April 10th, 2024

CHELAN COUNTY NATURAL RESOURCE DEPARTMENT EAGLE CREEK CULVERT REPLACEMENT PROJECT

ADDENDUM NO. 2

To the Contractors, Subcontractors, Planholders and Suppliers:



The following items contain additions, deletions, or modifications to the Plans and/or Specifications. This Addendum forms as a part of the Contract Documents. All updated contract Documents can be found at <u>https://www.co.chelan.wa.us/natural-resources/pages/current-opportunities</u>.

Bidders must acknowledge receipt of this Addendum on the Bid Proposal Declaration within the Bid Package.

A. FINAL CONTRACT DRAWINGS

A.1 Revised Final Contract Drawings; Sheet 2 and Sheet 24

The Legend on Sheet 2 is updated to reflect the addition of "Inactive Buried Telephone Line." Sheet 24 is updated to reflect the presence of an inactive buried telephone line that is currently present at the Morton Site. This shall be cut and left in place if encountered during construction.

A copy of the revised Contract Drawings/ Final Plan Set is attached as Appendix A to this addendum.

END OF ADDENDUM NO. 2

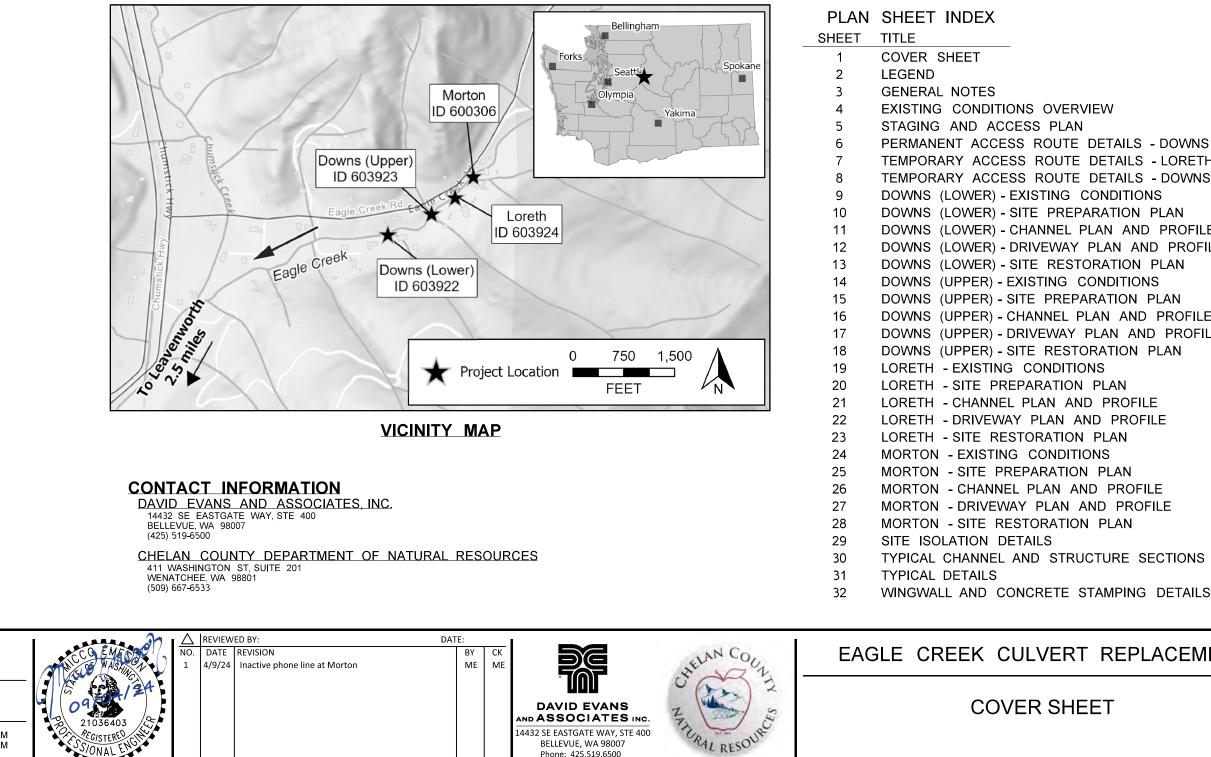
Hannah Pygott, Sr. Natural Resource Specialist Chelan County Natural Resources Department

APPENDIX A: REVISED CONTRACT DRAWINGS WHICH INCLUDE REVISIONS TO SHEETS 2 & 24.

EAGLE CREEK CULVERT REPLACEMENT PROJECT

Addendum NO. 2

EAGLE CREEK CULVERT REPLACEMENT PROJECT CHELAN COUNTY DEPARTMENT OF NATURAL RESOURCES



L4432 SE EASTGATE WAY, STE 400

BELLEVUE, WA 98007

Phone: 425.519.6500

SEC: 34

TWP: 25N

RGE: 18E

VERT: NTS

DRAWN BY

DATUM: NAVD 88 HOR: NTS

DESIGNED BY MAEM

CHECKED BY: GSL

MAEM

COVER SHEET

SHEET NO.

FILE NO.

EAGLE CREEK CULVERT REPLACEMENT

CHEC-0021

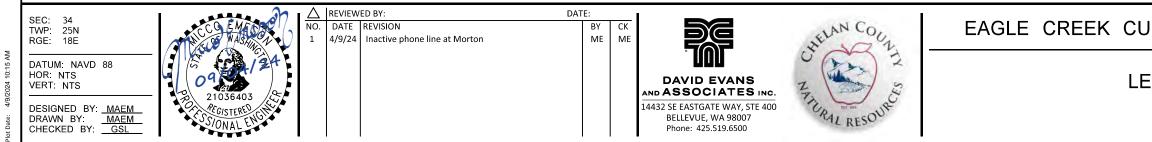
1 OF 32

PROJECT NO

PERMANENT ACCESS ROUTE DETAILS - DOWNS (UPPER) TEMPORARY ACCESS ROUTE DETAILS - LORETH TO MORTON TEMPORARY ACCESS ROUTE DETAILS - DOWNS (LOWER) TO DOWNS (UPPER) DOWNS (LOWER) - SITE PREPARATION PLAN DOWNS (LOWER) - CHANNEL PLAN AND PROFILE DOWNS (LOWER) - DRIVEWAY PLAN AND PROFILE DOWNS (LOWER) - SITE RESTORATION PLAN DOWNS (UPPER) - SITE PREPARATION PLAN DOWNS (UPPER) - CHANNEL PLAN AND PROFILE DOWNS (UPPER) - DRIVEWAY PLAN AND PROFILE DOWNS (UPPER) - SITE RESTORATION PLAN MORTON - DRIVEWAY PLAN AND PROFILE TYPICAL CHANNEL AND STRUCTURE SECTIONS

LEGEND

		EXISTING 5-FOOT CONTOUR		PROPOSED 5-FOOT CONTOUR		PROPOSED PAVEMENT
		EXISTING 1-FOOT CONTOUR		PROPOSED 1-FOOT CONTOUR		PROPOSED GRAVEL DRIVEWAY
	OHW	EXISTING ORDINARY HIGH WATER		PROPOSED DITCH		PROPOSED DRIVEWAY SURFACING REMOVAL
- BF —	— — BF — — BF —	EXISTING BURIED FIBER OPTIC LINE	- CG CG CG	PROPOSED CLEARING LIMITS	03930029930 0990000000000000000000000000	PROPOSED STREAMBED MATERIAL
- BP -	— — BP — — BP —	EXISTING BURIED POWER LINE	– CUT ———— CUT —	PROPOSED LIMITS OF EXCAVATION		PROPOSED SITE RESTORATION
		INACTIVE BURIED TELEPHONE LINE	- FILL FILL	PROPOSED LIMITS OF FILL PLACEMENT		PROPOSED BIODEGRADABLE EROSION CONTROL BLANKET AND LIVE CUTTINGS
		EXISTING EAGLE CREEK ROAD CENTERLINE	——— онш —	PROPOSED ORDINARY HIGH WATER		PROPOSED STAGING AREAS
-x	-xxxx-	EXISTING FENCE	100 YR —	PROPOSED 100-YEAR FLOODPLAIN EXTENTS	Ð	EXISTING BORE HOLE
		EXISTING DRIVEWAY CENTERLINE	1+00 +	PROPOSED ROADWAY ALIGNMENT		PROPOSED BOULDER CLUSTER
	VV	EXISTING BRUSH LINE	- SAW SAW	PROPOSED SAWCUT	(IRR)	EXISTING IRRIGATION BOX
	1+00 	EXISTING STREAM ALIGNMENT	******	TEMPORARY COFFERDAM	$\prec \hat{\iota} \succ$	EXISTING TELEPHONE BOX
	,	EXISTING CULVERT	— • — • — • -	TEMPORARY FISH BLOCK NETS		EXISTING UTILITY BOX
			- HVF HVF HVF -	TEMPORARY HIGH-VISIBILITY CONSTRUCTION FENCE	P	TEMPORARY BYPASS PUMP
			- D D	TEMPORARY DRAINAGE LINE	D	TEMPORARY ENERGY DISSIPATOR
					#	CONSTRUCTION NOTE SEE SHEET 3
					# #	— DETAIL NUMBER — SHEET NUMBER
					#	DETAIL NUMBER



Maer Date: By: I Plot

ILVERT REPLACEMENT	PROJECT NO. CHEC-0021
GEND	FILE NO.
	SHEET NO. 2 OF 32

GENERAL NOTES

- 1. THESE CONSTRUCTION PLANS HAVE BEEN PREPARED FOR THE EXCLUSIVE USE OF CHELAN COUNTY NATURAL RESOURCES DEPARTMENT, HEREAFTER REFERRED TO THE "OWNER", AND THEIR DULY APPOINTED DELEGATES, SUCH AS THE CONTRACTOR(S) SELECTED TO PERFORM THE WORK.
- 2. DAVID EVANS AND ASSOCIATES, INC. HEREAFTER REFERRED TO AS THE "ENGINEER" IS RESPONSIBLE FOR THE PREPARATION OF THESE CONSTRUCTIONS PLANS AND ASSOCIATED SPECIAL PROVISIONS THE ENGINEER WILL NOT BE RESPONSIBLE OR LIABLE FOR UNAUTHORIZED USE OR ALTERATION OF THESE CONSTRUCTION PLANS OR ASSOCIATED SPECIAL PROVISIONS. ANY ALTERATION TO THESE PLANS OR THE ASSOCIATED SPECIAL PROVISIONS SHALL REQUIRE EXPLICIT WRITTEN PERMISSION FROM THE ENGINEER.
- 3. MINOR MODIFICATIONS ARE EXPECTED TO ACCOMMODATE SITE CONDITIONS SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK AND SHALL BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- 4. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND FURTHER AGREES THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING
- 5. ALL WORK SHALL CONFORM TO THE SPECIAL PROVISIONS PREPARED FOR THIS PROJECT. MATERIAL AND WORKMANSHIP NOT EXPLICITLY MENTIONED IN THE SPECIAL PROVISIONS SHALL BE AS DESCRIBED IN THE MOST CURRENT EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" PUBLISHED BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT). THE CONTRACTOR IS RESPONSIBLE FOR HAVING COPIES OF THESE CONSTRUCTION PLANS. THE SPECIAL PROVISIONS, AND THE CURRENT EDITION OF THE WSDOT STANDARD SPECIFICATIONS ON-SITE DURING CONSTRUCTION.
- 6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
- 7. ANY DISCREPANCIES BETWEEN THESE CONSTRUCTION PLANS, THE WSDOT TECHNICAL SPECIFICATIONS, THE SPECIAL PROVISIONS, AND PERMIT CONDITIONS, ARE TO BE BROUGHT TO THE ATTENTION OF THE OWNER AND/OR ENGINEER PRIOR TO PROCEEDING WITH THE WORK
- THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE CONTRACT DOCUMENTS AND FOR ALL SUBMITTALS REQUIRED FOR REVIEW AND ACCEPTANCE BY THE OWNER AND/OR FNGINFFR

SURVEY NOTES

- 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION
- 2. THE CONTRACTOR SHALL MAINTAIN A SET OF PLANS, LOCATED AT THE JOB SITE, WHICH SHOW "AS-CONSTRUCTED" CHANGES MADE TO DATE UPON COMPLETION OF THE PROJECT THE CONTRACTOR SHALL SUPPLY A SET OF PLANS, MARKED UP TO THE SATISFACTION OF THE OWNER REFLECTING THE AS-CONSTRUCTED MODIFICATIONS
- 3. SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY THE BUREAU OF LAND MANAGEMENT, AND WAS PROVIDED TO THE ENGINEER DURING DECEMBER, 2021. SITE CONDITIONS MAY HAVE CHANGED BETWEEN THE TIME OF SURVEY DATA COLLECTION AND THE TIME OF CONSTRUCTION. THE VERTICAL DATUM OF THE SURVEY DATA IS NAVD88 (FEET) AND THE HORIZONTAL DATUM IS WASHINGTON STATE PLANE NORTH (FEET).
- 4. ELEVATIONS AND OTHER EXISTING FEATURES SHOWN ON THE PLANS ARE BASED UPON THE SURVEY DATA PROVIDED TO THE ENGINEER BY THE OWNER THE CONTRACTOR SHALL VERIFY SURFACE ELEVATIONS IN THE FIELD AS NECESSARY AND NOTIFY THE ENGINEER AND THE OWNER OF ANY DISCREPANCIES WHICH MIGHT AFFECT THE WORK SHOWN ON THE PLANS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL OTHER FEATURES WHICH MAY BE AFFECTED BY THIS PROJECT, INCLUDING BURIED UTILITIES, AND STRUCTURES THE ENGINEER SHALL NOT BE HELD RESPONSIBLE, OR LIABLE FOR, FOR THE COSTS ASSOCIATED WITH THE WORK REQUIRED TO REPAIR, REPLACE, OR LOCATE FEATURES WHICH WILL BE IMPACTED BY THIS PROJECT
- 5. THE TREE LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE, AND WERE DETERMINED USING A COMBINATION OF AERIAL IMAGERY, GPS DATA, AND SITE VISIT NOTES.

CONSTRUCTION NOTES

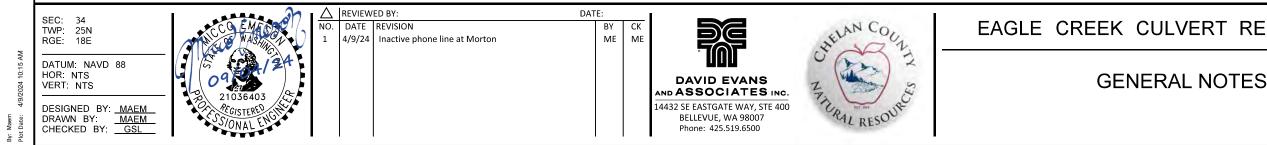
- 1. ALL WORK SHOWN ON THESE PLANS SHALL BE COMPLETED BETWEEN AND
- \langle 2. angleThe contractor shall furnish all materials, equipment, and labor necessary to COMPLETE ALL WORK AS INDICATED IN THE CONTRACT DOCUMENTS.
- \langle 3. angle construction hours shall be weekdays between 7:00 a.m. and 6:00 p.m. unless PRIOR APPROVAL IS RECEIVED FROM THE OWNER.
- \langle 4. anglesoils at the site may contain soft silt, clay and high groundwater and may REQUIRE EQUIPMENT MATS TO SUPPORT CONSTRUCTION EQUIPMENT CONSOLIDATION OF THE GROUND SURFACE SHOULD BE EXPECTED THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING NEED FOR, DESIGNING, PROCURING, INSTALLING, USING, AND REMOVING ANY EQUIPMENT MATS NEEDED TO ALLOW FOR EQUIPMENT OPERATION SUFFICIENT TO CONSTRUCT THE PROJECT
- \langle 5. angleThe contractor shall keep the Job site clean and hazard free. The CONTRACTOR SHALL DISPOSE OF ALL DIRT, DEBRIS AND RUBBISH FOR THE DURATION OF THE WORK UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE ALL MATERIAL AND EQUIPMENT ASSOCIATED WITH THE PROJECT, AND WHICH ARE NOT INCLUDED IN THE PERMANENT FEATURES PROPOSED FOR THIS PROJECT
- $\langle 6. \rangle$ The contractor shall coordinate with chelan county public utilities district AND THE OWNER IN ORDER TO DESIGN AND CONSTRUCT THE TEMPORARY AND PERMANENT UTILITY RELOCATIONS REQUIRED FOR THIS PROJECT.
- 7. THE CONTRACTOR AND SUBCONTRACTOR(S) ARE RESPONSIBLE FOR DESIGNING, PURCHASING AND TRANSPORTING, AND INSTALLING THE PRECAST CONCRETE BOX CULVERTS FOOTINGS WINGWALLS AND ANY NECESSARY STEM-WALLS REQUIRED FOR THIS PROJECT SHOP DRAWINGS SHALL BE SENT TO THE ENGINEER FOR APPROVAL PRIOR TO INITIATING THE PREFABRICATION PROCESS. THE PROPOSED STRUCTURES SHALL BE DESIGNED TO PROVIDE, AT A MINIMUM, AN HL-93 (OR HS-20) LOAD CAPACITY AND COMPLIANCE WITH THE CURRENT WSDOT STANDARD SPECIFICATIONS.
- \langle 8. \rangle THE FOOTINGS FOR THE PRECAST CONCRETE BOX CULVERTS SHALL BE DESIGNED BASED UPON INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT THE STRUCTURE FOUNDATIONS ARE TO BEAR ON 6-INCH LEVELING PADS COMPOSED OF COMPACTED BALLAST ROCK EXTENDING BEYOND THE EDGE OF THE FOOTINGS BY 1 FOOT IN ALL DIRECTIONS.
- $\langle 9. \rangle$ The contractor shall allow for inspection of the subgrade by a geotechnical engineer on behalf of the owner subgrade preparation may DIFFER FROM WHAT IS SHOWN IN THESE PLANS DEPENDING ON FIELD CONDITIONS AT THE TIME OF CONSTRUCTION.
- (10.)The backfill against the outside faces of the culvert shall be placed in SEQUENCE AND COMPACTED IN ACCORDANCE WITH STD. SPEC. 2-09.3(1)E. THE MAXIMUM DIFFERENCE BETWEEN THE HEIGHT OF BACKFILL INSIDE AND OUTSIDE OF THE CULVERT AT EACH WALL SHALL BE 2'-0" PRIOR TO INSTALLATION OF THE STRUCTURE TOP SLAB
- \langle 11.angleguardrail posts and railing are to be composed of pressure treated glulam OR PRESSURE TREATED TIMBER ALL HARDWARE USED FOR STRUCTURAL CONNECTIONS SHALL BE GALVANIZED THE CONTRACTOR SHALL COORDINATE WITH A SUPPLIER TO DESIGN, PURCHASE AND TRANSPORT THE MATERIALS REQUIRED FOR THE GUARDRAIL CONSTRUCTION. THE GUARDRAIL SHALL HAVE A MINIMUM HEIGHT OF 32 INCHES, MEASURED FROM THE TOP OF ADJACENT PAVEMENT GRADE TO THE TOP OF THE RAILING. THE GUARDRAIL SHALL BE DESIGNED TO SATISFY THE TL-1 CRASH RATING THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH DOCUMENTATION ASSURING THE CRASH RATING OF THE PROPOSED GUARDRAIL IS SUFFICIENT. SHOP DRAWINGS SHALL CLEARLY ILLUSTRATE THE MANNER IN WHICH CONNECTIONS ARE TO BE MADE WITHOUT COMPROMISING THE INTEGRITY OF THE BURIED STRUCTURE.
- \langle 12.angleThe contractor shall provide an increased thickness of HMA at either end OF THE CULVERT, PER THE APPLICABLE DETAIL CONTAINED IN THESE PLANS.
- \langle 13.) THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN THE PROPOSED AND EXISTING GRADING, WITHIN THE CHANNEL AND ON THE ROADWAY, AT THE LIMITS OF THE CONSTRUCTION
- (14.) CONSTRUCTION EQUIPMENT AND VEHICLES MAY REMAIN WITHIN THE LIMITS OF THE HIGH-VISIBILITY FENCE DURING WEEKDAYS THROUGHOUT CONSTRUCTION. EQUIPMENT AND VEHICLES SHALL BE MOVED TO APPROVED ALTERNATE LOCATION(S) ON THE PROPERTY NO LATER THAN 6:00 PM ON FRIDAY EVENING AND SHALL REMAIN STAGED AT THE ALTERNATE LOCATION(S) UNTIL WORK COMMENCES THE FOLLOWING MONDAY MORNING. MATERIALS MAY REMAIN WITHIN THE LIMITS OF THE HIGH VISIBILITY FENCE PROVIDED THEY ARE NEATLY ORGANIZED.
- \langle 15.anglecontractor shall submit a temporary construction access and staging plan FOR APPROVAL BY THE ENGINEER THIS PLAN SHALL PROVIDE UNINTERRUPTED ACCESS TO ALL AFFECTED PROPERTIES FOR THE DURATION OF CONSTRUCTION.

