THICKNESS CLASS AS SHOWN ON THE PLANS.
 - HIGH-DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M 252 TYPES OR AASHTO M 294 TYPE S, WITH A GASKETED BELL AND SPIGOT JOINTS.
 - ALUMINIZED STEEL HELICAL OR SPIRAL RIB PIPE IN DIAMETERS OF 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 MANUFACTURER'S 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 BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
- WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS," THE CONTRACTOR WILL EXPOSE CONNECTION POINTS AND VERIFY NECESSARY FITTINGS TWO 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 PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT 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 DEPARTMENT OR DESIGNATED CONSULTANT.
- CONTRACTORS AND/OR PROPERTY OWNERS ARE REQUIRED TO CHANNEL WATER WHEN INSTALLING OR REPAIRING A DRIVEWAY. WATER MAY BE CHANNELLED WITH A BERM OR A PIPE. STORM WATER MUST BE DIVERTED TO CITY STORM MAINS WHEN POSSIBLE.
- THE CITY MUST BE NOTIFIED A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A REPRESENTATIVE FROM THE CITY MUST BE PRESENT AT THE TIME OF THE TAP.
- PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A CITY INSPECTOR. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY OF REPAIRING ALL DEFICIENCIES AND FAILURES REVEALED DURING REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE REEXCAVATED FOR INSPECTION AT NO COST TO THE CITY.



APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____
CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

DRAWING TITLE: **STORM SYSTEM DETAILS**

DATE: 8/5/24 DRAWN: SD CHECKED: AF

SCALE: N/A PROJECT NAME: HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)

8/7/2024
ARON L. FULLER
STATE OF WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
49455
Exp. 12/21/2024

