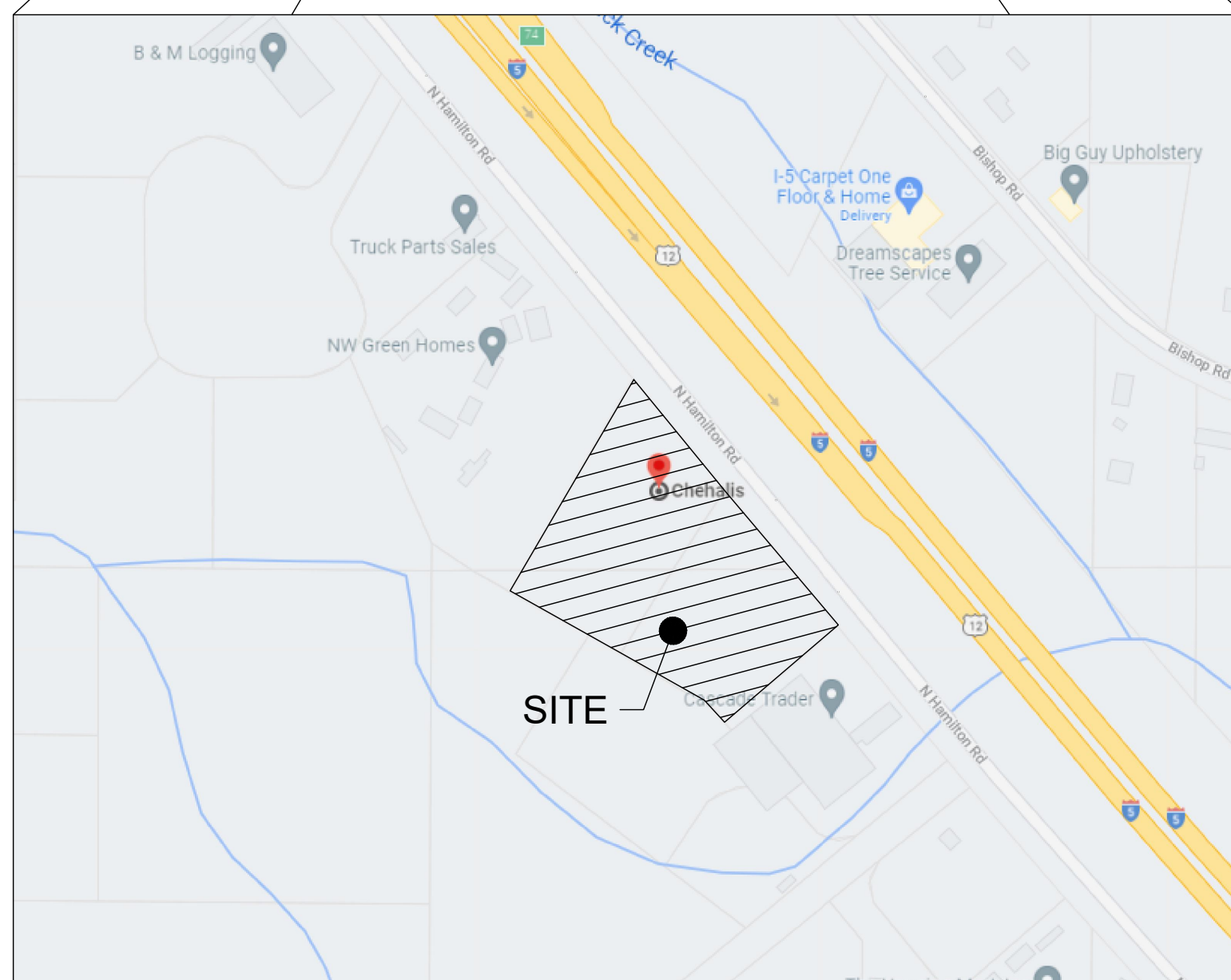
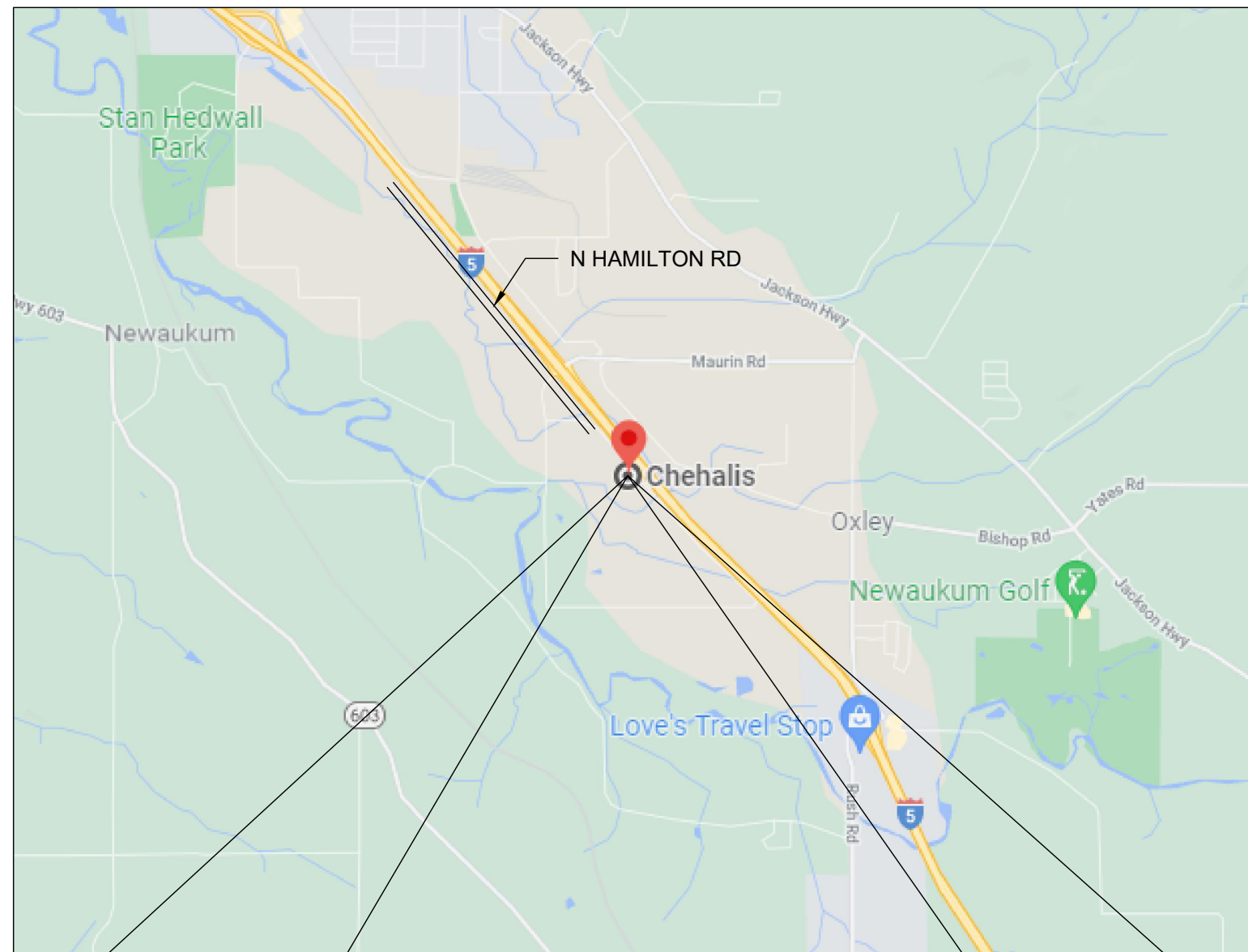


ALPINE MINI STORAGE & RV PARKING

SECTION 10 TOWNSHIP 13N RANGE 02W
CITY OF CHEHALIS
WASHINGTON

VICINITY MAP 



PROJECT INFORMATION:

APPLICANT: HAMILTON ROAD F&L ADVENTURES, LLC.
243 ALDERWOOD DR
CHEHALIS, WA 98532-8682

SITE ADDRESS: 0 N HAMILTON RD
CHEHALIS, WA 98532

PARCEL NUMBER: 017765005000, 017765004002, 017896005000 & 017896006003

ZONING (CITY): CG - GENERAL COMMERCIAL

LOTS: 4 EXISTING 1 PROPOSED

SITE SOILS: OLEQUA SILT LOAM, 0 TO 5 PERCENT SLOPES & LACAMAS SILT LOAM, 0 TO 3 PERCENT SLOPES

WATER: CITY MAIN - METERED

SANITARY SEWER: CITY MAIN - GRAVITY

GRADING: 730± CY CUT
1170± CY FILL

PARKING STALLS: 10'x40' (TYP 42), 9'x20' (TYP 2)

TOTAL NUMBER OF STORAGE UNITS = 394

SURVEY INFORMATION:

BASIS OF BEARING

BEARINGS ARE GRID NORTH WASHINGTON STATE PLANE COORDINATES SYS. - SOUTH ZONE

BASIS OF ELEVATION

VERTICAL DATUM IS NGVD 29

GEOTECHNICAL INFORMATION:

A GEOTECHNICAL REPORT WAS PREPARED BY QUALITY GEO.

TOPOGRAPHIC INFORMATION:

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS PROVIDED BY FORESITE SURVEYING INC.

