

LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED
W	W	O _D	●
SS	SS	O _{CO}	●
FM	FM	O _S	●
SD	SD	O _{CO}	●
RD	RD	O _P	■
FD	FD	O _A	→
G	G	O _T	■
UGP	UGP	O _B	■
T	T	O _B	●
TV	TV	O _F	●
---	---	O _G	X
---	---	O _T	▲
---	---	O _W	■
---	---	O _C	J
---	---	O _{CB}	■
---	---		

ABBREVIATIONS

AC	ASPHALT CONCRETE	LF	LINEAL FEET
BF	BAYFILTER	MH	MANHOLE
BLDG	BUILDING	MJ	MECHANICAL JOINT
BM	BENCH MARK	PL	PROPERTY LINE
CB	CATCH BASIN	POB	POINT OF BEGINNING
CIP	CAST IRON PIPE	POC	POINT OF CONNECTION
CL	CENTERLINE	PVC	POLY-VINYL CHLORIDE
CMP	CORRUGATED METAL PIPE	R	RADIUS
CPP	CORRUGATED POLY PIPE	RCP	REINFORCED CONCRETE PIPE
CO	CLEANOUT	R/W	RIGHT OF WAY
CATV	CABLE TELEVISION	RD	ROOF DRAIN
*	DEGREE	SS	SANITARY SEWER
Ø	DIAMETER	SD	STORM SEWER
DIP	DUCTILE IRON PIPE	STA	STATION
EOP/EP	EDGE OF PAVEMENT	DTL	STANDARD DETAIL
EL	ELEVATION	T	TELEPHONE
EX	EXISTING	TB	THRUST BLOCK
FF	FINISH FLOOR	TC	TOP OF CURB
FG	FINISH GRADE	TC	TOP OF CONCRETE
FDC	FIRE DEPARTMENT CONNECTION	TW	TOP OF RETAINING WALL
FH	FIRE HYDRANT	TYP	TYPICAL
FL	FLOWLINE/FLANGE	UGP	UNDERGROUND POWER
G	GAS	W	WATER
GM	GAS METER	WM	WATER METER
GB	GRADE BREAK	WV	WATER VALVE
HP	HIGH POINT	±	APPROXIMATELY
L	LENGTH	%	PERCENT

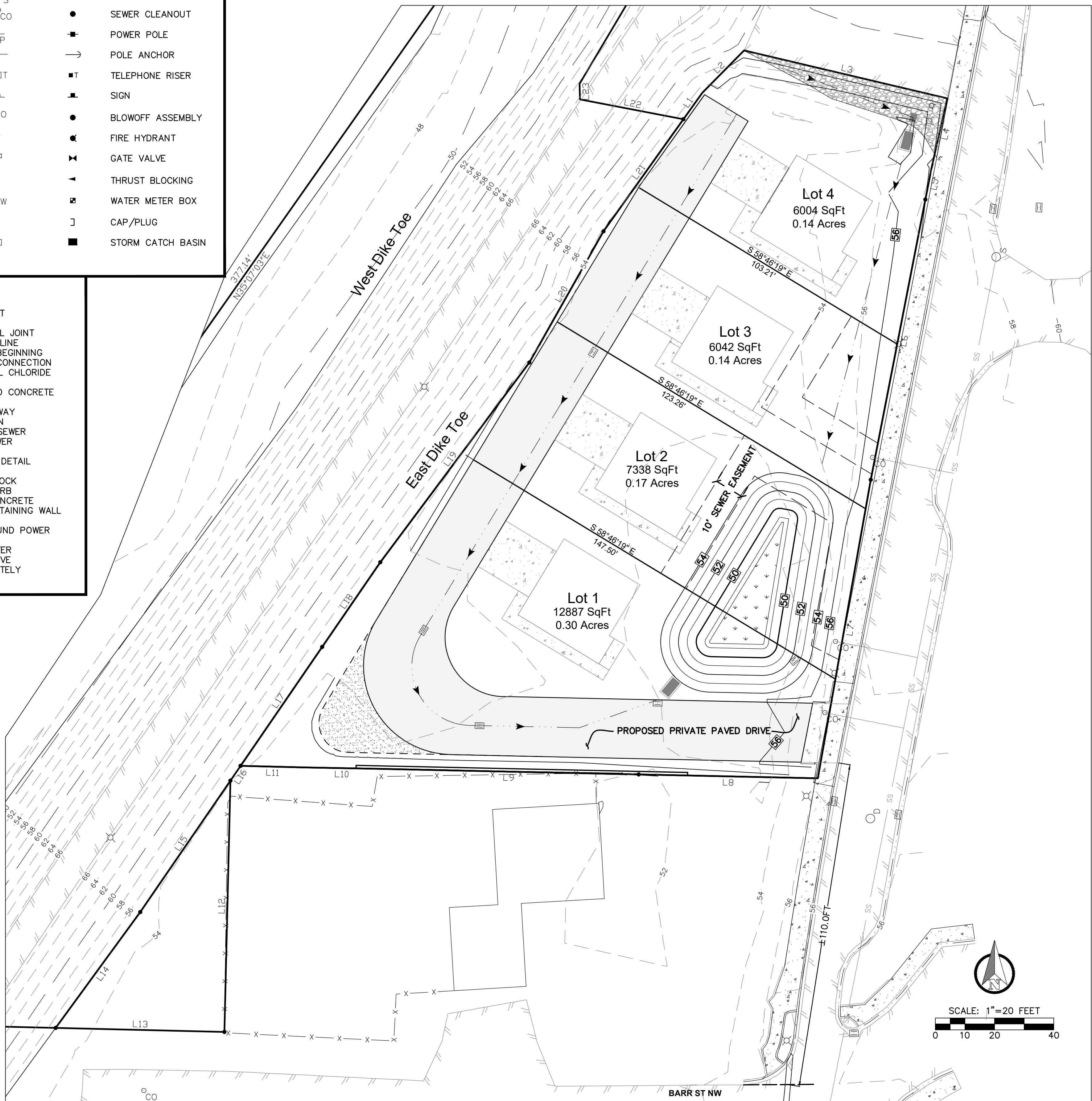
PARCEL LINE TABLE

LINE #	LENGTH (FT)	BEARING
L1	10.99	S35° 29' 29.63"W
L2	20.09	S44° 40' 45.83"W
L3	70.49	N76° 43' 01.99"W
L4	23.73	N12° 44' 11.58"E
L5	11.24	N11° 00' 28.69"E
L6	96.45	N11° 02' 00.00"E
L7	102.45	N10° 02' 50.09"E
L8	60.53	S88° 45' 48.00"E
L9	87.80	S88° 45' 48.00"E
L10	25.00	S88° 52' 44.35"E
L11	21.69	S88° 37' 48.13"E
L12	84.92	N1° 22' 11.87"E
L13	57.01	S88° 37' 48.13"E
L14	48.46	S36° 07' 36.16"W
L15	53.83	S34° 27' 01.70"W
L16	6.06	S34° 27' 01.70"W
L17	46.74	S34° 27' 01.70"W
L19	84.19	S36° 43' 31.74"W
L20	50.93	S29° 26' 50.48"W
L21	46.49	S35° 29' 29.63"W
L22	35.58	S79° 07' 03.00"E
L23	5.26	S1° 20' 43.00"E

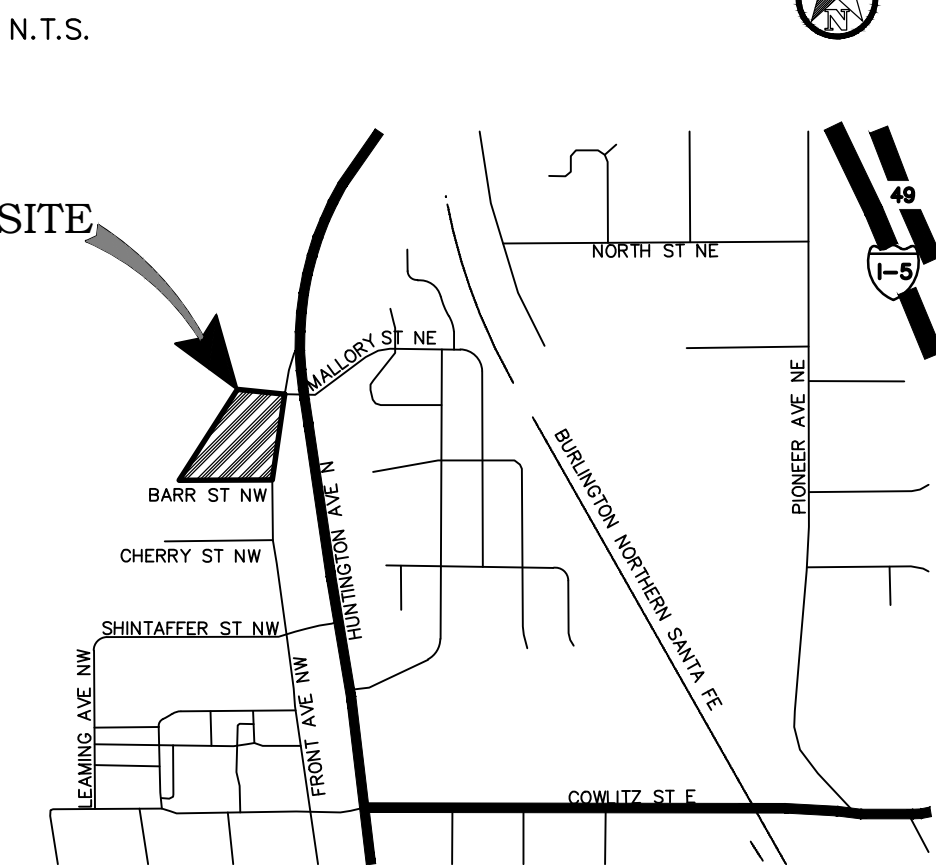
RIVERFRONT SHORT PLAT

SECTION 10, TOWNSHIP 9 NORTH, RANGE 2 WEST, W.M.

