



Site Plan Review Committee

Michael Thomas, City Manager

**COMMUNITY DEVELOPMENT
DEPARTMENT**
360-330-7662

Emil Pierson, CD Director
epierson@cityofcentralia.com

Mike Watilo, Building Official
mwatalo@cityofcentralia.com

PUBLIC WORKS DEPARTMENT
360-330-7512

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Patty Page, City Engineer
ppage@cityofcentralia.com

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Willie Wright, Eng. & Ops. Manager
wwright@cityofcentralia.com

POLICE DEPARTMENT
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RIVERSIDE FIRE AUTHORITY
360-736-3975
Terry Ternan, Fire Marshal
tternan@riversidefire.net

LEGAL DEPARTMENT
360-330-7675
Kyle Manley, City Attorney
kmanley@cityofcentralia.com

**SITE PLAN REVIEW COMMITTEE
Meeting Agenda**

Monday, December 22, 2025

Join Zoom meeting: [Public Meeting Link](#)

Join by mobile: #1-253-215-8782

Meeting ID: 891 1886 9218 Passcode: 926458

All applicants should join the meeting at 10 AM as time frames are estimations only and subject to change. The public are invited to participate.

9:00 AM STAFF REVIEW TIME

10:00 AM – Site Plan Review

Project Name: Norplex Civil Plan for Building Addition
Applicant/Owner: Jerry Sanford, 3 Sanfords LLC
Property Address: 1703 Industrial Drive
Contact Phone: 206.817.1813
Email: jsanford@norplexinc.com
Zone: M2, Industrial District
Parcel Information: 003682-056-041
Request: Final civil plan approval for future building addition construction.

BOUNDARY AND TOPOGRAPHIC SURVEY
3 SANFORDS, LLC.

A PORTION OF THE J.K. LUM D.L.C., ALSO KNOWN AS THE SW 1/4 OF THE SE 1/4 OF SECTION 31, TOWNSHIP 15 NORTH, RANGE 2 WEST, W.M., CITY OF CENTRALIA, LEWIS COUNTY, WASHINGTON STATE



APPROVED FOR CONSTRUCTION

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

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- ◊ FOUND REBAR / IRON PIPE AS NOTED
- ◊ SURVEY CONTROL POINT, AS NOTED

- CLEAN OUT
- SANITARY SEWER MANHOLE
- STORM CATCH BASIN

- ROOF DRAIN
- WATER VALVE
- WATER METER

- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION

- POST INDICATOR VALUE
- IRRIGATION CONTROL VALVE

- WATER VAULT
- GAS VALVE
- GAS METER

- UTILITY POLE
- GUY ANCHOR

- JUNCTION BOX
- POWER VAULT

- POWER CABINET
- LIGHT POLE

- ELECTRIC METER
- POWER TRANSFORMER

- TELEPHONE RISER
- TELECOM JUNCTION BOX

- HVAC UNIT
- UTILITY VAULT

- COLUMN
- BOLLARD

- PILE
- POST

- SIGN
- MAILBOX

- A. SERVICE PIT
- DECIDUOUS TREE

- EVERGREEN TREE
- ROCK

- DOOR CENTERLINE
- FF FINISH FLOOR ELEVATION

- TPN TAX PARCEL NUMBER
- BOUNDARY LINE

- LOT LINE
- SECTION LINE

- ROAD CENTERLINE

- RIGHT OF WAY LINE

- EASEMENT LINE

- PARCEL LINE OF LEWIS COUNTY OS

- STORM DRAIN LINE

- SANITARY SEWER LINE

- BURIED WATER LINE

- BURIED GAS LINE

- BURIED POWER LINE

- BURIED TELECOMMUNICATIONS LINE

- OVERHEAD POWER LINE

- DITCH LINE

- RAILROAD TRACK

- ASPHALT SURFACE

- CONCRETE SURFACE

- GRAVEL SURFACE

- RIP-RAP SURFACE

- STEEL SURFACE

- KEYPLAN

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- PROJECT NO.

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 CITY OF CENTRALIA, LEWIS COUNTY, WASHINGTON STATE



NORTH

HORIZONTAL SCALE: 1"=20'

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- RAILROAD TRACK

- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- STEEL SURFACE

REVISIONS _____

APPROVALS _____

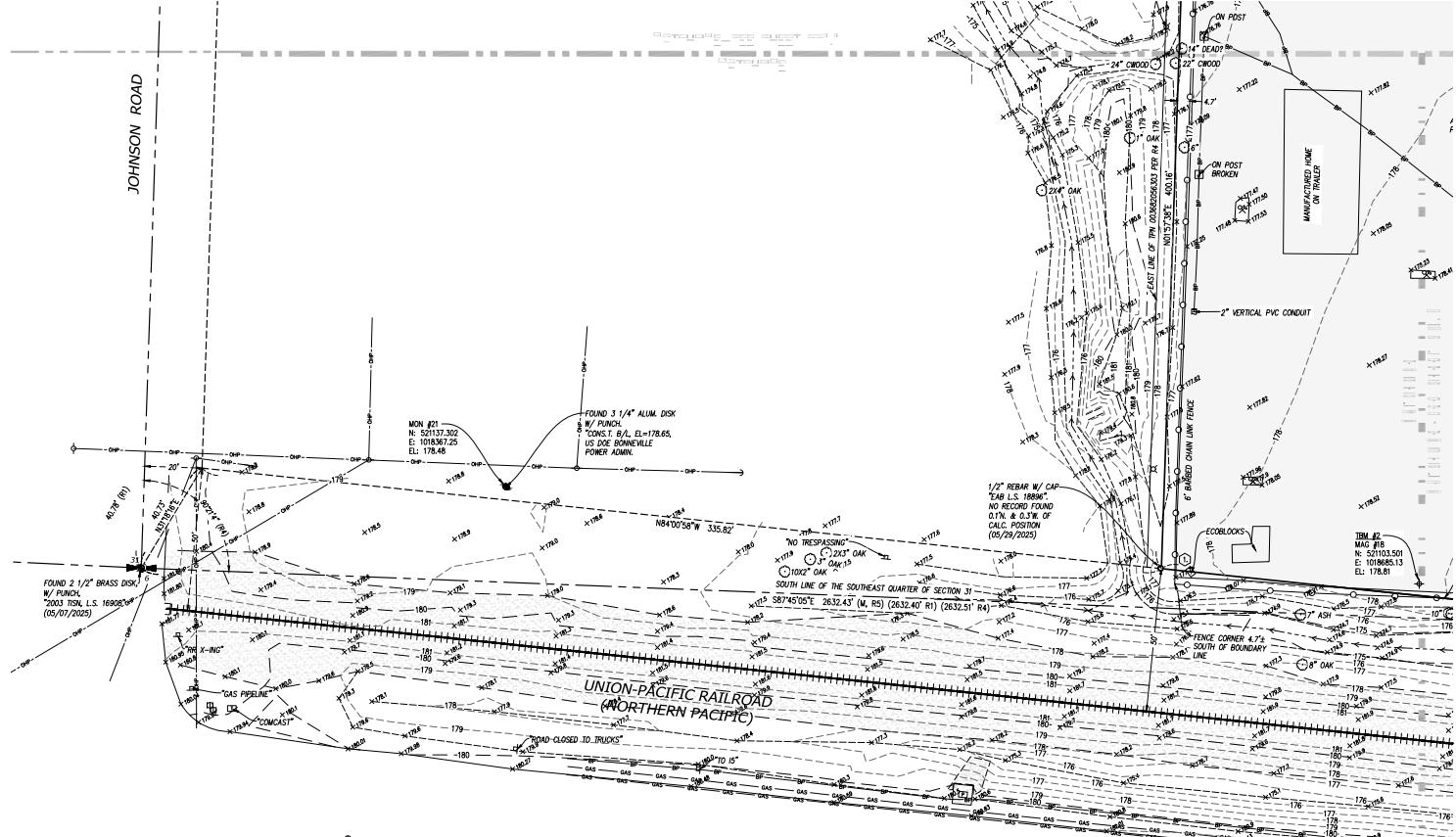
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- ASPHALT SURFACE
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- RIP-RAP SURFACE
- STEEL SURFACE

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- SV1.3 SV1.4 SV1.5

- SHEET NO. 1

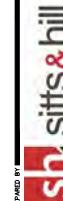
- PROJECT NO. 20862

- SHEET NO. 1

- DATE 12/03/2025

- SCALE 1:2000

- IS. 8067



sitts & hill
 PREPARED BY
 CIVIL STRUCTURAL ARCHITECTURAL SURVEY
 4811 CENTER STREET
 TACOMA, WA 98409
 PHONE: (253) 744-5153
<http://www.sithill.com>

REVISIONS

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DATE 12/03/2025

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BOUNDARY AND TOPOGRAPHIC SURVEY
3 SANFORDS, LLC.

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NORTH
HORIZONTAL SCALE: 1"-20'

APPROVED FOR CONSTRUCTION
CITY ENGINEER _____ DATE _____
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

LEGEND

- FOUND MONUMENT AS NOTED
- CALCULATED MONUMENT POSITION
- FOUND REBAR / IRON PIPE AS NOTED
- ♦ SURVEY CONTROL POINT, AS NOTED
- CLEAN OUT
- SANITARY SEWER MANHOLE
- △ STORM CATCH BASIN
- ◀ STORM CULVERT
- ROOF DRAIN
- WATER VALVE
- ◆ WATER METER
- ◊ FIRE HYDRANT
- ◆ FIRE DEPARTMENT CONNECTION
- ✖ POST INDICATOR VALVE
- ✖ IRRIGATION CONTROL VALVE

- [W] WATER VAULT
- [G] GAS VALVE
- [M] GAS METER
- ◇ GUY ANCHOR
- [J] JUNCTION BOX
- [P] POWER VAULT
- [C] POWER CABINET
- ▲ LIGHT POLE
- [E] ELECTRIC METER
- [R] PHONE TRANSFORMER
- [T] TELECOM JUNCTION BOX
- [H] HVAC UNIT
- [V] VACUUM VAULT
- [C] COLUMN
- [P] PILE
- [G] GATE POST
- [S] SIGN
- [M] MAILBOX
- A. SAMPLE PIT
- DECIDUOUS TREE
- EVERGREEN TREE
- ROCK
- DOOR CENTERLINE
- FF FINISH FLOOR ELEVATION
- TPN TAX PARCEL NUMBER

- BOUNDARY LINE
- LOT LINE
- SECTION LINE
- ROAD CENTERLINE
- RIGHT OF WAY LINE
- EASEMENT LINE
- PARCEL LINE (W/ LEWIS COUNTY GIS)
- SD SD
- SS SS
- W W
- V V
- E E
- BP BP
- GAS GAS
- BURIED GAS LINE
- BURIED POWER LINE
- BURIED TELECOMMUNICATIONS LINE
- OVERHEAD POWER LINE
- MISCELLANEOUS UTILITY LINE
- DITCH LINE
- FENCE
- RAILROAD TRACK

- ASPHALT SURFACE
- CONCRETE SURFACE
- GRAVEL SURFACE
- RIP-RAP SURFACE
- STEEL SURFACE

- KEYPLAN

- NORTH

- PROJECT

- SHEET

- NUMBER

- APPROVALS

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TPN'003682056303'
BONNEVILLE POWER
ADMINISTRATION

TPN'003682056300'

OVERHEAD DOOR
CORPORATION

INDUSTRIAL DR.

TPN'003682056041'

INDUSTRIAL DR.
(LUM RD.)

TPN'003682056039'
LAFARGE NORTH
AMERICA INC.