- SEDIMENT ON-SITE
- TRANSPORT TO THE SITE.

- APPROVED BY THE OWNER.

PERMIT NOTES

- - STATE AND LOCAL LAW.



EROSION, SEDIMENT CONTROL AND WATER MANAGEMENT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH ALL FEDERAL STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PERFORMANCE OF THE TEMPORARY EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT

2. A SEDIMENT AND EROSION CONTROL PLAN WILL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL BY THE CONTRACTING AGENCY BEFORE ANY CONSTRUCTION MAY BEGIN THE SEDIMENT AND EROSION CONTROL PLAN SHALL IDENTIFY BEST MANAGEMENT PRACTICES TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.

3. ACTIVITIES SHALL BE DESIGNED AND CONSTRUCTED TO AVOID AND MINIMIZE ADVERSE IMPACTS TO SURFACE WATERS, WETLANDS, AND GROUNDWATER TO THE MAXIMUM EXTENT PRACTICAL THROUGH THE USE OF PRACTICAL ALTERNATIVES ALTERNATIVES THAT SHALL BE CONSIDERED INCLUDE THOSE THAT MINIMIZE THE DURATION AND EXTENT OF IN-WATER WORK AS WELL AS THE NUMBER OF EQUIPMENT CROSSINGS OF WETTED CHANNELS

4. AT NO TIME SHALL SEDIMENT-LADEN WATER BE DISCHARGED OR PUMPED DIRECTLY INTO SURFACE WATERS OR WETLANDS WATER SHALL BE DISCHARGED IN ACCORDANCE WITH REQUIREMENTS SET FORTH IN THE PROJECT PERMITS AND SPECIFICATIONS

5. IF HIGH WATER LEVEL CONDITIONS THAT CAUSE SILTATION OR EROSION ARE ENCOUNTERED DURING CONSTRUCTION WORK SHALL STOP UNTIL THE WATER LEVEL SUBSIDES

6. PERMIT CONDITIONS CONTAIN SPECIFIC REQUIREMENTS FOR THE CONTROL OF EROSION AND TURBIDITY FROM PROJECT OPERATIONS TURBIDITY WILL BE MONITORED ON A FREQUENT BASIS BY THE OWNER TURBIDITY AMOUNTS IN EXCESS OF THE PERMITTED LEVELS MAY CAUSE WORK TO BE STOPPED UNTIL IMPROVED PRACTICES ARE IN EFFECT. THE CONTRACTOR IS RESPONSIBLE FOR ANY PROJECT DELAYS THAT OCCUR BY NATURE OF THE FAILURE TO ADEQUATELY CONTAIN

7. ALL EXTERNAL GREASE AND OIL SHALL BE PRESSURE-WASHED OFF THE EQUIPMENT PRIOR TO

8. THE CONTRACTOR SHALL HAVE AN EMERGENCY SPILL KIT ON-SITE AT ALL TIMES

9. NO TREES OR WETLAND VEGETATION SHALL BE REMOVED UNLESS THEY ARE SHOWN AND NOTED TO BE REMOVED ON THE PLANS OR AS DIRECTLY SPECIFIED BY THE OWNER.ALL TREES AND SHRUBS WITHIN THE GRADING LIMITS SHOWN ON THESE PLANS SHALL BE REMOVED. NO GRADING, DRIVING, OR STORAGE OF EQUIPMENT OR MATERIALS SHALL OCCUR WITHIN THE DRIP LINE OF TREES TO REMAIN UNLESS OTHERWISE APPROVED IF ANY ROOTS GREATER THAN 1.5 INCHES IN DIAMETER ARE ENCOUNTERED DURING EXCAVATION WORK IN THE VICINITY SHALL CEASE IMMEDIATLY AND THE OWNER SHALL BE IMMEDIATELY NOTIFIED.

10. TREES AND MATURE WOODY VEGETATION OUTSIDE OF THE GRADING LIMITS SHALL BE PROTECTED FROM DAMAGE TO THE ROOTZONE, THE BRANCHES AND THE BARK, UNLESS

1. EVERY REASONABLE EFFORT SHALL BE MADE TO CONDUCT THE WORK ASSOCIATED WITH THESE CONSTRUCTION PLANS IN A MANNER THAT MINIMIZES THE ADVERSE IMPACT ON WATER QUALITY, FISH AND WILDLIFE AND THE NATURAL ENVIRONMENT

ALL WORK WILL BE IN COMPLIANCE WITH PERMIT CONDITIONS ISSUED BY PERTINENT REGULATORY AGENCIES IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE COPIES OF ALL PERMITS ON THE JOB SITE, AND UNDERSTAND AND COMPLY WITH ALL PERMIT CONDITIONS.

3. ALL WORK THAT DISTURBS THE SUBSTRATE, BANK, OR SHORE OF A WATERS OF THE STATE THAT CONTAINS FISH LIFE SHALL BE CONDUCTED ONLY DURING THE APPROVED IN-WATER WORK WINDOWS THOSE PORTIONS OF THE PROJECT WORK THAT OCCUR OUTSIDE OR ABOVE THE ORDINARY HIGH WATER MARK ARE NOT SUBJECT TO THE WORK PERIODS DESCRIBED ABOVE UNLESS SPECIFIED IN THE RELEVANT PERMITS

4. ALL ACTIVITIES THAT INVOLVE WORK ADJACENT TO, OR WITHIN THE WETTED CHANNEL SHALL, AT ALL TIMES, REMAIN CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS; EFFLUENT LIMITATION AND STANDARDS OF PERFORMANCE PROHIBITIONS PRETREATMENT STANDARDS AND MANAGEMENT PRACTICES ESTABLISHED PURSUANT TO THE CLEAN WATER ACT AND APPLICABLE

IF, AT ANY TIME, AS A RESULT OF PROJECT ACTIVITIES, FISH ARE OBSERVED IN DISTRESS, A FISH KILL OCCURS OR WATER QUALITY PROBLEMS DEVELOP (INCLUDING EQUIPMENT LEAKS OR SPILLS), OPERATIONS SHALL CEASE AND THE OWNER SHALL BE NOTIFIED IMMEDIATELY

6. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED AND THE STATE OFFICE OF HISTORIC PRESERVATION AND THE OWNER SHALL BE NOTIFIED IMMEDIATELY.

7. THE ORDINARY HIGH-WATER WAS DETERMINED USING THE 2-YEAR WATER SURFACE EXTENTS FROM THE HYDRAULIC MODEL CREATED FOR THIS PROJECT.

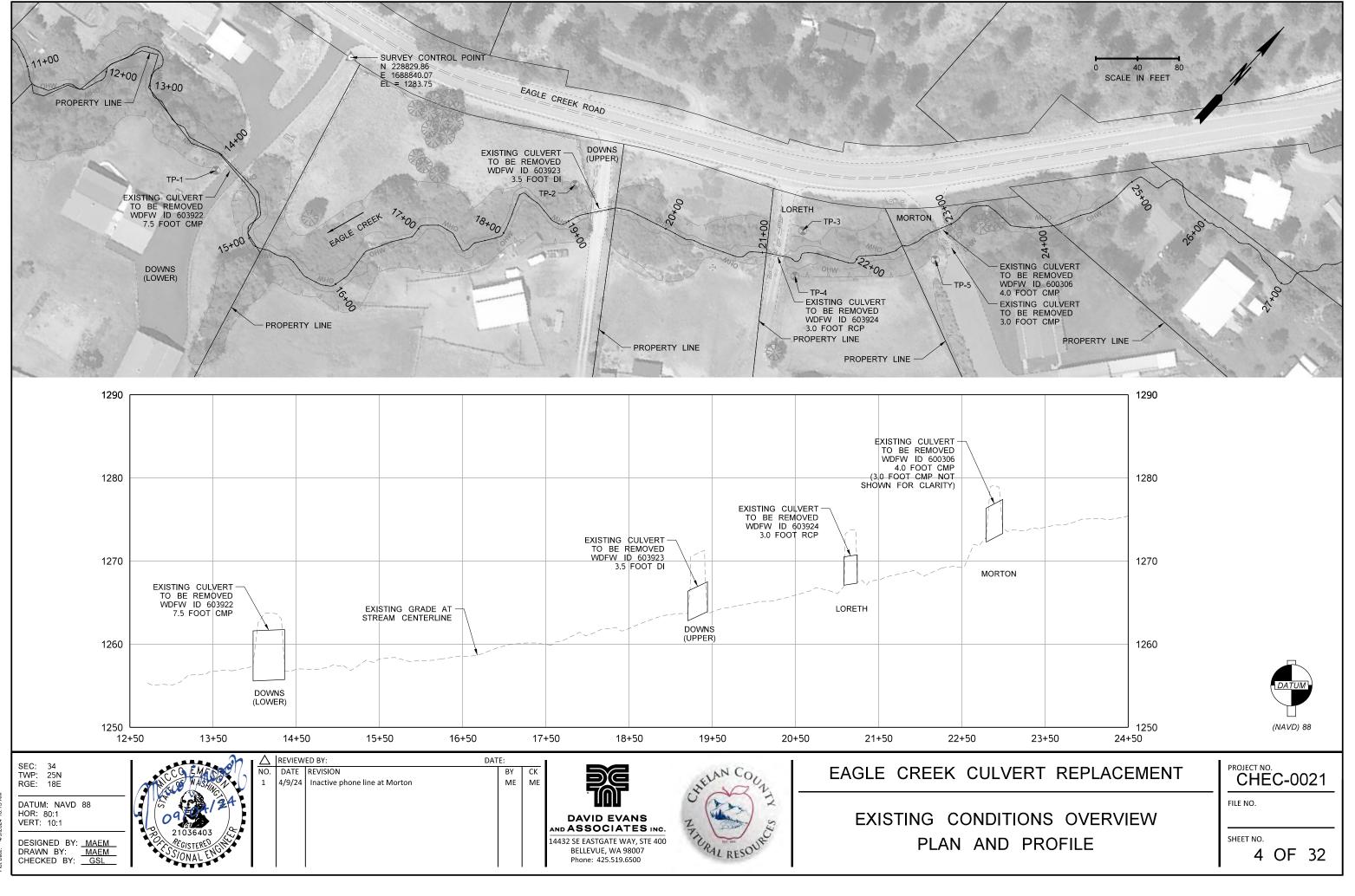
EAGLE CREEK CULVERT REPLACEMENT

PROJECT NO CHEC-0021

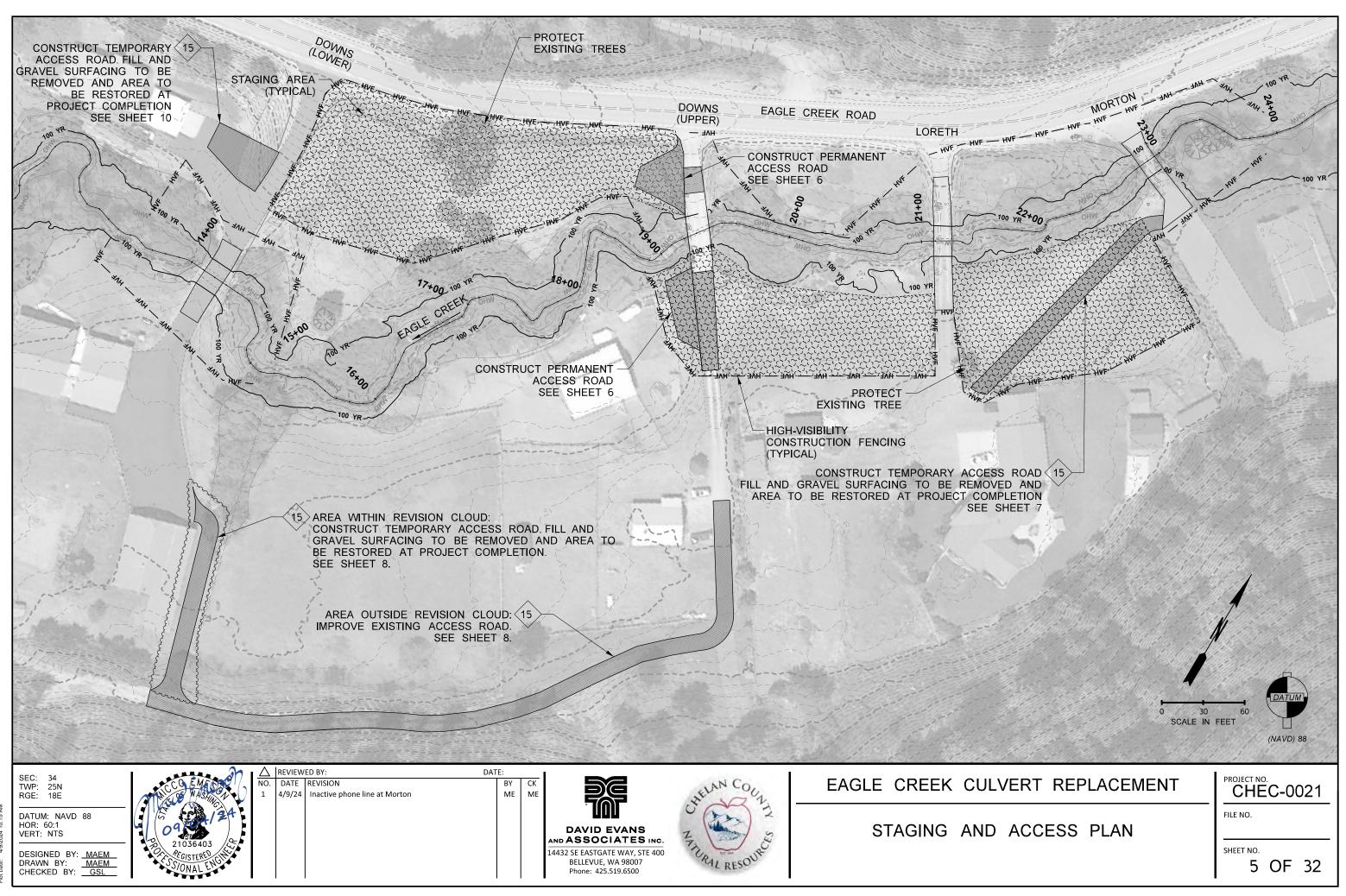
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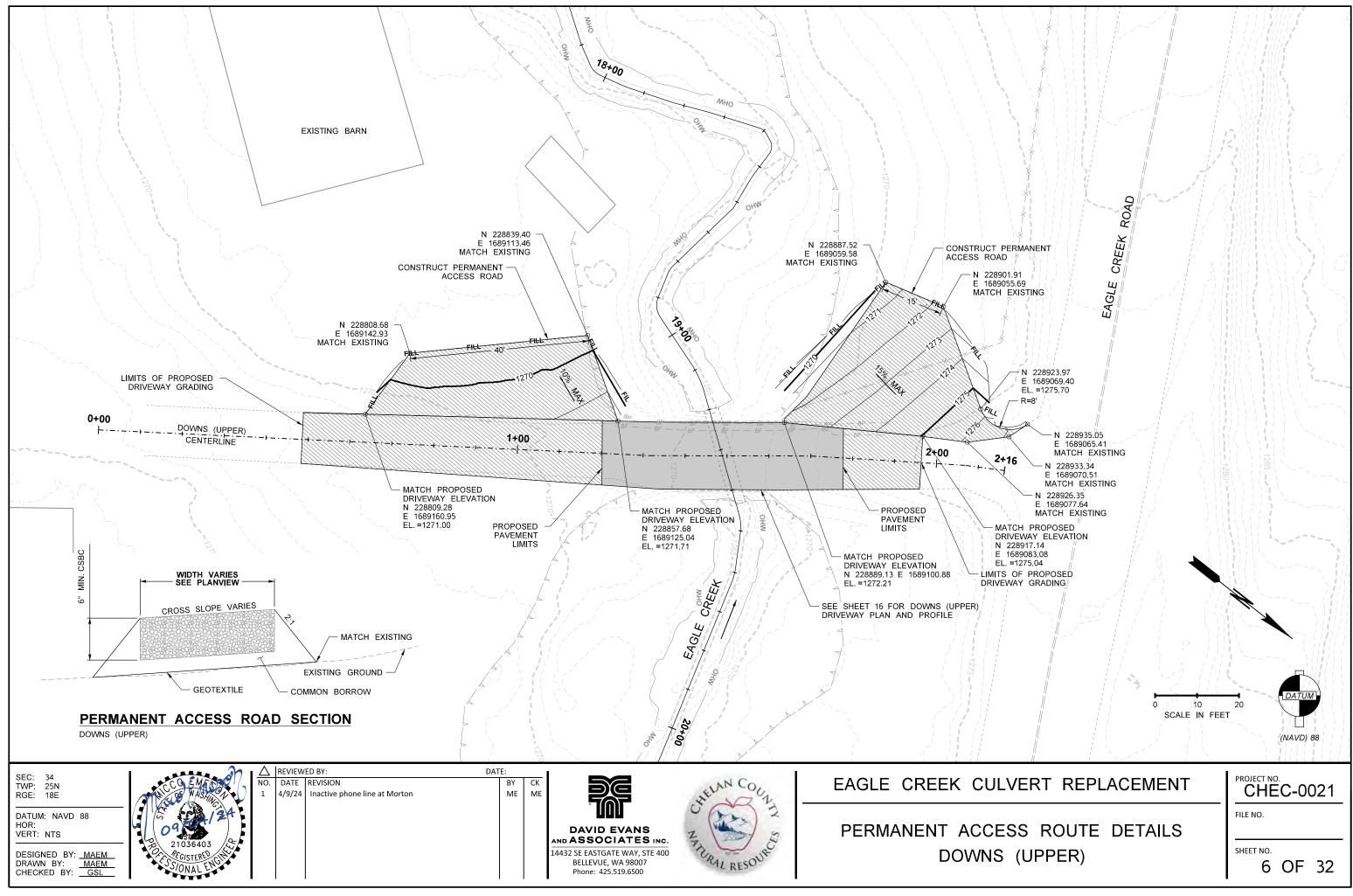
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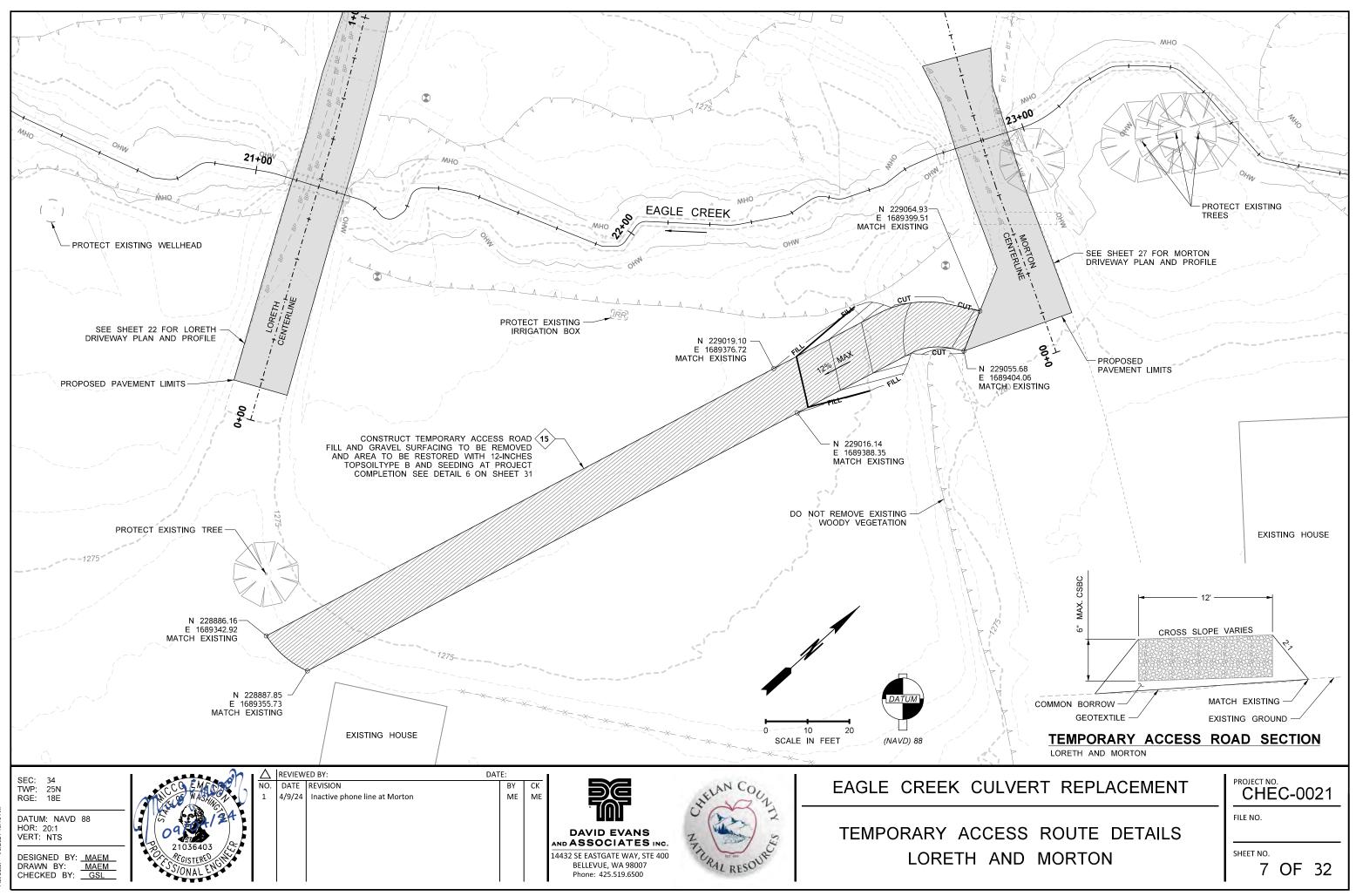