COWLITZ COUNTY, WASHINGTON



VICINITY MAP



PROJECT INFORMATION

APPLICANT:	MIKE VORSE M & C VORSE, LLC (360) 270-5371 MCVORSE@GMAIL.COM
ENGINEER:	ROBERT W. BALMELLI (360)740-8919 RB ENGINEERING P.O. BOX 923 CHEHALIS, WA 98532
PARCEL NOS:	30216
SITE ADDRESS:	441 FRONT AVENUE NW CASTLE ROCK, WA 98611-0098
ZONING:	R2 - HIGH-DENSITY RESIDENTIAL
SITE AREA: # OF LOTS:	1.95 ACRES (0.65 ACRES BUILDABLE) 8 TAX LOTS & VACATED RIGHT-OF-WAY
GRADING:	±260 CY CUT ±1000 CY FILL
SOILS:	102 - KELSO SILT LOAM 141 - NEWBERG FINE SANDY LOAM

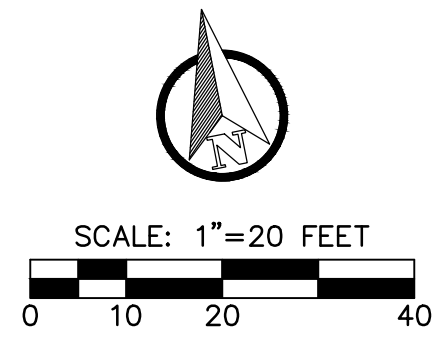
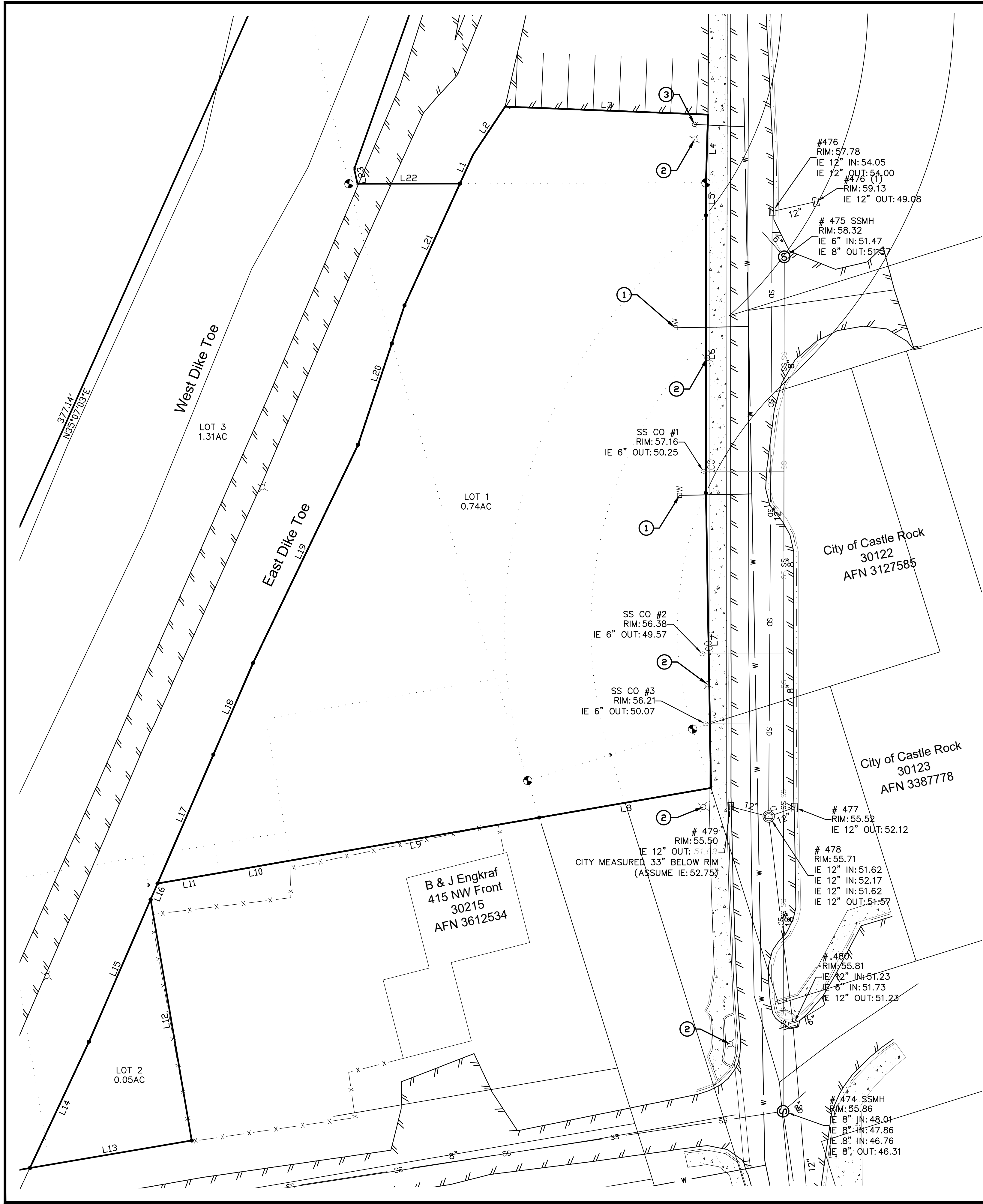
SHEET INDEX

C0.1 - CIVIL COVER & LAYOUT
C0.2 - EXISTING SITE PLAN
C1.1 - HORIZONTAL CONTROL PLAN
C1.2 - HORIZONTAL CONTROL DETAILS & NOTES
C2.1 - GRADING & DRAINAGE PLAN, DETAILS & NOTES
C2.2 - DRAINAGE DETAILS & NOTES
C3.1 - SEWER & WATER SERVICE PLAN
C3.2 - SEWER & WATER SERVICE DETAILS & NOTES
C4.1 - TEMPORARY EROSION & SEDIMENT CONTROL PLAN, DETAILS & NOTES

SURVEY INFORMATION

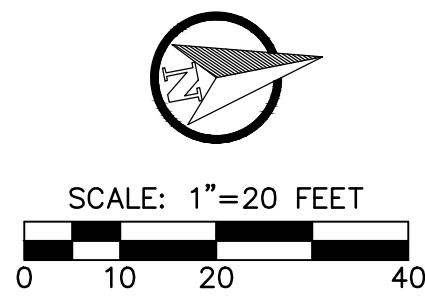
LEGAL DESCRIPTION
PARCEL 30216 KNOWN AS 441 NW FRONT ST, CASTLE ROCK, WA BEING IN PORTIONS OF THE SE 1/4 OF THE NE 1/4 & THE NE 1/4 OF THE SE 1/4 OF SECTION 10 TOWNSHIP 9 NORTH, RANGE 2 WEST W.M. & PORTIONS OF THE PLAT OF CIVIC CENTRE ADDITION TO CASTLE ROCK & CONGERS ADDITION TO CASTLE ROCK
VERTICAL DATUM
NAVD88
BASIS OF BEARING
RECORD OF SURVEY FILED IN VOL. 31, PAGE 69 UNDER AFN 3412715
SURVEYOR
ALAN G. GRANT (360)274-6842
GRANT & ASSOCIATES SURVEYING L.L.C. P.O. BOX 878 CASTLE ROCK, WA 98611

REVISION	NO.	DATE	DESIGNED BY: ARP	DRAWN BY: ARP	CHECKED BY: RWB	DATE: 09/02/2025	SCALE: 1" = 20'
RIVERFRONT SHORT PLAT							WA.
CIVIL COVER & LAYOUT							
DESIGN → PERMIT → MANAGE							
P.O. Box 923 CHEHALIS, WA 98532							
OFF: (360) 740-8919 EMAIL: CntrPro@RBEngineers.com							
811 Know what's below. Call 811 before you dig.							
JOB NUMBER 20056							
DRAWING NAME 20056_C0.1_COVR							
C0.1							
1 OF 9							



- EXISTING SITE CONDITION NOTES:
- 1 EXISTING WATER METER
 - 2 EXISTING LIGHTPOLE
 - 3 EXISTING FIRE HYDRANT

REVISION	
NO.	DATE
DESIGNED BY: ARP	
DRAWN BY: ARP	
CHECKED BY: RWB	
DATE: 09/02/2025	
SCALE: 1" = 20'	
RIVERFRONT SHORT PLAT	
CITY OF CASTLE ROCK WA.	
EXISTING SITE PLAN	
	
RB Engineering DESIGN → PERMIT → MANAGE P.O. Box 923 CHEHALIS, WA 98532 OFF: (360) 740-8919 EMAIL: info@rbengineering.com	
811 Know what's below. Call 811 before you dig.	
JOB NUMBER 20056	
DRAWING NAME 20056_CO.2_ESPL	
C0.2 2 OF 9	



HORIZONTAL CONTROL NOTES:

- 1 BUILDING FOUNDATION CORNERS TO BE STAKED BY WASHINGTON STATE LICENSED LAND SURVEYING.
- 2 INSTALL ROCKERY WALL PER PLAN AND DETAIL ON SHEET C1.2.
- 3 CONSTRUCT CEMENT CONCRETE DRIVEWAY TYPE 1 PER PLAN AND DETAIL SHEET C1.2.
- 4 INSTALL LANDSCAPE STONE AS PARKING LOT RUNOFF DISSIPATER. EXTEND STONE AREA THROUGH SWALE AND AROUND PROPOSED CATCH BASIN AS SHOWN.
- 5 FUTURE BLDG. AND CONCRETE SIDEWALK FOR FRONT DOOR ACCESS TO BE CONSTRUCTED DURING PHASE 2
- 6 INSTALL BENCHMARKS PER PLAN AND DETAIL ON SHEET C1.2.
- 7 REMOVE ± 55 LF EXISTING CONCRETE DRIVEWAY AND REPLACE WITH FULL DEPTH CONCRETE CURB & GUTTER, AND SIDEWALK PER CITY DETAILS ON SHEET C1.2. MATCH EXISTING SIDEWALK ELEVATIONS AND WIDTHS.

