

FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

Application # PRPWFP20223669 (Chipman Road CIP, 72-322)

Date: August 3, 2022

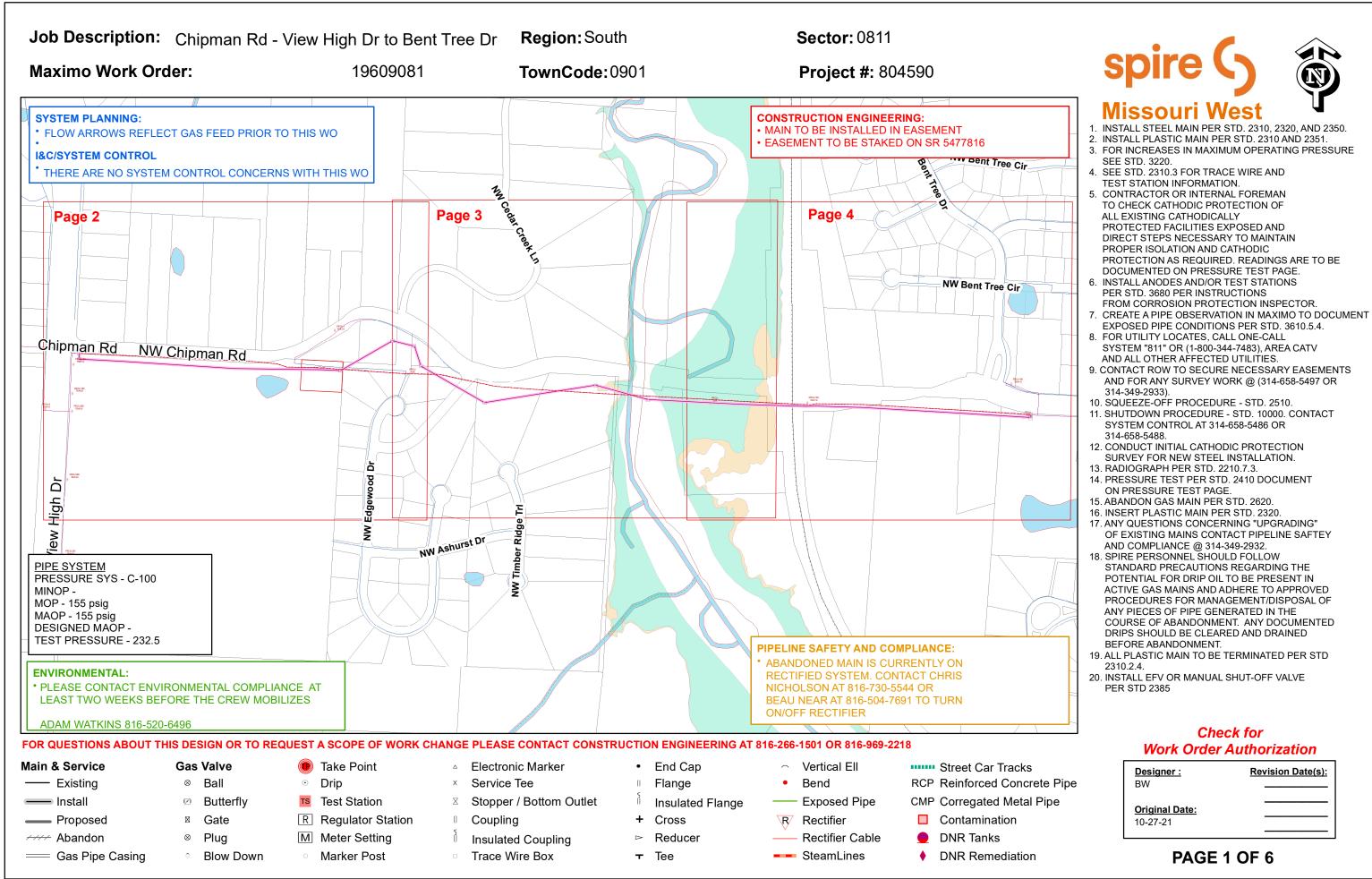
TO THE ADMINISTRATOR: The undersigned hereby makes application for a permit to develop in a floodplain. The work to be performed, including flood protection works, is as described below and in attachments hereto. The undersigned agrees that all such work shall be done in accordance with the requirements of the Floodplain Management Ordinance, with all other applicable county/city ordinances, and the laws and regulations of the State of Missouri.