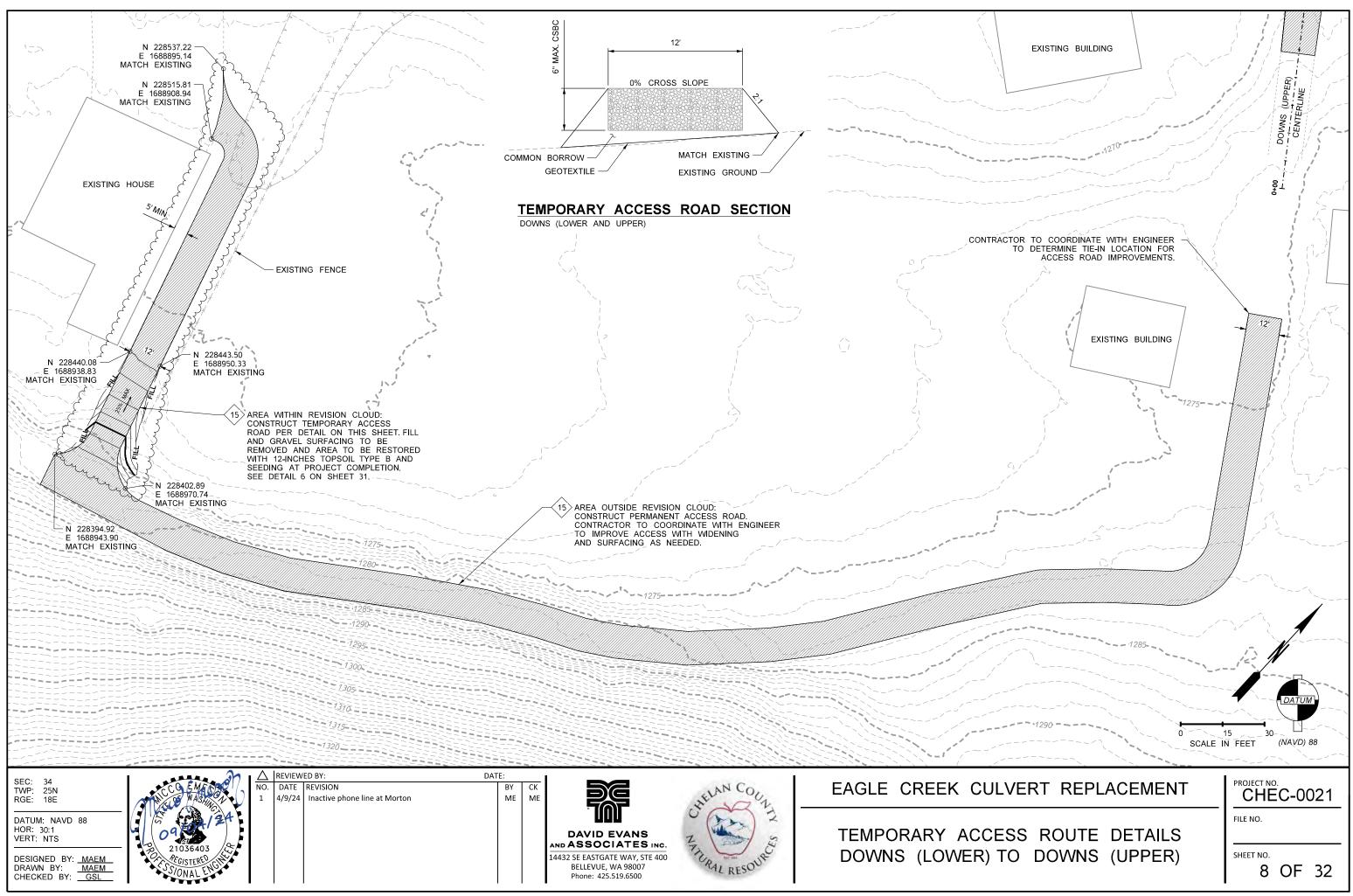
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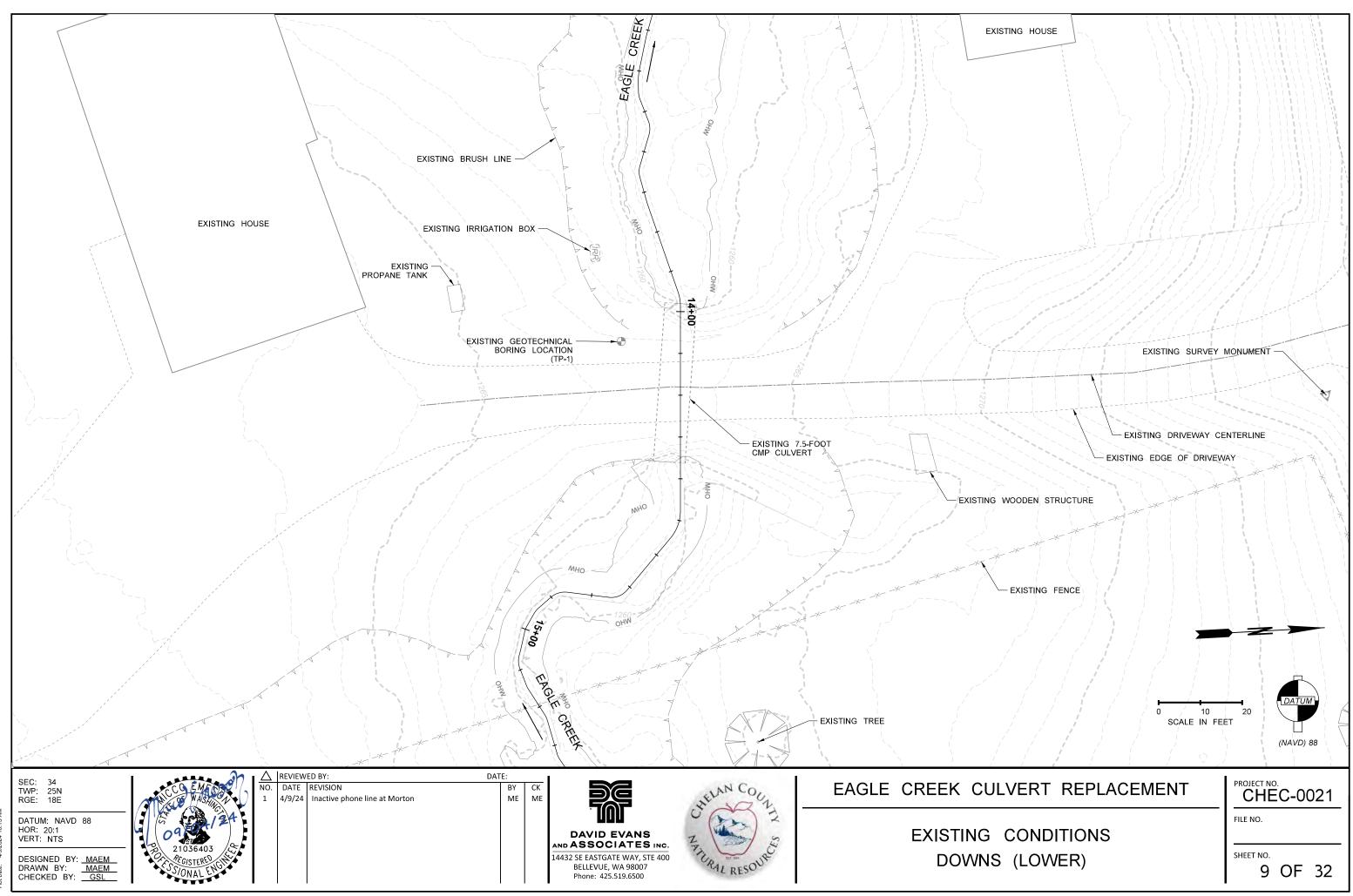


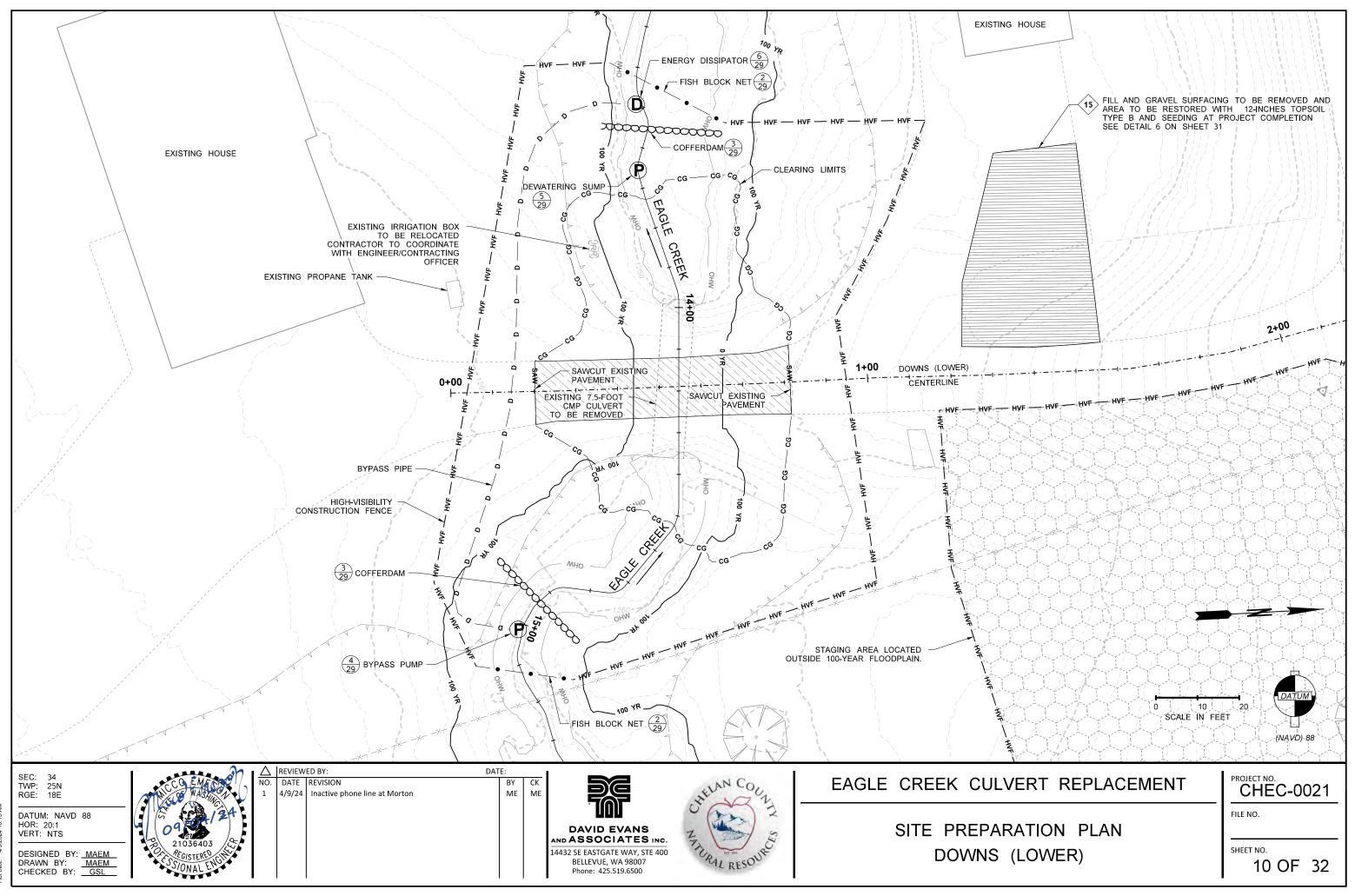
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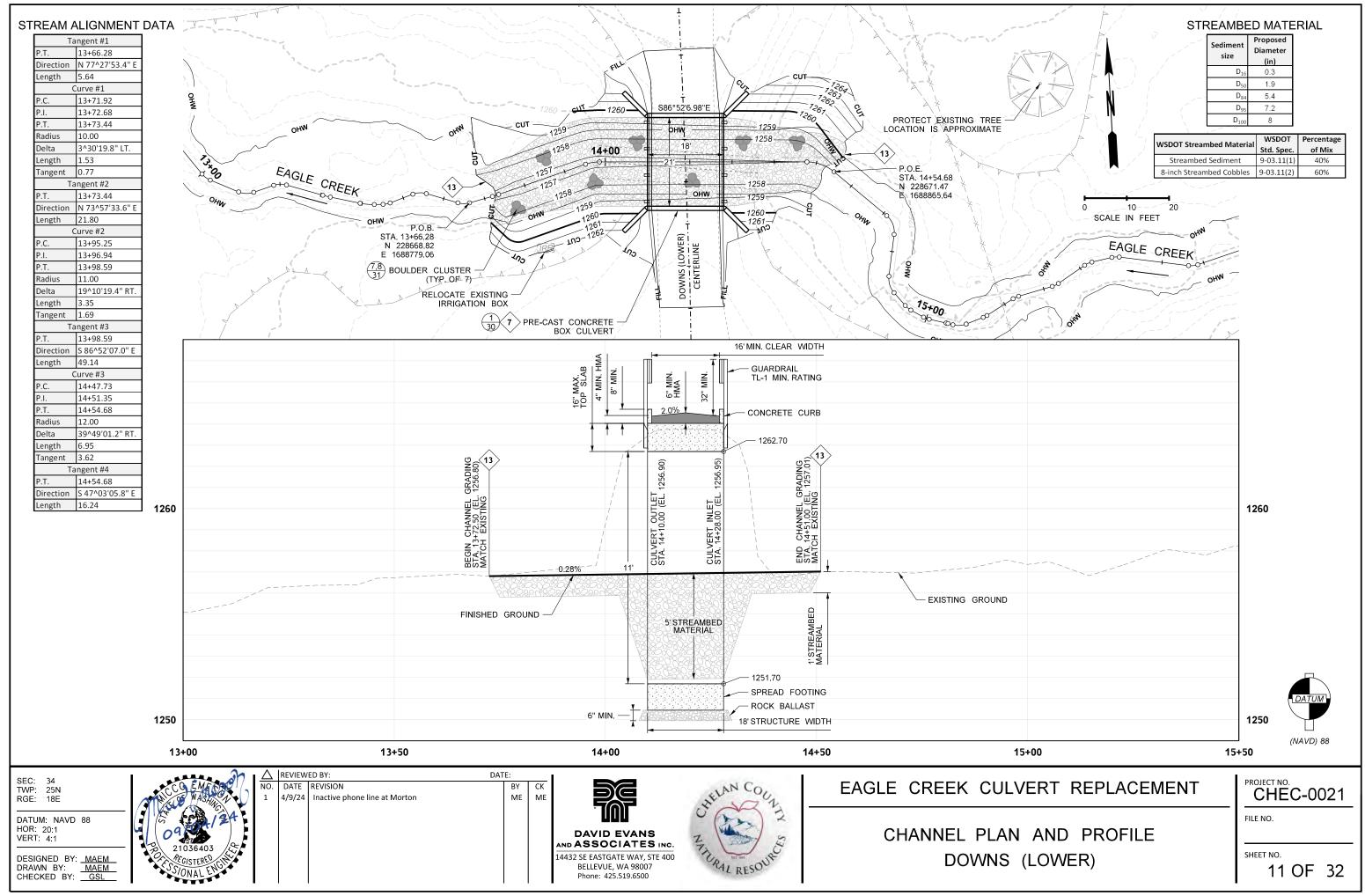