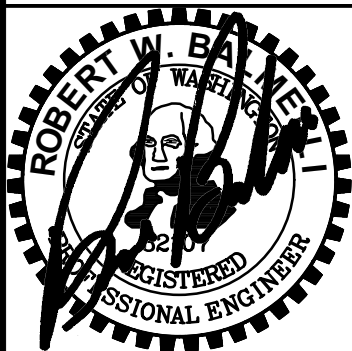
ALL NEW SIDEWALKS SHALL NOT EXCEED 2% SIDE SLOPE AND ADA PARKING STALLS AND RAMP LANDINGS SHALL NOT EXCEED 2 PERCENT SLOPE IN ALL DIRECTIONS. ALL ADA ACCESSIBLE ROUTES IDENTIFIED ON THE PLANS SHALL NOT EXCEED 5% LONGITUDINAL GRADE. ALL ADA RAMPS SHALL NOT EXCEED 8% GRADE AND 2% CROSS SLOPE. CONTRACTOR IS RESPONSIBLE TO CHECK GRADES PRIOR TO CONCRETE AND PAVING WORK. ANY GRADES EXCEEDING THE ABOVE LIMITS WILL BE REQUIRED TO BE CORRECTED AT THE SOLE EXPENSE OF THE CONTRACTOR.

CONTRACTOR SHALL CALL RB ENGINEERING 48 HOUR
PRIOR TO POURING CONCRETE CURB FOR INSPECTION.

RIVERFRONT SHORT PLAT

CITY OF CASTLE ROCK WA.

HORIZONTAL CONTROL PLAN



RB Engineering
DESIGN → PERMIT → MANAGE

P.O. Box 923
CHEHAUS, WA 98532

OFF: (360) 740-8819
EMAIL: CWP768@RBEngineers.com

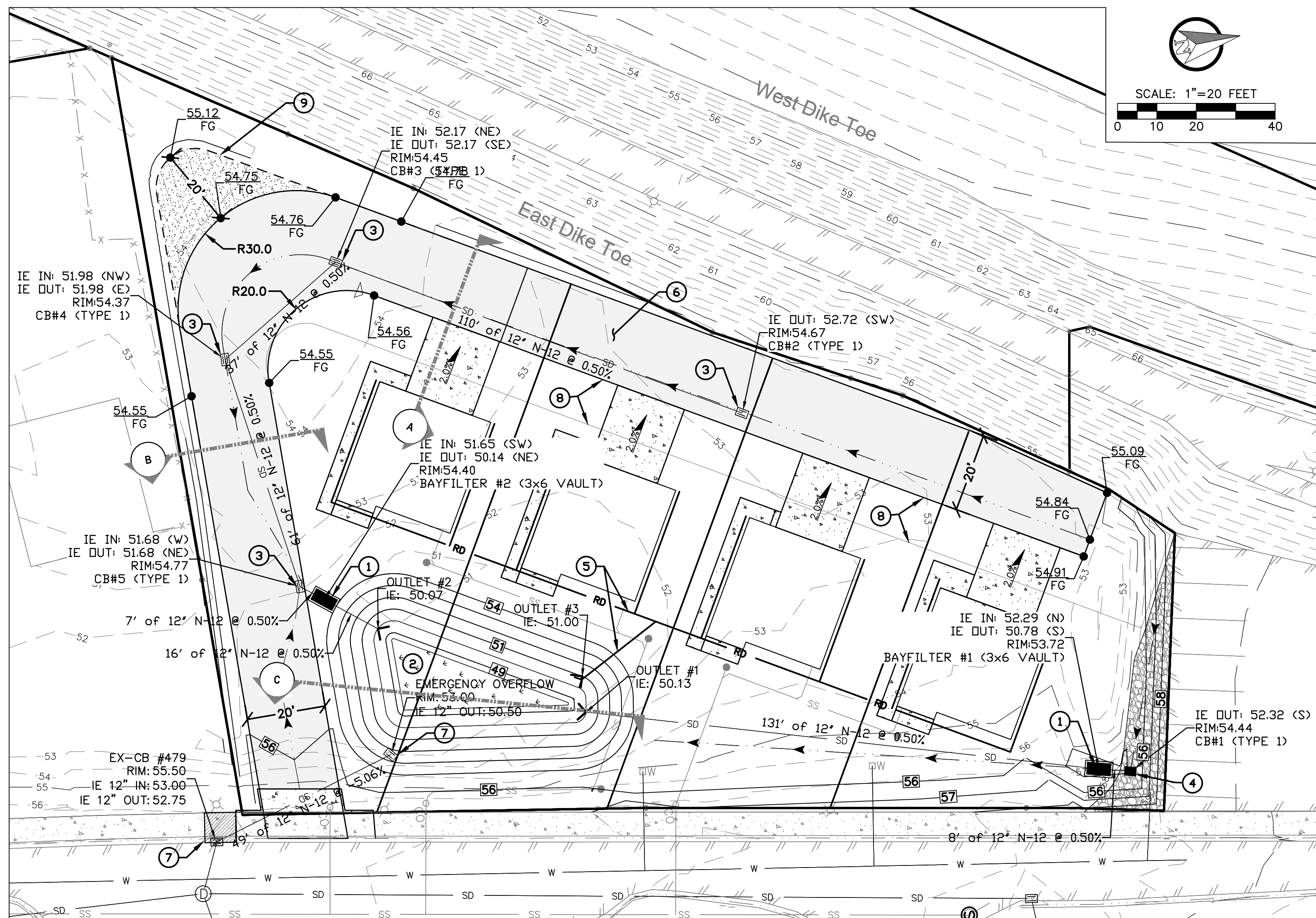


TYPICAL ROAD SECTIONS
N.T.S.

RB ENGINEERING



RB ENGINEERING

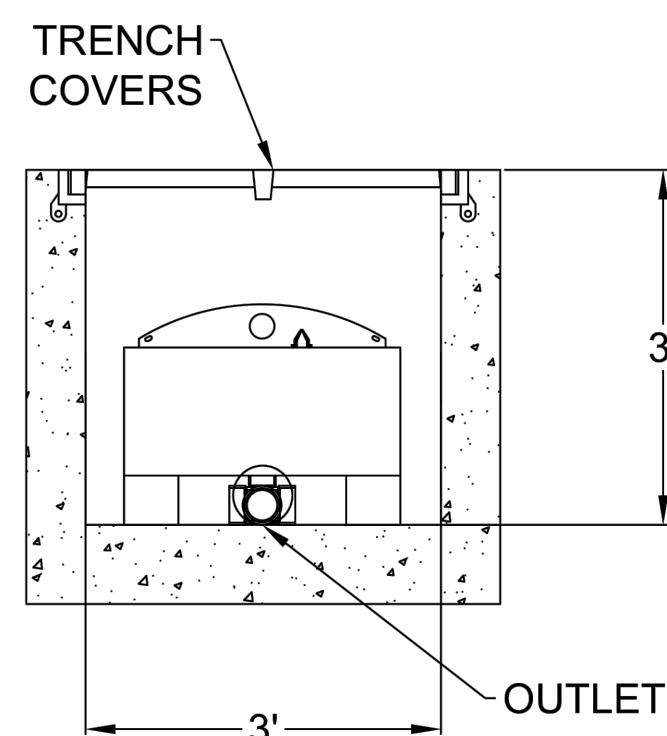
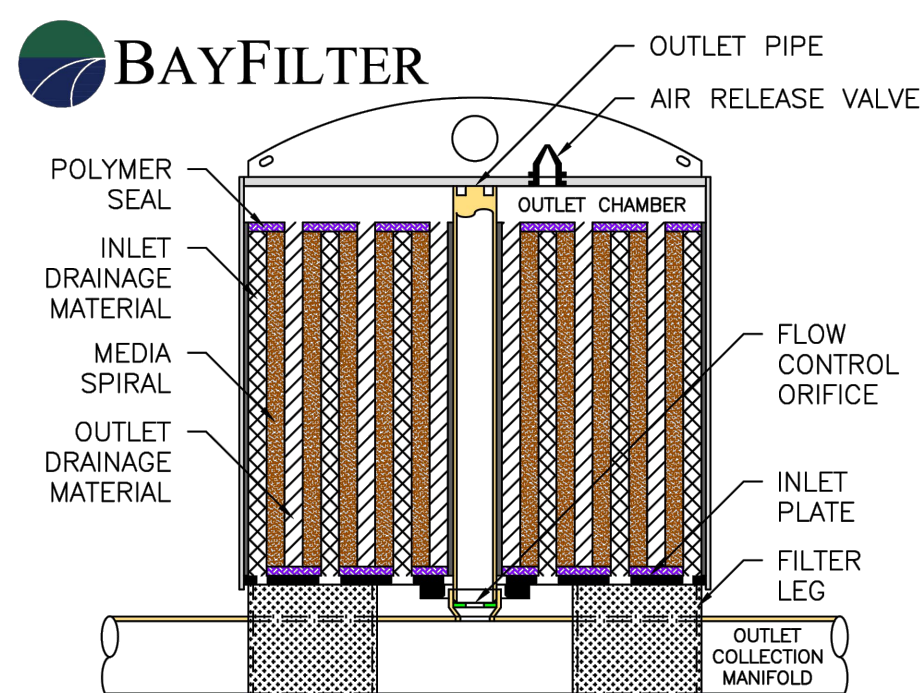
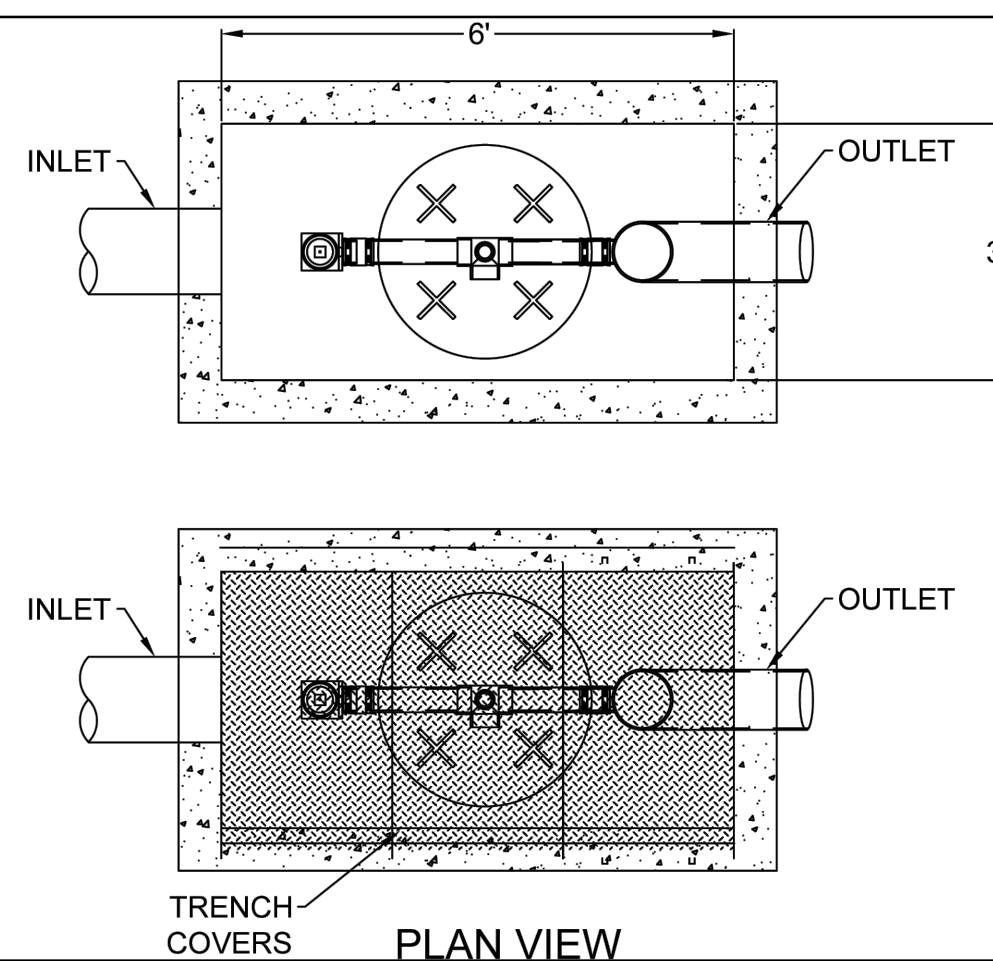


