

**PROJECT INFORMATION:**

APPLICANT: F & L ADVENTURES LLC  
243 ALDERWOOD DR  
CHEHALIS, WA 98532

SITE ADDRESS: 32, 51, & 59 SE WASHINGTON AVE,  
CHEHALIS, WA 98532

PARCEL NUMBER: 005411002000, 005411005001, &  
005411002000

ZONING (CITY): CO – COMMERCIAL OFFICE / MIXED USE  
CG – GENERAL COMMERCIAL

LOTS: 3 EXISTING & 1 PROPOSED

SITE SOILS: LACAMAS SILT LOAM, 0 TO 3 PERCENT  
SLOPES, LACAMAS SILT LOAM, 3 TO 8 PERCENT  
SLOPES, SCAMMAN SILTY CLAY LOAM, 5 TO 15  
PERCENT SLOPES

WATER: CITY MAIN – METERED  
SANITARY SEWER: CITY MAIN – GRAVITY

GRADING 93 CU.YD.CUT(NET) 895.65 CUT – 802.73 FILL

PARKING STALLS 40

**SURVEY INFORMATION:**

**LEGAL DESCRIPTION**  
STATUTORY WARRANTY DEED  
AFN 3423257 DATED NOV. 26, 2014  
LOT 13 THROUGH 16, BLOCK 5, HENDERSON LAND COMPANY  
FIRST ADDITION TO THE CITY OF CHEHALIS, AS RECORDED IN  
VOLUME 1 OF PLATS, PAGE 87.

**BASIS OF BEARING**  
BEARING ARE GRID NORTH BASED ON TIES TO WSDOT  
MONUMENTS GP21005-31, CHE-6, AND CHE-8

**GEOTECHNICAL INFORMATION:**

A GEOTECHNICAL REPORT WAS NOT PREPARED FOR THIS  
PROJECT. IN LIEU OF A REPORT ALL CONSTRUCTION SHALL  
COMPLY WITH STANDARD SPECIFICATIONS.

**TOPOGRAPHIC INFORMATION:**

TOPOGRAPHIC INFORMATION DEPICTED IN THESE DRAWINGS WAS  
PROVIDED BY LEWIS COUNTY GIS DATA & BLUHM & ASSOCIATES  
LAND SURVEYORS, INC. TOPOGRAPHIC INFORMATION WAS NOT  
FIELD VERIFIED BY FULLER DESIGNS.

**LEGEND:**

**LINETYPES:**

EXISTING	PROPOSED	DESC.
---	---	LOT LINE
---	---	EASEMENT
-X-X-	-X-X-	FENCING
---	---	DITCH/WETLAND
---	---	ROAD CENTERLINE
---	---	RIGHT OF WAY
---	---	EDGE OF PAVEMENT
---	---	EDGE OF GRAVEL
---	---	BUILDING
XX	XX	CONTOUR LINE (MAJOR)
---	---	CONTOUR LINE (MINOR)
E	E	ELECTRICAL UNDERGROUND
OE	OE	ELECTRICAL OVERHEAD
OT	OT	TELECOMMUNICATION
G	G	GAS MAIN
W	W	WATER MAIN
SS	SS	SEWER MAIN
FM	FM	FORCE MAIN
ST	ST	STORM MAIN
---	---	SILT FENCE
---	---	PROJECT AREA

**SYMBOLS:**

EXISTING	PROPOSED	DESC.
○	○	SPOT ELEVATION
○	○	SEWER MANHOLE
○	○	STORM MANHOLE
■	■	CATCH BASIN
□	□	CLEAN OUT
○	○	WELL
□	□	WATER METER BOX
○	○	VALVE
○	○	HYDRANT
○	○	RPBA
○	○	POLE
○	○	TREE
→	→	FLOW DIRECTION ARROW

**HATCH:**

EXISTING	PROPOSED	DESC.
■	■	ASPHALT PAVEMENT
■	■	GRAVEL AREA
■	■	CONCRETE SIDEWALK
■	■	LANDSCAPED AREA
■	■	SAWCUT

**ABBREVIATIONS:**

AC	ASPHALT CONCRETE
BCR	BEGIN CURB RETURN
BM	BENCHMARK
BVCS	BEGIN VERTICAL CURVE STATION
BCVE	BEGIN VERTICAL CURVE ELEVATION
CATV	CABLE TELEVISION
CB	CATCH BASIN
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEAN OUT
CY	CUBIC YARD
°	DEGREES
∅	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
HVF	HIGH VISIBILITY FENCE
IE	INVERT ELEVATION
K	CALCULATED CURVE VALUE
L	LENGTH
LCV	LENGTH VERTICAL CURVE
LF	LINEAR FEET
M	METER
MH	MAN HOLE
MJ	MECHANICAL JOINT
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
S	SLOPE
SE	SPOT ELEVATION
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
TOW	TOP OF WALL
TYP	TYPICAL
UGP	UNDERGROUND POWER
W	WATER
WM	WATER METER
WV	WATER VALVE
±	APPROXIMATELY
%	PERCENT
Δ	DELTA

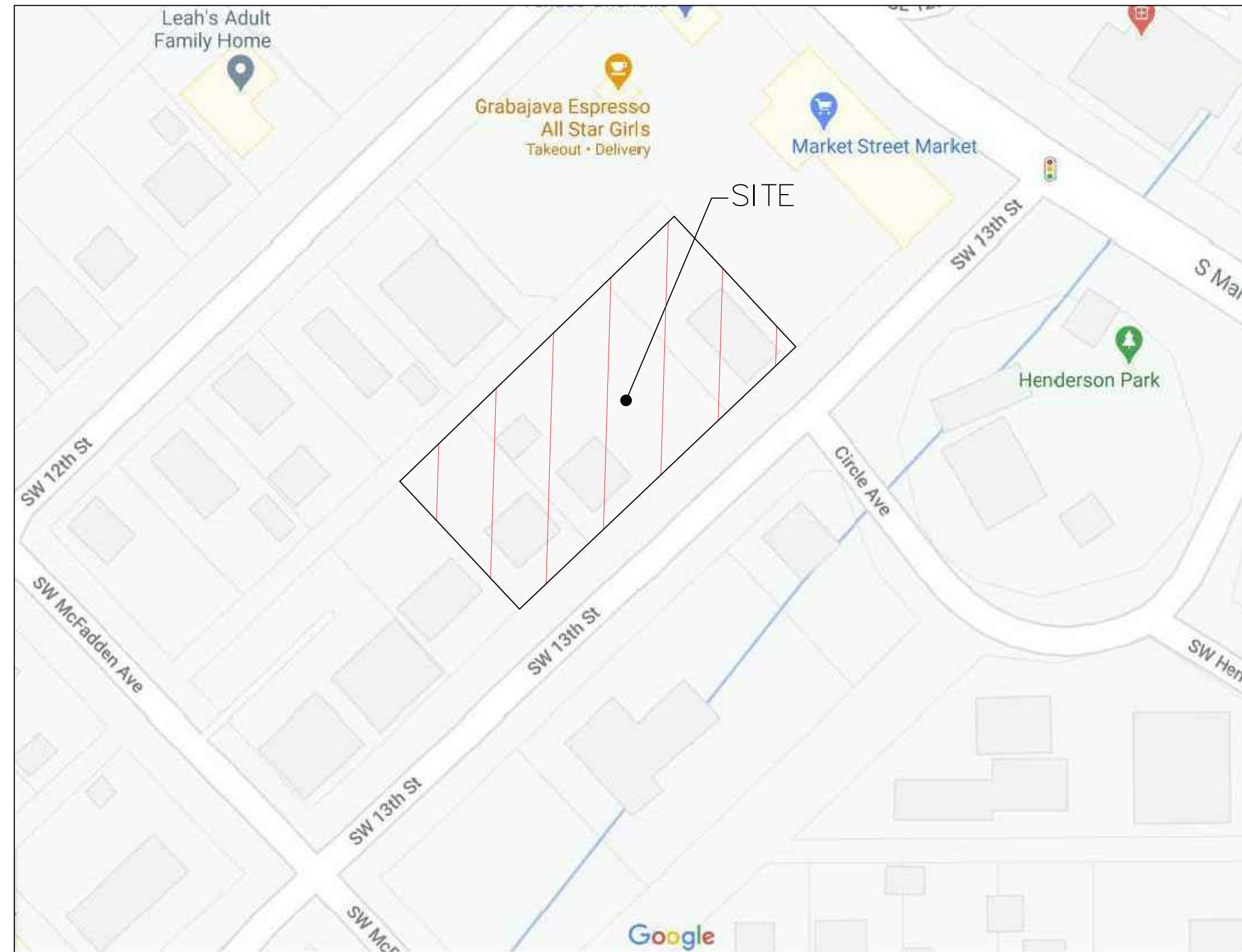
**DRAWING CONTENTS:**

- C0.1 – CIVIL COVER SHEET
- C1.1 – OVERALL SITE AND TESC PLAN
- C1.2 – FRONTAGE AND ALLEY IMPROVEMENTS
- C1.3 – EROSION CONTROL NOTES AND DETAILS
- C1.4 – SITE AND PAVING DETAILS
- C2.1 – GRADING AND DRAINAGE PLAN
- C2.2 – GRADING/DRAINAGE NOTES AND DETAILS
- C3.1 – UTILITY PLAN
- C3.2 – UTILITY NOTES AND DETAILS

# LONE PINE MEDICAL CENTER

SECTION 32 TOWNSHIP 14N RANGE 02W W.M.  
CHELHALIS, WASHINGTON

**VICINITY MAP**



**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.

Approved For Construction

City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
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, 2020 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.

DRAWING TITLE:

SCALE: N/A

PROJECT NAME:

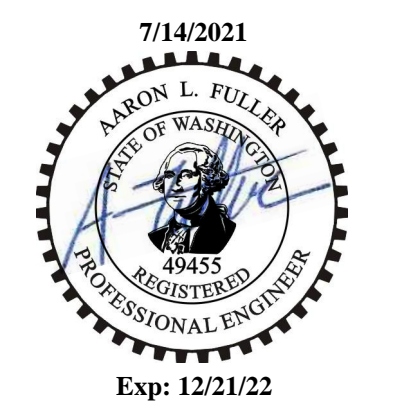
CIVIL COVER SHEET

DATE: 07/12/21

DRAWN: TY

CHECKED: AF

LONE PINE MEDICAL CENTER



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

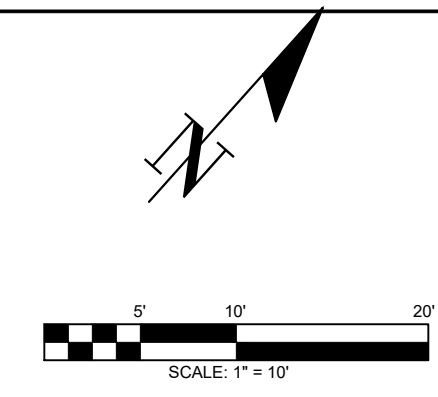


REV.	DESCRIPTION:	DATE:
0	FOR CONSTRUCTION	07/05/21

C0.1  
1 OF 9



SECTION 32 TOWNSHIP 14N RANGE 02W W.M.



**TESC NOTES:**

- (T1) INSTALL SILT FENCE. SEE DETAIL 3-4 SHEET C1.3.
- (T2) INSTALL 100' LONG CONSTRUCTION ENTRANCE. SEE DETAIL 3-2 SHEET C1.3.
- (T3) INSTALL INLET PROTECTION TO EX CATCH BASIN. SEE DETAIL 3-5 SHEET C1.3.
- (T4) INSTALL HVF TREE PROTECTION BARRIER TO EX TREE

**DEMOLITION:**

- (D1) SIDEWALK, CURB AND GUTTER TO BE DEMOLISHED AND REPLACED.
- (D2) EXISTING LOT LINES TO BE REMOVED, PREPARED BY OTHERS

**SITE:**

- (S1) HANDICAP PARKING SEE DETAIL SP1, SP2, SP3, AND SP4 SHEET C1.4
- (S2) HANDICAP RAMP SEE DETAIL SP1 SHEET C1.4
- (S3) TYPICAL PARKING SPACE SEE THIS SHEET DETAIL 1 SHEET C1.1
- (S4) INSTALL NEW SIDEWALK AND CURB SEE DETAIL 2-7, 2-9, AND 2-10 SHEET C1.4

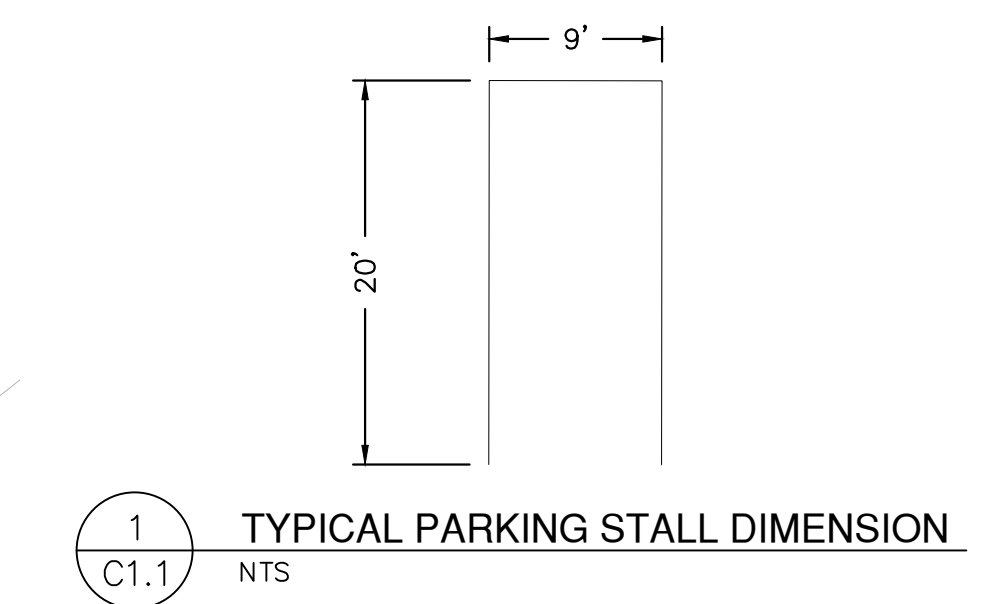
**NOTES TO CONTRACTOR:**

1. ALL EXPOSED SOIL SURFACES SHALL BE SEEDED WITH AN EROSION CONTROL SEED MIX OR HYDROSEEDING IF NOT WORKED WITHIN 7 CALENDAR DAYS FROM MAY 1 TO SEPTEMBER 30. SOIL SHALL BE COVERED WITHIN 2 DAYS FROM OCTOBER 1 TO APRIL 30.
2. SEEDED AREAS WILL BE COVERED WITH MULCH, HAY OR OTHER PROTECTIVE COVERING APPROVED BY THE ENGINEER TO PREVENT WASHOUT DURING RAIN EVENTS.
3. CONTRACTOR SHALL APPLY WATER TO GRAVEL SURFACES DURING CONSTRUCTION TO MINIMIZE FUGITIVE DUST.
4. ROUTINE INSPECTION AND MAINTENANCE OF ALL INSTALLED EROSION AND SEDIMENT CONTROL BMPs, ESPECIALLY AFTER STORMS, IS REQUIRED.
5. PERIODIC STREET CLEANING MAY BE NECESSARY TO REMOVE ANY SEDIMENT TRACKED OFF THE SITE.
6. IN THE EVENT PROPOSED BMPs FAIL, APPROPRIATE MEASURES MUST BE TAKEN TO STOP SEDIMENTS FROM

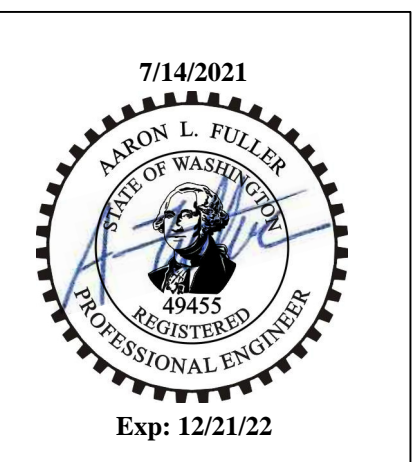
**PARKING CALCULATIONS:**

PER MU CODE CH 17.78 B080 PARKING OUT PATIENT CLINIC /MEDICAL SERVICES 5/1000 CSF  
 $5200/1000 = 5 \times 5 = 25$  MIN. PARKING SPACES  
 40 PARKING SPACES PROVIDED

