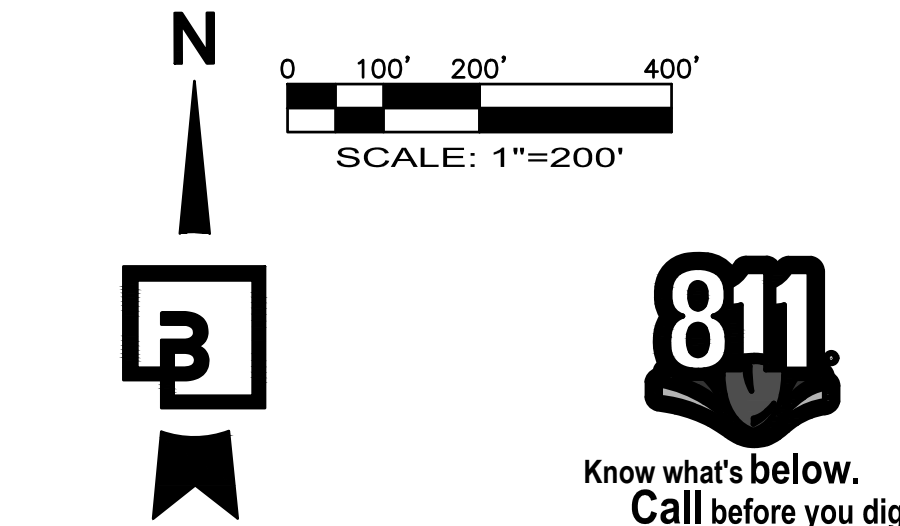
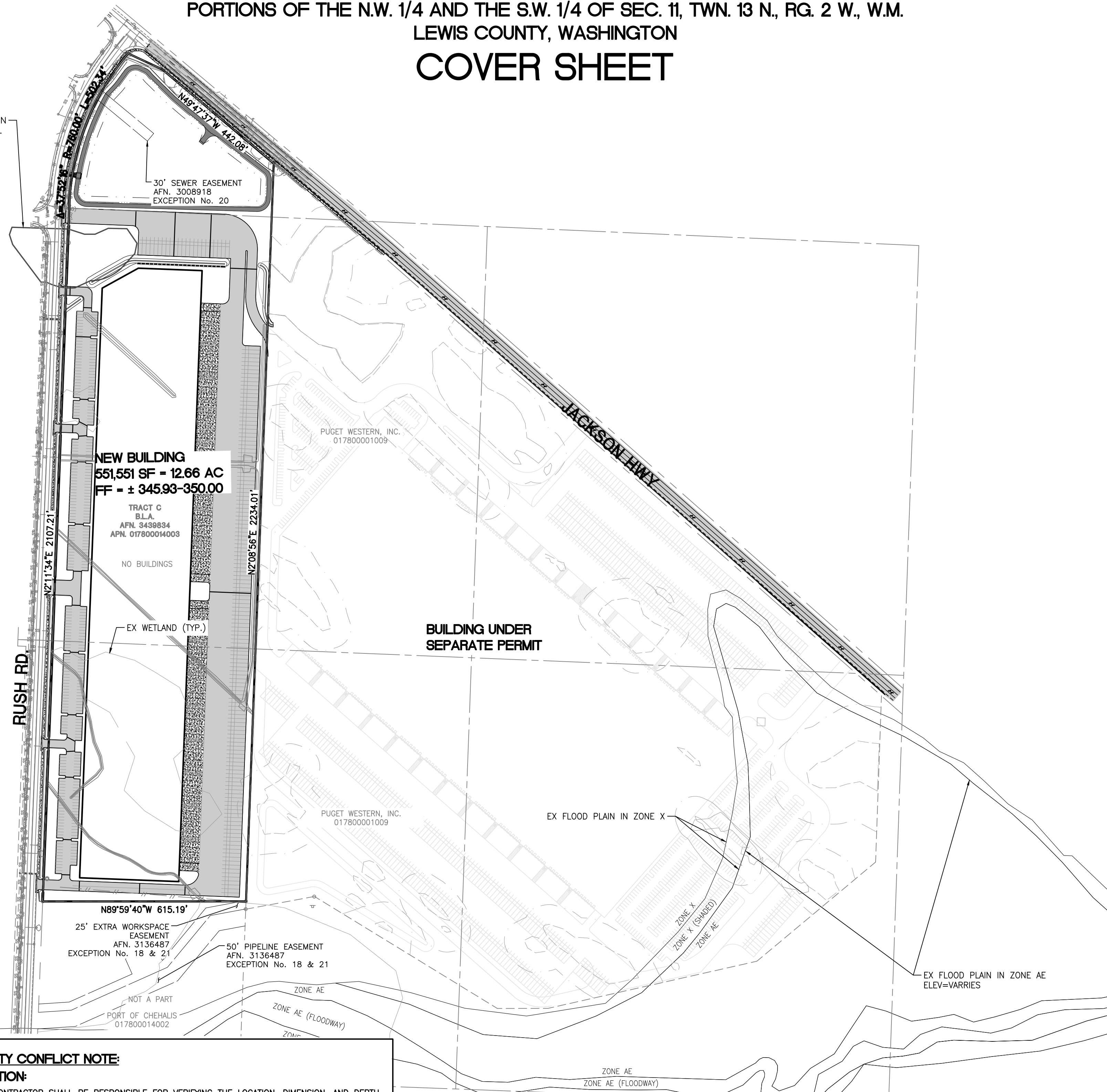
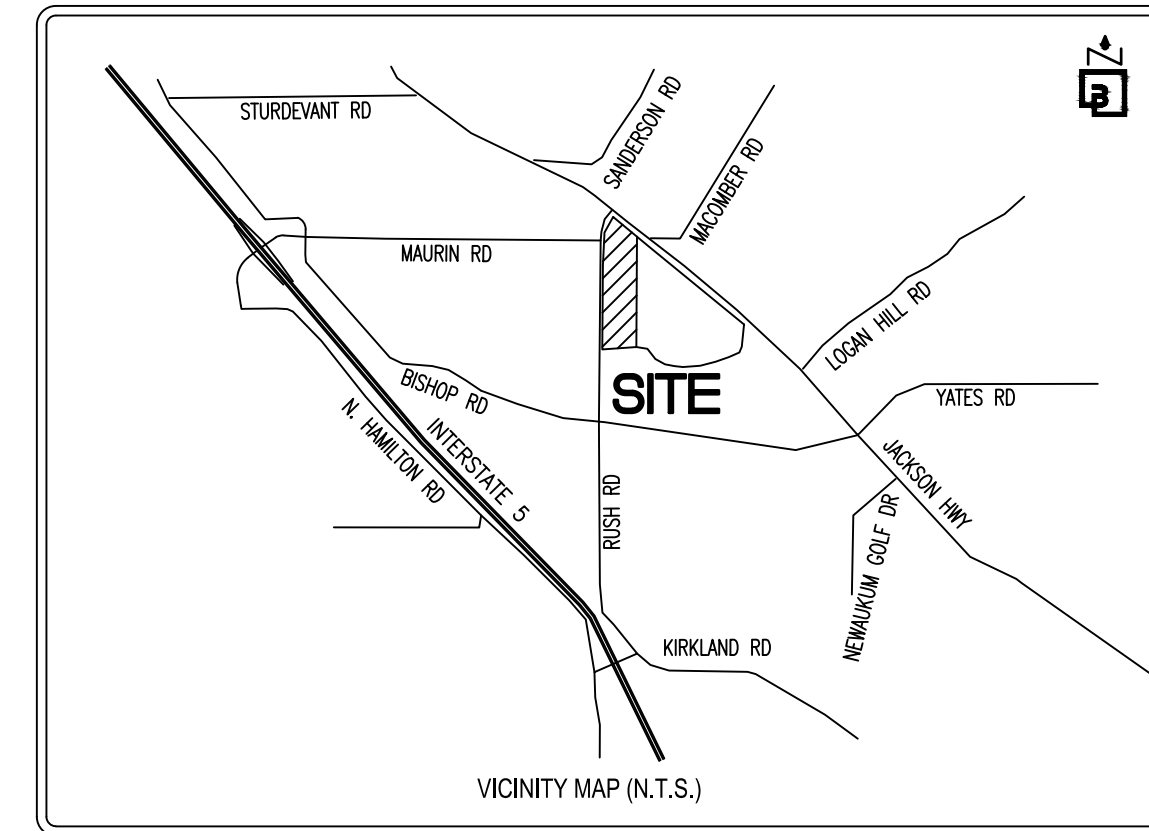


CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

COVER SHEET



GENERAL SITE NOTES:

- THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
- INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
- PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
- TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
- CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
- CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC., PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

APPROX. LOCATION OF EX. CULTURAL RESOURCES

30' SEWER EASEMENT
AFN. 3008918
EXCEPTION No. 20

NEW BUILDING
551,551 SF - 12.66 AC
FF = ± 345,93-350.00

TRACT C
B.L.A.
AFN. 3439884
APN. 017800014003

NO BUILDINGS

EX WETLAND (TYP.)

BUILDING UNDER SEPARATE PERMIT

25' EXTRA WORKSPACE EASEMENT
AFN. 3136487
EXCEPTION No. 18 & 21

50' PIPELINE EASEMENT
AFN. 3136487
EXCEPTION No. 18 & 21

PORT OF CHEHALIS
017800014002

LEGEND:

SURVEY MONUMENT	PROPOSED TYPE II CATCH BASIN
EX. POWER VAULT	PROPOSED TYPE I CATCH BASIN
EX. LUMINAIRE (LUM.)	PROPOSED STORM DRAIN FLOW ARROW
EX. LOT LIGHT	PROPOSED STORM DRAINAGE LINE
EX. POWER POLE	PROPOSED TRENCH DRAIN
EX. JUNCTION BOX	PROPOSED SANITARY SEWER LINE
EX. CATCH BASIN (CB)	PROPOSED SANITARY SEWER CLEANOUT
EX. CATCH BASIN (CB) TYPE 2	PROPOSED SANITARY SEWER MANHOLE
EX. SANITARY SEWER MANHOLE (SSMH)	PROPOSED WATERMAIN
EX. GAS METER	PROPOSED FIRE HYDRANT
EX. GAS VALVE	PROPOSED WATER VALVE
EX. WATER VALVE (WV)	PROPOSED CONCRETE BLOCKING
EX. FIRE HYDRANT (FH)	PROPOSED 90° BEND
MAIL BOX	PROPOSED SPOT ELEVATIONS
EX. WATER METER	EXISTING SPOT ELEVATIONS
EX. SIGN	PROPOSED CONTOURS
EX. WATER LINE	EXISTING CONTOURS
EX. SANITARY SEWER LINE	PROPOSED BUILDING LINE
EX. STORM DRAINAGE LINE	PROPOSED PAVEMENT
EX. POWER UNDERGROUND	PROPOSED CONCRETE
EX. POWER OVERHEAD	
EX. METAL FENCE	
EX. WOOD FENCE	

UTILITY CONFLICT NOTE:

CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLES THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POTHOLES ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

HORIZONTAL CONTROL NOTE:

CONTRACTOR SHALL HAVE ALL PROPERTY LINES, CURB, SIDEWALK, STRUCTURES, CONCRETE PADS AND ANY OTHER ABOVE GROUND PERMANENT STRUCTURE DEPICTED ON THESE PLANS STAKED FOR CONSTRUCTION BY A LICENSED SURVEYOR. LICENSED SURVEYOR SHALL STAKE ALL ITEMS USING COORDINATE GEOMETRY (RECTIFIED TO SITE CONTROL) CONTAINED IN CAD DRAWING FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RETRIEVE LATEST CAD FILES FROM BARGHAUSEN CONSULTING ENGINEERS INC., REFLECTING ANY ISSUED PLAN REVISIONS. BARGHAUSEN CONSULTING ENGINEERS SHALL IMMEDIATELY BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

MONUMENT DEMOLITION NOTE:

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM ANY JURISDICTIONS HAVING AUTHORITY FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY. UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR, AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

LOT COVERAGE SUMMARY

SURFACE NAME	AREA (SF)	AREA (AC)
ASPHALT	412,926	9.48
CONC	99,691	2.29
BLDG	551,551	12.66
POND	146,496	3.36
LANDSCAPE	273,086	6.27
TOTAL SITE AREA	1,483,749	34.06

ESTIMATED EARTHWORK QUANTITIES:

CUT:	22,008 CY
FILL:	103,925 CY
NET:	81,917 CY (FILL)

CONTRACTOR SHALL REFER TO THE REPORT OF GEOTECHNICAL INVESTIGATION DATED MAY 3RD, 2022 FOR THIS SITE PREPARED BY TERRA ASSOCIATES INC. FOR GRADING RECOMMENDATIONS. EARTHWORK QUANTITIES ARE FOR PERMITTING PURPOSES ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES. CONTRACTOR SHALL PERFORM AN INDEPENDENT ANALYSIS FOR THE PURPOSES OF PREPARING THEIR BID.

GEOTECHNICAL REPORT NOTES:

- THE FOLLOWING GEOTECHNICAL REPORTS FOR THE SITE SHALL BE CONSIDERED PART OF THESE CONSTRUCTION DOCUMENTS:
 GEOTECHNICAL ENGINEERING REPORT
 TERRA PROJECT NO. T-8643-1
 DATE: MAY 03, 2022
 SOILS REPORTS: TERRA PROJECT NO. T-8643-1
 DATE: MAY 03, 2022
 PREPARED BY: TERRA ASSOCIATES, INC.
 12220 113TH AVE NE,
 KIRKLAND, WA 98034
 PHONE (425) 821-7777
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, FOUNDATION, SLAB, AND PAVING CONSTRUCTION.
- ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR DETERMINATION.
- A REPRESENTATIVE OF THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO HIS/HER SATISFACTION.
- THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

CIVIL SHEET INDEX

- C1 OF 9 COVER SHEET
- C2 OF 9 PRELIMINARY GRADING AND DRAINAGE
- C3 OF 9 PRELIMINARY GRADING AND DRAINAGE
- C4 OF 9 PRELIMINARY GRADING AND DRAINAGE
- C5 OF 9 SECTION DETAILS
- C6 OF 9 PRELIMINARY WATER AND SANITARY SEWER PLAN
- C7 OF 9 CONSTRUCTION NOTES AND DETAILS
- C8 OF 9 CONSTRUCTION NOTES AND DETAILS
- C9 OF 9 CONSTRUCTION NOTES AND DETAILS
- 1 OF 1 ALTA-NSPS LAND TITLE SURVEY

SURVEY INFORMATION:

BASIS OF BEARINGS NAD83/91 (WSDOT)
 BASIS OF BEARINGS FOR THIS SURVEY IN NAD 83/91 PER WSDOT. WSDOT CONTROL POINT NO. CHE-05 WAS HELD FOR POSITION AND A LINE BETWEEN SAID POINT NO. CHE-05 AND CHE-03 WAS HELD FOR ROTATION, BEING SOUTH 48°39'23" EAST.

NARRATIVE:
 THIS IS A FIELD TRAVERSE SURVEY. A "TRIMBLE S6 VISION" ROBOTIC TOTAL STATION, AND A TOPCON GR-S WERE USED TO MEASURE THE ANGULAR AND DISTANCE RELATIONSHIPS BETWEEN THE CONTROLLING MONUMENTATION AS SHOWN. CLOSURE RATIOS OF THE TRAVERSE MET OR EXCEEDED THOSE SPECIFIED IN WAC 332-130-090. ALL INSTRUMENTS AND EQUIPMENT HAVE BEEN MAINTAINED IN ADJUSTMENT ACCORDING TO MANUFACTURERS' SPECIFICATIONS.

DATE OF SURVEY:
 THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING IN DECEMBER 2016 AND JANUARY 2017, AND VERIFIED IN MARCH OF 2022. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN DECEMBER OF 2016.

TAX PARCEL NUMBER:
 APN: 017800014003

PARCEL AREA:
 1,483,749± S.F. (34.06± AC.)

ADDRESS:
 0 RUSH ROAD, CHEHALIS WA 98532

ZONING:
 NO ZONING REPORT PROVIDED.

FLOOD INFORMATION:
 FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) INFORMATION: FIRM (FLOOD INSURANCE RATE MAP) MAP NO. 5301021782C PANEL 1782 OF 2500, DATED JULY 17, 2006, FIRM MAP NO. 5301021781C PANEL 1781 OF 2500, DATED JULY 17, 2006, FIRM MAP NO. 5301021368C PANEL 1368 OF 2500, DATED JULY 17, 2006 AND FIRM MAP NO. 5301020242C PANEL 242 OF 2500, DATED JULY 17, 2006. THE SUBJECT PROPERTY IS IN ZONE X (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

DEVELOPER

CRG REAL ESTATE SOLUTIONS
 35 E. WACKER DRIVE
 CHICAGO, ILLINOIS 60601
 PH: (312) 658-0747
 CONTACT: ALP HACIOSMANOGLU
 EMAIL: ALPH@REALCRG.COM

ENGINEER/SURVEYOR

BARGHAUSEN CONSULTING ENGINEERS, INC.
 18215 72ND AVE S
 KENT WA, 98032
 PH: (425) 251-6222
 CONTACT: DAN BALMELLI, P.E.
 EMAIL: DBALMELLI@BARGHAUSEN.COM

LANDSCAPE

BARGHAUSEN CONSULTING ENGINEERS, INC.
 18215 72ND AVE S
 KENT WA, 98032
 PH: (425) 251-6222
 CONTACT: JEFF WARLEY
 EMAIL: JWARLEY@BARGHAUSEN.COM

GEOTECHNICAL

TERRA ASSOCIATES, INC.
 12220 113TH AVE NE,
 KIRKLAND, WA 98034
 PHONE (425) 821-7777
 CONTACT: CAROLYN S. BECKER, P.E.
 EMAIL: CBECKER@TERRA-ASSOCIATES.COM

WETLAND CONSULTANT

SOUNDVIEW CONSULTANTS
 2307 HARBORVIEW DRIVE, SUITE D
 GIG HARBOR, WA 98335
 PH: (253)-514-8952
 CONTACT: RACHEAL VILLA
 EMAIL: RACHEAL@SOUNDVIEWCONSULTANTS.COM

APPROVED FOR CONSTRUCTION

APPROVED BY
 PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

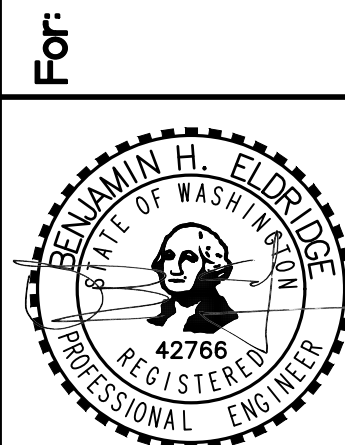
DATE

APPROVAL EXPIRES

Revision No. Date By Ctd. Appr.