LEGEND

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

HATCH	EXISTING	PROPOSED	DESC.
■	■	■	AC PAVEMENT
■	■	■	GRAVEL
■	■	■	CONCRETE
■	■	■	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
°	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
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
PL	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT OF CONNECTION
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.
□	□	□	CATCH BASIN
○	○	○	FIRE HYDRANT
○	○	○	SANITARY SEWER CLEAN OUT
■	■	■	ILLUMINARE & POLE
□	□	□	JUNCTION BOX
⊗	⊗	⊗	PIG PORT
⊙	⊙	⊙	SANITARY SEWER MANHOLE
⊙	⊙	⊙	STORM MANHOLE
⊞	⊞	⊞	SERVICE DISCONNECT
XXX	XXX	XXX	SPOT ELEVATION
→	→	→	SURFACE FLOW
○	○	○	TREE
→	→	→	GUY WIRE
⊙	⊙	⊙	UTILITY POLE
⊙	⊙	⊙	STREET SIGN
⊙	⊙	⊙	WATER METER
⊙	⊙	⊙	WATER PIPE BEND
⊙	⊙	⊙	WATER VALVE
⊙	⊙	⊙	RPBA

DRAWING CONTENTS:

- C0.1 - CIVIL COVER
- C1.1 - OVERALL SITE & TESC PLAN
- C1.2 - TESC NOTES & DETAILS
- C2.1 - HORIZONTAL CONTROL PLAN
- C3.1 - GRADING & DRAINAGE PLAN
- C3.2 - DRAINAGE DETAILS
- C4.1 - UTILITY PLAN
- C4.2 - UTILITY DETAILS

APPROVED FOR CONSTRUCTION

BY _____ DATE _____
PUBLIC WORKS DEPARTMENT OR
DESIGNATED CONSULTANT

APPROVAL EXPIRES: _____



PROJECT SPECIFICATIONS:

THE WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, 2022 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 COUNTY 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.

UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND HAULED TO A WASTE SITE OBTAINED BY THE CONTRACTOR. PRIOR TO REMOVAL, CONTRACTOR SHALL NOTIFY PROJECT OWNER SO MEASUREMENT/PAYMENT CAN BE MADE PER TON OF UNSUITABLE MATERIAL REMOVED.

EROSION CONTROL NOTE:
EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES. NO SILTATION OF EXISTING OR PROPOSED DRAINAGE STRUCTURES WILL BE PERMITTED. CARE SHALL BE TAKEN TO PREVENT MIGRATION OF SOILS TO ADJACENT PROPERTIES. DISTURBED EARTH SHALL BE STABILIZED AS REQUIRED BY THE STANDARD SPECIFICATIONS. INDIVIDUAL DESIGNATED TO MONITOR EROSION CONTROL FACILITIES DURING CONSTRUCTION SHALL HAVE CESCL CERTIFICATION.

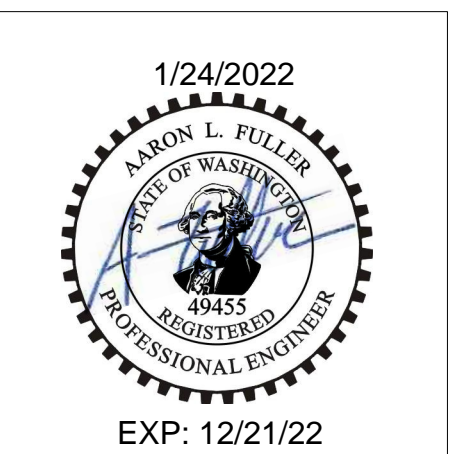
GENERAL NOTES:
CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ADJACENT PROPERTY OWNERS. DRIVEWAYS AND UTILITY SERVICES SHALL REMAIN ACCESSIBLE AT ALL TIMES.

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

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
	ALPINE MINI STORAGE & RV PARKING
SCALE:	N/A
DATE:	1/21/22
DRAWN:	SD
CHECKED:	MF
PROJECT NAME:	ALPINE MINI STORAGE & RV PARKING

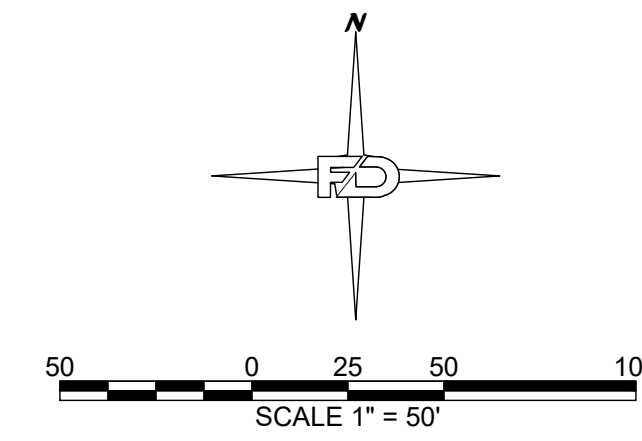
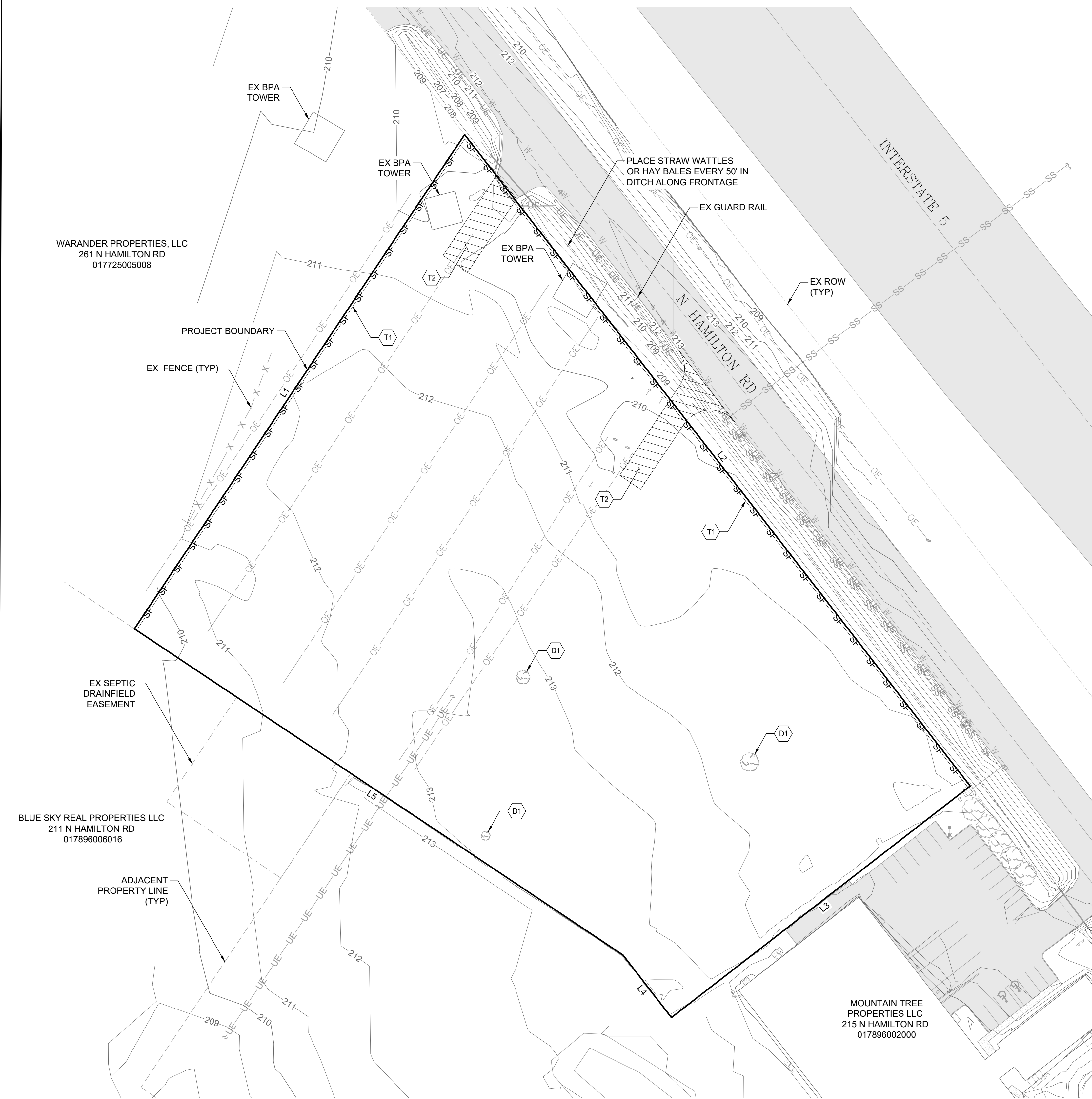


FULLER DESIGNS
1101 KRESKY AVE
CENTRALIA, WA 98531
(360) 807-4420

REV.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	1/21/22

C0.1
1 OF 8

SECTION 10 TOWNSHIP 13N RANGE 02W



TESC PLAN NOTES:

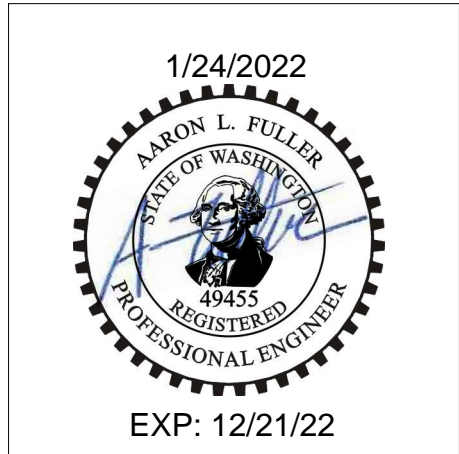
- T1 INSTALL SILT FENCE PER DETAIL 3-4, SHEET C1.2
- T2 INSTALL 100' CONSTRUCTION ENTERANCE PER DETAIL 3-2, SHEET C1.2

DEMOLITION NOTES:

- D1 EX TREE TO BE REMOVED

Parcel Line Table		
Line #	Bearing	Distance
L1	S33° 44' 18.73"W	472.05
L2	S37° 48' 22.01"E	654.88
L3	N52° 12' 43.09"E	300.10
L4	N37° 47' 16.91"W	62.82
L5	N56° 15' 41.91"W	466.53