ADJACENT PROPERTY NOT PART OF PROJECT



DRAWING TITLE: <b>OVERALL SITE TESC PLAN</b>		CHECKED: <b>AF</b>
SCALE: <b>1" = 10'</b>	DATE: <b>07/12/21</b>	DRAWN: <b>TY</b>
PROJECT NAME: <b>LONE PINE MEDICAL CENTER</b>		



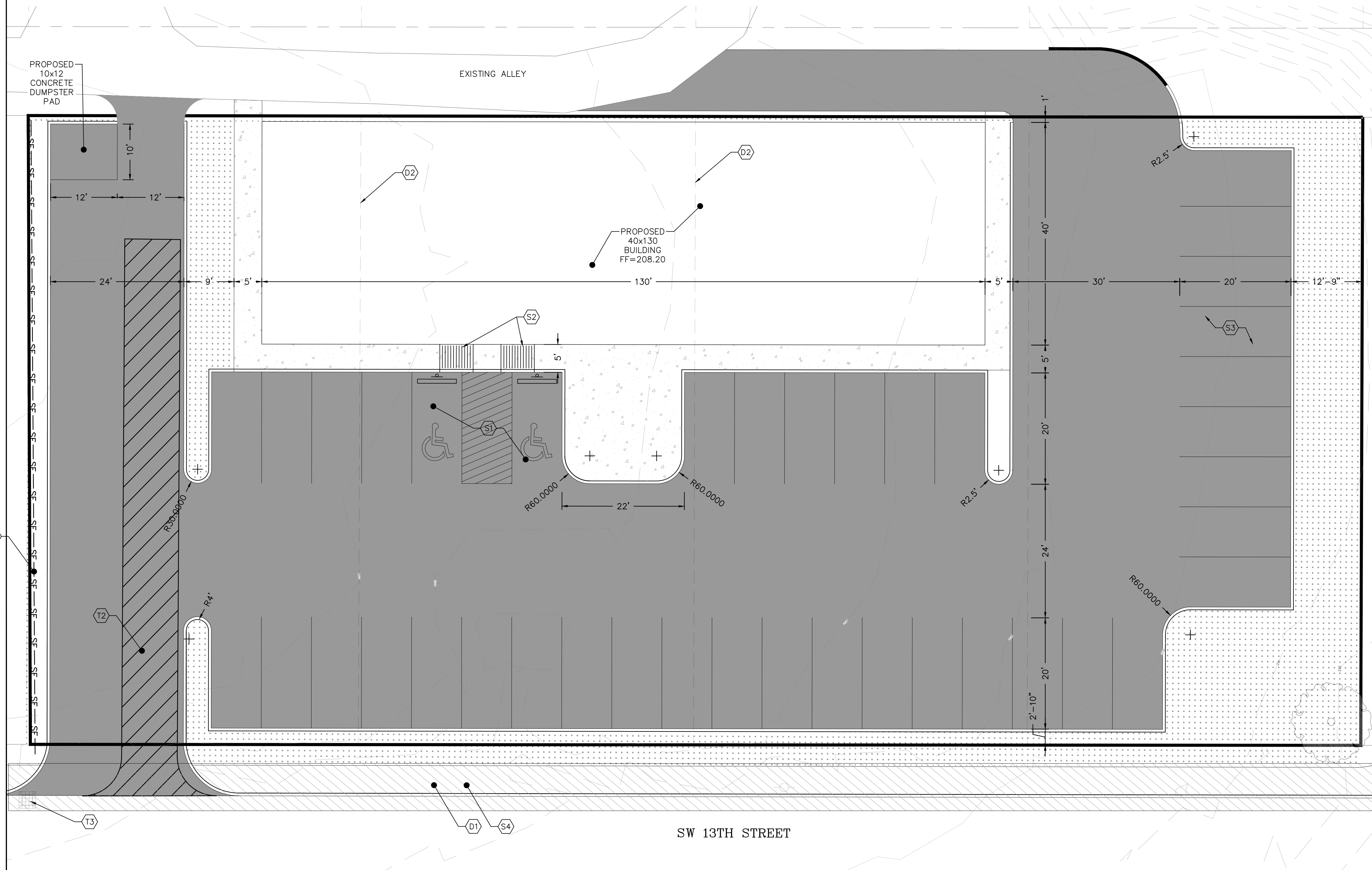
**FULLER DESIGNS**  
 1101 KRESKY AVE  
 CENTRALIA, WA 98531  
 (360) 807-4420

REV.	DESCRIPTION	DATE
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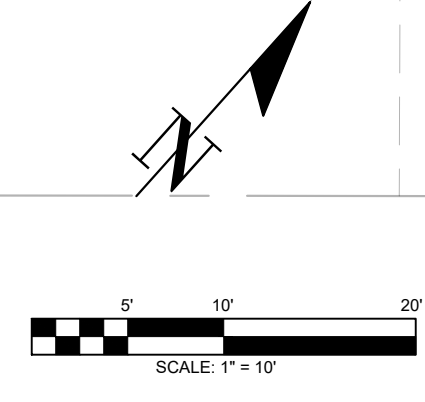
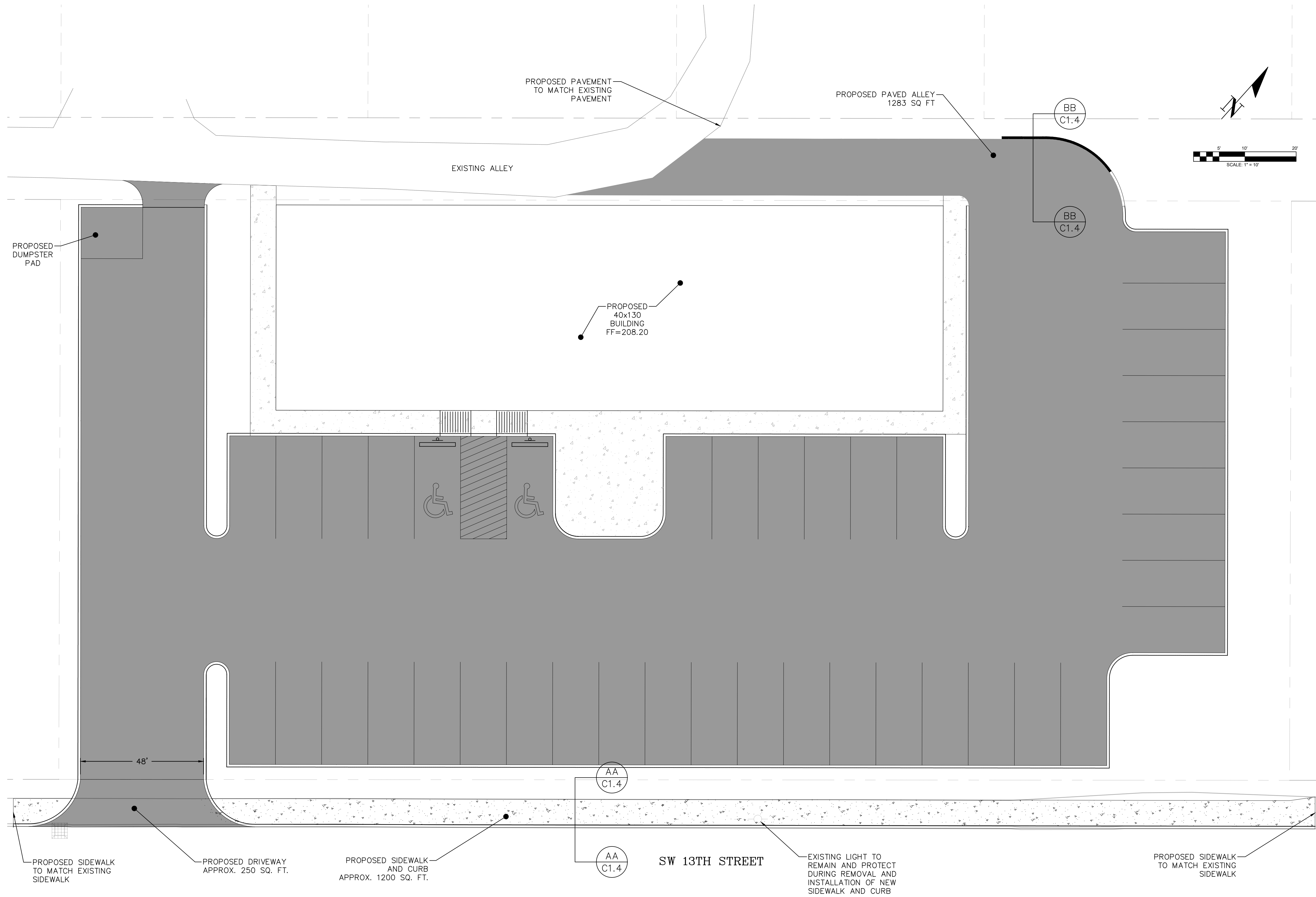
Approved For Construction  
 City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
 Approval expires 1 year from above date

**C1.1**

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SECTION 32 TOWNSHIP 14N RANGE 02W W.M.



- STREET CONSTRUCTION GENERAL NOTES**
1. All workmanship and materials will be in accordance with City Standards and the most recent edition of the State of Washington Standard Specifications for Road, Bridge and Municipal Construction.
  2. 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.
  3. 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.
  4. 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.
  5. Compaction of subgrade, rock and asphalt will be in accordance with the Standard Specifications.
  6. 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.
  7. Testing and sampling frequencies are described in the Public Work Standards.
  8. 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.

DRAWING TITLE: **FRONTAGE AND ALLEY IMPROVEMENTS**

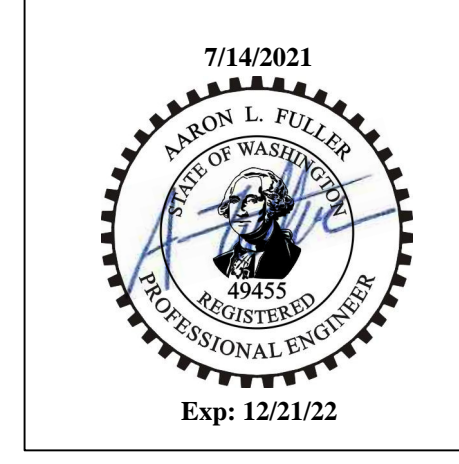
DATE: 07/12/21

SCALE: 1" = 10'

CHECKED: AF

DRAWN: TY

PROJECT NAME: **LONE PINE MEDICAL CENTER**



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

REV.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	07/05/21

Approved For Construction

City Engineer \_\_\_\_\_ Date \_\_\_\_\_

Approval expires 1 year from above date

**C1.2**

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SECTION 17 TOWNSHIP 14N RANGE 02W

STANDARD EROSION CONTROL NOTES

1. EROSION CONTROL MEASURES WILL BE IN PLACE PRIOR TO THE BEGINNING OF CONSTRUCTION. A REPRESENTATIVE FROM THE PUBLIC WORKS DEPARTMENT 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 CITY STORMWATER 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 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 FORTY-EIGHT (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, RESEEDED, AND FERTILIZED AS REQUIRED.
6. TRACKING OF SOIL OFF-SITE WILL NOT BE ALLOWED. IF ANY SOIL IS TACKED BEYOND THE LIMITS OF THE SITE, IT WILL BE REMOVED BEFORE THE END OF 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 DOWN-SLOPE OF MORE THAN FIVE (5) 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 DEWATERING 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 DEWATERING 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 DISTURBED AREAS IS PROVIDED AND THAT GROWTH OF VEGETATION IS ESTABLISHED. SEED AND SOD APPLICATIONS WILL BE CONDUCTED IN ACCORDANCE WITH 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 PUBLIC WORKS DEPARTMENT WILL BE NOTIFIED FOR FINAL INSPECTION AND APPROVAL.

WSDOE - STANDARD NOTES

APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES).

THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.

THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.

THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.

