



SEGMENT F.1
PROJECT 12-777XF1

PERMITS

**ISSUED FOR BIDDING
NOT FOR CONSTRUCTION
(VOLUME 5 OF 5)**

AUGUST 2026

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Attachment 5.1 – General Permitting Matrix



GENERAL PERMITTING MATRIX THORNTON WATER PROJECT - SEGMENT F.1

ID	Authority	Permit / Agreement	Responsible Party	Issues / Notes
State of Colorado				
S1	CDPHE	CDPS General Permit, Permit Number COR-040000, Stormwater Discharge	Contractor	Contractor Pre-Construction Submittal using PIC documents
S2	CDPHE	CDPS General Permit, Permit Number COG-080000, Construction Dewatering	Contractor	Contractor Pre-Construction Submittal
S3	CDPHE	CDPS General Permit, Permit Number COG-604000, Hydrostatic Testing Discharge	Contractor	Contractor Pre-Construction Submittal
S4	CDPHE	CDPS General Permit, Permit Number APCD-223, General Air Emission Notice (APEN) and Application for Construction Permit	Contractor	Contractor Pre-Construction Submittal
S5	CDPHE	State Waters Dredge and Fill Permit	ERO, Thornton	Covers State Waters / Wetlands not covered by definition of the CWA.
S6	CDPHE	Asbestos Abatement Notification and Permit	Contractor	Needed if Contractor encounters or damages any existing AC Pipe
S7	CPW	Migratory Bird Treaty Act (MBTA)	ERO, Contractor	ERO Nest Survey / Protection Strategy Consultation. Adhere to requirements listed in Specification 01 41 10.
		Bald & Golden Eagle Protection Act (BGEPA)		
S8	DWR	Notice of Intent to Install Temporary GW Monitoring Well (GWS-51)	Thornton	CMT filed NOI prior to the installation of groundwater monitoring wells
S9	DWR	Well Construction and Yield Estimate Report (GWS-31)	Thornton	CMT filed report
S10	DWR	Monitoring / Observation Well Permit (GWS 46)	Thornton	CMT will convert from temp to permanent if well is in >18 months
S11	DWR	Well Abandonment Report (GWS-09) (See Alignment Permitting Matrix)	Contractor	Contractor to abandon groundwater wells during construction and file report GWS-09 online.
S12	DWR	Temporary Construction Dewatering Permits (GWS-62)	Contractor	Contractor shall secure temporary construction dewatering wells using GWS-62 (NH & DW Notice eForm)
S13	CDOT	Utilities & Special Use Permit, State Highway 1 (See Alignment Permitting Matrix)	Contractor	Contractor Pre-Construction Submittal
S14	CDOT	Temp Access Permits, State Highway 1 (See Alignment Permitting Matrix)	Contractor	Contractor Pre-Construction Submittal
S15	CDOT	Oversize / Overweight Permit	Contractor	Contractor Pre-Construction Submittal
Larimer County				
LC 1	Larimer Co. Planning	Site Development Plan Review (Technical Review)	Thornton, Engineer	Technical design review and approval by the County
LC2	Larimer Co. Planning	1041 Permit Conditions of Approval	Thornton, Engineer, Contractor	There are numerous conditions of approval (COAs) that are required per the Thornton's 1041 Permit. Contractor will be responsible for Thornton and Larimer County with a variety of plans and submittals in order for Thornton to obtain a Development Construction Permit (DCP)
LC 3	Larimer Co. Planning	Temporary Construction and Project Marketing Permit (Project Signs)	Thornton, Contractor	Thornton to confirm owner-furnished signs meet Landuse Code 10.7, Contractor to obtain installation permit(s).
LC 4	Larimer Co. Engineering	Right-of-Way Permit (See Alignment Permitting Matrix)	Contractor	Required for ROW crossing. Will have conditions appended to permit and will require Traffic Control Plan to be submitted.
LC 5	Larimer Co. Engineering	Permanent Access Permit	Thornton	Required for any permanent access point.
LC 6	Larimer Co. Engineering	Construction Access Permit (See Alignment Permitting Matrix)	Contractor	Required for any construction access point.
LC 7	Larimer Co. Engineering	Special Transport Permit	Contractor	Required for trucks being over legal weight and size.
LC 8	Larimer Co. Engineering	Electrical Permit	Contractor	Maybe required for electrical work associated with powering the CP Rectifier Station.
LC 9	Larimer Co. Engineering	Development Construction Permit	Thornton, Contractor	Contractor will be responsible for Thornton and Larimer County with a variety of plans and submittals in order for Thornton to obtain a Development Construction Permit (DCP).
Federal				
F1	USACE / Larimer County	Wetland and Waters Crossing Compliance	ERO, Thornton, Contractor	Contractor to follow protection and restoration requirements as documented in the Contract Documents.