GRADING AND DRAINAGE CONSTRUCTION NOTES:

- 1 INSTALL BAYFILTER TREATMENT SYSTEM BF-3-6-1 WITH ONE 522 CARTRIDGE PER PLAN AND DETAIL ON THIS SHEET.
- 2 INFILTRATION POND CONSTRUCTED PER PLAN AND SECTION THIS SHEET.
BOTTOM AREA = 400 SF MIN.
WITH 3:1 SIDE SLOPES
- 3 NEW TYPE 1 CATCH BASINS INSTALLED PER PLAN AND DETAILS ON SHEET C2.2.
- 4 NEW TYPE 1 CATCH BASIN INSTALLED WITH 90° DOWNTURN ELBOW TO TRAP OILS PER PLAN AND DETAILS ON SHEET C2.2.
- 5 INSTALL 8-INCH SDR 35 PVC @ 1.0% SLOPE MIN. DOWNSPOUT/ROOF DRAIN CONVEYANCE SYSTEM. CONNECT BUILDING FOUNDATION DRAINS TO THE CONVEYANCE LINE AND OUTLET CONVEYANCE LINE DIRECTLY TO INFILTRATION POND. SEE DETAILS SHEET C2.2.
- 6 CONSTRUCT NEW ASPHALT DRIVEWAY WITH INVERTED CROWN PER GRADES AND CROSS-SECTION THIS SHEET. SEE TYPICAL PAVEMENT DETAIL ON SHEET C1.2.
- 7 INSTALL REVERSE FLOW PIPE AND EMERGENCY OVERFLOW STRUCTURE PER PLAN AND DETAIL ON SHEET C2.2. RESTORE ± 5 LF SIDEWALK, CURB & GUTTER AND STREET.
- 8 EXISTING PAVEMENT LIMITS TO BE REDUCED AS SHOWN PER PLAN AND DETAIL.
- 9 PROVIDE WIDENED GRAVEL TURNAROUND PER PLAN.

GENERAL STORM DRAIN CONSTRUCTION NOTES:

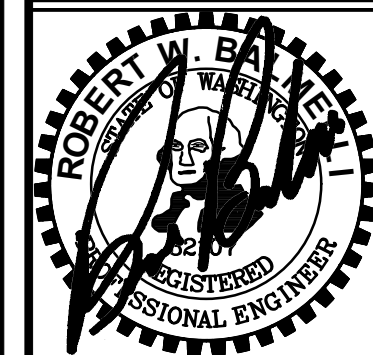
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT).
2. TEMPORARY EROSION/WATER POLLUTION MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH SECTION 1-07.15 OF THE STANDARD SPECIFICATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL OTHER PERMITS AND OTHER REQUIREMENTS BY THE CITY OR OTHER GOVERNING AUTHORITY OR AGENCY AS MAY BE APPLICABLE.
4. A PRECONSTRUCTION MEETING SHALL BE HELD WITH THE CITY PRIOR TO THE START OF CONSTRUCTION.
5. ALL STORM MAINS AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK, AND CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO DO SO.
6. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLAN(S) AS REQUIRED IN ACCORDANCE WITH MUTCD.
7. CALL UNDERGROUND LOCATE LINE AT 811 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATIONS.
8. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS," CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.

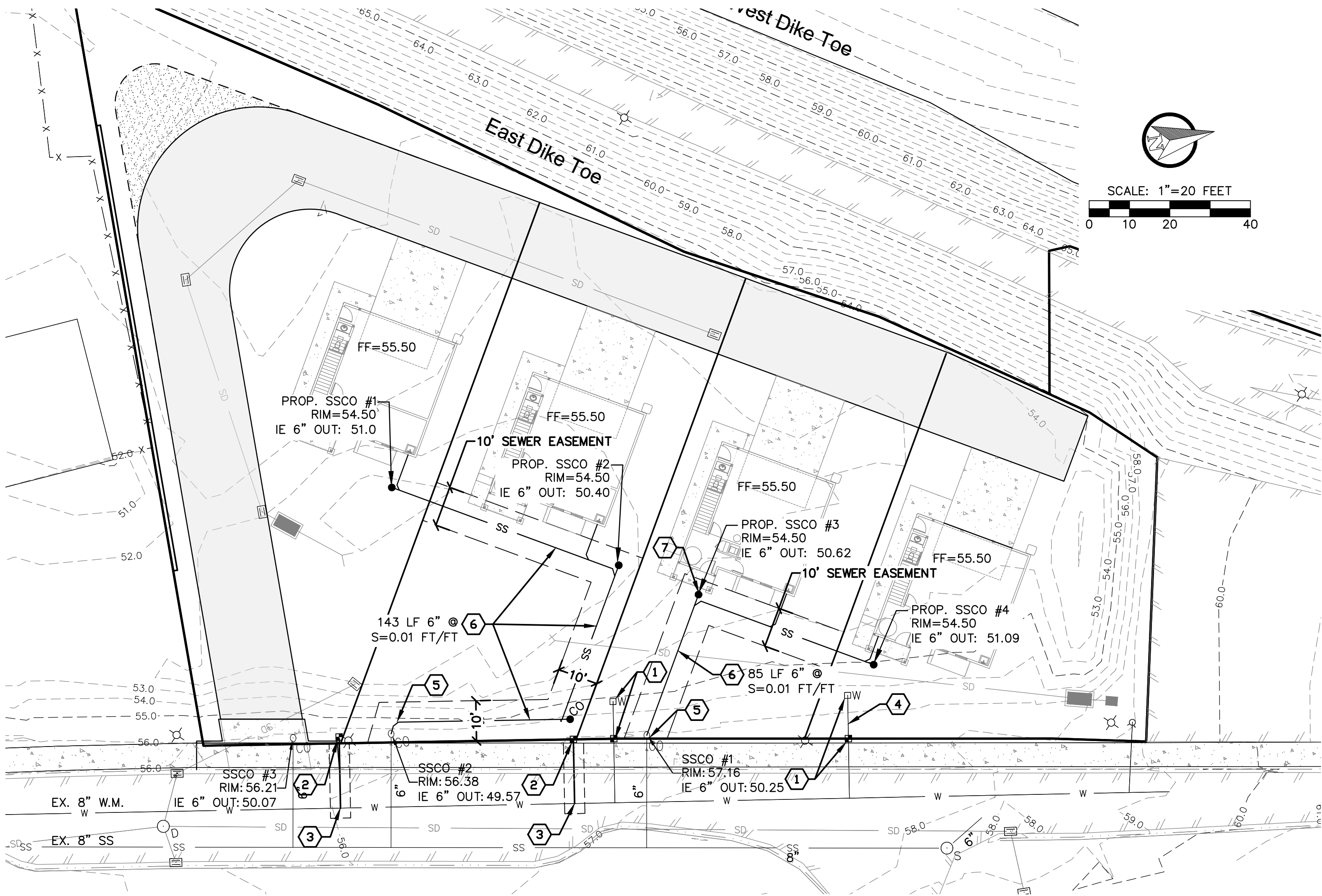


SECTION VIEW

BAYFILTER 522 3-6-1 VAULT	
PROJECT	RBE# 20056
LOCATION	SEE PLAN
WATER QUALITY FLOW	0.05 CFS
DRAINAGE AREA	VARIES
CARTRIDGE DESIGN FLOW RATE	22.5 GPM
# BAYFILTER CARTRIDGES	1
TREATED SEDIMENT CAPACITY	175 LBS