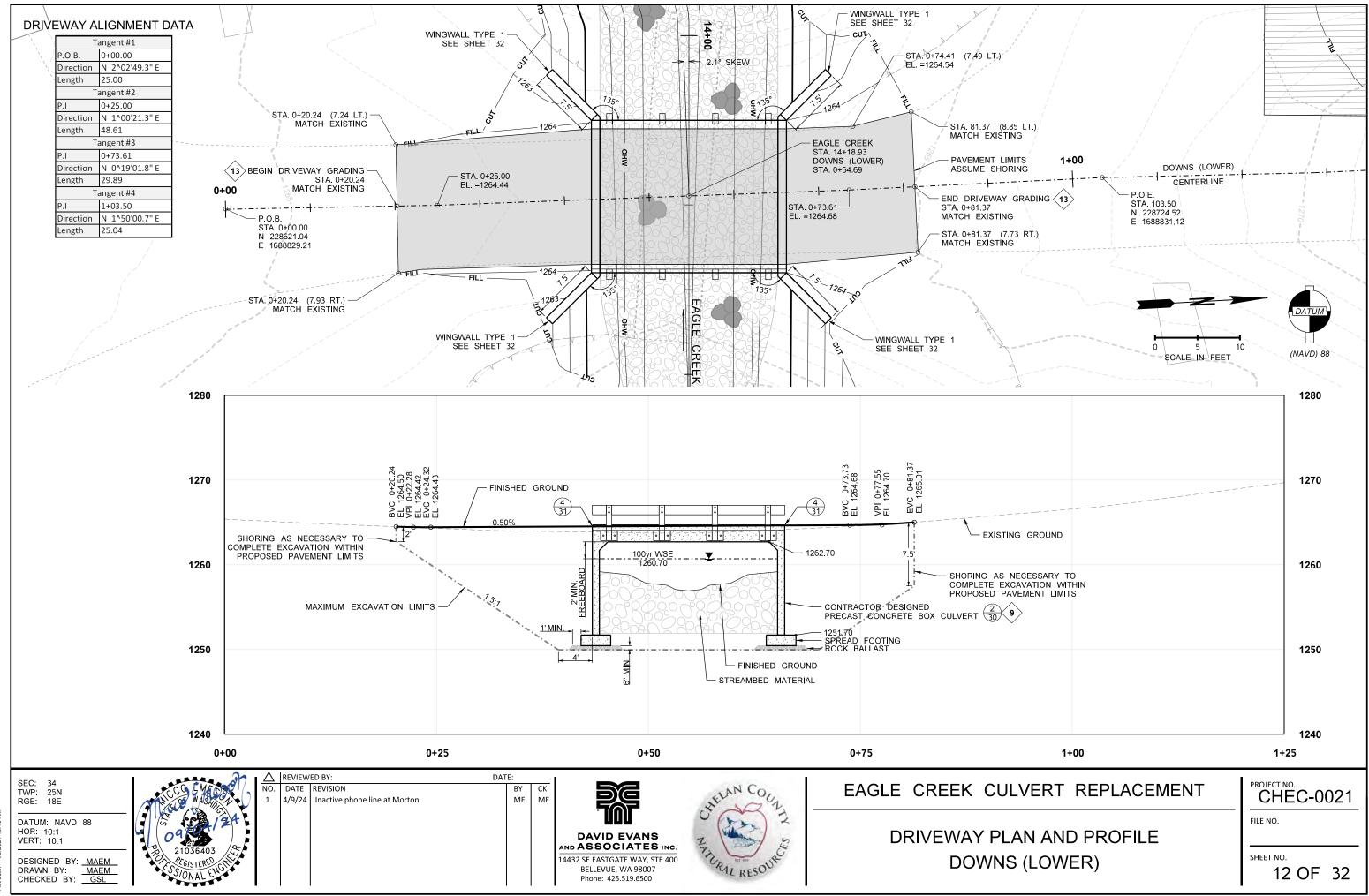
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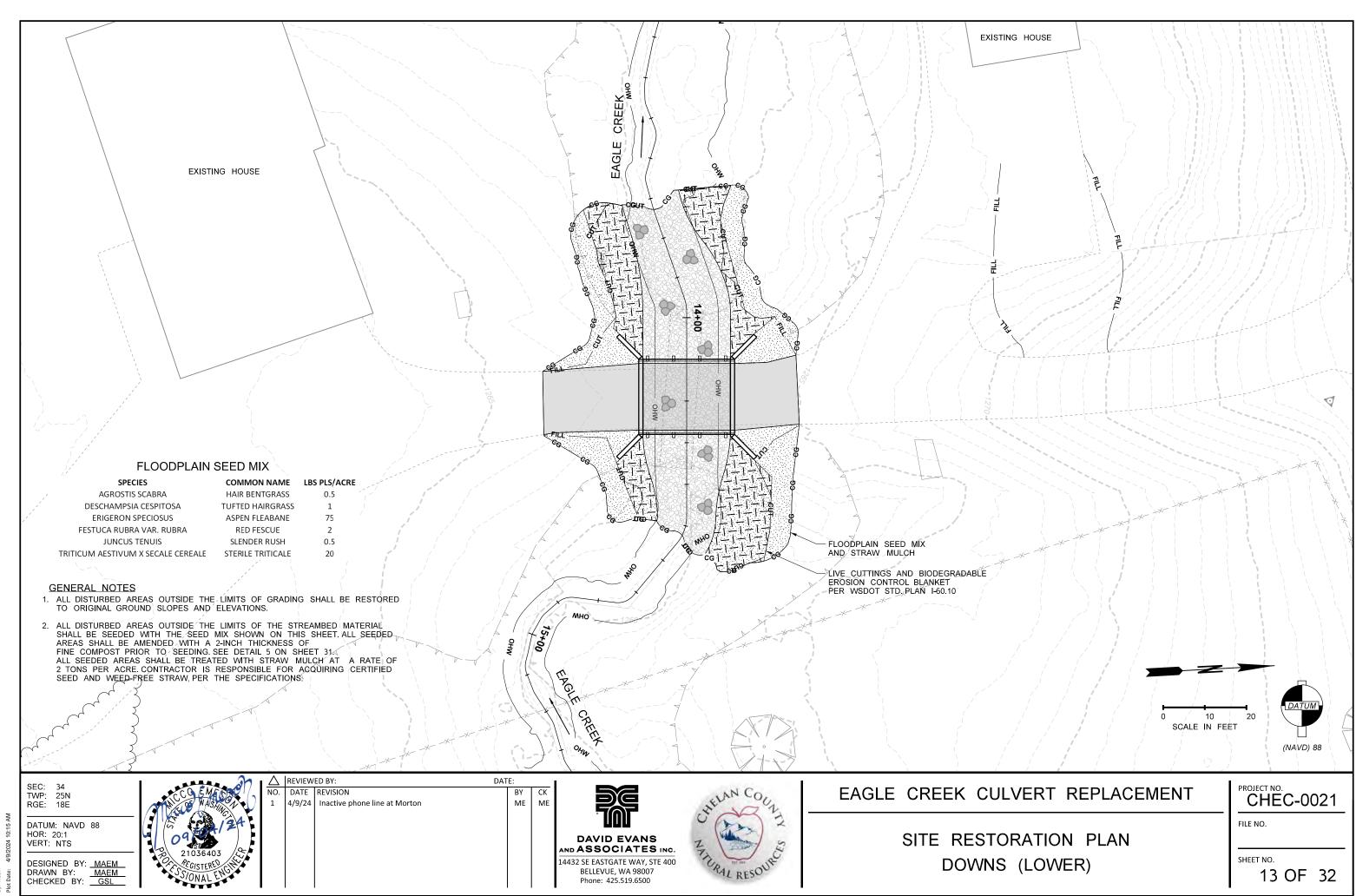


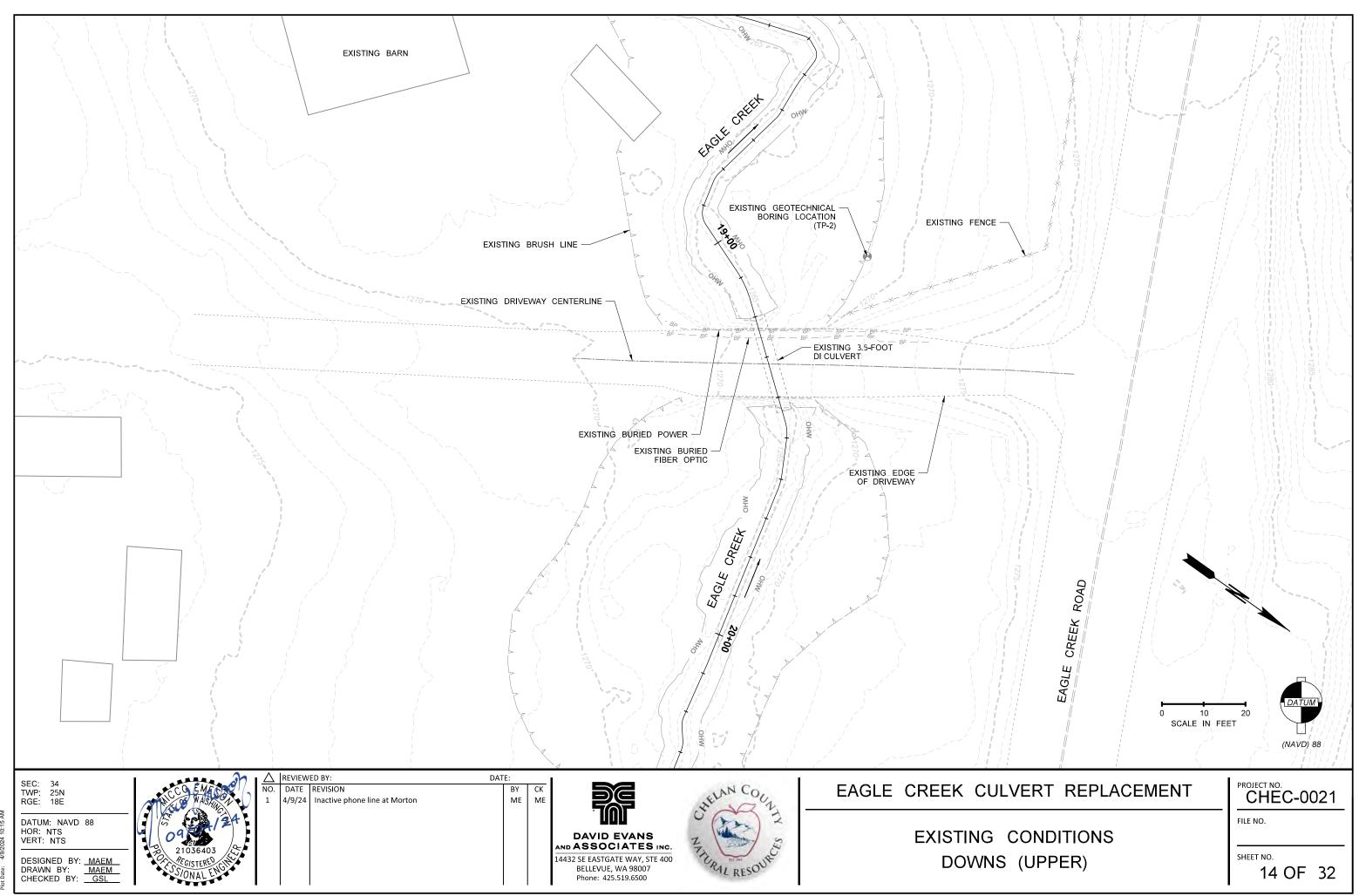


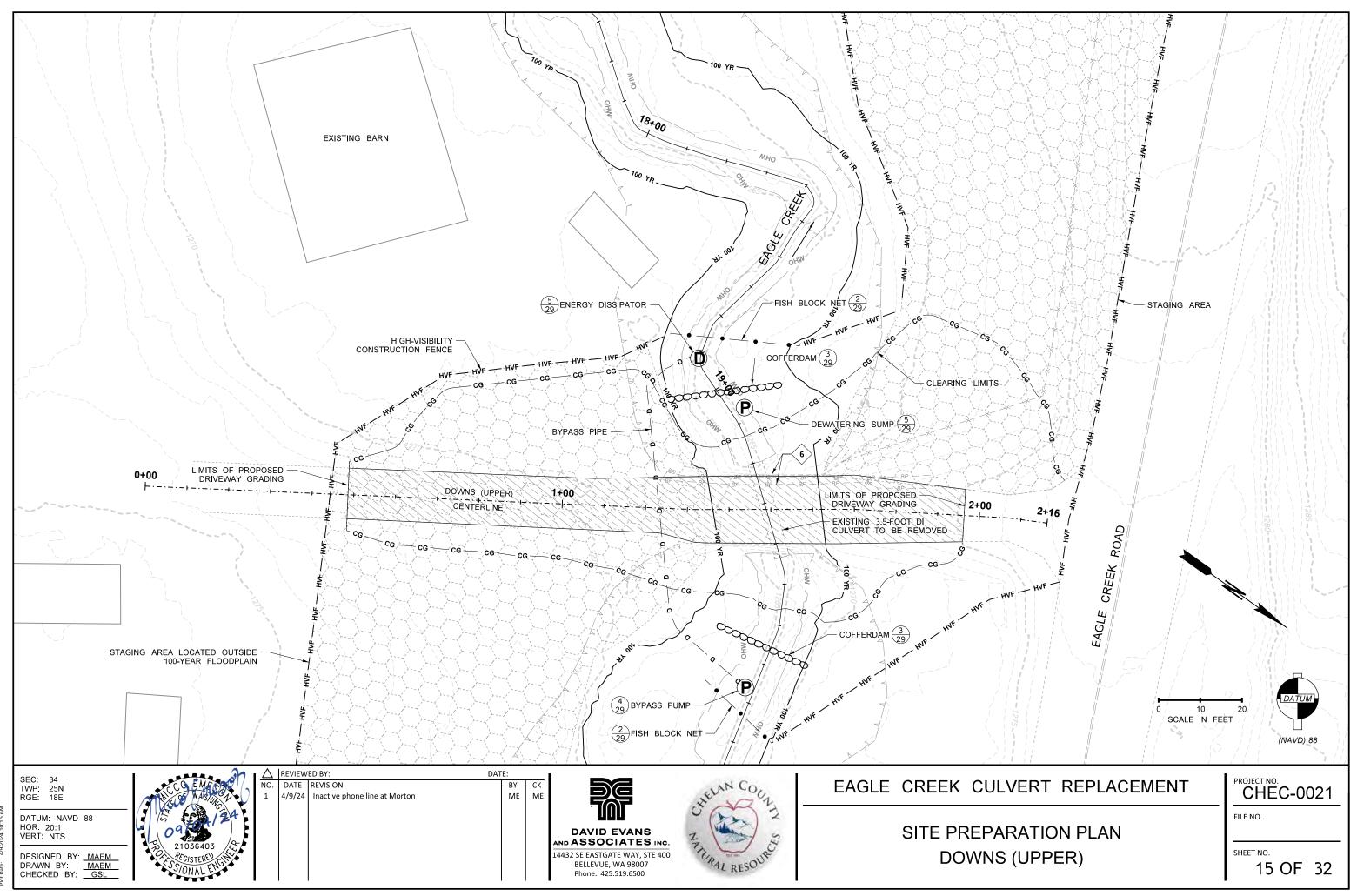
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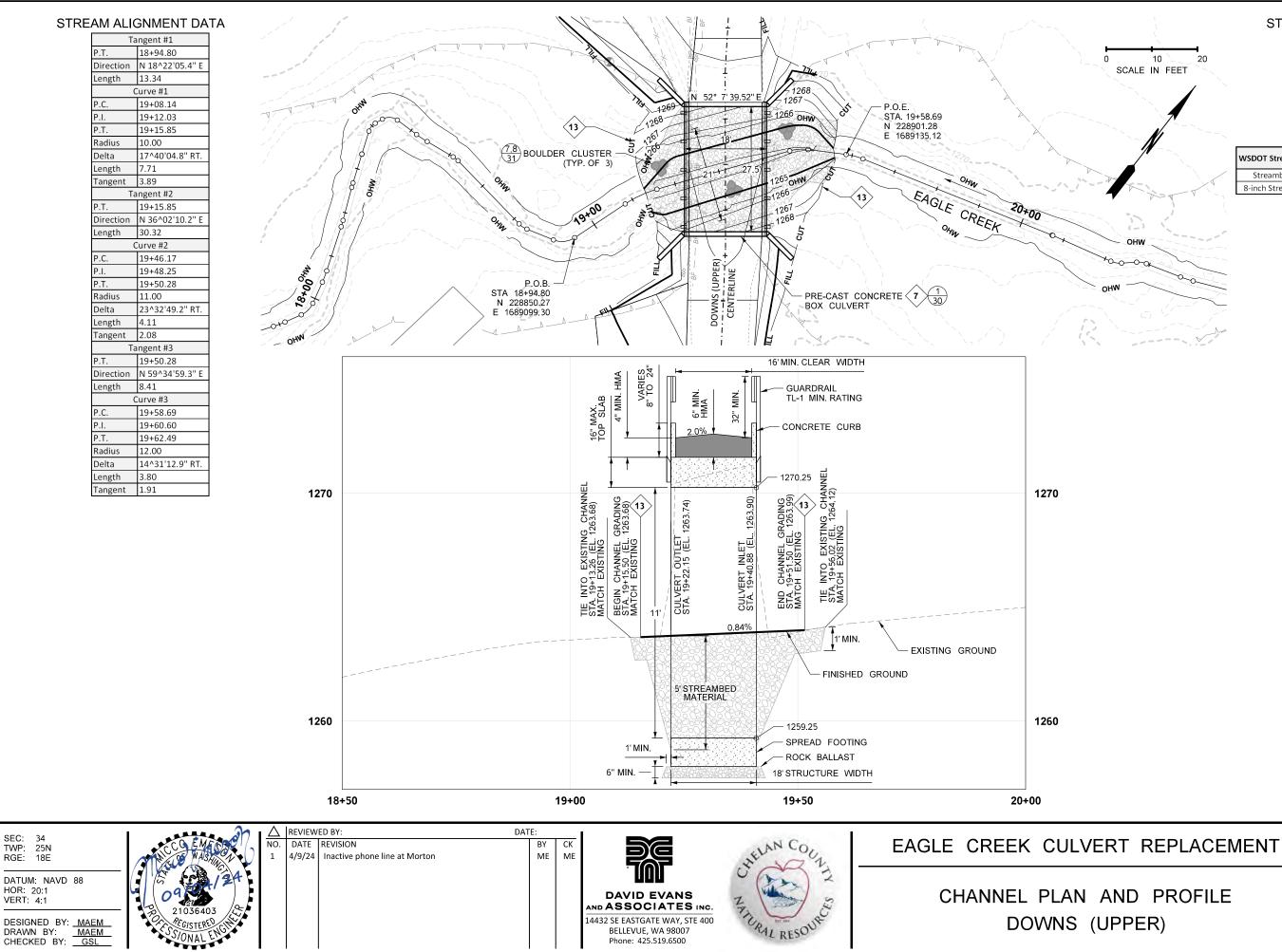