FULLER DESIGNERS
1111 KRESKY AVE, SUITE 100
CENTRALIA, WA 98531
(360) 807-4420

DATE: 8/5/24

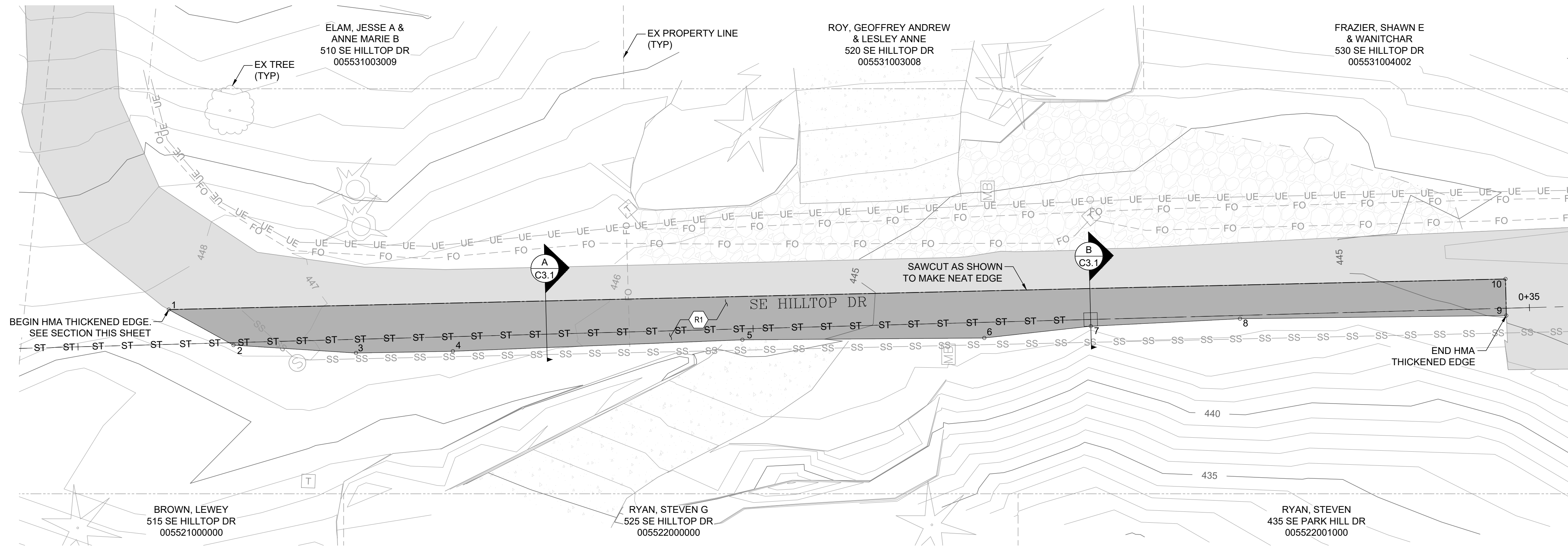
DESCRIPTION: ISSUED FOR CONSTRUCTION

REV: 0

C2.4

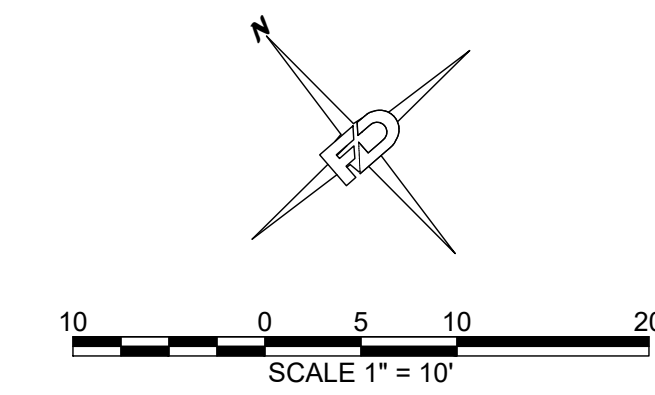
7 OF 8

SECTION 32 TOWNSHIP 14N RANGE 02W



ROADWAY NOTES:

R1 INSTALL NEW PAVEMENT ROADWAY. SEE DETAILS THIS SHEET

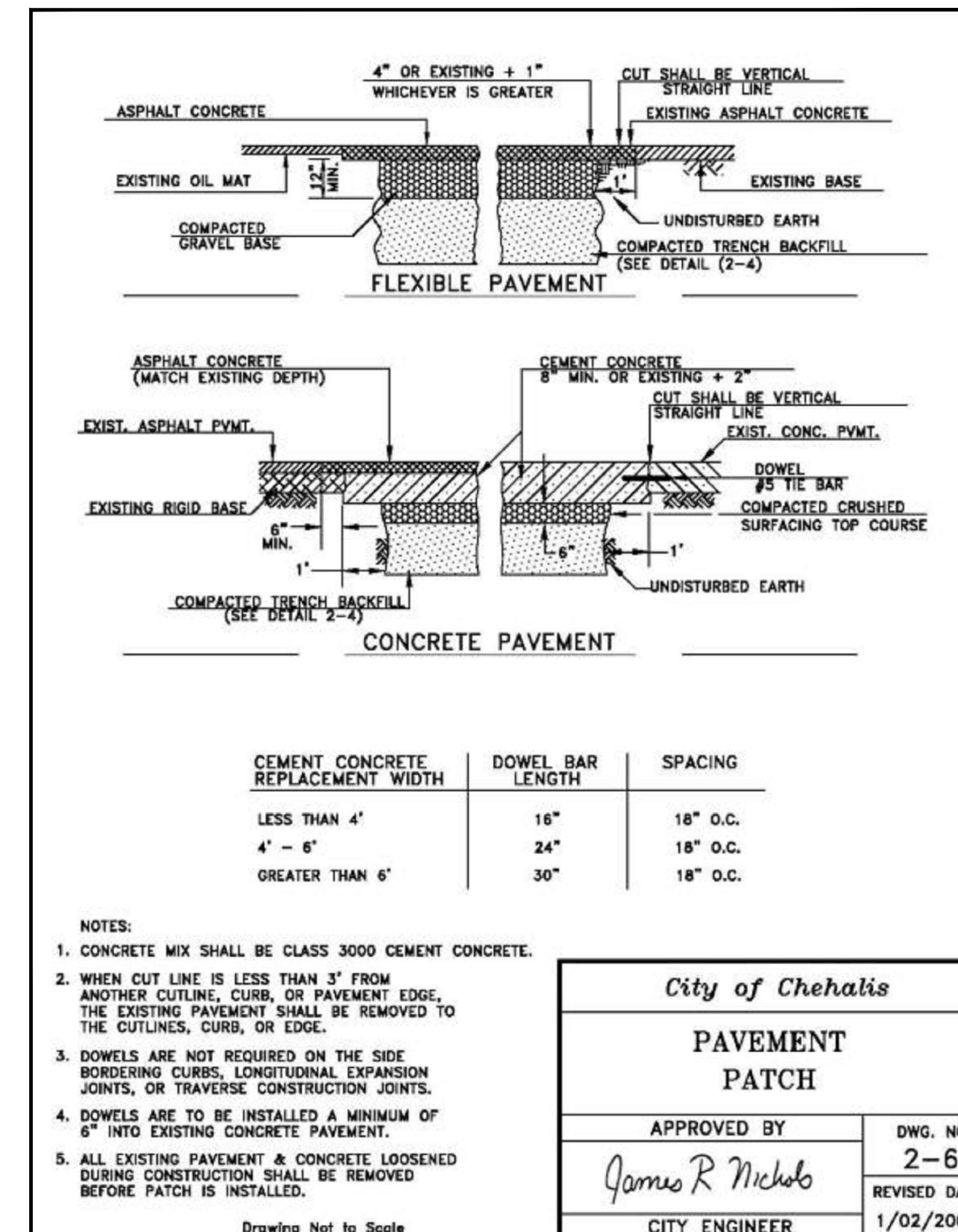
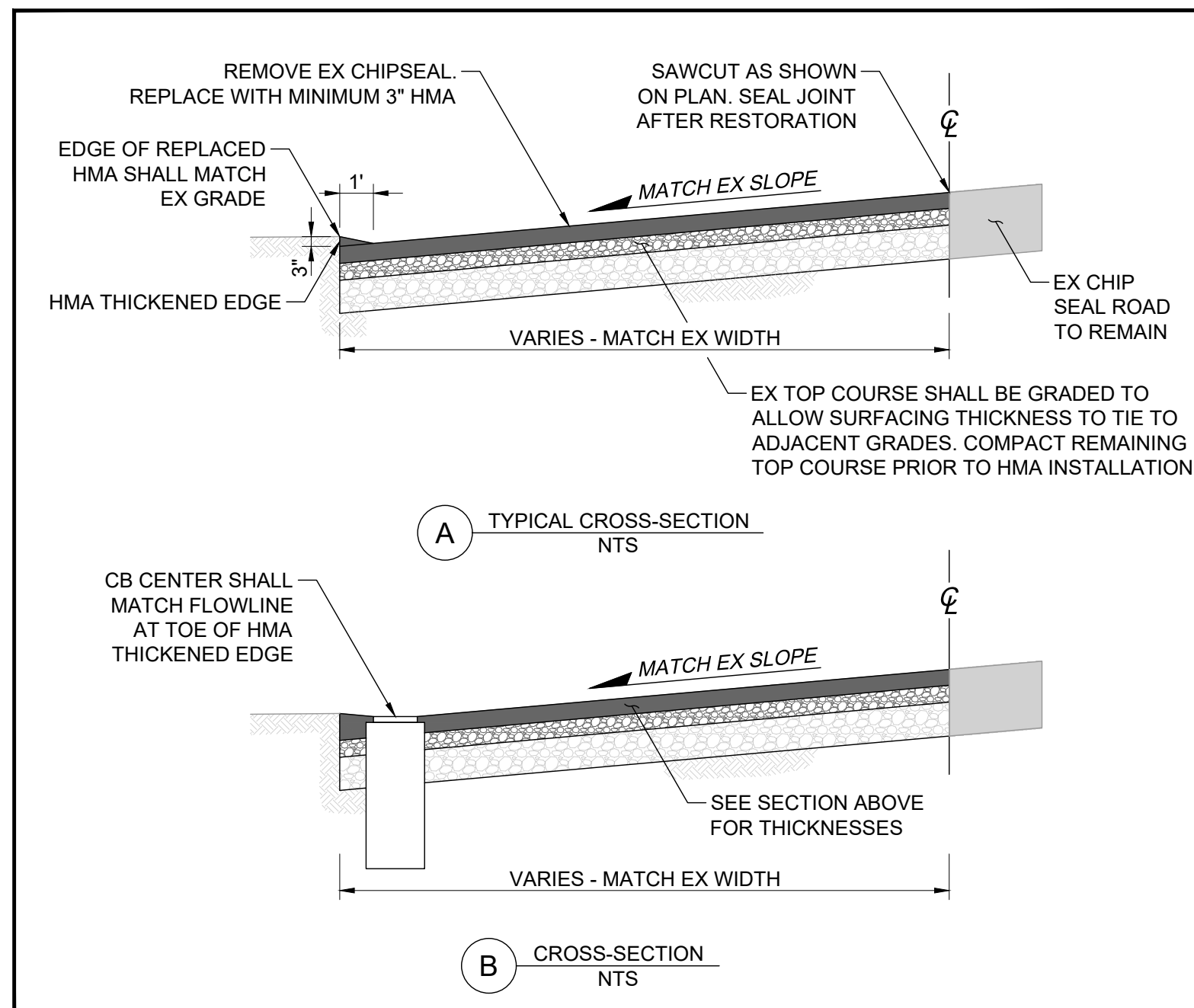