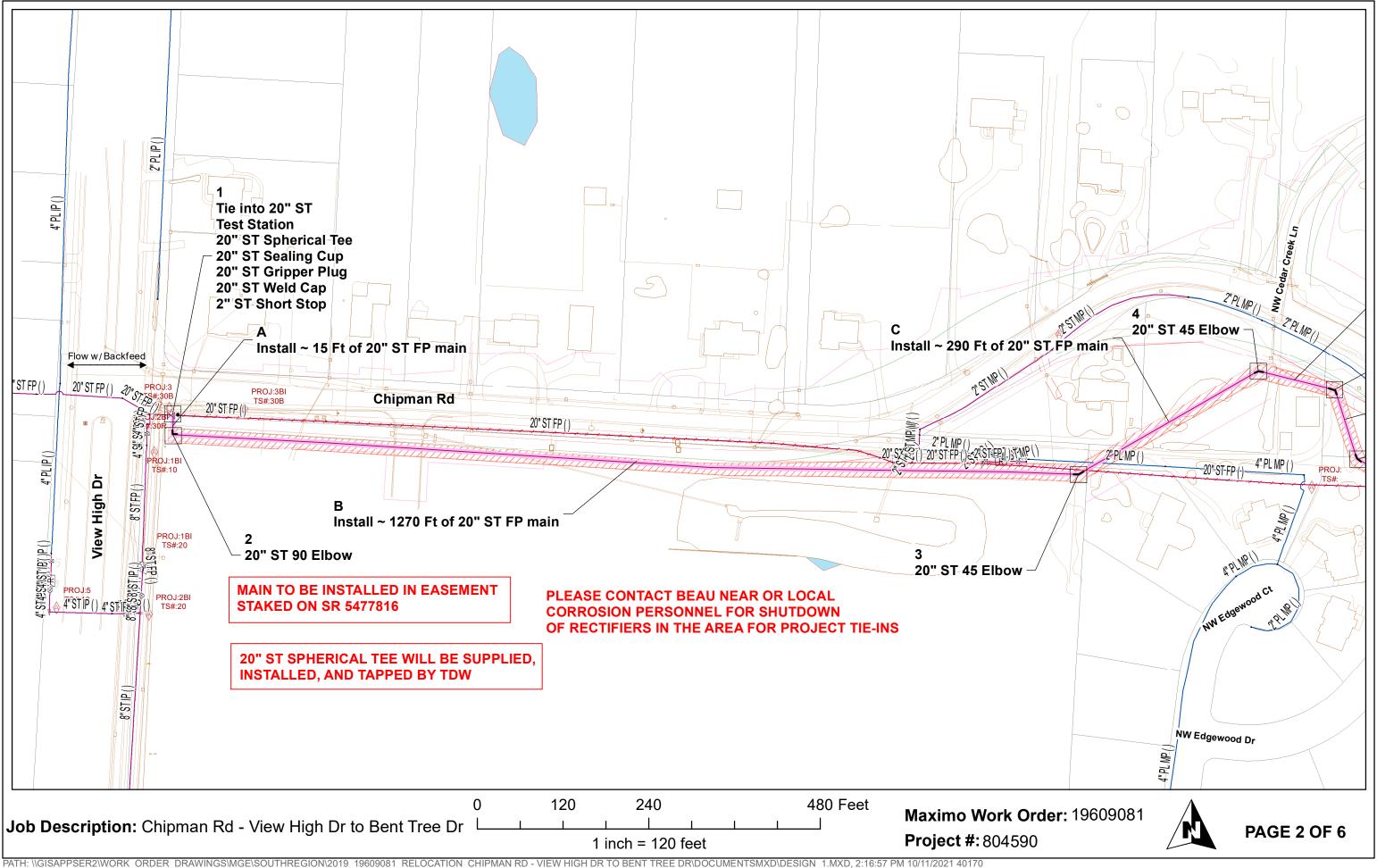
		Adam Watkins Contact Person for this Application	
700 Market St., St. Louis, MO, 63101 Address		7500 E. 35th Ter., Kansas City, MO, 64129 Address	
_		n.watkins@spireenergy.com; (816) 360-5678	
Phone		Email and Phone	
SIT	SITE INFORMATION		
1.	1. Location: <u>NW</u> 1/4; <u>NW</u> 1/4; Section <u>03</u> ; Tow	nship; Range32	
	Property Address: 3381 NW Chipman Rd Lees Summit, MO		
2.	2. Type of Development: Filling Grading X Excavation X Routine Maintenance New Construction		
3.	Description of Development: Installation of natural gas pipeline via horizontal directional drilling (HDD) and open trench methods. HDD will be		
	used in pipe sections traversing the floodplain and floodway. Existing grades will be restored such that no substantial change in topography will result.		
4.	4. Premises: Structure Size: N/A ft. x N/A ft. Area of site: N	J/Asq. ft.	
	Principal Use: Roadways & Easements Accessory Use	s (storage, parking, etc.): N/A	
5.	Value of Improvement (fair market): \$ N/A Pre-Improvement	ent/Assessed Value of Structure: \$ N/A	
6.	Property located in a designated FLOODWAY? Yes X No	(If Yes to Question 6, certification must be provided prior to perm	
7.		issuance indicating this project will result in no increase in the 1% base flood elevations.)	
8.	8. Elevation of the 1% Base Flood / 100-year flood (ID source): 812' (FEMA NF	HL Viewer) MSL/NGVD	
9.	Elevation of the proposed development site: N/A (below grade at crossing)	MSL/NGVD	
10.	Elevation/floodproofing requirement; N/A	MSL/NGVD	
11.	11. Other floodplain elevation information/FIRM panel numbers (ID and describe sour	ce): FIRM Panels: 29095C0412G (FEMA NFHL Viewer)	
12.	12. Other Permits required? Corps of Engineer 404 Permit: MO Dept. of Natural Resources:	Yes No X Provided Yes No X Provided	
NO	NOTE: All provisions of City of Lee's Summit UDO Article 6, Division II, Floodplain Ma	nagement Ordinance, shall be in compliance.	
API	APPLICATION APPROVAL/DENIAL		
	Plans and Specifications Approved X / Denied this 10th Day Craig R. Hoeferlin	of August , 20 22	
Sign	Signature of Developer/Owner Author	orizing Official	
		orge M. Binger III, P.E. / City Engineer Name and Title	
SUE	IF APPROVED, THIS PERMIT REQUIRES A CONDITION THAT THE LOWEST FLOOR SUBSTATIVIALLY-IMPROVED RESIDENTIAL BUILDING WILL BE ELEVATED 2 PROPOSED DEVELOPMENT IS A NON-RESIDENTIAL BUILDING, PERMIT APPROVINCE UNCLUDING BASEMENT) OF A NEW OR SUBSTANTIALLY IMPROVED NON-RESIDENTIAL BUILDING PERMIT APPROVED THE PASSE OF THE PA	FEET ABOVE THE BASE FLOOD ELEVATION. IF THE VAL WILL REQUIRE A CONDITION THAT THE LOWEST FLOOR	