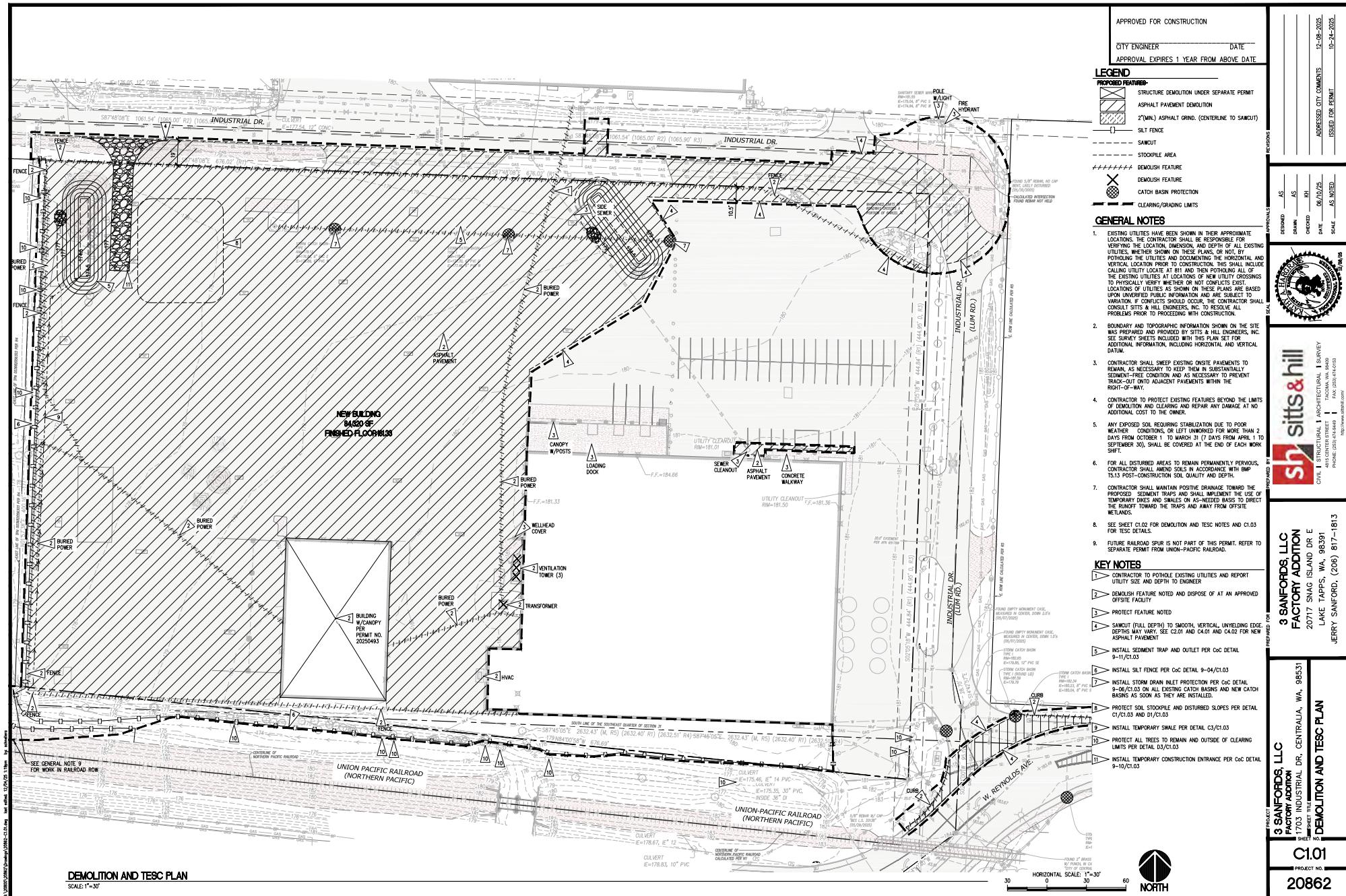
UNION PACIFIC RAILROAD
(NORTHERN PARCIFIC)

W. REYNOLDS AVE.

AERIAL EXHIBIT - 1703 INDUSTRIAL DR. CENTRALIA, WA 98531

IMAGERY SOURCE: NEARMAP, APRIL 13 2025
IMAGERY FOR ILLUSTRATIVE PURPOSES ONLY

PROJECT NO.	3 SANFORDS, LLC FACTORY ADDITION		PREPARED FOR	REVISIONS
SHEET NO.	20717 SNAG ISLAND DR E LAKE TAPPS, WA 98531 JERRY SANFORD, (206) 817-1813		3 SANFORDS, LLC FACTORY ADDITION	APPROVALS
SHEET NAME	20703 INDUSTRIAL DR. CENTRALIA, WA, 98531 TOPOGRAPHIC SURVEY		APPROVED DRAWN CHECKED SCALE	SEAL
SV1.6			12/03/2025 1:6,000 S.S. RODD	
PROJECT NO.	20862		PREPARED BY sitts & hill CIVIL STRUCTURAL ARCHITECTURAL SURVEY 4811 CENTER STREET TACOMA, WA 98409 PHONE: (253) 474-0449 FAX: (253) 474-0553 http://www.sith.com/	



<p>1</p> <p>A</p> <p>APPROVED BY: [Signature] REVISED DATE: 06/2007 CITY OF CENTRALIA: SILT FENCE 2002 Standard Drawings</p>	<p>2</p> <p>B</p> <p>APPROVED BY: [Signature] REVISED DATE: 06/2007 CITY OF CENTRALIA: STORM DRAIN INLET PROTECTION 2002 Standard Drawings</p>	<p>3</p> <p>C</p> <p>APPROVED BY: [Signature] REVISED DATE: 06/2007 CITY OF CENTRALIA: TEMPORARY SEDIMENT TRAP 2002 Standard Drawings</p>	<p>4</p> <p>APPROVED FOR CONSTRUCTION</p> <p>CITY ENGINEER _____ DATE _____ APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE</p> <p>REVISIONS _____</p> <p>APPROVALS _____</p> <p>DESIGNED AS _____ DRAWN AS _____ CHECKED RH _____ DATE 06/24/07 SCALE 1:6400 IS RATED</p> <p>12-08-2005 12-24-2005 ADRESSED CITY COMMENTS ISSUED FOR PERMIT</p> <p>SEAL</p> <p>sitts & hill CIVIL STRUCTURAL ARCHITECTURAL SURVEY 4819 CENTER STREET TACOMA, WA 98450 PHONE: (206) 214-5449 FAX: (206) 214-5450 http://www.sith.com</p>
<p>NOTE: 1. Verify location of stormwater by utility lines or the storm water structure is being built. 2. Use the silt fence as a guide when installing erosion control measures. 3. Install all fencing along contours whenever possible. 4. Install the fence posts at least 10' apart along contour lines. 5. Post heights must be consistent with the design specification. 6. Post heights must be consistent with the design specification.</p> <p>NOTES: 1. Slope the Storm Inlet Grate Device (SIGD) by the storm water structure 8-10% min. 2. The SIGD shall have a built-in high-flow relief system (overflow bypass). 3. The relief system must allow removal of the SIGD without spelling the collected rainfall. 4. Permit modifications to be consistent with Standard Specification 8-01-21G.</p> <p>NOTES: 1. Refer to Plastic Covering Notes on Sheet C1-02. 2. All seams to be taped or weighted down with sand bags at 10' centers along the seam. 3. Stake and sand bag (typ.) 4. Clear plastic covering 5. 2'x2'x3' wooden stake 6. Sand bag 7. 1' overlap - all seams to be taped or weighted down with sand bags at 10' centers along the seam 8. SECTION A-A 9. OVERLAP DETAIL 10. SLOPE 11. 10' 12. 20' 13. 10' 14. 10'</p> <p>CI PLASTIC COVERING DETAIL (TO MANTAIN STOCKPILES CREATED BY THE CONTRACTOR AND SLOPES). SCALE N.T.S.</p> <p>NOTE: 1. Refer to Straw Wattle Notes on Sheet C1-02. 2. SEE WATTLE SPACING (TYP.) 3. SEE WATTLE SPACING TABLE 4. SEE WATTLE DETAIL 5. SEE WATTLE SPACING AREA (TYP.) 6. STRAW WATTLE 7. TRENCH SEE NOTE 1 8. 2' MIN. 9. 4' MAX. 10. 1'-0" MIN. 11. 1'-0" MAX. 12. 1'-0" MAX. 13. 1'-0" MAX. 14. 1'-0" MAX. 15. 1'-0" MAX. 16. 1'-0" MAX. 17. 1'-0" MAX. 18. 1'-0" MAX. 19. 1'-0" MAX. 20. 1'-0" MAX. 21. 1'-0" MAX. 22. 1'-0" MAX. 23. 1'-0" MAX. 24. 1'-0" MAX. 25. 1'-0" MAX. 26. 1'-0" MAX. 27. 1'-0" MAX. 28. 1'-0" MAX. 29. 1'-0" MAX. 30. 1'-0" MAX. 31. 1'-0" MAX. 32. 1'-0" MAX. 33. 1'-0" MAX. 34. 1'-0" MAX. 35. 1'-0" MAX. 36. 1'-0" MAX. 37. 1'-0" MAX. 38. 1'-0" MAX. 39. 1'-0" MAX. 40. 1'-0" MAX. 41. 1'-0" MAX. 42. 1'-0" MAX. 43. 1'-0" MAX. 44. 1'-0" MAX. 45. 1'-0" MAX. 46. 1'-0" MAX. 47. 1'-0" MAX. 48. 1'-0" MAX. 49. 1'-0" MAX. 50. 1'-0" MAX. 51. 1'-0" MAX. 52. 1'-0" MAX. 53. 1'-0" MAX. 54. 1'-0" MAX. 55. 1'-0" MAX. 56. 1'-0" MAX. 57. 1'-0" MAX. 58. 1'-0" MAX. 59. 1'-0" MAX. 60. 1'-0" MAX. 61. 1'-0" MAX. 62. 1'-0" MAX. 63. 1'-0" MAX. 64. 1'-0" MAX. 65. 1'-0" MAX. 66. 1'-0" MAX. 67. 1'-0" MAX. 68. 1'-0" MAX. 69. 1'-0" MAX. 70. 1'-0" MAX. 71. 1'-0" MAX. 72. 1'-0" MAX. 73. 1'-0" MAX. 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APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

12-08-2025
ADRESSED CITY COMMENTS
ISSUED FOR PERMIT
10-24-2025

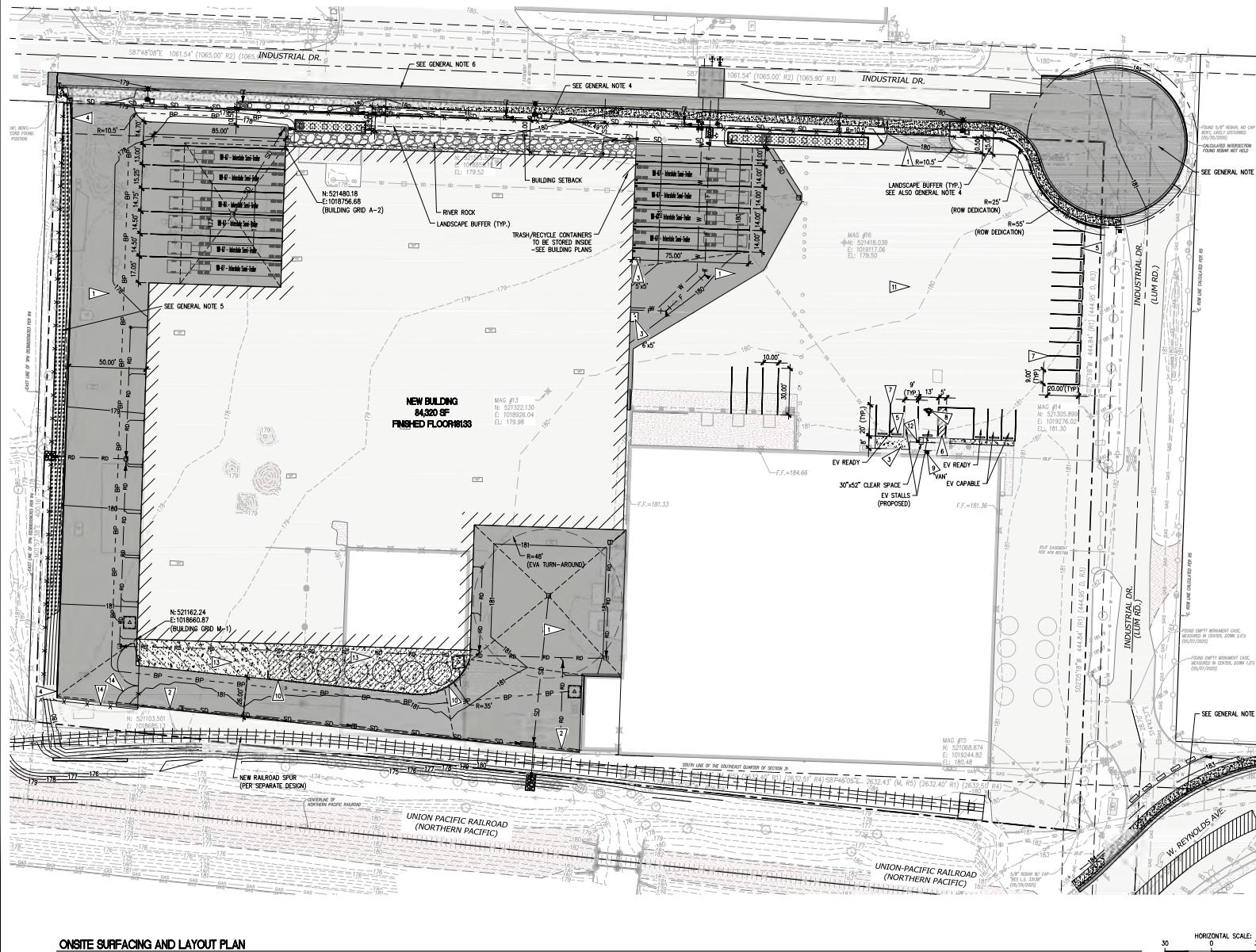
LEGEND
PROPOSED FEATURES:
HOT MIX ASPHALT (HMA) PAVEMENT
CONCRETE SURFACING
HOT MIX ASPHALT (HMA) BARRIER CURB
CAST-IN-PLACE CONCRETE CURB

