CITY OF BOTH 35TH AVENUE DRAINAGE IMPROV	ESE 2003 WE SEATTLE (206) 728	LE, W
	MAYOR: GITY COUNCIL: STM AND STM AND </td <td>VENU EEN 23 ELL, WA ROJE TR-T40 JECT CE AN BOX B FLOW JED</td>	VENU EEN 23 ELL, WA ROJE TR-T40 JECT CE AN BOX B FLOW JED
EDECATION MAP	APPROVED FOR CONSTRUCTION <u> <u> </u> <u> </u></u>	Sheridan

ERN AVENUE, SUITE 700 VA 98121 55



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LOCATIONS:

UE SE 34TH STREET SE AND 236TH STREET SE IA

CLIENT INFORMATION: CITY OF BOTHELL

CLIENT PROJECT No .:

18415 101ST AVENUE NE BOTHELL, WA 98011

ECT No.:

0226

DESCRIPTION / NOTES:

N EXISTING 18" CMP CULVERT UNDER 35TH AVE SE WITH FISH PASSABLE BURIED STRUCTURE AND CONSTRUCT A NEW STREAM CHANNEL AND BERM TO DIRECT STREAM FLOWS THOUGH THE BURIED STRUCTURE.

Y MAP:



LIST OF STANDARD ABBREVIATIONS

- G GAS MAIN ORDINARY HIGH WATER

OVERHEAD ELECTRIC

RIGHT OF WAY LINE

STORM SEWER LINE

CATCH BASIN TYPE 1

CATCH BASIN TYPE 2

FIRE HYDRANT

JUNCTION BOX

STREET LIGHT

STREET SIGN

GUY WIRE

MAIL BOX

P UNDERGROUND POWER

SANITARY SEWER LINE

TELECOMMUNICATIONS LINE

WETLAND BOUNDARY AND HATCH

IRRIGATION CONTROL VALVE

SANITARY SEWER MAINTENANCE HOLE

OHW -

___ P _____

SD

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DICV

JB 🗌

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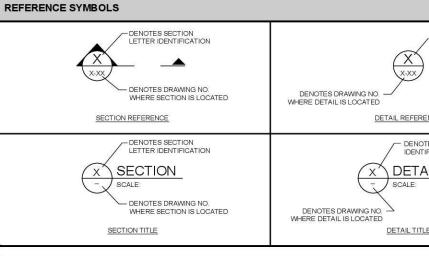
THW THALWEG

W WATER MAIN

_____ SD _____

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A		G		0			
ADS	ADVANCED DRAINAGE SYSTEMS	G	GAS	0.c.	ON CENTER	$\frac{T}{T}$.	
ASPH	ASPHALT	GAL	GALLON	OCT.	OCTOBER	T.	TOWNSHIP, TELEPHONE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GB GWSE	GRADE BREAK GROUNDWATER SURFACE ELEVATION	OHW	ORDINARY HIGH WATER	TCE TCP	TEMPORARY CONSTRUCTION EASEMENT TRAFFIC CONTROL PLAN
AVE	AVENUE	SWJE	ONCOME WATER SURFACE ELEVATION	Р		TESC	TEMPORARY EROSION AND SEDIMENT
AWWD	ALDERWOOD WATER AND WASTEWATER	H		P	POWER		CONTROL
	DISTRICT	Ħ	HEIGHT / HORIZON TAL	PDF	PORTABLE DOCUMENT FORMAT	THW	THALWEG
		HMA HPA	HOT MIX ASPHALT HYDRAULIC PROJECT APPROVAL	PG PSE	PAVEMENT GRADE PUGET SOUND ENERGY	TIF T/W	TAG IMAGE FILE FORMAT TOP OF WALL
BARB	BARBED WIRE	HPA HVF	HYDRAULIC PROJECT APPROVAL HIGH VISIBILITY FENCE	PSE PSI	POUNDS PER SQUARE INCH	1/W	TOP OF WALL
BLDG	BUILDING	.101	There was den in Ferree	PSI PT#	POINT NUMBER	U	
BMC	BOTHELL MUNICIPAL CODE	1		PVC	POLYVINYL CHLORIDE	UGND	UNDERGROUND
BMP(S)	BEST MANAGEMENT PRACTICE(S)	ĨΕ	INVERT ELEVATION			UPO	UNIFORMED POLICE OFFICER
c		ICV	IRRIGATION CONTROL VALVE	R	PANGE (POAD	US	UPSTREAM
CAD	COMPUTER AIDED DRAFTING	1		RCP	RANGE / ROAD REINFORCED CONCRETE PIPE	v	
CADD	COMPUTER AIDED DRAFTING AND	Ĵв	JUNCTION BOX	ROW	RIGHT OF WAY	V	VERTICAL
	DESIGN		storest and prot	RPBA	REDUCED PRESSURE BACKFLOW	VMS	VARIABLE MESSAGE SIGN
СВ	CATCH BASIN	÷			ASSEMBLY		
CDF	CONTROLLED DENSITY FILL		LENGTH	RT	RIGHT TANGENT	w	Martin Chiefer Chiefer Chieferty
CFS CL	CUBIC FEET PER SECON D CLASS / CENTERLINE	LF	LINEAR FOOT / LINEAR FEET LEFT TANGENT	c		W.M.	WATER / WEST / WIDE / WIDTH WILLAMETTE MERIDIAN
CLF	CHAIN LINK FENCE	LWM	LARGE WOODY MATERIAL	s s	SOUTH / STREAM	W/	WILLAMETTEIMERIDIAN
CMP	CORRUGATED METAL PIPE			SD	STORM DRAIN	WAC	WASHINGTON ADMINISTRATIVE CODE
COB	CITY OF BOTHELL	M		SDCB	STORM DRAIN CATCH BASIN	WDFW	WASHINGTON DEPARTMENT OF FISH
CONC	CONCRETE CORRUCATED REASTIC DIRE	MAX	MAXIMUM	SDMH	STORM DRAIN MANHOLE / STORM	MIDE	AND WILDLIFE
CPP CSBC	CORRUGATED PLASTIC PIPE CRUSHED SURFACING BASE COURSE	MDD MIN/MIN	MAXIMUM DRY DENSITY	SDR	DRAIN MAINTENANCE HOLE STANDARD DIMENSION RATIO	WRF	WIRE MESH FENCE WATER SURFACE ELEVATION
CSTC	CRUSHED SURFACING TOP COURSE		MANUAL ON UNIFORM TRAFFIC	SE	SOUTHEAST	WSDOT	WATER SORACE ELEVATION WASHINGTON STATE DEPARTMENT OF
CSWGP	CONSTRUCTION STORMWATER GENERAL		CONTROL DEVICES	SEC.	SECTION		TRANSPORTATION
	PERMIT			SF	HIGH VISIBILITY SILT FENCE		
C&G	CLEAR AND GRUB	N	NORTH	SNOPUD	SNOHOMISH COUNTY PUBLIC UTILITY	YR	YEAR
D			NORTH NORTH AMERICAN DATUM OF	SS	DISTRICT SANITARY SEWER	YK	TEAK
DBH	DIAMETER BREAST HEIGHT	MAD03/11	1983/2011	SSMH	SANITARY SEWER MANHOLE / SANITARY		
DI	DUCTILE IRON	NAVD88	NORTH AMERICAN VERTICAL DATUM OF		SEWER MAINTENANCE HOLE		
DIAM.	DIAMETER		1988	ST	STREET		
DS DCVA	DOWNSTREAM DOUBLE CHECK VALVE ASSEMBLY	NE NO.	NORTHEAST NUMBER	STA	STATION STANDARD		
DUVA	DOUBLE CHECK VALVE ASSEMBLY	NO. NTS	NUMBER NOT TO SCALE	STD	STANDARD		
E		NW	NORTHWEST	311	500111121		
Ē	EAST						
EL	ELEVATION						
EOP	EDGE OF PAVEMENT EXISTING						
	ND - EXISTING				LEGEND - PROPO		
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			BUILDING	_			CENTERLINE
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·22	999 999 SD	c c < c	SENTERLINE SONTOUR - MAJOR SONTOUR - MINOR SULVERT				CONTOUR - MAJO CONTOUR - MINOF HMA PAVEMENT
	999		SENTERLINE SONTOUR - MAJOR SONTOUR - MINOR SULVERT EDGE OF PAVEMENT				CONTOUR - MAJO CONTOUR - MINO HMA PAVEMENT GRIND AND OVER FILL LIMITS
·22	999 999 SD		SENTERLINE SONTOUR - MAJOR SONTOUR - MINOR SULVERT			F C	CONTOUR - MAJO CONTOUR - MINOF HMA PAVEMENT



SURVEY NOTES

- 1. HORIZONTAL DATUM: NAD 83/11
- 2. VERTICAL DATUM: NAVD88
- 3. SEE SHEET G-04 FOR SURVEY CONTROL

LEGEND - TESC AND SITE PREPARATION X TREE REMOVAL – C&G — CLEAR AND GRUB — HVF — HIGH VISIBILITY FENCING — SF — _____ SF — ____ HIGH VISIBILITY SILT FENCE SAWCUT PAVEMENT STABILIZED CONSTRUCTION ENTRANCE ----- OHW ------ OHW ---- OHW --- ORDINARY HIGH WATER TEMPORARY CONSTRUCTION EASEMENT PAVEMENT REMOVAL STREAM MATERIAL CONTRACTOR DESIGNED BURIED STRUCTURE BURIED STRUCTURE SECTION LWM STRUCTURE 24+ INCH KEY ROOTWAD LOG 20-28 INCH FOOTER LOGS 16-22 INCH FOOTER LOGS 8-12 INCH DEFLECTOR LOGS

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                                               TREES
                                               UTILITY POLE
                                               WATER METER
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                                               WATER VALVE
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STANDARD NOTES

- ALL DESIGN AND CONSTRUCTION MUST BE IN ACCORDANCE THE CITY OF BOTHELL MUNICIPAL CODE (BMC), THE CITY OF BOTHELL DESIGN AND CONSTRUCTION STANDARDS (BOTHELL STANDARDS) WSDOT STANDARD SPECIFICATIONS AND THE CONDITIONS OF PERMIT APPROVAL
- 2. THE DESIGN ELEMENTS WITHIN THESE PLANS HAVE BEEN REVIEWED ACCORDING TO BOTHELL STANDARDS REQUIREMENTS. SOME ELEMENTS MAY HAVE BEEN OVERLOOKED OR MISSED BY THE PLAN REVIEWER. ANY VARIANCE FROM ADOPTED STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE CITY OF BOTHELL PRIOR TO CONSTRUCTION.
- 3. A COPY OF THE APPROVED PLANS, INCLUDING ALL REQUIRED CITY NOTES AND STAMPS, MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- 4. CONSTRUCTION NOISE IS LIMITED IN ACCORDANCE WITH BMC 8.26.: NORMALLY THIS IS 7:00 AM TO 8:00 PM, MONDAY THROUGH FRIDAY AND 9:00 AM THROUGH 6:00 PM ON SATURDAY WITH NO WORK ON SUNDAY OR CITY-OBSERVED HOLIDAYS UNLESS AS OTHERWISE APPROVED OR REQUIRED
- 5. CITY OF BOTHELL DATUM MUST BE USED FOR ALL SURVEY CONTROL AND ELEVATION INFORMATION (NAVD 1988, NAD 83).
- 6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS NECESSARY BEFORE INITIATING OFF-SITE WORK. EASEMENTS REQUIRE REVIEW AND APPROVAL PRIOR TO CONSTRUCTION AND MUST BE INCLUDED ON THE APPROVED PLANS.
- 7 FRANCHISED LITH THES OR OTHER INSTALLATIONS THAT ARE NOT SHOWN ON THESE APPROVED PLANS MAY NOT BE CONSTRUCTED UNLESS AN APPROVED SET OF PLANS THAT MEET ALL REQUIREMENTS FOR A RIGHT-OF-WAY INVASION PERMIT APPROVED BY THE CITY.
- 8. PRIVATE OR FRANCHISE UTILITIES MUST HAVE AT LEAST 5 FEET HORIZONTAL CLEARANCE FROM ALL CITY WATER SEWER, AND STORMWATER STRUCTURES
- 9. ALL UTILITY TRENCHES AND ROADWAY SUBGRADE MUST BE BACKFILLED AND COMPACTED TO 95 PERCENT MAXIMUM DRY DENSITY, FLOWABLE CONTROLLED DENSITY FILL (CDF) MAY BE USED IF APPROVED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR (NO DRY CDF IS ALLOWED)
- 10. OPEN CUTTING OF EXISTING ROADWAYS FOR NON-FRANCHISED UTILITY OR STORM WORK IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED AND NOTED ON THESE APPROVED PLANS. ANY OPEN CUT MUST BE RESTORED IN ACCORDANCE WITH BOTHELL STANDARDS.
- 11. SOIL TREATMENT INCLUDING BUT NOT LIMITED TO FLY-ASH AND CEMENT, MAY NOT BE USED AS IN FILL OR TRENCH BACKFILL WITHOUT APPROVAL BY THE PUBLIC WORKS DIRECTOR AND AN APPROVED PLACEMENT, TESTING, AND WATER-QUALITY INSPECTION PROGRAM.
- 12. THE CONTRACTOR IS 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 TH TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW WILL REQUIRE AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND A TRAFFIC CONTROL PLAN APPROVED BY CITY OF BOTHELL
- 13. THE CONTRACTOR MUST INSTALL AND MAINTAIN WHATEVER EROSION & SEDIMENTATION CONTROL MEASURES NECESSARY TO ENSURE THAT SILT-LADEN WATER DOES NOT LEAVE THE CONSTRUCTION AREA. ANY SUCH FACILITIES INSTALLED MUST BE APPENDIX C - 3 2023 UPDATE MAINTAINED IN PROPER OPERATING CONDITION UNTIL ALL DISTURBED AREAS HAVE BEEN REVEGETATED OR OTHERWISE DEVELOPED AND THE POTENTIAL FOR EROSION ELIMINATED.
- 14. CONSTRUCTION TRUCK TRAFFIC MUST BE ROUTED IN ACCORDANCE WITH AN APPROVED HAUL ROUTE AND CONTRACTOR PARKING MUST BE LOCATED ON-SITE UNLESS ALLOWED IN ACCORDANCE WITH AN APPROVED PARKING PLAN.
- 15. LOCATIONS OF EXISTING BURIED UTILITIES ARE SHOWN FOR DESIGN PURPOSES AND MAY NOT BE ACCURATE OR COMPLETE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE, HAVE LOCATED BY THE APPROPRIATE COMPANIES, AND/OR POTHOLE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION, CALL UNDERGROUND LOCATE AT 1-800-424-5555 OR 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATIONS
- 16 SUBMITTAL REVIEW AND APPROVAL OF RECORD DRAWINGS IS REQUIRED PRIOR TO ACCEPTANCE OF PROJECT