THE BAYFILTER STORMWATER MANAGEMENT SYSTEM IS A STORMWATER FILTRATION DEVICE DESIGNED TO REMOVE FINE SEDIMENTS, HEAVY METALS, AND POLYCYCLIC AROMATIC HYDROCARBONS (PAH'S) ON A SPIRAL WOUND MEDIA FILTER CARTRIDGE WITH APPROXIMATELY 45 SQUARE FEET OF FILTRATION AREA. THE FILTER CARTRIDGES ARE HOUSE IN A CONCRETE STRUCTURE THAT EVENLY DISTRIBUTES THE FLOW BETWEEN CARTRIDGES. THE SYSTEM IS OFFLINE WITH AN INTERNAL STANDPIPE BYPASS THAT ROUTES HIGH INTENSITY STORMS THROUGH THE SYSTEM. THE FILTER CARTRIDGES REMOVE POLLUTANTS FROM RUNOFF BY FILTRATION (INTERCEPTION/ATTACHMENT) AND ADSORPTION.





- WATER AND SEWER CONSTRUCTION NOTES:
- 1. CONTRACTOR TO MAKE CONNECTION TO EXISTING WATER METER STUB. PULL BACK EXISTING METERS TO RIGHT-OF-WAY.
 - 2. PROVIDE AND INSTALL NEW 3/4-INCH WATER METER SETTERS. SEE DETAIL ON SHEET C3.2.
 - 3. CONTRACTOR TO MAKE CONNECTION TO EXISTING WATER MAIN VIA LIVE TAP. SEE STD. DETAIL ON SHEET C3.2. SAWCUT AND RESTORE EXISTING CONCRETE SIDEWALK AND STREET SECTION PER DETAIL ON SHEET C3.2.
 - 4. CONTRACTOR TO COORDINATE WITH BUILDING PLUMBER FOR LOCATION AND INSTALLATION OF NEW 3/4-INCH DIAMETER POLYETHYLENE CLASS 200 SERVICE LINE WATER SERVICE LINE INTO BUILDING.
 - 5. CONNECT TO EXISTING SANITARY SEWER CLEANOUT STUBS. CONTRACTOR SHALL VERIFY BOTH STUBOUT INVERT ELEVATIONS.
 - 6. PROVIDE AND INSTALL NEW 6-INCH SDR 35 PVC SEWER PIPE LATERAL PER PLAN. CONTRACTOR TO VERIFY SEWER LATERAL LOCATION AND DEPTH PRIOR TO INSTALLATION. CONNECT EACH INDIVIDUAL UNIT TO LATERAL INCLUDE CLEAN-OUT OUTSIDE OF BUILDING. SEE PLAN AND DETAILS ON SHEET C3.2.
 - 7. INSTALL NEW SS CLEANOUT AT INDIVIDUAL BUILDING CONNECTIONS. CLEANOUT TO BE LOCATED 5' FROM BUILDING (TYP. OF 4)

SEWER NOTE:
CONTRACTOR SHALL **NOT** INSTALL ANY SEWER LINES UNTIL THEY VERIFY SEWER INVERT ELEVATIONS ON THE BUILDING PLUMBING PLANS AT THE BUILDING FOUNDATION PRIOR TO INSTALL OF ANY SEWER LINES. ANY DESCREPARNCIES SHALL BE RELAYED TO THE PROJECT ENGINEER AT RB ENGINEERING 360.740.8919.

GENERAL SANITARY SEWER CONSTRUCTION NOTES:

- 1. ALL WORKMANSHIP AND MATERIALS WILL BE IN ACCORDANCE WITH CITY OF CASTLE ROCK STANDARDS AND THE MOST CURRENT COPY OF THE STATE OF WASHINGTON STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (WSDOT/APWA).
- 2. CITY OF CASTLE ROCK HORIZONTAL DATUM, NAD83/2011 AND VERTICAL DATUM, NAVD88 WILL BE USED FOR ALL CONTROL. A LIST OF BENCHMARKS IS AVAILABLE FROM COWLITZ COUNTY.
- 3. ALL APPROVALS AND PERMITS REQUIRED BY THE CITY OF CASTLE ROCK WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 4. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR WILL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
- 5. A PRECONSTRUCTION MEETING WILL BE HELD WITH THE CITY OF CASTLE ROCK PRIOR TO THE START OF CONSTRUCTION. THE CITY OF CASTLE ROCK CONSTRUCTION INSPECTOR WILL BE NOTIFIED A MINIMUM OF 48 HOURS (TWO WORKING DAYS) IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. THE INSPECTOR WILL BE PRESENT AT THE TIME OF THE TAP. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR WILL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 811 A MINIMUM OF 48 HOURS (TWO WORKING DAYS) PRIOR TO ANY EXCAVATION.
- 6. ALL SEWER MAINS WILL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 7. ALL PIPE AND SERVICES WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12" TO 18" UNDER THE PROPOSED FINISHED SUBGRADE. THE MARKER WILL BE 3 INCHES WIDE, PLASTIC NONBIODEGRADABLE, METAL CORE OR BACKING MARKED SEWER THAT CAN BE DETECTED BY A STANDARD METAL DETECTOR. THE TRACER TAPE SHALL INDICATE, "CAUTION BURIED SEWER LINE" OR SIMILAR AND BE GREEN IN COLOR. TRACER TAPE WILL BE TERRA TAPE "D" OR APPROVED EQUAL. THE TAPE AND WIRE WILL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- 8. ALL SEWER PIPE AND LATERALS SHALL INCLUDE TRACER WIRE. THE TRACER WIRE FOR SEWER LATERALS SHALL BE CONNECTED TO THE SEWER MAIN LINE TRACER WIRE. THE WIRE SHALL BE ATTACHED TO THE LINES AT 10-FOOT INTERVALS AND SHALL BE BROUGHT TO THE SURFACE AT ALL MANHOLES AND CLEANOUTS. TRACER WIRE MATERIAL SHALL BE RATED FOR UNDERGROUND FEEDER CABLE, 12 GAUGE, SOFT DRAWN, INSULATED 60 MIL PVC, RATED FOR 600V AND SHALL BE GREEN IN COLOR. JOINING ENDS OF TRACER WIRE FOR MAINS SHALL ONLY BE SPLICED UNDERGROUND AT EXISTING CONNECTIONS INTO EXISTING TRACER WIRE. CONNECTIONS AT MAIN BORE LOCATIONS, AND APPROVED LOCATION PER THE CITY. CONNECTIONS SHALL BE MADE WITH AN APPROVED DIRECT BURY WIRE NUT THAT IS RATED FOR UNDERGROUND INSTALLATION. AT LOCATIONS WHERE LOCATE MAIN WIRE IS TESTED AND FOUND TO BE DAMAGED AND INSTEAD OF REPLACING THE ENTIRE LOCATE WIRE UNDERGROUND, THE CONTRACTOR CAN REQUEST TO REPAIR LINE WITH A SPLICE UNDERGROUND. DIRECT BURY WIRE NUTS SHALL BE DRYCONN DIRECT BURY WIRE NUT MANUFACTURED BY KING INNOVATION, DBY-6 OR DBR-6 AS MANUFACTURED BY 3M, OR APPROVED EQUAL. JOINING TRACER WIRE FROM SIDE SERVICES, CLEANOUTS, OR OTHER SMALL BRANCHES TO MAIN; CONNECTIONS SHALL BE MADE WITH DIRECT BURY LUG DESIGNED TO NOT CUT THE METAL WIRE OF THE MAIN TRACER WIRE. THESE CONNECTIONS SHALL BE USED AT ALL SIDE SERVICE CONNECTIONS AND BRANCHES. DIRECT BURY LUG CONNECTIONS SHALL BE DRYCONN DIRECT BURY LUG AS MANUFACTURED BY KING INNOVATION, DRYCONN 3-WAY DIRECT BURY LUG AS MANUFACTURED BY COPPERHEAD, OR APPROVED EQUAL. BEDDING OF THE SEWER MAIN AND COMPACTION OF THE BACKFILL MATERIAL WILL BE REQUIRED IN ACCORDANCE WITH THE ABOVE MENTIONED SPECIFICATION (SEE GENERAL NOTE 1).
- 9. ALL MANHOLES OR CLEANOUTS OUTSIDE THE PAVED AREA WILL BE INSTALLED IN ACCORDANCE WITH STANDARD PLANS CRO03SS AND CRO06SS.
- 10. WHEN TEMPORARY STREET PATCHES ARE ALLOWED BY THE CITY, COLD MIX ASPHALT WILL BE PLACED AND COMPACTED TO A MAXIMUM DEPTH OF TWO INCHES. CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED BY THE CITY.
- 11. EROSION CONTROL MEASURES CONFORMING TO THE REQUIREMENTS OF THE CITY OF CASTLE ROCK & COWLITZ COUNTY WILL BE TAKEN BY THE CONTRACTOR DURING CONSTRUCTION TO PREVENT EROSION AND SILTATION OF EXISTING AND PROPOSED STORM DRAINAGE FACILITIES AND ROADWAYS.
- 12. PROVIDE TRAFFIC CONTROL PLAN(S) IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AS REQUIRED.
- 13. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON SITE AT ALL TIMES. ANY CHANGES TO THE DESIGN WILL FIRST BE REVIEWED AND APPROVED BY THE DEVELOPER'S PROJECT ENGINEER AND THE CITY OF CASTLE ROCK.
- 14. AFTER BACKFILLING, BUT PRIOR TO PAVING, ALL MAINS AND APPURTENANCES WILL BE TESTED, INSPECTED AND APPROVED BY THE CITY OF CASTLE ROCK CONSTRUCTION INSPECTOR. APPROVAL DOES NOT CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR WILL RETAIN THE RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGH THE DURATION OF THE WARRANTY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF CASTLE ROCK FOR THE REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION WILL BE REEXCAVATED FOR INSPECTION.