COVER SHEET

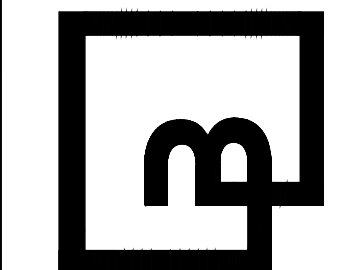
FOR
 CHEHALIS INDUSTRIAL PARK



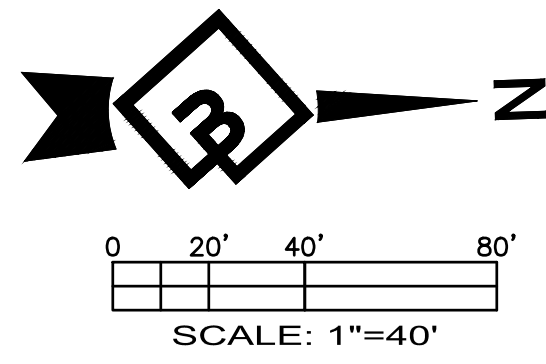
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 Horizontal 1"=200'
 Vertical N/A

Designed: SZG
 Drawn: SZG
 Checked: BHE
 Approved: BHE
 Date: 5/24/23

Barghausen Consulting Engineers, Inc.
 18215 72nd Avenue South
 Kent, WA 98032
 425.251.6222
 barghausen.com



Job Number: 22323
 Sheet: 9
 C1 OF 9



SPOT SHOT LEGEND	
DESCRIPTION	PROPOSED
ME=MATCH EXISTING SPOT ELEVATION	601.20± ME
PROPOSED SPOT ELEVATION	595.00

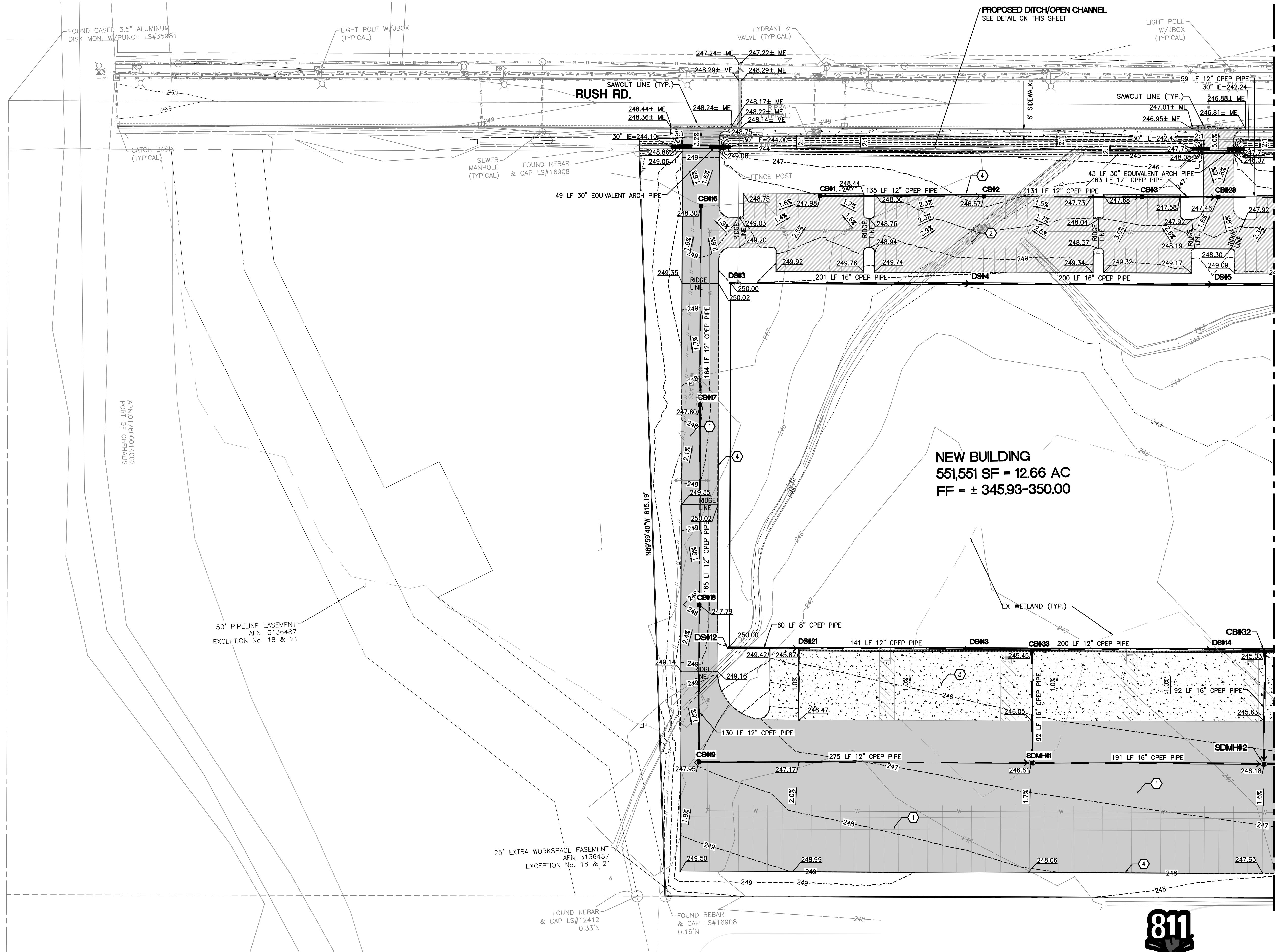
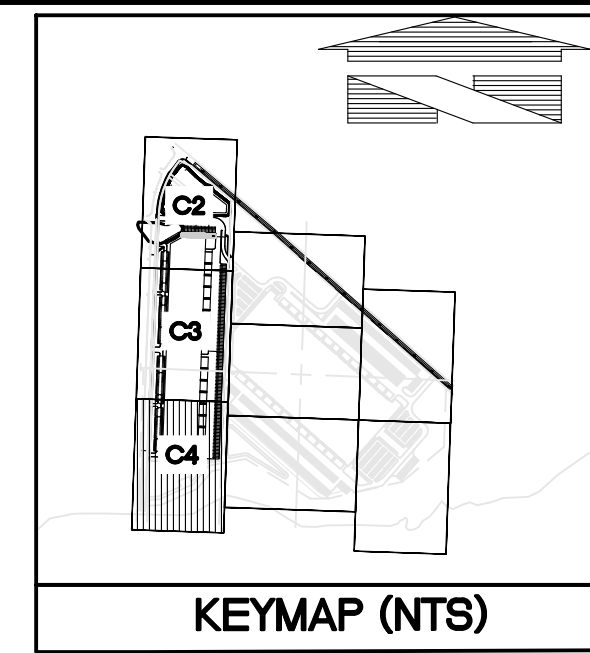
CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

PRELIMINARY GRADING AND DRAINAGE

CALLOUT

1. HEAVY HMA (PER DETAIL ON SHEET C7)
2. LIGHT HMA (PER DETAIL ON SHEET C7)
3. HEAVY PCC (PER DETAIL ON SHEET C7)
4. 6" VERTICAL CURB (PER DETAIL ON SHEET C7)



MATCHLINE - SEE SHEET C3 FOR CONTINUATION

CATCH BASINS	
CB#1, TYPE 1, W/STD GR	RIM=247.98 IE=244.90 (12" N)
CB#2, TYPE 1, W/STD GR	RIM=246.57 IE=243.51 (12" S) IE=243.41 (12" N)
CB#3, TYPE 1, W/STD GR	RIM=247.24 IE=243.12 (12" S) IE=243.02 (12" N)
CB#16, TYPE 1, W/STD GR	RIM=248.30 IE=245.25 (12" E)
CB#17, TYPE 1, W/STD GR	RIM=247.60 IE=244.68 (12" W) IE=244.55 (12" E)
CB#18, TYPE 1, W/STD GR	RIM=247.79 IE=244.10 (12" W) IE=244.06 (12" E)
CB#19, TYPE 1, W/STD GR	RIM=247.95 IE=243.77 (12" W) IE=243.67 (12" N)
CB#28, TYPE 1, W/STD GR	RIM=247.46 IE=242.88 (12" S) IE=242.78 (12" N)
CB#32, TYPE 1, W/STD GR	RIM=245.05 IE=241.66 (16" E)
CB#33, TYPE 1, W/STD GR	RIM=245.47 IE=242.08 (16" E)
DS#3, 8" ROOF DOWNSPOUT	RIM=250.00 IE=246.93 (16" N)
DS#4, 8" ROOF DOWNSPOUT	RIM=249.60 IE=246.47 (16" S) IE=246.16 (16" N)
DS#5, 8" ROOF DOWNSPOUT	RIM=249.16 IE=245.72 (16" S) IE=245.72 (16" N)
DS#12, 8" ROOF DOWNSPOUT	RIM=249.98 IE=247.18 (8" N)
DS#13, 8" ROOF DOWNSPOUT	RIM=245.57 IE=242.52 (12" S) IE=242.17 (12" N)
DS#14, 8" ROOF DOWNSPOUT	RIM=245.13 IE=241.73 (12" S) IE=241.73 (12" N)
DS#21, 8" ROOF DOWNSPOUT	RIM=245.88 IE=243.09 (8" S) IE=242.83 (12" N)
SDM#1, TYPE 2	RIM=246.60 IE=243.07 (12" S) IE=241.95 (16" W) IE=241.85 (16" N)
SDM#2, TYPE 2	RIM=246.18 IE=241.58 (16" S) IE=241.53 (16" W) IE=241.43 (18" N)

Revision	No.	Date	By	Chd.	Appr.
<p>Title: PRELIMINARY GRADING AND DRAINAGE</p> <p>For: CRG REAL ESTATE SOLUTIONS 35 E. WACKER DRIVE CHICAGO, ILLINOIS 60601</p>					
<p>Scale: Horizontal: 1"=40' Vertical: N/A</p>					
<p>Designed / Drawn / Checked / Approved / Date: SGZ / SGZ / BHE / BHE / 5/24/23</p>					
<p>Professional Engineer: BENJAMIN H. FLEURBAEY STATE OF WASHINGTON No. 12766 RECEIVED PROFESSIONAL ENGINEER</p>					
<p>Job Number: 22323</p> <p>Sheet: C2 of 9</p>					
<p>Company: Barghausen Consulting Engineers, Inc. 18215 72nd Avenue South Kent, WA 98032 425.251.6222 barghausen.com</p>					

APPROVED FOR CONSTRUCTION

APPROVED BY: _____
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE: _____

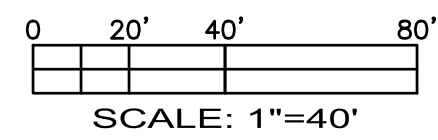
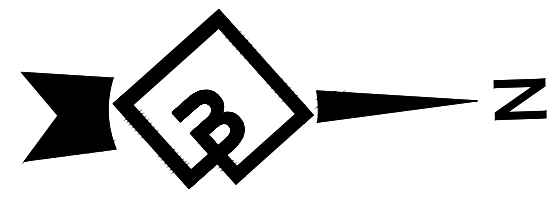
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CHEHALIS INDUSTRIAL PARK

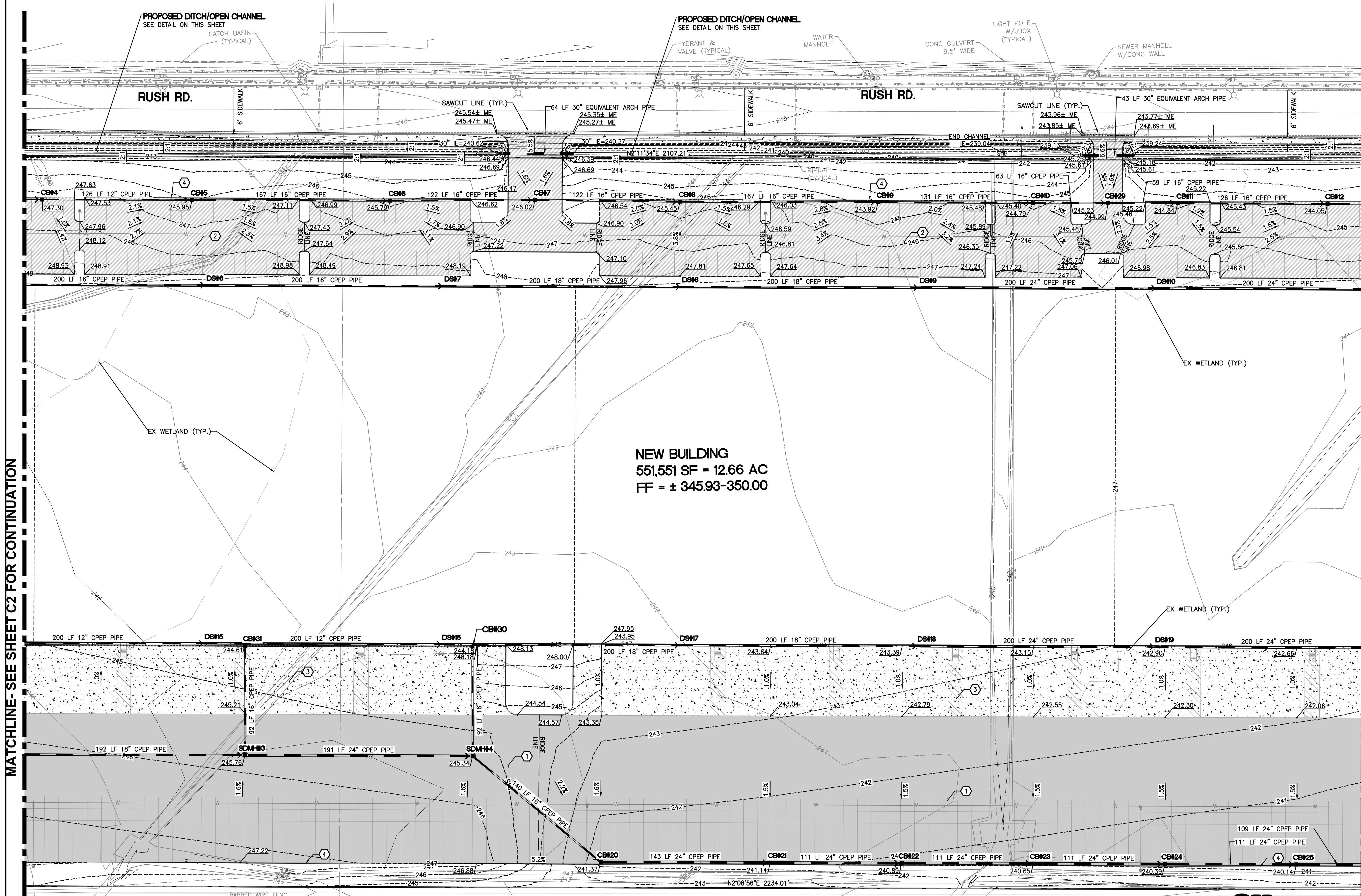
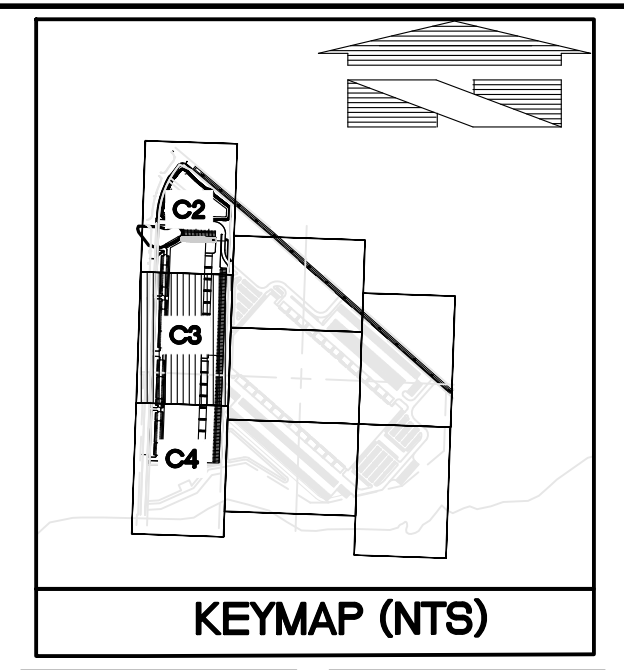
PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

PRELIMINARY GRADING AND DRAINAGE



SPOT SHOT LEGEND	
DESCRIPTION	PROPOSED
ME=MATCH EXISTING SPOT ELEVATION	601.20± ME
PROPOSED SPOT ELEVATION	595.00

- CALLOUT**
- HEAVY HMA (PER DETAIL ON SHEET C7)
 - LIGHT HMA (PER DETAIL ON SHEET C7)
 - HEAVY PCC (PER DETAIL ON SHEET C7)
 - 6" VERTICAL CURB (PER DETAIL ON SHEET C7)



MATCHLINE - SEE SHEET C4 FOR CONTINUATION

CATCH BASINS	CATCH BASINS
CB#4, TYPE 1, W/STD GRT RIM=247.30 IE=242.65 (12" S) IE=242.55 (12" N)	CB#12, TYPE 1, W/STD GRT RIM=244.05 IE=239.59 (16" S) IE=239.49 (16" N)
CB#5, TYPE 1, W/STD GRT RIM=245.95 IE=242.28 (12" S) IE=242.18 (16" N)	CB#20, TYPE 1, W/STD GRT RIM=241.37 IE=237.98 (16" SW) IE=237.30 (24" N)
CB#6, TYPE 1, W/STD GRT RIM=245.79 IE=241.94 (16" S) IE=241.84 (16" N)	CB#21, TYPE 1, W/STD GRT RIM=241.14 IE=237.07 (24" S) IE=236.97 (24" N)
CB#7, TYPE 1, W/STD GRT RIM=246.02 IE=241.67 (16" S) IE=241.57 (16" N)	CB#22, TYPE 1, W/STD GRT RIM=240.90 IE=236.82 (24" S) IE=236.72 (24" N)
CB#8, TYPE 1, W/STD GRT RIM=245.46 IE=241.40 (16" S) IE=241.21 (16" N)	CB#23, TYPE 1, W/STD GRT RIM=240.66 IE=236.58 (24" S) IE=236.48 (24" N)
CB#9, TYPE 1, W/STD GRT RIM=243.93 IE=240.52 (16" S) IE=240.42 (16" N)	CB#24, TYPE 1, W/STD GRT RIM=240.39 IE=236.32 (24" S) IE=236.22 (24" N)
CB#10, TYPE 1, W/STD GRT RIM=244.79 IE=240.24 (16" S) IE=240.14 (16" N)	CB#25, TYPE 1, W/STD GRT RIM=240.15 IE=236.07 (24" S) IE=235.97 (24" N)
CB#11, TYPE 1, W/STD GRT RIM=244.84 IE=239.87 (16" S) IE=239.77 (16" N)	CB#29, TYPE 1, W/STD GRT RIM=245.00 IE=240.05 (16" S) IE=239.95 (16" N)

CATCH BASINS	CATCH BASINS
CB#30, TYPE 1, W/STD GRT RIM=244.21 IE=240.82 (16" E)	DS#16, 8" ROOF DOWNSPOUT RIM=244.25 IE=240.86 (12" S) IE=240.69 (18" N)
CB#31, TYPE 1, W/STD GRT RIM=244.63 IE=241.24 (16" E)	DS#17, 8" ROOF DOWNSPOUT RIM=243.79 IE=240.22 (18" S) IE=240.22 (18" N)
DS#6, 8" ROOF DOWNSPOUT RIM=248.72 IE=245.28 (16" S) IE=245.28 (16" N)	DS#18, 8" ROOF DOWNSPOUT RIM=243.35 IE=239.79 (18" S) IE=239.28 (24" N)
DS#7, 8" ROOF DOWNSPOUT RIM=248.28 IE=244.84 (16" S) IE=244.66 (18" N)	DS#19, 8" ROOF DOWNSPOUT RIM=242.91 IE=238.84 (24" S) IE=238.84 (24" N)
DS#8, 8" ROOF DOWNSPOUT RIM=247.84 IE=244.19 (18" S) IE=244.19 (18" N)	SDMH#3, TYPE 2 RIM=245.76 IE=241.20 (18" S) IE=241.11 (16" W) IE=240.73 (24" N)
DS#9, 8" ROOF DOWNSPOUT RIM=247.40 IE=243.78 (18" S) IE=243.27 (24" N)	SDMH#4, TYPE 2 RIM=245.34 IE=238.81 (24" S) IE=240.69 (16" W) IE=238.71 (16" NE)
DS#10, 8" ROOF DOWNSPOUT RIM=246.96 IE=242.81 (24" S) IE=242.81 (24" N)	DS#15, 8" ROOF DOWNSPOUT RIM=244.69 IE=241.30 (12" S) IE=241.30 (12" S)

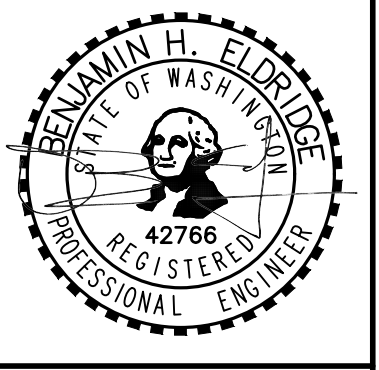
APPROVED FOR CONSTRUCTION

APPROVED BY
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT
DATE
APPROVAL EXPIRES

MATCHLINE - SEE SHEET C2 FOR CONTINUATION

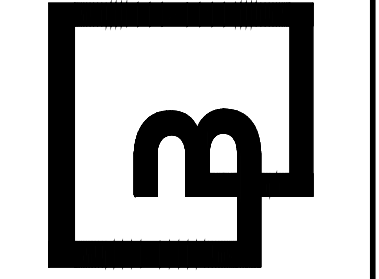
PRELIMINARY GRADING AND DRAINAGE FOR CHEHALIS INDUSTRIAL PARK

For: CRG REAL ESTATE SOLUTIONS
35 E. WACKER DRIVE
CHICAGO, ILLINOIS 60601



Scale: Horizontal 1"=40' Vertical N/A
Designed: SGZ
Drawn: SGZ
Checked: BHE
Approved: BHE
Date: 5/24/23

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number: 22323
Sheet: C3 of 9

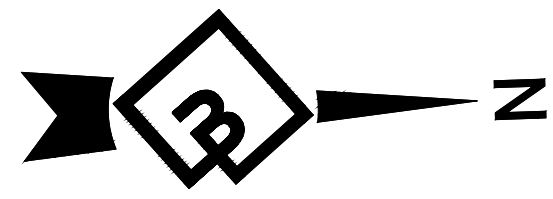


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CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N, RG. 2 W, W.M.
LEWIS COUNTY, WASHINGTON