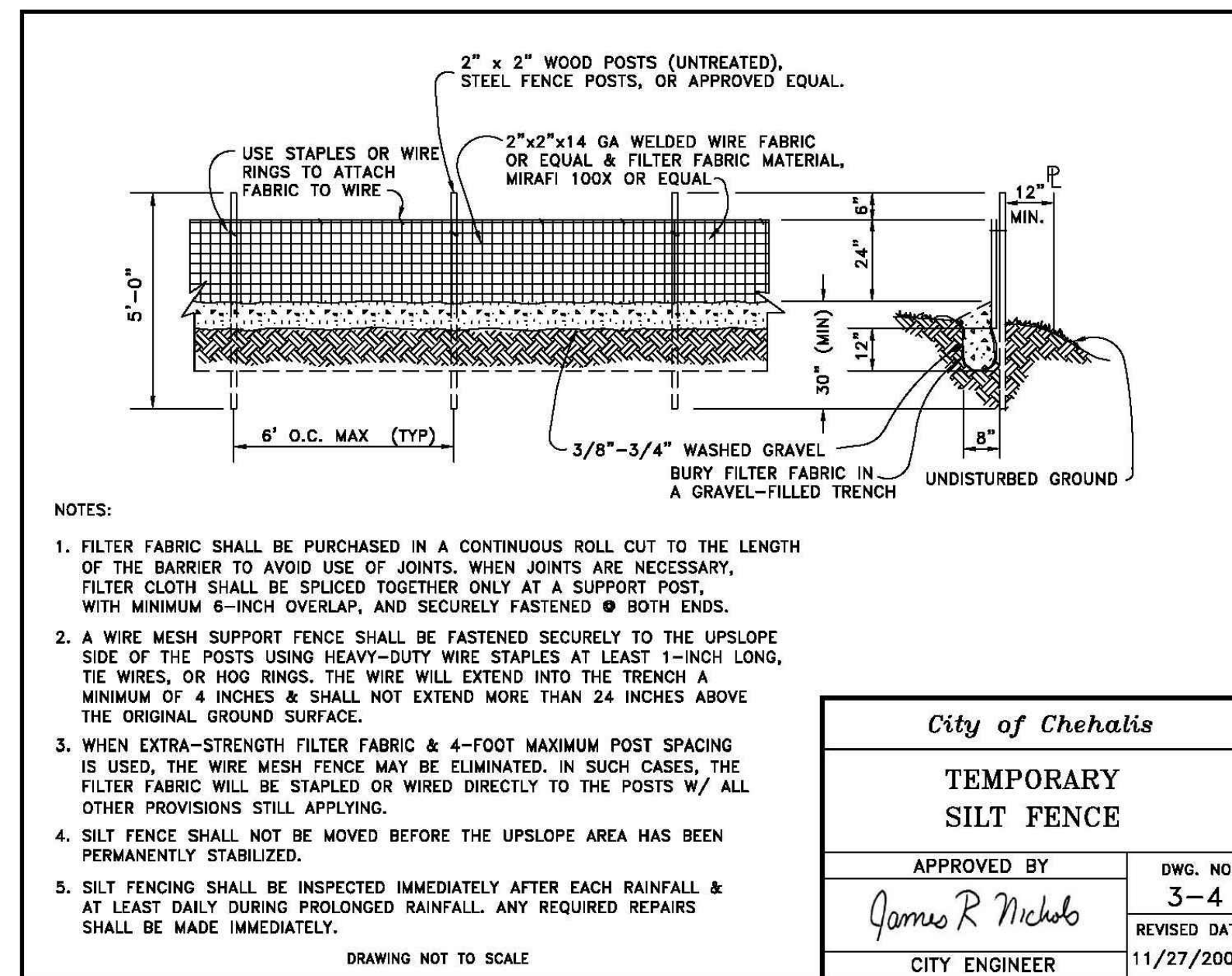
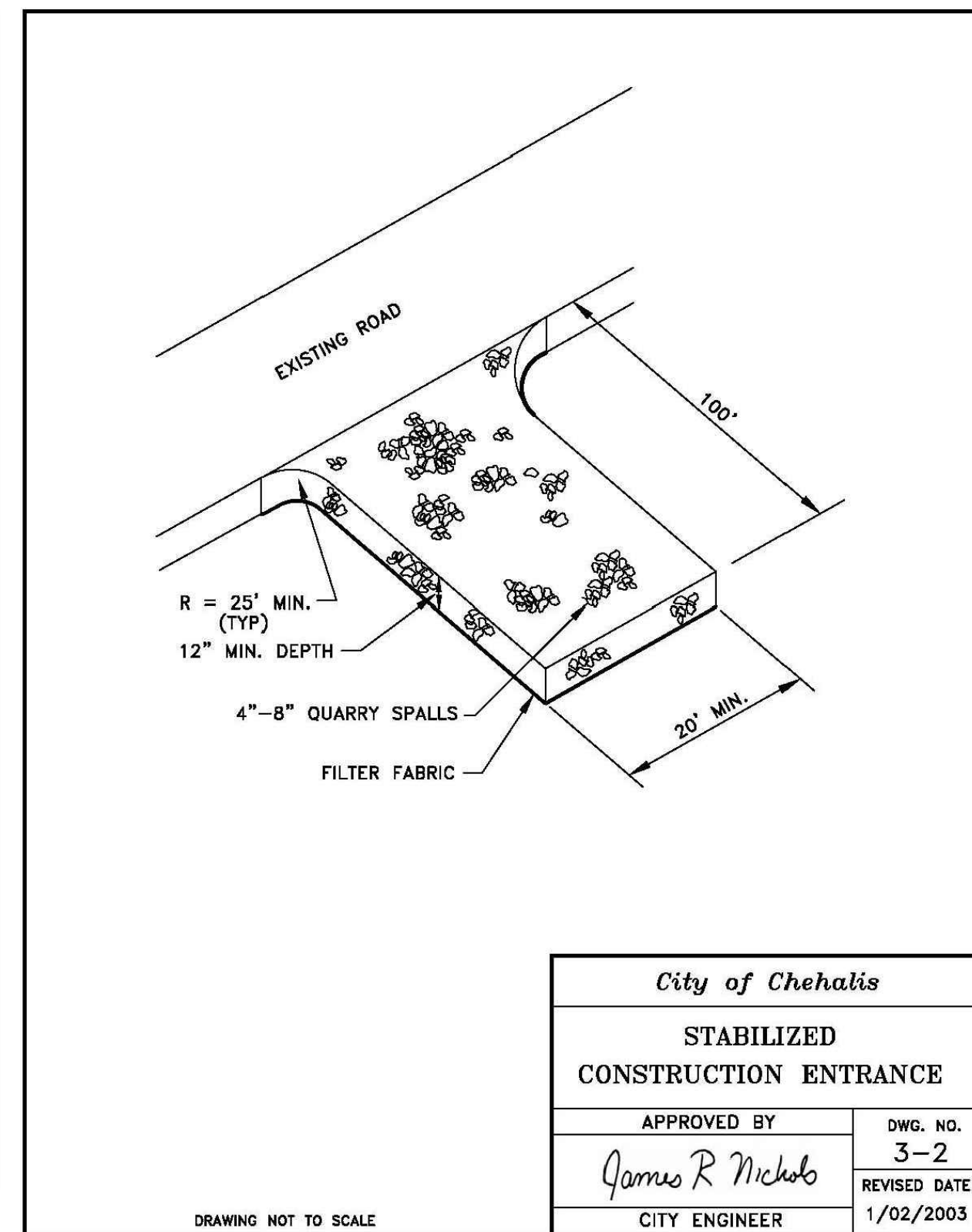
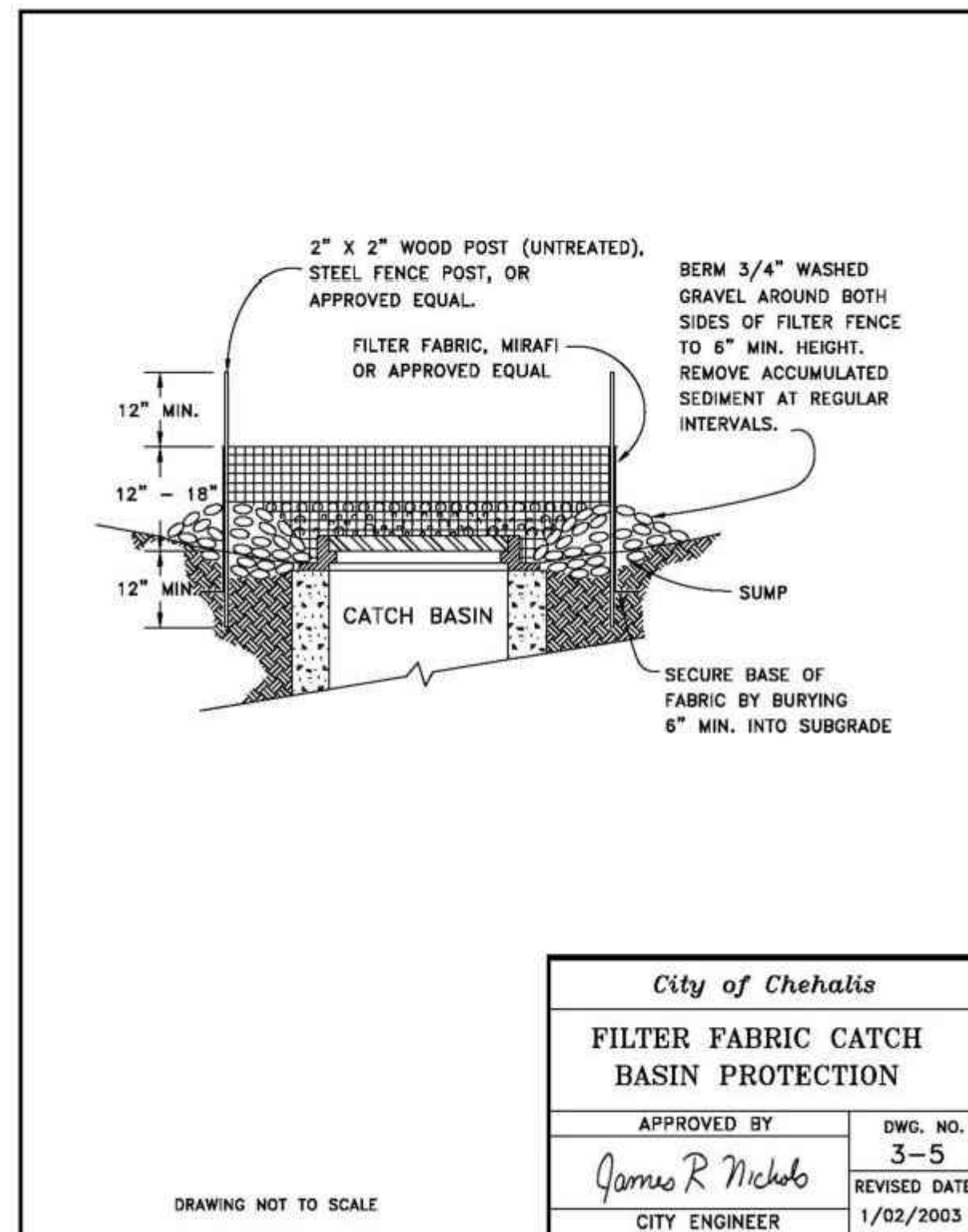
THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.

THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.

THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A MAJOR STORM EVENT.

AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.



Approved For Construction  
 City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
 Approval expires 1 year from above date

DRAWING TITLE: EROSION CONTROL NOTES AND DETAILS		CHECKED: AF
SCALE: N.T.S.	DATE: 07/12/21	DRAWN: TY
PROJECT NAME: LONE PINE MEDICAL CENTER		



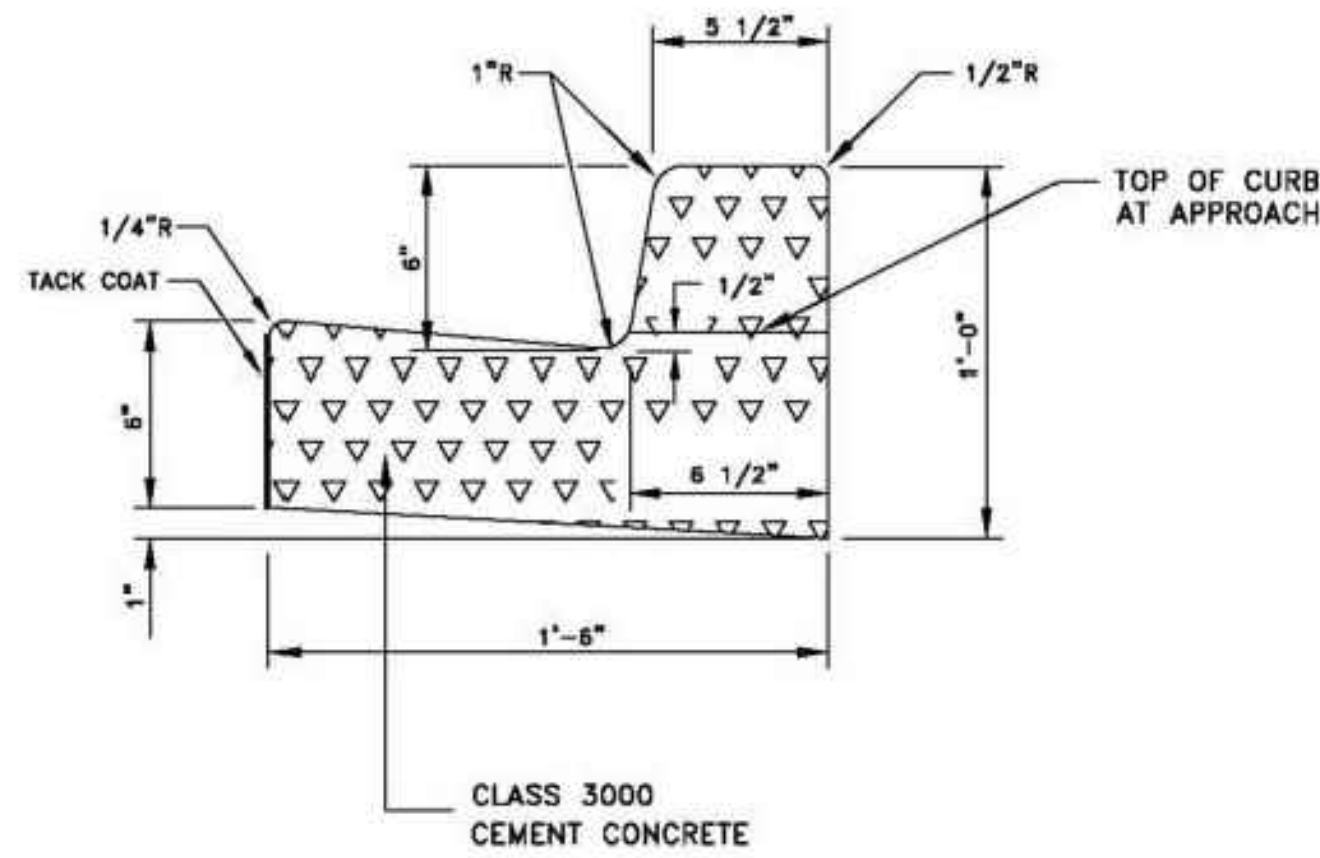
FULLER DESIGNS  
 1101 KRESKY AVE  
 CENTRALIA, WA 98531  
 (360) 807-4420

REV:	DESCRIPTION:	DATE:
0	FOR CONSTRUCTION	07/05/21

C1.3  
 4 OF 9



SECTION 32 TOWNSHIP 14N RANGE 02W W.M.



CLASS 3000 CEMENT CONCRETE

GENERAL NOTES:

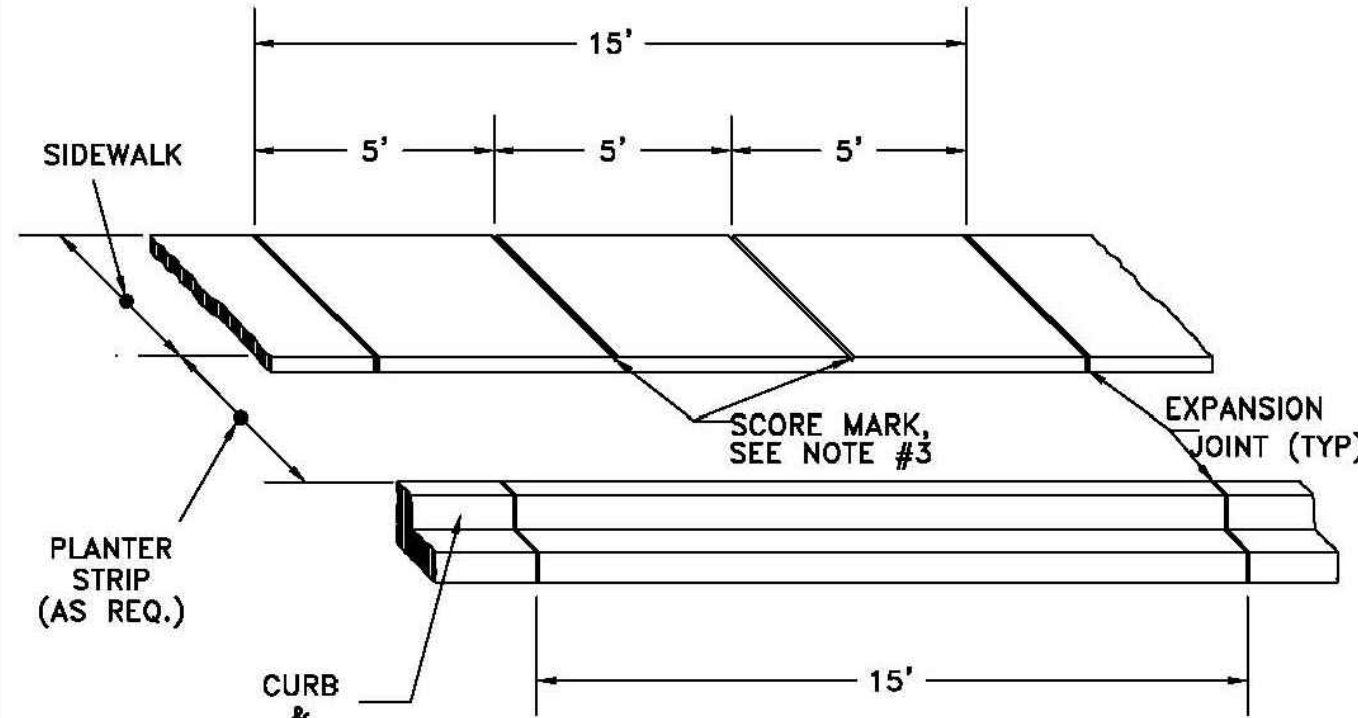
1. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE.
2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
3. SUBGRADE AND BASE REQUIREMENTS SHALL BE THE SAME AS FOR PAVEMENT RESTORATION.