DRAWING TITLE: OVERALL & TESC PLAN			
DATE:	1/21/22	DRAWN:	SD
SCALE:	1:50	CHECKED:	MF
PROJECT NAME: ALPINE MINI STORAGE & RV PARKING			



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CENTRALIA, WA 98531
(360) 807-4420

REV.	DESCRIPTION:	DATE:
1	ISSUED FOR CONSTRUCTION	1/21/22

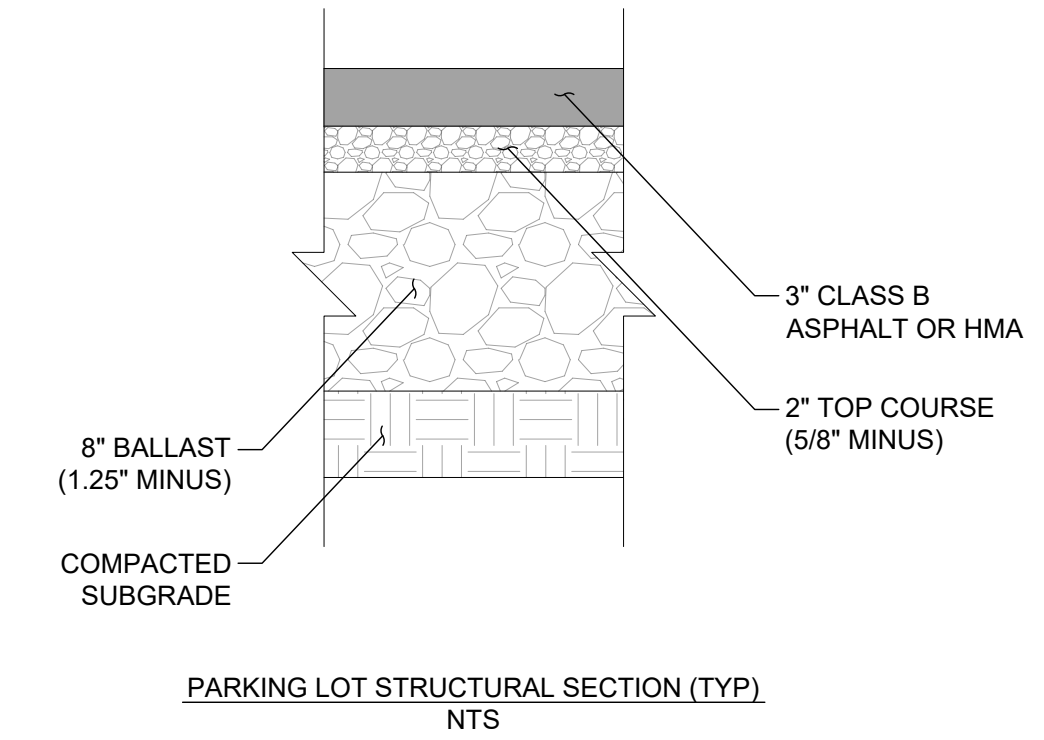
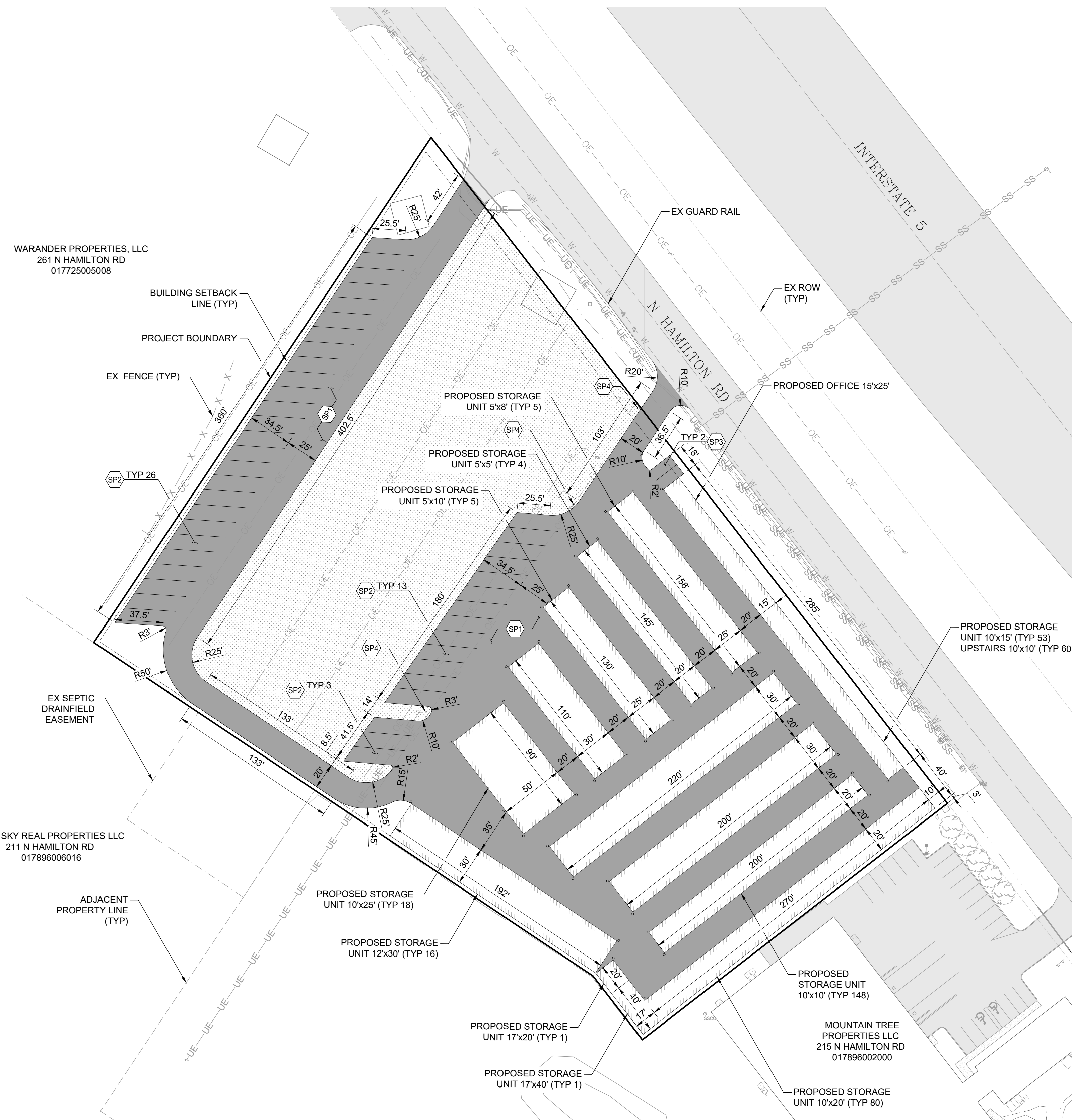
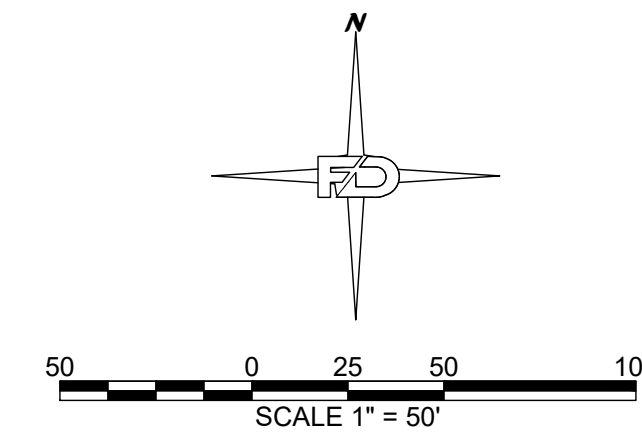
APPROVED FOR CONSTRUCTION
BY _____ DATE _____
PUBLIC WORKS DEPARTMENT OR
DESIGNATED CONSULTANT
APPROVAL EXPIRES: _____

C1.1
2 OF 8

SECTION 10 TOWNSHIP 13N RANGE 02W

SITE PLAN NOTES:

- SP1 INSTALL AC PAVEMENT PARKING LOT, SEE STRUCTURAL SECTION THIS SHEET
- SP2 INSTALL 12'x40' RV PARKING STALL (TYP 42)
- SP3 INSTALL 9'x20' PARKING STALL (TYP 2)
- SP4 INSTALL BOLLARD (TYP 41)
BOLLARDS AT BUILDING CORNERS SHALL BE PLACED 6' OFF EACH BUILDING CORNER