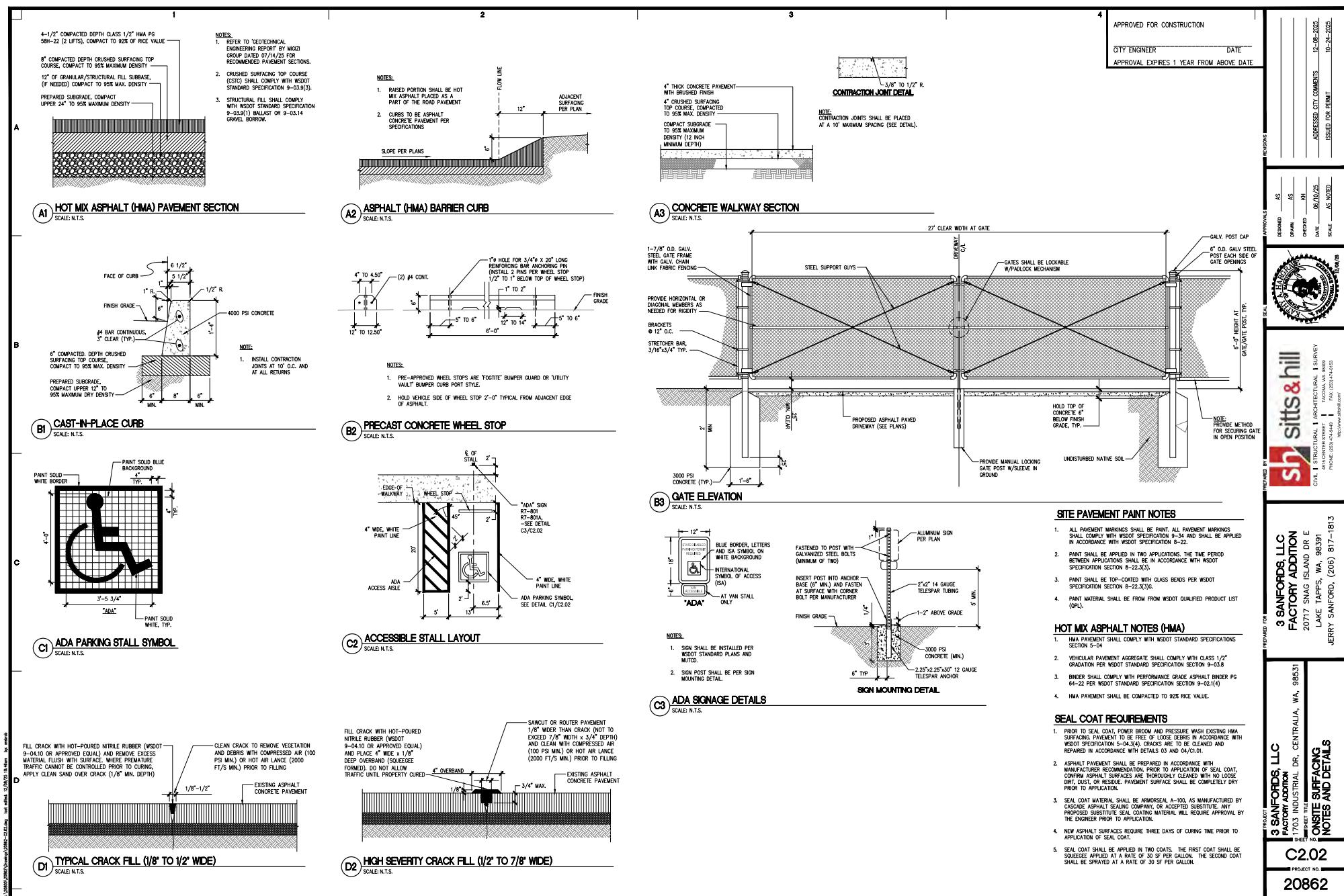
REVISIONS
DRAWN AS
CHECKED AS
DATE 06/02/25
SHEET IS 8061



sitts & hill
CIVIL STRUCTURAL ARCHITECTURAL SURVEY
4819 CENTER STREET TACOMA, WA 98409
PHONE: (206) 474-5153
http://www.sith.com

PROJECT
3 SANFORDS, LLC
FACTORY ADDITION
20717 SNAG ISLAND DR E
LAKE TAHOE, WA 98351
JERRY SANFORD, (206) 817-1813
SHEET
ON-SITE SURFACING AND LAYOUT PLAN
C2.01
PROJECT NO. 20862
SHEET NO. 703
HORIZONTAL SCALE: 1"-30'
NORTH





APPROVED FOR CONSTRUCTION

CITY ENGINEER DATE
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

REVISIONS
12-08-2025
ADRESSED CITY COMMENTS
ISSUED FOR PERMIT

LEGEND

PROPOSED FEATURES	SD	STORM DRAIN PIPE
TYPE 1 OR CONCRETE INLET CATCH BASIN	□	
TYPE 2 CATCH BASIN	○	
PERK FILTER CATCH BASIN	■	
INFILTRATION TRENCH		
180	CONTOUR MAJOR	
179	CONTOUR MINOR	
—	GRADE BREAK	
- - -	DAYLIGHT/CATCH LINE	

APPROVALS	REVISIONS
AS	AS
DRN	DRN
CHEK	RH
DATE	06/02/25
DATE	06/02/25
DATE	06/02/25



sitts & hill
CIVIL STRUCTURAL ARCHITECTURAL SURVEY
4819 CENTER STREET TACOMA, WA 98409
PHONE: (253) 474-5449 FAX: (253) 474-5153
<http://www.sithill.com>

PROJECT NO. 3 SANFORDS, LLC
SHEET NO. 703 INDUSTRIAL DR. E
ON SITE GRAVING AND DRAINAGE PLAN

SHEET NO. 703 INDUSTRIAL DR. E

ON SITE
GRAVING AND DRAINAGE PLAN

20862

GENERAL NOTES

- ALL BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATIONS WHERE KNOWN BASED ON FIELD SURVEY PROVIDED BY SITS & HILL. THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE THEIR LOCATION MARKED ON THE SURFACE. THE CONTRACTOR SHALL NOT DAMAGE ANY UTILITIES. ALL PROTECT, OR IMMEDIATELY REPAIR, ANY DAMAGED UTILITY DISCOVERED DURING THIS PROJECT WITHOUT ADDITIONAL COSTS.
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SITS & HILL ENGINEERS, INC. SEE SHEET A1 FOR HORIZONTAL AND VERTICAL DATUM.
- ALL CATCH BASIN LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL SET THESE AS NECESSARY TO MATCH CROSS SLOPE OF THE FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES AND COVERS.
- SPOT ELEVATIONS ARE PROVIDED ON THE PLAN AT THE BOTTOM OF CURB, CURB FLOWLINE, EDGE OF PAVEMENT, EDGE OF CONCRETE, AND OTHER FACILITIES AS SHOWN ON THE PLAN.
- CONTRACTOR AND/P/S SURVEYOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FIELD STAKING AND CONSTRUCTION.
- ALL STORM DRAIN SYSTEMS ARE TO BE PROVIDED FOR MAINTAINING ALL STORM SYSTEMS EXISTING AND PROPOSED AND TESC FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
- REFER TO SHEET C3.04 FOR ON SITE STORM DRAINAGE SYSTEM NOTES.
- REFER TO SHEET C3.02 FOR THE SPECIFICATIONS OF THE STORM SYSTEM ELEMENTS.
- REFER TO SHEET C3.04 FOR ON SITE STORM DRAINAGE PROFILES.

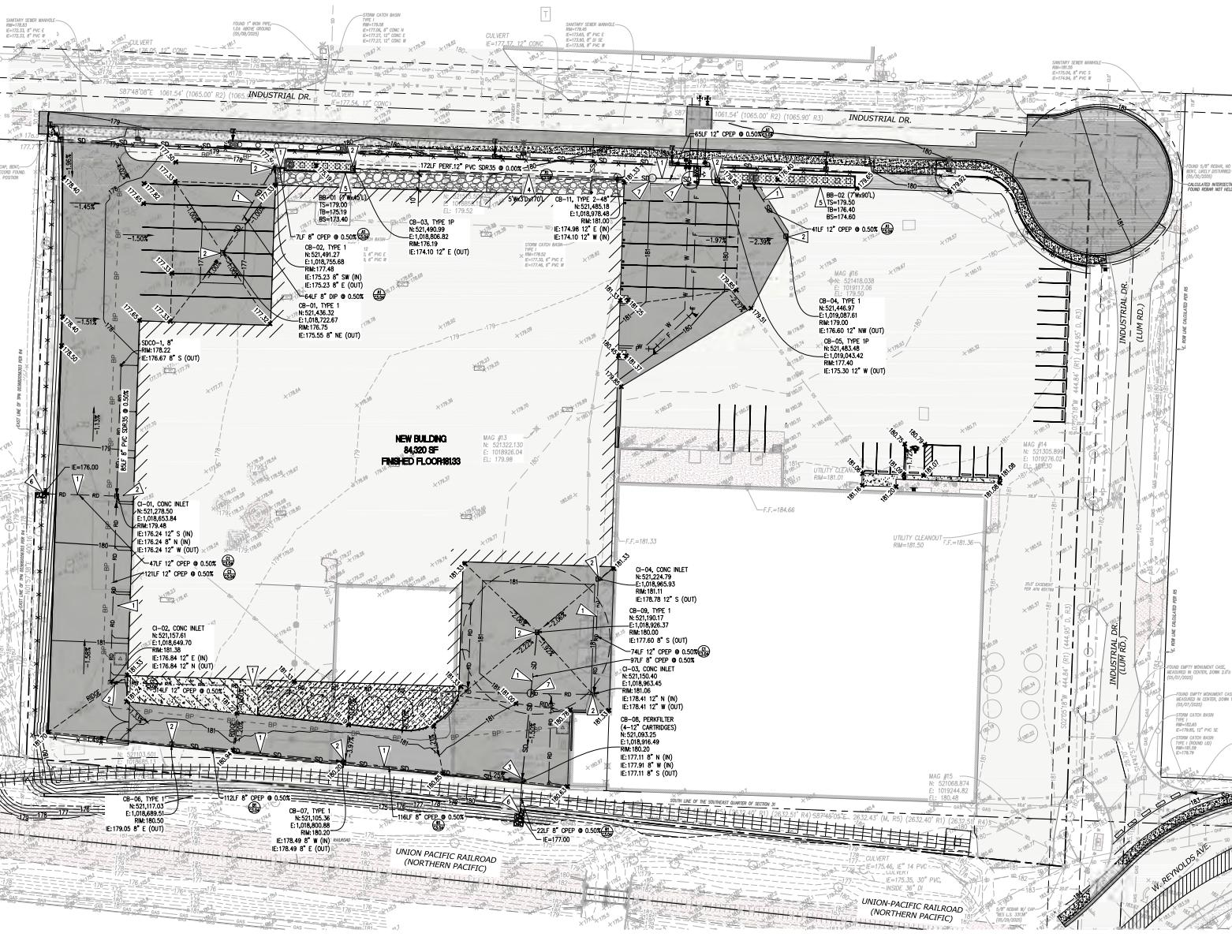
KEY NOTES

- INSTALL STORM DRAIN (SD) OR ROOF DRAIN (RD) PIPE, PIPE SIZE, MATERIAL, AND SLOPE PER PLAN CALLOUT PIPE BEARING PER DETAIL A2/C3.02. SEE PIPE PROFILES ON C3.03
- INSTALL CATCH BASIN AS NOTED. LOCATION (NORTHING & EASTING), STRUCTURE TYPE, SIZE, AND GRATE TYPE PER PLAN & PROFILES CALLOUTS. FOR TYPE 1P W/DOWNTURNED ELBOW, SEE DETAIL A2/C3.03
- INSTALL PERK FILTER CATCH BASIN WITH 4-12" CARTRIDGES PER DETAIL D1/C3.02
- INSTALL EMPTY MONUMENT CASE, MEASURED IN CENTER, 20IN X 20IN X 20IN
- INSTALL EMPTY MONUMENT CASE, MEASURED IN CENTER, 20IN X 20IN X 20IN
- INSTALL BIORETENTION BOX (BB, INSIDE DIMENSIONS) WITH GRATED OPENINGS PER DETAIL A1/C3.03. SIZE PER PLAN.
- INSTALL PIPE OUTLET PROTECTION PER DETAIL A1/C3.02
- INSTALL CDF BACKFILL AROUND PIPE CROSSING DUE TO LIMITED VERTICAL CLEARANCE (LESS THAN 18"). SEE CDF SPECIFICATIONS ON C3.02.