CONSTRUCTION SEQUENCE STANDARD NOTES

- 1. A PRECONSTRUCTION MEETING MUST BE HELD BETWEEN THE PUBLIC WORKS CONSTRUCTION INSPECTOR, THE CONTRACTOR, AND THE CONTRACTOR'S CONSTRUCTION REPRESENTATIVE BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY.
- 2. SCHEDULE CLEARING LIMIT AND TREE PROTECTION INSPECTION AND APPROVAL BEFORE INSTALLING TEMPORARY EROSION & SEDIMENT CONTROL (TESC) MEASURES OR ANY SITE CLEARING.
- 3. INSTALL TESC MEASURES AND SCHEDULE TESC INSPECTION AND APPROVAL BEFORE STARTING SITE CONSTRUCTION.
- 4. CLEAR AND GRUB SITE. RETAIN VEGETATION AS POSSIBLE, SELECTIVE CLEARING IS ENCOURAGED TO MINIMIZE EFFORT SPENT ON TESC ACTIVITIES.
- 5. GRADE SITE AND ROUGH GRADE ROADWAYS PER PLANS, GRADE SITE WITHIN 1-FOOT OF FINISH ROAD ELEVATION AND FINISHED GRADE EXCEPT WHERE TOPOGRAPHY REQUIRES CONFORMING TO A SPECIFIC GRADING PLAN, ANY WALLS MUST INCLUDE DRAINAGE AND FALL PROTECTION IF WALL HEIGHT EXCEEDS 30 INCHES. GEOTECHNICAL TESTING REQUIRED FOR ALL FILL AND ROAD BASE ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- 6. INSTALL UTILITIES AND PERMANENT STORM DRAINAGE SYSTEM AS SOON AS POSSIBLE. GEOTECHNICAL TESTING REQUIRED FOR ALL TRENCH FILL ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR
- 7. GEOTECHNICAL TESTING, PERFORMANCE PROOF ROLL, AND CITY SUBGRADE APPROVAL IS REQUIRED PRIOR TO PAVING. THE CONTRACTOR MUST REQUEST A PAVING PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS PRIOR TO PAVING.
- 8. THIRD-PARTY PAVEMENT DENSITY AND FINISH TESTING REQUIRED FOR ALL PAVEMENT (HMA, CONCRETE, OTHER) ACTIVITIES UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR.
- 9. HYDROSEED AND MULCH ALL EXPOSED AREAS THAT HAVE NOT BEEN PREVIOUSLY STABILIZED. SLOPES STEEPER THAN 15% MUST BE STABILIZED WITH JUTE MATTING OR OTHER CITY-APPROVED EROSION CONTROL PRODUCT
- 10. AFTER ENTIRE SITE IS STABILIZED AND THE POTENTIAL FOR EROSION HAS PASSED. TESC FACILITIES MUST BE REMOVED UPON CITY APPROVAL
- 11. CLEAN ANY SILT THAT HAS ACCUMULATED IN THE PERMANENT STORM DRAINAGE SYSTEM AND VIDEO-INSPECT STORM DRAINAGE AND SEWER SYSTEM.
- 12. REQUEST A PUNCHLIST INSPECTION AND COMPLETE ALL CORRECTIONS PRIOR TO FINAL CITY APPROVAL OF COMPLETION OF WORK AND COMPLIANCE OF PERMIT REQUIREMENTS

TEMPORARY EROSION AND SEDIMENT CONTROL STANDARD NOTES

- 1. THE TEMPORARY EROSION & SEDIMENT CONTROL (TESC) MEASURES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC MEASURES MUST BE UPGRADED AS NEEDED FOR LINEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES UMPING AND CONTAINMENT, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY CITY OF BOTHELL
- 2. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL THE CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ONSITE EROSION HAS PASSED. THE TESC PLANS ARE TO BE CONSIDERED A DYNAMIC MINIMUM GUIDELINE AND AS SUCH WILL MOST LIKELY HAVE TO BE CONTINUALLY EVALUATED AND/OR MODIFIED DEPENDING ON SITE CONDITIONS.
- 3. THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR AND TESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVE
- 4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN MUST BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS WILL BE PERMITTED. THE CONTRACTOR MUST MAINTAIN THE FLAGGING FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES MUST BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT, ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- 6. THE TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- 7. THE TESC FACILITIES MUST BE INSPECTED DAILY BY THE TESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS MUST BE KEPT OF WEEKLY REVIEWS OF THE TESC FACILITIES.
- 8. SOILS MUST NOT REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS FROM MAY 1 THROUGH SEPTEMBER 30 AND NOT MORE THAN 48 HOURS FROM OCTOBER 1 AND APRIL 30. EXPOSED AND UNWORKED SOILS MUST BE COVERED BY MULCH, SODDING, PLASTIC COVERING, JUTE-MATTING, OR AS OTHERWISE APPROVED OR REQUIRED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- 9. THE TESC FACILITIES ON INACTIVE SITES MUST BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN 24 HOURS FOLLOWING A STORM EVENT.
- 10. AT NO TIME MAY MORE THAN 6-INCHES OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES MUST BE CLEANED PRIOR TO PAVING AND FINAL APPROVAL. THE CLEANING OPERATION MAY NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- 11. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN MUST BE MODIFIED WITH THE NECESSARY TESC MEASURES AND MUST PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM, THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- 12. PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS MUST BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS MUST BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON, A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED MUST BE SUBMITTED TO THE PUBLIC WORKS CONSTRUCTION INSPECTOR FOR REVIEW AND APPROVAL.
- 13. DUST GENERATED DURING CONSTRUCTION ACTIVITIES MUST BE CONTROLLED BY WETTING DUST SOURCES SUCH AS AREAS OF EXPOSED SOILS, WASHING TRUCK WHEELS BEFORE THEY LEAVE THE SITE, AND INSTALLING AND MAINTAINING ROCK CONSTRUCTION ENTRANCES, CONTRACTOR MUST MECHANICALLY SWEEP STREETS DAILY WITH VACUUM SWEEPER UNLESS OTHERWISE APPROVED FLUSHING OF STREETS AND SIDEWALKS WILL NOT BE PERMITTED. A WHEEL-WASH FOR CONSTRUCTION TRAFFIC MUST BE INSTALLED IF REQUIRED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR. ANY VIOLATIONS OF THE CITY OF BOTHELL MUNICIPAL CODE OR OTHER APPLICABLE REGULATIONS MAY RESULT IN IMPOSING PENALTY FEE.

HYDROSEEDING STANDARD NOTES AND SPECIFICATIONS

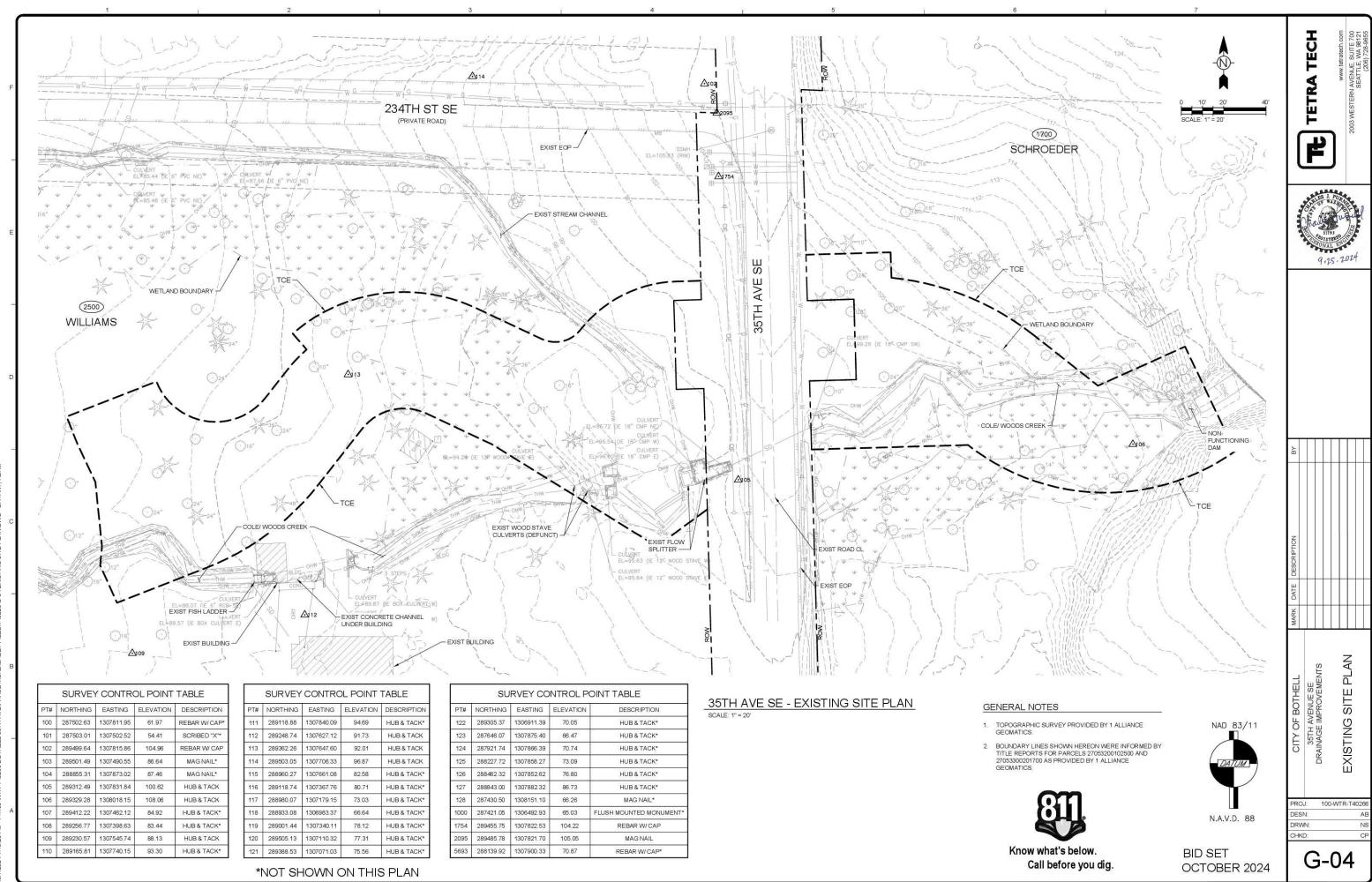
- 1. CONSTRUCTION ACCEPTANCE WILL BE SUBJECT TO A WELL-ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND THE BOTHELL STANDARDS
- 2. ALL DISTURBED AREAS SUCH AS DETENTION FACILITIES, ROADWAY BACKSLOPES, ETC., MUST BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEED OR AS OTHERWISE APPROVED BY THE CITY OF BOTHELL
- 3. ALL AREAS TO BE SEEDED MUST BE CULTIVATED AND THE DISTURBED AREAS FULLY STABILIZED. THIS MAY REQUIRE ADDITIONAL DISCING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS TO STABILIZE THE AREA FREE FROM FURTHER EROSION
- 4. IMMEDIATELY FOLLOWING FINISH GRADING, INSTALL PERMANENT VEGETATION AND MULCH IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN OR HYDROSEED. SPECIFICATIONS FOR HYDROSEEDING ARE AS FOLLO
- HYDROSEEDING SPECIFICATIONS
- APPLICATION RATE: 150 POUNDS PER ACRE
- ii. MIX CONSISTENCY: 10% HIGHLAND COLONIAL BENT, 50% PERENNIAL RYE AND 40% PENNLAWN RED FESCUE
- MULCH: 2,000 POUNDS PER ACRE
- W. FERTILIZER: 400 POUNDS PER ACRE OF 10-20-20 OR 22.5-10-10. SLOW-RELEASE FERTILIZERS ARE PREFERRED
- V. GROUND CHARACTERISTICS: ON SLOPES OF 2:1 OR GREATER, AN APPROVED TACKIFIER BINDER MUST BE USED AT 40 POUNDS PER ACRE
- 5. ALL HYDROSEEDING FIRMS MUST HAVE A PRINTOUT OF THE APPLICATION RATE FOR EACH JOB READILY AVAILABLE FOR INSPECTION BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR.
- 6. THE PUBLIC WORKS CONSTRUCTION INSPECTOR MUST BE NOTIFIED 48 HOURS PRIOR TO ANY HYDROSEED APPLICATION TO ENSURE COMPLIANCE OF THESE SPECIFICATIONS

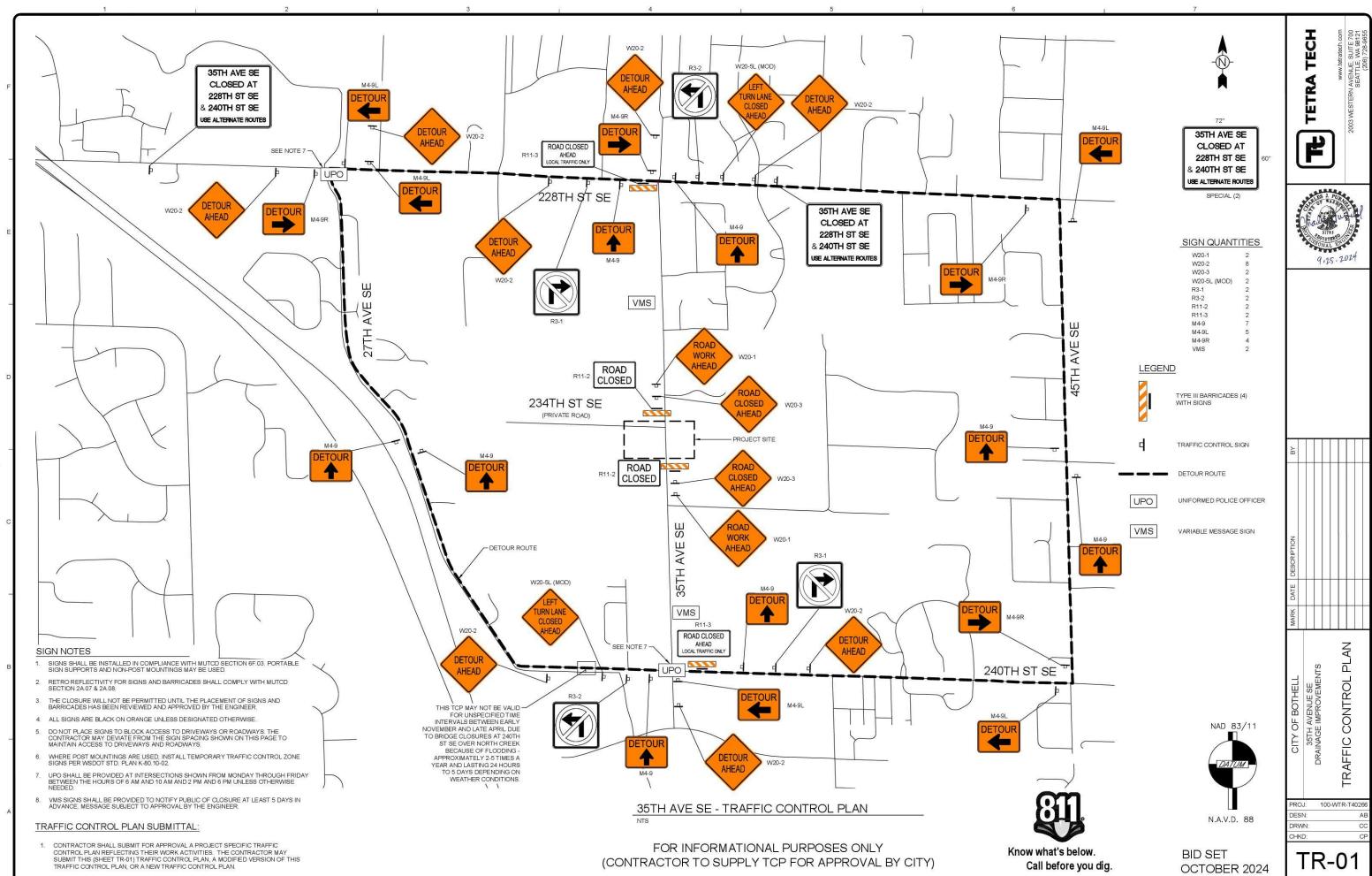
ROAD CONSTRUCTION STANDARD NOTES

- 1. IMPROVEMENTS MUST BE CONSTRUCTED AS NOTED ON ROAD CROSS SECTIONS AND IN CONFORMANCE WITH THE BOTHELL STANDARDS AND THE CURRENT EDITIONS OF THE WSDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
- 2. CRUSHED ROCK BASE AND/OR SUBGRADE FILL MUST BE VERIFIED AT 95% OF MAXIMUM DENSITY PER ASTM D1557 TO PROVIDE A FIRM AND UNYIELDING BASE. REMOVAL OF UNSUITABLE MATERIAL AND REPLACEMENT WITH SELECT MATERIAL MAY BE REQUIRED. DENSITY TESTING MUST BE DONE BY A LICENSED GEOTECHNICAL ENGINEER.
- 3. SUBGRADE AND CRUSHED ROCK BASE PERFORMANCE TESTING, INCLUDING A PROOF ROLL WITH A FULLY LOADED, 10-CUBIC-YARD DUMP TRUCK, MUST BE WITNESSED AND APPROVED BY THE PUBLIC WORKS CONSTRUCTION INSPECTOR PRIOR TO PLACING ASPHALT AND CEMENT CONCRETE PAVEMENT. THIRD-PARTY PAVEMENT INSPECTION INCLUDING THICKNESS, COMPACTION/DENSITY TEMPERATURE. AND SMOOTHNESS IS REQUIRED UNLESS OTHERWISE APPROVED BY THE CITY CONSTRUCTION INSPECTOR
- 4. ANY UTILITY RINGS/GRATES OR MONUMENTS RAISED AFTER FINAL LIFT MUST BE RAISED WITH A MAXIMUM 1-FOOT WIDE CLOSURE PATCH CONSISTING OF A MINIMUM 5-INCH THICKNESS OF MINIMUM 3,000 PSI CONCRETE OVERLAIN BY DESIGN PAVEMENT THICKNESS.
- 5. ALL UNDERGROUND UTILITIES ARE TO BE INSPECTED AND APPROVED BY THE CITY PRIOR TO PLACING PAVEMENT, PAVEMENT MUST CONSIST OF ½-INCH HMA UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR
- 6. AN APPROVED TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MUTCH IS REQUIRED FOR ALL WORK IN THE RIGHT-OF-WAY OF THE
- 7. ANY AND ALL DAMAGED OR REPLACED CURB AND SIDEWALK MUST BE REPLACED JOINT-TO-JOINT. APPENDIX C 4 2023 UPDATE