Attachment 5.2 – Alignment Permitting Matrix

ALIGNMENT PERMITTING MATRIX
THORNTON WATER PROJECT - SEGMENT F.1

Station	Permit / Agreement / License	ROW / Ditch / Utility	Property / Authority / Easement Owner / Steward	Details / Notes	Responsible Party
32+06	Crossing Agreement	Gas Line	Xcel Energy	6" HP Steel	Thornton
33+39	Crossing Agreement	Gas Line	Xcel Energy	Size Unknown	Thornton
33+45	Crossing Agreement	Gas Line	Xcel Energy	Size Unknown	Thornton
33+72	Crossing Agreement	Gas Line	Xcel Energy	(1) 1" PVC	Thornton
36+82	Crossing Agreement	Water Line	East Larimer County Water District	(1) 12" PVC	Thornton
42+25	Well Abandonment	TH-HOOD-2 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
42+67	Crossing Agreement	OHE Line	PVREA	Size Unknown	Thornton
50+59	Crossing Agreement	OHE Line	PVREA	Size Unknown	Thornton
65+62	Well Abandonment	TH-TIPS-2 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
66+95	Crossing Agreement	Larimer County Canal	Water Supply and Storage Company	Large Irrigation Canal	Thornton
67+68	Well Abandonment	TH-RRDI-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
68+27	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
69+54	Crossing Agreement	OHE Line	PVREA	Size Unknown	Thornton
74+78	Well Abandonment	TH-RRDI-3 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
75+73	Crossing Agreement	OHE Line	PVREA	Size Unknown	Thornton
75+78	Courtesy Notification Provided	Water line	East Larimer County Water District	6" Asbestos Cement	Thornton
76+32	Utility and Special Use Permit	Colorado SH 1	CDOT	State Highway Crossing	Contractor
76+32	Construction Access Permit	Colorado SH 1	CDOT	Access B	Contractor
76+93	Crossing Agreement	Irrigation Ditch	North Poudre Irrigation Company	Concrete Lined Canal	Thornton
77+17	Well Abandonment	TH-THOMPSON-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
92+36	Crossing Agreement	Gas Line	Xcel Energy	(1) 6" HP Steel	Thornton
94+69	Well Abandonment	TH-THOMPSON-3 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
95+00	Construction Access Permit	LCR 56	Larimer County	Access C	Contractor
103+94	Well Abandonment	TH-JACKSON-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
104+50	Construction Access Permit	LCR 56	Larimer County	Access D	Contractor

ALIGNMENT PERMITTING MATRIX
THORNTON WATER PROJECT - SEGMENT F.1

Station	Permit / Agreement / License	ROW / Ditch / Utility	Property / Authority / Easement Owner / Steward	Details / Notes	Responsible Party
114+99	Well Abandonment	TH-JACKSON-2 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
116+81	Courtesy Notification Provided	Water Line	Private	(1) 2" PVC	Thornton
125+30	Construction Access Permit	LCR 56	Larimer County	Access E	Contractor
125+30 - 173+87	Right-of-Way Construction Permit	County Road No. 56	Larimer County	Permit for construction between Station 125+30 to 173+87	Contractor
125+32	Courtesy Notification Provided	Water Line	East Larimer County Water District	(1) 8" PVC	Thornton
129+39	Crossing Agreement	Annex No. 8 Outlet Line	Windsor Reservoir & Canal Company	(1) 48" RCP	Thornton
133+76	Crossing Agreement	Electric Line	PVREA	(1) 3" PVC	Thornton
134+18	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
135+08	Courtesy Notification Provided	Irrigation Culvert	Private	(1) 15" to 18" Clay	Thornton
136+31	Courtesy Notification Provided	Water Line	East Larimer County Water District	(1) 2" PVC	Thornton
151+76	Crossing Agreement	Electric Line	PVREA	(1) 4" PVC, (1) 2" PVC	Thornton
151+97	Well Abandonment	TH-LCROW-3 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
152+26	Courtesy Notification Provided	Gas Line	Colorado Department of Natural Resources - Orphan Well Program	(1) 2" Poly	Thornton
155+95	Courtesy Notification Provided	Gas Line	Colorado Department of Natural Resources - Orphan Well Program	(1) 8" Steel	Thornton
156+70	Crossing Agreement	Reservoir Outlet Pipe	Windsor Reservoir & Canal Company	(1) 60" Arch RCP / 54" HDPE Slipline	Thornton
156+70	Crossing Agreement	Electric Line	Windsor Reservoir & Canal Company	Unknown	Thornton
159+39	Well Abandonment	TH-LCROW-4 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
164+10	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
167+39	Well Abandonment	TH-LCROW-5 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
173+05	Well Abandonment	TH-THORNTON-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
173+89	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
173+99	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
174+08	Crossing Agreement	Electric Line	PVREA	(2) 2" & 8" PVC	Thornton
178+20	Crossing Agreement	Gas Line	Xcel Energy	(1) 8" Steel	Thornton