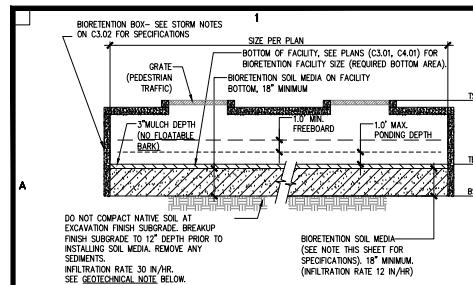
ABBREVIATIONS

TS	TOP OF BOX STRUCTURE/RIM
TM	TOP OF MONUMENT
BB	BIORETENTION BOX
CF	CONCRETE FILTER
CI	CONCRETE INLET CATCH BASIN
SDCC	STORM DRAIN CLEANOUT

30 0 30 60
HORIZONTAL SCALE: 1"-30'
NORTH



ONSITE GRAVING AND DRAINAGE PLAN
SCALE: 1"-30'

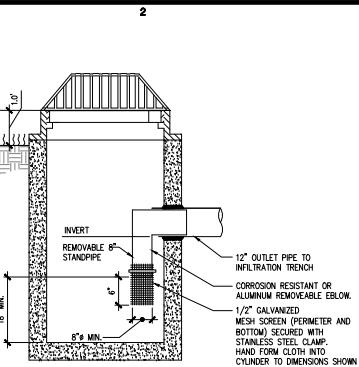


A1 BIORETENTION FACILITY CROSS SECTION

SCALE: N.T.S.

A2 TYPE IP CB WITH DOWNTURNED ELBOW AND SCREEN

SCALE: N.T.S.



APPROVED FOR CONSTRUCTION

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

12-08-2023
ADRESSED CITY COMMENTS
ISSUED FOR PERMIT

REVISIONS	APPROVALS	SEAL
	AS	
	AS	
	RH	
	DATE 06/05/25 SCALE 1/800	10-24-2025

BIORETENTION SOIL MEDIA NOTES

THE BIORETENTION SOIL MEDIA (BSM) SHALL MEET THE FOLLOWING STANDARDS:

- * HAVE A 60-65% MINERAL AGGREGATE COMPONENT BY VOLUME AS SPECIFIED BELOW AND A 35-40% COMPOST COMPONENT BY VOLUME AS SPECIFIED BELOW.
- * HAVE ORGANIC MATTER CONTENT OF 5-8% BY WEIGHT.
- * HAVE A CATION EXCHANGE CAPACITY (CEC) GREATER THAN OR EQUAL TO FIVE EQUIVALENTS / 100 G DRY SOIL. REQUIREMENTS ABOVE SPECIFICATIONS DO NOT HAVE TO BE TESTED FOR CEC VALUE; IT IS ASSUMED THE CEC VALUE IS MET.

THE MINERAL AGGREGATE COMPONENT SHALL MEET THE FOLLOWING STANDARDS:

- * HAVE A MAXIMUM OF 5% FINES WITH AN IDEAL RANGE BETWEEN 2-4% FINES USING ASTM D422.
- * BE WELL GRADED. ACCORDING TO ASTM D 2487-98, WELL GRADED SAND SHOULD HAVE THE FOLLOWING GRADUATION COEFFICIENTS:

 - * COEFFICIENT OF UNIFORMITY ($Cu = D_{60}/D_{10}$) EQUAL TO OR GREATER THAN FOUR, AND
 - * COEFFICIENT OF CURVE $C_c = (D_{30}/D_{10}) \times (D_{10}/D_{50})$ EQUAL TO OR GREATER THAN ONE AND LESS THAN OR EQUAL TO THREE.

- * MEET THE GRADUATION PRESENTED IN THE TABLE BELOW.

BIORETENTION SOIL MIX AGGREGATE COMPONENT GRADATION	
SIZE SIZE	PERCENT PASSING
2"	100
#4	95-100
#10	75-90
#20	20-30
#40	4-10
#60	2-5

COMPOST USED AS A COMPONENT OF THE DEFAULT BIORETENTION SOIL MIX (BSM) IN BIORETENTION FACILITIES SHALL MEET THE SPECIFICATIONS BELOW:

MEETS THE DEFINITION OF COMPOSTED MATERIAL IN WAC 173-350-100 AND COMPLIES WITH TESTING PARAMETERS AND OTHER STANDARDS IN WAC 173-350-220.

PRODUCED AT A COMPOSTING FACILITY THAT IS PERMITTED BY THE JURISDICTIONAL HEALTH AUTHORITY.

THE COMPOST PRODUCT MUST ORIGINATE FROM A FEED STOCK THAT CONTAINS A MINIMUM OF 65% BY WEIGHT RECYCLED PLANT WASTE COMPRISING OF YARD DEBRIS, CROP RESIDUES AND BULKING AGENTS. THE REMAINDER OF THE FEED STOCK MAY INCLUDE OTHER MATERIALS, INCLUDING VOLUNTARY POST CONSUMER FOOD WASTE. BIOSOLIDS ARE NOT ALLOWED. TERMS ARE DEFINED IN WAC 173-350-100.

STABLE (LOW OXYGEN USE AND COD GENERATION) AND MATURE (CAPABLE OF SUPPORTING PLANT GROWTH) BY TEST SHOWN BELOW. THIS IS CRITICAL TO PLANT SUCCESS IN A BIORETENTION SOIL MIX.

MOISTURE CONTENT RANGE: NO VISIBLY FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL.

TESTED IN ACCORDANCE WITH U.S. COMPOSTING COUNCIL TEST METHOD FOR THE EXAMINATION OF COMPOST AND COMPOSING (TMCC), AS ESTABLISHED IN THE COMPOSTING COUNCIL'S SEAL OF TESTING ASSURANCE (STA) PROGRAM.

BE FINE COMPOST MEETING THE FOLLOWING SIDE GRADUATION (BY DRY WEIGHT) WHEN TESTED IN ACCORDANCE WITH TMCC TEST METHOD 02.02B, SAMPLING SIEVING FOR AGREEMENT SIZE CLASSIFICATION:

SIZE SIZE	MINIMUM PERCENT PASSING
2"	90
1"	99
5/8"	90
1/4"	75

PH BETWEEN 6.0 – 8.5 (TMCC 04.11-A).

PHYSICAL CONTAMINANTS (AS DEFINED IN WAC 173-350-100) CONTENT LESS THAN 1% BY WEIGHT (TMCC 03.08A) TOTAL, NOT TO EXCEED 0.25 PERCENT FILM PLASTIC BY DRY WEIGHT.

MINIMUM ORGANIC MATTER CONTENT OF 40% d5/m (mmhos/cm) (TMCC 4.10-A ELECTRICAL CONDUCTIVITY, 1.5 SLURRY METHOD, MASS BASIS).

MATURITY INDICATORS FROM A CUCUMBER BIOASSAY (TMCC 05.05-A SEEDING EMERGENCE AND RELATIVE GROWTH) MUST BE GREATER THAN 80% FOR BOTH EMERGENCE AND VGR.

STABILITY OF 7m CO2-C/g OM/DAY OR BELOW (TMCC 05.08-B CARBON DIOXIDE EVOLUTION RATE).

CARBON TO NITROGEN RATIO (TMCC 05.02-A CARBON TO NITROGEN RATIO), WHICH USES 0.01 ORGANIC CARBON AND 0.402-N TOTAL, WHICH IS 1.00 TO 1.00 OXIDIZED CARBON TO 25:1. THE C:N RATIO MAY BE UP TO 30:1 FOR PLANTING COMPOST DENSITY OF 1.25 TO 1.30. SOUND LOCAL AND NATIVE SPECIES AND UP TO 40:1 FOR COARSE COMPOST TO BE USED AS A SURFACE MULCH (NOT IN A SOIL MIX).

PRE-APPROVED BIORETENTION SOIL MEDIA.

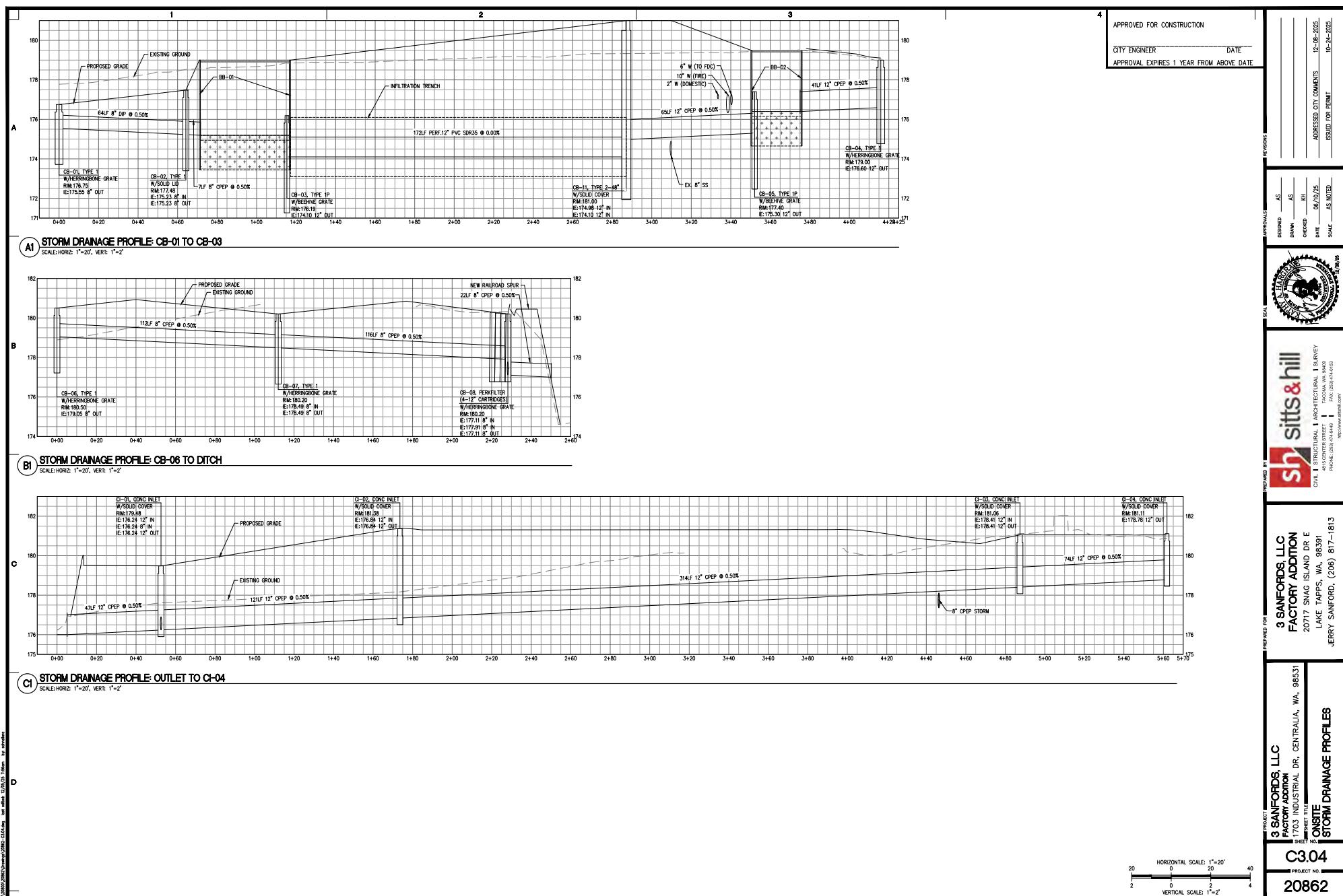
CEDARROVE BIORETENTION SOIL MIX – 18" MIN. DEPTH.