TETRA TECH							2003 WESTERN AVENUE, SUITE 700 SEATTLE, WA 98121 (206) 728-9655				
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MARK DATE DESCRIPTION						0 3					
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		35TH AVENUE SE	DRAINAGE IMPROVEMENTS					STANDARD NOTES			
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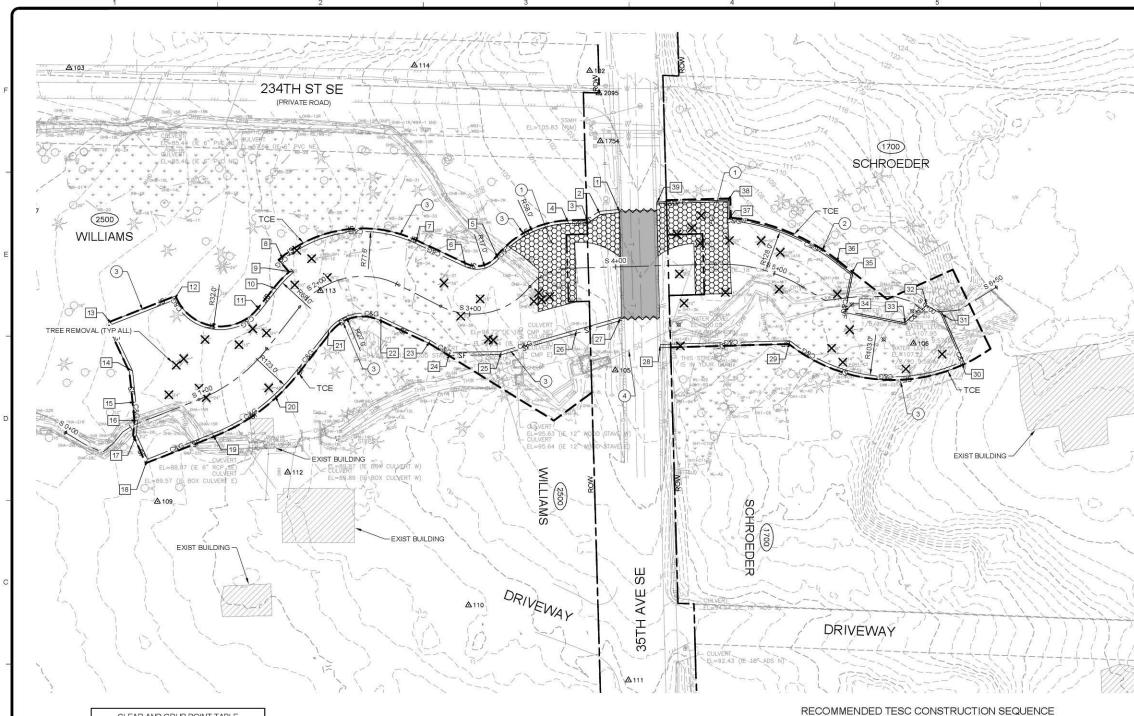




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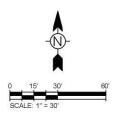






C	CLEAR AND GR	UB POINT TA	ABLE								
PT NO.	DESCRIPTION	NORTHING	EASTING	PT NO.	DESCRIPTION	NORTHING	EASTING	PT NO.	DESCRIPTION	NORTHING	EASTING
1	C&G	289411.10	1307834.76	16	C&G	289281.17	1307533.40	31	C&G	289347.95	1308035.24
2	C&G	289409.89	1307822.49	17	C&G	289272.38	1307532.60	32	C&G	289353.15	1308026.53
3	C&G	289404.58	1307814.80	18	C&G	289256.99	1307539.53	33	C&G	289341.16	1308013.06
4	C&G	289404.24	1307802.81	19	C&G	289272.84	1307580.05	34	C&G	289348.75	1307974.43
5	C&G	289382.07	1307758.80	20	C&G	289297.22	1307619.15	35	C&G	289372.28	1307979.05
6	C&G	289377.21	1307738.21	21	C&G	289337.89	1307652.71	36	C&G	289379.19	1307970.28
7	C&G	289391.82	1307707.16	22	C&G	289345.67	1307685.45	37	C&G	289406.17	1307902.20
8	C&G	289381.29	1307624.39	23	C&G	289331.14	1307716.35	38	C&G	289417.93	1307901.86
9	C&G	289373.84	1307630.87	24	C&G	289323.75	1307728.28	39	C&G	289416.67	1307857.75
10	C&G	289363.17	1307620.44	25	C&G	289324.31	1307760.68				
11	C&G	289349.99	1307610.11	26	C&G	289337.83	1307807.74	1			
12	C&G	289356.38	1307556.03	27	C&G	289345.76	1307835.35	1			
13	C&G	289341.24	1307517.31	28	C&G	289328.71	1307860.02	1			
14	C&G	289312.03	1307530.21	29	C&G	289330.98	1307940.98				
15	C&G	289292.71	1307532.21	30	C&G	289317.92	1308048.48	1			

- 1. PRE-CONSTRUCTION MEETING.
- 2. FENCE CLEARING LIMITS AND INSTALL PERIMETER PROTECTION FOR INSPECTION BY THE ENGINEER.
- 3. POST CONSTRUCTION SIGN WITH THE NAME AND PHONE NUMBER OF THE TESC CONTRACTOR.
- 4. LOCATE STAGING AREAS AS NEEDED, SEE GENERAL NOTE 4. SECURE AN AREA FOR REFUELING OPERATIONS. NO STAGING OR REFUELING MAY OCCUR WITHIN 150 FEET OF WATERBODIES.
- 5. INSTALL HIGH VISIBILITY FENCING AND CONSTRUCT TEMPORARY AND THE TALE HIGH VIEW OF THE CONTROLS (STORM SYSTEM) PERMANENT SURFACE WATER CONTROLS (STORM SYSTEM) SIMULTANEOUSLY WITH CLEARING AND GRUBBING. SEED AND INSTALL MATTING TO STABILIZE AS DIRECTED BY THE ENGINEER, DO NOT STOCKPILE EQUIPMENT OR MATERIAL WITHIN WETLAND OR STREAM BUFFERS
- 6. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, BMPS ARE ALWAYS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 7. SURFACE ROUGHEN OR TEXTURE ALL "CUT" SLOPES PRIOR TO SOIL PLACEMENT AND SEEDING.
- 8. UPON COMPLETION OF THE PROJECT, ALL DISTURBED AREAS MUST BE STABILIZED AND BMPS REMOVED, AS DIRECTED BY THE ENGINEER.
- 9. HIGH VISIBILITY SILT FENCE AND HIGH VISIBILITY FENCING TO REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION COMPLETION



GENERAL NOTES

- 1 THIS PLAN REPRESENTS THE MINIMUM TESC REQUIREMENTS FOR THIS PROJECT. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE CITY OF BOTHELL.
- 2. THE LOCATION OF EXISTING UTILITIES SHOWN IS BASED ON THE PROJECT SURVEY AND UTILITY RECORD MAPS. THIS INFORMATION SHALL NOT BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS IN THE FIELD AS NECESSARY.
- THE CONTRACTOR SHALL COORDINATE WITH UTILITY OWNERS AND 3 IMPLEMENT ALL NECESSARY PROTECTIVE MEASURES TO ADEQUATELY PROTECT FRANCHISE UTILITIES FOR THE FULL DURATION OF CONSTRUCTION. FRANCHISE UTILITIES INCLUDE, BUT ARE NOT LIMITED TO WATER MAINS, GAS LINES, OVERHEAD POWER, FIBER INTERNET, AND UNDERGROUND TELECOMMUNICATIONS.
- ALL STOCKPILE AND STAGING AREAS SHALL BE LOCATED WITHIN THE LIMITS OF THE ROAD CLOSURE OR THE TEMPORARY CONSTRUCTION EASEMENT. THE CONTRACTOR MAY ELECT TO OBTAIN TEMPORARY ACCESS TO PRIVATE PROPERTY FOR USE AS STOCKPILING AND/OR STAGING LOCATIONS, SUCH AGREEMENTS, NEGOTIATIONS, AND PAYMENTS ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE STOCKPILE LOCATION TO THE ENGINEER FOR APPROVAL.
- 5. SALVAGED TREES AND ROOTWADS SHALL BE INCORPORATED INTO THE LARGE WOOD FEATURES AS NOTED. SEE SHEET C-09 AND C-12.
- 6. THE CONTRACTOR SHALL PROTECT ALL TREES NOT TO BE REMOVED.
- 7. SEE SHEET G-03 FOR TEMPORARY EROSION AND SEDIMENT CONTROL STANDARD NOTES.
- HIGH VISIBILITY FENCING, HIGH VISIBILITY SILT FENCE, AND CLEAR AND GRUB LIMITS ARE SHOWN WITH SIGNIFICANT SEPARATION FOR CLARITY THE FEATURES SHOULD BE TIGHTLY GROUPED WITH MINIMAL SPACE BETWEEN EACH OF THEM AND SHOULD ADHERE TO THE CLEAR AND GRUB LIMITS AS DEFINED IN THE PLAN VIEW OF THIS SHEET.
- PRIOR TO ENTERING THE ROADWAY, WHEELS MUST BE WASHED OF ALL SEDIMENT IN THE STABILIZED CONSTRUCTION ACCESS. SEDIMENT TRACKED OUT ONTO THE ROADWAY MUST BE SWEPT BY THE END OF THE WORK DAY

KEY NOTES

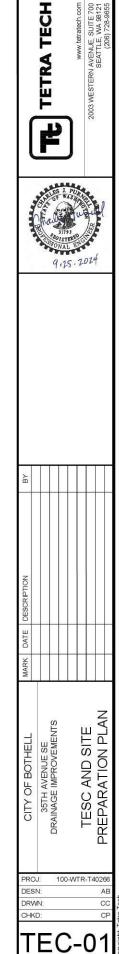
- STABILIZED CONSTRUCTION ENTRANCE. SEE WSDOT STANDARD PLAN 1-80.10-02. RESTORE PRE-CONSTRUCTION CONDITION UPON REMOVAL OF STABILIZED CONSTRUCTION ENTRANCE. 1
- 2 INSTALL HIGH VISIBILITY FENCING AT C&G LIMIT. OFFSETS ARE SHOWN FOR VISUAL CLARITY. SEE WSDOT STANDARD PLAN I-10.10-01. HIGH VISIBILITY SILT FENCE SHALL REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION.
- INSTALL HIGH VISIBILITY SILT FENCE AT C&G LIMIT. OFFSETS ARE SHOW (3) FOR VISUAL CLARITY. SEE WSDOT STANDARD PLAN -30.17-01. HIGH VISIBILITY SILT FENCE SHALL REMAIN IN PLACE FOR 3 YEARS FOLLOWING CONSTRUCTION.
- PLUG EXISTING PIPE CULVERT AND ABANDON IN PLACE PER SPECIAL PROVISION 7-08.

FENCING SEG	MENT	FENCING
START PT NO.	END PT NO.	TYPE
1	16	SF
16	17	NONE
17	27	SF
27	28	NONE
28	30	SF
30	39	HFV

START POINTS AND END POINTS ARE THE SAME POINTS AS INDICATED IN THE CLEAR AND GRUB POINT TABLE.



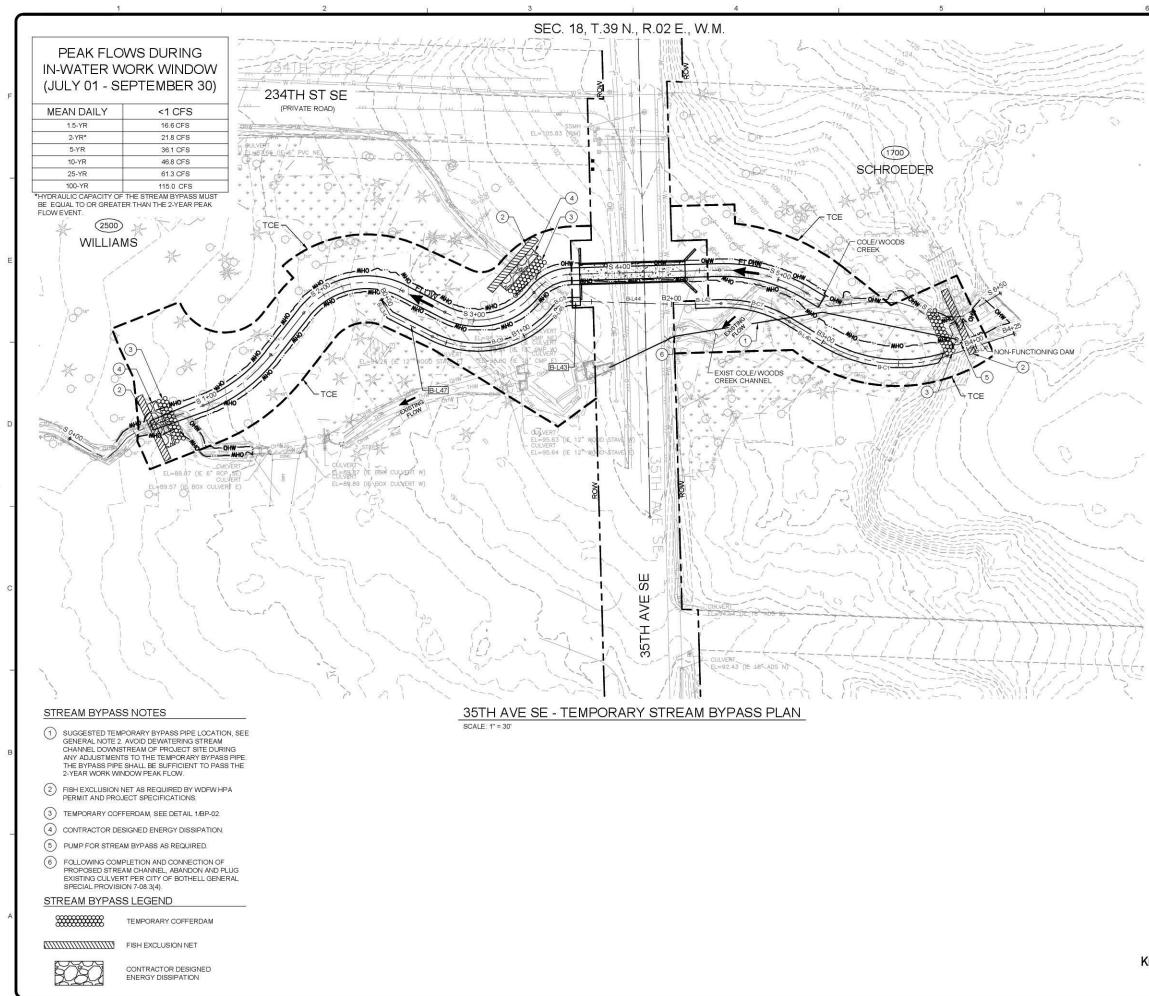
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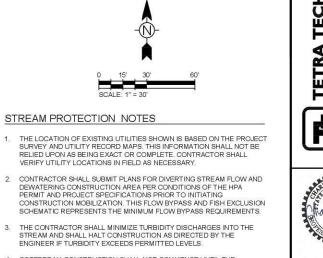