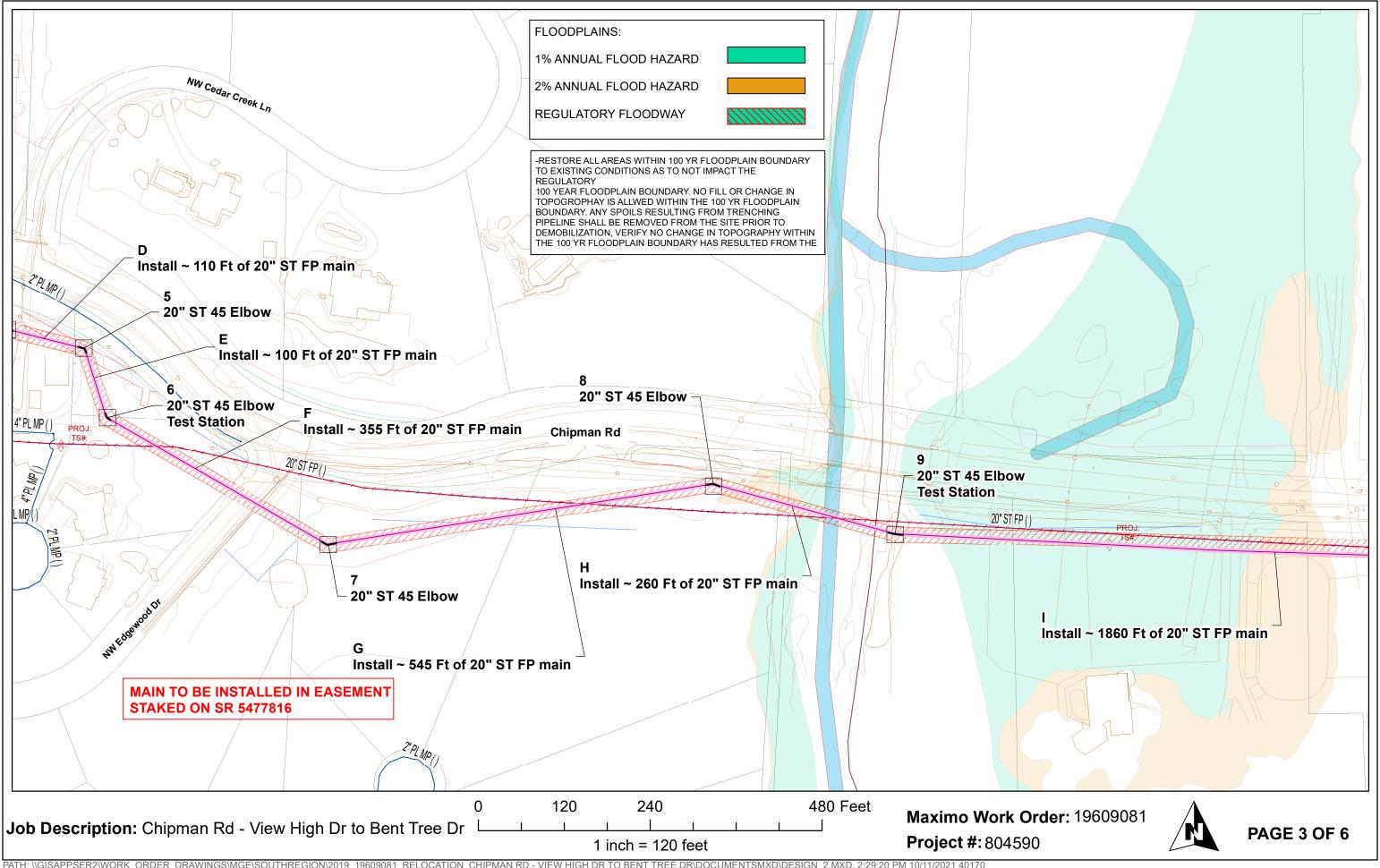
THIS APPLICATION IS USED WITH THE CONDITION THAT THE DEVELOPER/OWNER WILL PROVIDE CERTIFICATION BY A REGISTERED ENGINEER, ARCHITECT, OR LAND SURVEYOR OF THE "AS-BUILT" LOWEST FLOOR (INCLUDING BASEMENT) ELEVATION OF ANY NEW OR SUBSTANTIALLY-IMPROVED BUILDING COVERED BY THIS PERMIT APPLICATION.