3y: Maem lot Date: 4/9/2024









SHEET NO. 16 OF 32

FILE NO.







WSDOT Streambed Material	WSDOT	Percentage	
wsbol streambed Waterial	Std. Spec.	of Mix	
Streambed Sediment	9-03.11(1)	40%	
8-inch Streambed Cobbles	9-03.11(2)	60%	

Sediment

size

 D_{16}

D₅₀

D₈₄

D₉₅

D₁₀₀

Proposed

Diameter

(in)

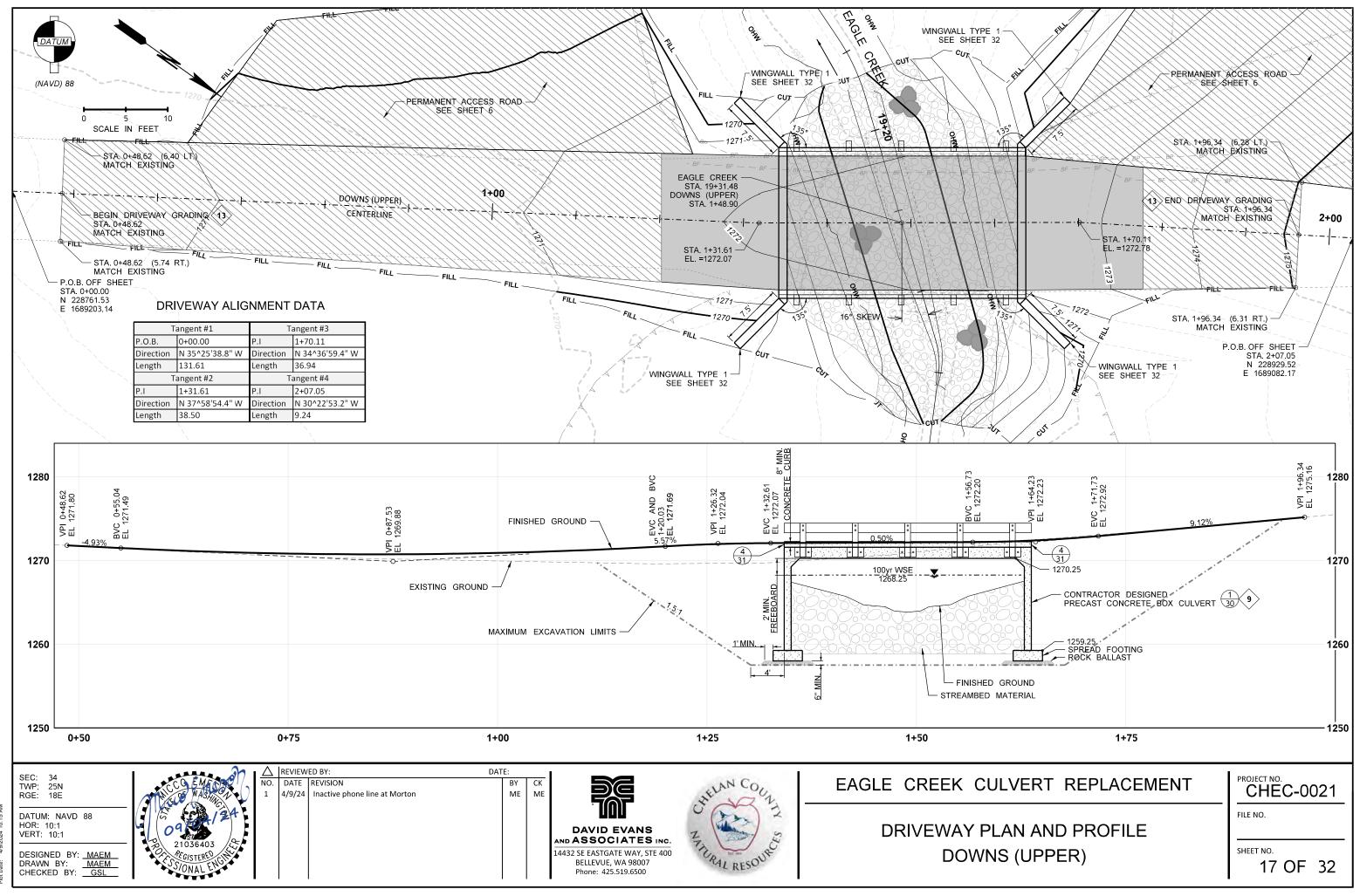
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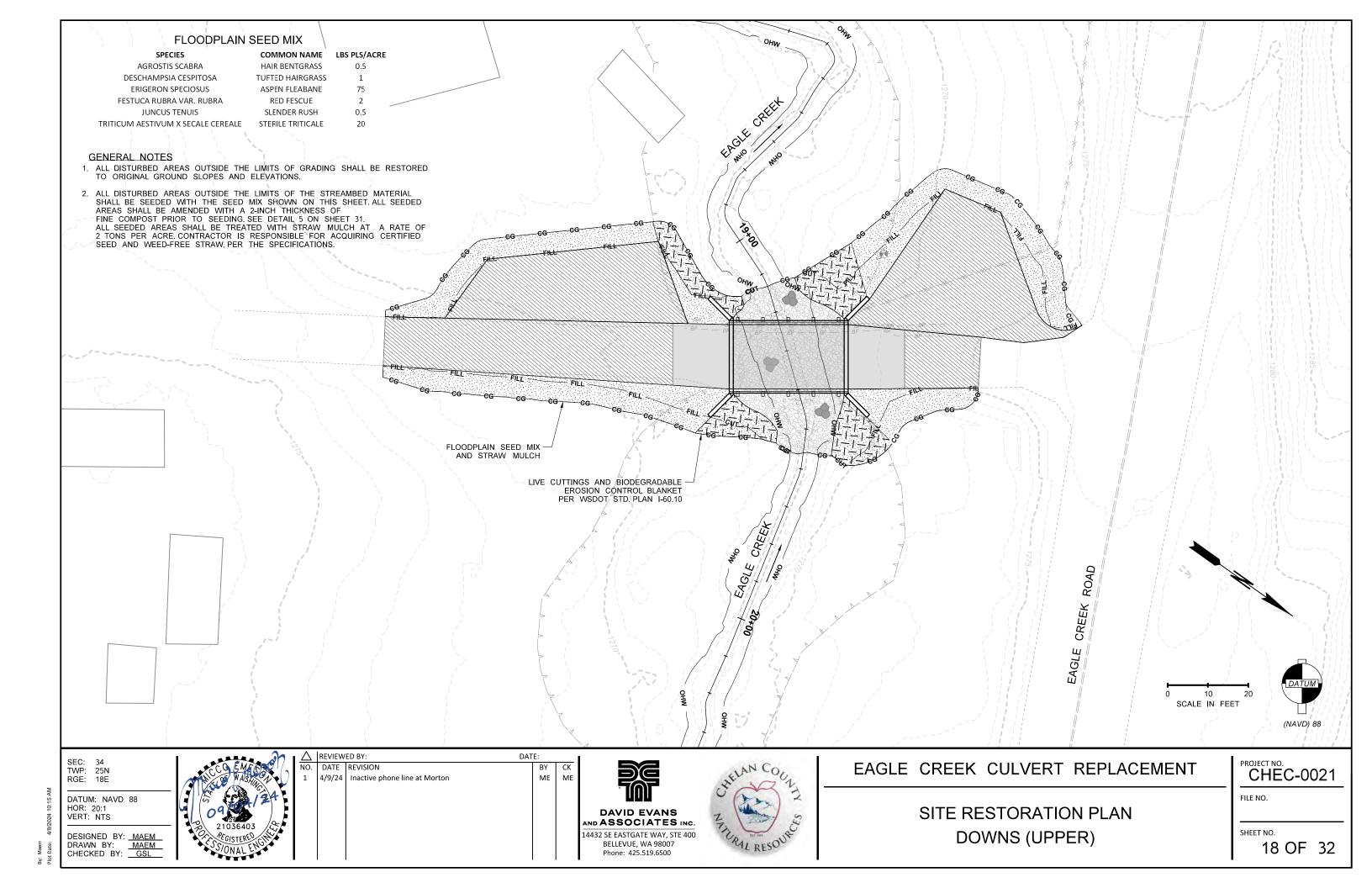
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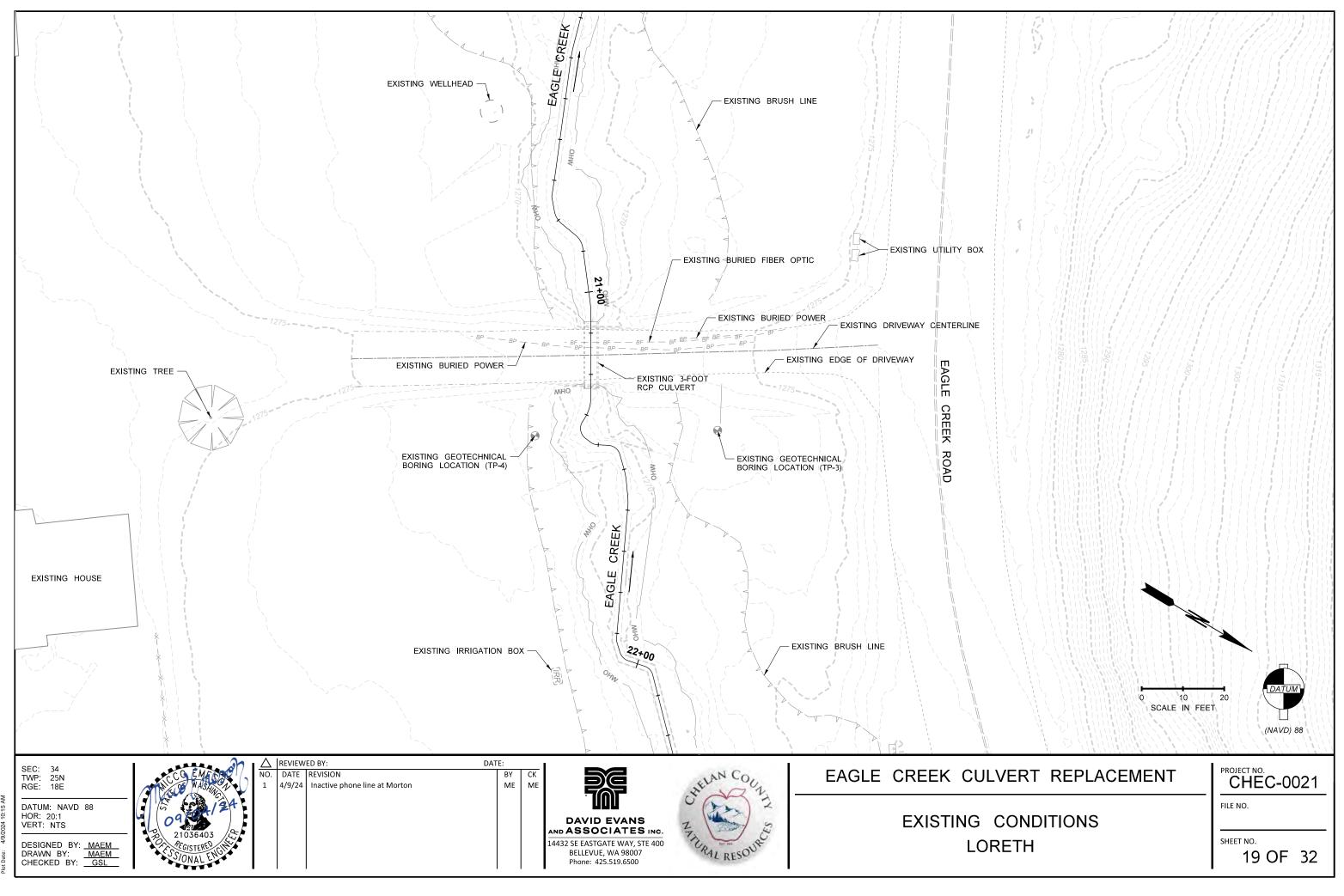
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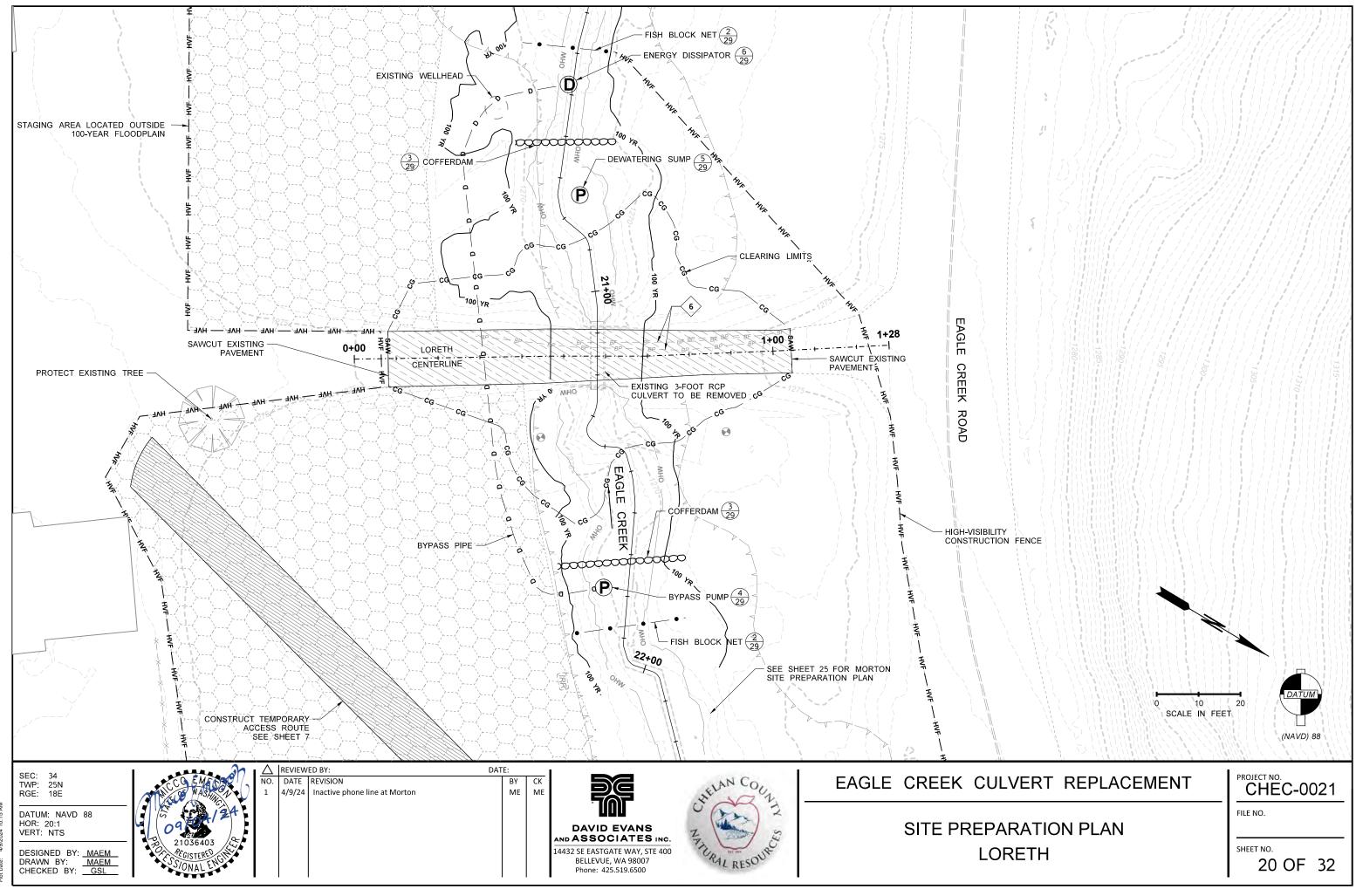
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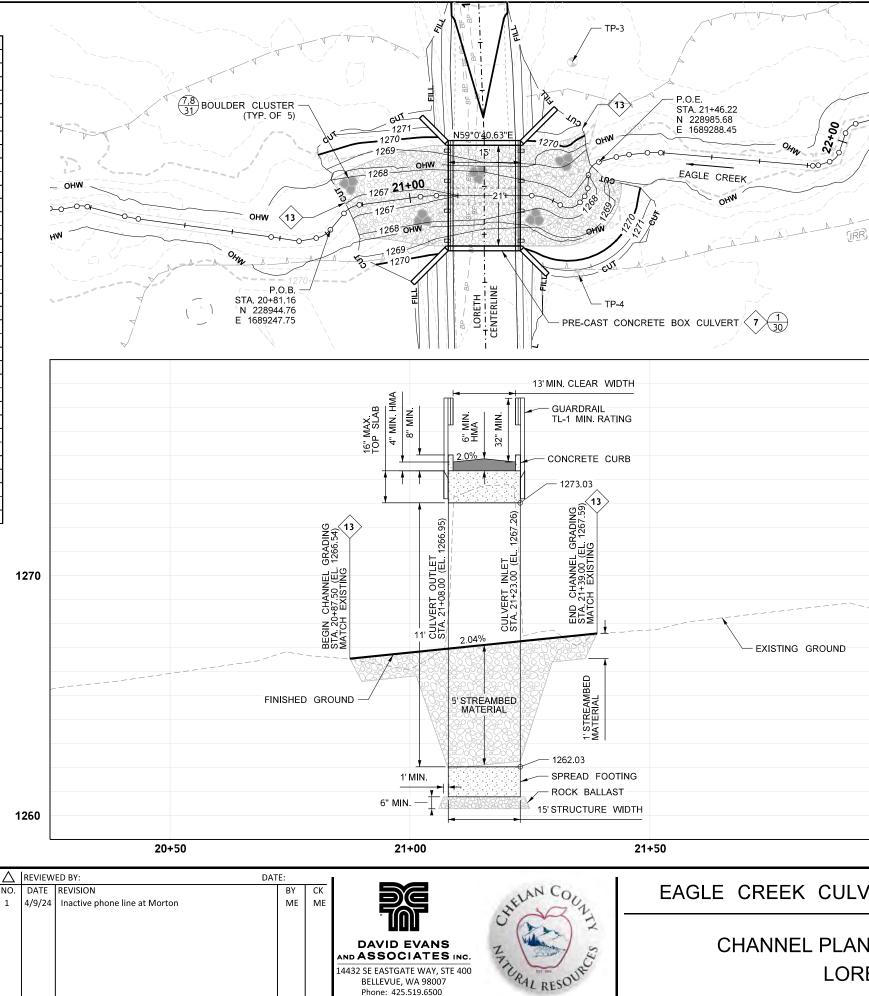