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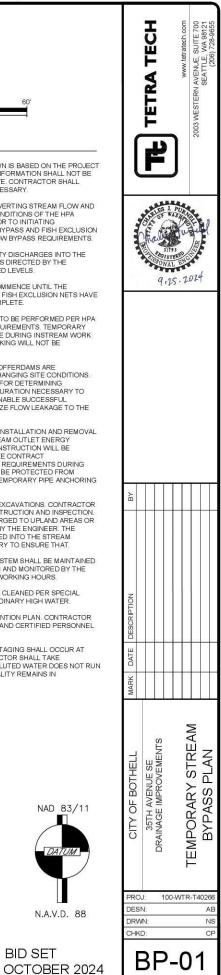
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- 4. COFFERDAM CONSTRUCTION SHALL NOT COMMENCE UNTIL THE UPSTREAM AND DOWNSTREAM TEMPORARY FISH EXCLUSION NETS HAVE BEEN INSTALLED AND FISH REMOVAL IS COMPLETE.
- FISH EXCLUSION AND FISH REMOVAL WORK TO BE PERFORMED PER HPA PERMIT AND PROJECT SPECIFICATIONS REQUIREMENTS. TEMPORARY FISH EXCLUSION NET MUST REMAIN IN PLACE DURING INSTREAM WORK AND COFFERDAM REMOVAL. ELECTROSHOCKING WILL NOT BE PERMITTED.
- 6. SIZE, QUANTITY, AND CONFIGURATION OF COFFERDAMS ARE CONCEPTUAL ONLY AND WILL VARY WITH CHANGING SITE CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING APPROPRIATE SIZE QUANTITY AND CONFIGURATION NECESSARY TO BYPASS FLOW, ISOLATE THE WORK AREA, ENABLE SUCCESSFUL OPERATION OF BYPASS SYSTEM AND MINIMIZE FLOW LEAKAGE TO THE EXTENT NECESSARY FOR CONSTRUCTION.
- TEMPORARY PUMPING OF STREAM DURING INSTALLATION AND REMOVAL OF UPSTREAM COFFERDAM AND DOWNSTREAM OUTLET ENERGY DISSIPATER AND DURING ALL INSTREAM CONSTRUCTION WILL BE REQUIRED EXCEPT DURING HIGH FLOWS. SEE CONTRACT SPECIFICATIONS REGARDING FLOW BYPASS REQUIREMENTS DURING HIGH FLOWS. BYPASS PUMPS AND PIPES TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AT ALL TIMES. TEMPORARY PIPE ANCHORING MAY BE REQUIRED.
- GROUNDWATER MAY BE ENCOUNTERED IN EXCAVATIONS, CONTRACTOR SHALL DEWATER AS NECESSARY FOR CONSTRUCTION AND INSPECTION. ALL DEWATERING WATER SHALL BE DISCHARGED TO UPLAND AREAS OR AN EROSION CONTROL BMP AS APPROVED BY THE ENGINEER. THE WATER SHALL NOT BE DIRECTLY DISCHARGED INTO THE STREAM. EROSION CONTROL BMPS MAY BE NECESSARY TO ENSURE THAT.
- THE FLOW BYPASS AND FISH EXCLUSION SYSTEM SHALL BE MAINTAINED 24 HOURS PER DAY DURING CONSTRUCTION AND MONITORED BY THE CONTRACTOR DURING WORKING AND NON-WORKING HOURS.
- 10. EQUIPMENT FOR INSTREAM WORK SHALL BE CLEANED PER SPECIAL PROVISION 8-02 PRIOR TO WORK BELOW ORDINARY HIGH WATER.
- 11. CONTRACTOR SHALL SUBMIT A SPILL PREVENTION PLAN. CONTRACTOR SHALL HAVE ON SITE OIL ABSORBENT PADS AND CERTIFIED PERSONNEL DURING EQUIPMENT OPERATIONS.
- 12. EQUIPMENT FUELING, MAINTENANCE, AND STAGING SHALL OCCUR AT LEAST 100 FEET FROM THE CREEK. CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT POLLUTED WATER DOES NOT RUN OFF INTO THE CREEK AND THAT WATER QUALITY REMAINS IN COMPLIANCE WITH THE CSWGP.

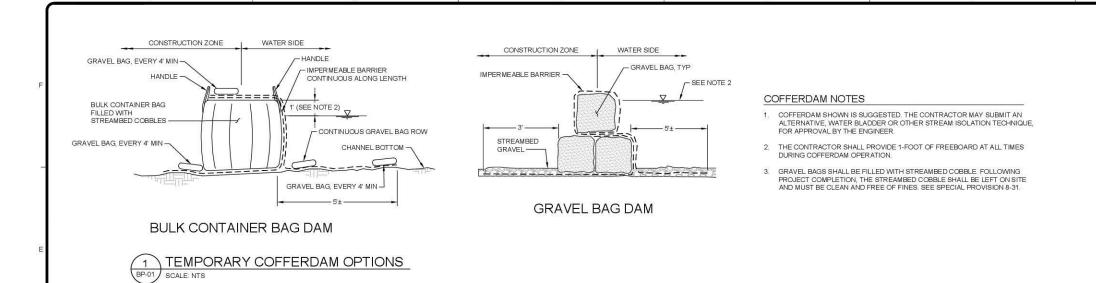


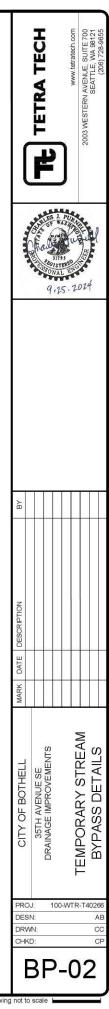
Know what's below. Call before you dig.

Bar Measures 1 inch, otherwise drawing not to scale

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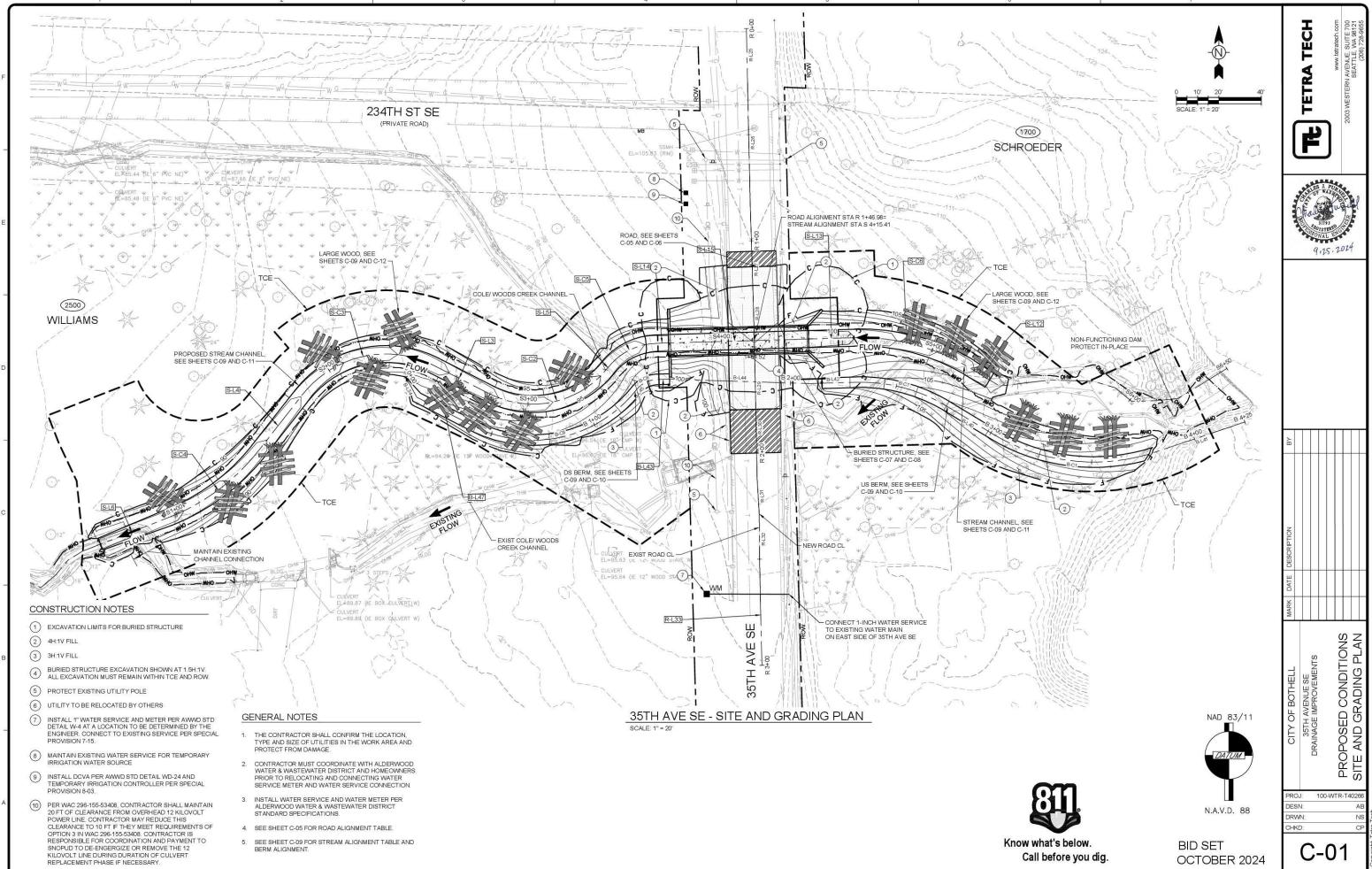
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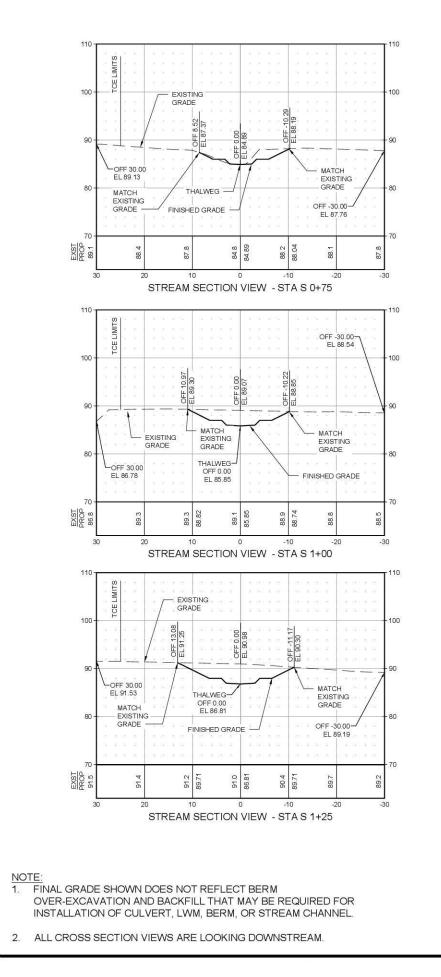
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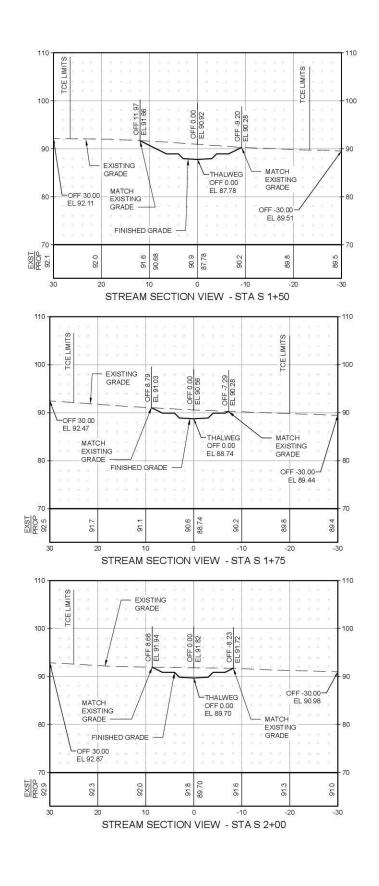
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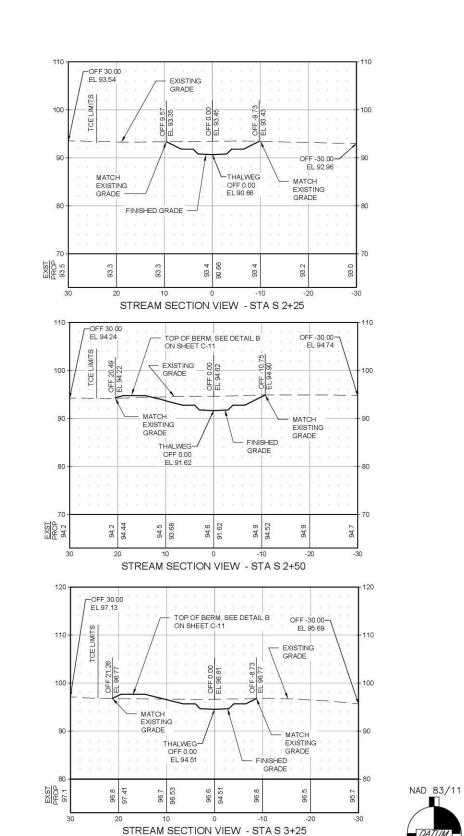
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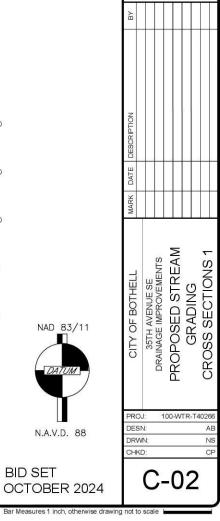
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STREAM CROSS SECTIONS

SCALE: HORIZ: 1"=10' VERT: 1"=10'

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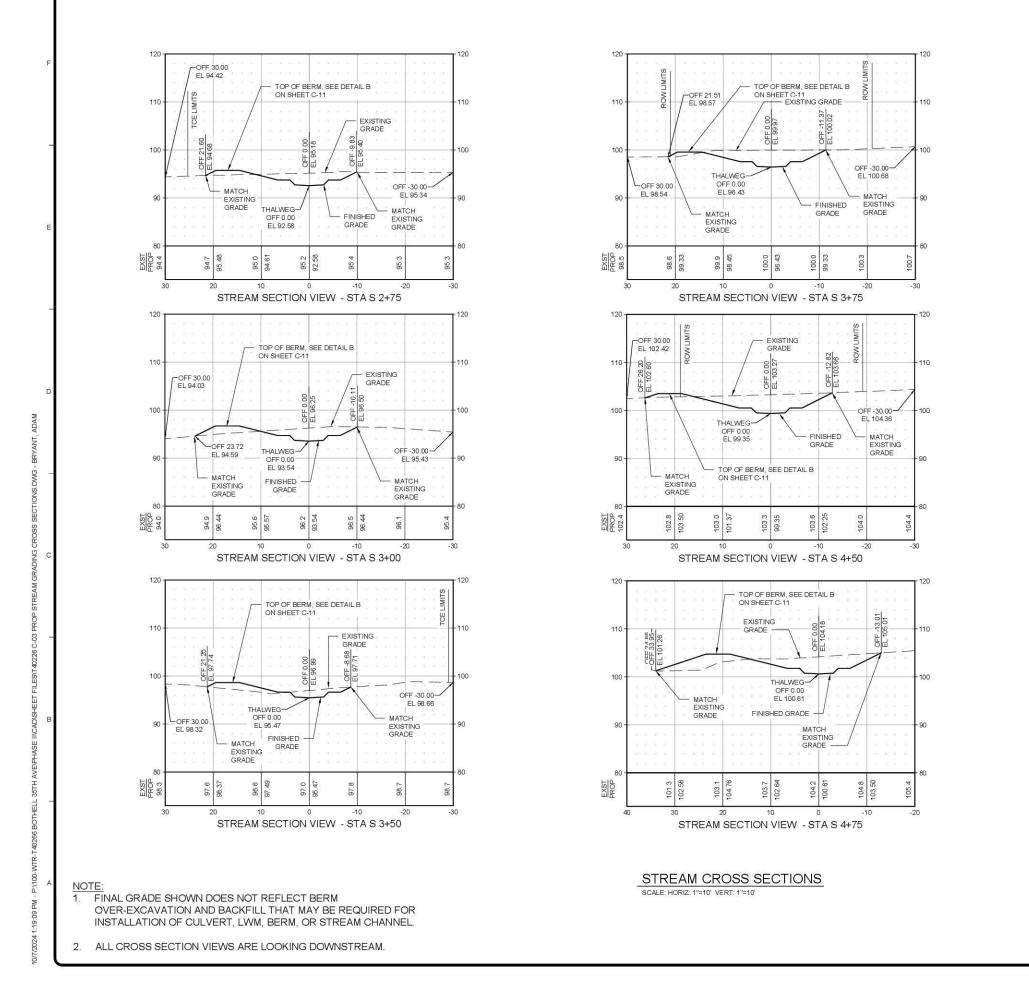
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110