PRELIMINARY GRADING AND DRAINAGE

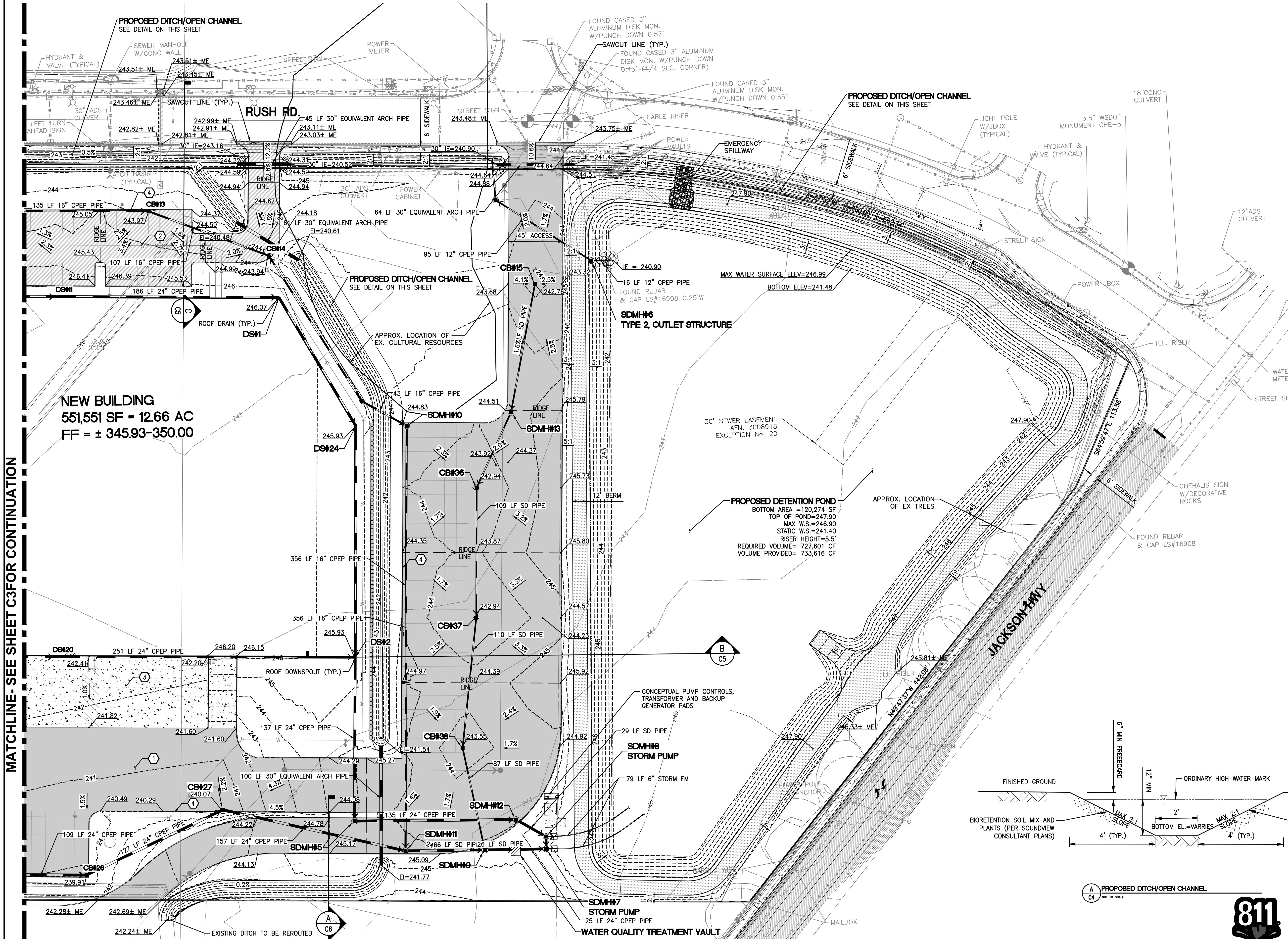
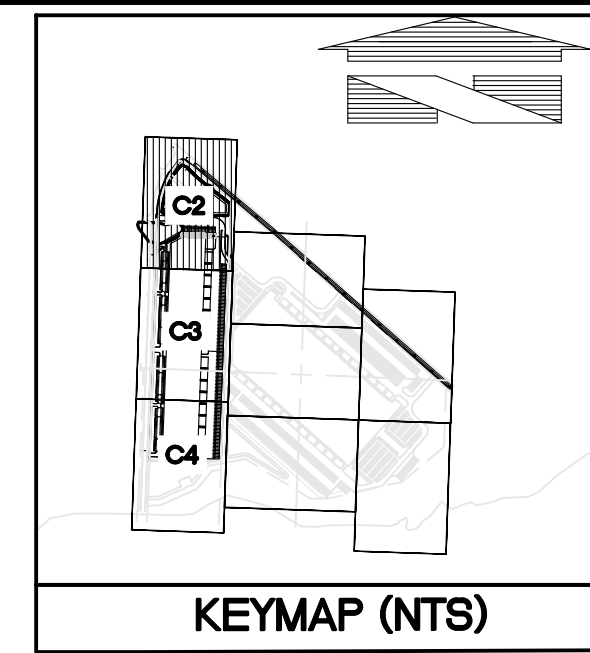


0 20' 40' 80'
SCALE: 1"=40'

SPOT SHOT LEGEND	
DESCRIPTION	PROPOSED
ME=MATCH EXISTING SPOT ELEVATION	601.20± ME
PROPOSED SPOT ELEVATION	595.00

CALLOUT

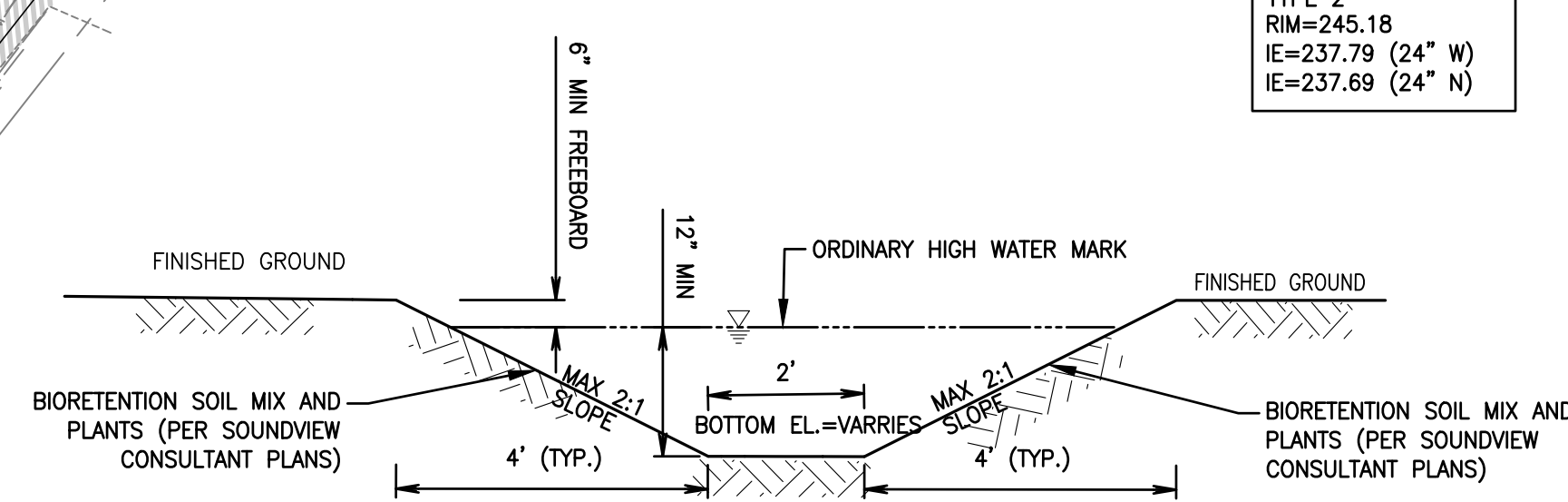
- HEAVY HMA (PER DETAIL ON SHEET C7)
- LIGHT HMA (PER DETAIL ON SHEET C7)
- HEAVY PCC (PER DETAIL ON SHEET C7)
- 6" VERTICAL CURB (PER DETAIL ON SHEET C7)



NEW BUILDING
551,551 SF = 12.66 AC
FF = ± 345.93-350.00

PROPOSED DETENTION POND
BOTTOM AREA = 120,274 SF
TOP OF POND = 247.90
MAX W.S. = 246.90
STATIC W.S. = 241.40
RISER HEIGHT = 5.5'
REQUIRED VOLUME = 727,601 CF
VOLUME PROVIDED = 733,616 CF

CATCH BASINS	CATCH BASINS
CB#13, TYPE 1, W/STD GRT RIM=243.97 IE=239.30 (16" S) IE=239.20 (16" N)	SDMH#6, TYPE 2, OUTLET STRUCTURE RIM=246.26 IE=241.50 (12" N) IE=241.40 (12" SW)
CB#14, TYPE 1, W/STD GRT RIM=243.96 IE=239.06 (16" S) IE=239.53 (16" NE)	SDMH#7, STORM PUMP RIM=246.66 IE=231.58 (24" S) IE=235.10 (24" W) IE=234.99 (6" N) SD FM
CB#15, TYPE 1, W/STD GRT RIM=242.76 IE=239.71 (12" E)	SDMH#8, STORM PUMP RIM=246.69 IE=237.46 (24" SW) IE=235.10 (24" E) IE=239.37 (6" N) SD FM
CB#26, TYPE 1, W/STD GRT RIM=239.91 IE=235.84 (24" S) IE=235.74 (24" NW)	SDMH#9, TYPE 2 RIM=245.43 IE=232.25 (24" S) IE=235.78 (12" W) IE=232.15 (24" N)
CB#27, TYPE 1, W/STD GRT RIM=240.10 IE=235.64 (24" SE) IE=232.50 (24" N)	SDMH#10, TYPE 2 RIM=244.79 IE=238.05 (16" SW) IE=238.05 (16" E)
CB#36, TYPE 1, W/STD GRT RIM=242.94 IE=237.75 (12" NW) IE=237.65 (12" E)	SDMH#11, TYPE 2 RIM=245.15 IE=232.40 (24" S) IE=236.00 (16" W) IE=232.30 (24" N)
CB#37, TYPE 1, W/STD GRT RIM=242.94 IE=237.41 (12" W) IE=237.31 (12" E)	SDMH#12, TYPE 2 RIM=244.96 IE=237.58 (24" S) IE=237.48 (24" NE)
CB#38, TYPE 1, W/STD GRT RIM=243.55 IE=237.07 (12" W) IE=236.97 (12" E)	SDMH#13, TYPE 2 RIM=244.70 IE=238.77 (12" W) IE=238.77 (12" SE)
DS#1, 8" ROOF DOWNSPOUT RIM=246.07 IE=241.61 (24" S) IE=241.61 (24" NE)	WATER QUALITY TREATMENT VAULT, MWS-L-6-8 RIM=245.22 IE=232.10 (24" S) IE=231.60 (24" N)
DS#2, 8" ROOF DOWNSPOUT RIM=245.86 IE=241.26 (24" W) IE=237.90 (24" S) IE=237.90 (24" E)	
DS#11, 8" ROOF DOWNSPOUT RIM=246.52 IE=241.76 (24" S) IE=241.76 (24" N)	
DS#20, 8" ROOF DOWNSPOUT RIM=242.47 IE=238.39 (24" S) IE=238.34 (24" N)	
DS#24, 8" ROOF DOWNSPOUT RIM=245.92 IE=241.51 (24" SW) IE=241.41 (24" E)	
SDMH#5, TYPE 2 RIM=245.18 IE=237.79 (24" W) IE=237.69 (24" N)	



PROPOSED DITCH/OPEN CHANNEL
SEE DETAIL ON THIS SHEET



APPROVED FOR CONSTRUCTION

APPROVED BY
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE _____

APPROVAL EXPIRES _____

MATCHLINE - SEE SHEET C3 FOR CONTINUATION

Revision: No. Date By Ckd. Appr.

Title: PRELIMINARY GRADING AND DRAINAGE FOR CHEHALIS INDUSTRIAL PARK

For: CRG REAL ESTATE SOLUTIONS 35 E. WACKER DRIVE CHICAGO, ILLINOIS 60601

Scale: Horizontal 1"=40' Vertical N/A

Designed: SGZ Drawn: SGZ Checked: BHE Approved: BHE Date: 5/24/23

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

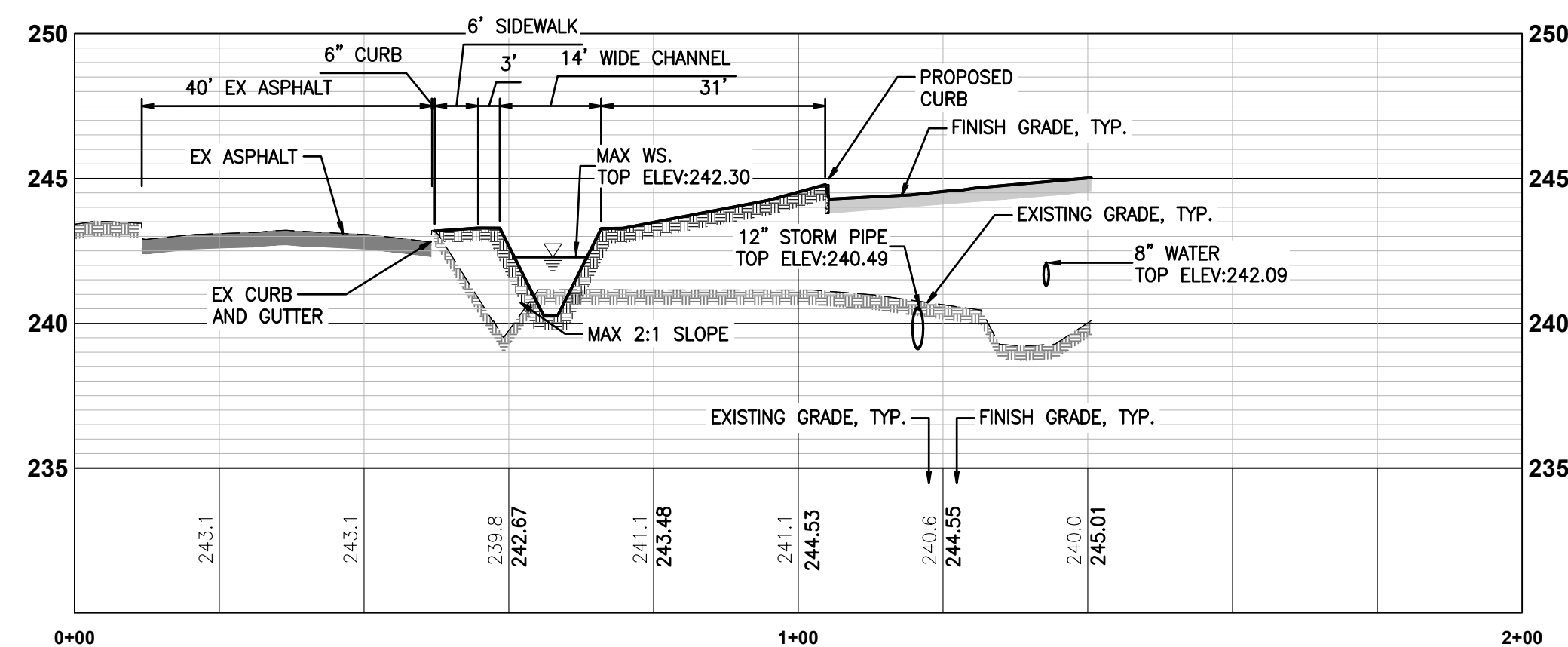
Job Number: 22323 Sheet: 9 of C4

CHEHALIS INDUSTRIAL PARK

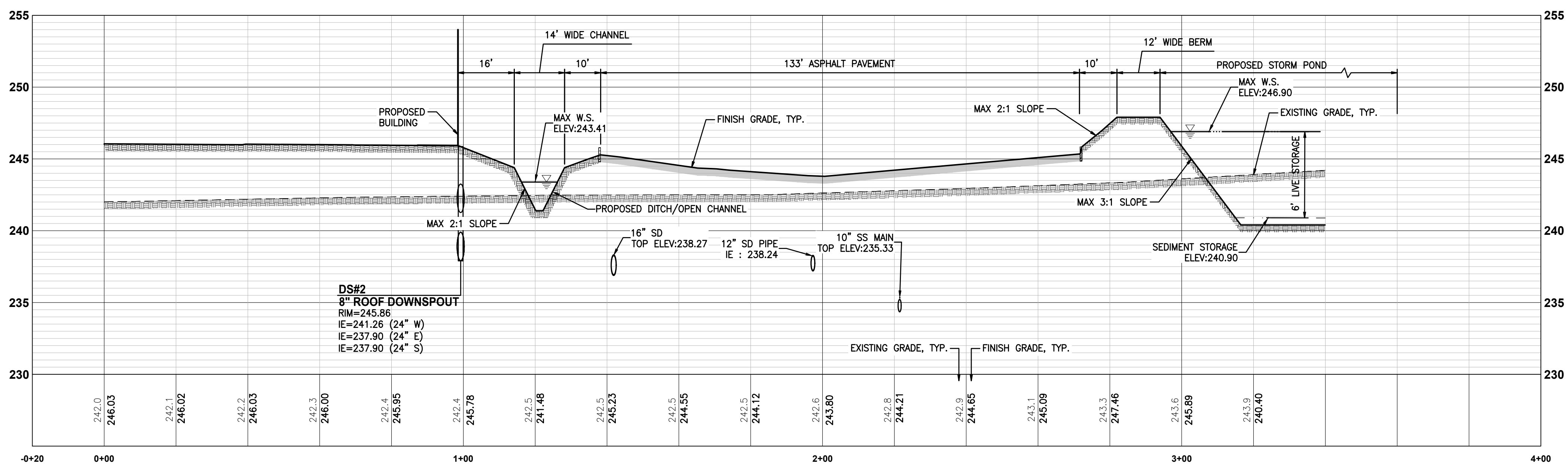
PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.

LEWIS COUNTY, WASHINGTON

SECTION DETAILS



PROPOSED DITCH/OPEN CHANNEL SECTION
SCALE: H: 1"=20', V: 1"=4'

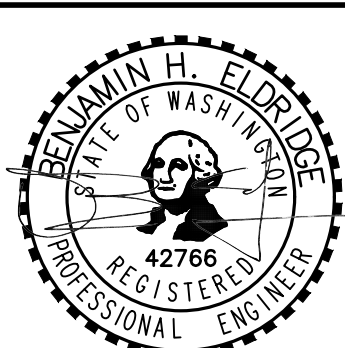


PROPOSED DITCH/OPEN CHANNEL SECTION
SCALE: H: 1"=20', V: 1"=4'

No.	Date	By	Chd.	Appr.	Revision

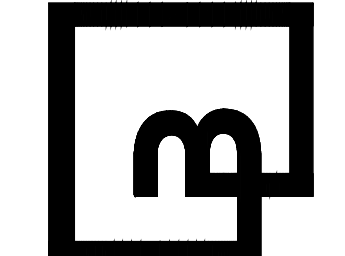
Title:
SECTION DETAILS
FOR
CHEHALIS INDUSTRIAL PARK

For:
CRG REAL ESTATE SOLUTIONS
35 E. WACKER DRIVE
CHICAGO, ILLINOIS 60601



Scale:	Horizontal	Vertical
	1"=40'	N/A
Designed: SZG	Drawn: SZG	Checked: BHE
		Approved: BHE
		Date: 5/24/23

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.com



Job Number
22323
Sheet
C5 of **9**

APPROVED FOR CONSTRUCTION

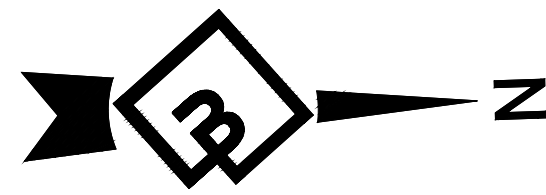
APPROVED BY
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE

APPROVAL EXPIRES



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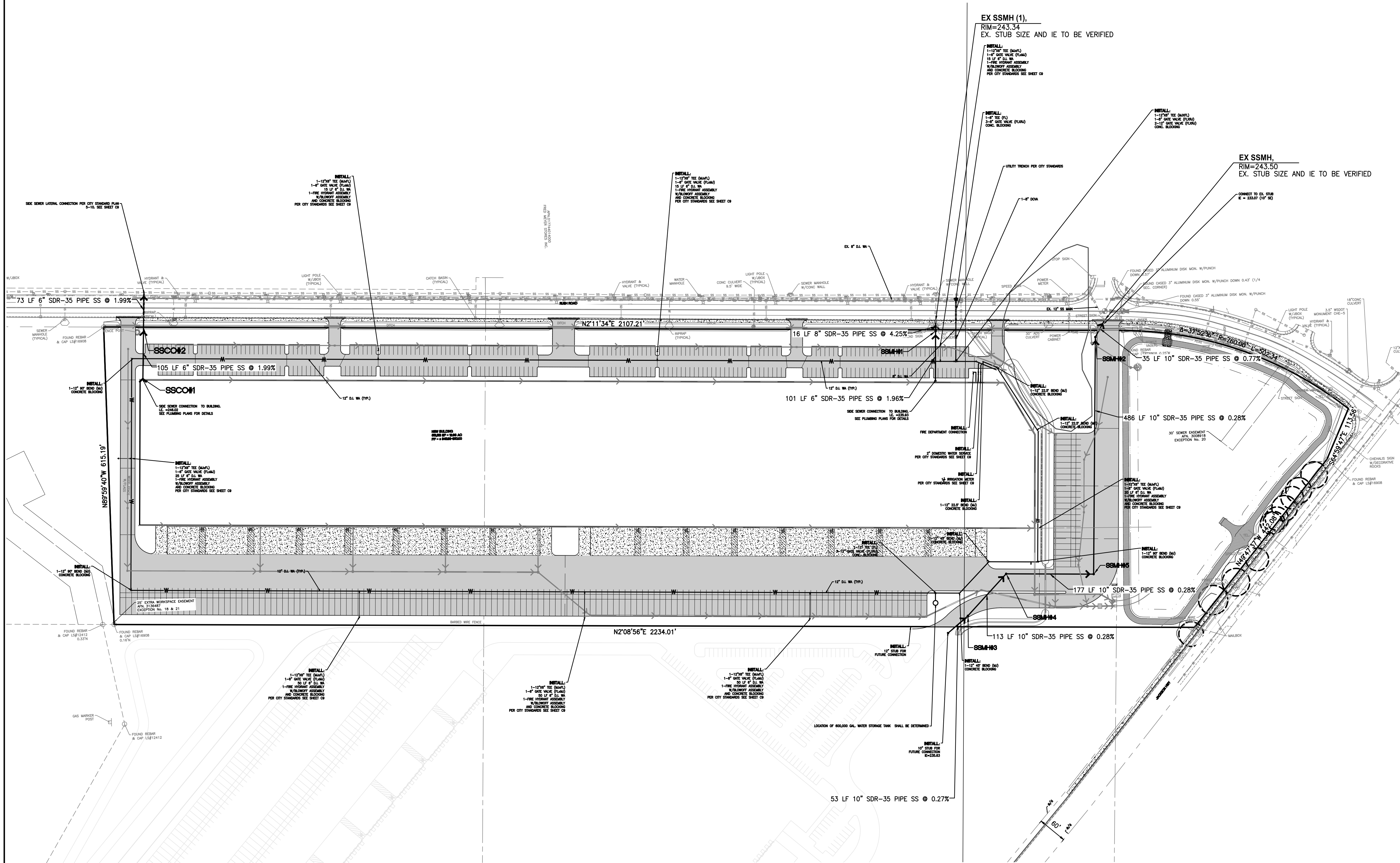


0 50' 100' 200'
SCALE: 1"=100'

CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

PRELIMINARY WATER AND SANITARY SEWER PLAN

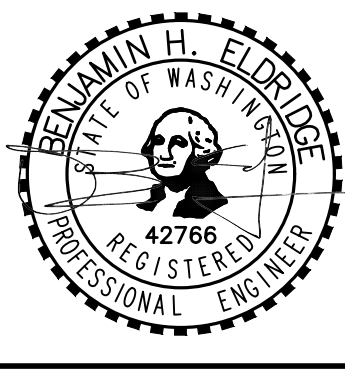


CATCH BASINS	
SSCO#1, 6" CO RIM=249.96 IE=245.98 (6" E) IE=245.98 (6" W)	
SSCO#2, 6" CO RIM=245.56 IE=243.87 (6" E) IE=243.87 (6" W)	
SSMH#1, RIM=242.71 IE=234.10 (6" E) IE=234.10 (6" W)	
SSMH#2, RIM=244.67 IE=233.25 (10" E) IE=233.36 (10" NW)	
SSMH#3, RIM=243.19 IE=235.48 (10" SE) IE=235.48 (10" NW)	
SSMH#4, RIM=242.95 IE=235.15 (10" SE) IE=235.15 (10" N)	
SSMH#5, RIM=244.30 IE=234.64 (10" S) IE=234.64 (10" W)	

Revision
No. Date By Ckd. Appr.