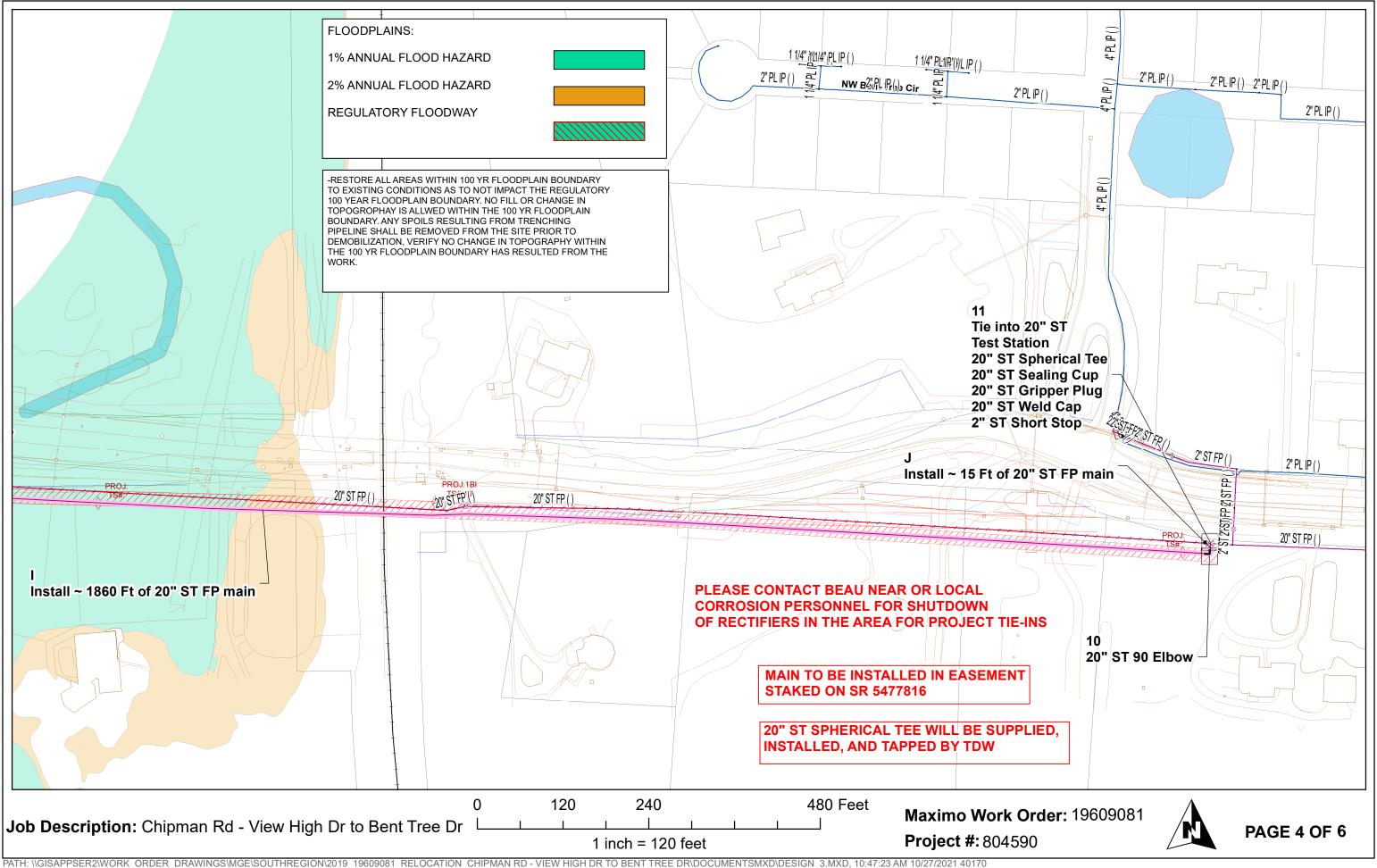
Signature: Craig R. Hoeferlin
Coalg R. Hoeferlin (Aug 1, 2022 ON:17 CDT)