STDEAM ALICNMENT DATA

	「angent #1		Curve #4		
P.T.	20+81.16	P.C.	21+31.73		
Direction	N 8^41'24.0" E	P.I.	21+34.64		
Length	4.45	P.T.	21+36.36		
	Curve #1	Radius	12.00		
P.C.	20+85.61	Delta	88^16'22.0" LT.		
P.I.	20+87.56	Length	4.62		
P.T.	20+89.33	Tangent	2.91		
Radius	10.00		angent #4		
Delta	42^42'33.5"	P.T.	21+36.36		57
Length	3.73	Direction	N 7^04'50.1" E		
Tangent	1.96	Length	1.58		_ OHW
	angent #2		Curve #5		200
P.T.	20+89.33	P.C.	21+37.93		
Direction	N 51^23'57.4" E	P.I.	21+38.87		HW
Length	12.87	P.T.	21+39.75		FIN
0	Curve #2	Radius	12.00		
P.C.	21+02.20	Delta	34^41'25.9" LT.		
P.I.	21+03.86	Length	1.82		
P.T.	21+05.52	Tangent	0.94		1
Radius	11.00		angent #5		
Delta	7^36'43.2" RT.	P.T.	21+39.75		
Length	3.32	Direction	N 27^36'35.8" W		
Tangent	1.66	Length	2.77		
	Tangent #3	-	Curve #6		
P.T.	21+05.52	P.C.	21+42.52		
Direction	N 59^00'40.6" E	P.I.	21+42.52		
Length	19.87	P.T.	21+46.22		
Length	Curve #3	Radius	12.00		
P.C.	21+25.39	Delta	70^38'35.2" RT.		
P.I.	21+23.33	Length	3.70		
P.T.	21+28.67	Tangent	2.13		
	12.00	-			
Radius Delta	36^20'31.4" RT.		angent #6 21+46.22		
		P.T.			
Length Tangent	6.34 3.28	Direction Length	N 43^01'59.3" E 3.77		
	-		•		
				1270	
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				1270	

SIONAL E



L4432 SE EASTGATE WAY, STE 400

BELLEVUE, WA 98007

Phone: 425.519.6500

SEC: 34 TWP: 25N RGE: 18E

VERT: 4.1

DATUM: NAVD 88 HOR: 20:1

DESIGNED BY: <u>MAEM</u> DRAWN BY: <u>MAEM</u> CHECKED BY: <u>GSL</u>

1270 1260 (NAVD) 88 22+00 PROJECT NO. CHEC-0021 EAGLE CREEK CULVERT REPLACEMENT FILE NO. CHANNEL PLAN AND PROFILE SHEET NO. LORETH 21 OF 32



D₉₅ 7.2 D₁₀₀ 8 WSDOT Percentage WSDOT Streambed Material Std. Spec. of Mix Streambed Sediment 40% 9-03.11(1) 8-inch Streambed Cobbles 9-03.11(2) 60%

STREAMBED MATERIAL Sediment Streambed

size

 D_{16} D₅₀

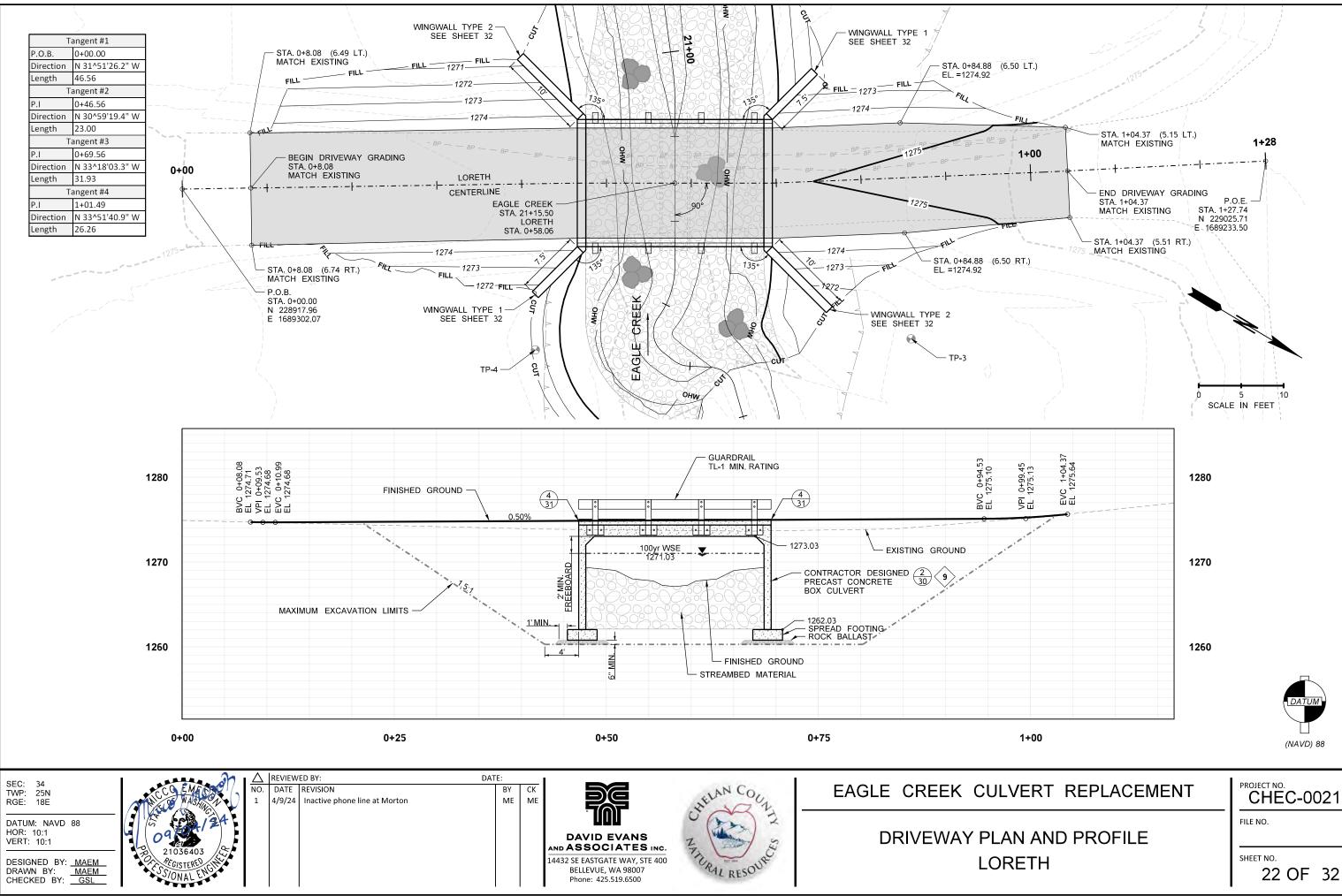
D₈₄

Material

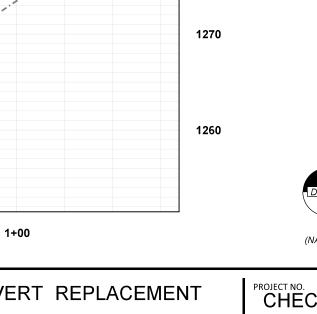
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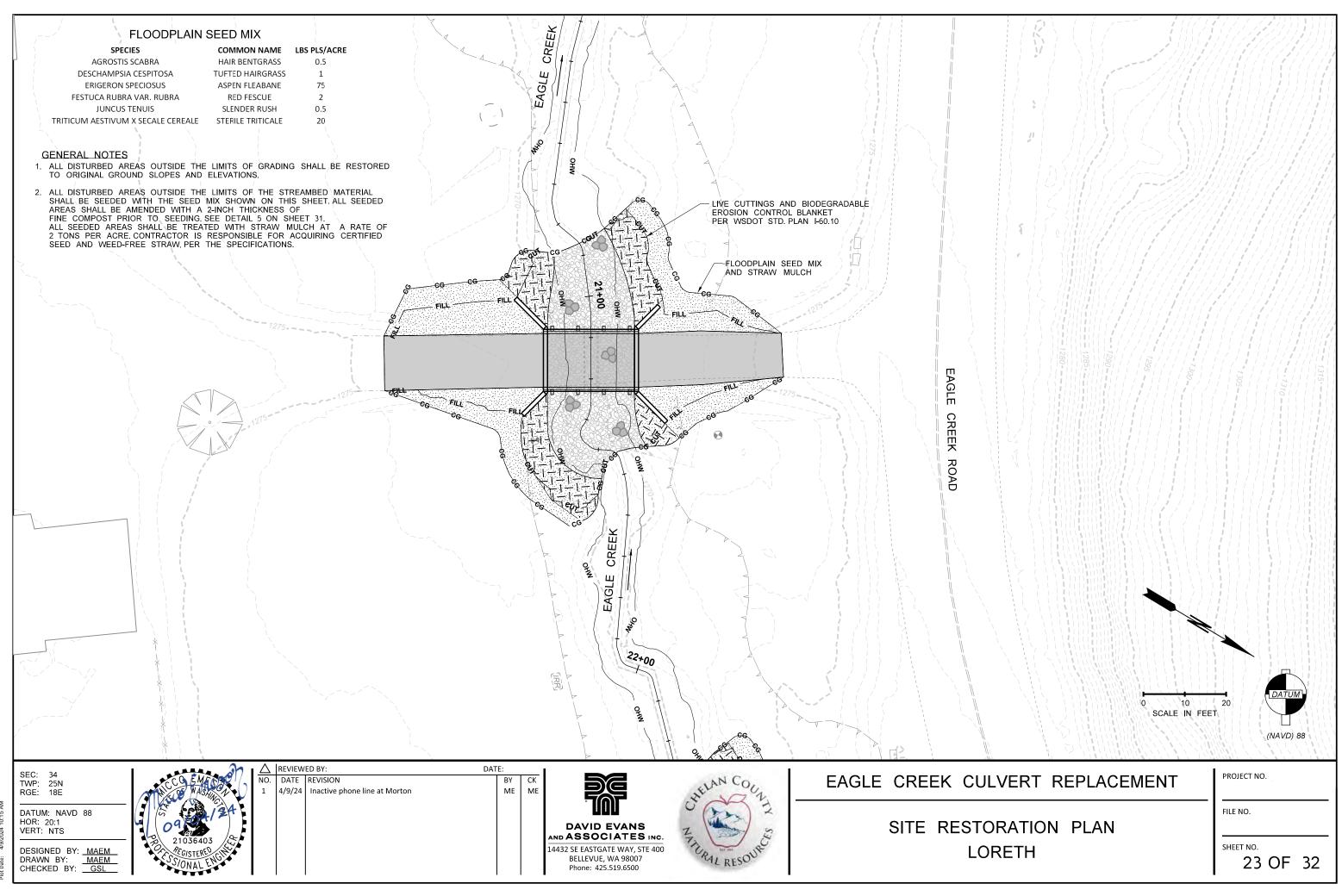
1.9