Title:
PRELIMINARY WATER AND
SANITARY SEWER PLAN
FOR
CHEHALIS INDUSTRIAL PARK

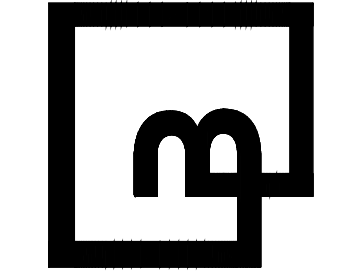
For:
CRG REAL ESTATE SOLUTIONS
35 E. WACKER DRIVE
CHICAGO, ILLINOIS 60601



Scale:
Horizontal 1"=100'
Vertical N/A

Designed: SGZ
Drawn: SGZ
Checked: BHE
Approved: BHE
Date: 5/24/23

Barghausen
Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



Job Number
22323
Sheet
C6 of 9

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PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE

APPROVAL EXPIRES



P:\22000a\22323\engineering\SEPA-Single BLDG\22323-WS.dwg 5/24/2023 5:13 PM SGBRECZ\ABHER

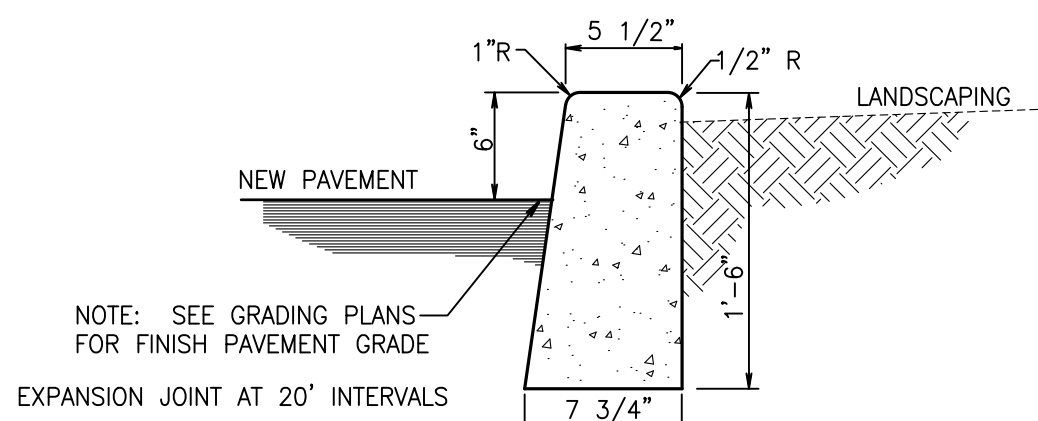
CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

CONSTRUCTION NOTES AND DETAILS

STORM DRAIN GENERAL NOTES:

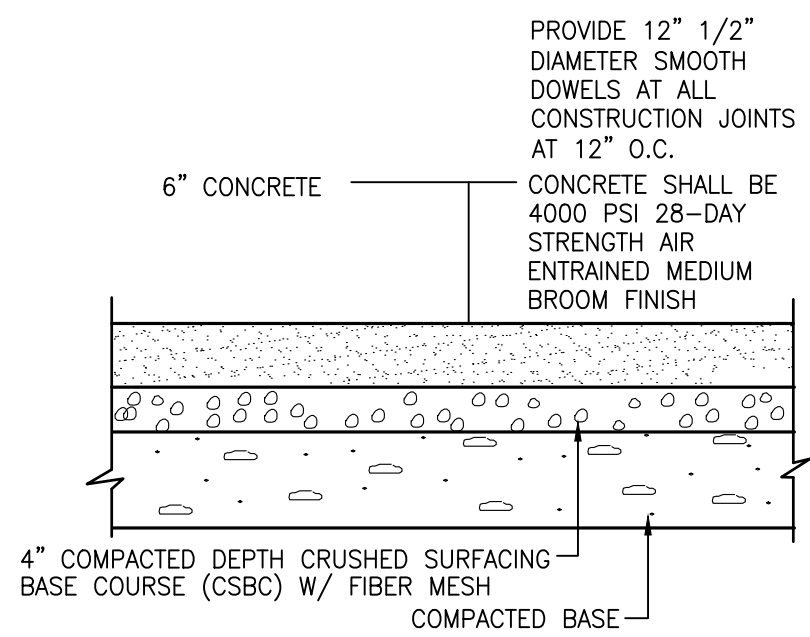
1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH THE CITY OF CHEHALIS DEVELOPMENT ENGINEERING STANDARDS AND THE MOST RECENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
2. TEMPORARY EROSION/WATER POLLUTION MEASURES WILL BE REQUIRED IN ACCORDANCE WITH THE STORM WATER MANAGEMENT PLAN AND SECTION 1-07.15 OF THE STANDARD SPECIFICATIONS.
3. COMPLY WITH ALL OTHER PERMITS AND REQUIREMENTS OF THE CITY OF CHEHALIS AND/OR OTHER GOVERNING AUTHORITIES OR AGENCIES.
4. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT AND THE ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION.
5. ALL STORM MAINS AND RETENTION/DETENTION AREAS WILL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
6. STORM DRAINPIPE WILL MEET THE FOLLOWING REQUIREMENTS:
 - A. PLAIN CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 86, CLASS 2.
 - B. REINFORCED CONCRETE PIPE CONFORMING TO THE REQUIREMENTS OF AASHTO M 170.
 - C. PVC PIPE CONFORMING TO ASTM D3034 SDR 35 OR ASTM F794 OR ASTM F679 TYPE 1 WITH JOINTS AND GASKETS CONFORMING TO ASTM D3212 AND ASTM F477.
 - D. DUCTILE IRON PIPE CONFORMING TO THE REQUIREMENTS OF AWWA C151, THICKNESS CLASS AS SHOWN ON THE PLANS.
 - E. HIGH-DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE CONFORMING TO AASHTO M 252 TYPES OR AASHTO M 294 TYPE S, WITH A GASKETED BELL AND SPIGOT JOINTS.
 - F. ALUMINIZED STEEL HELICAL OR SPIRAL RIB PIPE IN DIAMETERS OF 30 INCHES OR GREATER, WITH A MANNING'S VALUE OF 0.020 OR LESS.
7. SPECIAL STRUCTURES, OIL/WATER SEPARATORS AND OUTLET CONTROLS WILL BE INSTALLED PER PLANS AND MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD TO THE PUBLIC WORKS DEPARTMENT. TRAFFIC CONTROL PLANS MUST BE APPROVED PRIOR TO THE START OF CONSTRUCTION.
9. CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
10. WHERE CONNECTIONS REQUIRE FIELD VERIFICATIONS, THE CONTRACTOR WILL EXPOSE CONNECTION POINTS AND VERIFY NECESSARY FITTINGS TWO BUSINESS DAYS PRIOR TO INITIATING THE WORK.
11. ALL STORM LINES AND CATCHBASINS WILL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISION 7 OF THE STANDARD SPECIFICATIONS PRIOR TO PAVING. HYDRANT FLUSHING OF THE LINES IS NOT AN ACCEPTABLE CLEANING METHOD. TESTING OF THE STORM MAIN WILL INCLUDE TELEVISION INSPECTION AT THE CONTRACTOR'S EXPENSE. THE PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT WILL DETERMINE WHETHER THE INSPECTION WILL BE PERFORMED BY THE CITY OR BY A REPRESENTATIVE OF THE CONTRACTOR UNDER THE CITY'S DIRECTION. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.
12. FILL PLACEMENT WILL NOT BE ALLOWED IN ANY OPEN CHANNEL USED FOR STORM CONVEYANCE WITHOUT WRITTEN APPROVAL FROM THE PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT.
13. CONTRACTORS AND/OR PROPERTY OWNERS ARE REQUIRED TO CHANNEL WATER WHEN INSTALLING OR REPAIRING A DRIVEWAY. WATER MAY BE CHANNELLED WITH A BERM OR A PIPE. STORM WATER MUST BE DIVERTED TO CITY STORM MAINS WHEN POSSIBLE.
14. THE CITY MUST BE NOTIFIED A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. A REPRESENTATIVE FROM THE CITY MUST BE PRESENT AT THE TIME OF THE TAP.
15. PRIOR TO BACKFILL, ALL MAINS AND APPURTENANCES WILL BE INSPECTED AND APPROVED BY A CITY INSPECTOR. APPROVAL DOES CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN RESPONSIBILITY OF REPAIRING ALL DEFICIENCIES AND FAILURES REVEALED DURING REQUIRED TESTING FOR ACCEPTANCE AND THROUGHOUT THE DURATION OF THE WARRANTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY IN ADVANCE OF ALL REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE REEXCAVATED FOR INSPECTION AT NO COST TO THE CITY.



NOTE: SEE GRADING PLANS FOR FINISH PAVEMENT GRADE
EXPANSION JOINT AT 20' INTERVALS

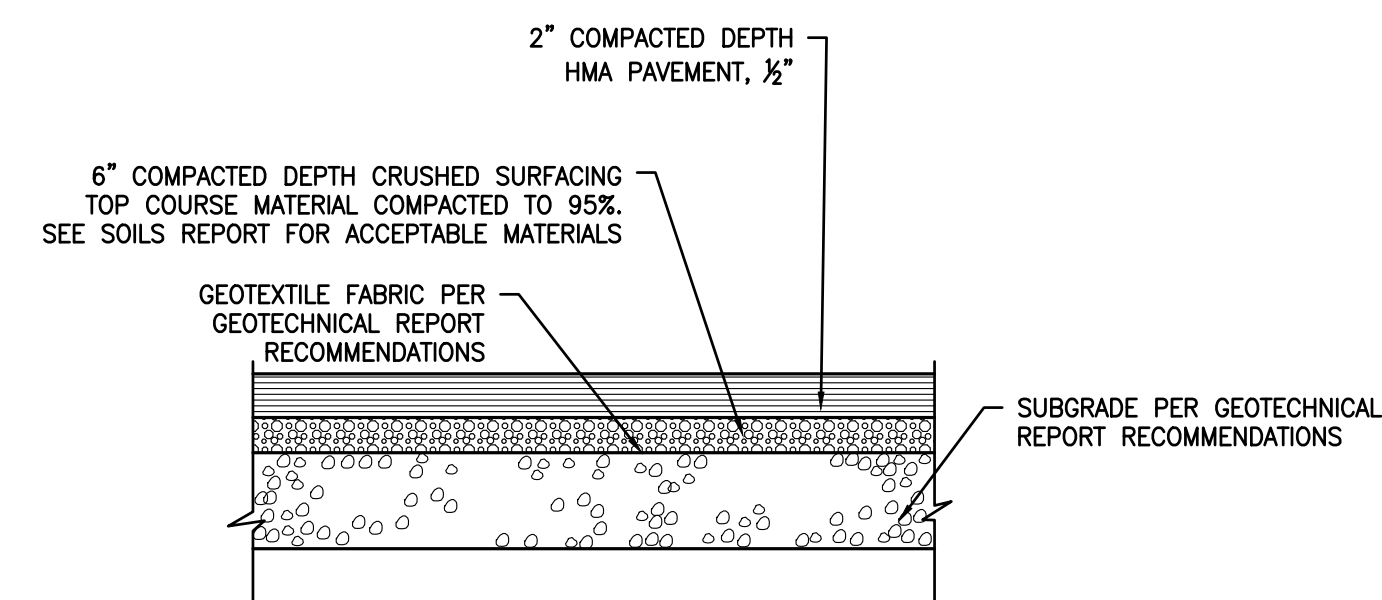
VERTICAL CURB DETAIL

3
C13
NOT TO SCALE



HEAVY DUTY PORTLAND CEMENT CONCRETE PAVEMENT

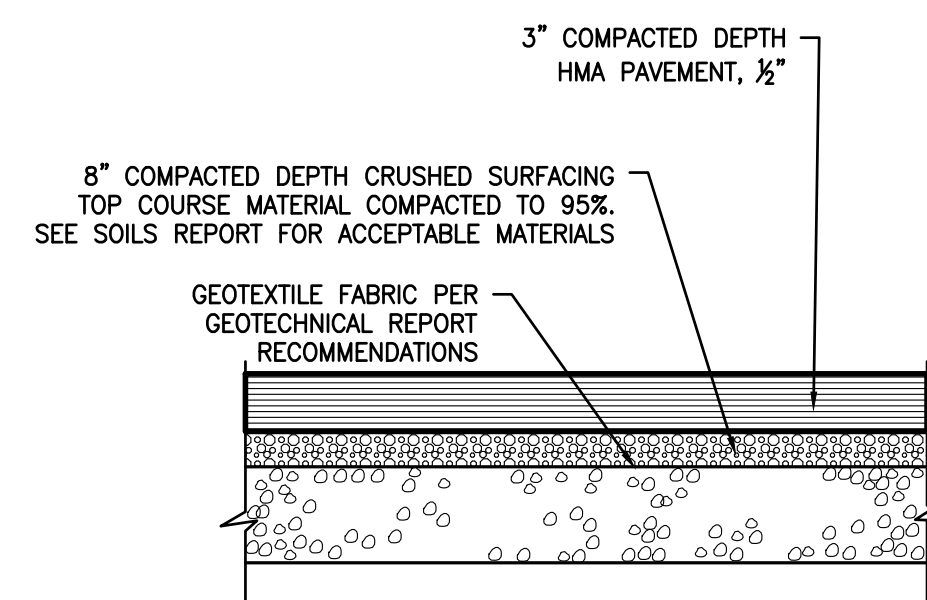
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LIGHT-DUTY ASPHALT PAVING SECTION