**ALIGNMENT PERMITTING MATRIX
 THORNTON WATER PROJECT - SEGMENT F.1**

Station	Permit / Agreement / License	ROW / Ditch / Utility	Property / Authority / Easement Owner / Steward	Details / Notes	Responsible Party
177+90	Construction Access Permit	LCR 56	Larimer County	Access F	Contractor
186+19	Courtesy Notification Provided	Water Line	East Larimer County Water District	(1) 12" AC	Thornton
186+26	Right-of-Way Construction Permit	County Road No. 11	Larimer County	Road crossing from Station 185+98 to 186+58	Contractor
186+50	Construction Access Permit	LCR 11	Larimer County	Access G	Contractor
186+66	Crossing Agreement	Electric Line	PVREA	(1) 3" PVC	Thornton
188+21	Courtesy Notification Provided	HP Waterline	Colorado Department of Natural Resources - Orphan Well Program	(1) 3" Steel	Thornton
198+74	Well Abandonment	TH-THORNTON-3 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
199+35	Crossing Agreement	Larimer County Canal	Water Supply and Storage Company	Large Irrigation Canal	Thornton
200+11	Well Abandonment	TH-THORNTON-4 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
201+00	Crossing Agreement	HP Gas Line	Xcel Energy	Access H	Thornton
201+00	Construction Access Permit	LCR 56	Larimer County	Access H	Contractor
205+60	Crossing Agreement	HP Gas Line	Xcel Energy	Access I	Thornton
205+60	Construction Access Permit	LCR 56	Larimer County	Access I	Contractor
205+82	Crossing Agreement	Electric Line	Xcel Energy	(1) 4" Poly	Thornton
206+25	Crossing Agreement	HP Gas Line	Xcel Energy	Access J	Thornton
206+25	Construction Access Permit	LCR 56	Larimer County	Access J	Contractor
215+00	Construction Access Permit	LCR 56	Larimer County	Access K	Contractor
228+30	Construction Access Permit	LCR 56	Larimer County	Access L	Contractor
234+72	Well Abandonment	TH-KRAFT-3 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
235+28	Right-of-Way Construction Permit	County Road No. 9 (Giddings Road)	Larimer County	Road crossing from Station 234+95 to 235+55	Contractor
235+42	Courtesy Notification Provided	Water Line	Platte River Power Authority	(1) 24" Steel	Thornton
235+50	Courtesy Notification Provided	Water Line	East Larimer County Water District	(1) 2" PVC	Thornton
235+57	No agreement needed	Electric Line	Xcel Energy	(2) 2" Poly	Thornton
235+65	Well Abandonment	TH-BARTELS-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
245+75	Construction Access Permit	LCR 56	Larimer County	Access M	Contractor

**ALIGNMENT PERMITTING MATRIX
 THORNTON WATER PROJECT - SEGMENT F.1**

Station	Permit / Agreement / License	ROW / Ditch / Utility	Property / Authority / Easement Owner / Steward	Details / Notes	Responsible Party
250+40	Courtesy Notification Provided	Water Line	Private	(1) 8" PVC	Thornton
255+40	Construction Access Permit	LCR 56	Larimer County	Access N	Contractor
250+41	Courtesy Notification Provided	Electric Line	Private	(1) 1 1/4 " Poly	Thornton
310+50	Well Abandonment	TH-BARTELS-9 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
310+95	Crossing Agreement	OHE Line	Tri-States Generation & Transmission	115kV	Thornton
311+25	Construction Access Permit	LCR 54	Larimer County	Access O	Contractor
311+71	Crossing License	Railroad Crossing	BNSF Railway	Crossing from Station 311+52 to 312+02	Thornton
313+12	Well Abandonment	TH-QTR D-1 (MW)	Colorado Department of Water Resources	Obtain GWS-09 well abandonment permit from DWR	Contractor
313+00	Construction Access Permit	LCR 54	Larimer County	Access P	Contractor
313+58	Right-of-Way Construction Permit	County Road No. 54 (Douglas Rd)	Larimer County	Road crossing from Station 313+27 to 313+87	Contractor
313+73	Courtesy Notification Provided	Water Line	East Larimer County Water District	(1) 2.5" PVC	Thornton
313+88	Courtesy Notification Provided	Irrigation Pipe	Private	(1) 18" Clay (Half Buried / Surface Irrigation Pipe)	Thornton
314+00	Construction Access Permit	LCR 54	Larimer County	Access Q	Contractor