5.4

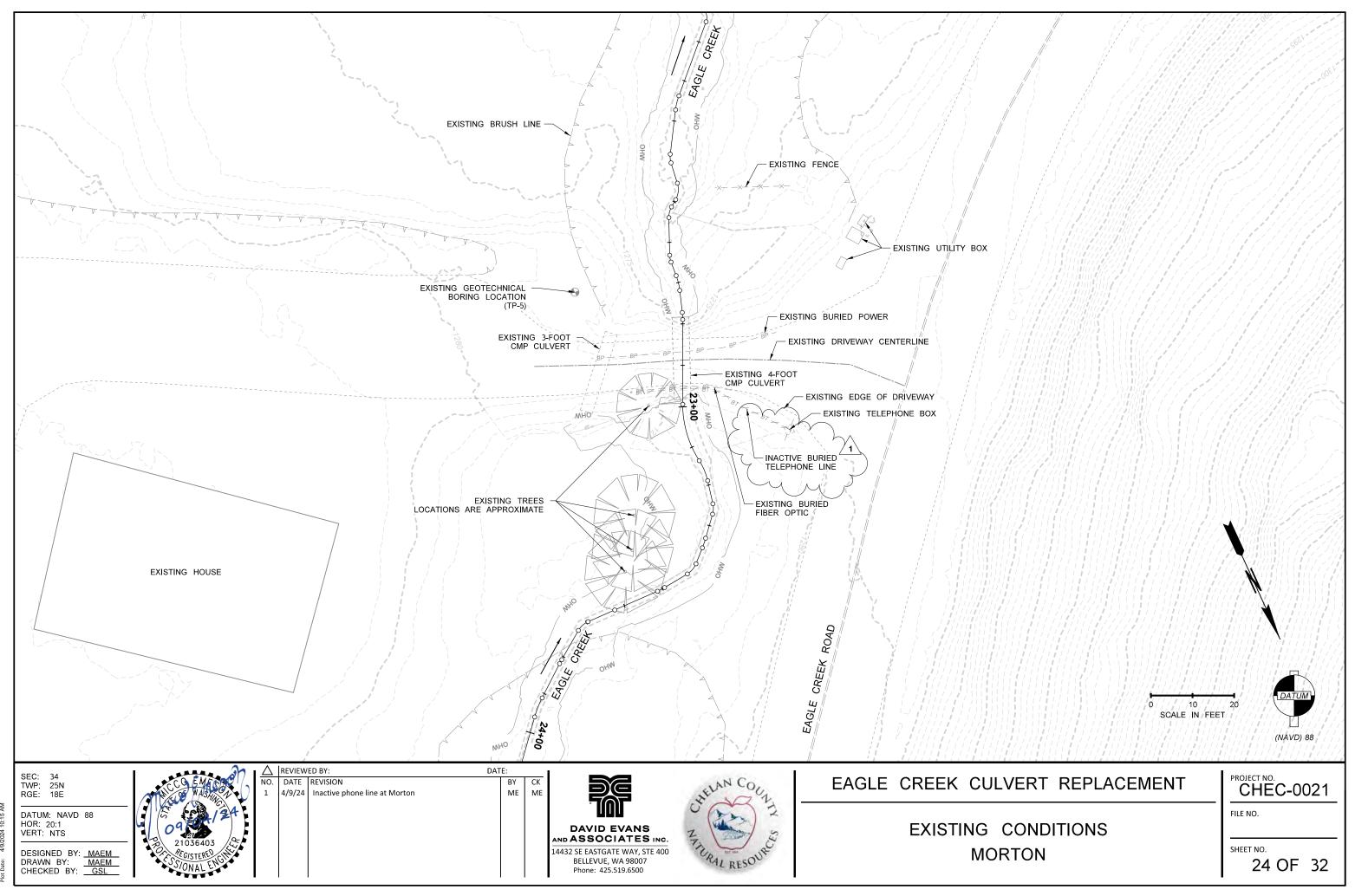


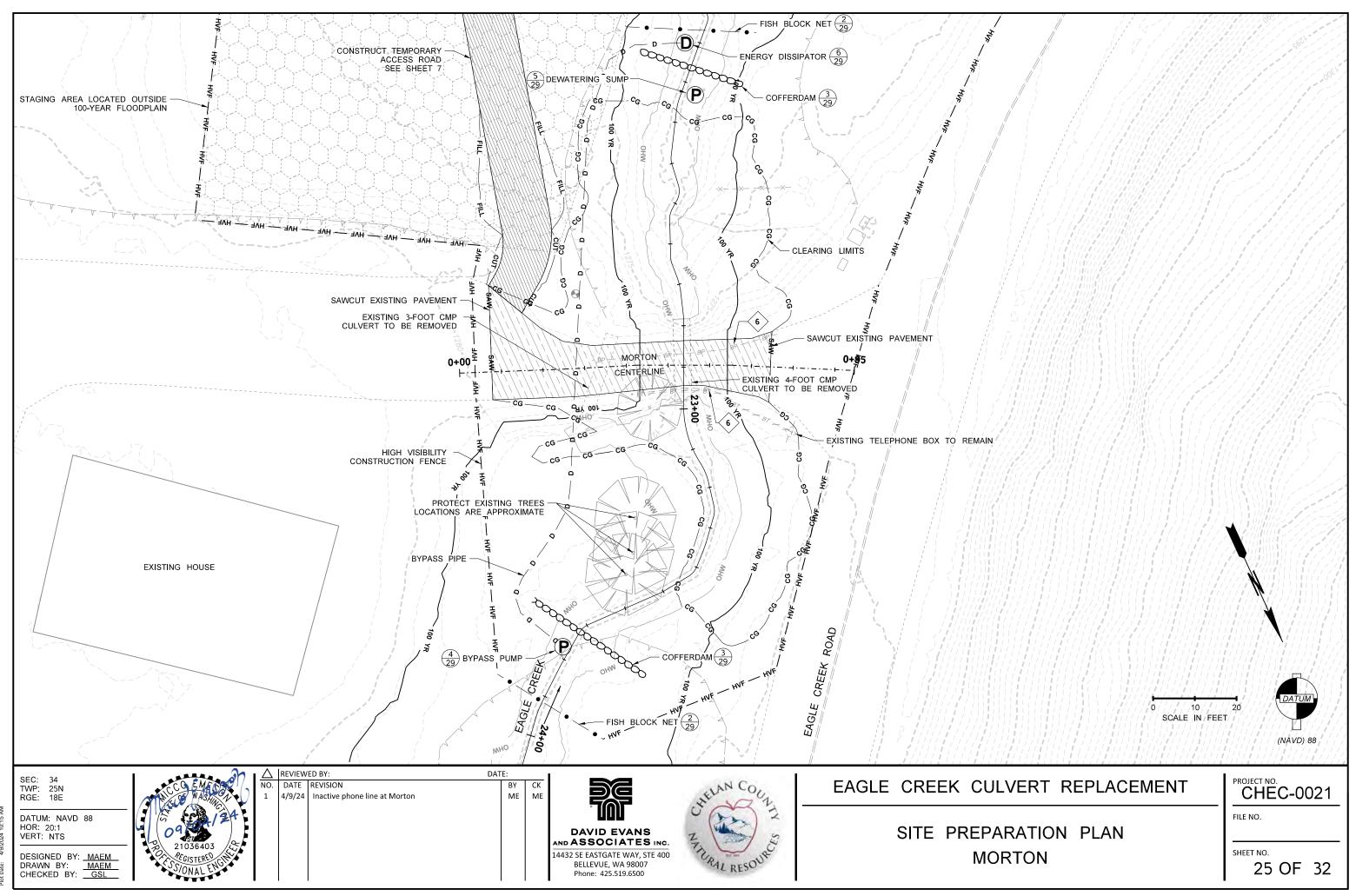
22 OF 32



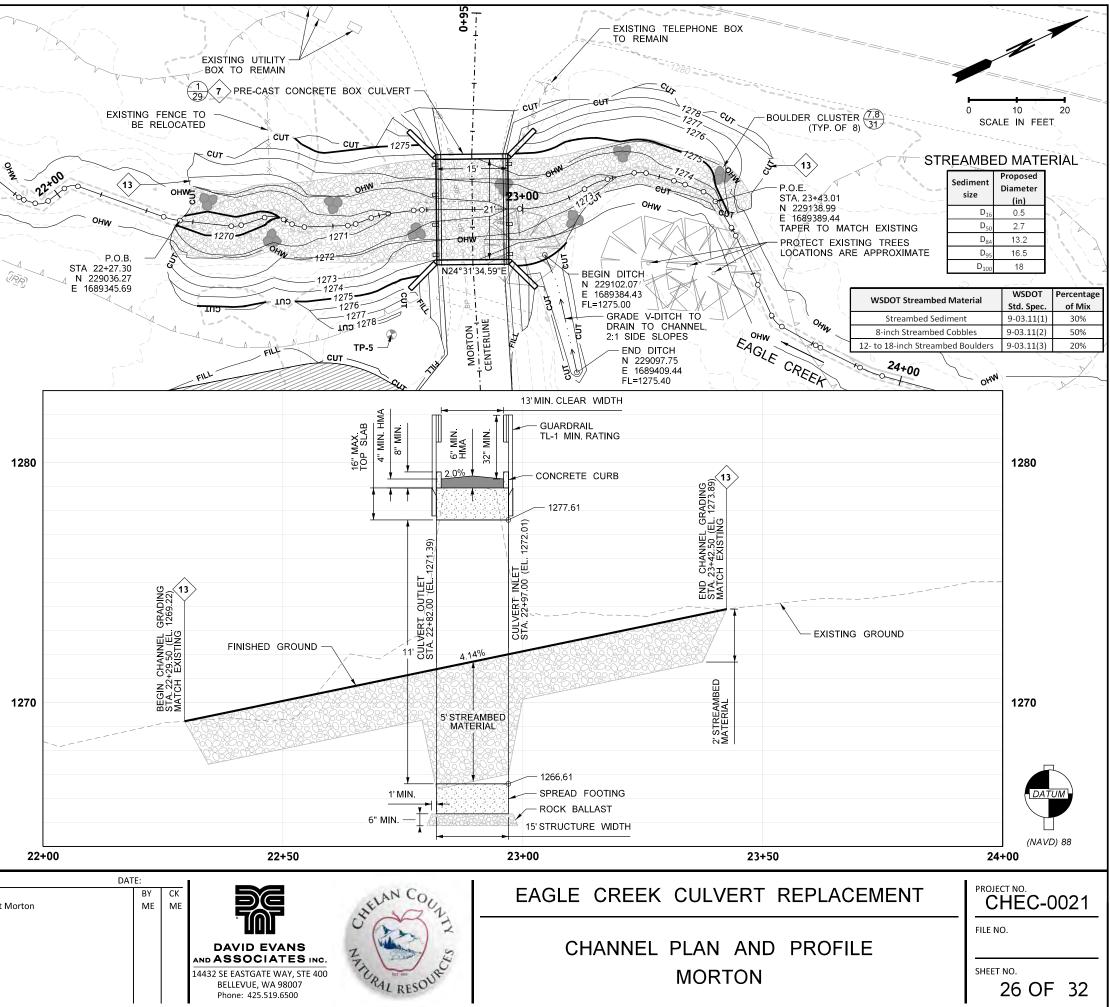


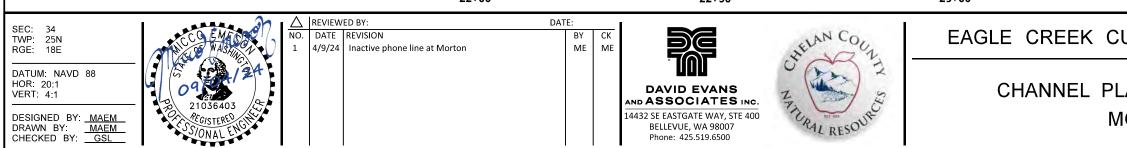
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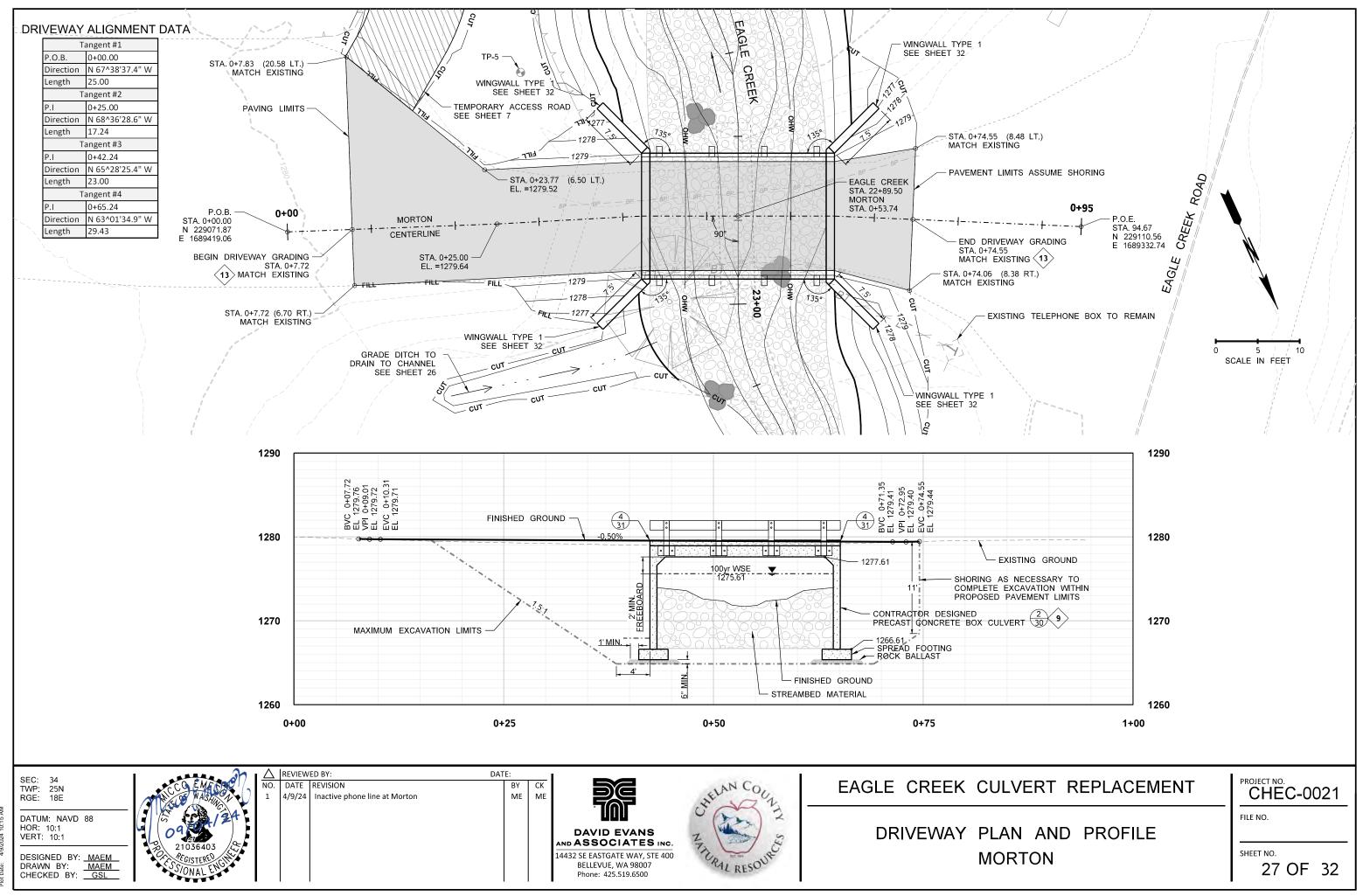


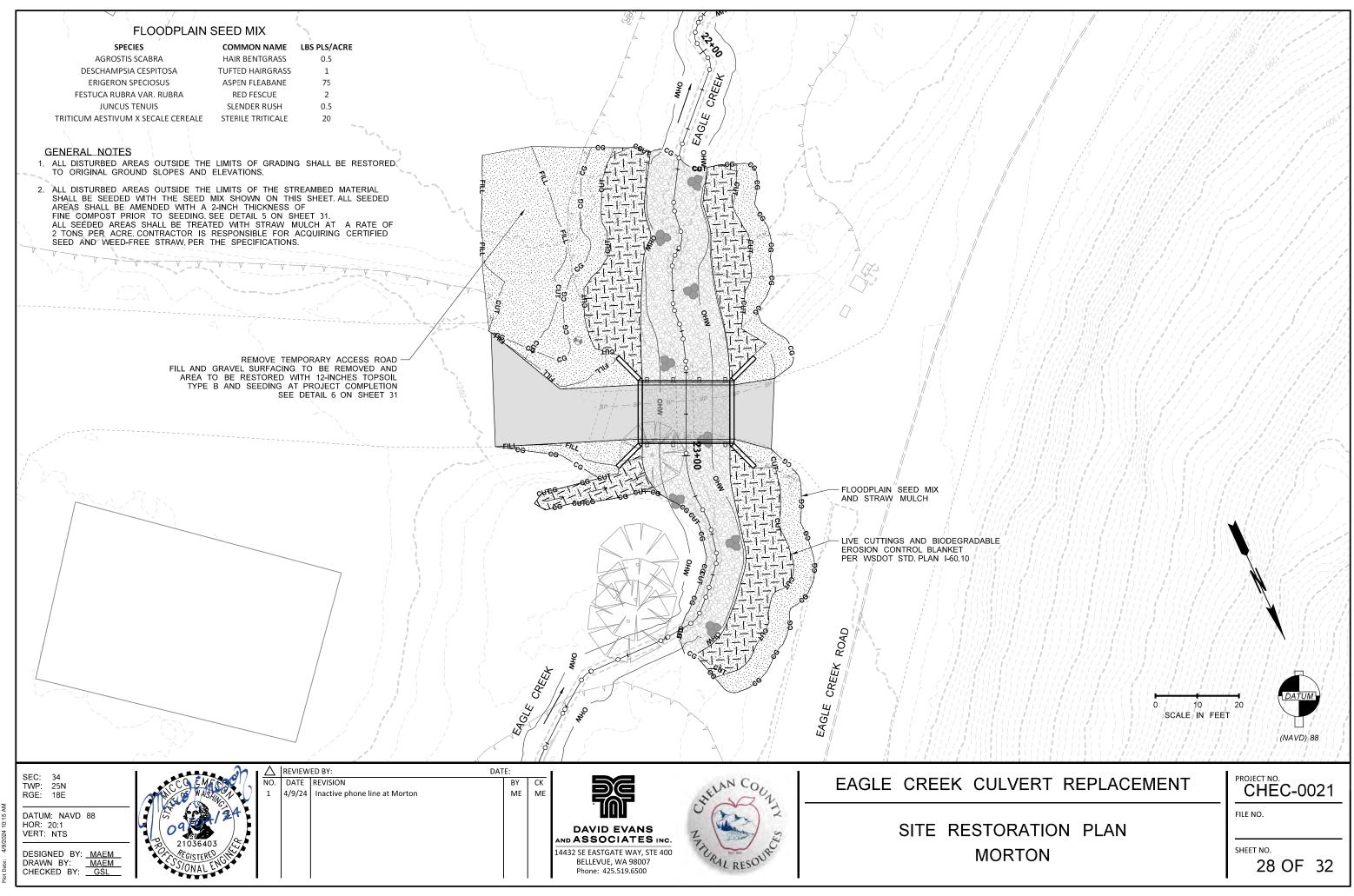


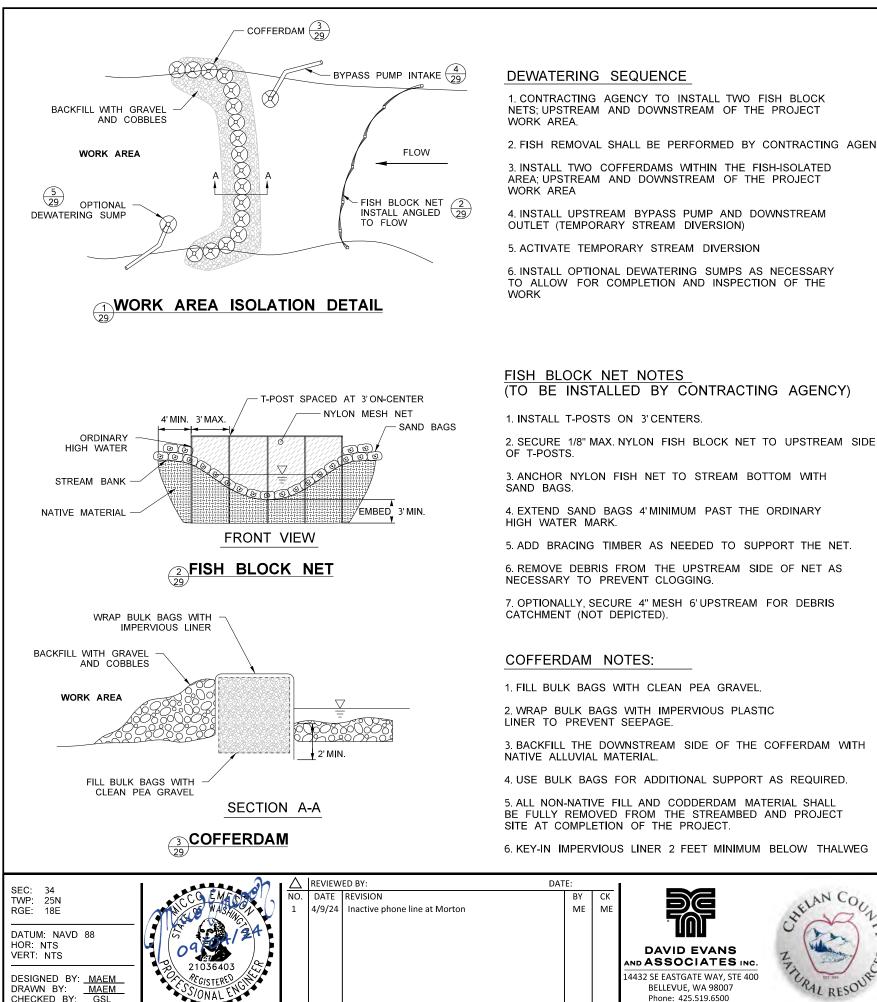
Т	angent #1	(Curve #5	Ta	ingent #8	
P.T.	22+27.30	P.C.	22+68.27	P.T.	23+18.94	
Direction	N 31^21'09.7" E	P.C. P.I.	22+70.11	Direction	N 11^48'56.7"	
Length	10.75	P.T.	22+70.11	Length	5.69	
	Curve #1	Radius	14.00		5.69 Curve #9	
P.C.	22+38.04	Delta	13^59'56.0" RT.	P.C.		
P.I.	22+38.04		3.67	P.C. P.I.	23+24.64 23+25.92	
		Length				
P.T.	22+40.15	Tangent	1.84	P.T.	23+27.15	
Radius	10.00		angent #6	Radius	16.00	
Delta	24^07'41.1" LT.	P.T.	22+71.94 N 17^55'50.5" E	Delta Length	28^50'22.0" RT	
Length	2.11	Direction		0	2.52	
Tangent	1.07			Tangent 1.29		
	angent #2		Curve #6		ingent #9	
P.T.	22+40.15	P.C.	22+77.27	P.T.	23+27.15	
Direction	N 7^13'28.6" E	P.I.	22+78.13	Direction	N 40^39'18.7"	
Length	5.12	P.T.	22+78.99	Length	6.02	
	Curve #2	Radius	15.00		urve #10	
P.C.	22+45.27	Delta	6^35'44.1" RT.	P.C.	23+33.17	
P.I.	22+47.43	Length	1.73	P.I.	23+34.40	
P.T.	22+49.35	Tangent	0.86	P.T.	23+35.62	
Radius	11.00		ingent #7	Radius	17.00	
Delta	46^41'17.0" RT.	P.T.	22+78.99	Delta	5^36'38.4" RT.	
Length	4.07	Direction	N 24^31'34.6" E	Length	2.45	
Tangent	2.16	Length	20.38	Tangent	1.23	
	angent #3		Curve #7		ngent #10	
P.T.	22+49.35	P.C.	22+99.37	P.T.	23+35.62	
Direction	N 53^54'45.6" E	P.I.	23+06.73	Direction	N 46^15'57.1"	
Length	2.02	P.T.	23+13.68	Length	4.13	
	Curve #3	Radius	16.00		urve #11	
P.C.	22+51.36	Delta	32^48'09.0" LT.	P.C.	23+39.75	
P.I.	22+52.74	Length	14.31	P.I.	23+41.44	
P.T.	22+54.05	Tangent	7.36	P.T.	23+43.01	
Radius	12.00		Curve #8	Radius	18.00	
Delta	30^42'41.1" LT.	P.C.	23+13.68	Delta	37^17'09.7" RT	
Length	2.68	P.I.	23+16.34	Length	3.25	
Tangent	1.37	P.T.	23+18.94	Tangent	1.69	
Ta	angent #4	Radius 15.00		Tangent #11		
P.T.	22+54.05	Delta	20^05'31.2" RT.	P.T.	23+43.01	
Direction	N 23^12'04.5" E	Length	5.26	Direction	N 83^33'06.8"	
Length	9.05	Tangent	2.66	Length	6.39	
-	Curve #4					
P.C.	22+63.10	1				
P.I.	22+63.94	1				
P.T.	22+64.78	1				
Radius	13.00	1				
Delta	19^16'10.1" LT.	1				
Length	1.68	1				
Tangent	0.85	1				
	angent #5	1				
P.T.	22+64.78	1				
Direction	N 3^55'54.5" E	1				
	3.49	1				
Length						