1
C13
ALTERNATE: 4\"/>

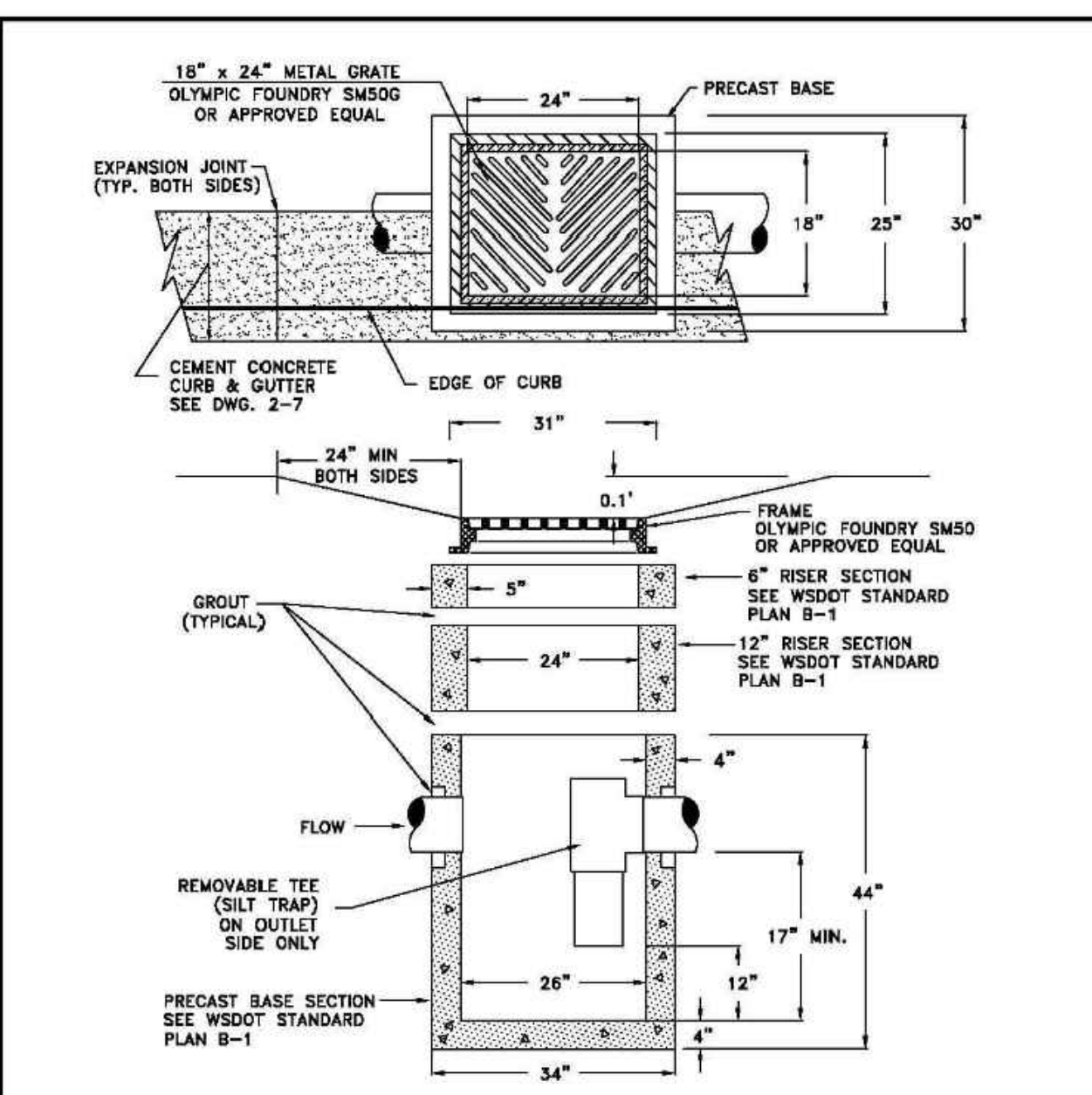
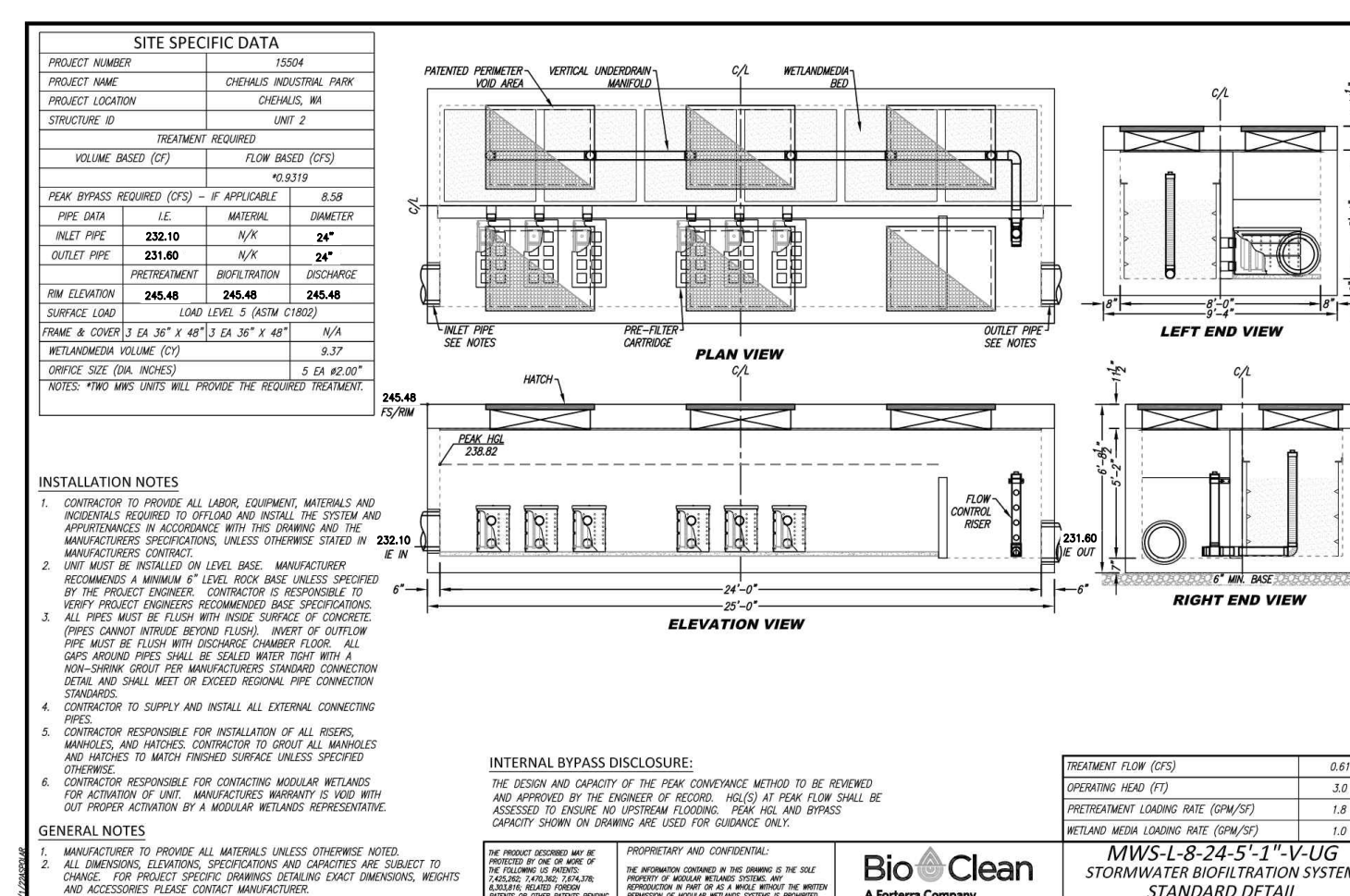
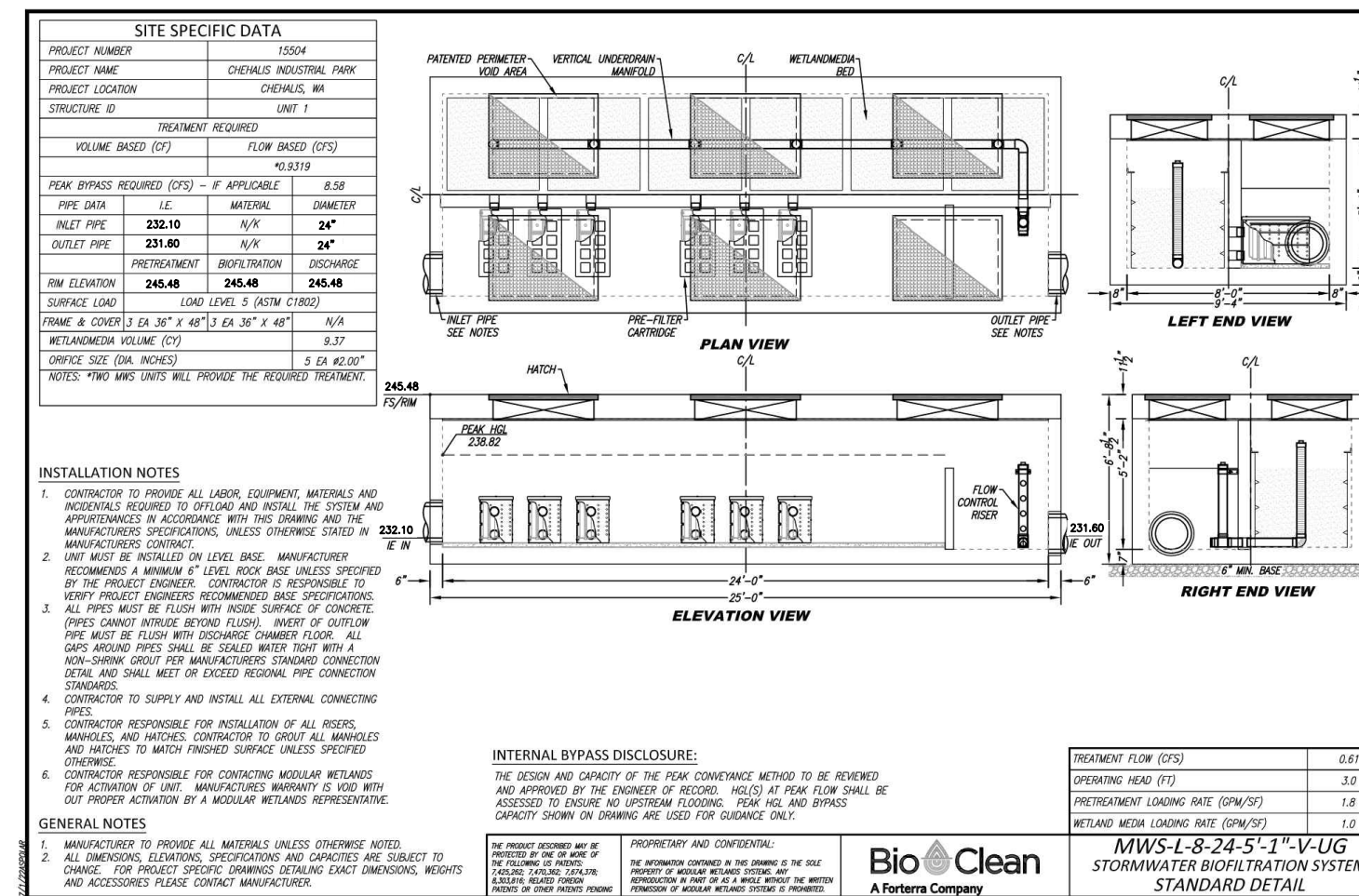
NOTE: DETAIL IS FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT PREPARED BY TERRA ASSOCIATES, INC. DATED MAY 03, 2022 FOR PAVEMENT, AGGREGATE, OVER-EXCAVATION, AND SUBGRADE REQUIREMENTS.



HEAVY-DUTY ASPHALT PAVING SECTION

2
C13
ALTERNATE: 5.5\"/>

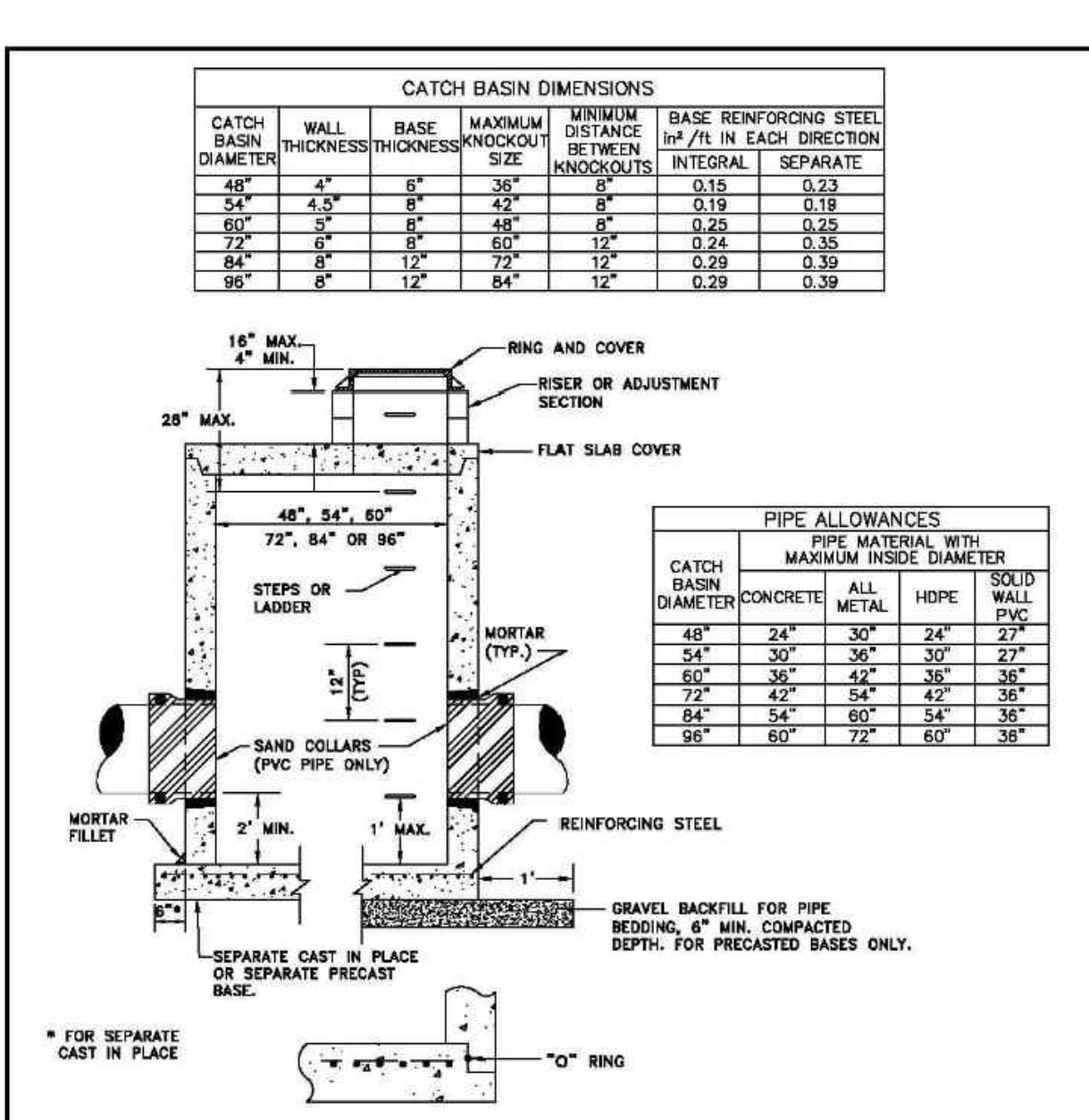
NOTE: DETAIL IS FOR REFERENCE ONLY. GENERAL CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT PREPARED BY TERRA ASSOCIATES, INC. DATED MAY 03, 2022 FOR PAVEMENT, AGGREGATE, OVER-EXCAVATION, AND SUBGRADE REQUIREMENTS.



Catch Basin with Silt Trap Tee

APPROVED BY
James R Nichols
CITY ENGINEER

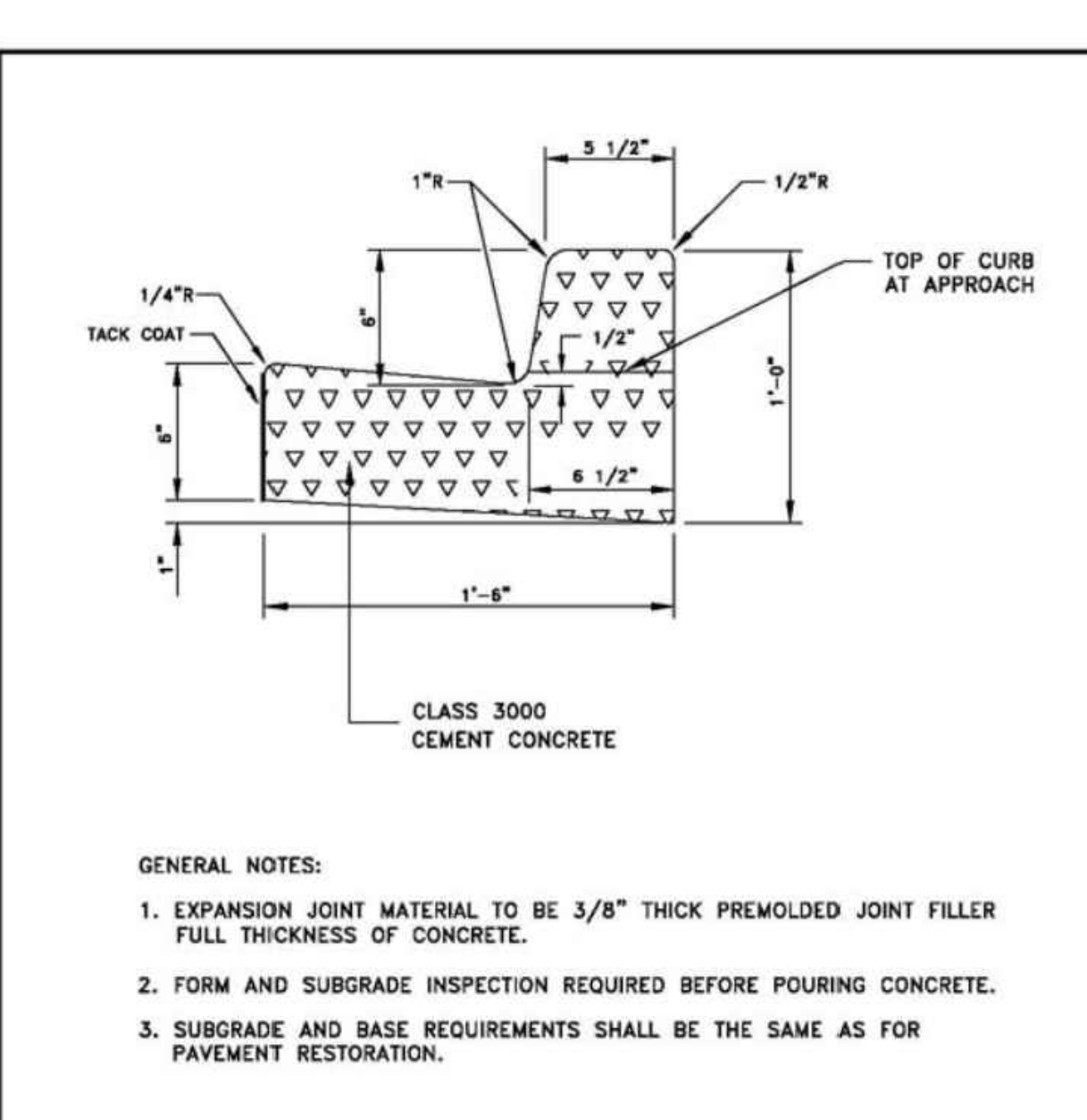
DWG. NO.
3-1
REVISED DATE
1/02/2003



Catch Basin Type 2

APPROVED BY
James R Nichols
CITY ENGINEER

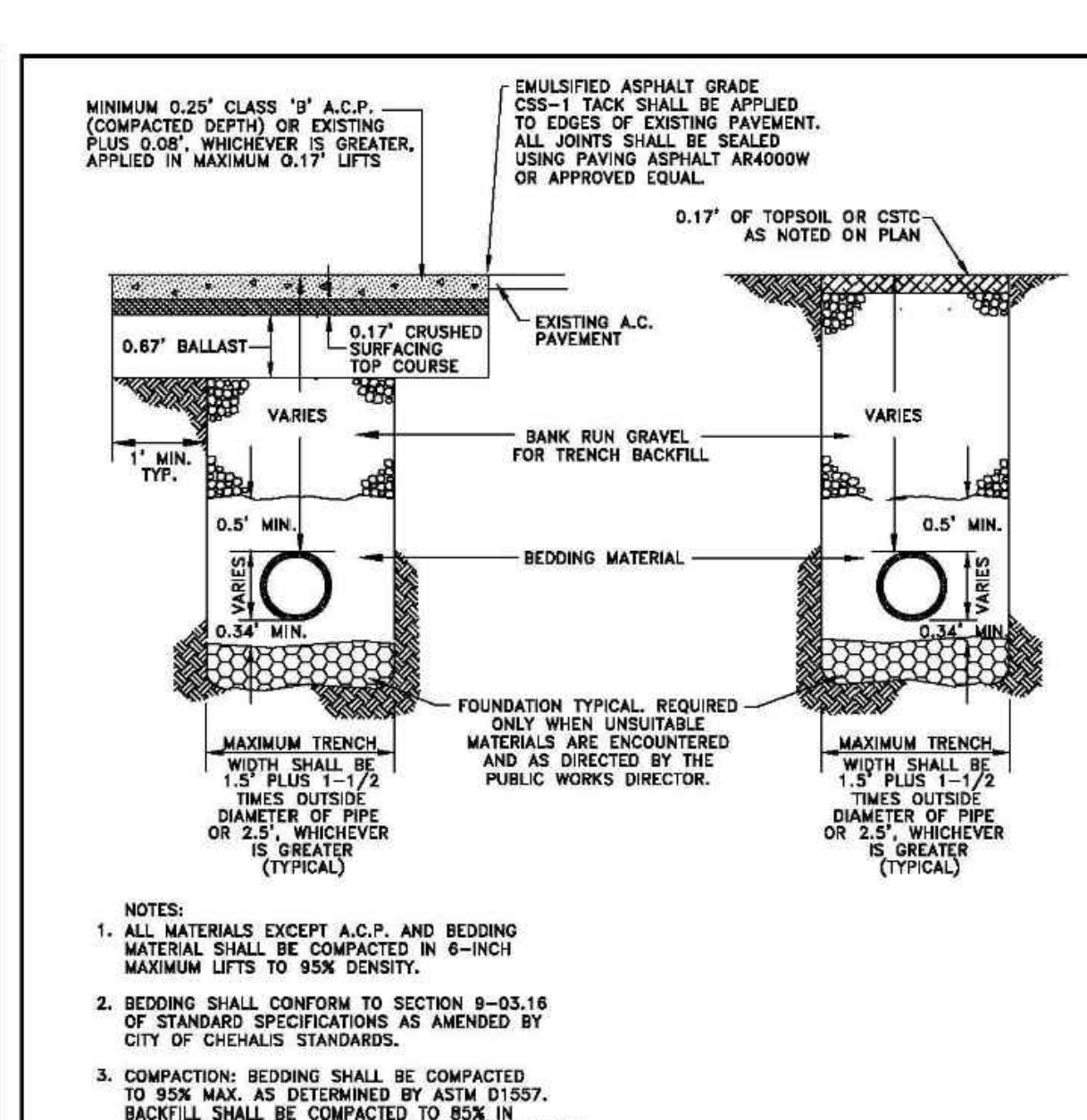
DWG. NO.
3-9
REVISED DATE
4/14/2005



Cement Concrete Curb & Gutter

APPROVED BY
James R Nichols
CITY ENGINEER

DWG. NO.
2-7
REVISED DATE
1/02/2003



Trench Pavement Restoration Detail

APPROVED BY
James R Nichols
CITY ENGINEER

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

APPROVED FOR CONSTRUCTION

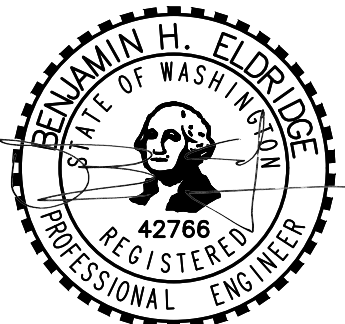
APPROVED BY
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE

APPROVAL EXPIRES

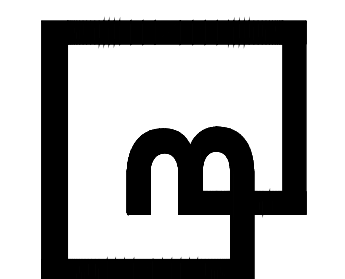
CONSTRUCTION NOTES AND DETAILS FOR CHEHALIS INDUSTRIAL PARK

CRG REAL ESTATE SOLUTIONS
35 E. WACKER DRIVE
CHICAGO, ILLINOIS 60601



Scale:
Horizontal 1\"/>

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com



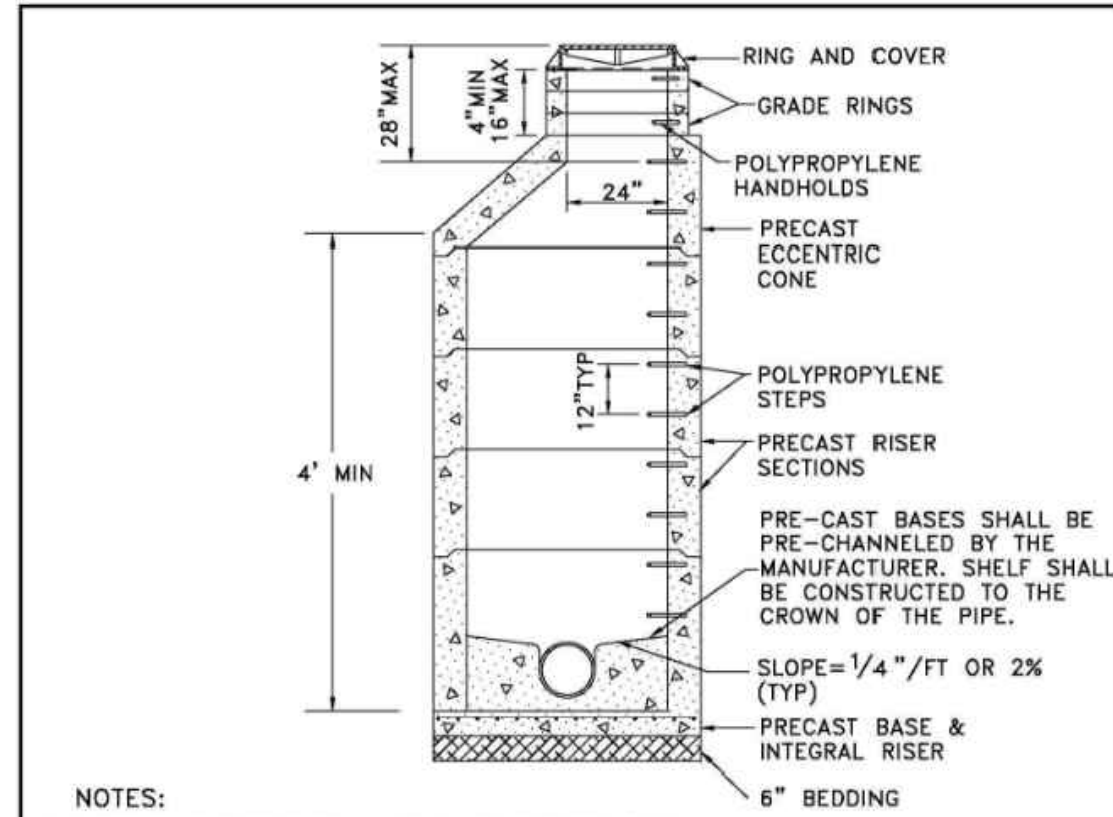
Job Number
22323

Sheet
C7 of 13

CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

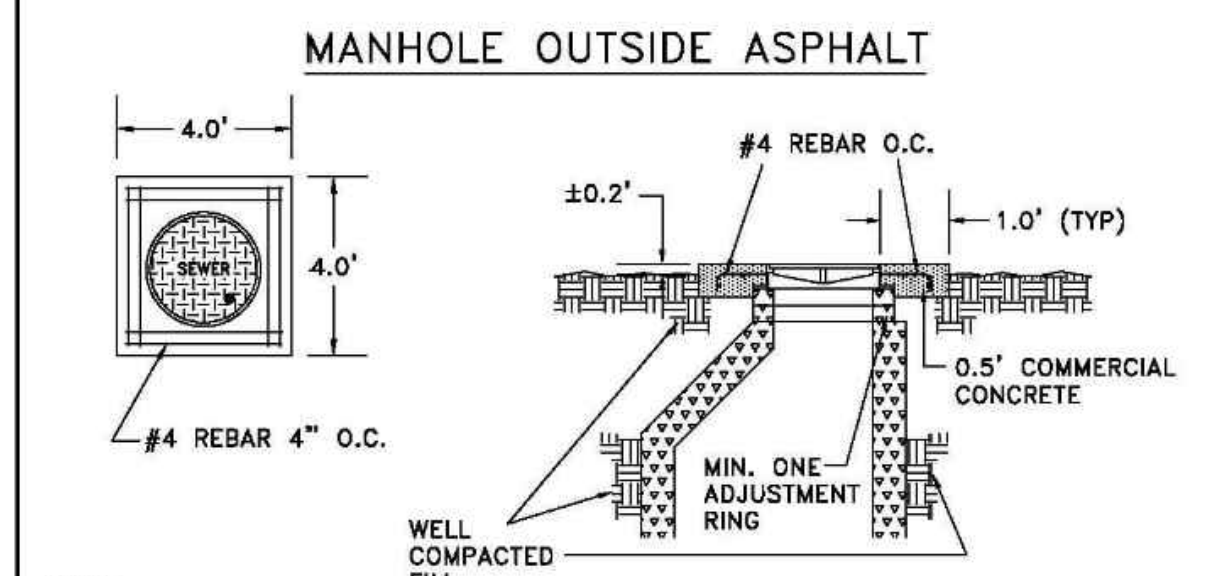
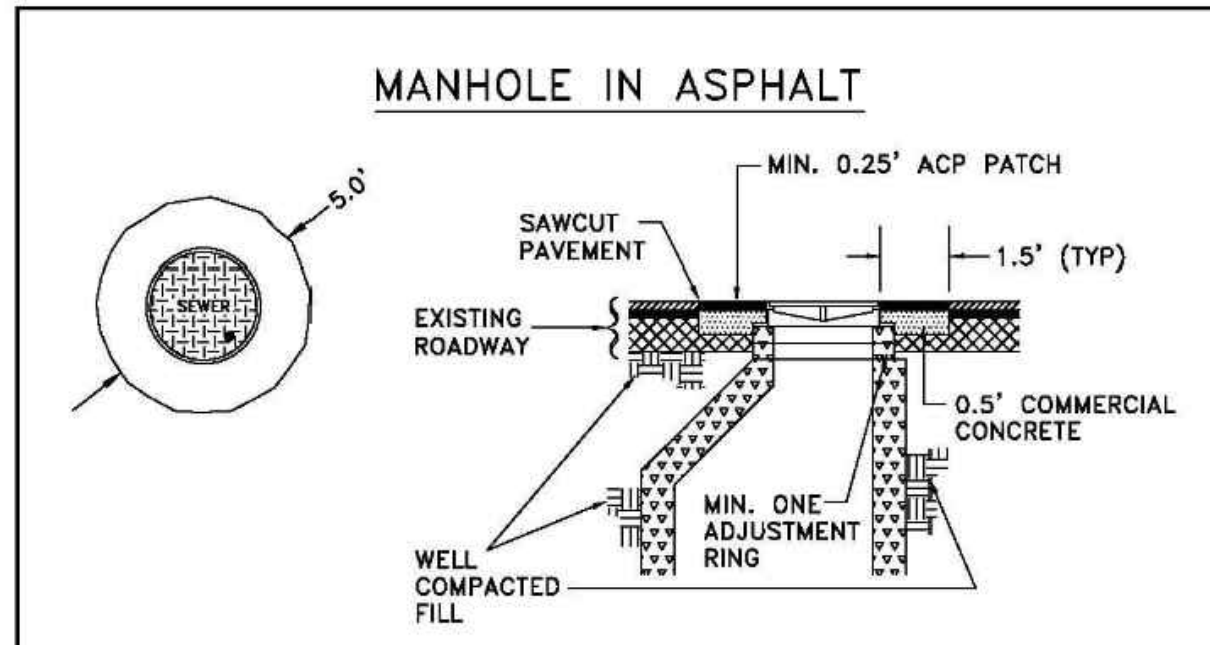
CONSTRUCTION NOTES AND DETAILS



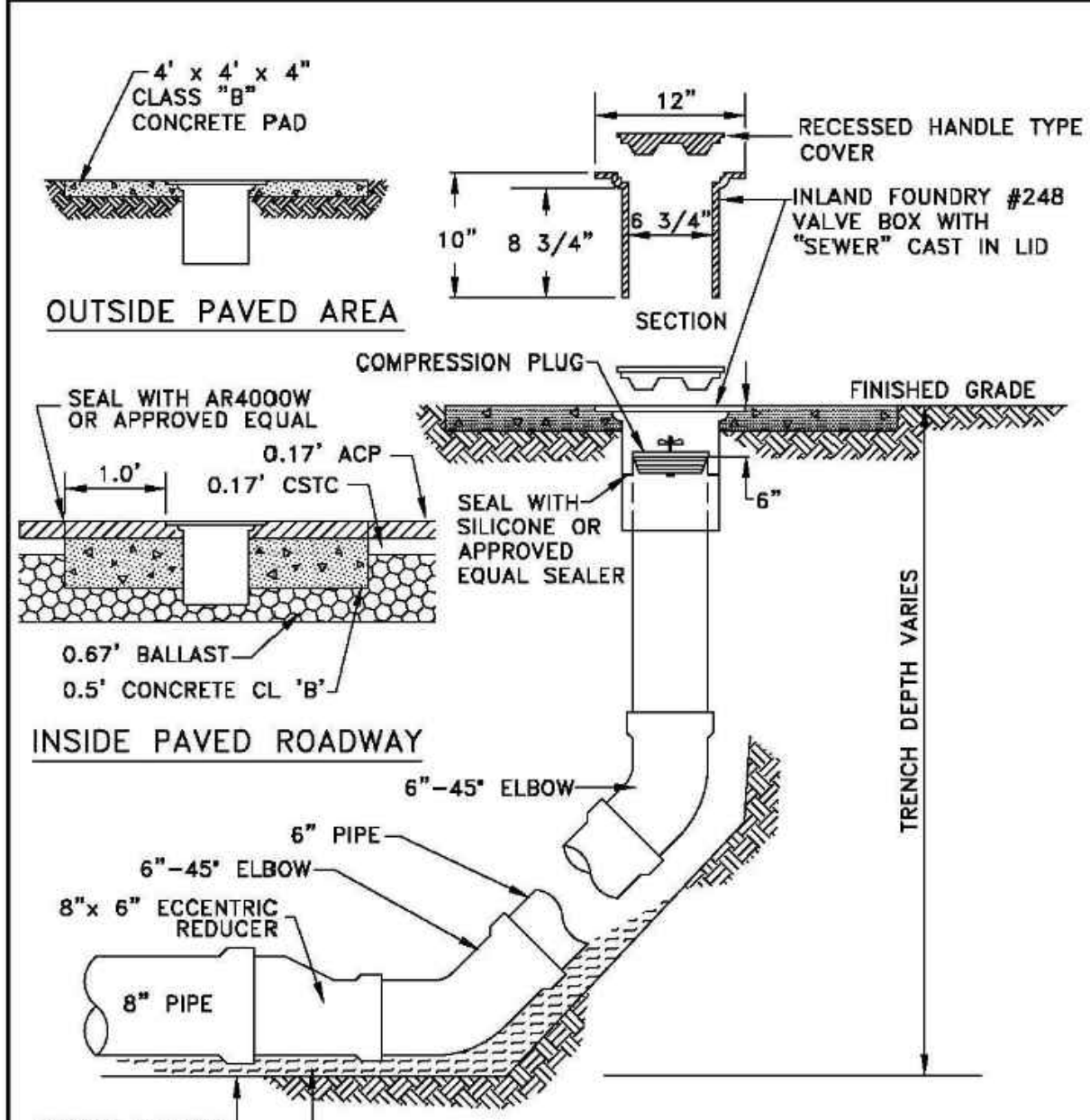
NOTES:

1. PRECAST MANHOLES SHALL MEET THE REQUIREMENTS OF ASTM C478. JOINTS SHALL BE RUBBER GASKETED CONFORMING TO ASTM C443 AND SHALL BE GROUTED FROM THE INSIDE & OUTSIDE. LIFT HOLES SHALL BE GROUTED FROM THE OUTSIDE & INSIDE OF THE MANHOLE.
2. STEPS IN MANHOLE SHALL HAVE 6" MINIMUM CLEARANCE. HANDHOLES IN ADJUSTMENT SECTION SHALL HAVE 3" MINIMUM CLEARANCE. THE FIRST STEP OR HANDHOLD SHALL BE A MAXIMUM OF 12" FROM THE TOP OF THE COVER.
3. CONNECTION TO MANHOLE SHALL BE MADE BY KOR-N-SEAL BOOT, UNLESS AN ALTERNATIVE CONNECTION METHOD IS SPECIFICALLY APPROVED AND AUTHORIZED BY THE PUBLIC WORKS DIRECTOR.
4. NON-REINFORCED CONCRETE IN CHANNEL AND SHELF SHALL BE CLASS 3000.
5. SEE DETAIL 5-3 FOR MANHOLE COLLAR INSTALLATION.
6. A SEWER GUARD SHALL BE INSTALLED IN ANY MANHOLE SUBJECT TO FLOODING.

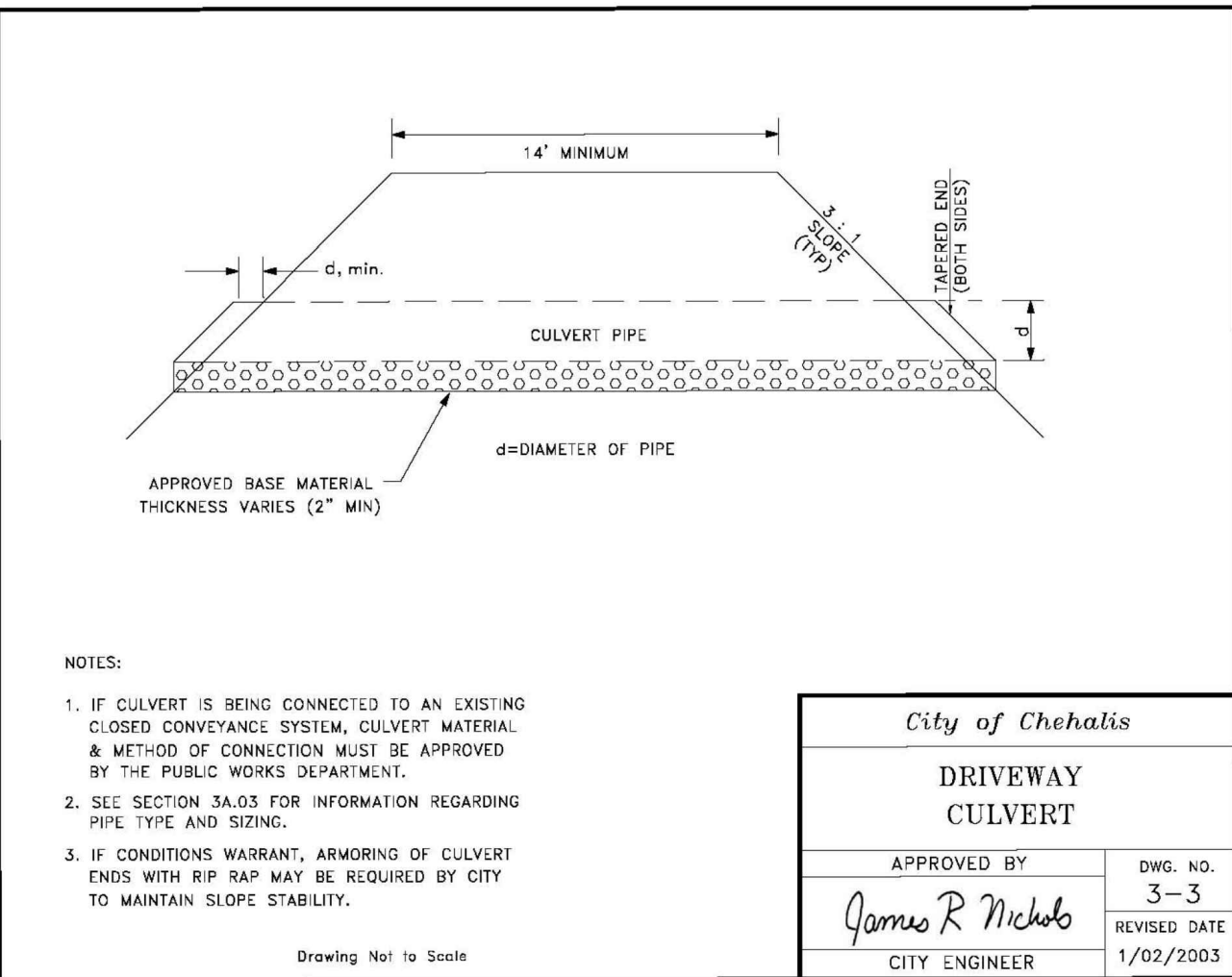
City of Chehalis	
TYPICAL MANHOLE	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-1
CITY ENGINEER	REVISED DATE
	4/05/2007



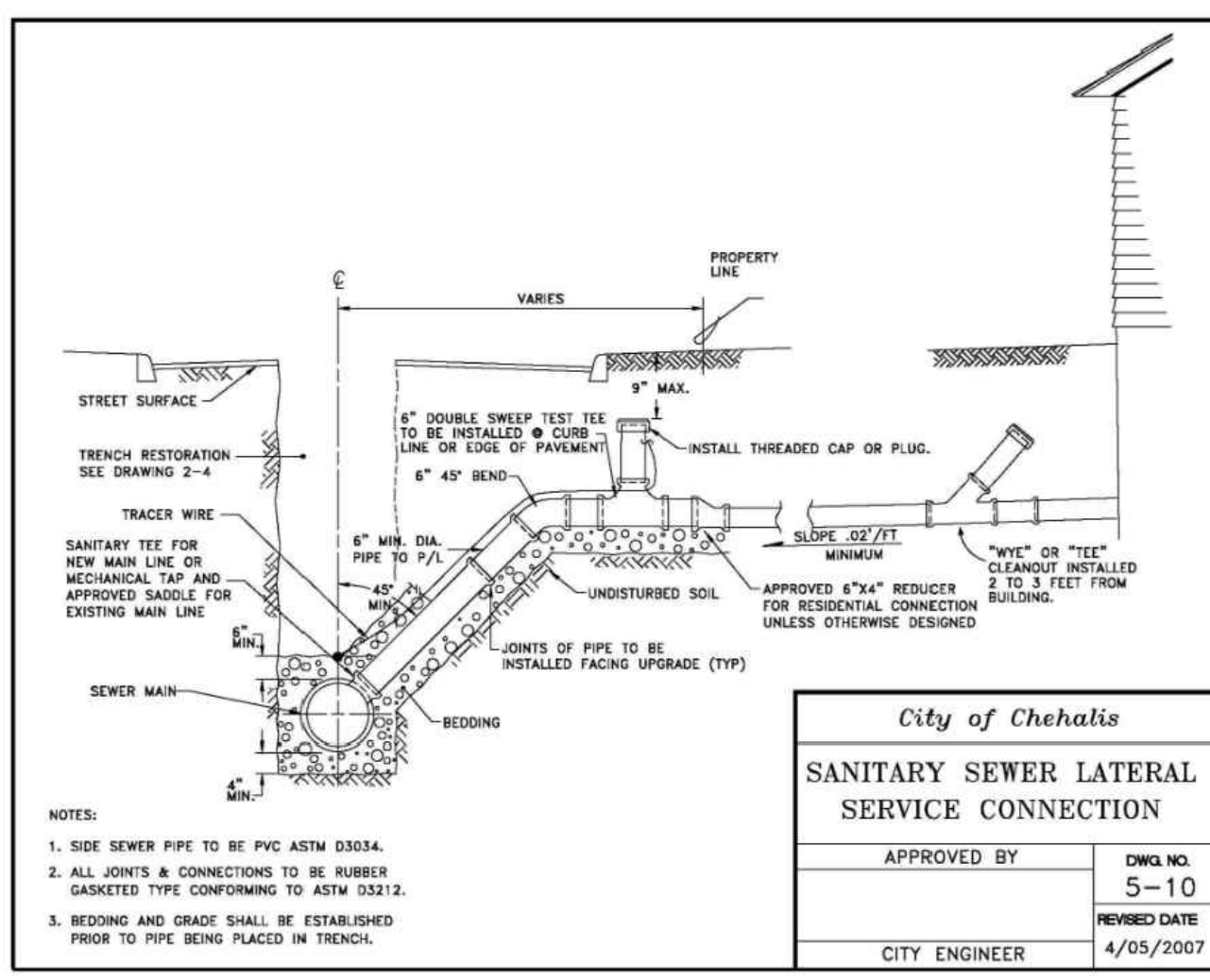
City of Chehalis	
MANHOLE COLLAR	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-3
CITY ENGINEER	REVISED DATE
	1/02/2003