Email: craig.hoeferlin@spireenergy.com









GENERAL NOTES

- 1. CONTRACTOR SHAL PERFORM ALL WORK IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL LAWS AND REGULATIONS AS DEFINED BY THE CONTRACT DOCUMENTS, SPECIFICATIONS, DRAWINGS, ENVIRONMENTAL PLANS, AND PERMIT STIPULATIONS.
- 2. CLIENT ENGINEERING SHALL APPROVE ANY DEVIATIONS FROM THE CONSTRUCTION DRAWINGS PRIOR TO INSTALLATION.
- 3. INFORMATION CONTAINED ON THESE DRAWINGS MUST BE CONSIDERED PROJECT SPECIFIC AND MUST NOT BE USED FOR ANY OTHER PURPOSE.
- 4. INFORMATION PERTAINING TO NEW ROADWAYS, EXISTING LINE LOCATIONS, RIGHT-OF-WAY BOUNDARIES, AND ALL ELEVATION DATA MUST BE CONSIDERED AS APPROXIMATE ONLY.
- 5. CONTRACTOR MUST FIELD-VERIFY ALL INFORMATION SHOWN PRIOR TO CONSTRUCTION. STANDARDS.
- 6. CONTRACTOR TO FURNISH AND MAINTAIN SAFETY AND SECURITY MEASURES AS NECESSARY TO ENSURE PUBLIC SAFETY.
- 7. CONTRACTOR SHALL ESTABLISH AND MAINTAIN BASE LINES AND BENCHMARKS CONVENIENT TO THE WORK, AND PROVIDE HORIZONTAL AND VERTICAL CONTROL FOR THE DETAILED CONSTRUCTION REQUIREMENTS.