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EXST

45

-OFF 47.50

EL 106.33

FINISHED GRADE

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MATCH

EXISTING

GRADE

OFF 33.76

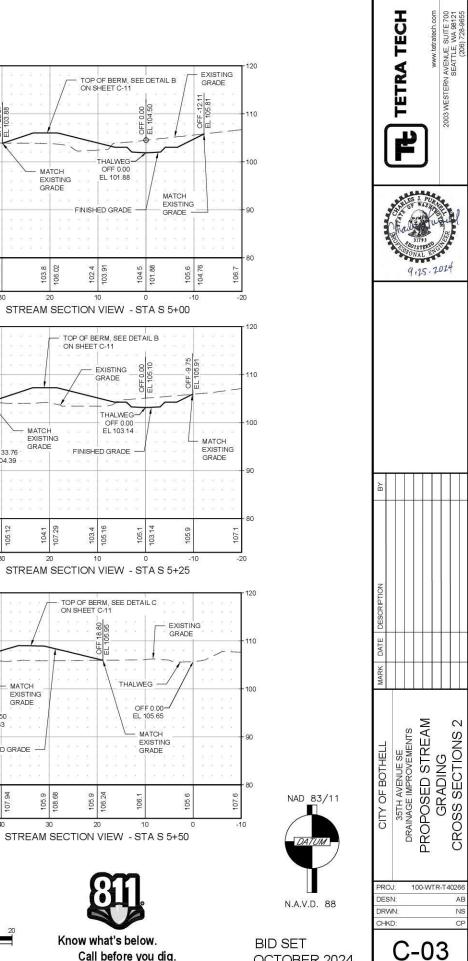
EL 104.39

DEE 31.08

EL 103.89



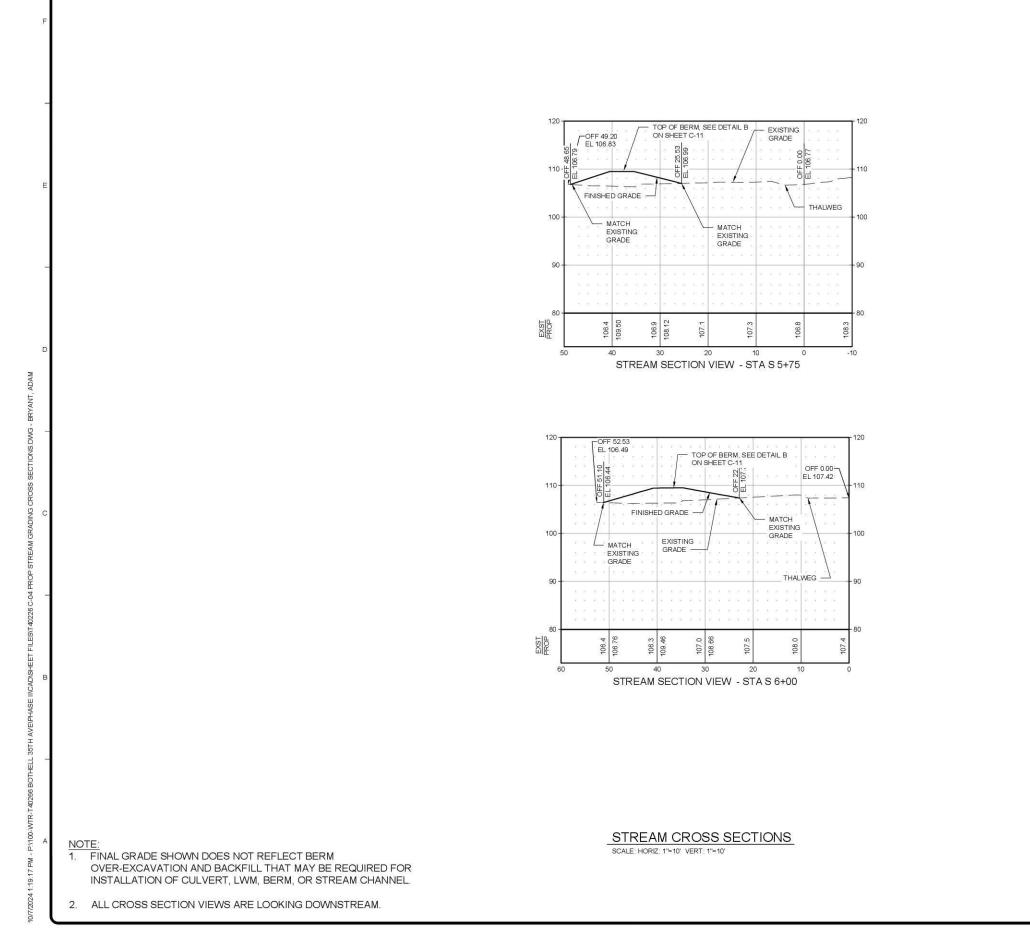


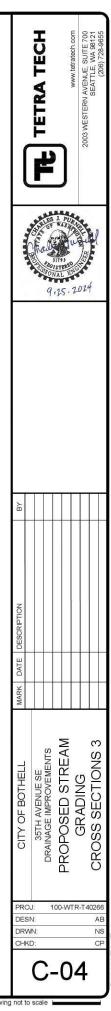


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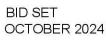




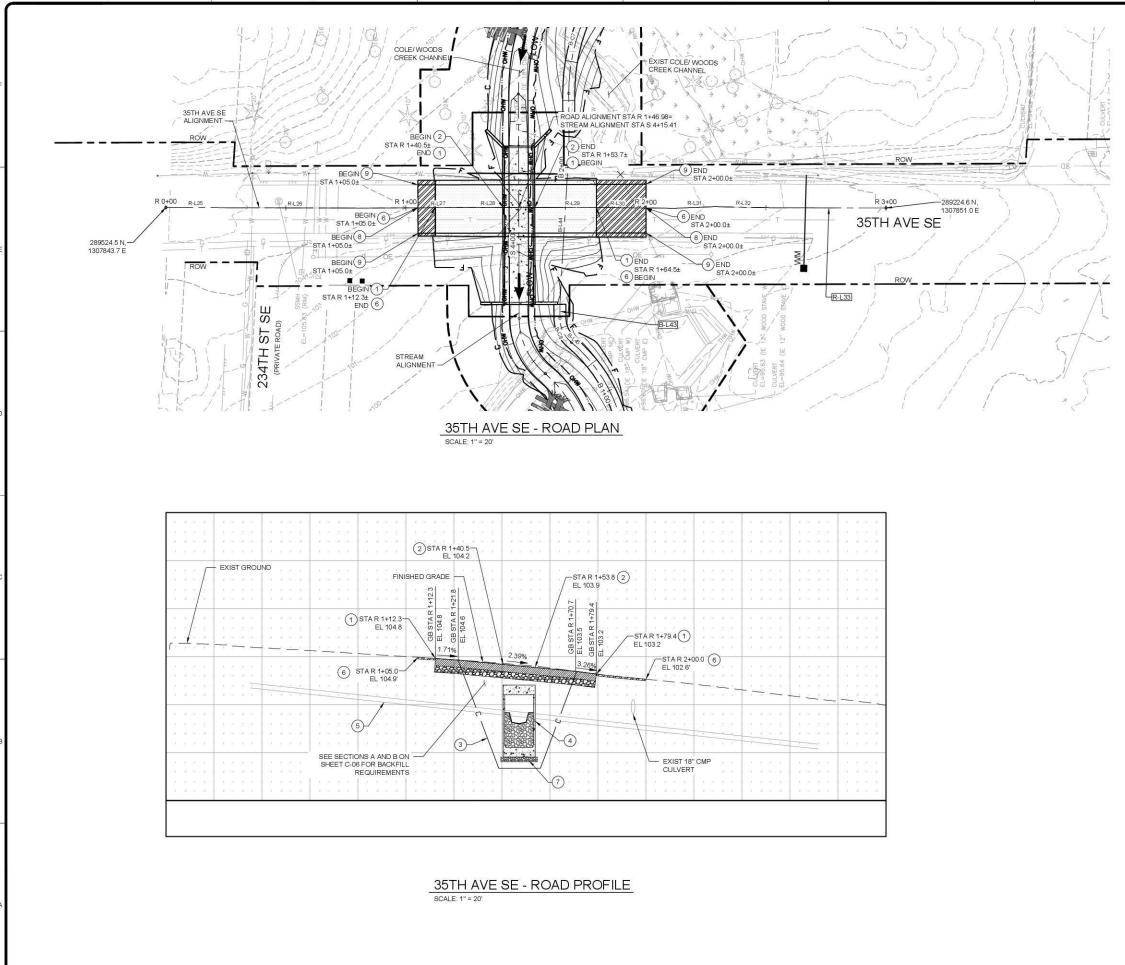


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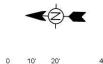














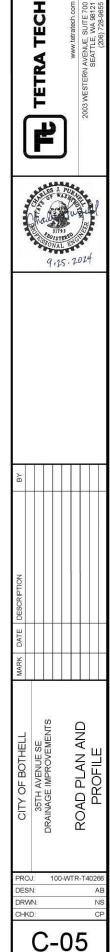
- 1 PAVING. SEE SECTION B, SHEET C-06.
- 2 ROAD SECTION OVER CULVERT. SEE SECTION A, SHEET C-06.
- 3 EXCAVATE AT 1.5H-1V SIDE SLOPE. ALL EARTHWORK MUST REMAIN WITHIN TCE AND ROW.
- (4) BURIED STRUCTURE. SEE SHEETS C-07 AND C-08.
- 5 EXISTING 6" DI WATER MAIN, TO BE RELOCATED BY OTHERS.
- (6) PLANING AND OVERLAY SEE SECTION C, SHEET C-06.
- (7) GRAVEL BACKFILL FOR FOUNDATION CLASS A.
- RAISED PAVEMENT LANE MARKING, BROKEN CENTER LINE PER COB STANDARD DETAIL 372.
- (9) 4" WHITE PAINT LINE PER WSDOT STANDARD PLAN M-20.10-04.

GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONFIRM THE LOCATION, TYPE AND SIZE OF UTILITIES IN THE WORK AREA AND PROTECT FROM DAMAGE.
- 2. STREAM CHANNEL, BERM, AND LWM, SEE SHEETS C-09 TO C-12.

ROAD ALIGNMENT TABLE

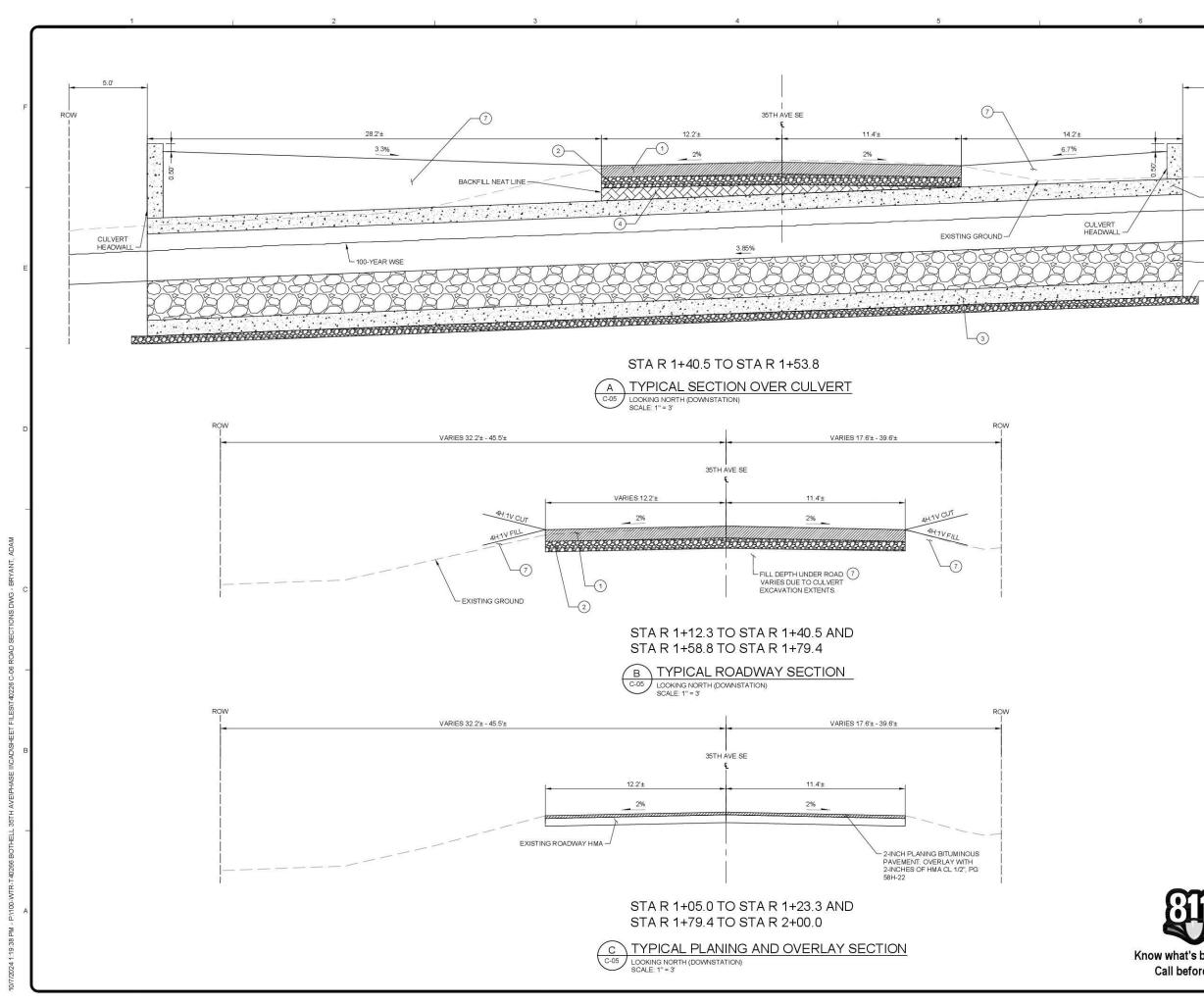
	F	LINE TAI ROAD ALIGI		
LINE #	BEARING	DISTANCE	START POINT	END POINT
R-L25	S1º 14 36'E	25.0'	0+00.0	0+25.0
R-L26	S1º 16' 32'E	57.6'	0+25.0	0+82.6
R-L27	S1º 46' 34'E	51.1'	0+82.6	1+33.7
R-L28	S1º 17' 02'E	20.9'	1+33.7	1+54.5
R-L29	S1º 19' 11'E	29.8'	1+54.5	1+84.3
R-L30	S0° 59' 25'E	27.6'	1+84.3	2+12.0
R-L31	S3º 31' 21'E	16.6'	2+12.0	2+28.6
R-L32	S0° 27' 24'E	23.9'	2+28.6	2+52.5
R-L33	S1º 17' 32'E	47.5'	2+52.5	3+00.0

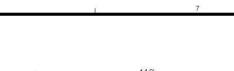


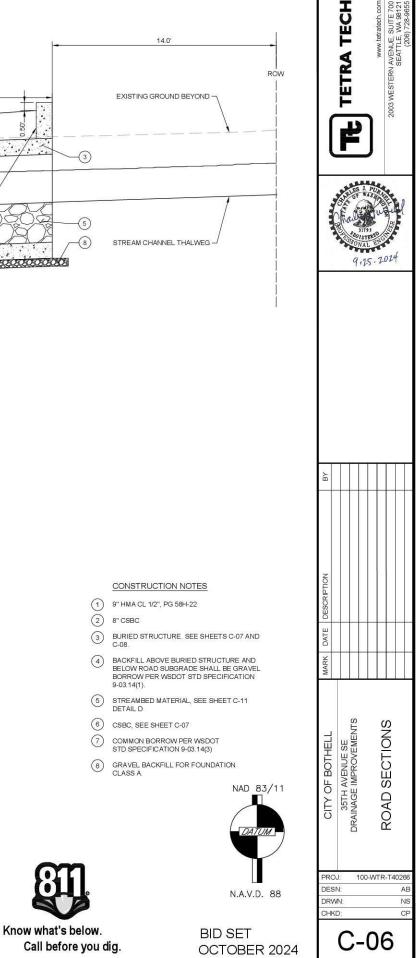
Know what's below. Call before you dig. NAD 83/11