DRAWING TITLE: **HORIZONTAL CONTROL PLAN**

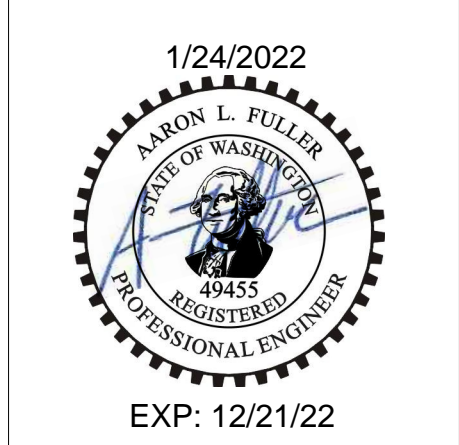
SCALE: **1:50**

DATE: **1/21/22**

CHECKED: **MF**

DRAWN: **SD**

PROJECT NAME: **ALPINE MINI STORAGE & RV PARKING**



FULLER DESIGNS
1101 KRESKY AVE
CENTRALIA, WA 98531
(360) 807-4420

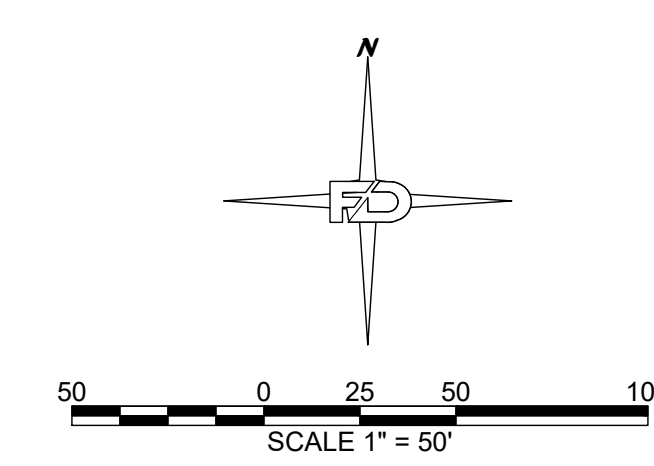
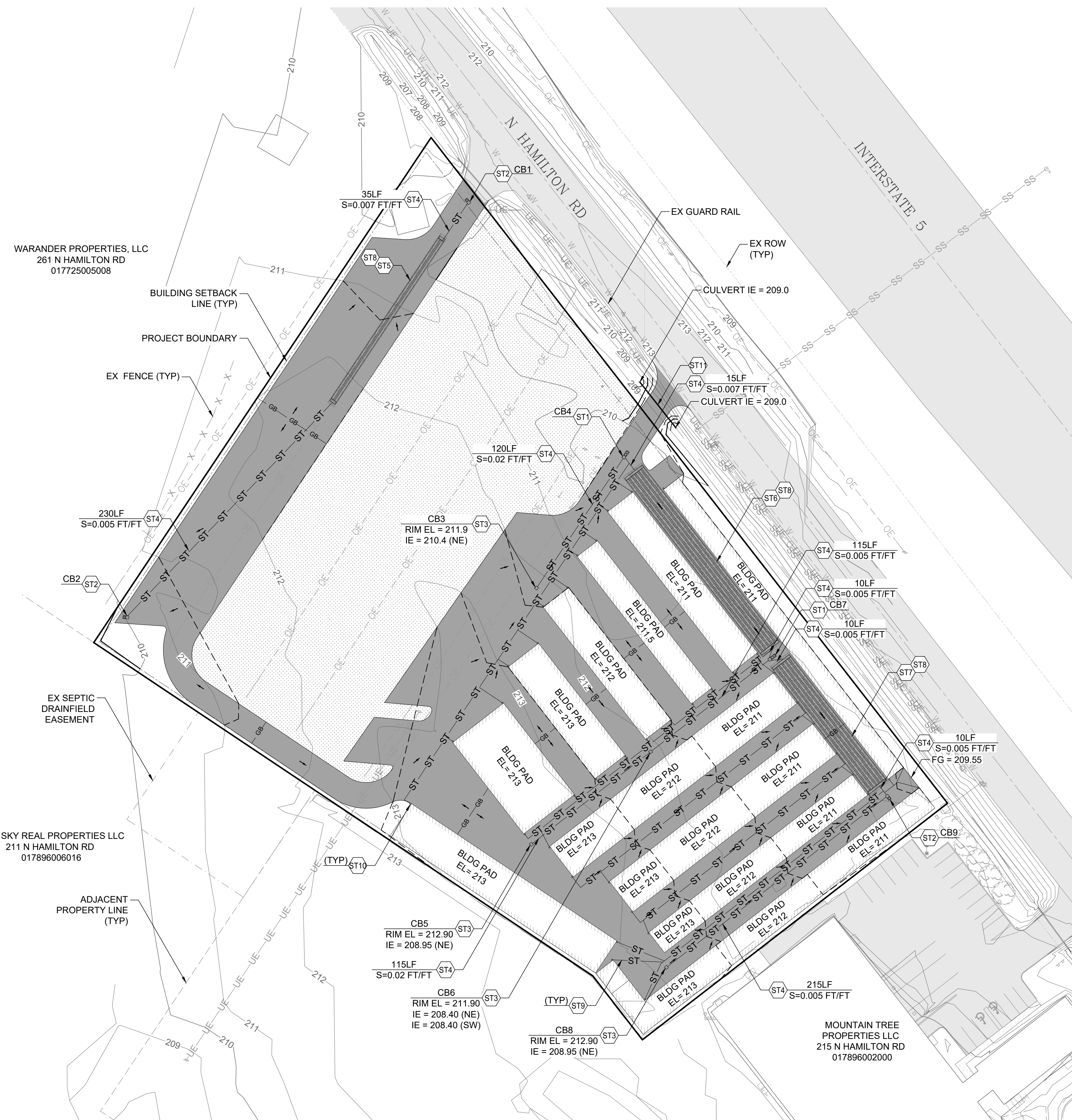
REV.	DESCRIPTION:	DATE:
1	ISSUED FOR CONSTRUCTION	1/21/22

APPROVED FOR CONSTRUCTION

BY _____ DATE _____
PUBLIC WORKS DEPARTMENT OR
DESIGNATED CONSULTANT

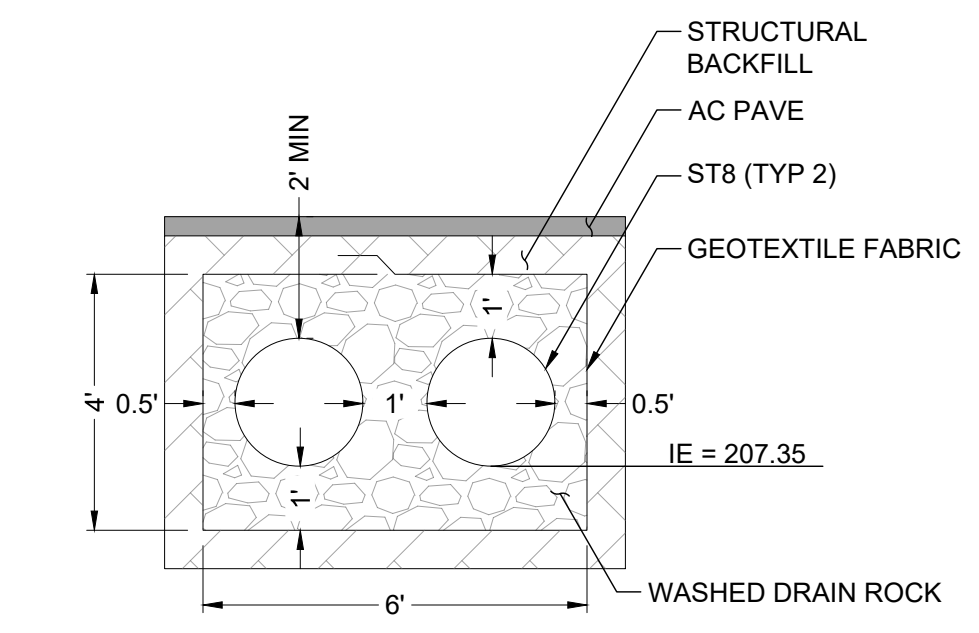
APPROVAL EXPIRES: _____

SECTION 10 TOWNSHIP 13N RANGE 02W

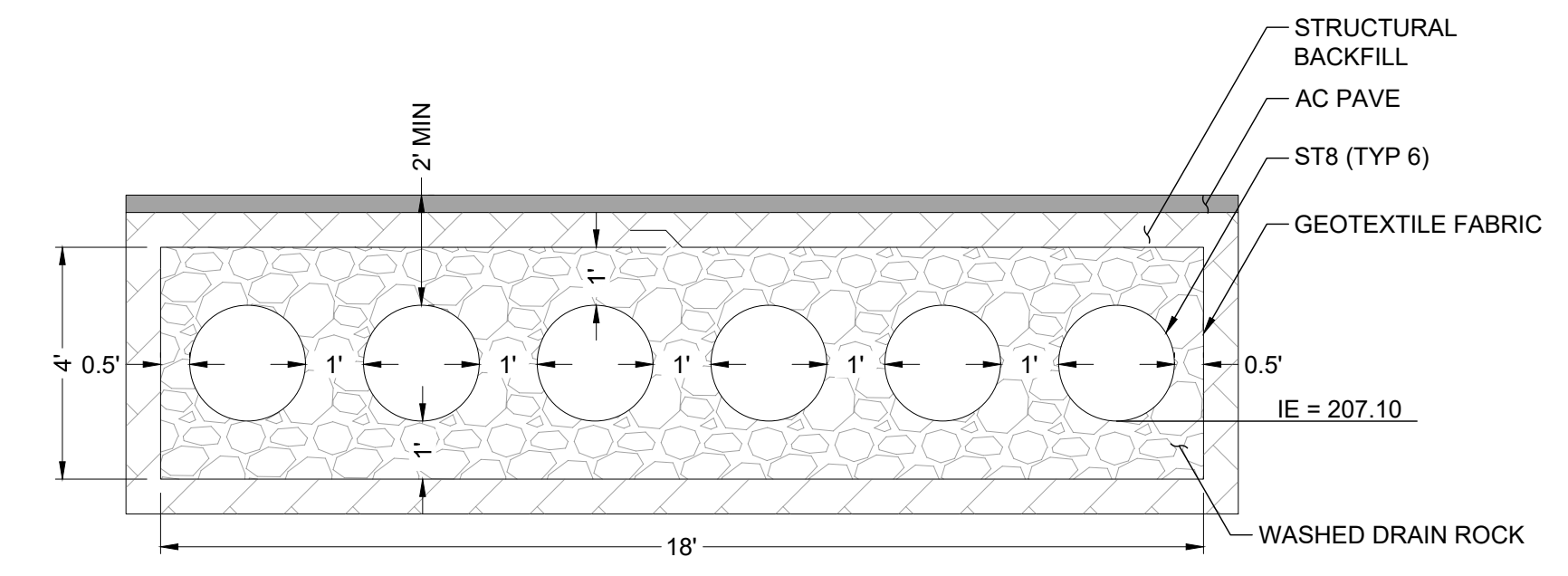


STORMWATER NOTES:

- ST1 CONTECH 2-CARTRAGE CB, SEE SHEET C3.2
- ST2 CONTECH 1-CARTRAGE CB, SEE SHEET C3.2
- ST3 TYPE 1 CATCH BASIN, SEE SHEET C3.2 DETAIL 3-1
- ST4 8" PVC NON PERF STORM PIPE
- ST5 150' LONG INFILTRATION TRENCH, SEE CROSS-SECTION A THIS SHEET
- ST6 170' LONG INFILTRATION TRENCH, SEE CROSS-SECTION B THIS SHEET
- ST7 120' LONG DEEP INFILTRATION TRENCH, SEE CROSS-SECTION B THIS SHEET
- ST8 24" PVC PERF STORM PIPE LENGTH OF TRENCH WITH 24" PVC PERF HEADER/FOOTER PIPES, S = 0.0 FT/FT
- ST9 4" PVC DRIAN PIPE, ROOF DRAINS TO BE PLUMBED DIRECTLY INTO INFILTRATION FACILITY
- ST10 ROOF DOWNSPOUT (TYP 40)
- ST11 INSTALL 8" PVC CULVERT, S = 0.00FT/FT

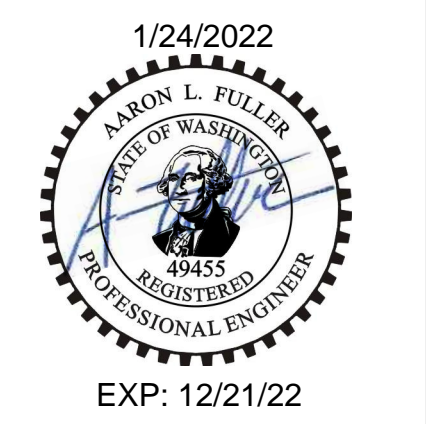


A INFILTRATION TRENCH CROSS-SECTION NTS



B INFILTRATION TRENCH CROSS-SECTION NTS

DRAWING TITLE:		GRADING & DRAINAGE PLAN	
SCALE:	1:50	CHECKED:	MF
DATE:	1/21/22	DRAWN:	SD
PROJECT NAME:		ALPINE MINI STORAGE & RV PARKING	



FULLER DESIGNS
 1101 KRESKY AVE
 CENTRALIA, WA 98531
 (360) 807-4420

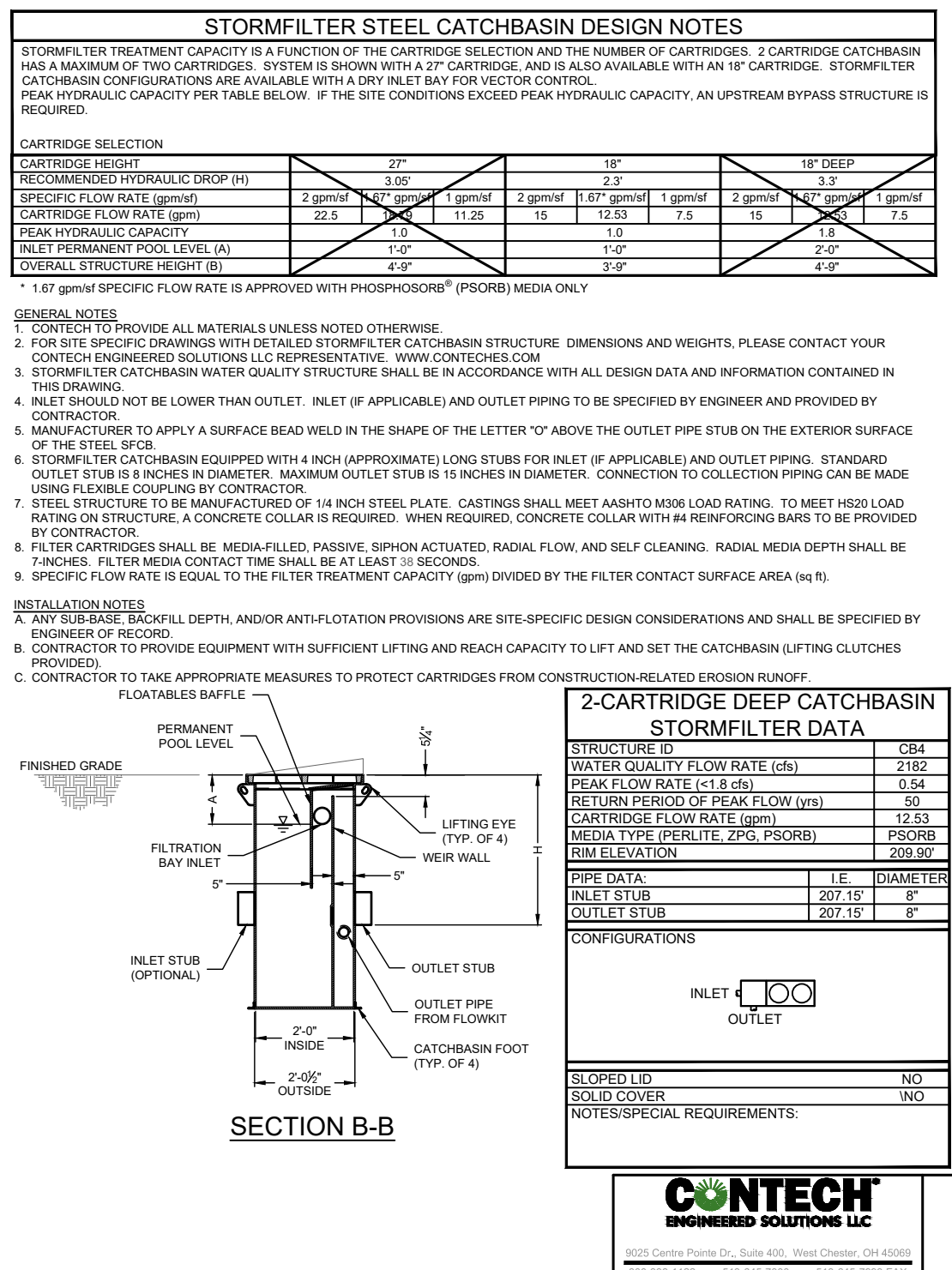
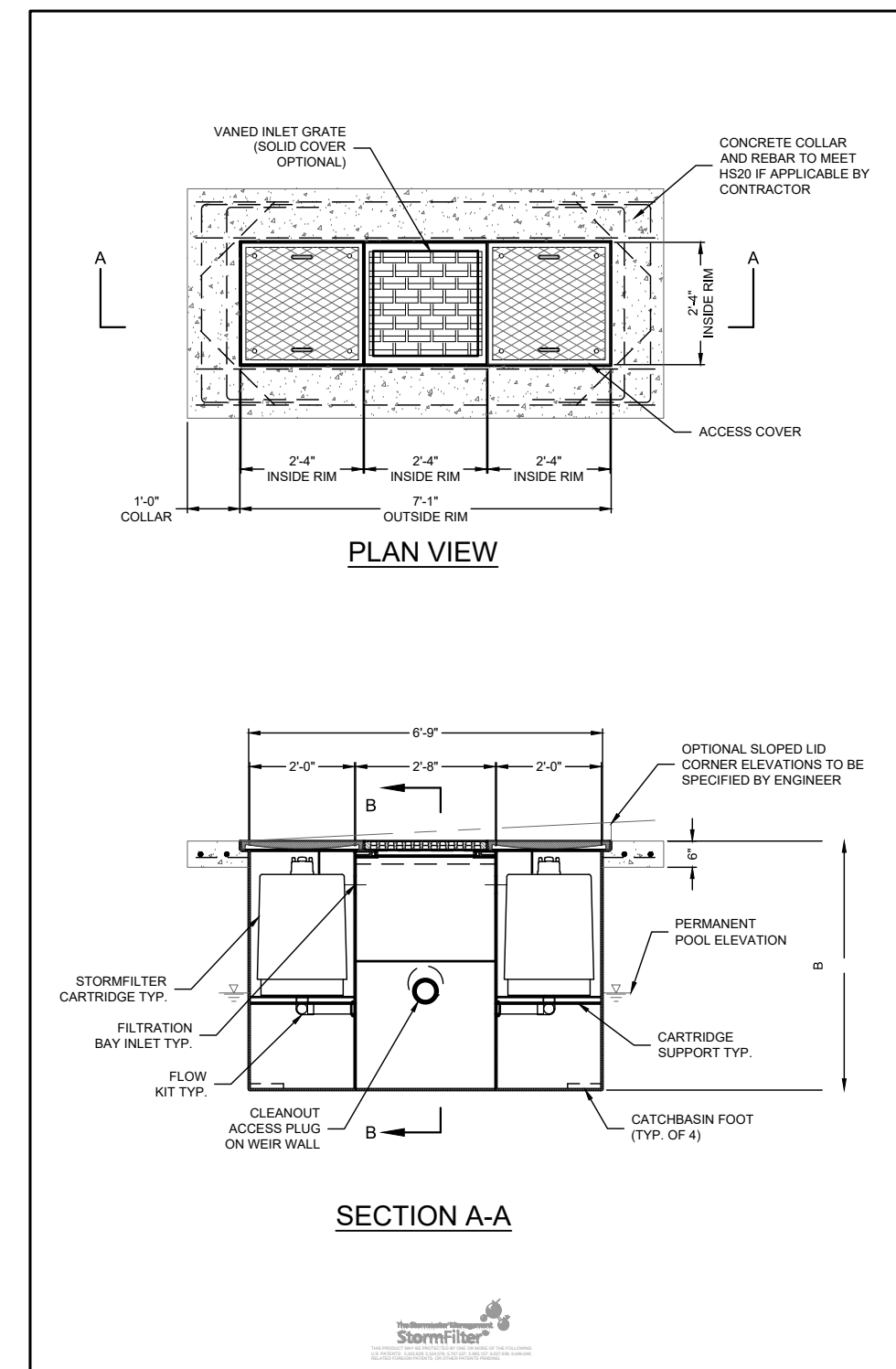
REV:	DESCRIPTION:	DATE:
1	ISSUED FOR CONSTRUCTION	1/21/22

APPROVED FOR CONSTRUCTION
 BY _____ DATE _____
 PUBLIC WORKS DEPARTMENT OR
 DESIGNATED CONSULTANT
 APPROVAL EXPIRES: _____

SECTION 10 TOWNSHIP 13N RANGE 02W

GENERAL NOTES (STORM DRAIN CONSTRUCTION)

- 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 CHanneled 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.



STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 2-CARTRIDGE CATCHBASIN HAS A MAXIMUM OF TWO CARTRIDGES. SYSTEM IS SHOWN WITH 2-2" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL. PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	2"	18"	18" DEEP
RECOMMENDED HYDRAULIC DROP (ft)	3.00	3.00	3.00
SPECIFIC FLOW RATE (gpm/ft)	2.00	1.00	1.00
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	7.5
PEAK HYDRAULIC CAPACITY	1.0	1.0	1.0
INLET PERMANENT POOL LEVEL (ft)	1.0'	1.0'	2.0'
OVERALL STRUCTURE HEIGHT (ft)	4.8'	3.0'	4.8'

* 1.67 gpm/ft SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY.

GENERAL NOTES

- CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE, DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONSULTANT-ENGINEERED SOLUTIONS LLC REPRESENTATIVE. WWW.CONTECHES.COM
- STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SPCS.
- STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
- STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M308 LOAD RATING. TO MEET M308 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
- FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 30 SECONDS.
- SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES

- ANY SUBBASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	C81
WATER QUALITY FLOW RATE (cfs)	675
PEAK FLOW RATE (cfs)	0.54
RETURN PERIOD OF PEAK FLOW (yrs)	50
CARTRIDGE HEIGHT (2" / 18" / 18" DEEP)	18
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	209.92
PIPE DATA:	1" I.E. DIAMETER
INLET STUB	207.15' 8"
OUTLET STUB	207.15' 8"

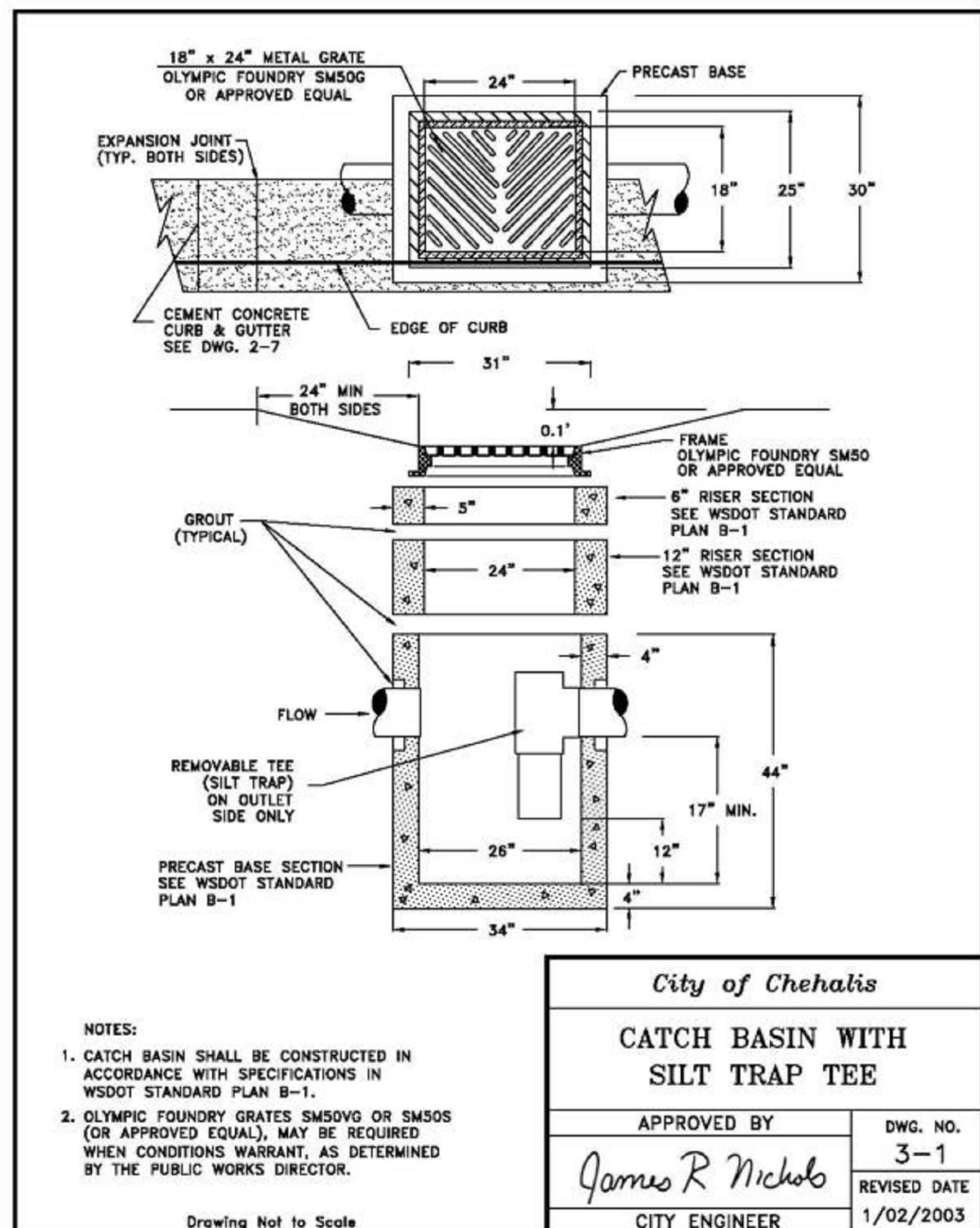
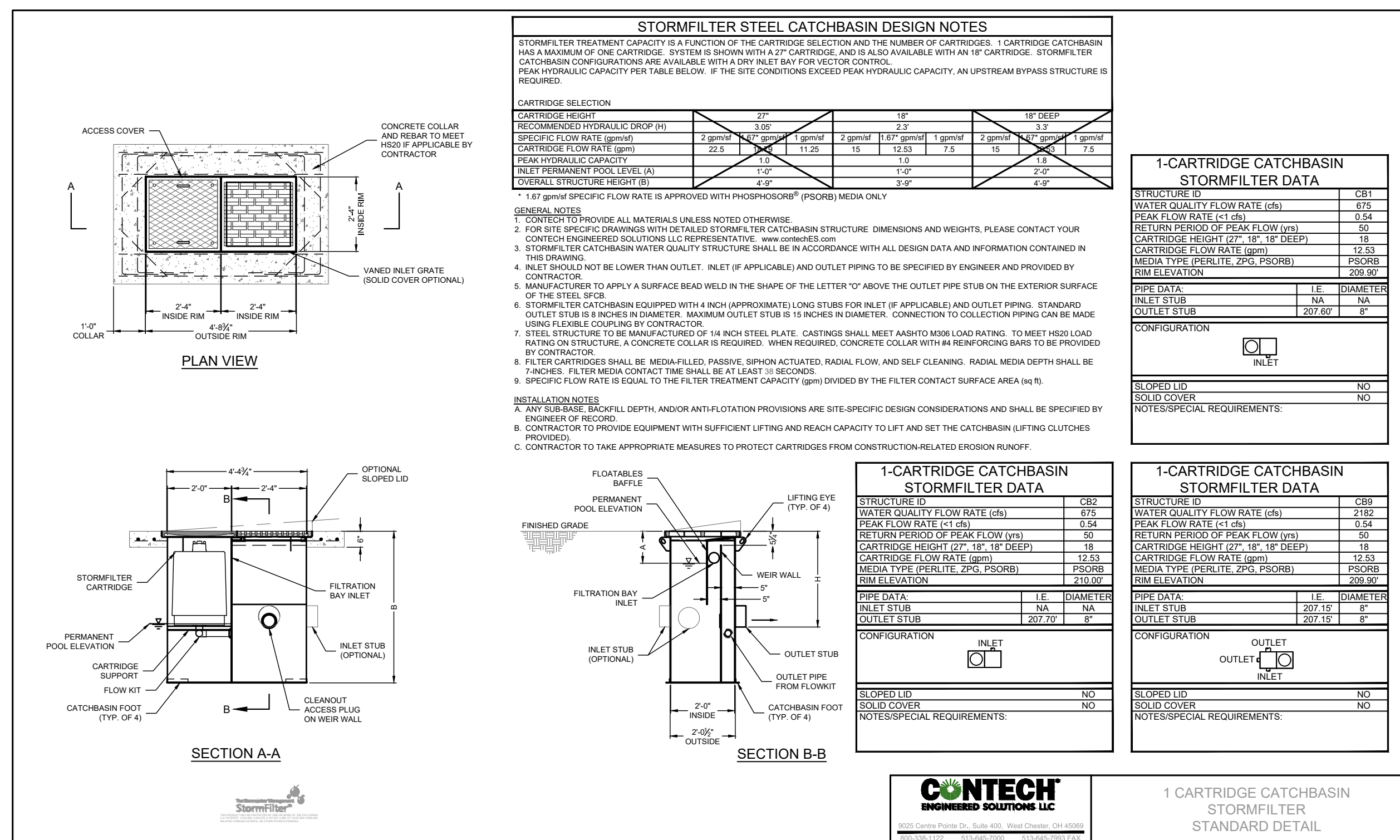
2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID	C87
WATER QUALITY FLOW RATE (cfs)	2162
PEAK FLOW RATE (cfs)	0.54
RETURN PERIOD OF PEAK FLOW (yrs)	50
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	209.92
PIPE DATA:	1" I.E. DIAMETER
INLET STUB	207.15' 8"
OUTLET STUB	207.15' 8"