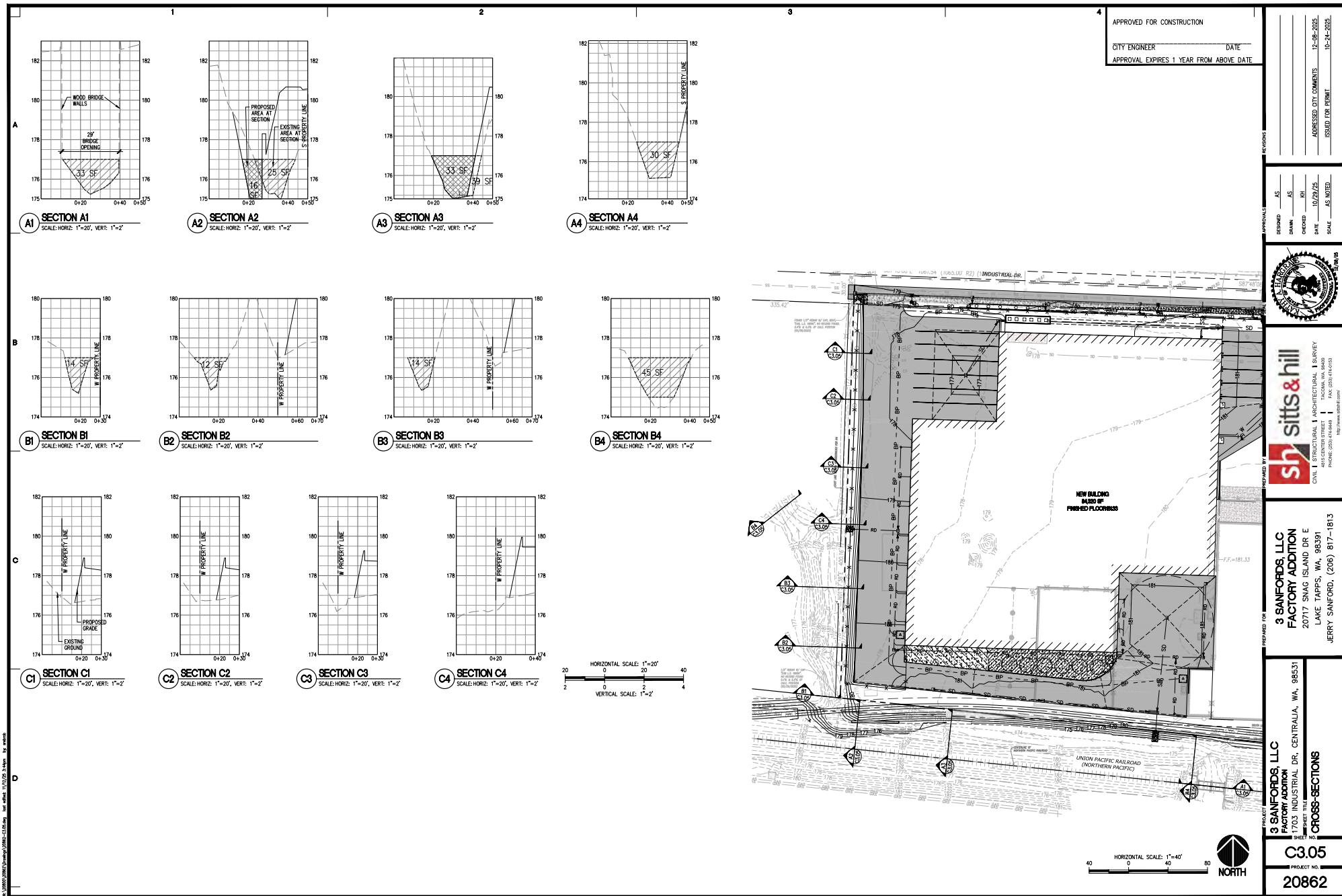
BIORETENTION AREA MULCH: BIORETENTION SOIL SHALL BE COVERED WITH 3 INCHES OF CLEAN WOOD CHIP MEETING THE FOLLOWING PARTICLE SIZE SPECIFICATION IN ALL AREAS WHERE SLOPES ARE LESS THAN 20%.

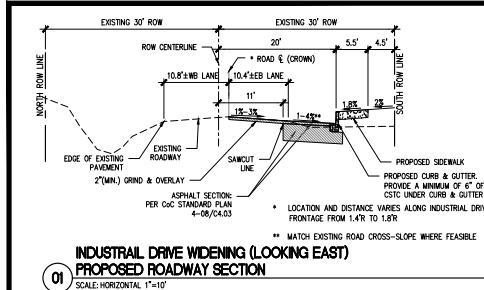
SIZE SIZE	PERCENT PASSING
2"	100
1"	70-100
5/8"	90
1/4"	0-40

CONTRACTOR SHALL NOTIFY THE ENGINEER TO INSPECT EACH BIORETENTION CELL PRIOR TO PLACEMENT OF WOOD CHIP MULCH. IF ANY SEDIMENT-LADEN RUNOFF HAS ENTERED THE CELL, THE CONTRACTOR SHALL REMOVE THE TOP 3 INCHES OF BIORETENTION SOIL AND REPLACE WITH BIORETENTION SOIL AT THE CONTRACTOR'S EXPENSE.

PROJECT NO.	3 SANFORDS, LLC	FACTORY ADDITION	PREPARED FOR
SHEET NO.	7073	INDUSTRIAL DR. CENTRALIA, WA.	4817 SNAG ISLAND DR. E
SHEET NAME	GRADING AND DRAINAGE	LAKE TAPPS, WA. 98531	TACOMA, WA 98409
NOTES AND DETAILS	C3.03		
PROJECT NO.	20862		







INDUSTRIAL DRIVE WIDENING (LOOKING EAST)

01 PROPOSED ROADWAY SECTION

LEGEND

PROPOSED FEATURES

- SD STORM DRAIN PIPE
- TYPE 1 OR CONCRETE INLET CATCH BASIN
- [] INFILTRATION TRENCH
- 180 CONTOUR MAJOR
- 179 CONTOUR MINOR
- — GRADE BREAK
- — DAYLIGHT/CATCH LINE
- ASPHALT PAVEMENT (FULL DEPTH)
- 2" GRIND & OVERLAY
- CONCRETE SIDEWALK/DRIVEWAY
- CONCRETE CURB & GUTTER
- STREET LIGHT AND BOX

GENERAL NOTES

1. THE BURIED UTILITIES ON THIS PROJECT ARE SHOWN IN THEIR APPROXIMATE LOCATION WHERE KNOWN BASED ON FIELD SURVEY PERFORMED BY SITS & HILL, INC. AND THE CONTRACTOR. THE CONTRACTOR SHALL MARK THE APPROXIMATE LOCATION MARKED ON THE GROUND PRIOR TO CONSTRUCTION. THE CONTRACTOR WILL PROTECT, OR IMMEDIATELY REPAIR ANY DAMAGE TO UTILITIES DISCOVERED ON THIS PROJECT WITHOUT ADDITIONAL COSTS.
 2. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN ON THE SITE WAS PREPARED AND PROVIDED BY SURVEYORS/ENGINEERS, INC. SEE SHEET SW.0 FOR HORIZONTAL AND VERTICAL DATUM.
 3. ALL CATCH BASIN FRAMES ARE TO BE PLOT-DOWN. THE CONTRACTOR SHALL SET FRAMES AS NECESSARY TO MATCH CROSS-SLOPE OF THE FINISHED GRADE AND SUCH THAT NO PONDING OCCURS AROUND UTILITY GRATES OR COVERS.
 4. SPOT ELEVATIONS ARE PROVIDED ON THE PLAN AT THE BOTTOM OF CURB, CURB FLUMLINE EDGE OF PAVEMENT, EDGE OF CONCRETE, OR BUILDING FACE UNLESS NOTED OTHERWISE.
 5. CONTRACTOR AND/or SURVOR SHALL CALCULATE PIPE SLOPES BASED ON THE INVERT ELEVATIONS SHOWN ON THE PLANS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO FLOOR STAKING AND CONSTRUCTION.
 6. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING ALL STORM SYSTEMS (EXISTING AND PROPOSED) AND TEST FACILITIES THROUGH THE CONSTRUCTION AND PROJECT COMPLETION.
 7. COORDINATE LOCATION OF STREET LIGHT METER WITH CENTRALIA CITY LIGHT.

STORM DRAINAGE KEY NOTES

- INSTALL STORM DRAINAGE PIPE. PIPE SIZE, MATERIAL AND SLOPE PER PLAN/PROFILE CALLOUT. PIPE BEADING PER DETAILS A3/C3.02
 - INSTALL CONCRETE INLET CATCH BASIN AT LOCATION (STATION & OFFSET). RM, INVERT AND GRADE PER PROFILE CALLOUT. SEE GENERAL NOTE
 - INSTALL 1' CATCH BASIN AT LOCATION (STATION & OFFSET). RM, INVERT AND GRADE ADDED PER PROFILE CALLOUT. SEE CGC STANDARD PLAN 9-01/C4.04
 - INSTALL BIORETENTION BOX PER DETAIL A1/C3.03. SIZE PER PLAN/PROFILE CALLOUT.
 - INSTALL INfiltration TRENCH PER DETAIL PA/C4.02. SIZE PER PLAN AND PROFILE. PROVIDE INDICATION OF TRENCH PERFORMANCE AS NOTED ON BA/C3.02
 - INSTALL CDF BACKFILL AT PIPE CROSSING WITH LIMITED CLEARANCE (LESS THAN 18"). SEE C3.02 FOR CDF SPECIFICATIONS.

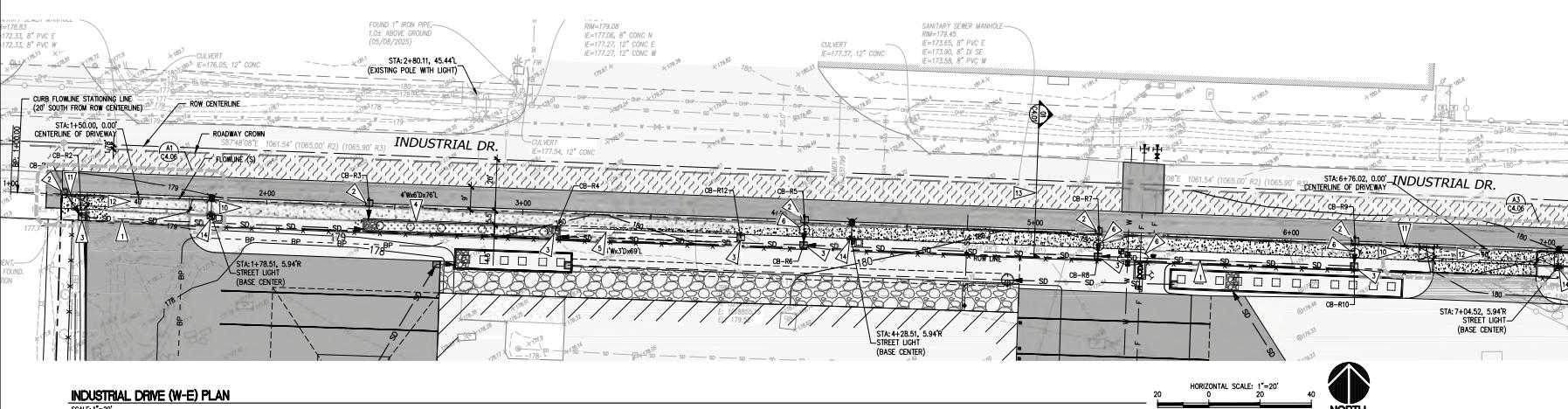
APPROVED FOR CONSTRUCTION

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

SUMMARY INFORMATION

12-08-2025

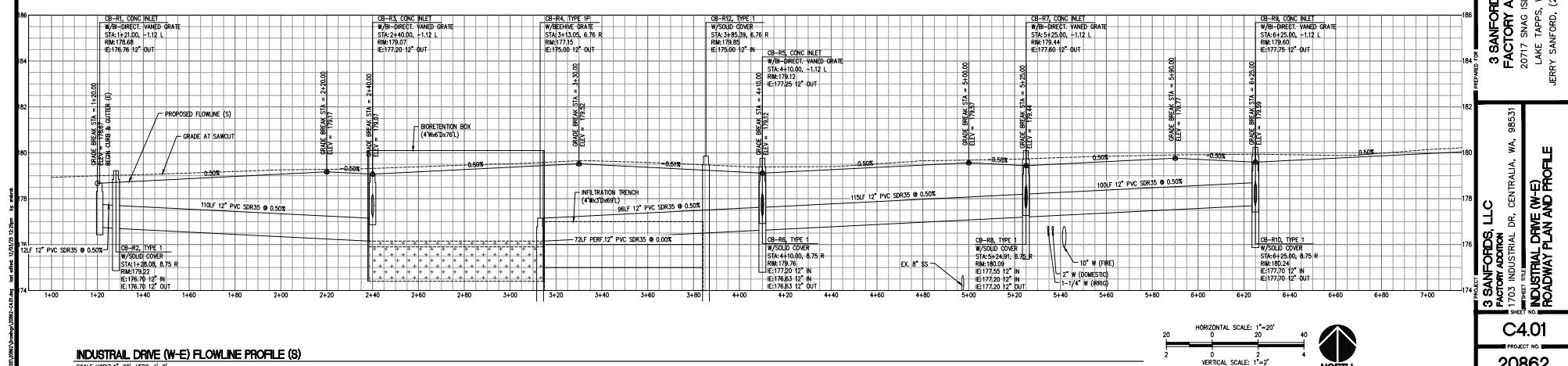
11



INDUSTRIAL DRIVE (W-E) PLAN

SCALE: 1"=20'

The North logo, which consists of a stylized arrow pointing upwards and to the right, enclosed in a circle.