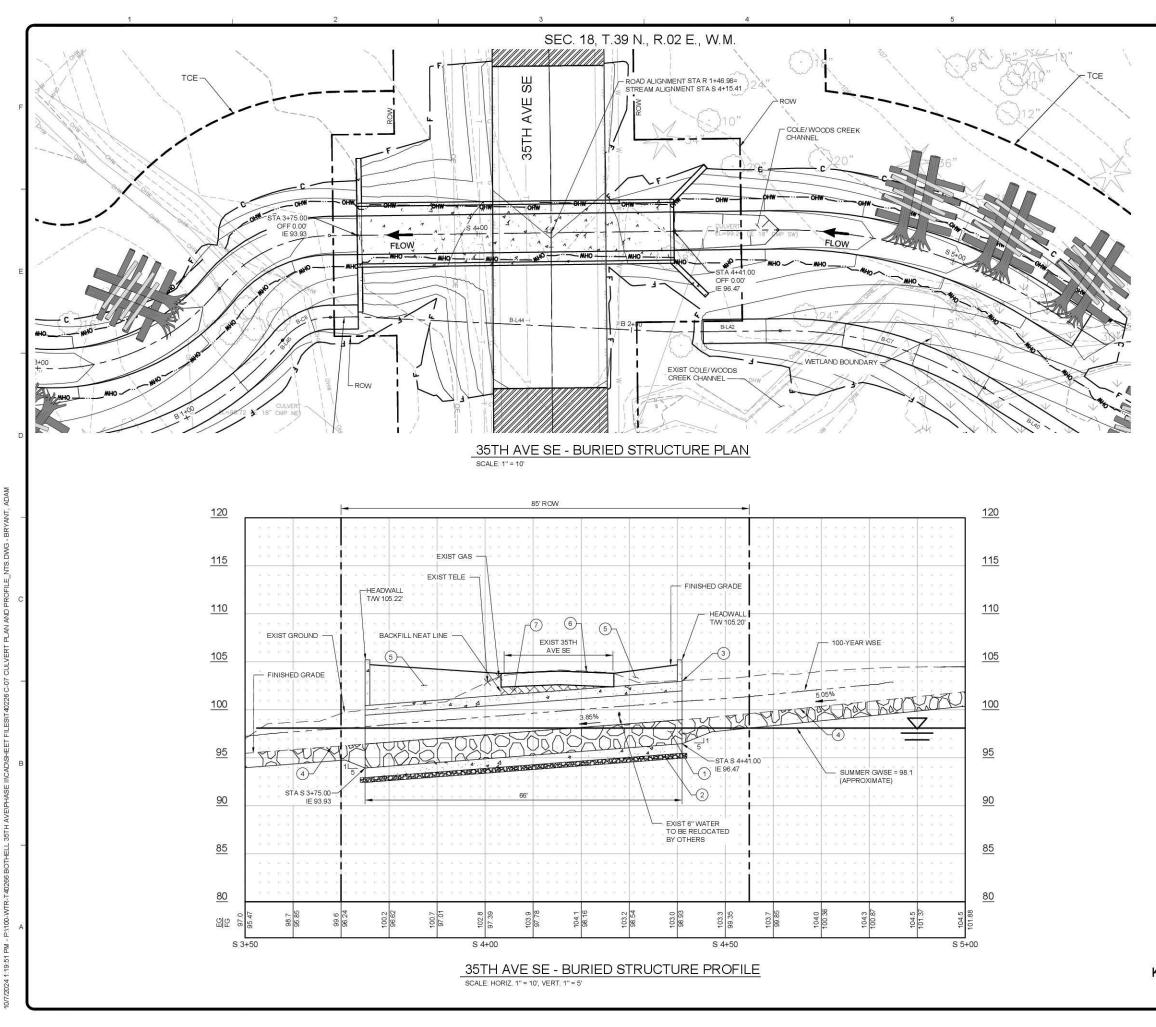
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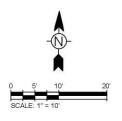


TETRA TECH

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9.25.2024

AVENUE, SEATTLE,



CONSTRUCTION NOTES

- () STREAMBED MATERIAL (18" THICK) SEE SHEET C-11
- 2 GRAVEL BACKFILL FOR FOUNDATION CLASS A
- (3) CONTRACTOR DESIGNED BURIED STRUCTURE, SEE SHEET C-08
- (4) SEE SHEET C-11 FOR STREAM CHANNEL
- 5 COMMON BORROW PER WSDOT STD SPECIFICATION 9-03.14(3).
- 6 SEE SHEET C-05 FOR ROAD PLAN AND PROFILE
- (7) GRAVEL BORROW PER WSDOT STD SPECIFICATION 9-03.14(1).

GENERAL NOTES

- 1. THE CONTRACTOR SHALL CONFIRM THE LOCATION, TYPE AND SIZE OF UTILITIES IN THE WORK AREA AND PROTECT FROM DAMAGE.
- 2. SEE GEOTECH REPORT FOR SUMMER GWSE=98.1' NEAR THE UPSTREAM END OF THE EXISTING CULVERT.





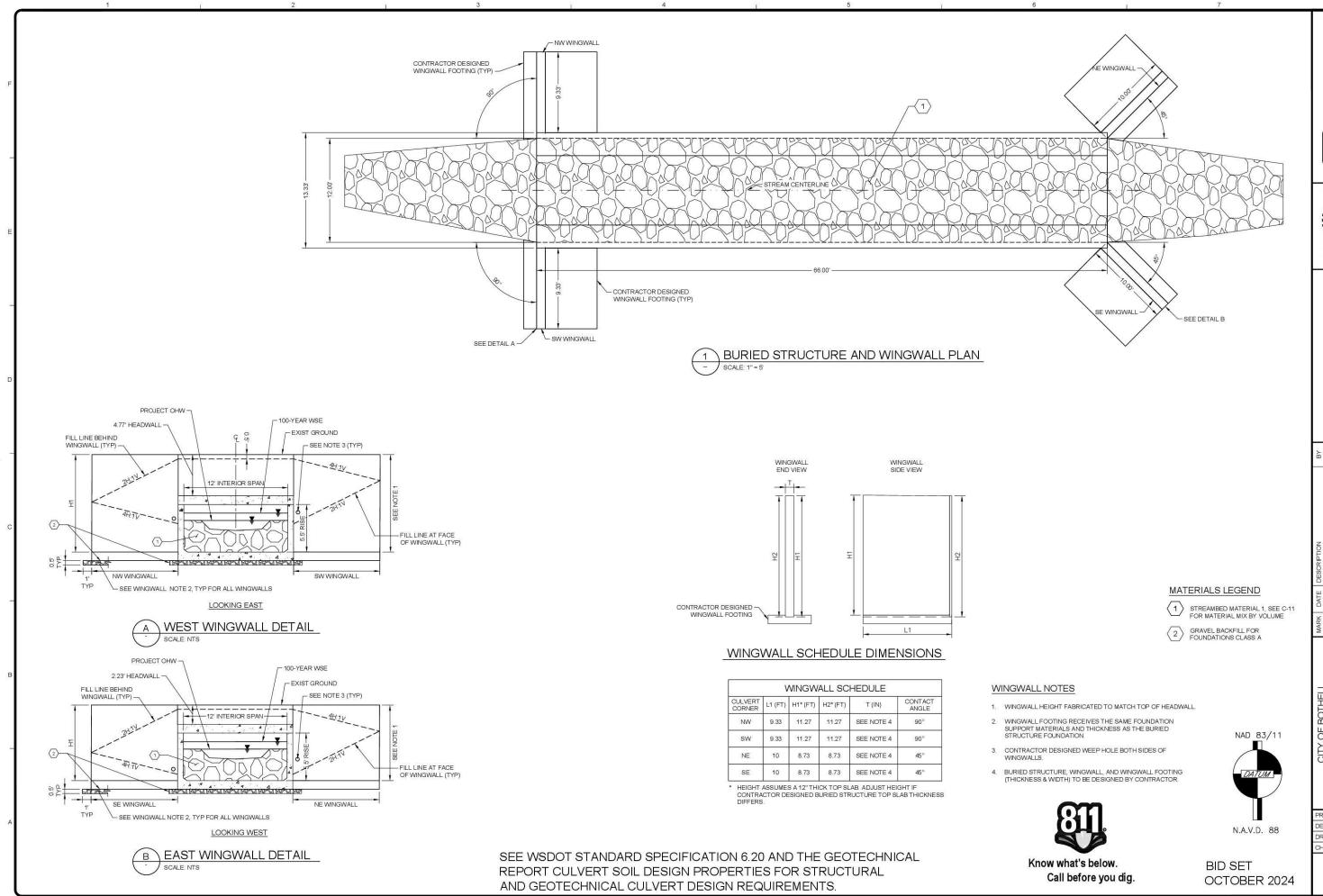
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Bar Measures 1 inch, otherwise drawing not to scale

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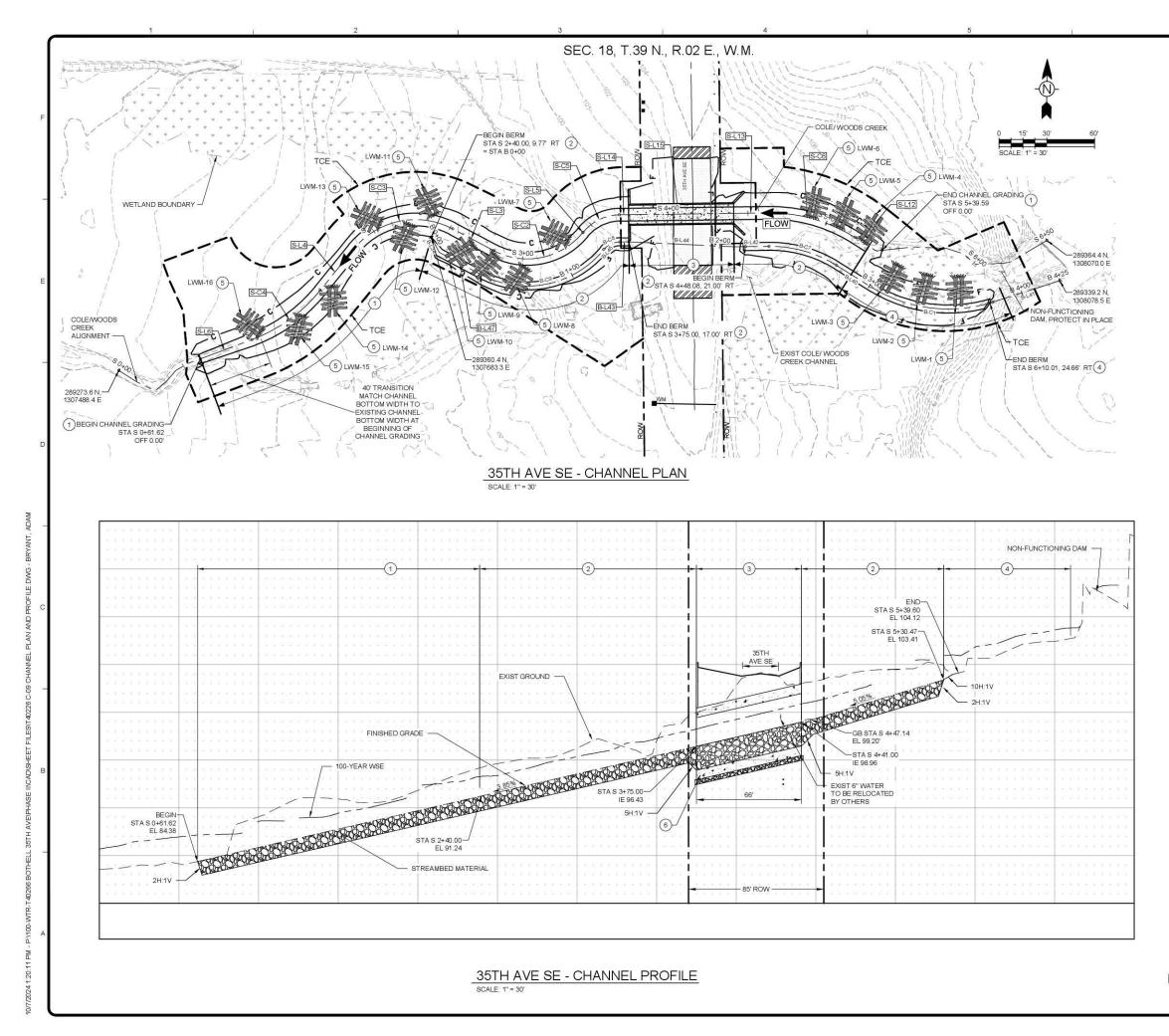
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OCTOBER 2024



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Bar Measures 1 inch, otherwise drawing not to scal



STREAM ALIGNMENT TABLE

	STREAM	LINE TAE	BLE . ALIGNMENT	
LINE #	BEARING	DISTANCE	START POINT	END POINT
S-L3	S62° 58' 58'E	29.2'	2+51.8	2+81.0
S-L4	N38° 04' 02'E	33.5'	1+49.5	1+82.9
S-L5	N38° 15' 07''E	0.1'	3+42.9	3+42.9
S-L6	N68° 38' 07"E	43.7'	0+52.5	0+96.1
S-L12	S58° 49' 36'E	16.1'	5+19.9	5+36.0
S-L13	N88° 21' 48'E	21.6'	4+41.0	4+62.6
S-L14	N88° 23' 48''E	3.8'	3+69.2	3+73.0
S-L15	N88° 21' 48"E	68.0'	3+73.0	4+41.0

CURVE TABLE STREAM CHANNEL ALIGNMENT										
CURVE #	CURVE ANGLE	CHORD LENGTH	RADIUS	START POINT	END POINT					
S-C2	127° 19' 26''	57.1'	45.0'	2+81.0	3+42.9					
S-C3	114° 35' 30"	63.6'	50.0'	1+82.9	2+51.8					
S-C4	57° 17' 45"	52.7'	100.0'	0+96.1	1+49.5					
S-C5	190° 59' 09"	25.4'	30.0'	3+42.9	3+69.2					
S-C6	57° 18' 00"	56.5'	100.0'	4+62.6	5+19.9					

BERM ALIGNMENT TABLE

	В	LINE TAE BERM ALIGN		
LINE #	BEARING	DISTANCE	START POINT	END POINT
B-L34	S28° 27' 12"E	10.8'	0+00.0	0+10.8
B-L40	S58° 49' 36"E	25.2'	2+75.8	3+01.0
B-L41	N71° 24' 45"E	44.1'	3+80.9	4+25.0
B-L42	N88° 21' 48"E	21.8'	2+09.1	2+31.0
B-L43	N88° 23' 27"E	5.8	1+37.2	1+43.0
B-L44	S88° 10' 06"E	66.1'	1+43.0	2+09.1
B-L45	N38° 15' 07"E	0.1'	1+25.7	1+25.8
B-L47	S62° 58' 58"E	29.7'	0+10.8	0+40.5

	2/2012	CURVE TA	and the second second second			
CURVE #	CURVE ANGLE	CHORD LENGTH	RADIUS	START POINT	END POINT	
B-C1	62° 16' 41"	77.4'	92.0'	3+01.0	3+80.9	
B-C7	73° 12' 00''	44.2'	78.3'	2+31.0	2+75.8	
B-C8	440° 44' 12"	11.0'	13.0'	1+25.8	1+37.2	
B-C9	92° 24' 45"	78.7'	62.0'	0+40.5	1+25.7	

CONSTRUCTION NOTES

- 1 STREAM CHANNEL SEE SECTION A, SHEET C-11.
- (2) STREAM CHANNEL WITH BERM. SEE SECTION B, SHEET C-11.
- (3) STREAM CHANNEL IN BURIED STRUCTURE. SEE SECTION D, SHEET C-11.
- (4) BERM. SEE SECTION C, SHEET C-11.
- 5 LWM STRUCTURE, SEE SHEET C-12.
- 6 BURIED STRUCTURE, SEE SHEETS C-07 AND C-08.