REVISION

NO.

DATE

DESIGNED BY: ARP

DRAWN BY: ARP

CHECKED BY: RWB

DATE: 09/02/2025

SCALE: 1" = 20'

RIVERFRONT SHORT PLAT

CITY OF CASTLE ROCK

WA.

SEWER & WATER
SERVICE PLAN,
DETAILS & NOTES

Robert W. Bahr
Professional Engineer
License No. 12345
State of Washington
Mechanical Engineering

RB Engineering
DESIGN → PERMIT → MANAGE

P.O. Box 923
CHEHALIS, WA 98532

OFF: (360) 740-8919
EMAIL: info@rbengineers.com

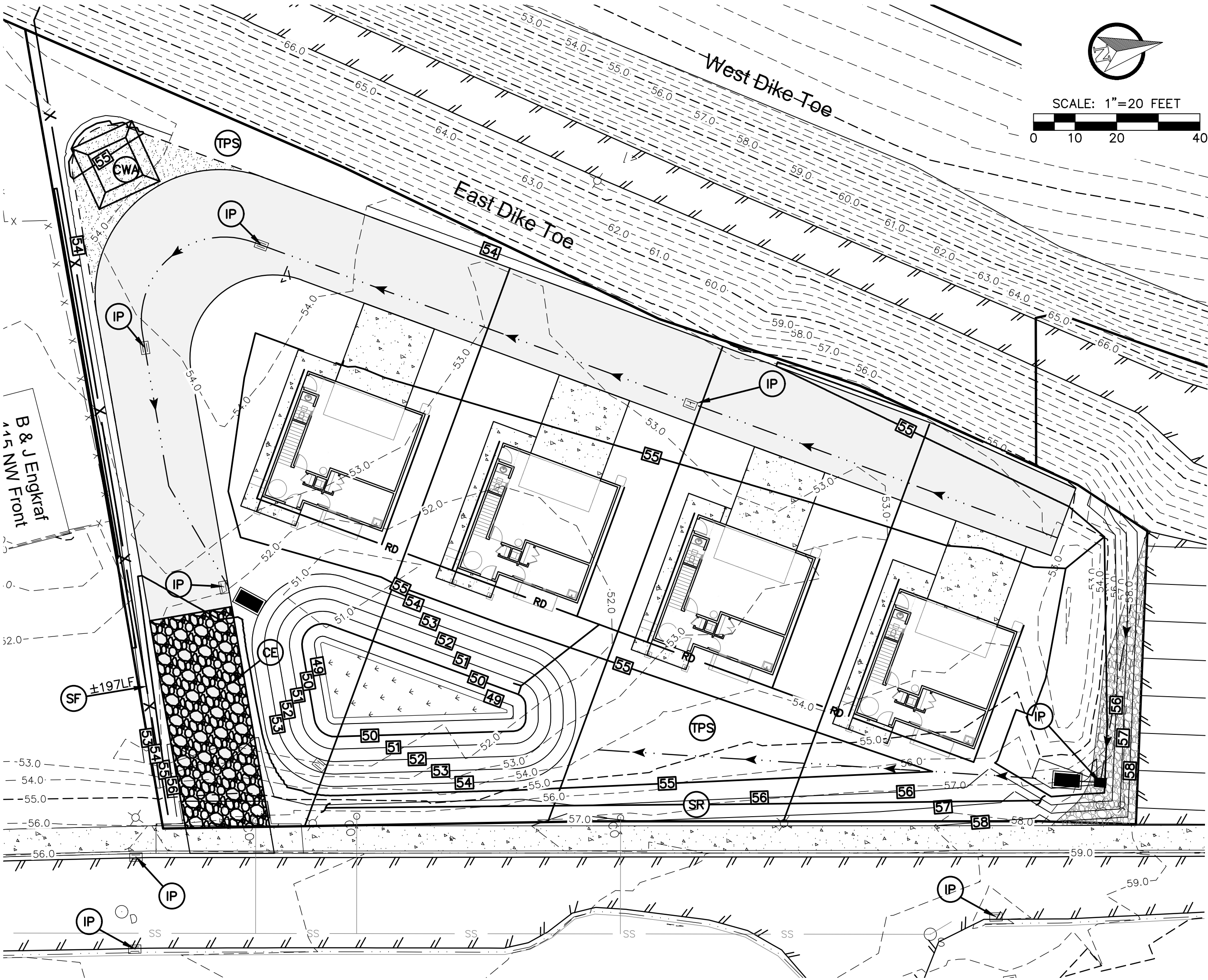
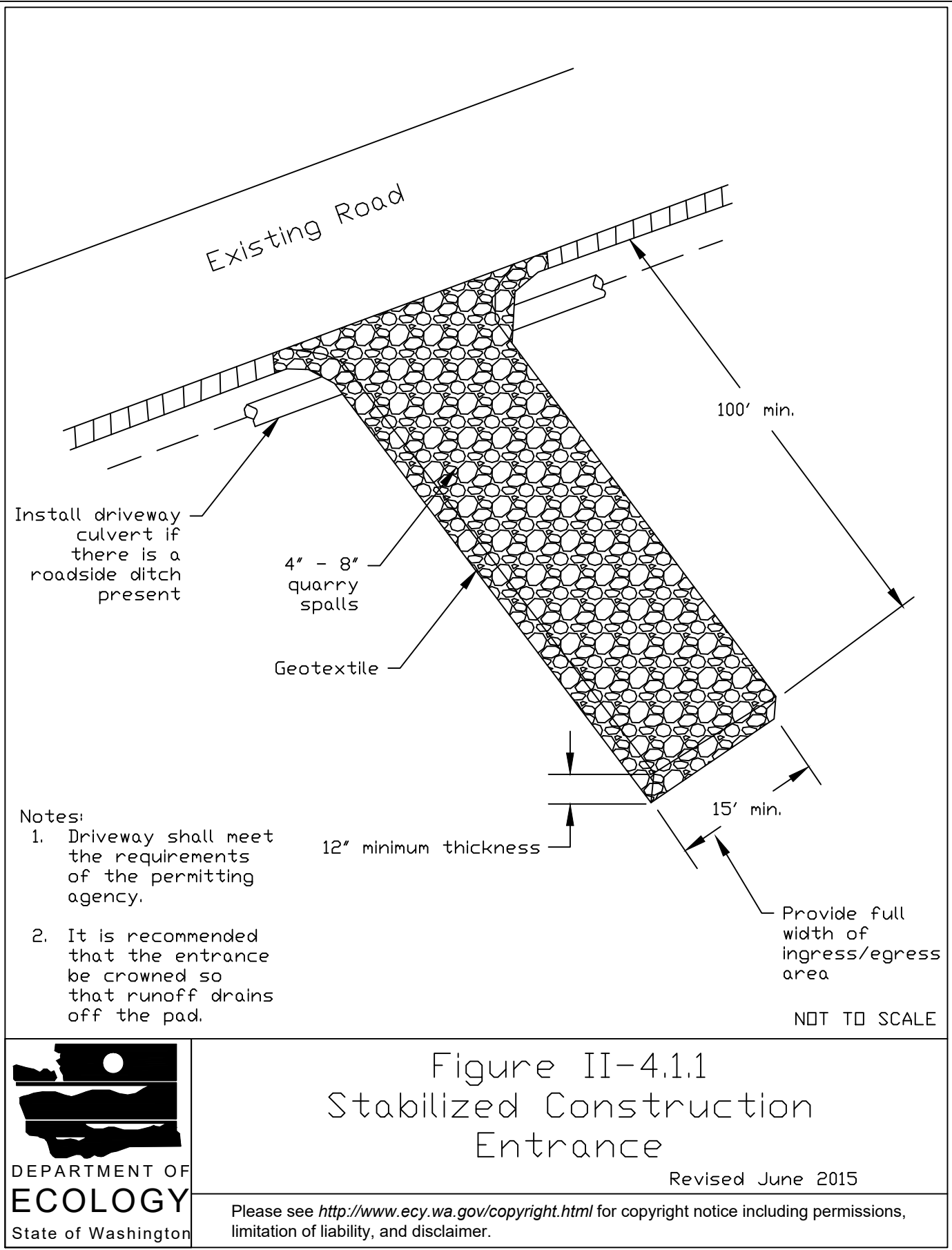
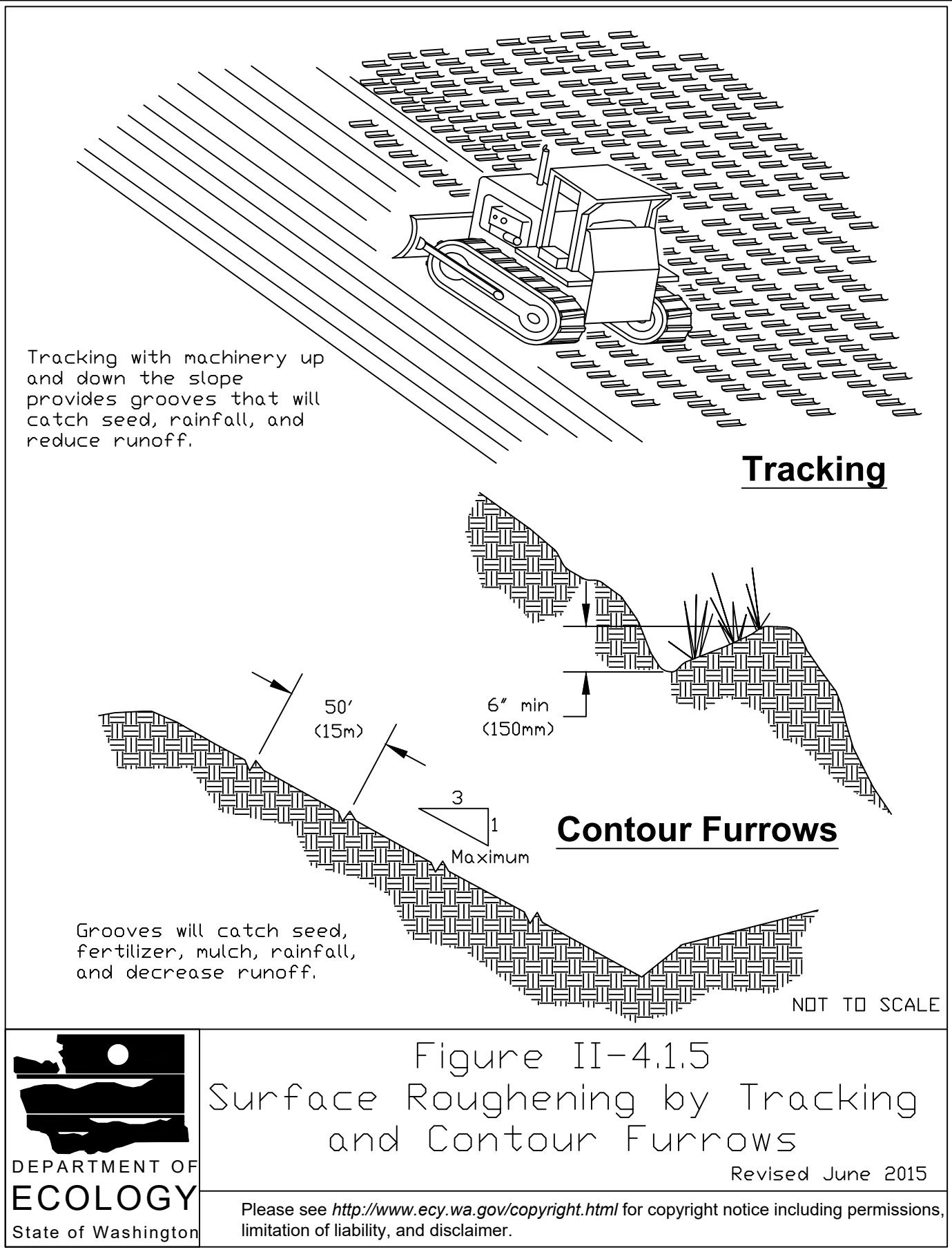
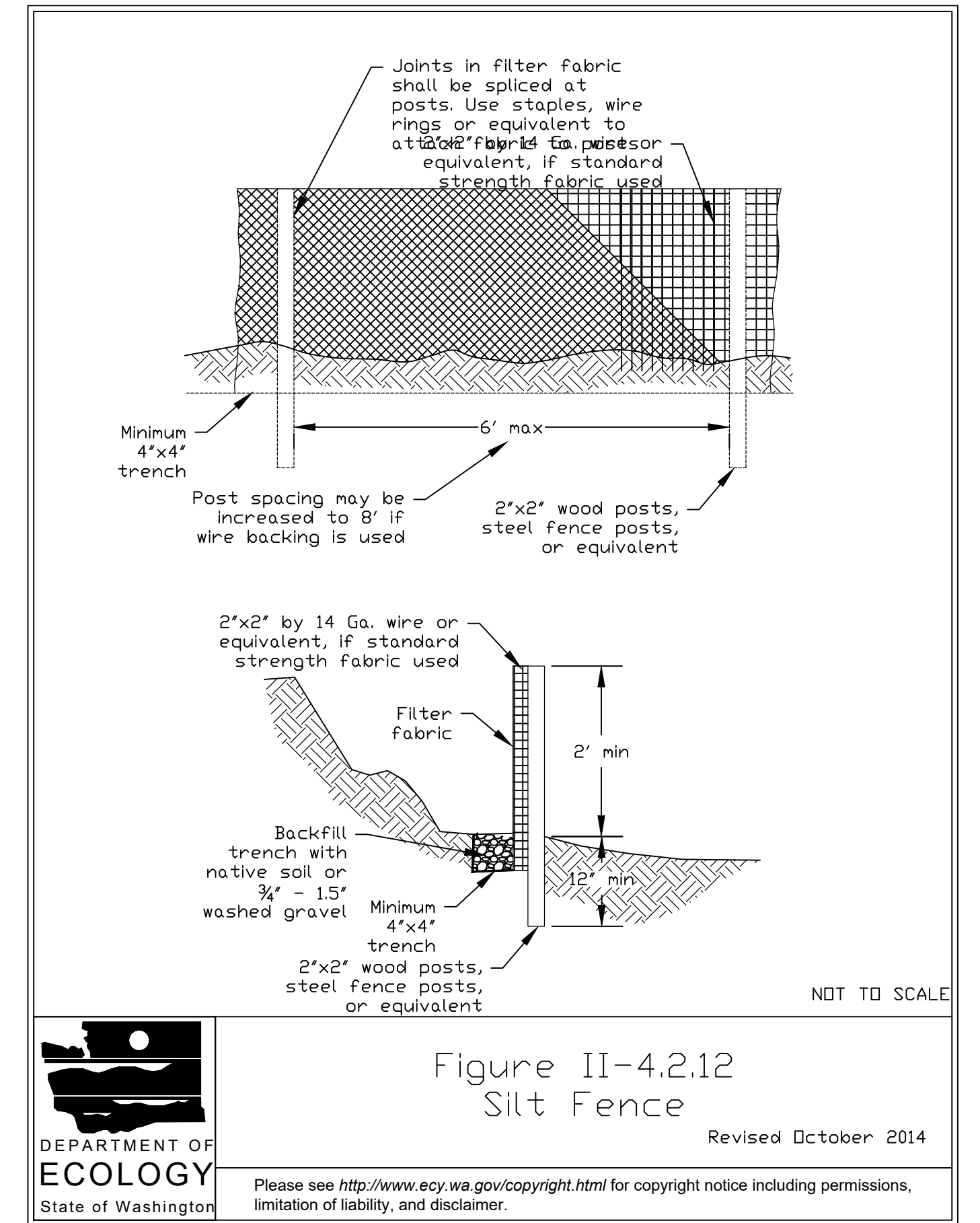
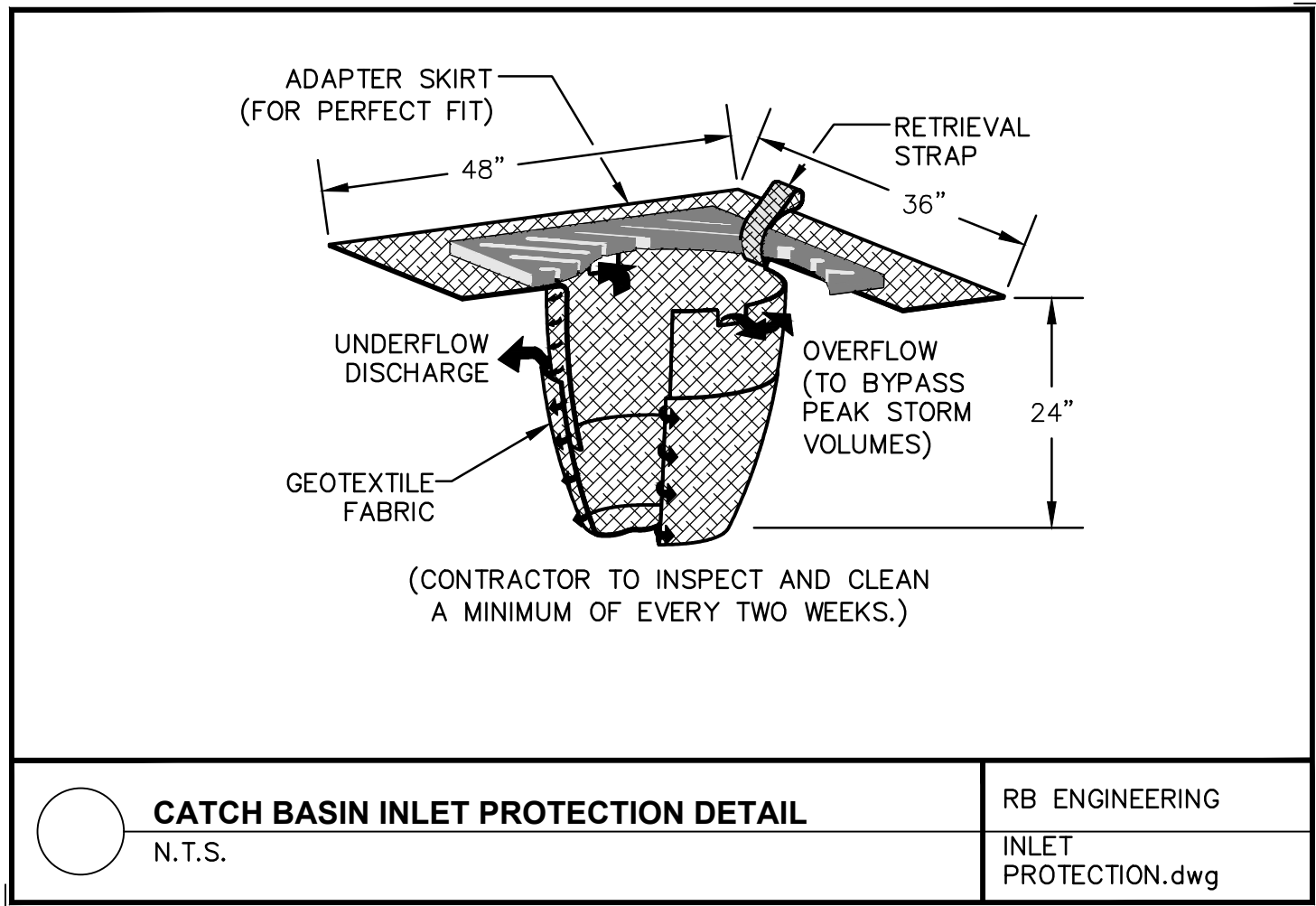
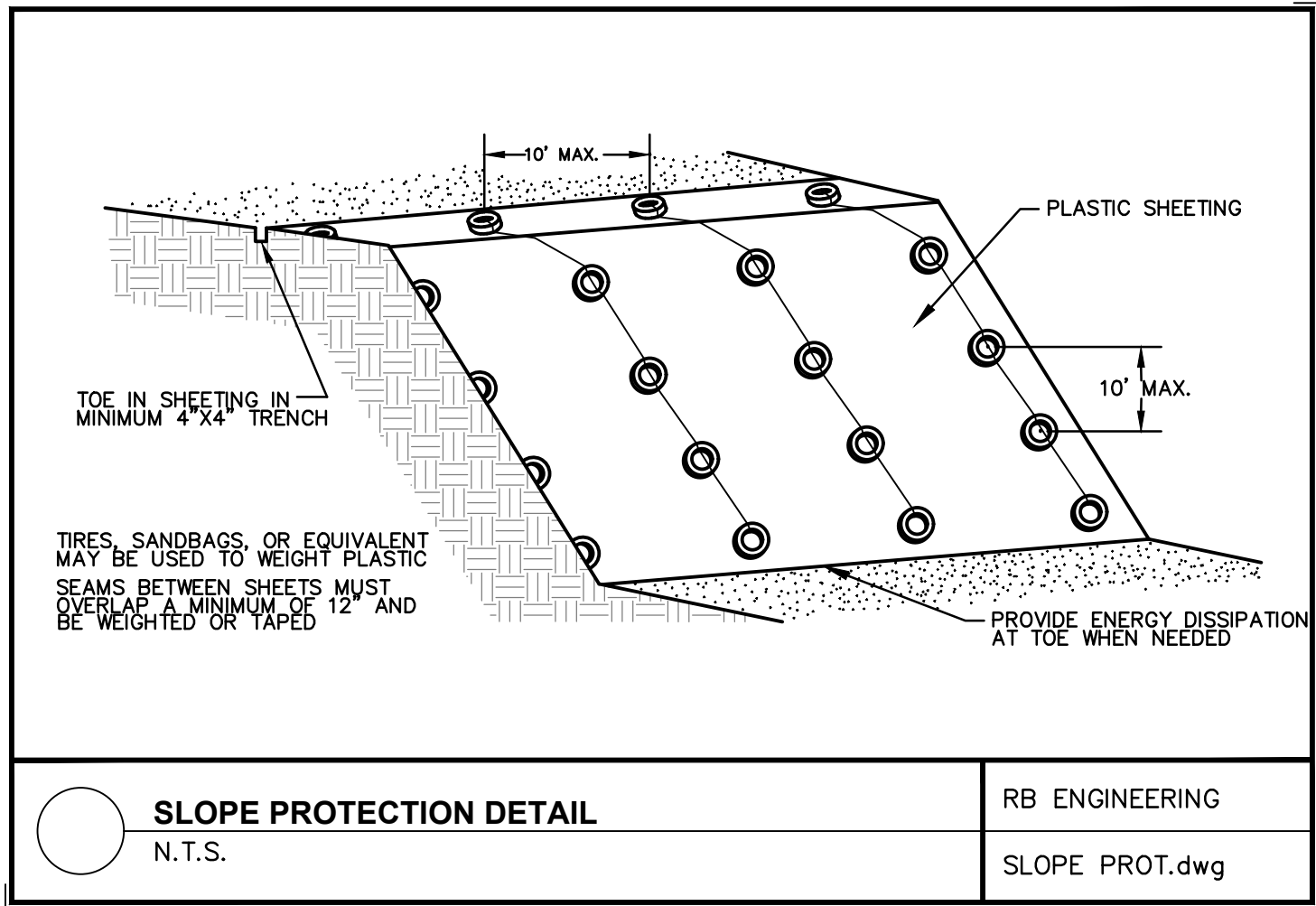
811 know what's below.
Call 811 before you dig.