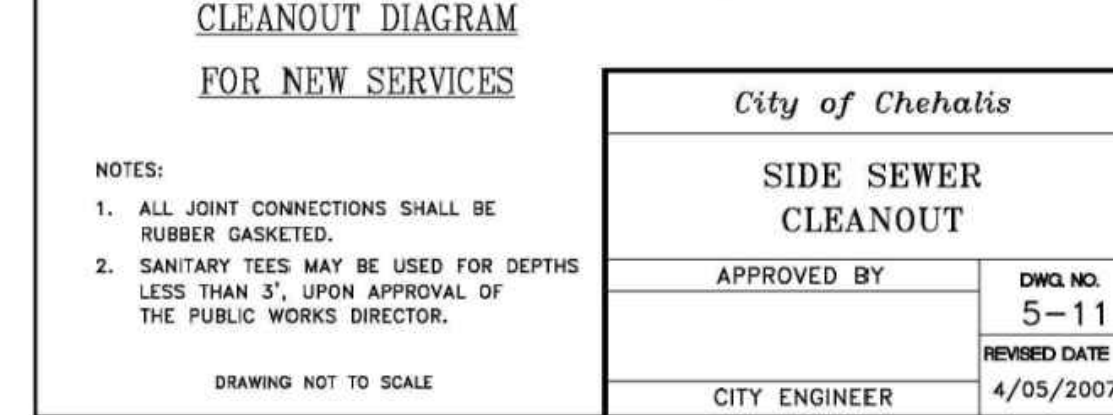
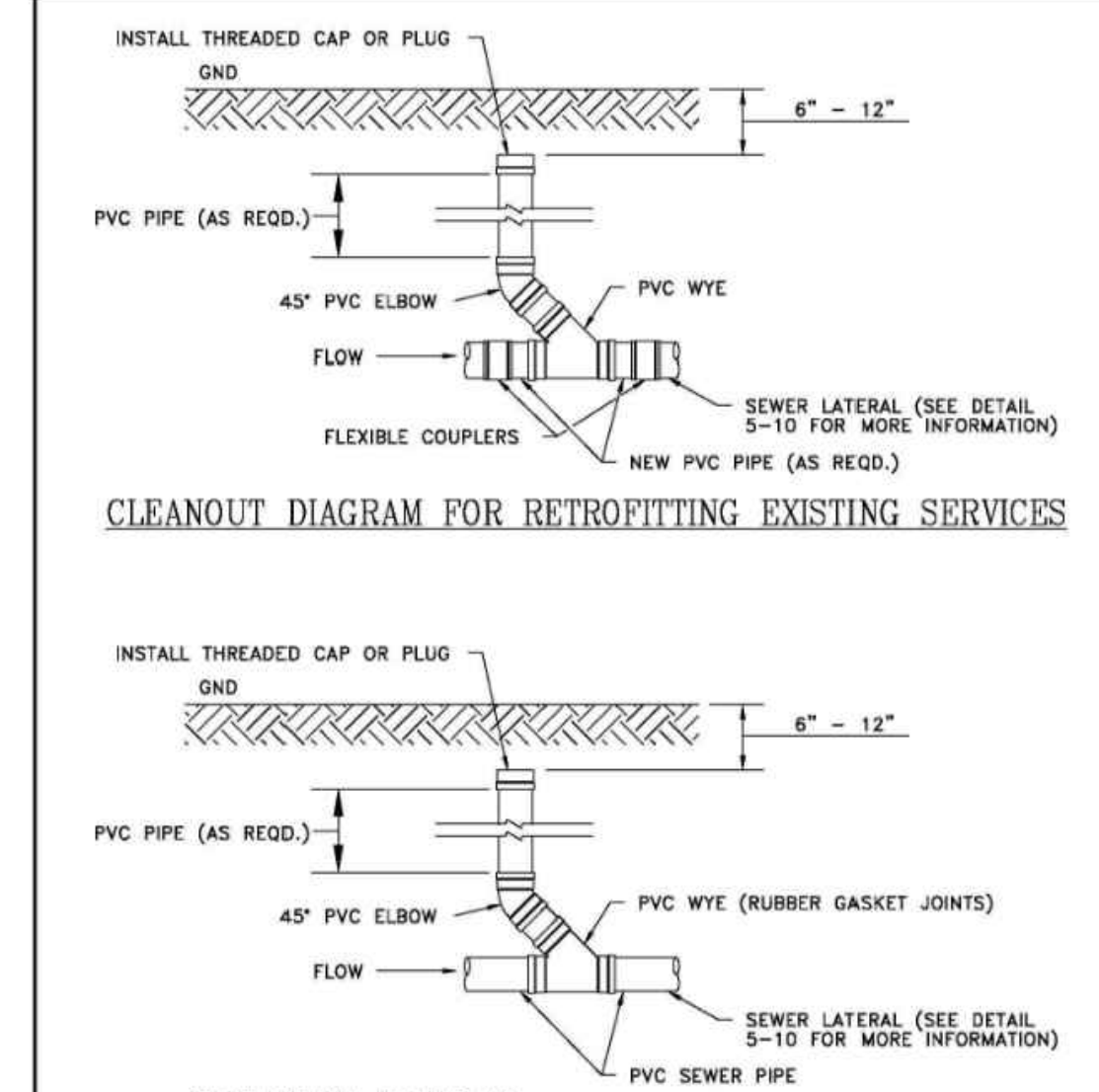
City of Chehalis	
CLEANOUT	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-5
CITY ENGINEER	REVISED DATE
	1/02/2003



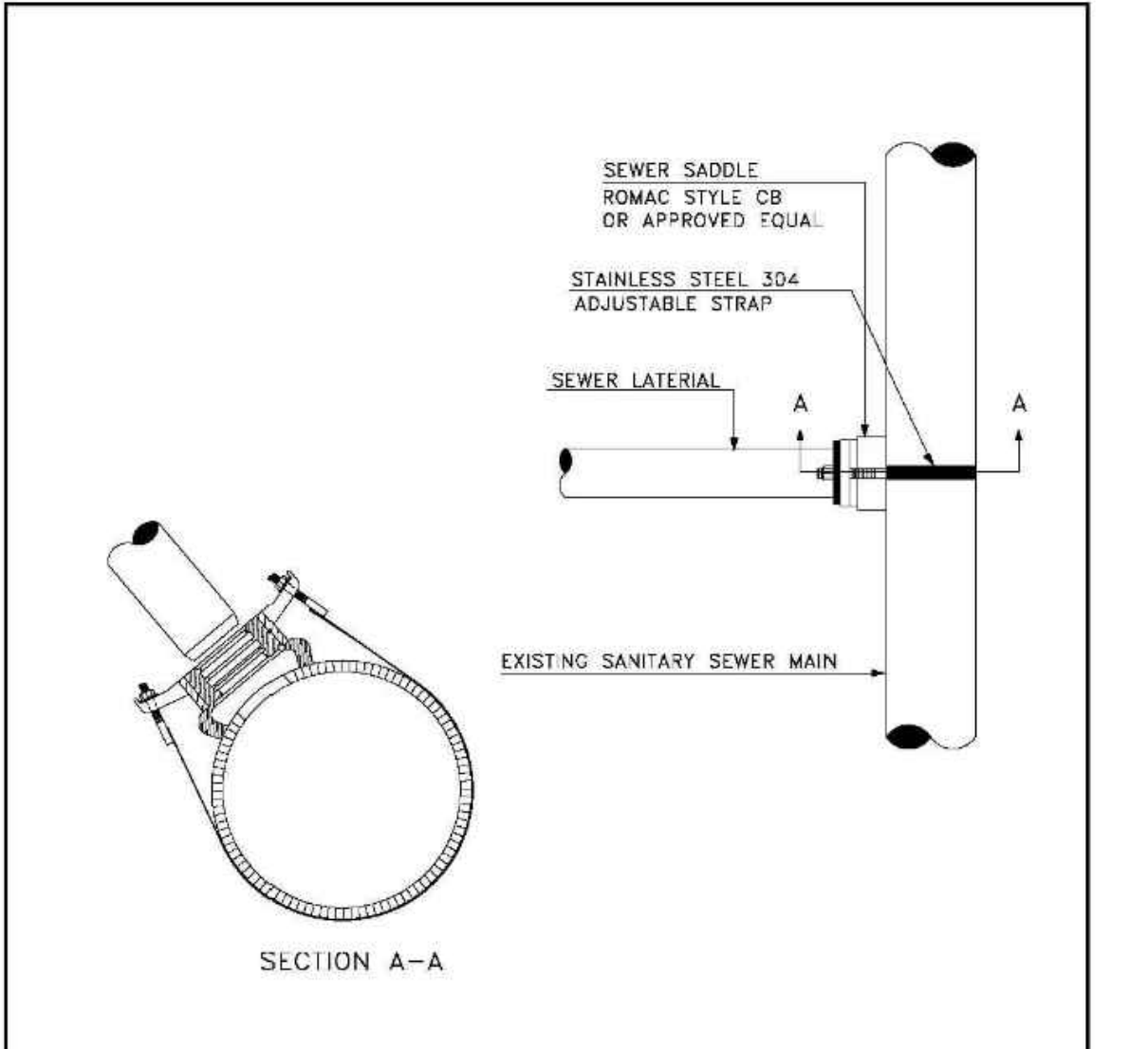
City of Chehalis	
DRIVEWAY CULVERT	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	3-3
CITY ENGINEER	REVISED DATE
	1/02/2003



City of Chehalis	
SANITARY SEWER LATERAL SERVICE CONNECTION	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-10
CITY ENGINEER	REVISED DATE
	4/05/2007



City of Chehalis	
SIDE SEWER CLEANOUT	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-11
CITY ENGINEER	REVISED DATE
	4/05/2007



City of Chehalis	
SANITARY SEWER SADDLE TAP	
APPROVED BY	DWG. NO.
<i>James R Nichols</i>	5-12
CITY ENGINEER	REVISED DATE
	1/02/2003

WATER MAIN GENERAL NOTES:

1. ALL WORKMANSHIP AND MATERIAL WILL BE IN ACCORDANCE WITH CITY OF CHEHALIS 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 PRECONSTRUCTION MEETING WILL BE HELD WITH THE PUBLIC WORKS DEPARTMENT AND THE ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION.
3. ALL WATER MAINS WILL BE DUCTILE IRON CEMENT MORTAR LINED THICKNESS CLASS 52.
4. GATE VALVES WILL BE RESILIENT WEDGE, NRS (NONRISING 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 AMERICAN FLOW CONTROL SERIES 2500. 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.
5. FIRE HYDRANTS WILL BE MUELLER CENTURION A-423, M&H RELIANT STYLE 129, CLOW MEDALLION, OR KENNEDY GUARDIAN K81D, WATEROUS PACER MODEL WB-67-250 OR AVK 2780. HYDRANTS WILL BE INSTALLED IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE INTERNATIONAL 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.
6. ALL LINES WILL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE ABOVE- REFERENCED SPECIFICATIONS (SEE NOTE 1).
7. ALL PIPES AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE PLACED 12 TO 18 INCHES UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE OF PLASTIC, NONBIODEGRADABLE, METAL CORE, OR BACKING MARKED "WATER" THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE WILL BE TERRA TAPE 17 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, 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 BROUGHT 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 FEET OF SLACK WILL BE PROVIDED TO ALLOW FOR CONNECTION TO THE LOCATOR. A ONE-POUND 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 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 A "W" OR "WW" EMBOSSED ONE-FOURTH INCH INTO THE CONCRETE.
11. ALL WATER SYSTEM CONNECTIONS SERVING BUILDINGS OR PROPERTIES WITH DOMESTIC POTABLE WATER, FIRE SPRINKLER OR IRRIGATION SYSTEMS WILL 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 1-800-424-5555 A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATIONS.
13. THE CITY WILL BE NOTIFIED FIVE 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 BUSINESS DAYS PRIOR TO THE DISTRIBUTION OF SHUTDOWN NOTICES. CUSTOMERS INVOLVED WITH OR AFFECTED BY WATER SERVICE