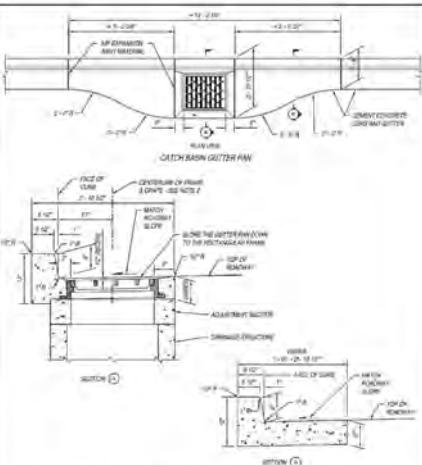
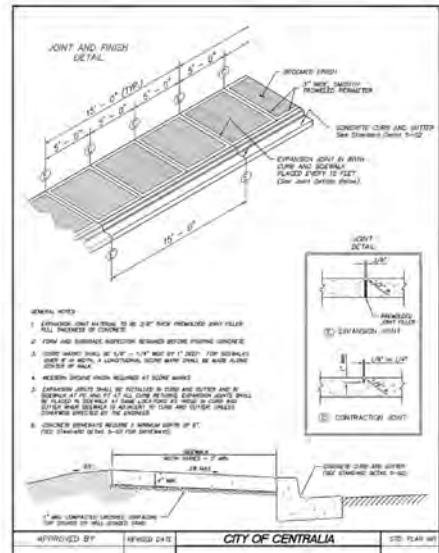
INDUSTRIAL DRIVE (W-E) FLOWLINE PROFILE (S)

SCALE: HORIZ: 1" = 20' VERT: 1" = 1'

3 SANFORDS, LLC
FACTORY ADDITION
703 INDUSTRIAL DR, CENTRALIA, WA
INDUSTRIAL DRIVE (W-E)

SHEET NO.
C4.0
PROJECT NO.
2086

STREET CONSTRUCTION GENERAL NOTES	
<p>1. All workmanship and materials shall be in accordance with City of Centralia standards and the most current edition of the WSDOT/APMA Standard Specifications for Asphalt, Bituminous, and Aggregate Construction.</p> <p>2. The contractor shall be responsible for 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 shall commence until an approved traffic control is in place.</p> <p>3. All street grades, sidewalk grades, curbs, any other vertical and/or horizontal alignment shall be stated by an engineering or surveying firm capable of such work. All vertical control shall be established using the 1988 USGS datum.</p> <p>4. Where new asphalt joints exist, the existing asphalt shall be cut (or a new, vertical edge shall be added with Asphalt Emulsion Type C50-1 in accordance with WSDOT Standard Specifications). The new asphalt shall be feathered back over existing in private for a least of the base cut location and the joint sealed with great AR-4000W paving asphalt.</p> <p>5. Compaction requirements of trench restoration, sidewalks and paved areas shall be in accordance with the current edition of the W.S.O.D.T. Standard Specifications.</p> <p>6. Form and surface inspection by the City is required before pouring concrete. Twenty-four hours notice is required for form inspection.</p> <p>7. Testing and sampling frequencies shall be as described in the General Design and Development Guidelines.</p> <p>8. The City provides for the manufacture and installation of street name and regulatory signs at the contractor's developer's expense. Signs shall be requested at the time construction begins.</p> <p>9. The contractor shall obtain a right-of-way permit from the Engineering Department prior to doing any construction in the right-of-way.</p> <p>10. All temporary patches will require application of cold mix asphalt. Cold mix will be monitored daily or as required by the City Engineer to ensure a smooth driving surface.</p> <p>11. All patches will be permanently paved within 2 weeks of first opening that trench.</p>	<p>APPROVED BY REVISER DATE CITY OF CENTRALIA</p> <p>CITY ENGINEER 08-2007 STREET CONSTRUCTION GENERAL NOTES</p> <p>2002 Standard Drawings TOP 1</p>



4	APPROVED FOR CONSTRUCTION
	CITY ENGINEER _____ DATE _____
	APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE

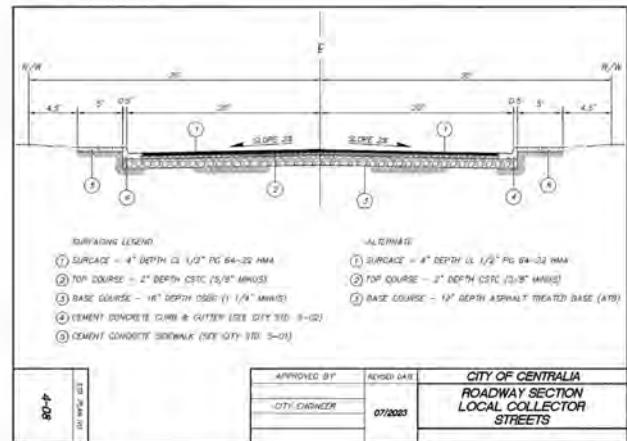
ADDRESSED CITY COMMENTS	12-08-2025
ISSUED FOR PERMIT	10-24-2025

DESIGNED AS
DRAWN AS
CHECKED KH
DATE 06/10/25
SCALE AS NOTED



sitts&hill
STRUCTURAL | ARCHITECTURAL | SURVEYING
4815 CENTER STREET | TACOMA, WA 98409
PHONE: (253) 474-9449 | FAX: (253) 474-0753
<http://www.sittsandhill.com>

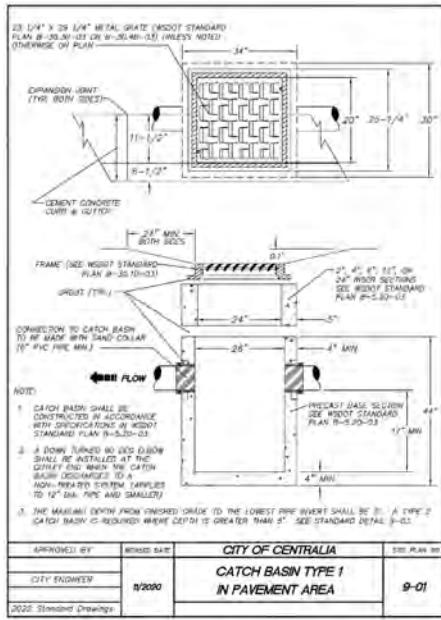
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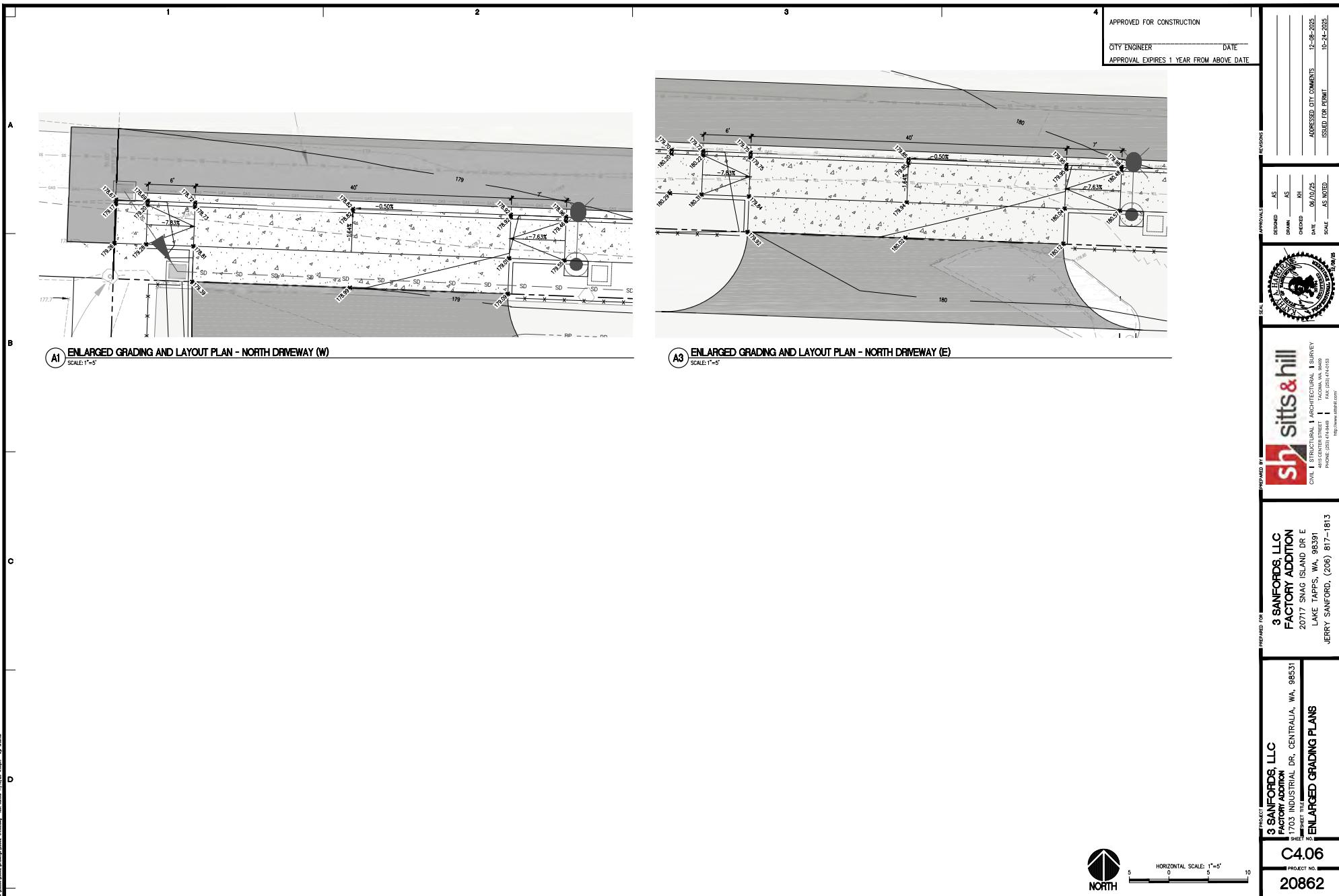
3 SANFORDS, LLC
FACTORY ADDITION
1703 INDUSTRIAL DR., CEN
SHEET #1 OF 1
Roadway Surfacing Notes and Details

C4.03
PROJECT NO.
20862

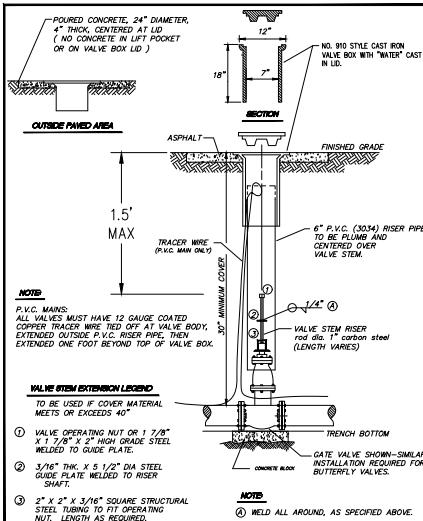
		STORM DRAINAGE INSTALLATION GENERAL NOTES	
		<p>1. All stormwater/soil isolators shall be in accordance with City of Centralia Standards for Stormwater Control Measures (SWCM) Standard Specification for Stormwater Management Construction.</p> <p>2. Temporary erosion/control measures shall be required for the duration of the project.</p> <p>3. The contractor must comply with all permits and other requirements of the City of Centralia or other governing authority or agency.</p> <p>4. A pre-construction meeting shall be held with the City of Centralia prior to the start of construction.</p> <p>5. All storm sewer lines, appurtenances and retention/detention steel shall be stated per price and delivered by implementation of surviving firm cost bid per performance specification for the year 2022. Delivery shall be FOB Centralia, Washington to the City prior to the start of construction and shall be monitored throughout construction.</p> <p>6. 100mm pipe size shall meet the following requirements (note only items which apply):</p> <ul style="list-style-type: none"> A. From concrete pipe conforming to ASTM F 985, Grade 2 B. PVC pipe conforming to ASTM D 3034, Type 55, ASTM F 984 or ASTM F 627, Type 1 with joints and gaskets conforming to ASTM D 2122 and ASTM F 477 C. HDPE pipe conforming to ASME C 151, thickness class as shown on price <p>7. Special structures, oil/water separators and joint sealants, shall be included per piping line manufacturers recommendations.</p> <p>8. Provide traffic control plan(s) as required in accordance with MUTCD.</p> <p>9. Join the telephone/Electronic Call Center at 1-800-424-8555 or minimum of 48 hours prior to start of construction.</p> <p>10. Black Intermediate risers ("Bell" configurations), concrete joints will be explosive. By contract, the contractor and design team verified 48 hours prior to starting construction.</p> <p>11. All Storm lines will be high-velocity cleaned and pressure tested in accordance with Division 1 of the WDOO Standard Specifications prior to laying or backfilling. The contractor shall provide a written report of the results. Any significant number of lines is not an automatic inspection criteria.</p> <p>12. Taping of the Storm lines will consist of Television inspection of the mainline for any potential damage. If any damage is found, the contractor shall repair the damage and re-tape the line to flush it clean. Acceptance of the repair shall be determined by the City Engineer or his/her representative. A write up of all nonconforming tape lines, taping and backfill areas after all underground utilities are restored and re-inspection of the roadway subgrade as completed.</p>	
B			
C			
D			
		CITY OF CENTRALIA STORM DRAINAGE INSTALLATION GENERAL NOTES	
		08/2022	
APPROVED BY	RECEIVED DATE	1 of 1	
CITY ENGINEER	08/2022	2022 Standard Drawings	