UTILITY NOTES

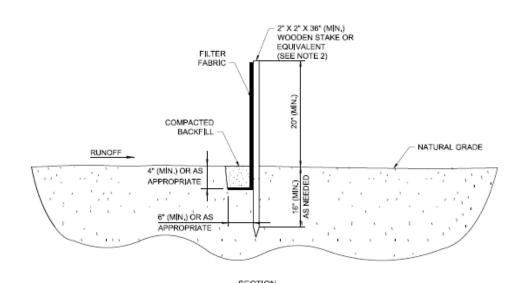
- 1. CONTRACTOR MUST CONTACT 811 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 2. THE LOCATIONS OF BURIED AND ABOVE GROUND UTILITIES SHOWN ON THE DRAWING ARE FOR CONTRACTOR INFORMATIONAL USE ONLY AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE COMPANY, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE.
- 3. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, MARKING, AND PROTECTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND COMPANY, SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CONSTRUCTION NOTES

- 1. ALL WORK PERFORMED BY CONTRACTOR/SUBCONTRACTOR, INCLUDING TASKS THAT AFFECT THE OPERATIONS OR INTEGRITY OF THE PIPELINE (COVERED TASKS) PER THE DEFINITIONS SET FORTH IN DOT REGULATIONS 49 CFR PARTS 192 OR 195 (OPERATOR QUALIFICATIONS REQUIREMENTS), MUST BE PERFORMED OR SUPERVISED BY QUALIFIED INDIVIDUALS AS DEFINED IN SUCH OQ REQUIREMENTS. CONTRACTOR AGREES TO FURNISH COMPANY REPRESENTATIVE WITH ALL OQ DOCUMENTATION PRIOR TO START OF WORK.
- 2. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ALL COMPANY STANDARDS AND SHALL CONFORM TO ANSI B31.4 LATEST EDITION.
- 3. THE EXCAVATIONS FOR THIS PROJECT SHALL BE CARRIED OUT IN ACCORDANCE WITH O.S.H.A. REGULATIONS. PROVISIONS FOR WORKER PROTECTION WITHIN EXCAVATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 4. CONTRACTOR TO EXCAVATE AND RESTORE DISTURBED AREAS TO ORIGINAL CONDITIONS OR BETTER, AND IS RESPONSIBLE FOR ALL RESEEDING, MULCH, GRAVEL, FENCING, ETC., NECESSARY FOR RESTORATION.
- 5. MINIMUM DEPTH OF PIPE COVER FOR NEW INSTALLATIONS IS 3 FEET, UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION.
- 7. CONTRACTOR TO EXPOSE EXISTING LINE(S) AS REQUIRED FOR TIE-IN OR FIELD BEND(S) FOR FINAL ALIGNMENT.
- 8. CONTRACTOR TO FIELD VERIFY COATING ON EXISTING PIPE AND INSTALL CORRESPONDING TIE-IN GIRTH WELD COATING PER COMPANY STANDARD.
- 9. ANY DAMAGE TO THE PIPE COATING SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR. HOLIDAYS AND COATING DAMAGE ON FBE COATING SHALL BE RECOATED PER COMPANY STANDARDS.
- 10. CONTRACTOR SHALL PROVIDE ALL PRESSURE TESTING MATERIALS, INCLUDING BUT NOT LIMITED TO TEST MANIFOLDS, VALVES, GAUGES, PUMPS, HOSES, AND CALIBRATED TEST INSTRUMENTS, ETC., TO PERFORM THE PROJECT SCOPE.