**Attachment 5.3 – Larimer County 1041 Permitting Compliance
and Contractor Requirements Matrix**



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX
THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
2	All construction activities associated with the approval of this 1041 Permit shall comply with all associated regulations and obtain all required county, state, and federal permits.	Permitting	Contractor shall apply and secure all local, state, and federal permits and submit all required plans and documents as outlined Specification Section 01 41 10 (1.17); and this 1041 Permit Compliance and Contractor Requirements Matrix
6	Final engineering documents shall include trench plugs or pipeline collars at appropriate material and spacing to prevent drainage of groundwater along the bedding of the trench that exceeds historic groundwater flows. Of particular concern is the potential for drainage of wetlands or nearby reservoirs. Additional trench plugs may be added during construction where appropriate.	Trench Plugs	Contractor shall install Trench plugs (CLSM cutoff walls) in accordance with the Contract Drawings. Reference Contract Plan and Profile Drawings (PP-) and Drawing C-502.
9	Where the proposed pipeline crosses existing conservation easements, the site shall be restored to either agriculture or previously existing land cover.	Site Restoration	Contractor shall follow specific protection and restoration requirements developed by the Project's Environmental Consultant and Soil Scientist / Agronomist. Reference Pre-, During, and Post-Construction preparation, protection, and restoration requirements included in Specification Section 32 90 10.
10	The applicant shall retain a qualified wetland consultant to complete an on-site wetland delineation following the USACOE Wetland Delineation Manual and the High Plains Regional Supplement as soon as possible after they have obtained permission to access the property. Once the applicant has completed the delineation, they shall prepare wetland mitigation design and construction documents that shall provide at least 100% of the wetland area and buffer destroyed or damaged during construction. This wetland shall provide an ecological function that at least equals that of the resource value that is lost.	Wetland Protection and Restoration	Regulatory wetland and water boundaries are shown on the Contract Plan and Profile Drawings (PP-) and Erosion Control (EC-) Drawings. Reference Spec Sections 01 41 10 (1.15-C) and 32 90 10 (3.02, 3.03), Drawing EC-505, and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix
11	If cultural resources are found during Technical Review or construction, the applicant shall notify the County immediately, to the extent allowed by the State Historic Preservation Office, consult with the State Historic Preservation Office, and begin appropriate measures to preserve the cultural resource, including historic or archeological excavation, reasonable project redesign, or relocation activities. Any such mitigation efforts shall be taken in coordination with and with the approval of the State Historic Preservation Office and to the greatest extent practical, the County.	Cultural Resources	If Contractors uncovers cultural resources during construction, Stop Work / Notification Requirements must be immediately followed. Reference Specification Section 01 41 10 (1.16-B) and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix.
16	Thornton and/or respective contractors shall create a fugitive dust and other emissions control plan(s) specifically addressing controls used for the pump station construction and additional controls for the pipeline corridor. The fugitive dust and emission control plan(s) shall be submitted as part of Technical Review.	Larimer County Air Quality Requirements	Contractor to develop and have approved by Larimer County, a Fugitive Dust, Air Emissions, and Air Quality Management Plan in accordance with Conditions of Approval #16, #17, #18, #80 and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.2). Contractor must follow the approved Plan and the reference Specification requirements.
17	Thornton and/or respective contractors shall create an air emission control plan for reducing impacts of other emissions beyond dust/particulate matter specifically for the pipeline construction. The Plan for the pipeline corridor shall include discussion on emission control strategies for odor-producing equipment and activities, as well as reducing potential exposure from generators and associated powered equipment when used near residences.	Larimer County Air Quality Requirements	Contractor to develop and have approved by Larimer County, a Fugitive Dust, Air Emissions, and Air Quality Management Plan in accordance with Conditions of Approval #16, #17, #18, #80 and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.2). Contractor must follow the approved Plan and the reference Specification requirements.