*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. 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**

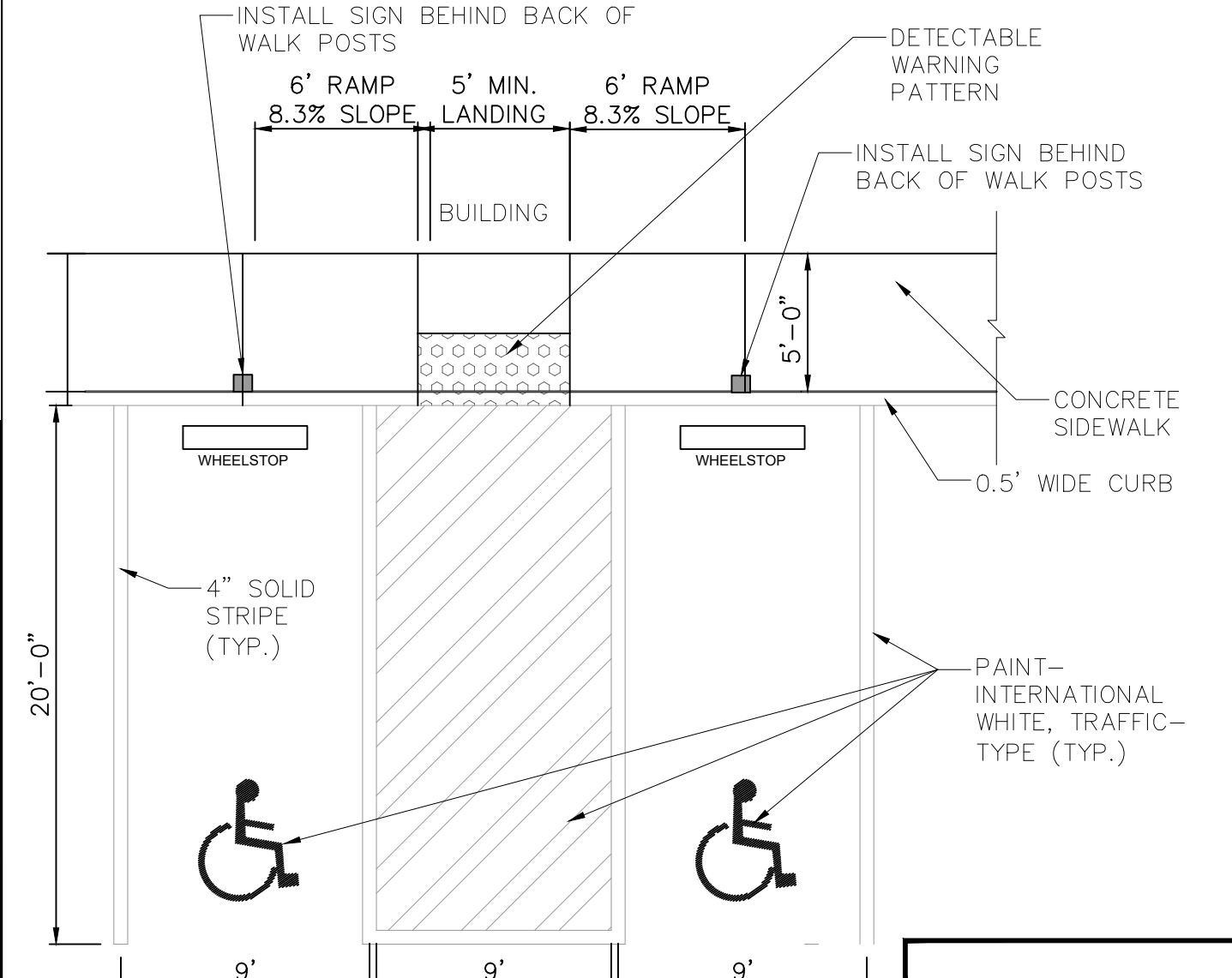
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	2-10
CITY ENGINEER	REVISED DATE
	1/02/2003

SP-2

PRECAST CEMENT CONCRETE WHEELSTOP

SP-4

DETECTABLE WARNING PATTERN



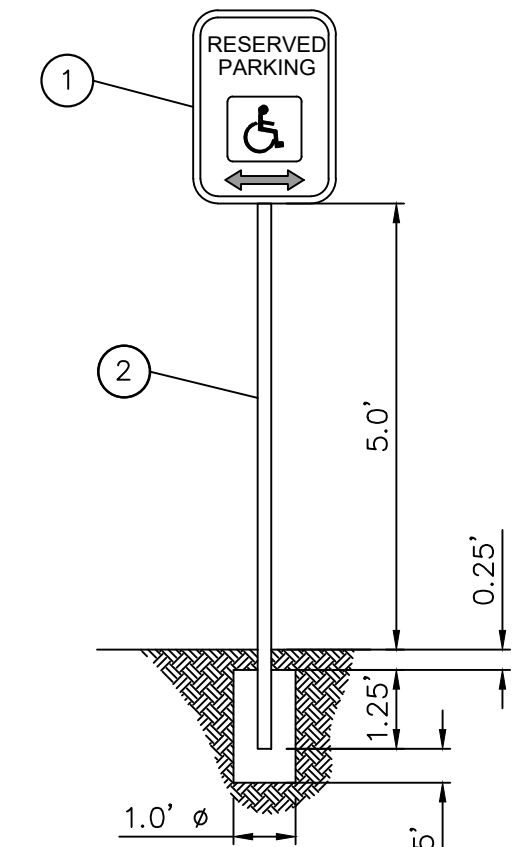
SP-1

HANDICAPPED PARKING STALLS

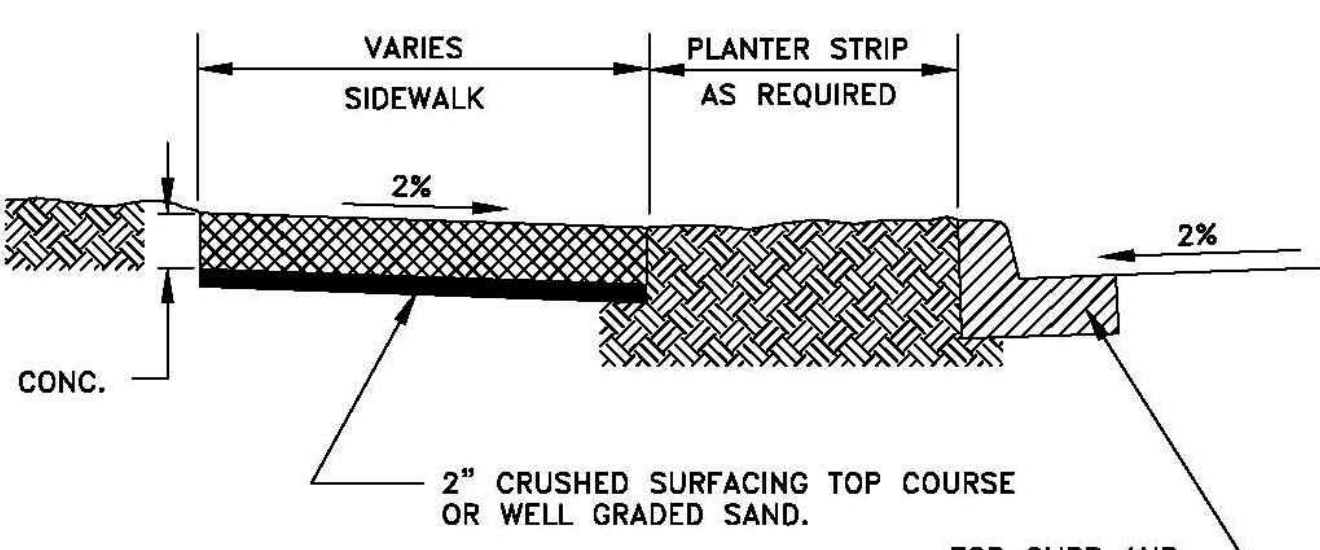
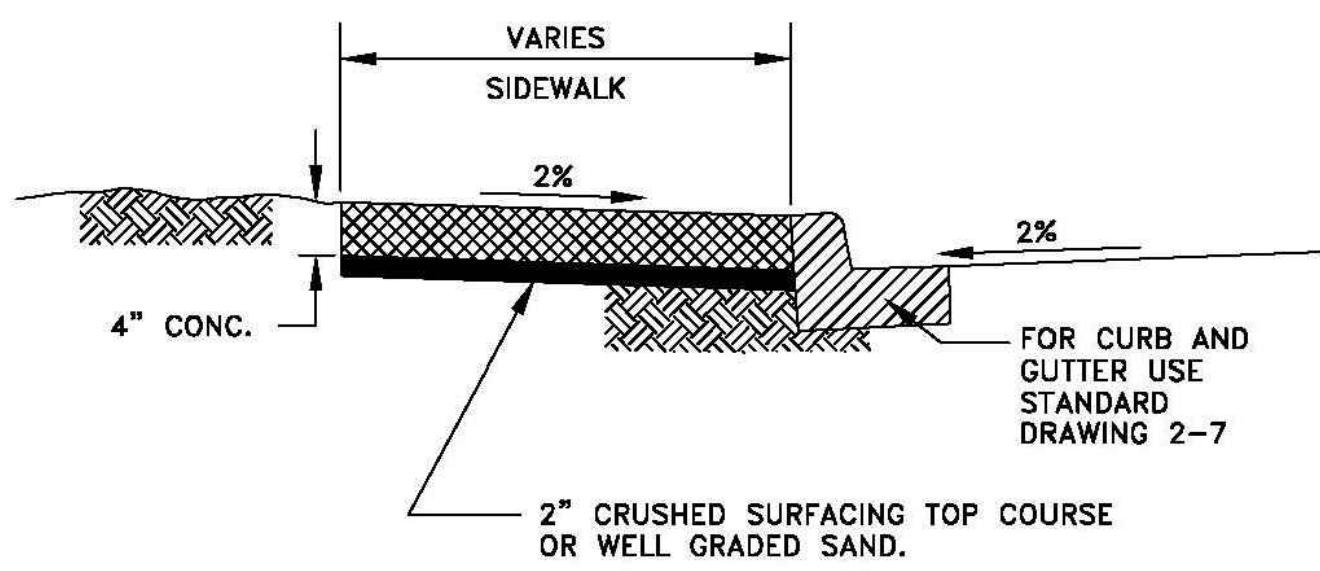
SP-3



1. INSTALL MUTCD SIGN R7-8 IN FRONT OF HANDICAPPED STALL
2. POST REQUIRED IN LANDSCAPE AREAS. ADHERE SIGN ONLY TO SIDING WHEN BUILDING BORDERS SIDEWALK.



ACCESSIBILITY SIGN



GENERAL NOTES:

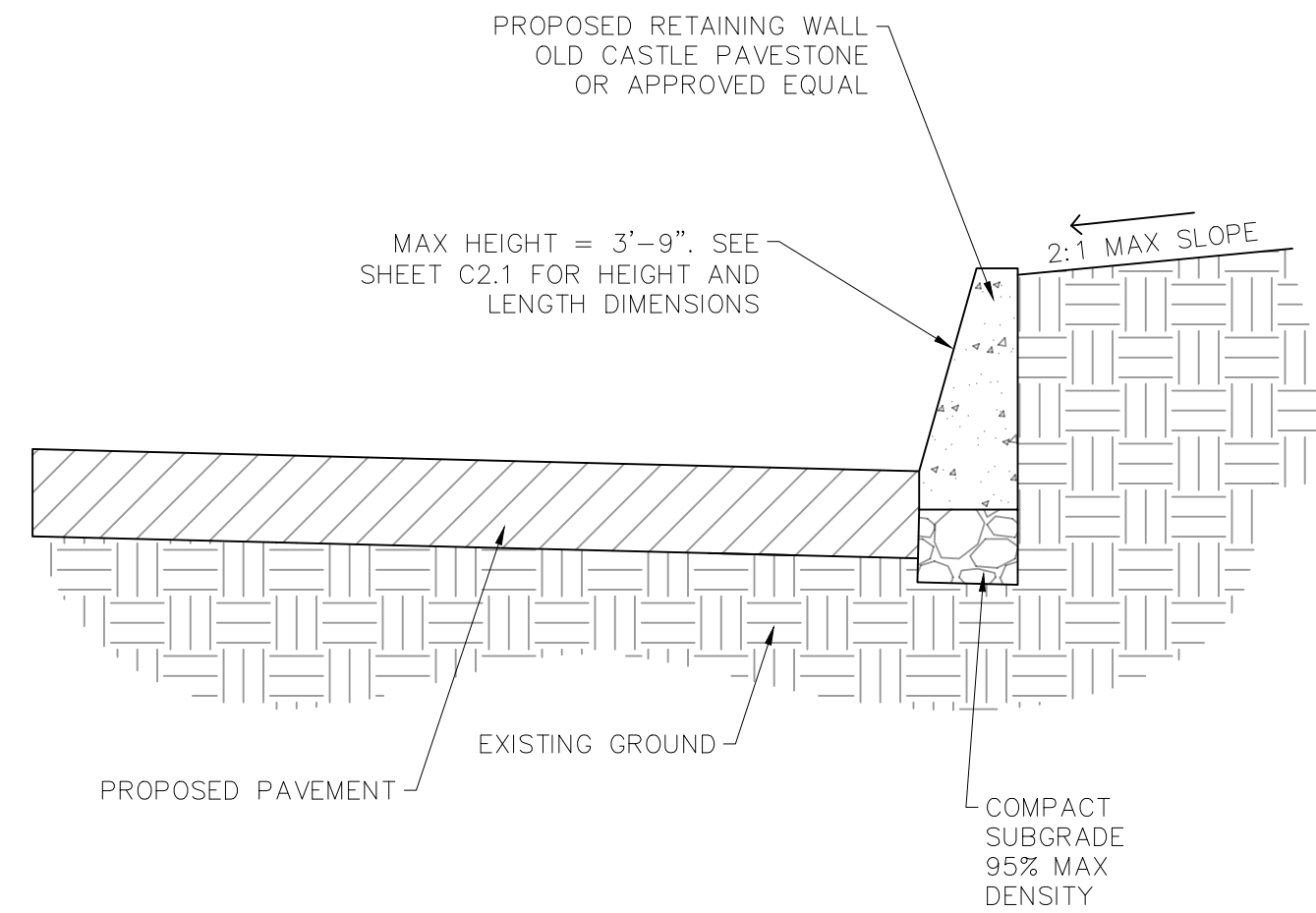
1. REFER TO STANDARD DRAWING 2-10 FOR INFORMATION ON JOINTS AND SCORING.
2. SIDEWALK ACROSS CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 6" FOR RESIDENTIAL DRIVES & 8" FOR ALL OTHER DRIVES.
3. WHEN CHECKED WITH A 10' STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH & ALIGNMENT SHALL NOT VARY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

*City of Chehalis*

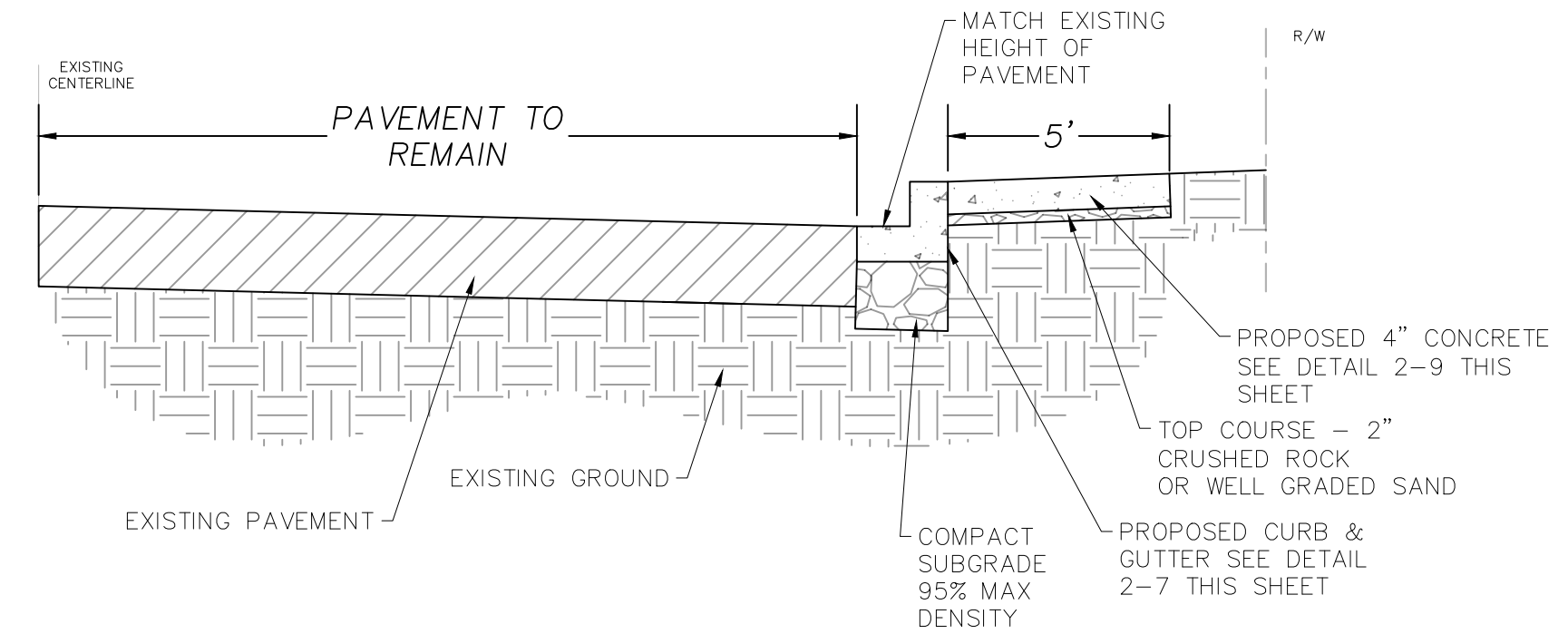
**SIDEWALK**

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

Drawing Not to Scale



**13TH STREET SECTION B-B**  
SCALE: N.T.S.



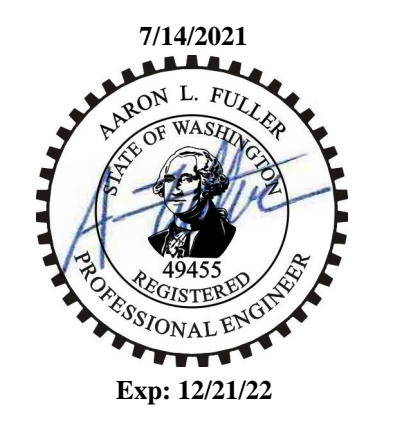
**13TH STREET SECTION A-A**  
SCALE: N.T.S.