- 11. CONTRACTOR IS RESPONSIBLE FOR ALL WATER HAULING AND DISPOSAL. WATER FILL AND DISCHARGE SITES SHALL BE IN ACCORDANCE WITH APPLICABLE PERMITS.
- 12. CONTRACTOR IS REPSONSIBLE FOR ALL DRILLING MUD HAULING AND DISPOSALTO APPROPIATE DISCHARGE SITES.
- 13. THE SITE SHALL BE CLEARED OF ALL ORGANIC AND DELETERIOUS MATERIAL TO NATURAL GRADE, UNLESS PROHIBITED BY PERMIT STIPULATIONS, REMOVE ALL BELOW-GRADE STUMPS, ROOTS, LOGS, AND DELETERIOUS MATERIAL. MATERIAL FROM CLEARING AND GRUBBING OPERATIONS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN APPROVED LANDFILL. MAINTAN THE WORK SITE CLEAR OF DEBRIS AND RUBBISH.
- 14. EXISTING FACILITIES ALONG WITH TREES OR VEGETATION TO REMAIN UNDISTURBED SHALL BE DESIGNATED BY THE CLIENT. THE CONTRACTOR SHALL MARK AND PROTECT THESE ITEMS DURING THE COURSE OF CONSTRUCTION.
- 15. CONTRACTOR SHALL LOCATE SOURCES AND PROVIDE TEMPORARY STOCKPILE SITES FOR SUITABLE FILL MATERIAL AND EXCESS SPOIL. FILL MATERIAL SHALL BE APPROVED BY THE CLIENT FIELD REPRESENTATIVE BEFORE USE. NO EXCESS MATERIAL OR SPOIL IS ALLOWED WITHIN THE FLOODPLAIN AREA.
- 16. CONTRACTOR SHALL PROVIDE TEMPORARY CONSTRUCTION FENCE, SILT FENCE, TIMBER MATS, STRAW BALES, DRAINAGE, DEWATERING, AND EROSION CONTROL TO PROTECT EXISTING FACILITIES AND COMPLETED/IN PROGRESS WORK.
- 17. UTILIZE BEST PRACTICES TO MAINTAIN MINIMUM VERTICAL AND HORIZONTAL DISTANCES AT UTILITY CROSSINGS. MINIMUM 24" VERTICAL SEPARATION WHERE APPLICABLE.
- 18. CONTRACTOR SHALL NOT STAGE MATERIALS, EQUIPMENT, SANITARY FACILITIES, OR VEHICLES WITHIN THE MAPPED FLOODPLAIN.
- 19. CONTRACTOR SHALL NOT WORK DURING, OR WITHIN 48 HOURS OF HEAVY OR PERSISTENT RAIN EVENTS IN THE AREA DUE TO FLOOD RISKS IN THE AREA. BACKFILL ALL OPEN EXCAVATIONS WITHIN THE MAPPED FLOODPLAIN PRIOR TO FORECASTED RAIN EVENTS.
- 20. ALL AREAS WITHIN THE 100 YR FLOODPLAIN BOUNDARY TO BE RESTORED TO EXISTING CONDITIONS AS NOT TO IMPACT THE REGULATORY 100 YE FLOODPLAIN BOUNDARY, NO FILL OR CHANGE IN TOPOGRAPHY IS ALLOWED WITHIN THE 100 YR FLOODPLAIN BOUNDARY. ANY SPOILS RESULTING FROM DRILLING ACTIVITIES OR ANY EXCESS MATERIAL RESULTING FROM TRENCHING PIPELINE SHALL BE REMOVED FROM THE SITE. PRIOR TO DEMOBILIZATION VERIFY NO CHANGE IN TOPOGRAPHY WITHIN THE 100 YR FLOODPLAIN BOUNDARY HAS RESULTED FROM THE WORK.