JOB NUMBER
20056

DRAWING NAME
20056_C3.1_SWSP

C3.1

7 OF 9



WSDOE BMP LIST:

CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SWPPP ONSITE AT ALL TIMES DURING CONSTRUCTION. SEE SWPPP FOR LISTED BMPs.

- (CE) CONSTRUCTION ENTRANCE – BMP C105**
CONTRACTOR SHALL INSTALL 15 FT WIDE CONSTRUCTION ENTRANCE/EXIT USING 4 TO 8 INCH MINUS QUARRY ROCK 12 INCHES THICK PER WSDOE FIGURE II-4.2.12. CRUSHED CONCRETE WILL NOT BE ALLOWED. PLACE A WOVEN GEOTEXTILE WITH A GRAB TENSILE STRENGTH OF 200 PSI IF SOFT SOILS ARE ENCOUNTERED. PROVIDE LENGTH PER PLAN. CONTRACTOR SHALL REMOVE ALL SILT FENCING ONCE THE PROJECT IS COMPLETED OR DETERMINED TO BE STABILIZED BY THE PROJECT ENGINEER.
- (TPS) TEMPORARY AND PERMANENT SEEDING – BMP C120**
CONTRACTOR TO PROVIDE APPLY TEMPORARY AND PERMANENT HYDRO-SEEDING AS OUTLINED ON THE APPROVED TESC. PROVIDE SEED MIXES AT A RATE OF 120 POUNDS PER ACRE. SEED MIXES TO USE ARE PER APPLICABLE WSDOE TABLE 4.1.2 TEMPORARY EROSION CONTROL SEED, 4.1.3 LANDSCAPING SEED, 4.1.4 LOW-GROWING TURF SEED, 4.1.5 BIO-SWALE SEED, 4.1.6 WET AREA SEED AND 4.1.7 MEADOW SEED MIX. USE TYPICAL FERTILIZER OF 10-4-6 NPK AT A RATE OF 90 POUNDS PER ACRE AND MULCH PER BMP C121. ALL SLOPE AREAS SHALL BE SCARIFIED WITH TRACKED VEHICLE PERPENDICULAR TO THE SLOPE PRIOR TO SEEDING SLOPE.
- (SR) SURFACING ROUGHENING – BMP C130**
ALL CUT AND FILL SLOPE AREAS STEEPING THAN 10:1 SLOPE SHALL BE SCARIFIED WITH TRACKED VEHICLE PERPENDICULAR TO THE SLOPE FOR TEMPORARY AND PERMANENT SEEDING. SEE WSDOE FIGURE II-4.1.5 ON THE APPROVED TESC PLANS.
- (SF) SILT FENCING – BMP C233**
CONTRACTOR SHALL INSTALL ALL SILT FENCING PER APPROVED TESC PLAN AND WSDOE FIGURE II-4.2.12. SILT FENCING ALONG THE CLEARING LIMITS SHALL BE ORANGE IN COLOR. SEE PROJECT SWPPP FOR SILT FENCING SPECIFICATIONS.

- (CWA) CONCRETE WASHOUT AREA – BMP C154**
CONTRACTOR SHALL PROVIDE THE CONCRETE WASHOUT AREA AT THE LOCATION SHOWN ON THE APPROVED TESC PLANS. CONTRACTOR SHALL USE ONE OF THE TWO OPTIONS SHOWN ON WSDOE FIGURE II-4.1.7A. WASHOUT AREA SHALL BE A MINIMUM 10-FOOT X 10-FOOT SQUARE. CONTRACTOR SHALL MAINTAIN THE BMP THROUGHOUT CONSTRUCTION AND REMOVE WASHOUT WATER AS NEEDED DURING THE WINTER MONTHS. CLEAN ALL CONCRETE TOOLS OVER THE WASHOUT AREA. NO WASHOUT AREA WATER MAY ENTER THE GROUND, SURFACE OR ONSITE STORMWATER SYSTEM.
- (IP) STORM DRAIN INLET PROTECTION – BMP C220**
CONTRACTOR TO PROVIDE INLET PROTECTION ON ALL NEW CATCH BASIN INLETS IMMEDIATELY AFTER INSTALLATION. ALL EXISTING CATCH BASINS WITHIN 500 FEET OF THE SITE CONSTRUCTION ENTRANCE SHALL ALSO RECEIVE INLET PROTECTION. SEE DETAIL ON APPROVED PLANS. REMOVE THE BMP'S ONCE THE SITE IS DETERMINED TO BE STABILIZED BY THE PROJECT ENGINEER.

	% Weight	% Purity	% Germination
Chewings or annual blue grass <i>Festuca rubra</i> var. <i>commutata</i> or <i>Poa annua</i>	40	98	90
Perennial rye blend <i>Lolium perenne</i>	50	98	90
Redtop or colonial bentgrass <i>Agrostis alba</i> or <i>Agrostis tenuis</i>	5	92	85
White dutch clover <i>Trifolium repens</i>	5	98	90

NO.

DATE

DESIGNED BY: ARP

DRAWN BY: ARP

CHECKED BY: RWB

DATE: 09/02/2025

SCALE: 1" = 20'

REVISION

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RIVERFRONT SHORT PLAT

CITY OF CASTLE ROCK WA.

TEMPORARY EROSION & SEDIMENT CONTROL PLAN

811

Know what's below. Call 811 before you dig.

JOB NUMBER

20056

DRAWING NAME

20056_C4.1_TESCPL

C4.1

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