Approved For Construction  
City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
Approval expires 1 year from above date

DRAWING TITLE: SITE & PAVING DETAILS

SCALE: N.T.S.

DATE: 07/12/21  
DRAWN: TY  
CHECKED: AF  
PROJECT NAME: LONE PINE MEDICAL CENTER

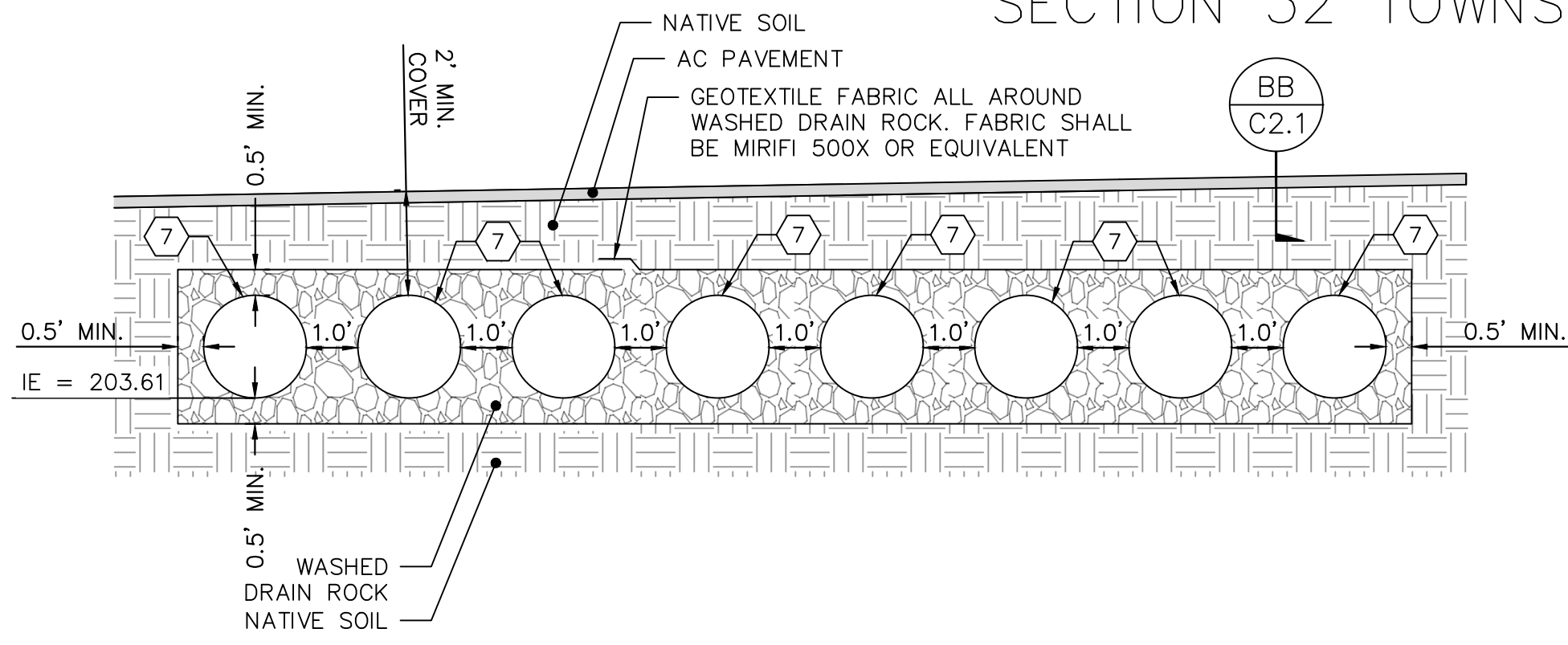


**FULLER DESIGNS**  
1101 KRESKY AVE  
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(360) 807-4420

REV:	DESCRIPTION:	DATE:
0	FOR CONSTRUCTION	07/05/21

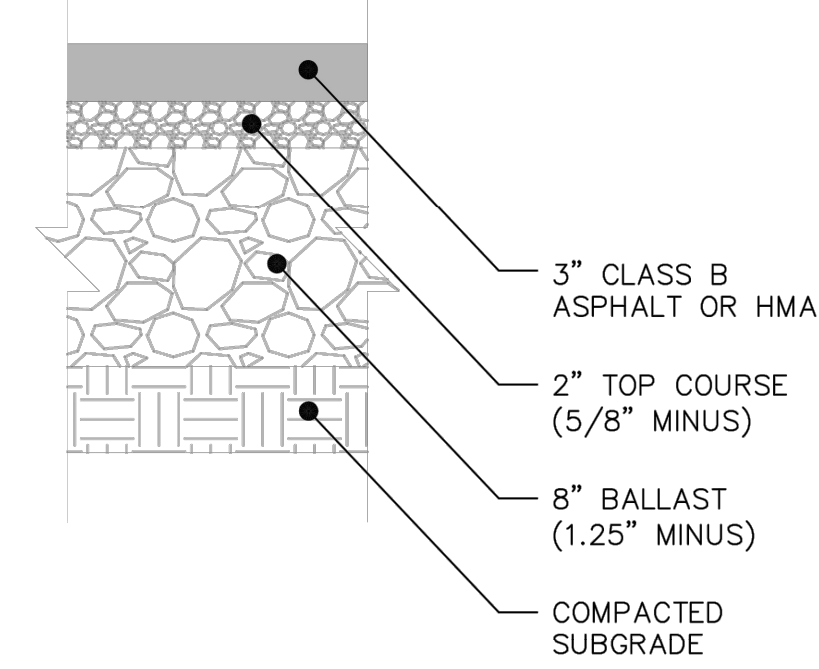
**C1.4**  
5 OF 9





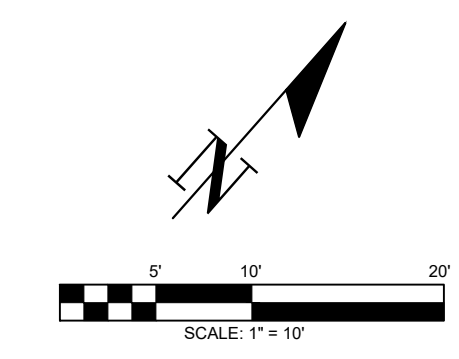
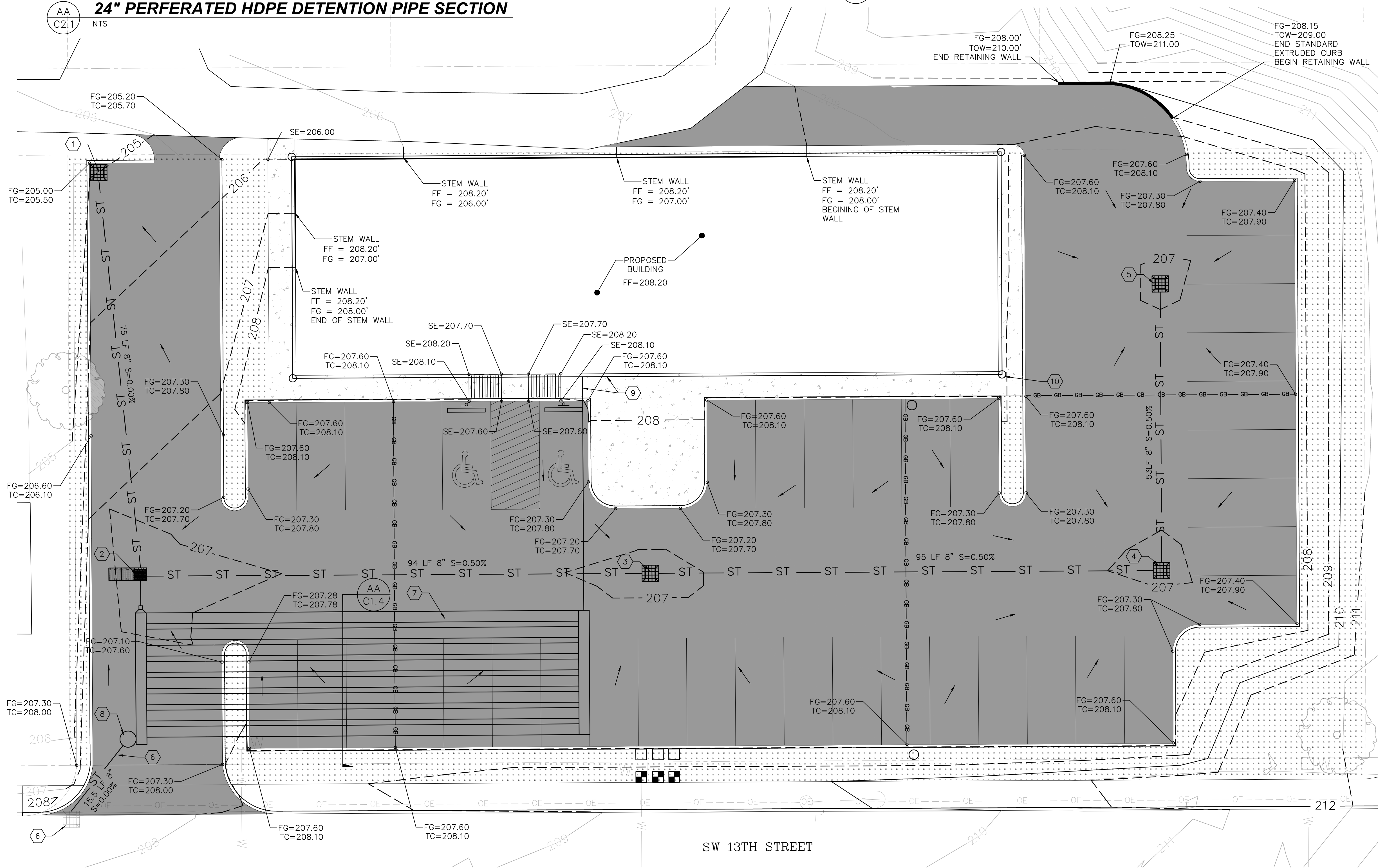
**24" PERFERATED HDPE DETENTION PIPE SECTION**

AA  
C2.1  
NTS



**PARKING STRUCTURAL SECTION (TYP)**

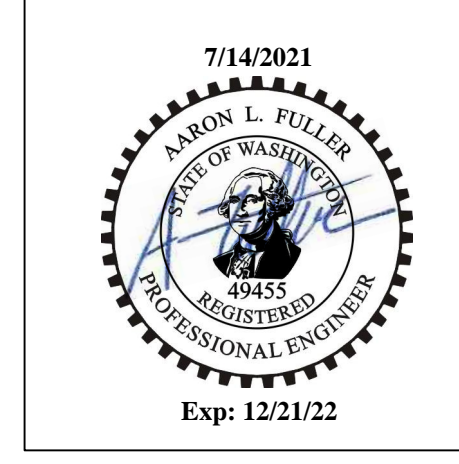
BB  
C2.1  
NTS



**STORMWATER NOTES:**

- 1 INSTALL CB#1 TYPE 1 PER DETAIL 3-1 ON SHEET C2.2 RIM = 205.00 OUT 8" IE=203.61 (W)
- 2 INSTALL CB#2 CONTECH 2 CARTRIDGE STORMFILTER PER ST-1 ON SHEET C2.2 RIM = 206.77 IN 8" IE = 203.61 (SW) IN 8" IE = 203.61 (SE) OUT 8" IE = 203.61 (SW)
- 3 INSTALL CB#3 TYPE 1 PER DETAIL 3-1 ON SHEET C2.2 RIM = 206.90 IN 8" IE = 204.08 (SW) OUT 8" IE = 204.08 (SW)
- 4 INSTALL CB#4 TYPE 1 PER DETAIL 3-1 ON SHEET C2.2 RIM = 206.90 IN 8" IE = 204.55 (SE) OUT 8" IE = 204.55 (SW)
- 5 INSTALL CB#5 TYPE 1 PER DETAIL 3-1 ON SHEET C2.2 RIM = 206.90 OUT 8" IE = 204.82 (SE)
- 6 8"Ø NON-PERF HDPE D3034 SDR 35 STORM PIPE
- 7 INSTALL 24" PERFORATED HDPE DETENTION PIPE, SEE DETAIL AA THIS SHEET
- 8 INSTALL SOLID LID CONTROL STRUCTURE PER DETAIL ST-2 ON SHEET C2.2. RIM = 207.61 IN 8" IE = 203.61 (SW) OUT 8" IE = 203.61 (SW) 8" X 24" ECCENTRIC REDUCER
- 9 4"Ø ADS N12 DRAIN PIPE
- 10 ROOF DOWNSPOUT (TYP)

DRAWING TITLE:	GRADING AND DRAINAGE PLAN		
	DATE:	DRAWN:	CHECKED:
SCALE:	07/12/21	TY	AF
PROJECT NAME:	LONE PINE MEDICAL CENTER		



**FULLER DESIGNS**  
 1101 KRESKY AVE  
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 (360) 807-4420

REV:	DESCRIPTION:	DATE:
0	FOR CONSTRUCTION	07/05/21

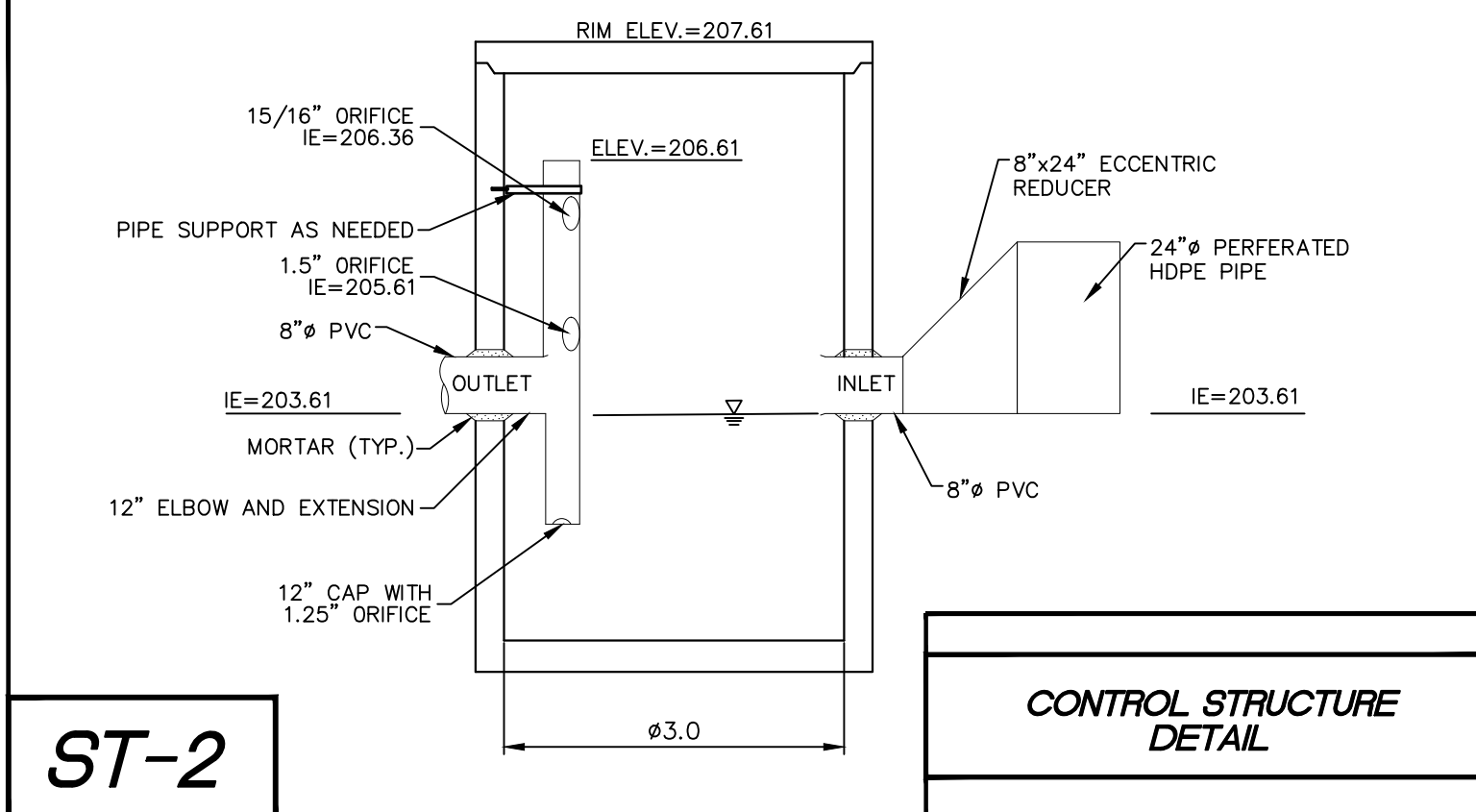
Approved For Construction  
 City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
 Approval expires 1 year from above date