2-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	C82
WATER QUALITY FLOW RATE (cfs)	2162
PEAK FLOW RATE (cfs)	0.54
RETURN PERIOD OF PEAK FLOW (yrs)	50
CARTRIDGE HEIGHT (2" / 18" / 18" DEEP)	18
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	209.92
PIPE DATA:	1" I.E. DIAMETER
INLET STUB	207.15' 8"
OUTLET STUB	207.15' 8"

CONTECH ENGINEERED SOLUTIONS LLC



STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 1-CARTRIDGE CATCHBASIN HAS A MAXIMUM OF ONE CARTRIDGE. SYSTEM IS SHOWN WITH 2-2" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL. PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	2"	18"	18" DEEP
RECOMMENDED HYDRAULIC DROP (ft)	3.00	3.00	3.00
SPECIFIC FLOW RATE (gpm/ft)	2.00	1.00	1.00
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	7.5
PEAK HYDRAULIC CAPACITY	1.0	1.0	1.0
INLET PERMANENT POOL LEVEL (ft)	1.0'	1.0'	2.0'
OVERALL STRUCTURE HEIGHT (ft)	4.8'	3.0'	4.8'

* 1.67 gpm/ft SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY.

GENERAL NOTES

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INSTALLATION NOTES

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1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	C81
WATER QUALITY FLOW RATE (cfs)	675
PEAK FLOW RATE (cfs)	0.54
RETURN PERIOD OF PEAK FLOW (yrs)	50
CARTRIDGE HEIGHT (2" / 18" / 18" DEEP)	18
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	209.92
PIPE DATA:	1" I.E. DIAMETER
INLET STUB	207.15' 8"
OUTLET STUB	207.15' 8"

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID	C89
WATER QUALITY FLOW RATE (cfs)	2162
PEAK FLOW RATE (cfs)	0.54
RETURN PERIOD OF PEAK FLOW (yrs)	50
CARTRIDGE HEIGHT (2" / 18" / 18" DEEP)	18
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	PSORB
RIM ELEVATION	209.92
PIPE DATA:	1" I.E. DIAMETER
INLET STUB	207.15' 8"
OUTLET STUB	207.15' 8"

CONTECH ENGINEERED SOLUTIONS LLC

City of Chehalis

CATCH BASIN WITH SILT TRAP TEE

APPROVED BY: *James R. Nichols* DWG. NO. 3-1

CITY ENGINEER REVISOR DATE 1/02/2003

APPROVED FOR CONSTRUCTION

BY: _____ DATE: _____

PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

APPROVAL EXPIRES: _____

DRAINAGE DETAILS

CHECKED: MF

DRAWN: SD

DATE: 1/21/22

SCALE: N/A

PROJECT NAME: ALPINE MINI STORAGE & RV PARKING

1/24/2022

ANON L. FULLER

STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER

EXP: 12/21/22

FULLER DESIGNERS

1101 KRESKY AVE

CENTRALIA, WA 98531

(360) 807-4420

DATE: 1/21/22

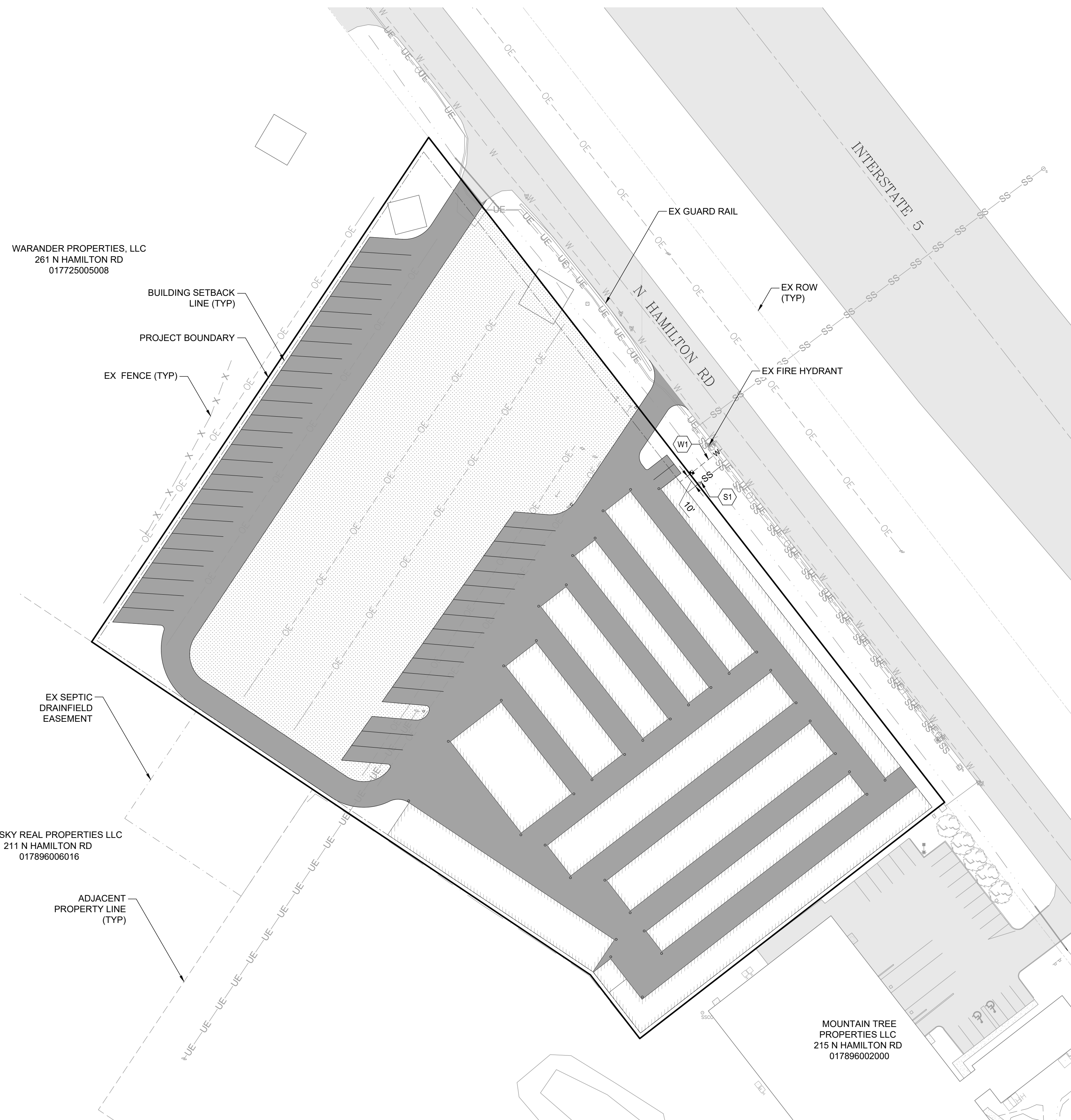
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REV: 1

C3.2

6 OF 8

SECTION 10 TOWNSHIP 13N RANGE 02W



SANITARY SEWER NOTES:

(S1) SS SEWER LATERAL AND CLEANOUT, SHEET C4.2 DETAIL 5-10

WATER NOTES:

(W1) 3/4" SINGLE WATER SERVICE, SHEET C4.2 DETAIL 4-2

NOTES TO CONTRACTOR:

- CONTRACTOR TO VERIFY DEPTH OF EXISTING WATER AND SEWER MAIN PRIOR TO LATERAL INSTALL.