POINT TABLE

Pnt #	Elevation	Northing	Easting	Description
1	447.66 (MATCH EX)	50304.13	99148.85	ASPHALT EDGE
2	447.21 (MATCH EX)	50293.87	99152.64	ASPHALT EDGE
3	446.92 (MATCH EX)	50281.10	99165.57	ASPHALT EDGE
4	446.58 (MATCH EX)	50271.90	99176.57	ASPHALT EDGE
5	445.28 (MATCH EX)	50245.08	99210.07	ASPHALT EDGE
6	444.45 (MATCH EX)	50221.82	99237.30	ASPHALT EDGE
7	444.31 (MATCH EX)	50212.80	99250.36	ASPHALT EDGE
8	444.36 (MATCH EX)	50199.16	99267.77	ASPHALT EDGE
9	445.08 (MATCH EX)	50173.67	99297.87	ASPHALT EDGE
10	445.52 (MATCH EX)	50177.85	99301.32	ASPHALT EDGE

STREET CONSTRUCTION
GENERAL NOTES

- ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY STANDARDS AND THE MOST RECENT EDITION OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR RD, 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 SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK WILL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS 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 SUCH WORK.
- WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT SHALL 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 THE PUBLIC WORK STANDARDS.
- THE PUBLIC WORKS DEPARTMENT WILL INSTALL AND OVERSEE THE INSTALLATION OF STREET NAME AND REGULATORY SIGNS AT THE CONTRACTOR'S/DEVELOPER'S EXPENSE. ALL STREET NAME AND REGULATORY SIGNS WILL BE REQUESTED AND APPROVED BY THE CITY PRIOR TO THE START OF CONSTRUCTION.



City of Chehalis

PAVEMENT
PATCH

APPROVED BY
James R Nichols
CITY ENGINEER

DWG. NO.
2-6

REVISED DATE
1/02/2003

APPROVED FOR CONSTRUCTION

BY _____ DATE _____

CITY ENGINEER
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

DRAWING TITLE:
HILLTOP ROADWAY IMPROVEMENTS

DATE: 8/5/24
DRAWN: SD
CHECKED: AF

SCALE: 1:10
PROJECT NAME: HILLTOP STORM DRAINAGE (CITY OF CHEHALIS)

8/7/2024
ARON L. FULLER
STATE OF WASHINGTON
49455
PROFESSIONAL ENGINEER
Exp. 12/21/2024

FULLER DESIGNERS
1111 KRESKY AVE, SUITE 100
CENTRALIA, WA 98531
(360) 807-4420

DATE: 8/5/24

DESCRIPTION: ISSUED FOR CONSTRUCTION

REV: 0

C3.1

8 OF 8