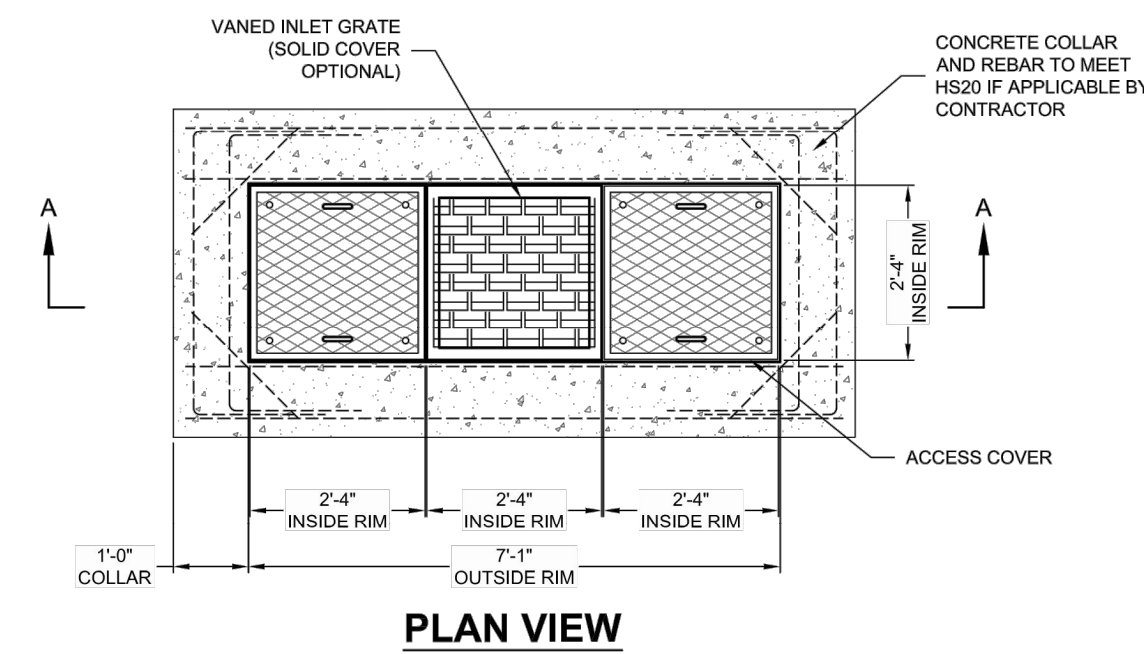
**STORM DRAINAGE INSTALLATION  
GENERAL NOTES**

- All workmanship and materials shall be in accordance with City Standards and the most current copy of the WSDOT/AFWA Standard Specifications for Road, Bridge and Municipal Construction.
- Temporary erosion/pollution measures shall be required for the duration of the project.
- The contractor must comply with all permits and other requirements of the City or other governing authority or agency.
- A preconstruction meeting shall be held with the City prior to the start of staking.
- All storm sewer mains, appurtenances and retention/detention areas shall be staked for grade and alignment by an engineering or surveying firm capable of performing such work. All vertical control shall be established using the 1988 USGS Datum. Staking shall be inspected by the City prior to the start of construction and shall be maintained throughout construction.
- Storm drain pipe shall meet the following requirements (use only those which apply):
  - Plain concrete pipe conforming to AASHTO M 86, Class 2.
  - reinforced concrete pipe conforming to AASHTO M 170.
  - PVC pipe conforming to ASTM D 3034 SDR 35, ASTM F 794 or ASTM F 679. Type 1 with joints and gaskets conforming to ASTM 3212 and ASTM F 477.
  - Ductile iron pipe conforming to AWWA C 151, thickness class as shown on plans.
- Special structures, oil/water separators and outlet controls shall be installed per plans and manufacturers recommendations.
- Provide traffic control plan(s) as required in accordance with MUTCD.
- Call the Underground Location Center at 1-800-424-5555 a minimum of 48 hours prior to any excavation.
- Where connections require "field verifications", connection points will be exposed by the contractor and fittings verified 48 hours prior to starting construction.
- All Storm lines will be high-velocity cleaned and pressure tested in accordance with Division 7 of the WSDOT Standard Specifications prior to paving in conformance with the above-referenced specifications. (See Note 1). Hydrant flushing of lines is not an acceptable cleaning method.
- Testing of the Storm main will include Television inspection of the main at the contractor's expense. Immediately prior to tv inspection enough water will be run down the line to flush it clean. Acceptance of the line will be made after tv inspection tape has been reviewed and approved by the inspector. A water test of all manholes is also required. Testing will take place after all underground utilities are installed and compaction of the roadway subgrade is completed.

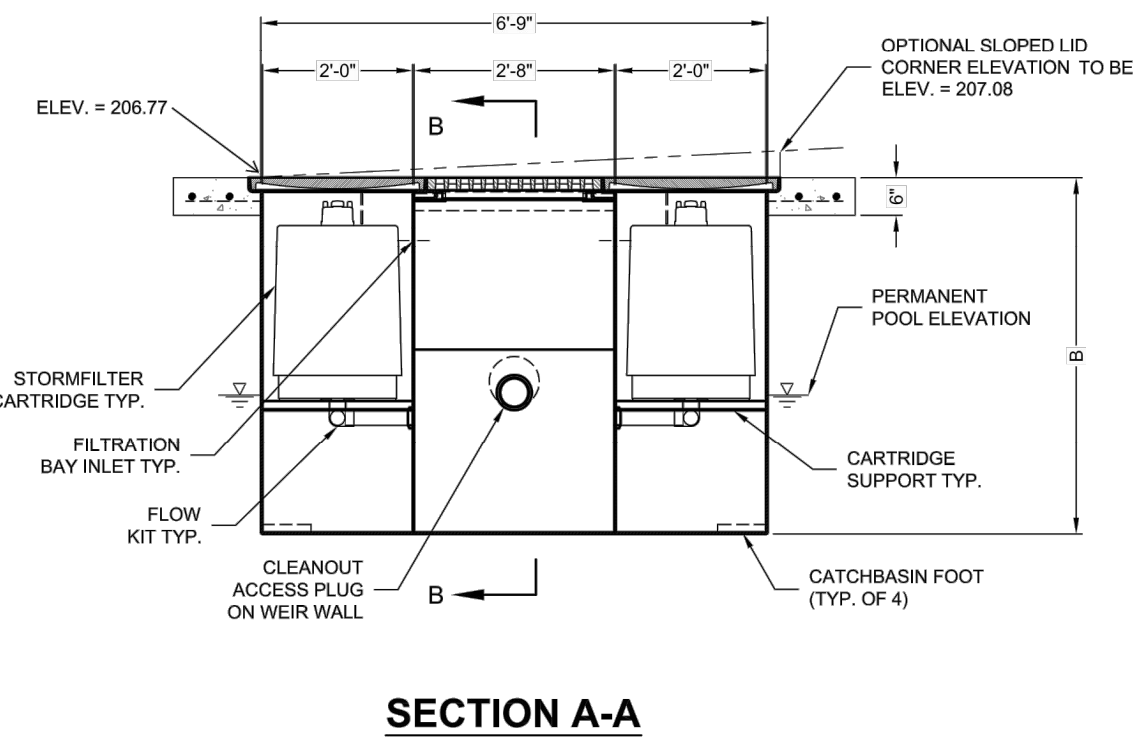
**STORM DRAINAGE INSTALLATION  
GENERAL NOTES**



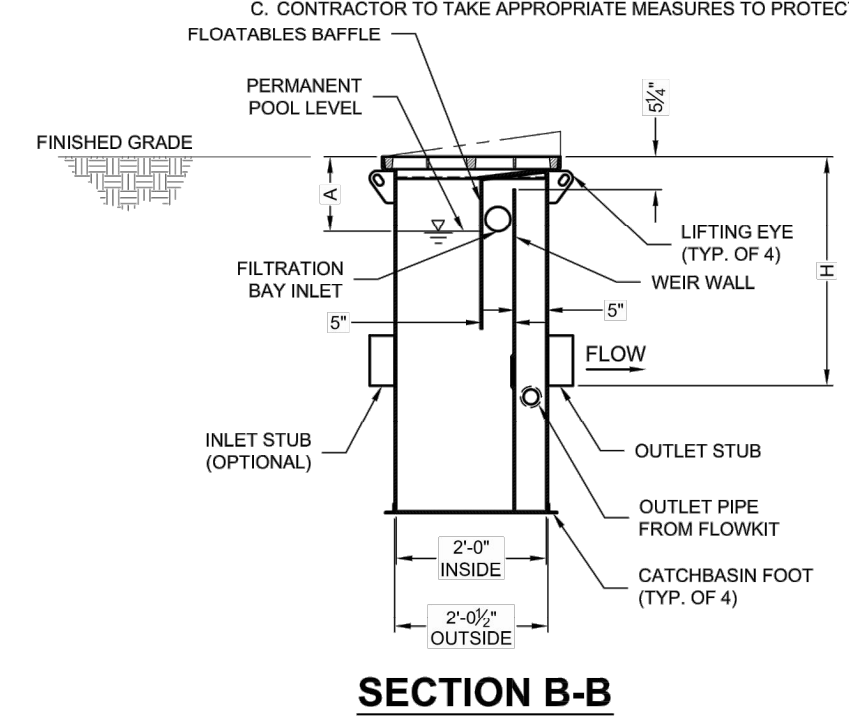
**ST-2**



**ST-1**



**SECTION A-A**



**SECTION B-B**



**2 CARTRIDGE CATCHBASIN  
STORMFILTER  
STANDARD DETAIL**

**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 A 27\"/>

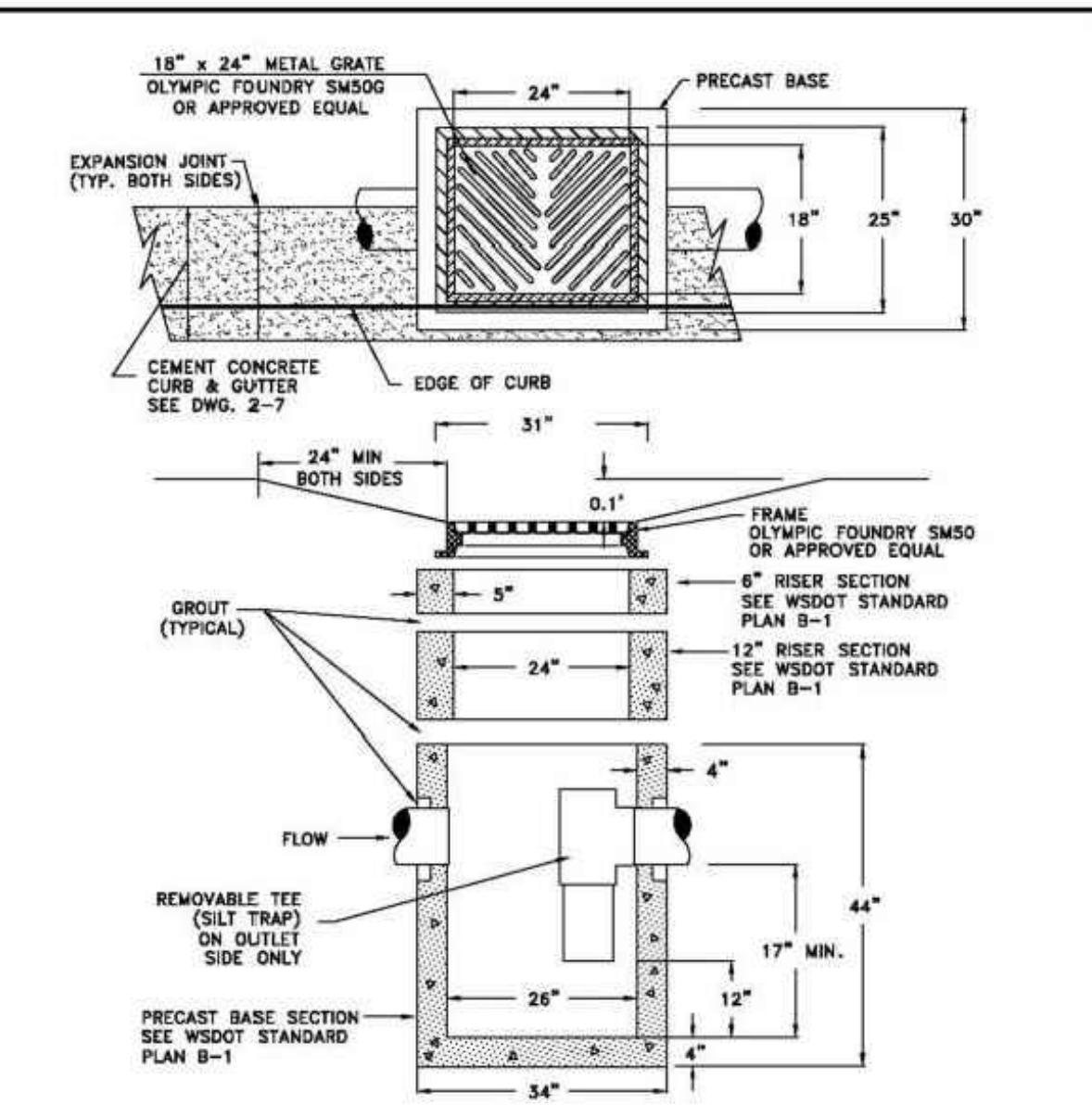
CARTRIDGE SELECTION	27"	18"	18" DEEP
CARTRIDGE HEIGHT	27"	18"	18"
RECOMMENDED HYDRAULIC DROP (H)	3.05'	2.3'	3.3'
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67 gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	11.25	7.5
PEAK HYDRAULIC CAPACITY	1.0	1.0	1.8
INLET PERMANENT POOL LEVEL (A)	1'-0"	1'-0"	2'-0"
OVERALL STRUCTURE HEIGHT (B)	4'-9"	3'-9"	4'-9"

- GENERAL NOTES**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH 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.
  - 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 SFCB.
  - 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 M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A 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 98 SECONDS.
  - SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

**INSTALLATION NOTES**

- ANY SUB-BASE, 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.