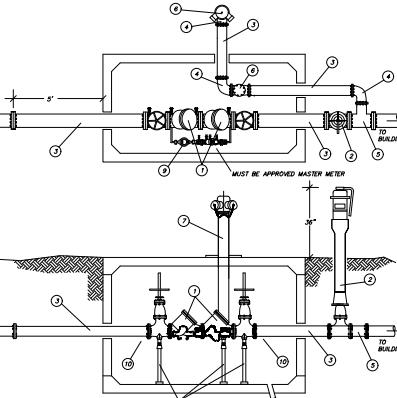
3	4																								
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APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">REVISIONS</td> <td style="width: 80%;"></td> <td style="width: 10%;">APPROVALS</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">DESIGNED AS DAWAN AS CHECKED KH DATER 06/07/25 ADRESSED CITY COMMENTS 12-08-2025 SCALE AS NOTED</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">SEAL</td> </tr> <tr> <td></td> <td style="text-align: center;"></td> <td></td> </tr> <tr> <td></td> <td colspan="2" style="text-align: right; padding-right: 10px;"> sitts & hill  CO. I STRUCTURAL I ARCHITECTURAL I SURVEY 101 CENTER STREET TACOMA, WA 98403 PHONE: (253) 474-5440 FAX: (253) 474-2153 http://www.sithill.com </td> </tr> <tr> <td colspan="3" style="text-align: right; padding-top: 10px;"> <small>PREPARED BY</small> </td> </tr> <tr> <td colspan="3"> 3 SANFORDS, LLC FACTORY ADDITION 20717 SNAG ISLAND DR E LAKE TAPPS, WA 98391 JERRY SANFORD, (206) 817-1813 </td> </tr> <tr> <td colspan="3"> <small>PROJECT NO.</small> 3 SANFORDS, LLC FACTORY ADDITION 170 3 INDUSTRIAL DR, CENTRALIA, WA 98531 <small>SHEET NO.</small> C4.04 <small>PROJECT NO.</small> 20862 </td> </tr> </table>		REVISIONS		APPROVALS			DESIGNED AS DAWAN AS CHECKED KH DATER 06/07/25 ADRESSED CITY COMMENTS 12-08-2025 SCALE AS NOTED			SEAL					sitts & hill  CO. I STRUCTURAL I ARCHITECTURAL I SURVEY 101 CENTER STREET TACOMA, WA 98403 PHONE: (253) 474-5440 FAX: (253) 474-2153 http://www.sithill.com		<small>PREPARED BY</small>			3 SANFORDS, LLC FACTORY ADDITION 20717 SNAG ISLAND DR E LAKE TAPPS, WA 98391 JERRY SANFORD, (206) 817-1813			<small>PROJECT NO.</small> 3 SANFORDS, LLC FACTORY ADDITION 170 3 INDUSTRIAL DR, CENTRALIA, WA 98531 <small>SHEET NO.</small> C4.04 <small>PROJECT NO.</small> 20862		
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3 SANFORDS, LLC FACTORY ADDITION 20717 SNAG ISLAND DR E LAKE TAPPS, WA 98391 JERRY SANFORD, (206) 817-1813																									
<small>PROJECT NO.</small> 3 SANFORDS, LLC FACTORY ADDITION 170 3 INDUSTRIAL DR, CENTRALIA, WA 98531 <small>SHEET NO.</small> C4.04 <small>PROJECT NO.</small> 20862																									



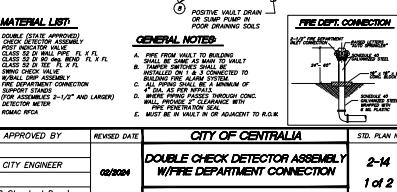
WATER MAIN INSTALLATION GENERAL NOTES												
APPROVED BY	REVISED DATE	CITY OF CENTRALIA										
CITY ENGINEER	09/2007	WATER MAIN INSTALLATION GENERAL NOTES										
2022 Standard Drawings												
1 OF 2												
<p>1. All equipment and material shall be in accordance with the City of Centralia standards and the most current copy of the State of Washington Specifications for Roads, Bridge and Municipal Construction, Washington Department of Health regulations and American Water Works Association standards.</p> <p>2. All pipe shall be 12" and larger. Pipe shall be smooth walled and shall be able to withstand working pressure of 350 PSI conforming to AWWA C101. Water lines under 12" diameter may be PVC AWWA C104 with push on joints conforming to AWWA C117.</p> <p>3. Repair joints shall be made with a flexible coupling or equivalent. Existing joints shall be replaced. All broken fittings shall be replaced by Anti-Siege product for protection. Existing iron fitting connection(s) shall be completed by the use of metal sleeves. When connecting to an existing iron water meter, all connections will be made with a flared end. If sleeves, which are required to be used, are not available, then a flared end connecting to a AC main where a hygiene coupler (or equal) will be used. All fittings will be AWWA C204 or better standard.</p> <p>4. Gate valves shall be resilient seated, NRS (Non-Rising Seats) with O-ring seals. Valve ends shall be mechanical joint or ANS flanges. Valve shafts shall conform to AWWA C1065 std. Valves shall be Mueller, M & T or equivalent.</p> <p>5. All NIBCO Gate Valves must have brass handles.</p> <p>6. A valve stem seal shall be installed on valves where the depth from finished grade to the top of the valve exceeds 1.5'.</p> <p>7. Fire hydrants shall be 2-1/2" M & F, Mueller Style 120, Mueller Centurion, 5 1/4" with standard port thread or Mueller Style 120, Mueller Centurion, 5 1/4" with standard port thread. The hydrant shall be 32 inches above ground level. The distance between hydrants must not exceed 300 feet. All hydrants shall be painted red. Each hydrant shall be provided with a 3/4" male threaded outlet for hose connection and a 1/2" female threaded outlet for gauge connection.</p> <p>8. Brass wedges shall be installed in all ductile iron pipe sections, two (2) per section of pipe. PVC, C.I., ABS, CPVC, HDPE, 200 psi all pipe shall be installed with a toning (bronze) wire. Toning wire shall be attached to the outer jacket of the pipe. The tone wire shall be continuous and shall not be cut or damaged during movement during backfilling. The wire shall be laid loosely enough to prevent stretching and damage. The wire shall be attached to the outer jacket of the pipe at 12" intervals.</p> <p>9. The contractor shall maintain a min. cover of 30 inches and a max. cover of 36 inches over the pipe at all times.</p> <p>10. All water mains shall be flushed for gross contamination by a licensed design engineer or a licensed land surveyor. All water mains shall be flushed using the T-1000 method.</p> <p>11. All new water mains shall be flushed and chlorinated for a minimum of 24 hours prior to flushing. Contractor shall coordinate with the City to have lines flushed and flushed.</p> <p>12. Backfilling of portable water lines shall be performed by the City prior to hydrostatic pressure testing. Construction shall be performed by the City or by a licensed contractor from the Lewis County North Side Chehalis, WA 98532.</p> <p>13. All pipe and fittings shall be hydrostatically tested at 225 PSF (min.) for 15 minutes and witnessed by the City Engineer. The testing before the manufacturer shall be coordinated with Riverside Fire authority.</p> <p>14. Service lines of 3/4" and 1" shall be type "K" copper or copper tubing size (C.T.S.) Blue HDPE Polyethylene, 200 psi pipe. Galvanized fittings shall not be used in construction of service lines.</p> <p>15. All water main joints shall be made with a flared end. If sleeves, which are required to be used, are not available, then a flared end connecting to a AC main where a hygiene coupler (or equal) will be used. All fittings will be AWWA C204 or better standard.</p> <p>16. For any water main tap to existing City mains where the contractor encounters a coupling or existing connection, the contractor shall contact the City Engineer. The contractor shall attach a support sleeve to edge of tapping sleeve and the tapping process shall be witnessed by the City with 2 days prior notice.</p>												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">APPROVED BY</th> <th style="width: 25%;">REVISED DATE</th> <th style="width: 50%;">CITY OF CENTRALIA</th> </tr> </thead> <tbody> <tr> <td>CITY ENGINEER</td> <td>09/2007</td> <td>WATER MAIN INSTALLATION GENERAL NOTES</td> </tr> <tr> <td>2022 Standard Drawings</td> <td></td> <td></td> </tr> </tbody> </table>				APPROVED BY	REVISED DATE	CITY OF CENTRALIA	CITY ENGINEER	09/2007	WATER MAIN INSTALLATION GENERAL NOTES	2022 Standard Drawings		
APPROVED BY	REVISED DATE	CITY OF CENTRALIA										
CITY ENGINEER	09/2007	WATER MAIN INSTALLATION GENERAL NOTES										
2022 Standard Drawings												
<p>NOTES:</p> <p>1. 12" PVC PLASTIC OR CONSTRUCTION PAPER DRAWINGS ARE TO BE USED AS FOUND PIPE AND FITTINGS BEFORE TAPPING BLOCKS ARE POURED.</p> <p>2. SUPPORT VALVE AND SLEEVE CONSIDERABLY THROUGH INSTALLATION.</p>												
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CITY ENGINEER	09/2007	LIVE TAP & CUT-IN-TEE STANDARD										
2022 Standard Drawings		STD. PLAN NO. 2-11										



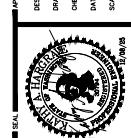
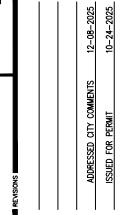
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	08/2020	STANDARD VALVE BOX	2-09
2022 Standard Drawings			



INSTALLATION CLEARANCE REQUIREMENTS	
MAXIMUM HEIGHT ABOVE FLOOR OR GRADE	5 FEET
MINIMUM SIDE CLEARANCE	12 INCHES ON ONE SIDE & 24 INCHES ON THE OTHER
MINIMUM CLEARANCE BELOW ASSEMBLY	12 INCHES*
MINIMUM END CLEARANCE	3 INCHES
MINIMUM CLEARANCE ABOVE FULLEST OPENING OF SOV	3 INCHES



4	APPROVED FOR CONSTRUCTION	
CITY ENGINEER _____		DATE _____
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE		
INSTALLATION CLEARANCE REQUIREMENTS		
MAXIMUM HEIGHT ABOVE FLOOR OR GRADE	5 FEET	
MINIMUM SIDE CLEARANCE	12 INCHES ON ONE SIDE & 24 INCHES ON THE OTHER	
MINIMUM CLEARANCE BELOW ASSEMBLY	12 INCHES*	
MINIMUM END CLEARANCE	3 INCHES	
MINIMUM CLEARANCE ABOVE FULLEST OPENING OF SOV	3 INCHES	
<small>*CLEAR SEE "PATTERN DRAWING SHOWN ON DIFFERENT SIDE BELOW THE 12 INCH VALUE TO ALLOW THE POSITION OF SOV IN VALLEY.</small>		
APPROVED BY CITY ENGINEER 2022 Standard Drawings	REVISED DATE 08/2017	CITY OF CENTRALIA DOUBLE CHECK DETECTOR ASSEMBLY W/FIRE DEPARTMENT CONNECTION STD. PLAN NO. 2-14 2 of 2



2

METER BOX - TYPE: Connect Power Bell as install on the aerial for specific meter size
DUCTILE IRON COVER w/ PLP REAR LINE: as shown on details.
 All requirements placed herein meter box shall be centered to operate valves and read the meter.