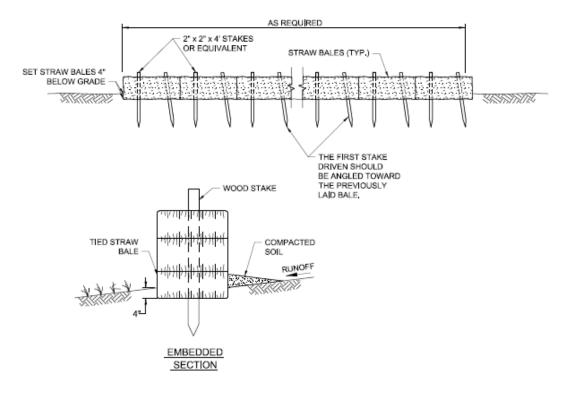
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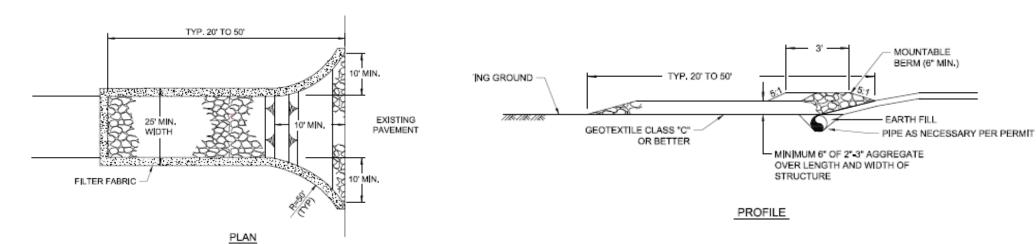
NOTES

- SILT FENCES ARE TO BE USED IN AREAS WHERE SHEET FLOW OR RELATIVELY SMALL VOLUMES OF WATER CAN BE EXPECTED TO OCCUR, FOR LARGER VOLUMES SUCH AS WITHIN A DEFINED CHANNEL, A CHECK DAM WILL BE REQUIRED.
- 2. STAKES ARE TO BE PLACED A MINIMUM OF 10 FEET APART, AS DIRECTED BY ENVIRONMENTAL INSPECTOR,
- 3, ATTACH FILTER FABRIC AT EACH POST AT A MINIMUM OF (3) LOCATIONS,
- THE FILTER FABRIC (MIN. 12 INCHES) IS TO BE ANCHORED IN AN APPROPRIATE TRENCH WITH WELL COMPACTED BACKFILL OVER THE FABRIC AS SHOWN TO PREVENT UNDERMINING.
- 5, TO ELIMINATE POSSIBLE END FLOW, BOTH ENDS OF THE SILT FENCE SHALL BE TURNED AND EXTENDED UP SLOPE AS DIRECTED BY ENVIRONMENTAL INSPECTOR.
- 6, SILT FENCES ARE TO BE CHECKED AND MAINTAINED ON A REGULAR BASIS AND IN ACCORDANCE WITH PERMIT REQUIREMENTS, REMOVE ANY BUILD-UP OF SEDIMENT WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS APPROXIMATELY 50% OF THE HEIGHT OF THE BARRIER
- MATERIAL SHOULD BE WOVEN GEOTEXTILE FABRIC, SECONDARY REINFORCEMENT, SUCH AS A CONSTRUCTION BARRIER FENCE OR WIRE MESH CAN ALSO BE USED BEHIND THE FILTER FABRIC,
- WHERE ANCHORING CONDITIONS FOR THE SILT FENCE ARE POOR, PLACE ANCHORED STRAW BALES OR SANDBAGS ON UPSTREAM/DOWNSTREAM SIDE OF THE SILT FENCE AS REQUIRED.
- 9. STAKED STRAW BALES MAY NOT BE USED IN LIEU OF SILT FENCE.



NOTES:

- EACH BALE SHOULD BE SECURED BY AT LEAST TWO STAKES, THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
- COMPACT EXCAVATED SOIL AS NECESSARY AGAINST THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING, SEGREGATED TOP SOIL MAY NOT BE USED FOR THIS PURPOSE.
- TO ELIMINATE POSSIBLE END FLOW, BOTH ENDS OF THE STRAW BALE BARRIER SHOULD BE TURNED AND EXTENDED UP SLOPE. EMBED BALES IN EARTH APPROXIMATELY 4 INCHES DEPENDENT UPON SOIL CONDITIONS.
- STRAW BALE BARRIERS REQUIRE CONTINUAL MAINTENANCE TO REMOVE COLLECTED SEDIMENT AND REPLACE DAMAGED BALES, MAINTAIN AND REPAIR DAMAGED BALES, END RUNS, AND UNDERCUT BALES AS NEEDED.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL, AS NECESSARY, THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.



Job Description: |Chipman Rd - View High Dr to Bent Tree Dr

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