GENERAL NOTES

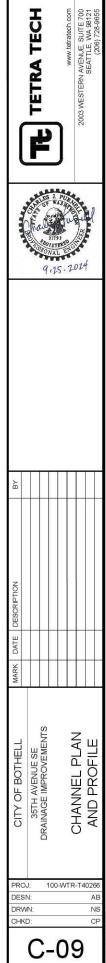
- 1. THE CONTRACTOR SHALL CONFIRM THE LOCATION, TYPE AND SIZE OF UTILITIES IN THE WORK AREA AND PROTECT FROM DAMAGE.
- 2. ROAD, SEE SHEETS C-05 AND C-06.

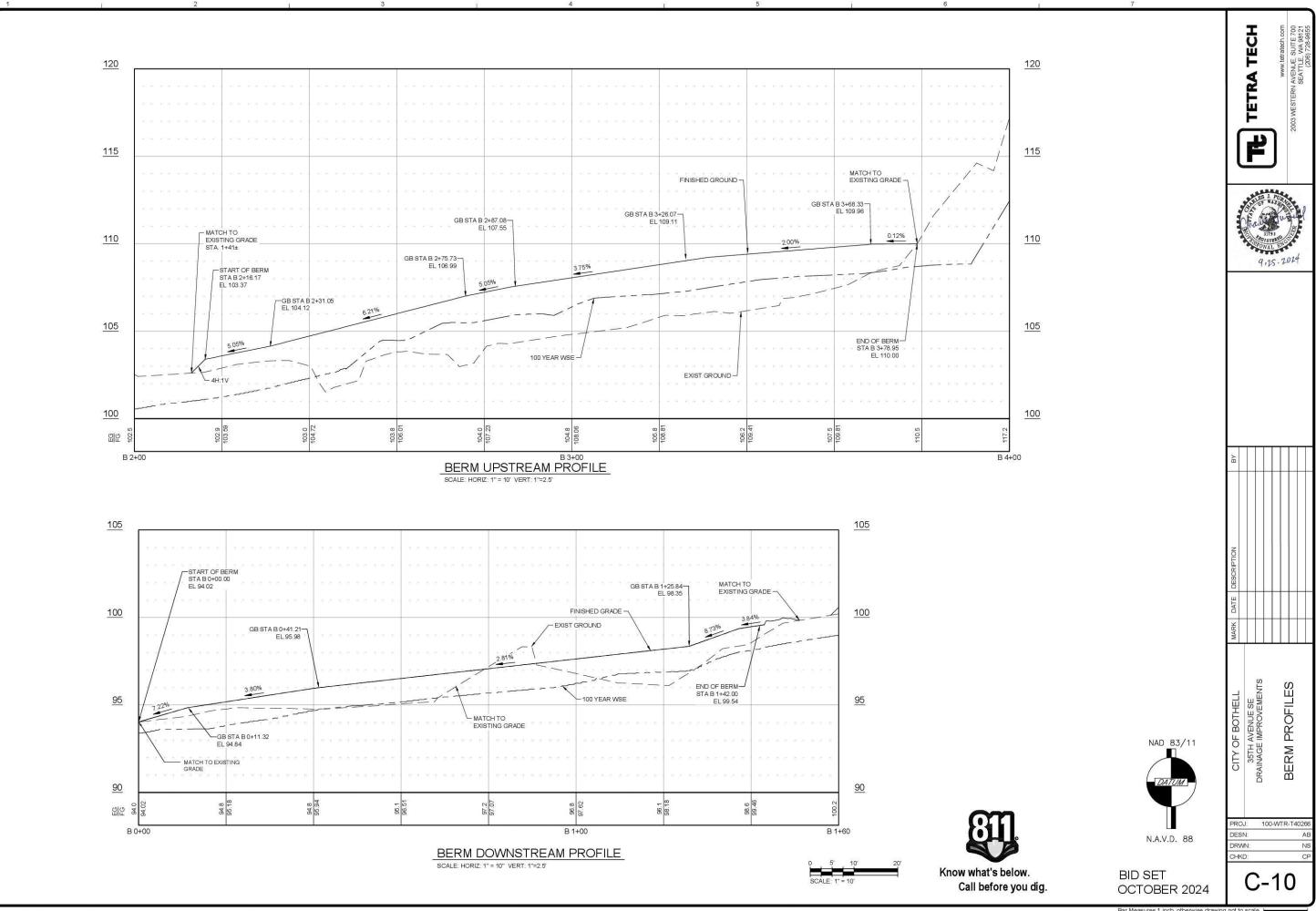


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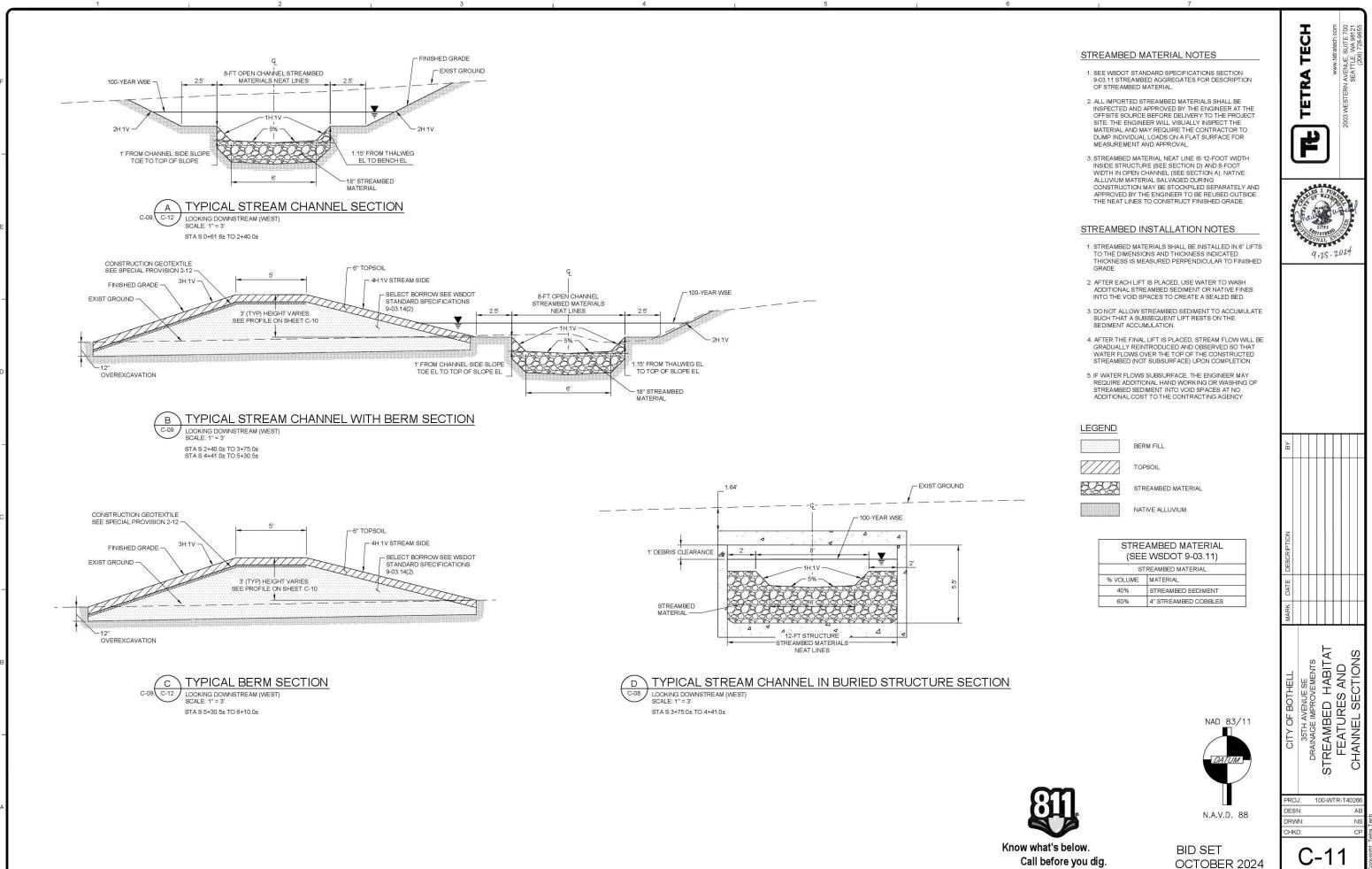




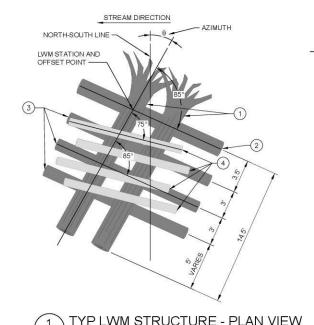




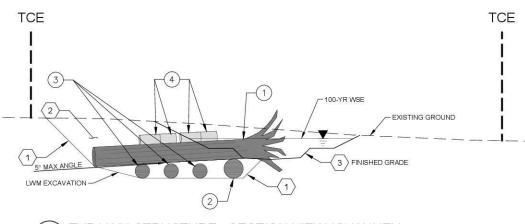
Bar Measures 1 inch, otherwise drawing not to scale

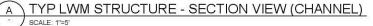


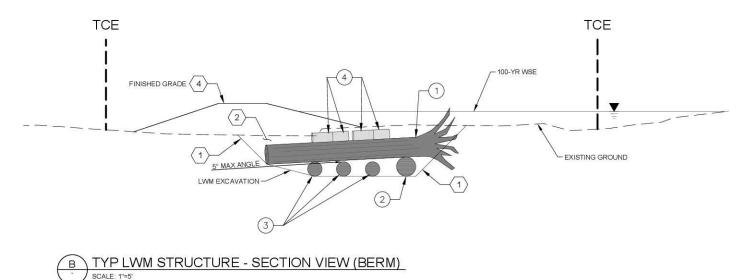
Call before you dig.











MATERIAL SCHEDULE (PER STRUCTURE)

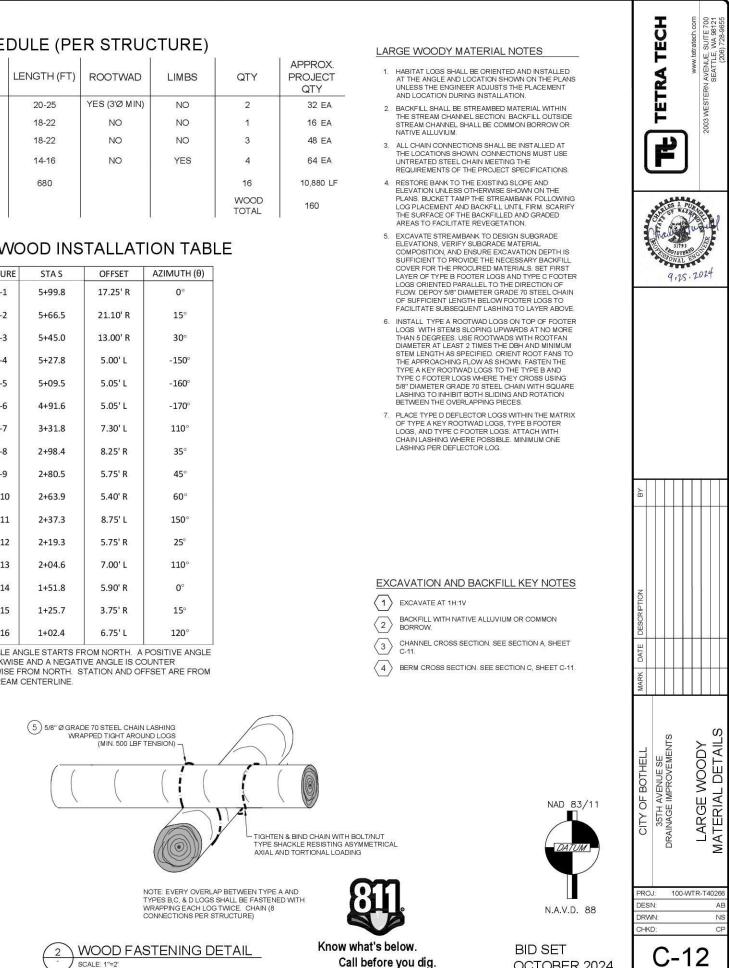
KEYNOTE #	TYPE	DBH (IN)	LENGTH (FT)	ROOTWAD	LIMBS	QTY	APPROX. PROJECT QTY
1	A - KEY ROOTWAD LOGS	24+	20-25	YES (3'Ø MIN)	NO	2	32 EA
2	B - FOOTER LOGS	20-28	18-22	NO	NO	1	16 EA
3	C - FOOTER LOGS	16-22	18-22	NO	NO	3	48 EA
4	D - DEFLECTOR LOGS	8-12	14-16	NO	YES	4	64 EA
5	CHAIN LASHING		680			16	10,880 LF
						WOOD TOTAL	160

LARGE WOOD INSTALLATION TABLE

STRUCTURE	STA S	OFFSET	AZIMUTH (θ)		
LWM-1	5+99.8	17.25' R	0°		
LWM-2	5+66.5	21.10' R	15°		
LWM-3	5+45.0	13.00' R	30°		
LWM-4	5+27.8	5.00' L	-150°		
LWM-5	5+09.5	5.05' L	-160°		
LWM-6	4+91.6	5.05' L	-170° 110° 35° 45°		
LWM-7	3+31.8	7.30' L			
LWM-8	2+98.4	8.25' R			
LWM-9	2+80.5	5.75' R			
LWM-10	2+63.9	5.40' R	60°		
LWM-11	2+37.3	8.75' L	150°		
LWM-12	2+19.3	5.75' R	25°		
LWM-13	2+04.6	7.00' L	110°		
LWM-14	1+51.8	5.90' R	0°		
LWM-15	1+25.7	3.75' R	15°		
LWM-16	1+02.4	6.75' L	120°		

THE TABLE ANGLE STARTS FROM NORTH. A POSITIVE ANGLE IS CLOCKWISE AND A NEGATIVE ANGLE IS COUNTER CLOCKWISE FROM NORTH. STATION AND OFFSET ARE FROM THE STREAM CENTERLINE.

/ SCALE: 1"=2"



Call before you dig.