PIVOT

PVC CASING

PRIVATE SERVICE LINE

LONG SIDE SERVICES ARE REQUIRED TO BE CASED
 SEE DETAILS IN WATER METER INSTALLATION GENERAL NOTES SECTION

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	ITE. PLAN NO.
CITY ENGINEER	04/09/09	TYPICAL METER PLACEMENT	2-01
2022 Standard Drawing			

3

INSTALLATION CLEARANCE REQUIREMENTS:	
ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE	CLEARANCE TO CEILINGS WALLS, ETC.
4 FEET	10 INCHES
ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE	ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE
4 FEET	10 INCHES
ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE	ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE
4 FEET	10 INCHES
ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE	ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE
4 FEET	10 INCHES

GENERAL NOTES:

- * PROVIDE SPACY CLEARED AREA FOR INSPECTION, CLEANING, AND MAINTENANCE.
- ARMED HEIGHT FROM FLOOR TO VALVE CENTERLINE IS 4' 0".
- 2' 0" OF VERT. CLEARANCE IS REQUIRED ON TOP OF THE VALVE.
- VALVE MUST BE SECURED FIRMLY UP OR ON THE SIDE.
- ALL PARTS OF VALVE EXCEPT

CONSULT THE WATER PURIFICATION CO. FOR APPROVAL OF SHUT-OFF DEVICE

ARMED HEIGHT	ARMED DATE	CITY OF CENTRALIA	FILE PLAN NO.
CDT ENGINEER	06-2007	DOUBLE CHECK VALVE ASSEMBLY - armid (In Below-Ground Box Installation)	2-15

4		APPROVED FOR CONSTRUCTION	
CITY ENGINEER _____		DATE _____	
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE			
REVISIONS _____			
APPROVALS		ISSUED AS DRAWN AS	
RECEIVED KH DATE 06/10/25		ADDRESSED CITY COMMENTS ISSUED FOR PERMIT	
 sitts & hill ARCHITECTURAL SURVEY 1000 Peachtree Street, Suite 1000 Atlanta, GA 30309 Tel: 404-574-1400 Fax: 404-574-1403 http://www.sithill.com			

 TOP VIEW	 TOP VIEW	 TOP VIEW	 WYE
 SIDE VIEW	 SIDE VIEW	 SIDE VIEW	 HORIZ. BEND
 TEE WITH PLUG	 CROSS WITH PLUG	 CROSS WITH PLUGS	 PLUG OR CAP
 VERT. BEND			
 45° - 90°			
NOTES: <ol style="list-style-type: none"> 1. CONCRETE THRUST BLOCKS TO BE PLACED ON ALL SIDE WALLS OF THE DITCH. 2. PLASTIC BARRELS (12 MIL.) SHALL BE PLACED BETWEEN ALL THRUST BLOCKS & FITTINGS. 3. ANCHOR REBAR SHALL BE #8 OR 12" Dia. AND SPACED 16'-0" MAX. WITH A MIN. DIAMETER OF 16"-24" DEEMED NECESSARY. 4. ALL FITTINGS TO BE MEGA MEGA LUG RETAINER GLANDS 5. PLUGS TO BE MINIMUM OF 5" FROM TEES, WYE OR CROSS ON VALVE. 6. ALL PLUGS & BOLTS TO FITTINGS SHALL HAVE ANTI-SEIZE COMPOUND APPLIED TO THE BOLTS. 7. NO CONCRETE WILL COME IN CONTACT WITH ANY MECHANICAL, CONCRETE, OR METAL. 			
APPROVED BY	REVISED DATE	CITY OF CENTRALIA	
CITY ENGINEER	08/2007	STANDARD BLOCKING DETAIL	
2022 Standard Drawings			
		2-10	

<u>THRUST LOADS</u>						
BURST AT FITTINGS IN POUNDS AT 300 POUNDS PER SQUARE INCH OF WATER PRESSURE						
DIA/POLY. DIAMETER	30° BEND	45° BEND	90° BEND	11-1/2° BEND	BEAD	READ AND OR TEE
4"	3,600	2,000	1,000	500	2,600	
6"	8,000	4,000	2,300	1,200	5,700	
8"	14,400	7,700	4,000	2,000	10,200	
10"	22,300	12,100	6,200	3,100	15,800	
12"	32,000	17,400	8,900	4,500	22,700	
14"	43,600	23,600	12,100	6,100	30,800	
16"	57,000	30,800	15,700	7,900	40,300	

NOTES:

1. BLOCKING SHALL BE CEMENT CONCRETE CLASS "B" Poured IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE SURROUNDED BY CONCRETE THRUST BLOCK WITH PLASTIC OR SIMILAR MATERIAL.
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN EXAMPLE: 12" DIA. X 10 DEG. BEND IN SAND AND GRAVEL SOILS 100 PSF = 10.7 S.F. OF AREA
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AND NOT LESS THAN ONE AND ONE-HALF TIMES OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.
5. BLOCKING FOR PIPES LESS THAN 4" DIA. WILL USE 4" PIPE VALUES.

SAFE SOIL BEARING LOADS

SOIL TYPES WHICH ARE NOT LISTED
OR OVER ONE PIPE EXCEEDS 2 FEET

SOIL	POUNDS PER SQUARE FOOT
MUCK,PEAT	0,000
SOFT CLAY	2,000
SAND & GRAVEL	3,000
SAND & GRAVEL COMPACTED WITH CLAY	4,000
HARD SHALE	10,000

APPROVED BY	REVISED DATE	CITY OF CENTRALIA	STD. PLAN NO.
CITY ENGINEER	08/2017	THRUST LOADS	
2022 Standard Drawings			2-18

SANITARY SEWER MAIN INSTALLATION GENERAL NOTES		
<p>1. A pre-construction conference must be held with the City prior to start of construction.</p> <p>2. Underground utilities shown are for the convenience of the contractor only. It is the contractors responsibility to use the "one-call" telephone (1-800-424-5055) 48 hours before construction is started.</p> <p>3. All methods and construction shall be in accordance with the current edition of the various applicable specifications for roads, bridges and municipal construction and City of Centralia standards.</p> <p>4. Erosion control measures shall be taken during construction to prevent siltation of existing and proposed facilities.</p> <p>5. Plans for new sewer lines conform to Section 7-17.2 of the current standard specifications for bridge and municipal construction published jointly by WSDOT and the State Chapter of APWA and be one of the following:</p> <ol style="list-style-type: none"> Ductile iron pipe shall conform to Section 9-05.13 and ANSI A21.51 or APWA Standard A21.51, Grade 100, Class 100, 16"-24" ASTM D 3034, SDR 35 / 16"-24" ASTM E 679 Polyvinyl chloride (PVC) pipe shall conform with the provisions of WSDOT Section 9-05.12, 6"-15" ASTM D 3034, SDR 35 / 16"-24" ASTM E 679 <p>6. End of laterals shall be marked with a 2 1/4" wooden stake four feet long (minimum) buried at a 45 degree angle (3 feet minimum).</p> <p>7. All lateral stakes shall be 225 minutes apart where noted, 6" pipe to property line laterals must be provided to all appropriate properties.</p> <p>8. All laterals shall be connected to mains with a manufactured wye or wye saddled tap unless otherwise approved by the City Engineer. Lines 12"-or larger and high flow lines may be required to be connected to mains.</p> <p>9. Layout and construction staking shall be done by a design engineer or a licensed land surveyor. All vertical control shall be established using the 1988 USGS Datum.</p> <p>10. All new manholes shall be six inches (6") in diameter. Type 1 manholes unless otherwise specified by the City.</p> <p>11. Low pressure air test is required on all new sanitary sewer lines (including laterals). Testing shall per be APWA specifications and witnessed by the City.</p> <p>12. A vacuum test is required on all new manholes and attached mains.</p> <p>13. Schedule all tests with the City and allow two (2) working days advance notice.</p> <p>14. A copy of the T.V. inspection video of the sewer main shall be provided to the City along with the inspection report prior to final acceptance.</p> <p>15. As-built drawings shall be submitted to the City prior to final acceptance.</p> <p>16. All necessary easements must be recorded before final acceptance.</p> <p>17. The contractor is to notify the City two (2) working days prior to the start of construction. All easements must be submitted and approved prior to use.</p> <p>18. A manhole and cleanup assemblage detail shall be submitted prior to construction for the City's approval.</p> <p>19. On all main extensions, a lateral shall be installed from the main to the right-of-way for all existing residences and for all possible future building along the main extension. All lateral extensions shall be approved by the City of Centralia and adjacent property owners prior to construction.</p>	<p>APPROVED BY</p> <p>CITY ENGINEER</p> <p>06-2023</p> <p>REVISED DATE</p> <p>CITY OF CENTRALIA</p> <p>SEWER MAIN INSTALLATION GENERAL NOTES</p>	
2022 Standard Drawings		1 OF 2

SIDE SEWER REGULATIONS (Ord. 2021)		
GENERAL NOTES		
1. Any work including installation, replacement and repair, on the sanitary side sewer requires an application for a permit which must be obtained - in advance of the work - from the City Utilities building at 1100 N. Taylor Street.		
2. Inspection permit fees:		
<ul style="list-style-type: none"> • Single family dwelling \$ 50.00 • Multi-family dwelling \$ 100.00 • Commercial/Industrial \$ 100.00 • Alteration, repair and abandonment of existing lateral \$ 100.00 • Alteration, repair and abandonment of existing main \$ 100.00 • After hours or holiday inspections \$ 100.00 • Pumping services \$ 100.00 • Grinder pump commercial permit \$ 100.00 • Grinder pumps commercial or industrial connection \$ 150.00 		
3. For inspection of new or existing works of art (360) 330-7712. Inspections will be made 8:00 A.M. - Noon or 1:00 P.M. - 5:00 P.M.		
4. "Side Sewer" means that part of the horizontal piping of a drainage system which extends from the end of the building drain and which receives the discharge of the building drain and conveys it to a public sewer, private sewer. Individual sewage disposal system or other point of disposal.		
5. All costs and expenses incident to the installation and connection, operation and maintenance and removal of any side sewer shall be borne by the owner.		
6. Pipe acceptable for side sewer: polyvinyl chloride (PVC) ASTM D-3534, SPW 35, cast iron soil pipe, federal spec. WPM-401; ductile iron ANSI A 25.1, thickness class 31. Not acceptable for side sewer: black ABS pipe, glued joints, glued fittings.		
7. Side sewer for single family dwelling shall be no less than 4" diameter from dwelling to property line and no less than 6" diameter to public sewer. All multiple family, commercial and industrial side sewer lines shall not be less than 6" diameter between man and building. Each building must have a separate side sewer.		
8. No 90 degree bends allowed.		
9. A cleatroom is required within 36" of all buildings and at intervals of not more than 100 feet. Cleatrooms shall be extended to within 18" of surface and capped except where surface is paved. In paved areas, a 18" wide access opening shall be provided with an acceptable threaded metal plug. Letards shall be straight lines between cleatrooms.		
10. Backwater valves—The Uniform Plumbing Code requires backwater valves on building sewers serving two or more fixtures. Residential backwater valves, if they are installed, must be located within the building footprint upstream of the cleatroom. The city is not responsible for their installation, maintenance, or operation.		
11. Lines shall be laid on uniform slope not less than 1/4" per foot for 4" pipe and 1/8" per foot for 6" pipe. Horizontal and vertical alignment shall be true with suitable materials. Alignment of both vertical and horizontal shall be straight and true.		
12. Minimum cover for side sewer shall be 18" on private property.		
13. Side sewer shall be air or water tested for their entire length. Inspection of the test must be done by a Public Works employee before backfilling(wet). (See paragraph 16.10.240, ordinance 2021 for details.)		
14. Contractor shall provide 24 hours notice when requesting inspection.		
Any questions regarding the above regulations may be directed to the Public Works Office (360) 330-7712		
APPROVED BY	REVISED DATE	CITY OF CENTRALIA
CITY ENGINEER	06-2023	SEWER MAIN INSTALLATION GENERAL NOTES
2022 Standard Drawings		2 OF 2

3

APPROVED BY

CITY ENGINEER	REVISED DATE
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06-2023

CITY OF CENTRALIA

SANITARY SEWER LATERAL SERVICE CONNECTION

2022 Standard Drawings

10-8
RJW/MSB
06-2023

4		APPROVED FOR CONSTRUCTION	
CITY ENGINEER		DATE	
APPROVAL EXPIRES 1 YEAR FROM ABOVE DATE			
REVISIONS			
APPROVALS			
DESIGNED	AS	REVIEWED	
BUILT	AS	CHECKED	KH
DATE	06/10/2025	DATE	
SCALE	AS NOTED	SCALE	
ADRESSED CITY COMMENTS			
ISSUED FOR PERMIT			
 TACOMA, WA 98469 FAX: (253) 574-0753 http://www.tacoma.org			
 sitts & hill ARCHITECTURAL SURVEY			