WARANDER PROPERTIES, LLC
261 N HAMILTON RD
017725005008

BUILDING SETBACK
LINE (TYP)
PROJECT BOUNDARY
EX FENCE (TYP)

EX SEPTIC
DRAINFIELD
EASEMENT

BLUE SKY REAL PROPERTIES LLC
211 N HAMILTON RD
017896006016

ADJACENT
PROPERTY LINE
(TYP)

MOUNTAIN TREE
PROPERTIES LLC
215 N HAMILTON RD
017896002000

UTILITY PLAN

DRAWING TITLE:

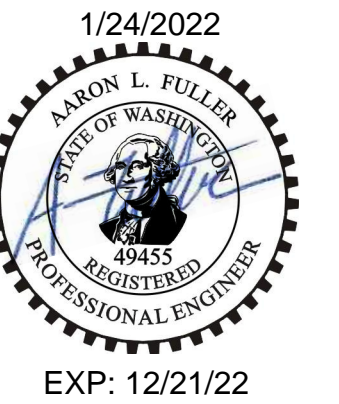
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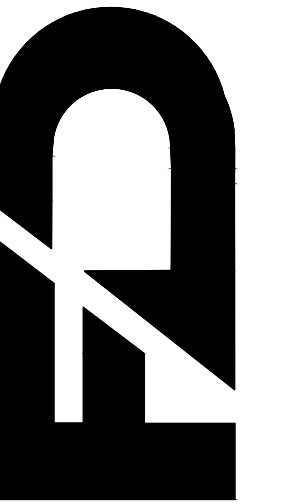
DATE: 1/21/22

SCALE: 1:50

PROJECT NAME: ALPINE MINI STORAGE & RV PARKING



1/24/2022
AARON L. FULLER
STATE OF WASHINGTON
49455
REGISTERED
PROFESSIONAL ENGINEER
EXP: 12/21/22

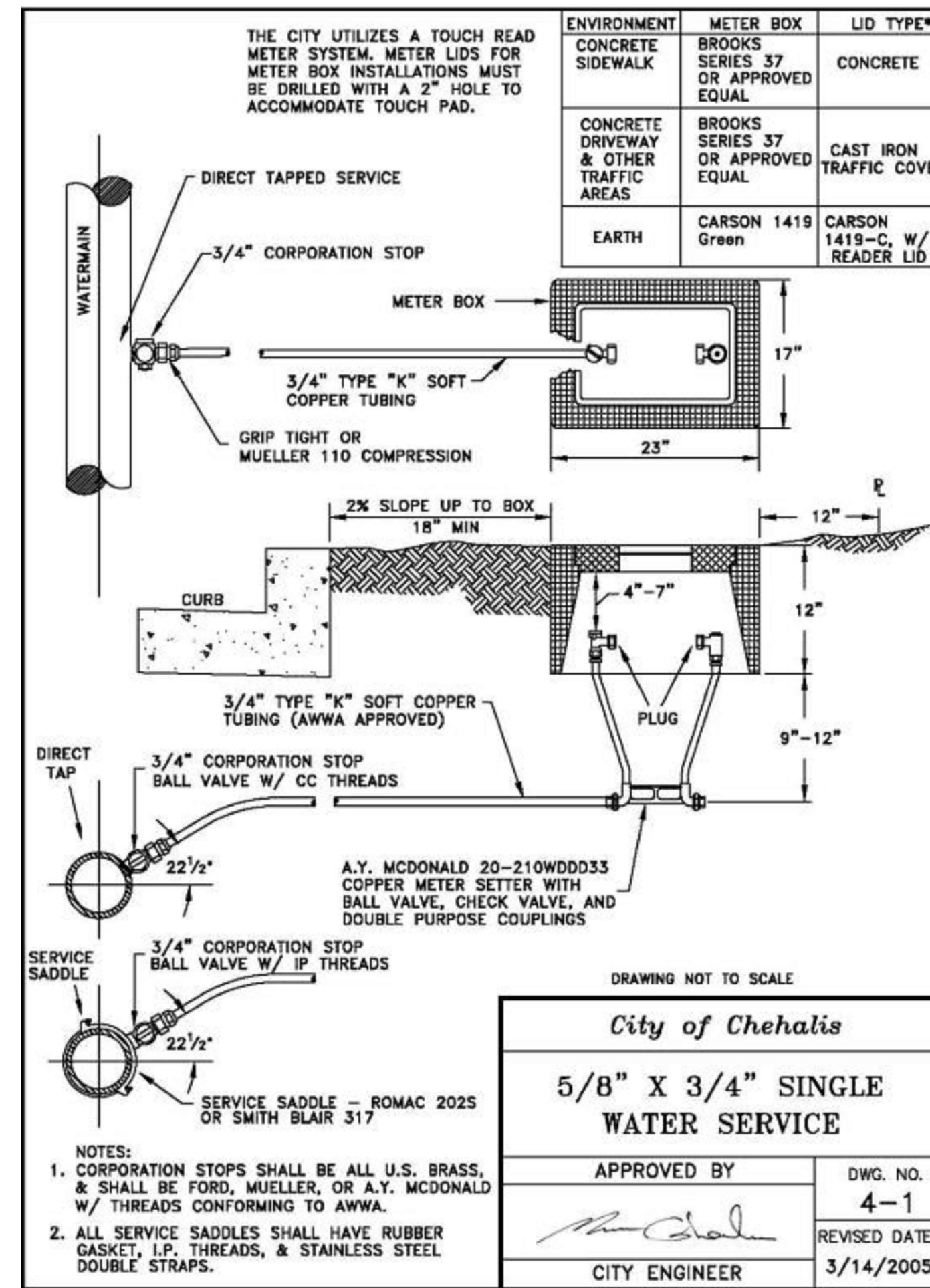
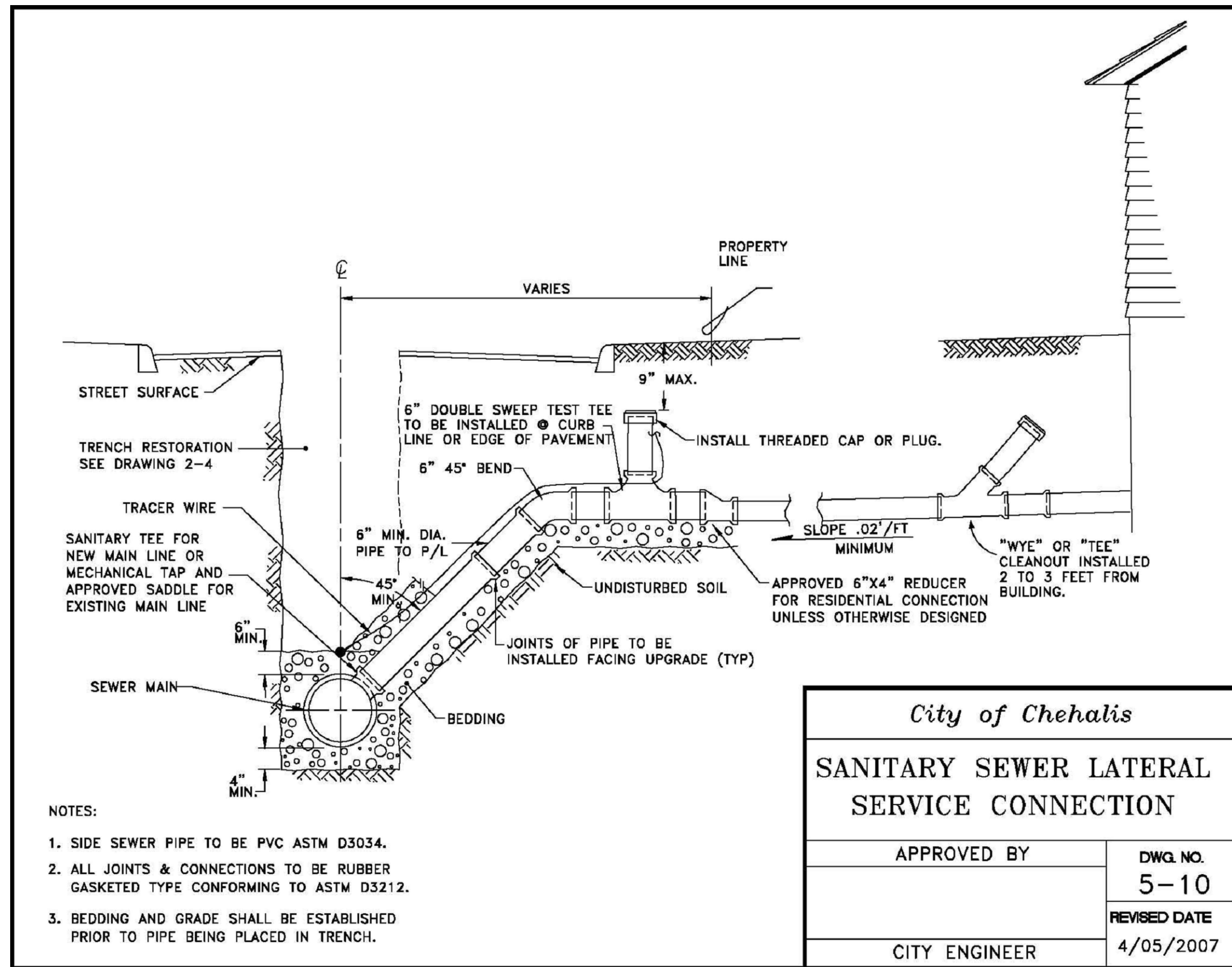


REV.	DESCRIPTION:	DATE:
1	ISSUED FOR CONSTRUCTION	1/21/22

APPROVED FOR CONSTRUCTION
BY _____ DATE _____
PUBLIC WORKS DEPARTMENT OR
DESIGNATED CONSULTANT
APPROVAL EXPIRES: _____

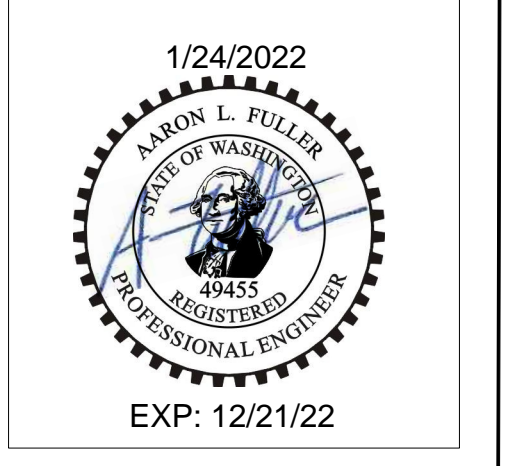
C4.1
7 OF 8

SECTION 10 TOWNSHIP 13N RANGE 02W



UTILITY DETAILS

DATE:	1/21/22
CHECKED:	MF
DRAWN:	SD
SCALE:	N/A
PROJECT NAME:	ALPINE MINI STORAGE & RV PARKING



FULLER DESIGNS
 1101 KRESKY AVE
 CENTRALIA, WA 98531
 (360) 807-4420

REV:	DESCRIPTION:	DATE:
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