DEWATERING SEQUENCE

1. CONTRACTING AGENCY TO INSTALL TWO FISH BLOCK NETS; UPSTREAM AND DOWNSTREAM OF THE PROJECT

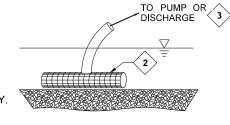
2. FISH REMOVAL SHALL BE PERFORMED BY CONTRACTING AGENCY

3. INSTALL TWO COFFERDAMS WITHIN THE FISH-ISOLATED AREA; UPSTREAM AND DOWNSTREAM OF THE PROJECT

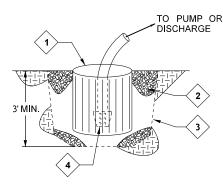
4. INSTALL UPSTREAM BYPASS PUMP AND DOWNSTREAM OUTLET (TEMPORARY STREAM DIVERSION)

5. ACTIVATE TEMPORARY STREAM DIVERSION

6. INSTALL OPTIONAL DEWATERING SUMPS AS NECESSARY TO ALLOW FOR COMPLETION AND INSPECTION OF THE







DEWATERING SUMP

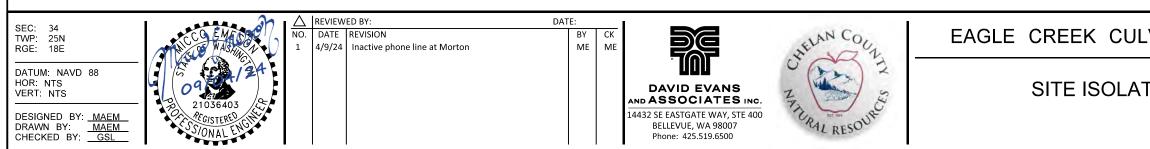


PLASTIC LINING

PLACE STRAW BALES IN A RING FORMATION

PUMP DISCHARGE

PLASTIC LINING SAND BAG STRAW BALE



NOTES:

1. STREAM BYPASS INTAKE SHALL REST ON EXISTING STREAMBED.

2 PUMP INTAKE SHALL BE FITTED WITH FISH SCREEN MEETING APPLICABLE RCW SECTIONS (RCW 77.57.010 AND 77.57.070), AS WELL AS NMFS CRITERIA SEE SECTION 7-06.3(5) FOR MORE INFORMATION.

3. PUMP CAPACITY SHALL BE SIZED TO CONVEY THE ENTIRETY OF STREAMFLOW WITHOUT DEWATERING THE CHANNEL OUTSIDE THE ISOLATED WORK AREA VARIABLE PUMPING MAY BE REQUIRED. SEE PROJECT PERMITS AND SECTION 7-06.3(2)B FOR MORE INFORMATION.

NOTES:

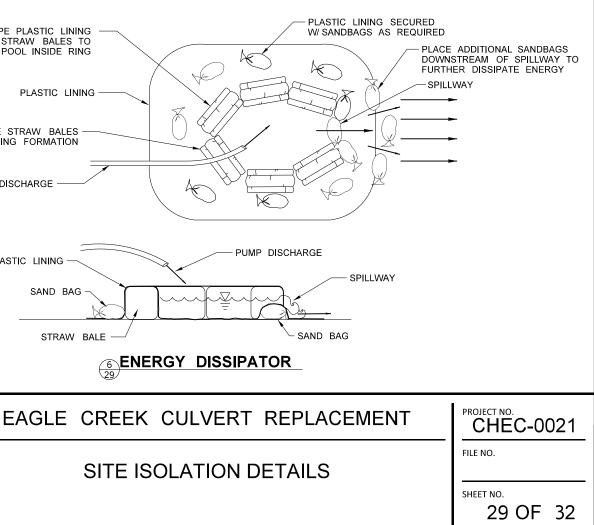
1. CORRUGATED PLASTIC OR METAL PIPE 36" MIN DIAMETER PERFORATED PIPE, ONE PER EACH PUMP.

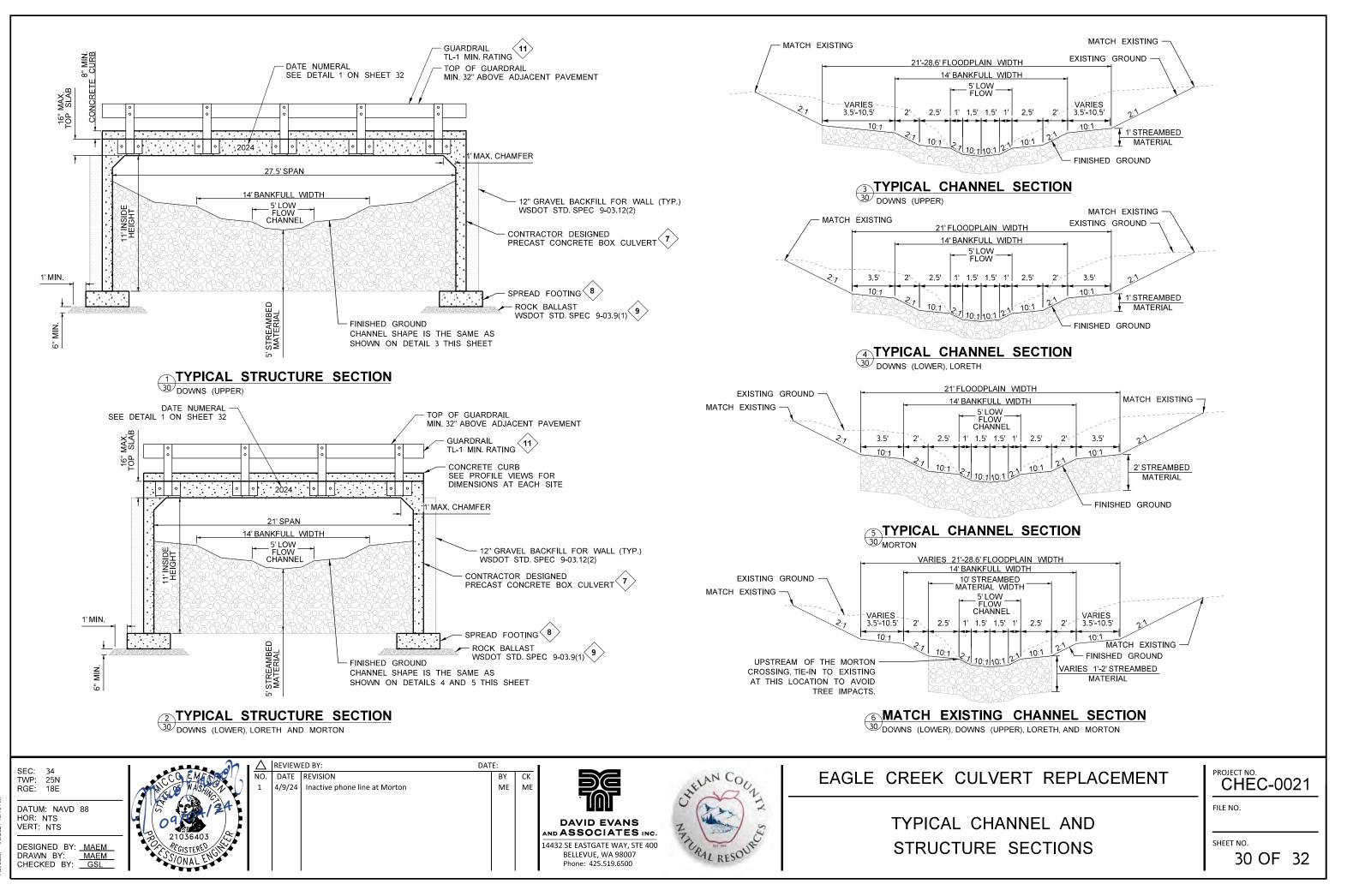
2. STREAMBED SEDIMENT.

3. LIMIT OF EXCAVATION. INSTALL PIPE AND BACKFILL WITH STREAMED SEDIMENT.

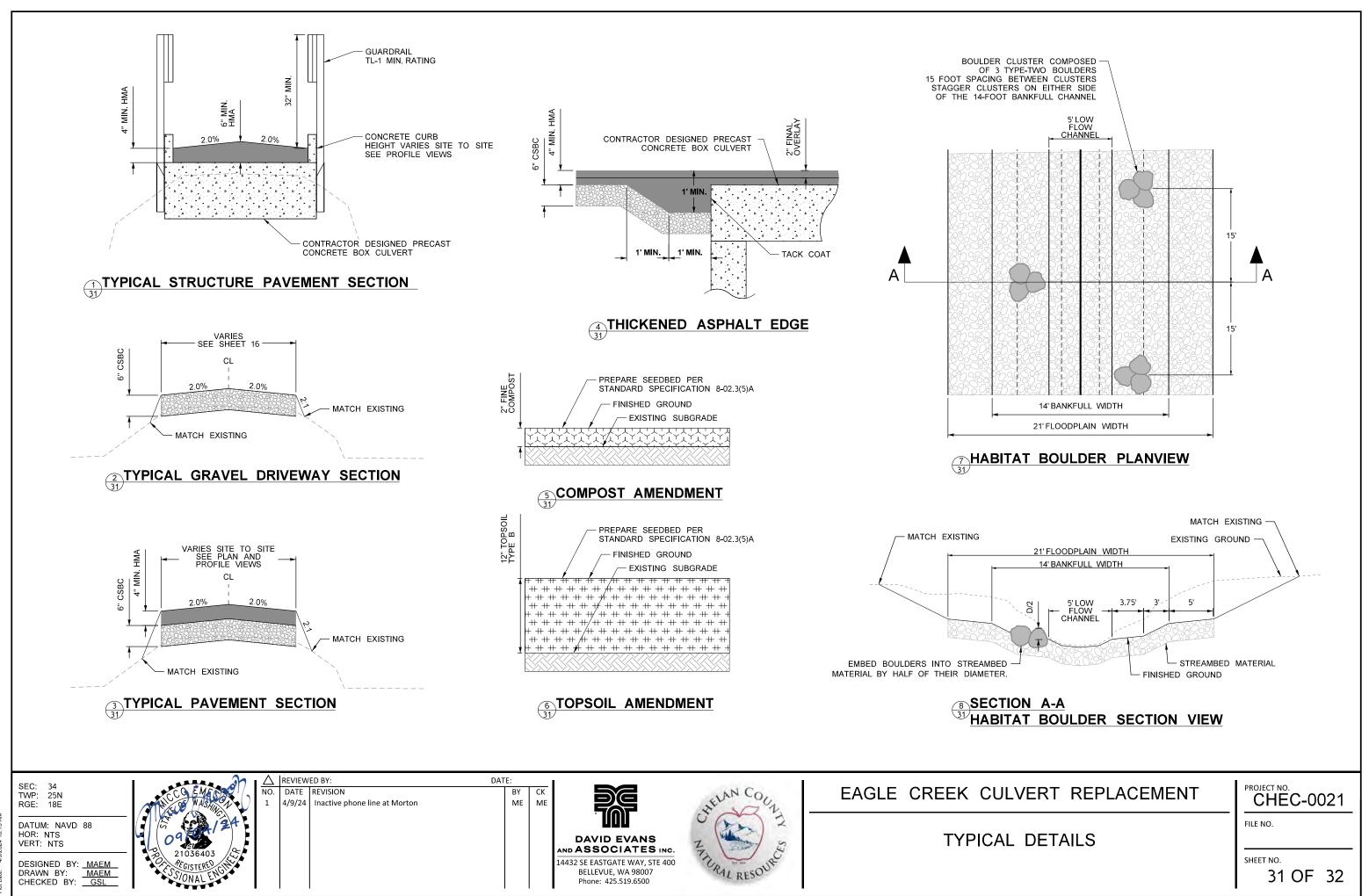
4. PUMP INTAKE SHALL BE FITTED WITH FISH SCREEN MEETING RCW 77 57.010 AND RCW 77.57.070 SEE SECTION 7-06.3(5) FOR MORE INFORMATION.

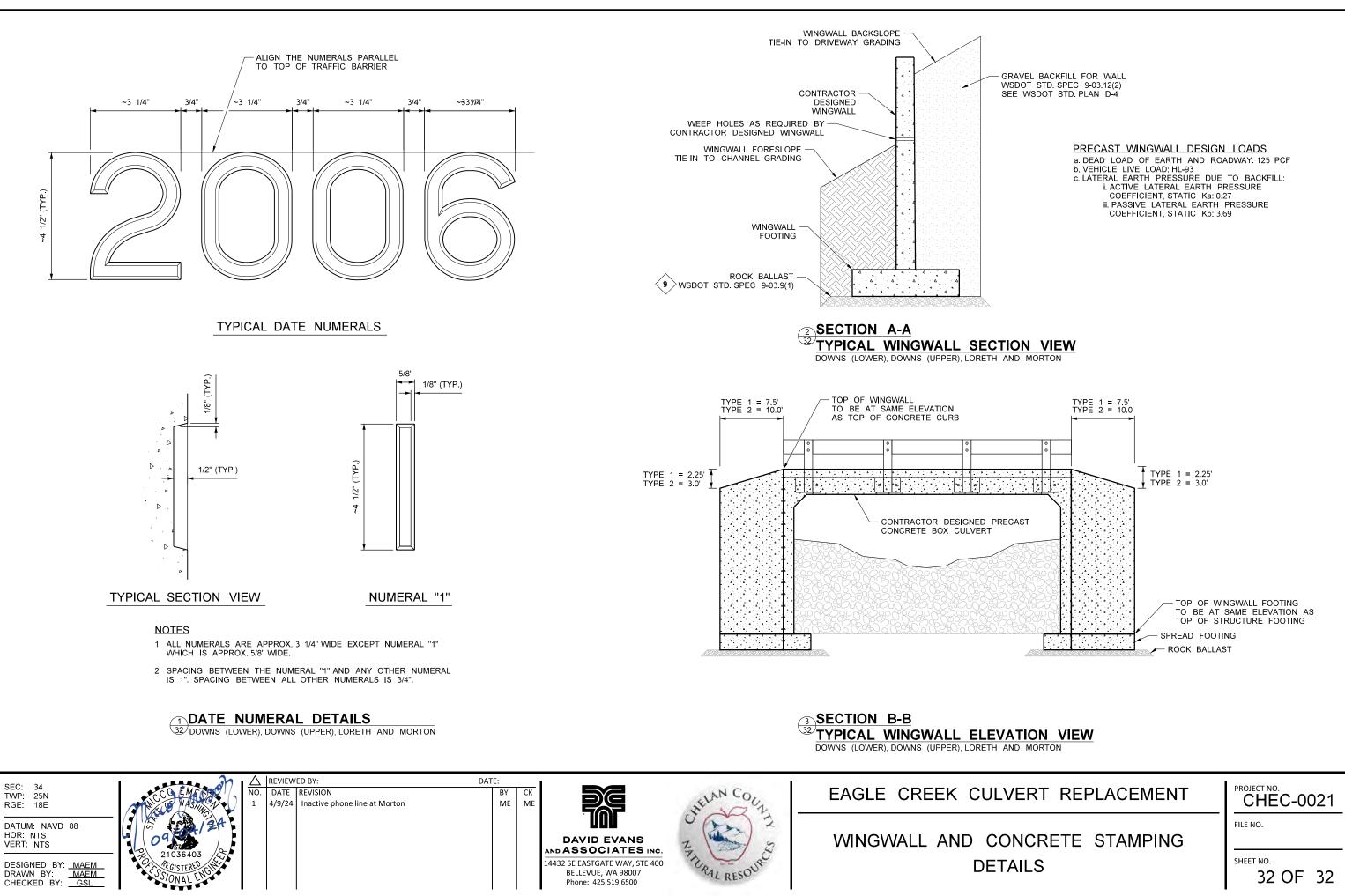
5. THE INTENT OF DEWATERING PUMPS IS TO REMOVE GROUNDWATER OR SURFACE WATER WHICH SEEPS INTO THE ISOLATED WORK AREA DEWATERING PUMPS ARE OPTIONAL, IF USED, DEWATERING PUMPS SHALL BE OPERATED IN SUCH A WAY THAT NO PORTION OF THE STREAMBED OUTSIDE THE ISOLATED WORK AREA BECOMES DEWATERED.





By: Maem Plot Date: 4/9/2





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