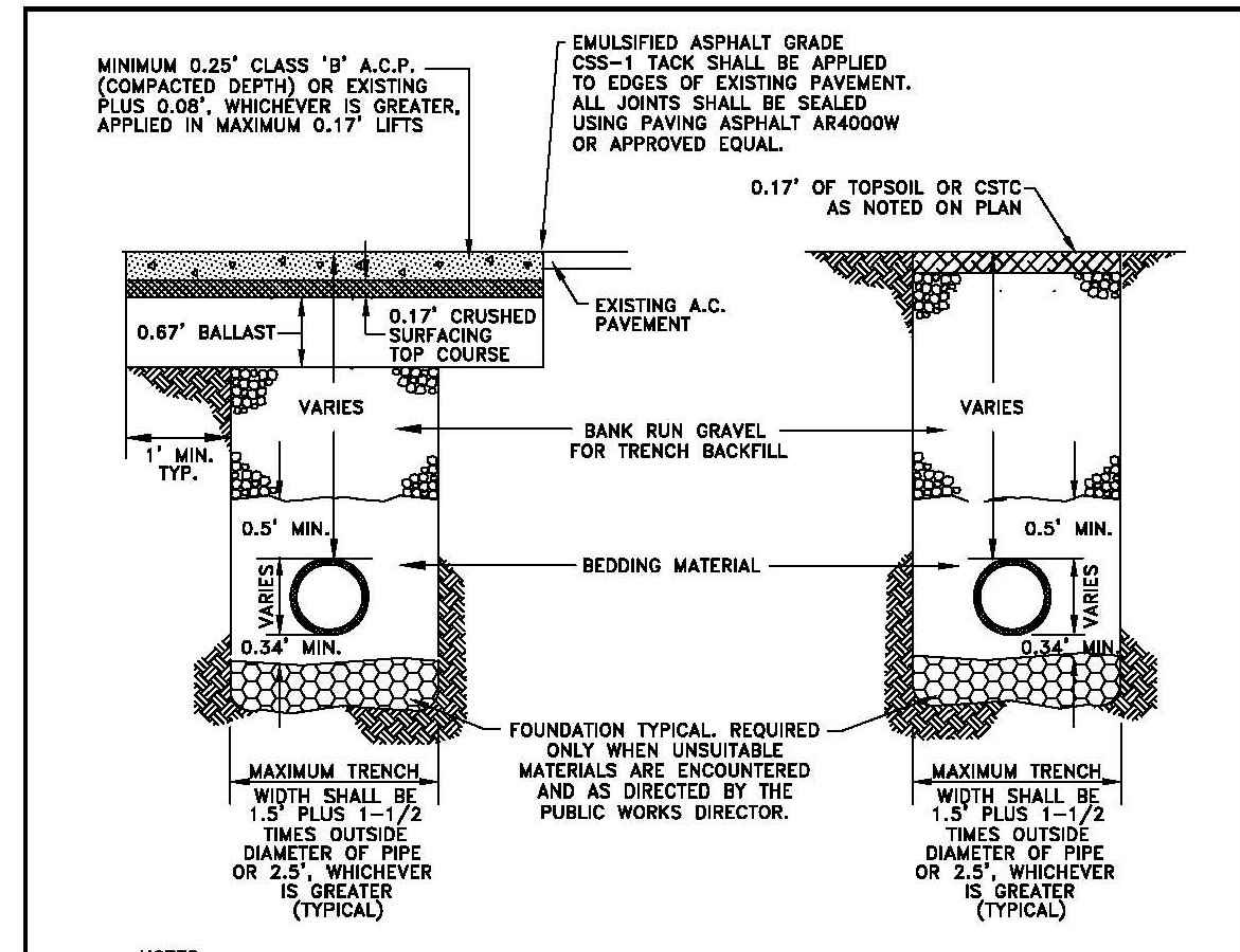
2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA	
STRUCTURE ID	CB #2
WATER QUALITY FLOW RATE (cfs)	0.0351
PEAK FLOW RATE (<1.8 cfs)	0.22416
RETURN PERIOD OF PEAK FLOW (yrs)	100
CARTRIDGE FLOW RATE (gpm)	12.53
MEDIA TYPE (PERLITE, ZPG, PSORB)	ZPG
RIM ELEVATION	206.77
<b>PIPE DATA:</b>	
INLET STUB	203.61 8"
OUTLET STUB	203.61 8"
<b>CONFIGURATIONS</b>	
	INLET
	OUTLET
<b>SLOPED LID</b> YES	
<b>SOLID COVER</b> NO	
<b>NOTES/SPECIAL REQUIREMENTS:</b>	



**City of Chehalis**  
**CATCH BASIN WITH  
SILT TRAP TEE**

APPROVED BY: *James R Nichols*  
CITY ENGINEER

DWG. NO. 3-1  
REVISED DATE 1/02/2003



**City of Chehalis**  
**TRENCH PAVEMENT  
RESTORATION DETAIL**

APPROVED BY: *James R Nichols*  
CITY ENGINEER

DWG. NO. 2-4  
REVISED DATE 1/02/2003

DRAWING TITLE: **GRADING & DRAINAGE NOTES AND DETAILS**

CHECKED: AF

DRAWN: TY

DATE: 07/12/21

SCALE: N.T.S.

PROJECT NAME: LONE PINE MEDICAL CENTER

7/14/2021

ARON L. FULLER  
STATE OF WASHINGTON  
REGISTERED  
PROFESSIONAL ENGINEER  
49455  
Exp: 12/21/22

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

REV.	DESCRIPTION	DATE
0	FOR CONSTRUCTION	07/05/21

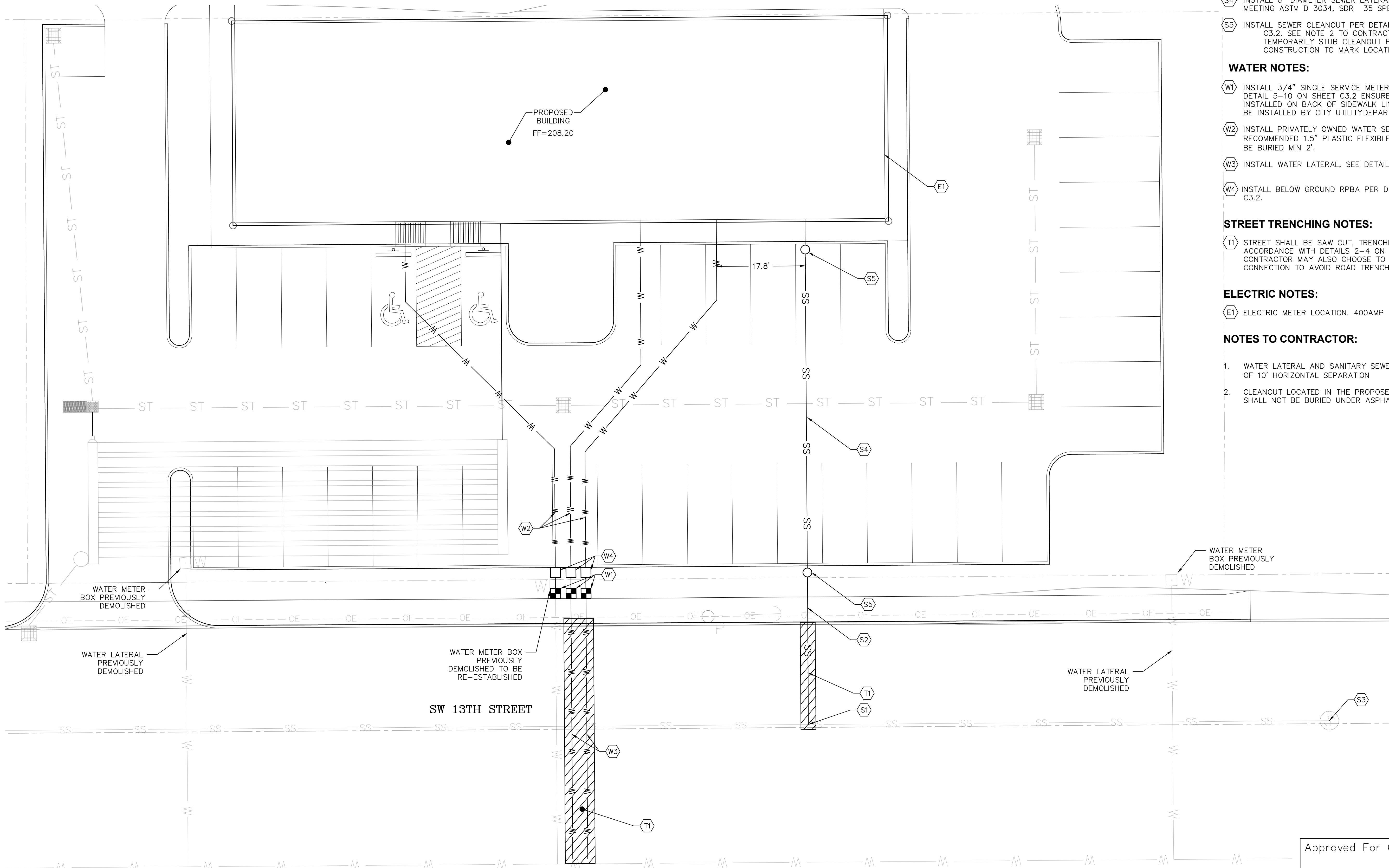
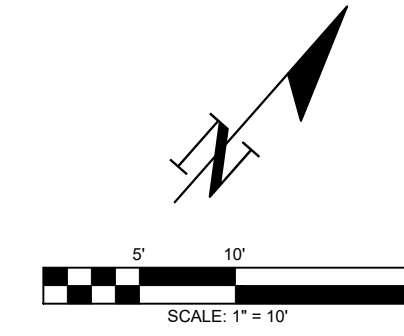
Approved For Construction

City Engineer \_\_\_\_\_ Date \_\_\_\_\_

Approval expires 1 year from above date



SECTION 32 TOWNSHIP 14N RANGE 02W W.M.



**SANITARY SEWER NOTES:**

- (S1) MECHANICAL TAP AND SADDLE TO BE DRILLED INTO AND INSTALLED ON THE EXISTING MAIN. SEE DETAIL ON SHEET C3.2
- (S2) INSTALL SEWER LATERAL CONNECTION PER DETAIL 5-10 ON SHEET C3.2 6" PVC LATERAL
- (S3) EXISTING SSMH #1  
RIM = 214.59'±  
EX. 12" PVC IE = 202.28 (NE-SW)  
EX. 12" PVC = APPROX. 208' TO BUILDING (NW)
- (S4) INSTALL 6" DIAMETER SEWER LATERAL. PIPE SHALL BE PVC MEETING ASTM D 3034, SDR 35 SPECIFICATIONS.
- (S5) INSTALL SEWER CLEANOUT PER DETAIL 5-10 ON SHEET C3.2. SEE NOTE 2 TO CONTRACTOR. CONTRACTOR MAY TEMPORARILY STUB CLEANOUT PIPE ABOVE GRADE DURING CONSTRUCTION TO MARK LOCATION.

**WATER NOTES:**

- (W1) INSTALL 3/4" SINGLE SERVICE METER IN ACCORDANCE WITH DETAIL 5-10 ON SHEET C3.2 ENSURE WATER METER IS INSTALLED ON BACK OF SIDEWALK LINE. WATER METER TO BE INSTALLED BY CITY UTILITY DEPARTMENT.
- (W2) INSTALL PRIVATELY OWNED WATER SERVICE LINE AS SHOWN. RECOMMENDED 1.5" PLASTIC FLEXIBLE PIPING. PIPE SHALL BE BURIED MIN 2'.
- (W3) INSTALL WATER LATERAL, SEE DETAIL 4-1 ON SHEET C3.2.
- (W4) INSTALL BELOW GROUND RPBA PER DETAIL 4-18 ON SHEET C3.2.

**STREET TRENCHING NOTES:**

- (T1) STREET SHALL BE SAW CUT, TRENCHED AND RESTORED IN ACCORDANCE WITH DETAILS 2-4 ON SHEET C2.2. CONTRACTOR MAY ALSO CHOOSE TO BORE LATERAL CONNECTION TO AVOID ROAD TRENCHING

**ELECTRIC NOTES:**

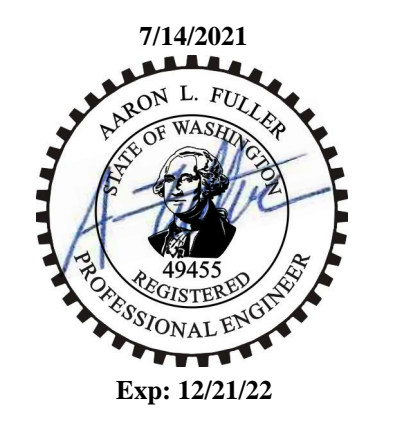
- (E1) ELECTRIC METER LOCATION. 400AMP

**NOTES TO CONTRACTOR:**

1. WATER LATERAL AND SANITARY SEWER TO MAINTAIN MINIMUM OF 10' HORIZONTAL SEPARATION
2. CLEANOUT LOCATED IN THE PROPOSED ASPHALT AREA SHALL NOT BE BURIED UNDER ASPHALT.

DRAWING TITLE:

UTILITY PLAN	CHECKED: AF
DATE: 07/12/21	DRAWN: TY
SCALE: 1" = 10'	PROJECT NAME: LONE PINE MEDICAL CENTER



**FULLER DESIGNS**  
1101 KRESKY AVE  
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REV:	DESCRIPTION:	DATE:
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Approved For Construction  
City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
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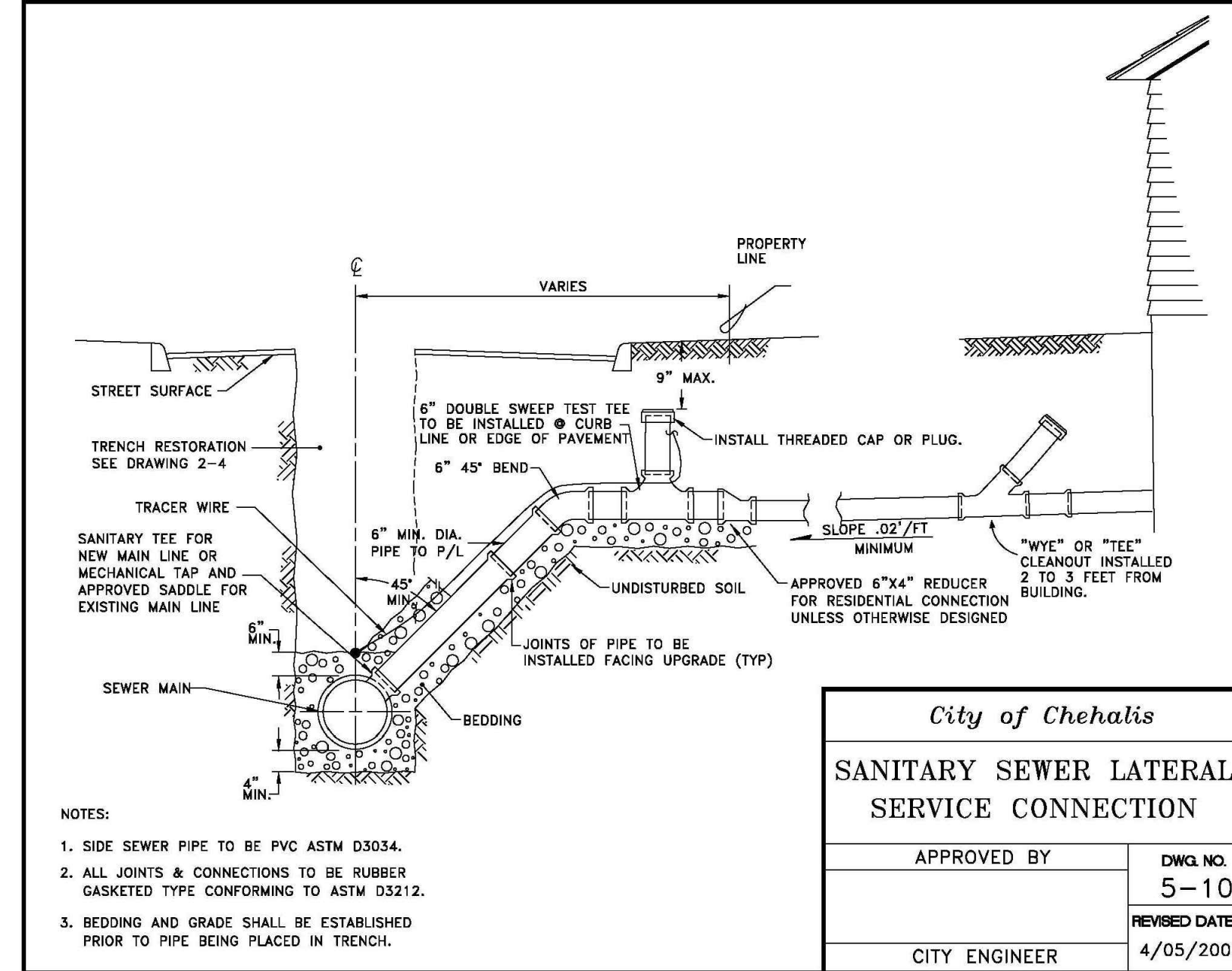
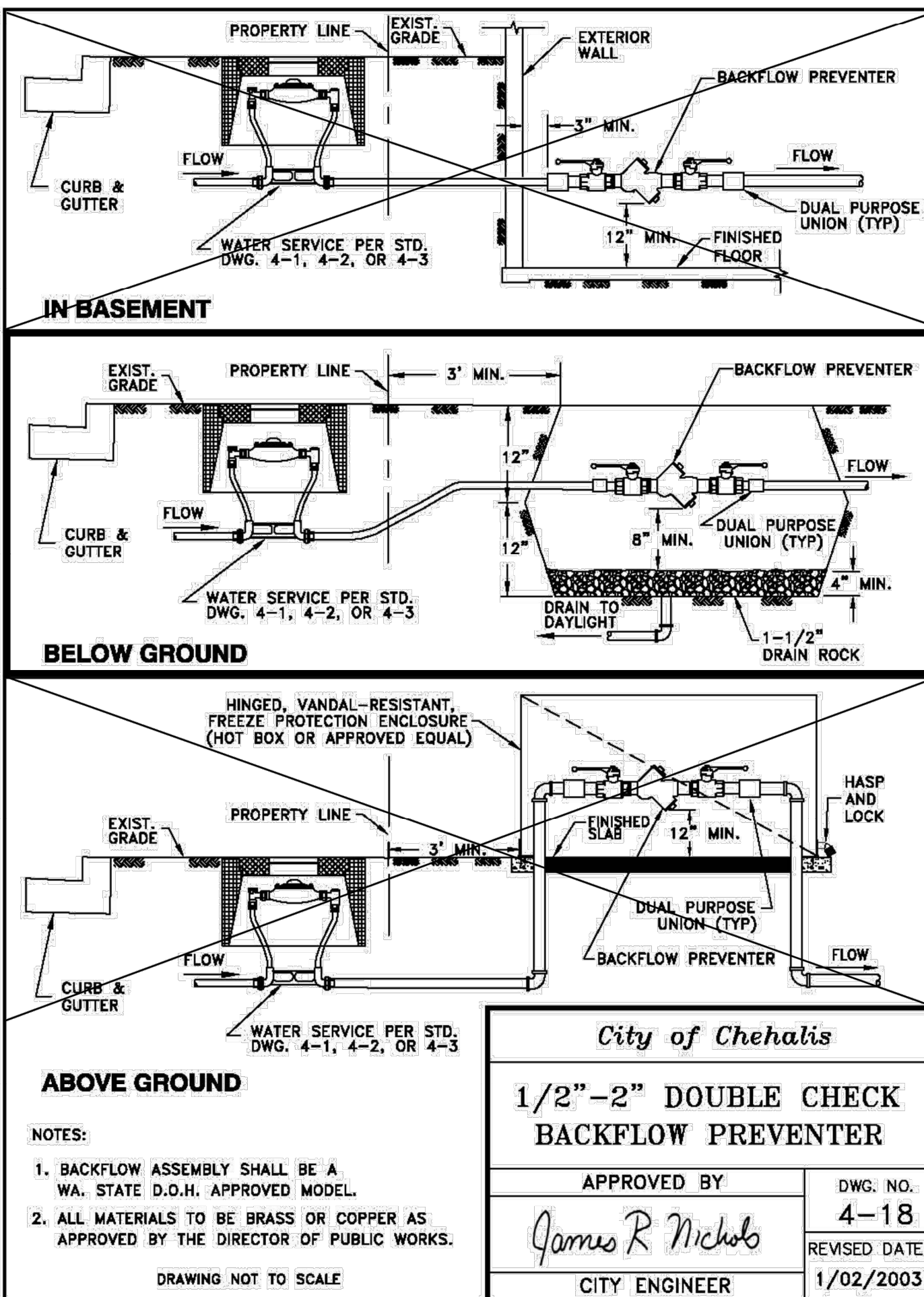
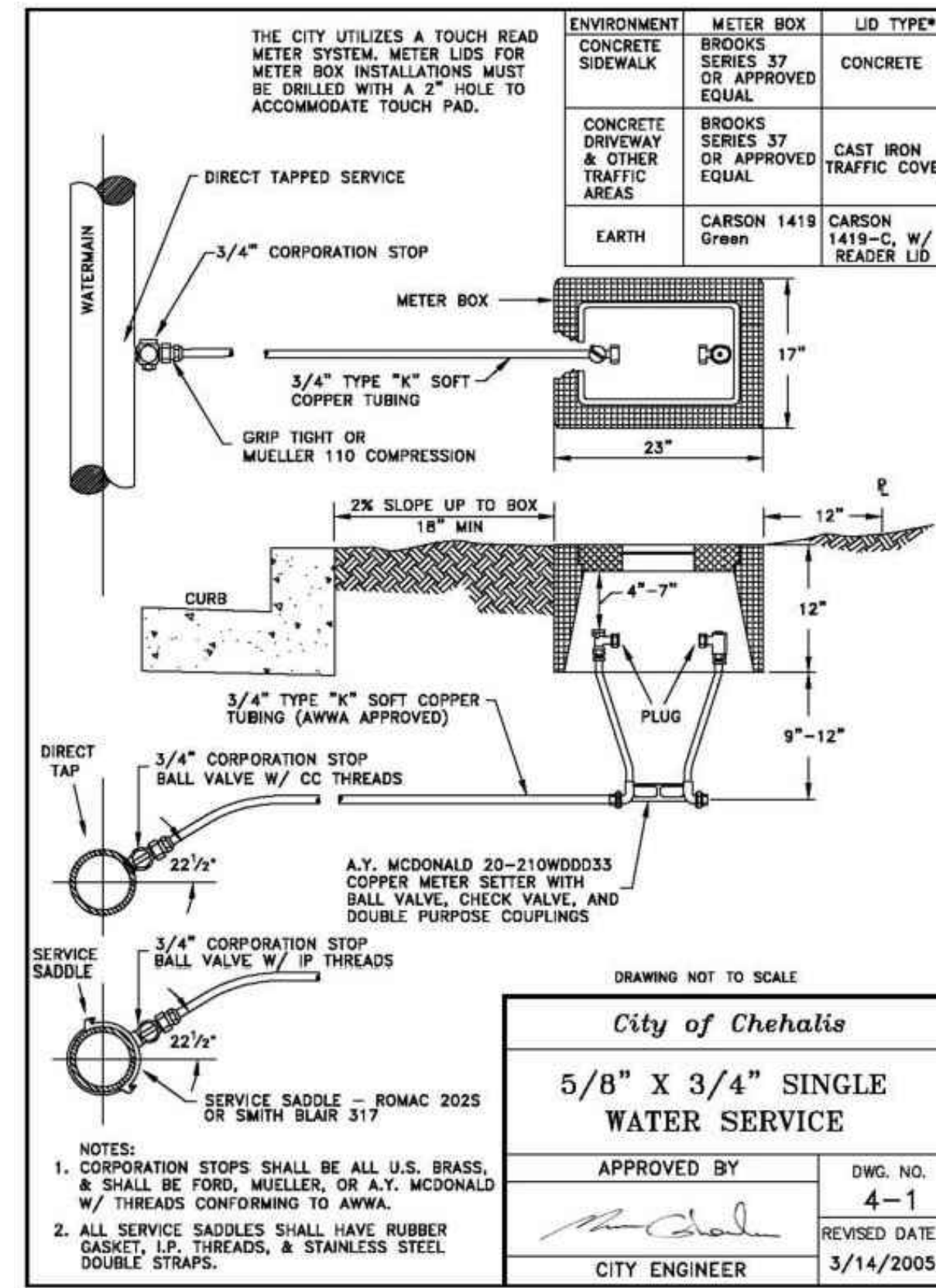


**WATER MAIN INSTALLATION  
GENERAL NOTES**

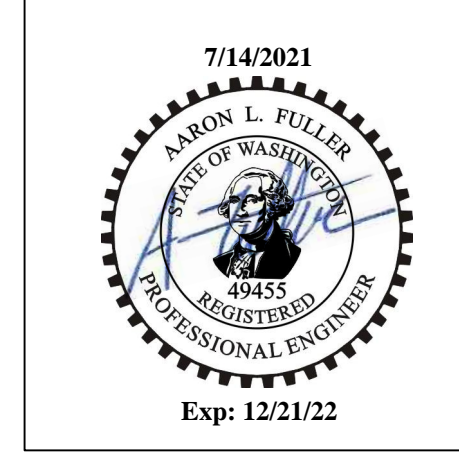
1. All workmanship and material will be in accordance with the City Standards and the most recent copy of the WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction, American Water Works Association (AWWA) Standards and ANSI/NSF Standard 60 or 61.
2. A pre-construction meeting will be held with the Public Works Department prior to the start of construction.
3. Gate valves will be resilient wedge, NRS (Non-Rising Stem) with O-ring seals. Valve ends will be mechanical joint or ANSI flanges. Valves will conform to AWWA 509-80. Valves will be Mueller, M & H, Kennedy, Clow R/W or Waterous Series 500. Existing valves and all valves installed directly to and connected to a portion of the active water system are to be operated by city employees only.
4. Fire hydrants will be installed every 200' M & H Series 929, and be equipped w/ Storz Adaptors. Hydrants will be installed in accordance with the most recent version of the Uniform Fire Code. Hydrants will be bagged and the connecting gate valves left closed until the system has been approved. Hydrants must be painted with sunburst yellow high-grade enamel after installation.
5. All lines will be chlorinated and tested in conformance with the above referenced specifications (see Note 1).
6. All pipes and services will be installed with continuous tracer tape placed twelve (12) to eighteen (18) inches under the proposed finished subgrade. The marker will be of plastic non-biodegradable, metal core, or backing marked "WATER" that can be detected by a standard metal detector. Tape will be Terra Tape "D" or approved equal. In addition to tracer tape, toning wire will be installed over all pipe and services. Toning wire will be UL listed, type UF, fourteen (14) gauge solid coated copper wire, taped to the top of the pipe to prevent movement during backfilling and laid loose enough to prevent stretching and damage before being bought up and tied off at the valve operating nut or valve box. If the operating nut is not easily accessible from the ground surface, the copper wire will be tied off at the valve box in such a way that the wire is easily accessible from the ground surface. Two (2) feet of slack will be provided to allow for connection to the locator.
7. A 1-lb magnesium anode will be buried with the pipe every 1,000 linear feet maximum for cathodic protection of the toning wire. Toning wire splices and connections to anodes will join wires both mechanically and electrically and will employ epoxy resin or heat-shrink tape insulation. Toning wire will be tested prior to acceptance of the pipe system. A written notice from the contractor to the city must be received two (2) business days prior to when testing is required.
8. The contractor will provide traffic control plan(s) as required in accordance with MUTCD.
9. All water mains will be staked for grades and alignment by an engineering or surveying firm capable of performing such work. Staking will be maintained throughout construction.
10. All service line and water valve locations will be marked on the face of the adjacent curb with "W" or "WV" embossed 1/4-inch into the concrete.
11. All water system connections serving buildings or properties with domestic potable water, fire sprinkler or irrigations systems will be comply with the minimum backflow prevention requirements established by the Department of Health (DOH) and the City of Chehalis Cross-Connection Control Program.
12. Call Utilities Underground Location Center at 811 a minimum of two (2) business days prior to any excavations.
13. The city will be notified five (5) business days prior to scheduling a water system shutdown. The city's Water Division will perform all water system shutdowns. When connections require "field verification", connection points will be exposed by the contractor and fittings verified by the city two (2) business days prior to the distribution of shutdown notices. Customers involved with or affected by water service interruptions will be notified at least forty-eight (48) hours in advance. Shutdowns will not be permitted on Fridays, weekends, or holidays without written authorization from the Director of Public Works.
14. When connecting to an existing waterline where a new valve is not to be installed, the existing valve must be pressure tested to the Public Works Standards by the contractor prior to connection. If an existing valve fails to pass the test, the contractor will make necessary additional provisions to test the new line prior to connecting to the existing system or will install a new valve. New lines will not be connected to the existing system until all required tests have been passed.

**SANITARY SEWER MAIN INSTALLATION  
GENERAL NOTES**

1. All workmanship and material will be in accordance with the City Standards and the most recent copy of the State of Washington Standard Specifications for Road, Bridge and Municipal Construction (WSDOT/APWA).
  2. All approvals and permits required by the City will be obtained by the contractor prior to the start of construction.
  3. If construction is to take place in the County right-of-way, the contractor will notify the County and obtain all required approvals and permits.
  4. A pre-construction meeting will be held with a Public Works Department representative prior to the start of construction.
  5. The Public Works Department will be notified a minimum of two (2) business days in advance of a tap connection to an existing main. A Public Works representative will be present at the time of the tap.
  6. The contractor will be fully responsible for the location and protection of all existing utilities. The contractor will verify all utility locations prior to construction by calling the Utilities Underground Location Center at 811 a minimum of two (2) business days prior to any excavation.
  7. All sewer mains will be field staked for grades and alignment by a licensed engineering or surveying firm qualified to perform such work. Staking will be maintained throughout construction.
  8. All pipes and services will be installed with continuous tracer tape placed twelve (12) to eighteen (18) inches under the proposed finished subgrade. The marker will be of plastic non-biodegradable, metal core, or backing marked "SEWER" that can be detected by a standard metal detector. If visibility cannot be maintained between structures along the straight alignment of sewer, toning wire will be installed above the sewer line at a depth no greater than 48 inches. Tape will be Terra Tape "D" or approved equal. In addition, STEP, force mains, and curvilinear sewers will be installed with toning wire taped to the top of the pipe to prevent movement during backfill.
- If toning wire is required, it will be UL listed, type UF, fourteen (14) gauge copper. The wire will be laid loosely enough to prevent stretching and damage. The wire will be wrapped to a manhole or cleanout rings on gravity sewer or valve body on STEP mains.
9. Bedding of the sewer main and compaction of backfill material will be required in accordance with the above specifications (See Note 1).
  10. All manholes and cleanouts outside the paved area will be installed in accordance with Catch basin type 2 detail on sheet C2.5 and Standard Drawing 5.5 on this sheet.
  11. When temporary street patching is allowed by the city, cold mix asphalt will be placed to a maximum depth of one (1) inch. The contractor will be responsible for maintenance as required by the city.
  12. Erosion control measures conforming to the most recent version of the City Stormwater Management Plan and Chapter 3 of the Public Works Standards will be taken by the contractor during construction to prevent infiltration of existing and proposed storm drainage facilities and roadways.
  13. Provide traffic control plan(s) in accordance with Manual on Uniform Traffic Control Devices (MUTCD) as required.
  14. It will be the responsibility of the contractor to have a copy of the approved construction plans on-site at all times. "Approved" plans are typically signified by the signature of the Director of Public Works.
  15. Any changes to the design will first be reviewed and approved by the developer's project engineer and then the Director of Public Works prior to implementation.
  16. Prior to backfill, all mains and appurtenances will be inspected and approved by a Public Works representative. Approval does constitute final acceptance of the sewer line. The contractor will retain responsibility to repair all deficiencies and failures revealed during all required testing for acceptance and throughout the duration of the warranty. It is the contractor's responsibility to notify the Public Works Department in advance of all required inspections. Any main or appurtenance backfill prior to inspection will be re-excavated for inspection at no cost to the city.



DRAWING TITLE:	UTILITY NOTES AND DETAILS	CHECKED:	AF
SCALE:	AS SHOWN	DRAWN:	TY
DATE:	07/12/21		
PROJECT NAME:	LONE PINE MEDICAL CENTER		



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

REV:	DESCRIPTION:	DATE:
0	FOR CONSTRUCTION	07/05/21

Approved For Construction  
City Engineer \_\_\_\_\_ Date \_\_\_\_\_  
Approval expires 1 year from above date