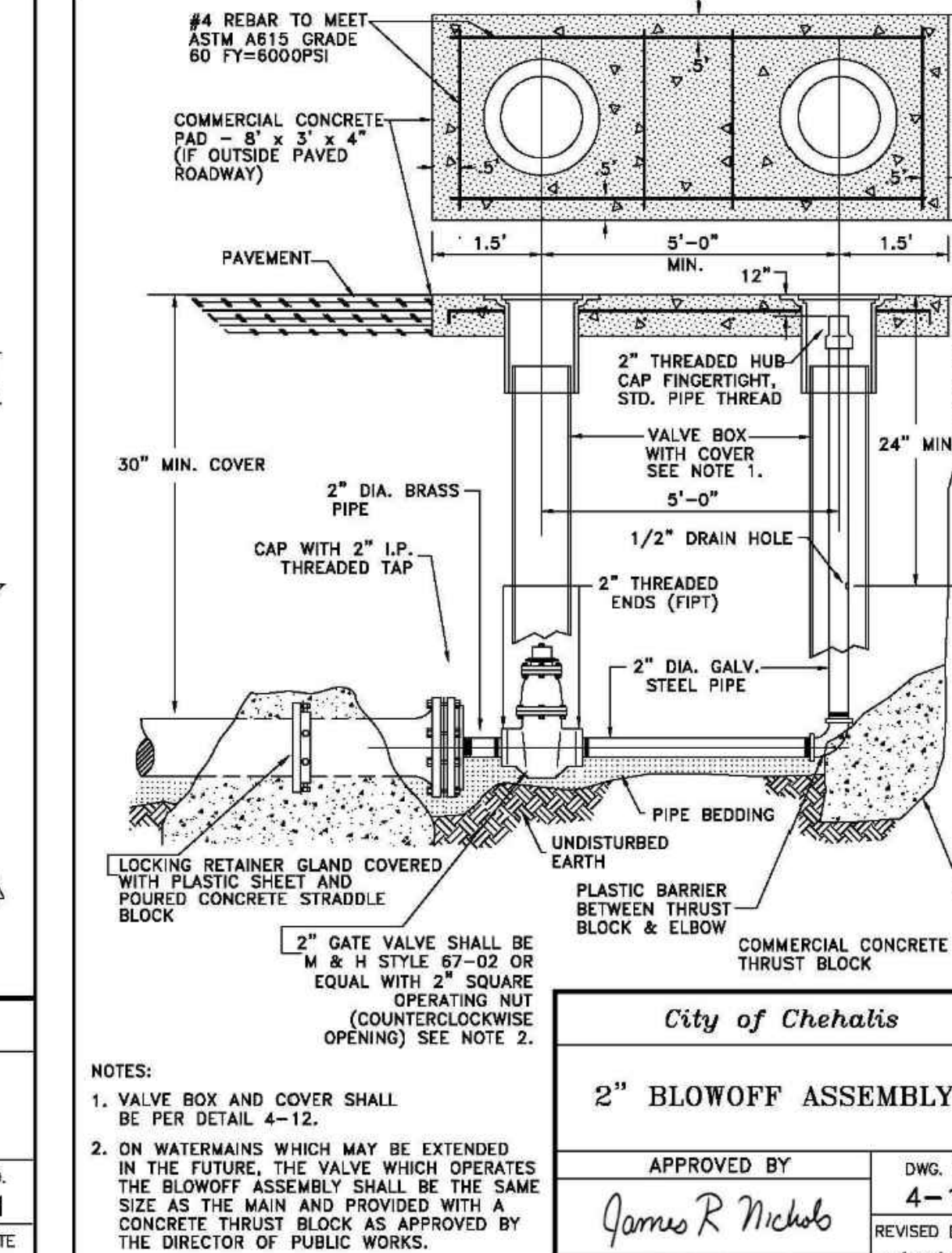
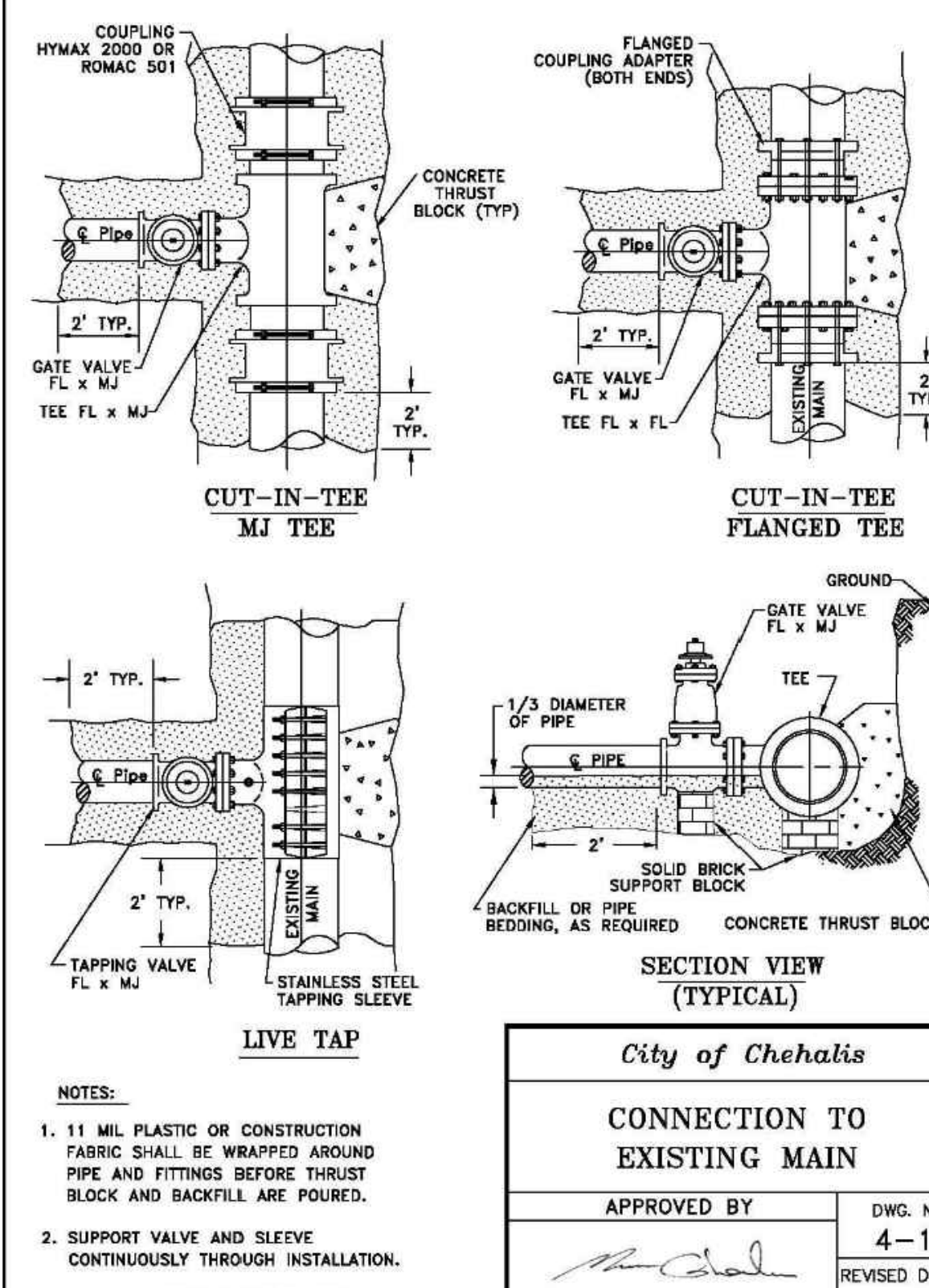
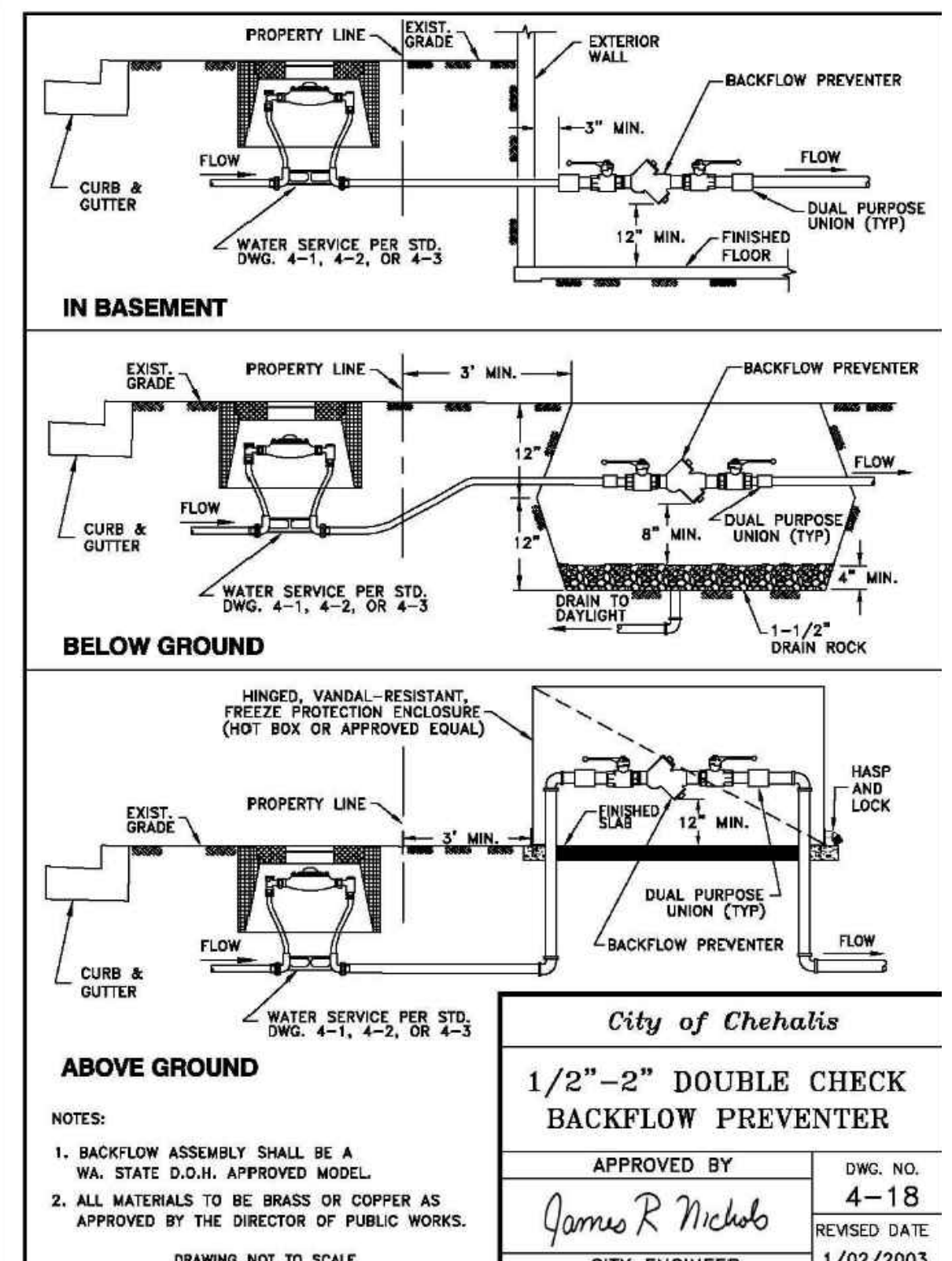
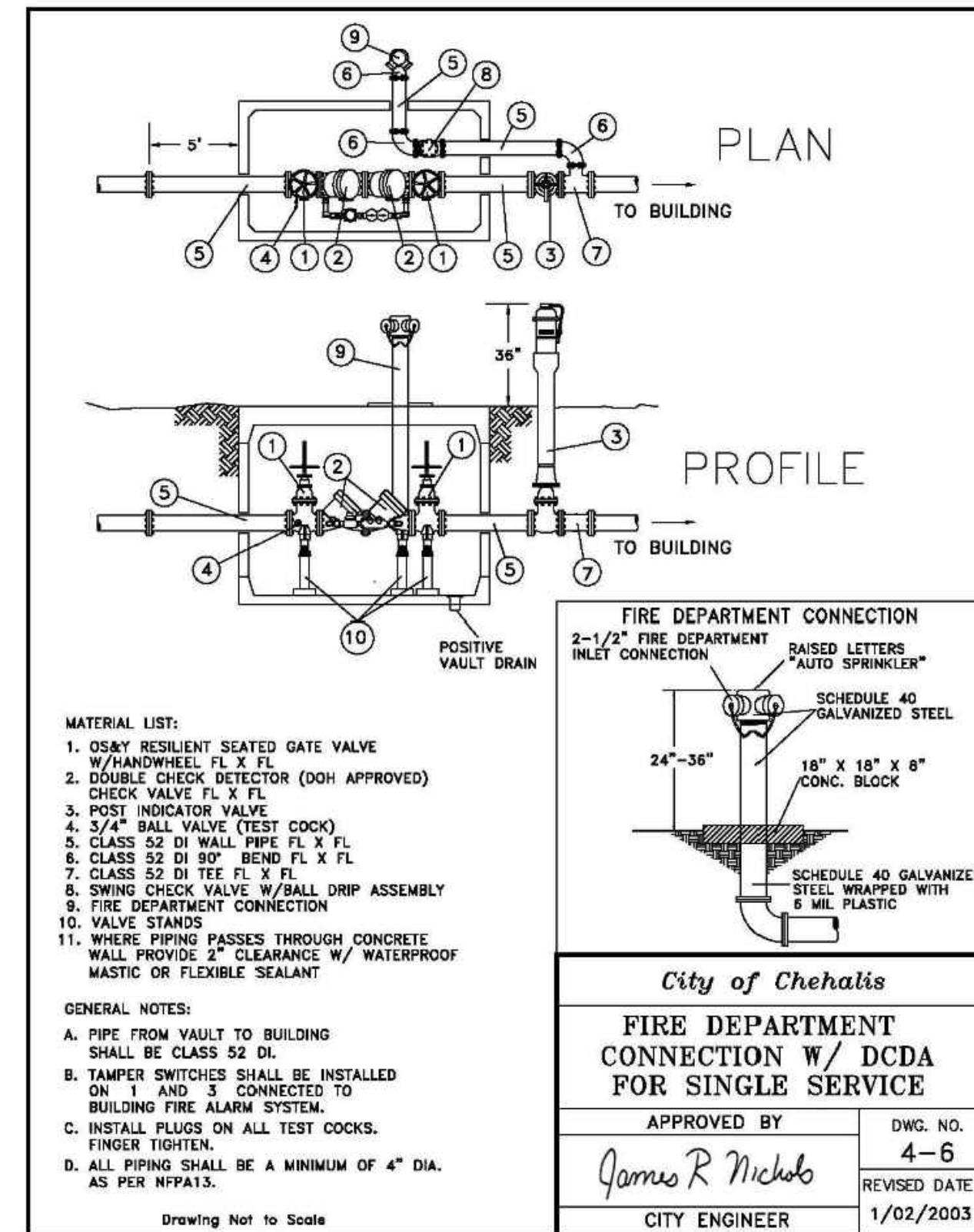
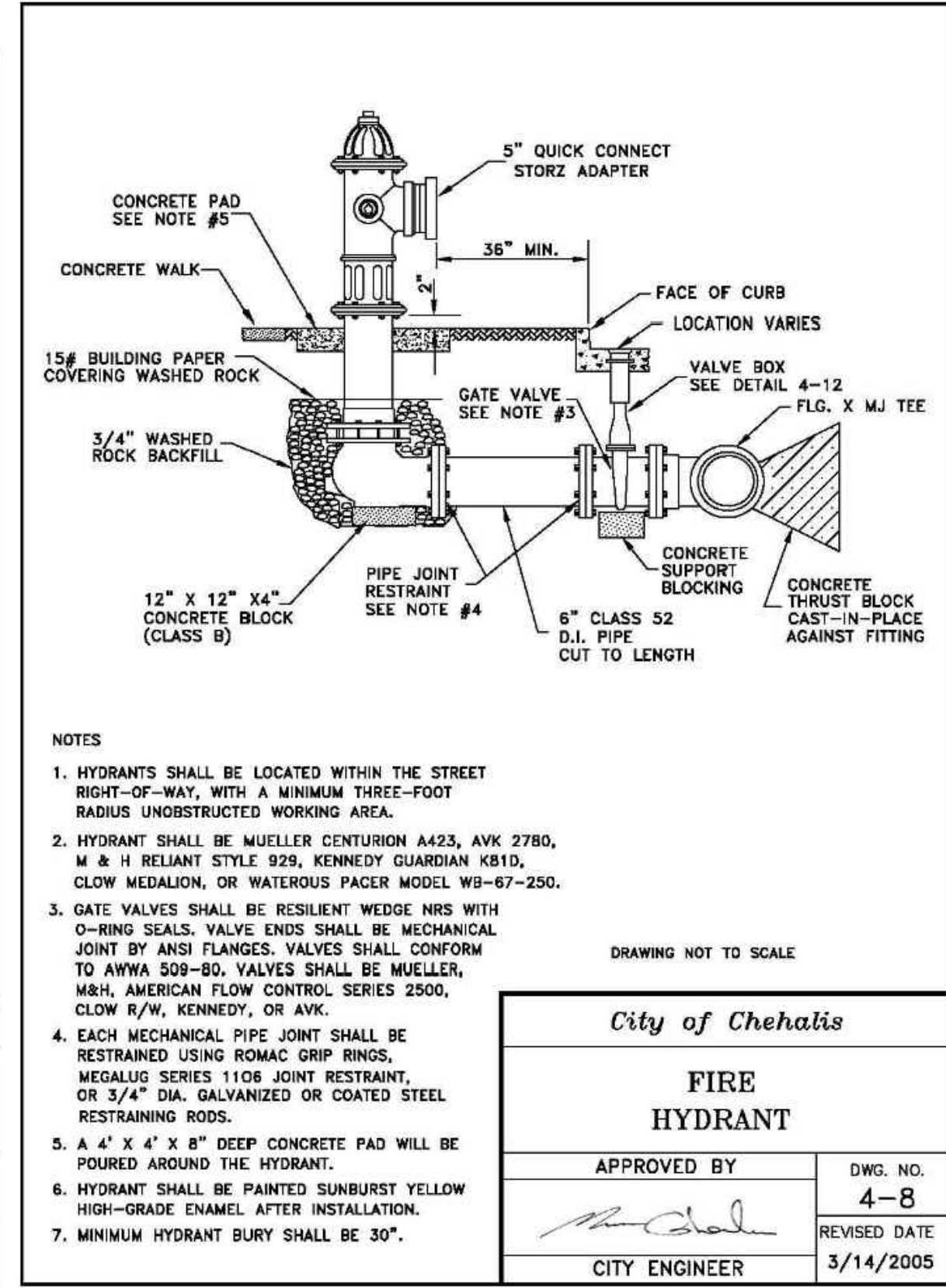
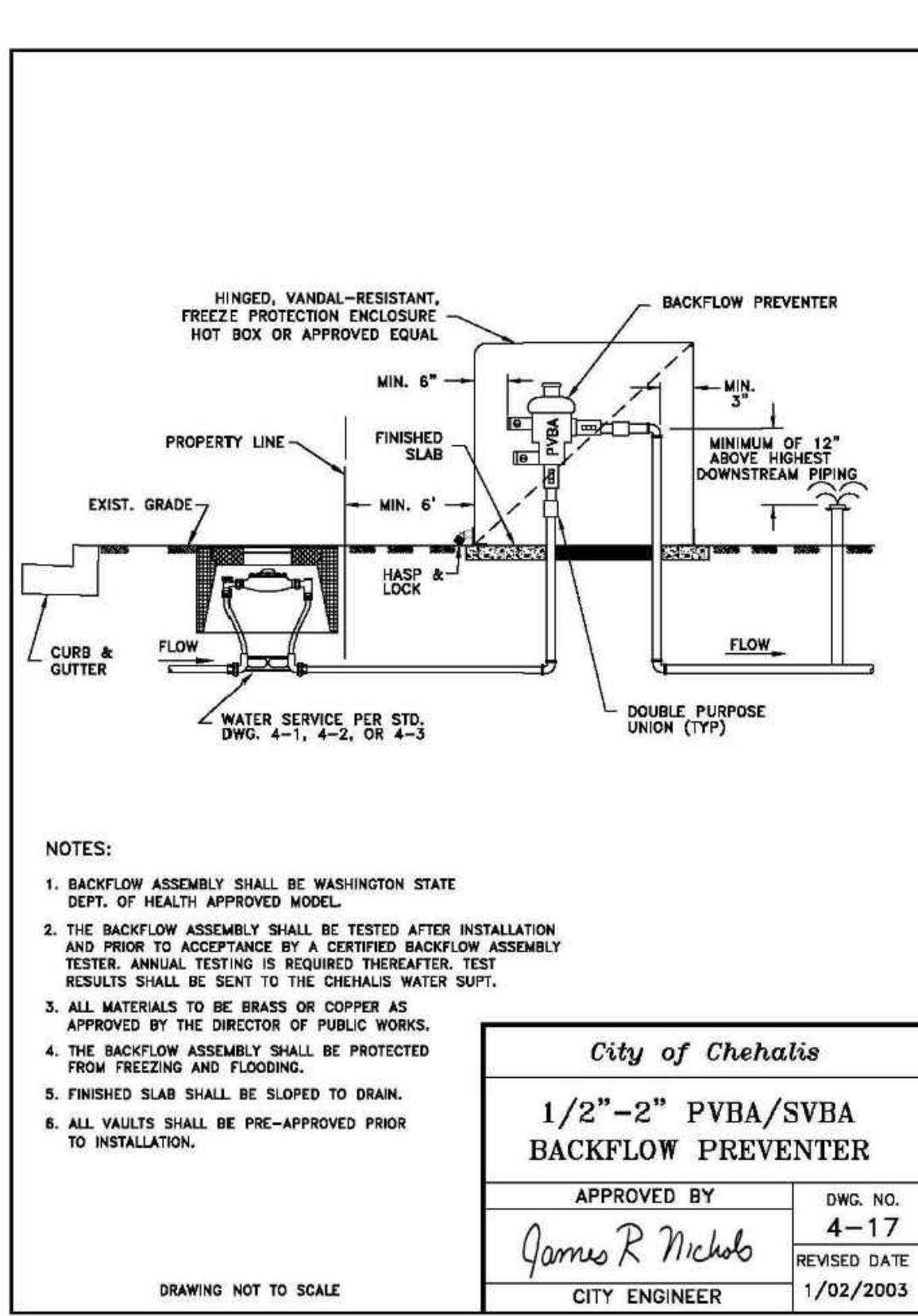
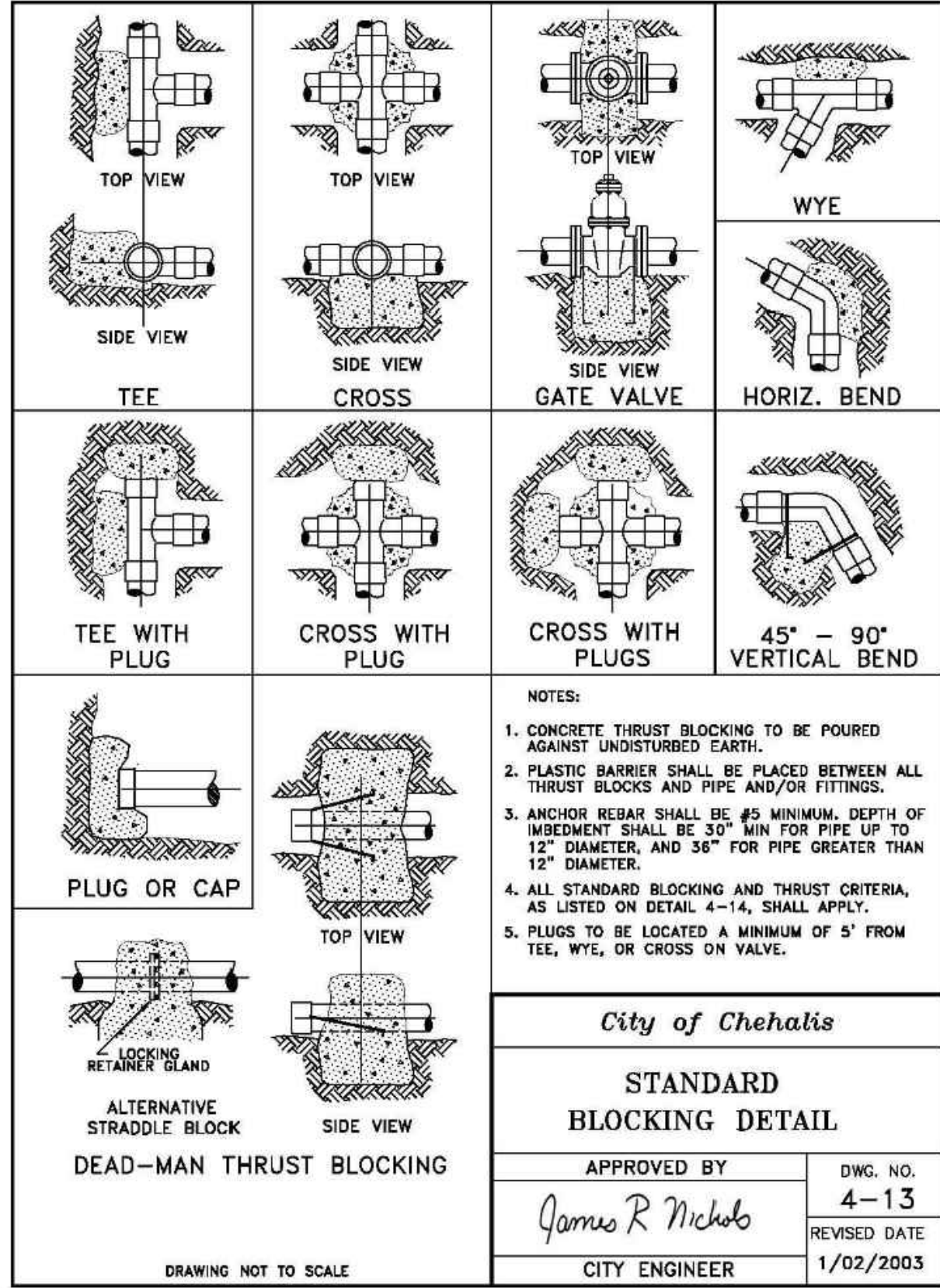
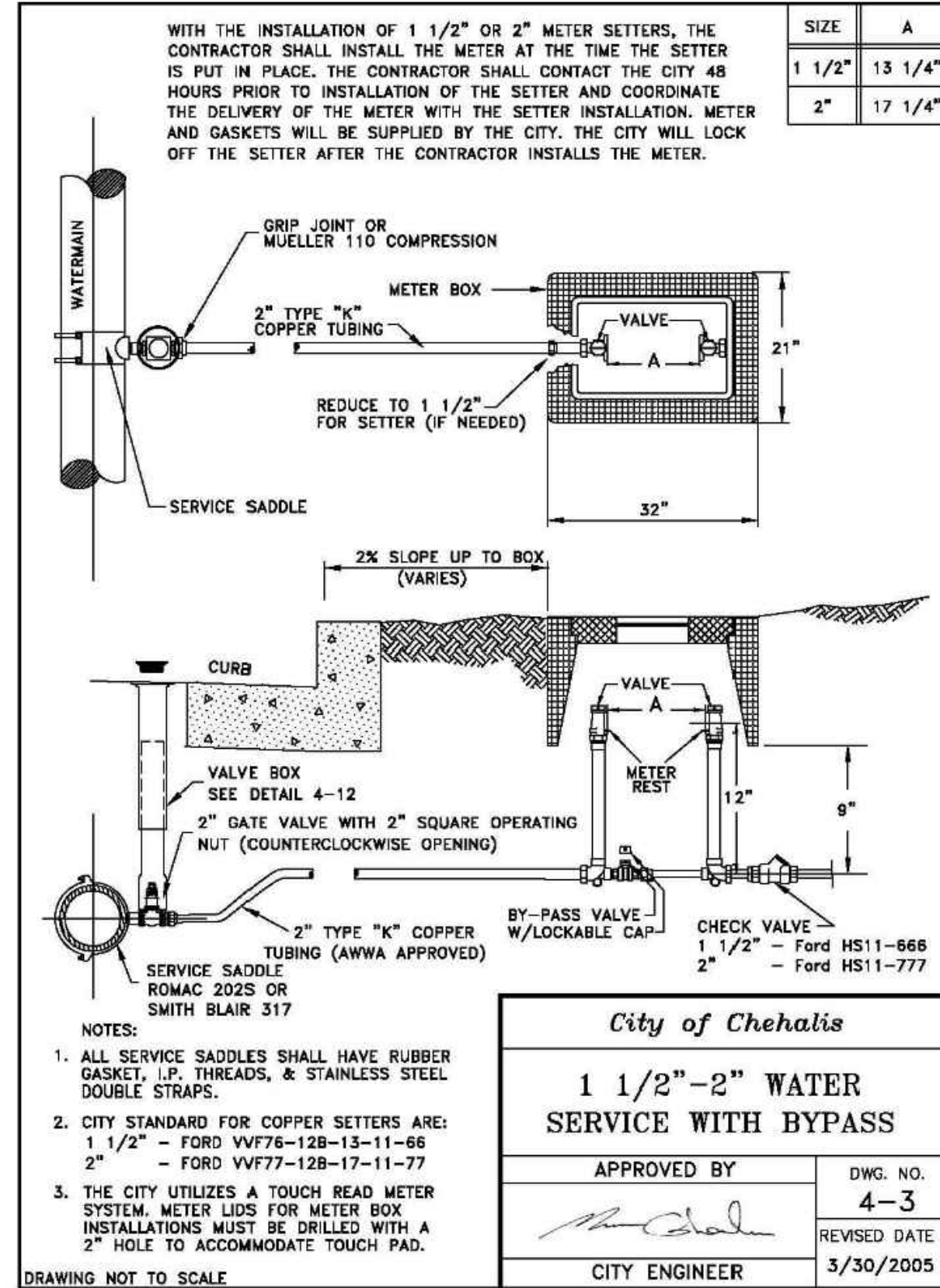
APPROVED FOR CONSTRUCTION	
APPROVED BY	PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT
DATE	
APPROVAL EXPIRES	

Revision: _____
 No. _____ Date _____ By _____ Ckd. _____ Appr. _____
CONSTRUCTION NOTES AND DETAILS FOR CHEHALIS INDUSTRIAL PARK
CRG REAL ESTATE SOLUTIONS 35 E. WACKER DRIVE CHICAGO, ILLINOIS 60601
 For:
 Scale: Horizontal 1"=40', Vertical N/A
 Designed: SZG, Drawn: SZG, Checked: BHE, Approved: BHE, Date: 7/27/22
Barghausen Consulting Engineers, Inc.
 18215 72nd Avenue South
 Kent, WA 98032
 425.251.6222 barghausen.com
 Job Number: 22323, Sheet: C8 of 13
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CHEHALIS INDUSTRIAL PARK

PORTIONS OF THE N.W. 1/4 AND THE S.W. 1/4 OF SEC. 11, TWN. 13 N., RG. 2 W., W.M.
LEWIS COUNTY, WASHINGTON

CONSTRUCTION NOTES AND DETAILS



APPROVED FOR CONSTRUCTION

APPROVED BY: _____
PUBLIC WORKS DEPARTMENT OR DESIGNATED CONSULTANT

DATE: _____

APPROVAL EXPIRES: _____

Revision: _____
No. _____ Date _____ By: _____ Cld. _____ Appr. _____

Title: CONSTRUCTION NOTES AND DETAILS FOR CHEHALIS INDUSTRIAL PARK

For: CRG REAL ESTATE SOLUTIONS
35 E. WACKER DRIVE
CHICAGO, ILLINOIS 60601

Scale: Horizontal 1"=40'
Vertical N/A

Designed: *SGZ*
Drawn: *SGZ*
Checked: *BHE*
Approved: *BHE*
Date: 7/27/22

Barghausen Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number: 22323
Sheet: C9 of 13
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