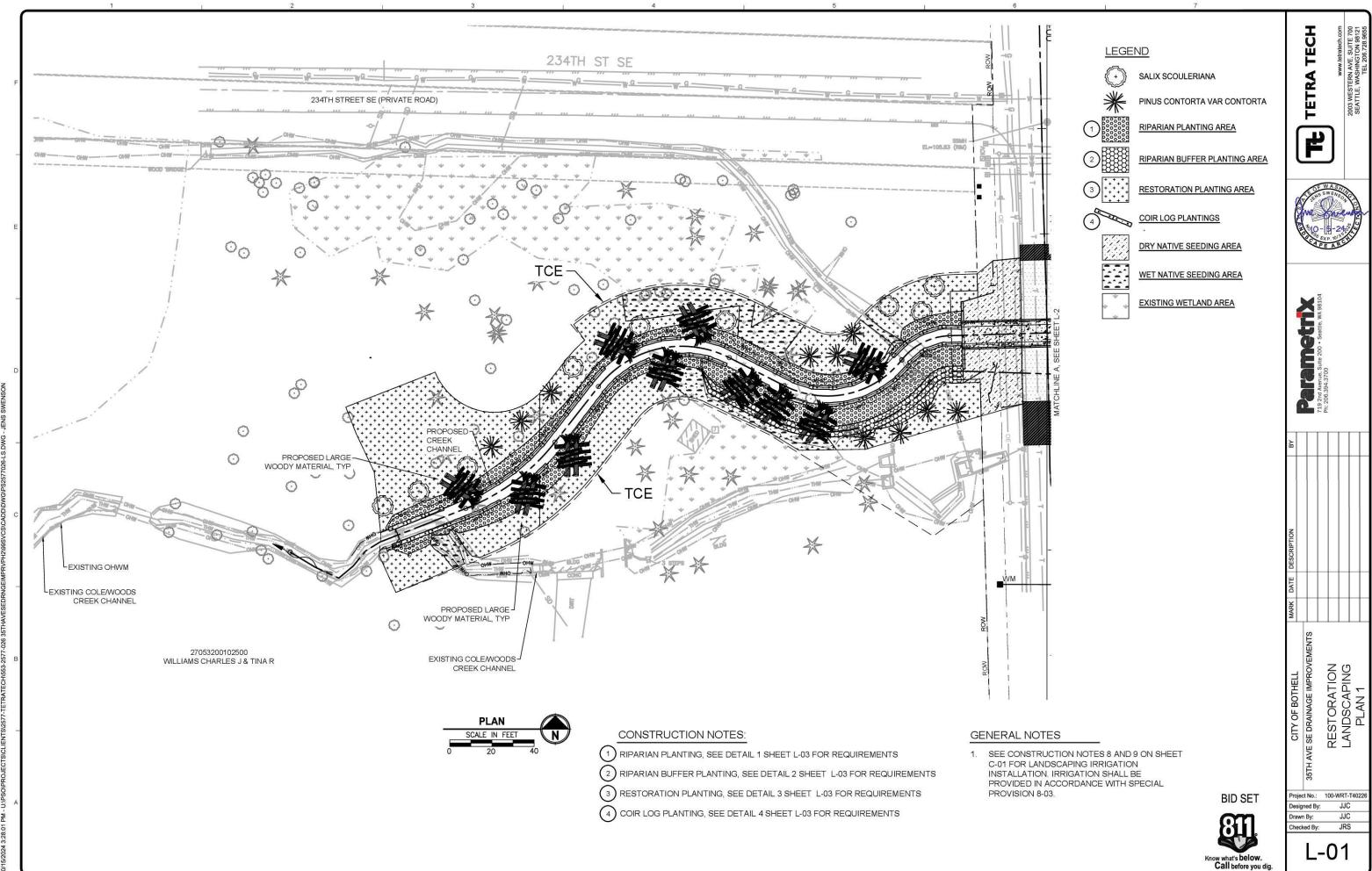
Provided to Builders Exchange of WA, Inc. For usage Conditions Agreement see www.bxwa.com - Always Verify Scal



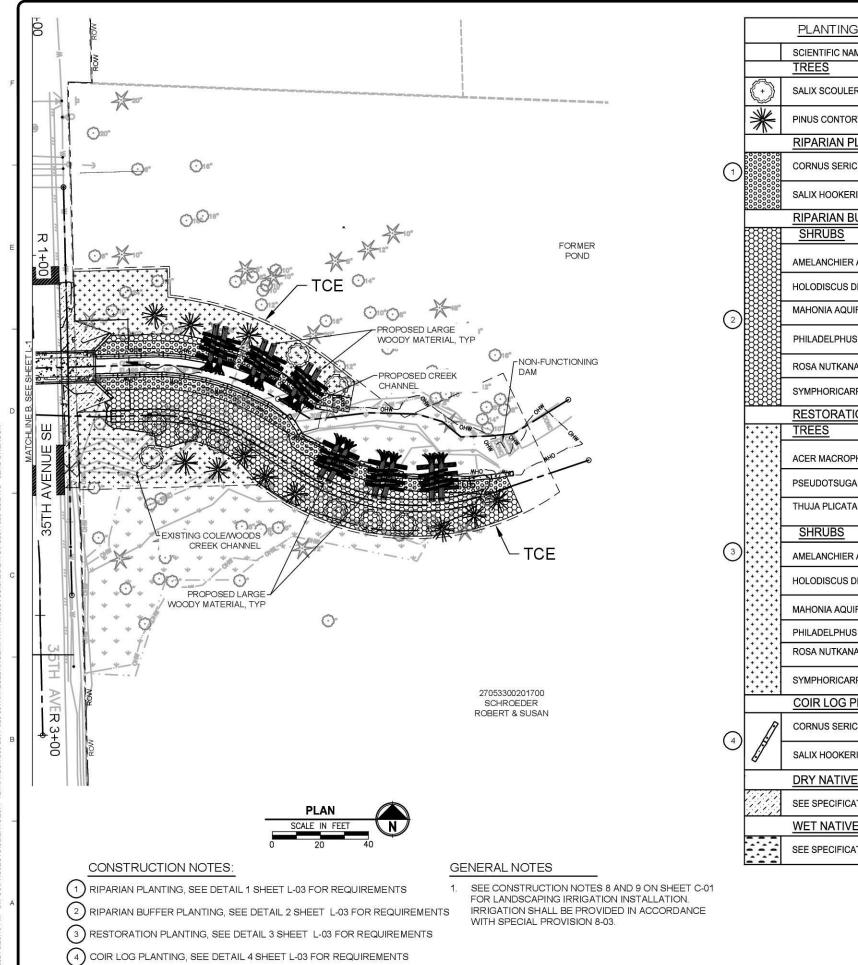
Bar Measures 1 inch, otherwise drawing not to scale

OCTOBER 2024

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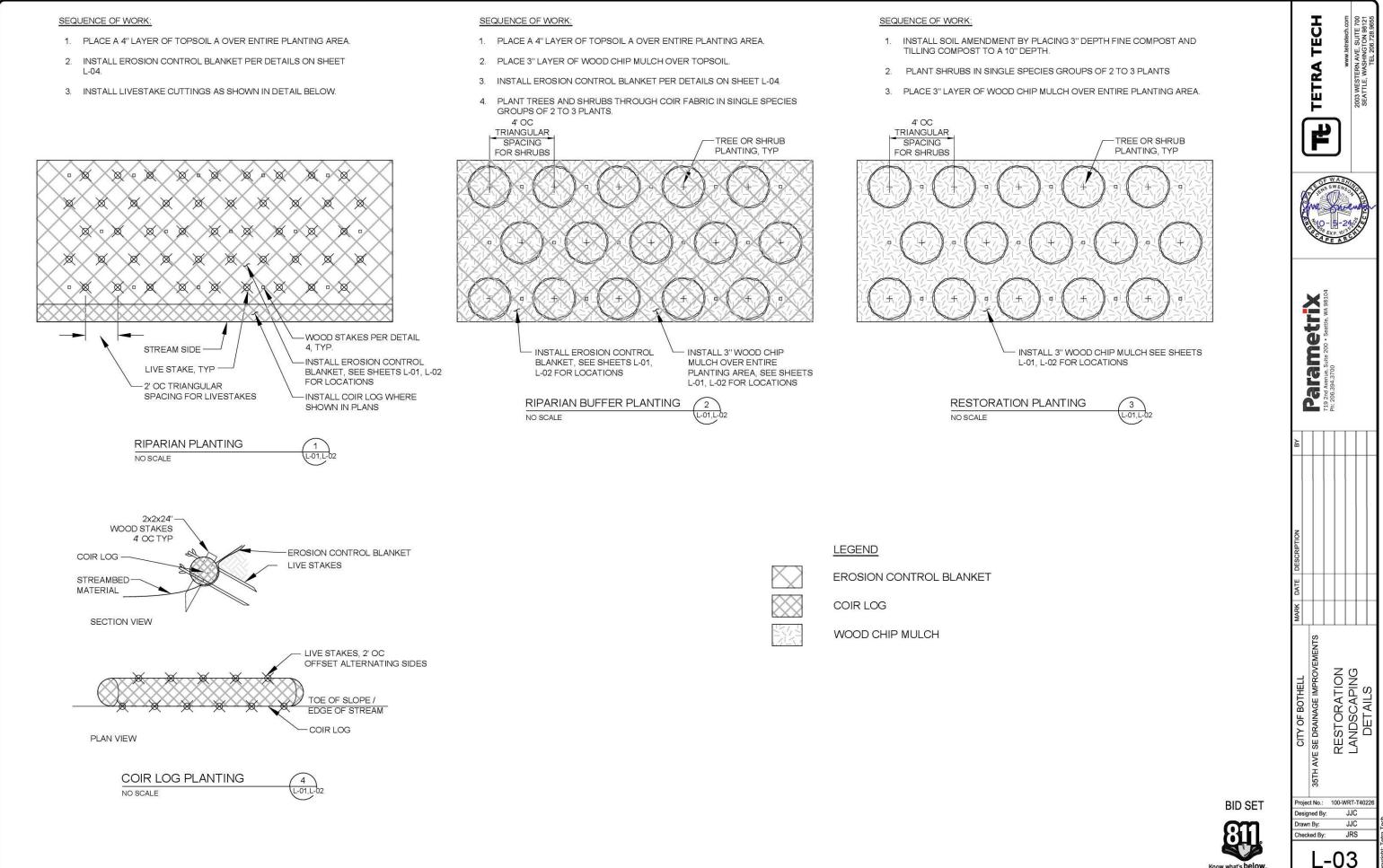
	5 ا			6					
	PLANTING LEGEND AND N	ATERIALS LIST:						H	th.com
	SCIENTIFIC NAME	COMMON NAME	QTY	MIN SIZE / CONDITION	SPACING	NOTES		Ĕ	www.tetratech.com 2003 WESTERN AVE. SUITE 700
	TREES							4	WWW
(\cdot)	SALIX SCOULERIANA	SCOULERS WILLOW	18	3/4" CAL / #5 CONT	Per Plan			TETRA TECH	MECTE
₩	PINUS CONTORTA VAR CONTORTA	SHORE PINE	21	3' TALL / #5 CONT	Per Plan			Ë	CUUC
	RIPARIAN PLANTING AREA				ant a			╏┹	ิจ เ
	CORNUS SERICEA	RED OSIER DOGWOOD	877	30" x 1/2" / LIVESTAKE	2' OC		į,		ע∣
	SALIX HOOKERIANA	HOOKER'S WILLOW	877	30" x 1/2" / LIVESTAKE	2' OC			OF	WASHIN
	RIPARIAN BUFFER PLANTING	AREA						AT LENS	SWENSON
	<u>SHRUBS</u>	1	<u> </u>					E ZIO	- and
	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	33	12" / #1 CONT	4' OC			A CAL	EXP. 1013
	HOLODISCUS DISCOLOR	OCEANSPRAY	33	12" / #1 CONT	4' OC				
	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	76	12" / #1 CONT	4' OC				đ
	PHILADELPHUS LEWISII	MOCK ORANGE	33	12" / #1 CONT	4' OC				1.13 zna Avenue, suite zou • Seattle, wA 95104 Ph: 206.394.3700
	ROSA NUTKANA	NOOTKA ROSE	77	12" / #1 CONT	4' OC			etr	Seame
	SYMPHORICARPOS ALBUS	SNOWBERRY	77	12" / #1 CONT	4' OC			Ä	
	RESTORATION PLANTING				2			Parameter Stite 200	3700
	TREES								10 Ave.
· · · · · · · · · · · · · · · · · · ·	ACER MACROPHYLLUM	BIG-LEAF MAPLE	35	48" / #2 CONT	12' OC				Ph: 20
* * * *	PSEUDOTSUGA MENZIESSI	DOUGLAS-FIR	36	18" / #2 CONT	12' OC		~	П	
****	THUJA PLICATA	WESTERN RED CEDAR	35	18" / #2 CONT	12' OC		ß	$\left \right $	
****	SHRUBS								
	AMELANCHIER ALNIFOLIA	WESTERN SERVICEBERRY	85	12" / #1 CONT	4' OC				
* * * *	HOLODISCUS DISCOLOR	OCEANSPRAY	127	12" / #1 CONT	4' OC		7		
****	MAHONIA AQUIFOLIUM	TALL OREGON GRAPE	85	12" / #1 CONT	4' OC		DESCRIPTION		
	PHILADELPHUS LEWISII	MOCK ORANGE	127	12" / #1 CONT	4' OC		DESC		
· · · · · ·	ROSA NUTKANA	NOOTKA ROSE	212	12" / #1 CONT	4' OC		DATE		
* * * *	SYMPHORICARPOS ALBUS	SNOWBERRY	212	12" / #1 CONT	4' OC		MARK		
	COIR LOG PLANTINGS						-		
[]	CORNUS SERICEA	RED OSIER DOGWOOD	196	30" x 1/2" / LIVESTAKE	2' OC			MENT	
[]	SALIX HOOKERIANA	HOOKER'S WILLOW	196	30" x 1/2" / LIVESTAKE	2' OC		;	011 OF BOTHELL 35TH AVE SE DRAINAGE IMPROVEMENTS	RESTORATION
	DRY NATIVE SEED	1			1 1				ADI
	SEE SPECIFICATIONS FOR SEED MIX	AND OTHER REQUIREMENTS						ZAINA(TOF
	WET NATIVE SEED						AEC.	SE DF	RES
	SEE SPECIFICATIONS FOR SEED MIX	AND OTHER REQUIREMENTS						H AVE	LL _
								35T	
						BID SET	De	oject No.: esigned By:	: JJC
						ണ	Dr	rawn By:	JJC

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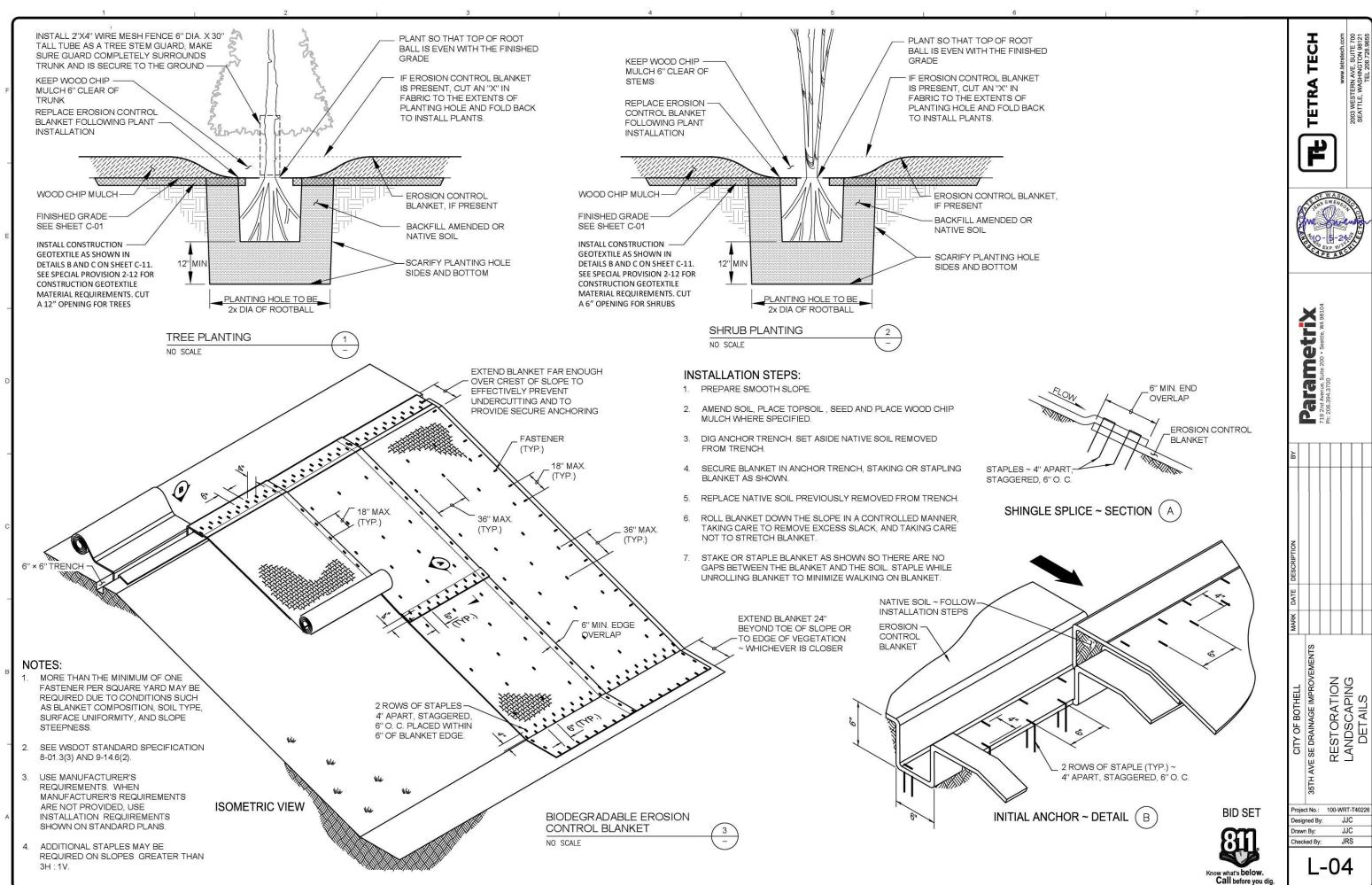
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SUG

Know what's below. Call before you dig.



Know what's below. Call before you dig.



r Measures 1 inch