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
18	In addition to the minimum controls required under permits issued by Air Pollution Control Division, the mitigation listed in the submitted Air Quality Impact and Mitigation Report with edits, shall become conditions of approval for construction of both the pump station and pipeline corridor: • No off-site transport of visible emissions from disturbed areas, dirt access roads, stockpiles, and haul trucks for both the pump station and pipeline corridor construction activities. • A water truck shall be on-site during operating hours and nonoperating hours including Sundays to regularly apply water to active construction areas, dirt access roads, stockpiles, and other areas of disturbed soil to prevent visible emissions from the pump station and corridor active construction areas. • No earthwork allowed during days of high wind of 30 miles per hour or greater (this is also in the General Permit). • Speed limit signs shall be posted in active construction areas restricting speeds to 15 miles per hour. • Loaded haul trucks shall be covered during transport and storage to prevent visible emissions. • Sediment deposition shall be removed promptly when it occurs on public roads or rights-of-way as a result of the owner's or operator's operations. • Minimize drop height: Drivers and operators shall unload truck beds and loader or excavator buckets slowly and minimize drop height of materials to the lowest height possible. • Stockpiles shall remain at a height that a water haul truck or manual water hose can apply water on all surfaces. • Cover loads of material hauling trucks: Loads shall be completely covered, or all material enclosed in a manner that prevents the material from blowing, dropping, sifting, leaking, or otherwise escaping from the truck. • Litter Control: Work sites, temporary staging areas, field trailer areas, finished construction areas and where workers gather for breaks shall be maintained litter-free and supplied with lidded trash enclosures/dumpsters that can withstand water and wind.	Larimer County Air Quality Requirements	Contractor to develop and have approved by Larimer County, a Fugitive Dust, Air Emissions, and Air Quality Management Plan in accordance with Conditions of Approval #16, #17, #18, #80 and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.2). Contractor must follow the approved Plan and the reference Specification requirements.
19	Project corridor construction noise levels shall comply with the Larimer County Noise Ordinance as specified in the Ordinance when construction activities are conducted on or adjacent to properties with residential uses. Exceptions shall be evaluated and approved by Larimer County Departments including Health, Community Development, and Engineering.	Noise Mitigation	Contractor to develop and have approved by Larimer County, a Noise Mitigation Plan in accordance with Conditions of Approval #19, #21, #22, and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.3). Contractor must follow the approved Plan and the reference Specification requirements.
20	Hours of construction activity shall be conducted between 7:00 a.m. to 7:00 p.m. Monday through Saturday. Exceptions for time-sensitive tasks shall be evaluated and approved by Larimer County Departments including Health, Community Development, and Engineering.	Allowable Work Hours and Days	Contractor to follow the work hours, days, and holiday requirements listed in Contract Specifications 01 41 10 (1.15-H).
21	A noise mitigation plan shall be submitted with the final design plans for the Project corridor outlining control methods that will be implemented during construction amongst residential properties to remain within the County Ordinance, but also minimize negative impacts on the residents in the area. - The plan shall include adequate recommendations on how low frequency sound/vibrations are managed. - The Plan shall also include the details of the outreach and communication plan/program. As part of this plan/program, easily visible signage with contact information (phone number, email, and website if created) for addressing questions and concerns, shall be posted in active construction areas. - The Plan shall include additional noise mitigation to be implemented when construction activities are approved to go beyond the 7am to 7pm time period and all 24-hour operations near occupied residences. This plan shall include best management practices which may include but not be limited to: • Ensuring equipment is serviced and maintained to manufacturer's specifications. • Using appropriate mufflers • Idle equipment motors down when the equipment is not in immediate use. • Schedule trucks to minimize long queue lines of idling trucks. • Plan site circulation to minimize backup distances for trucks and other equipment. • Use sound attenuated pumps and "quiet" generators where practical. • Install temporary sound barriers when feasible near loud operations. • Use portable sound barriers when feasible near jackhammer and concrete saw work.	Noise Mitigation	Contractor to develop and have approved by Larimer County, a Noise Mitigation Plan in accordance with Conditions of Approval #19, #21, #22, and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.3). Contractor must follow the approved Plan and the reference Specification requirements.



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
22	Construction equipment and fleet trucks shall utilize white noise backup beepers for construction along the Project corridor.	Noise Mitigation	Contractor to develop and have approved by Larimer County, a Noise Mitigation Plan in accordance with Conditions of Approval #19, #21, #22, and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.3). Contractor must follow the approved Plan and the reference Specification requirements.
23	Thornton shall require the Project contractor to implement an outreach program that includes: • 24-hour telephone contact line for questions and concerns. • Complaint resolution workflow to contact all complainants and attempt to resolve any problems or issues. • Issue monthly flyers to the residents located within a distance to be determined during Technical Review of the TWP construction area informing them of planned construction activities in advance.	Outreach and Communication Support	The Contractor shall support Owner and Construction Manager with the execution of an Outreach and Communication Plan. Reference Specification 1.15-A
24	Construction hours will typically be from 7:00 a.m. to 7:00 p.m., Monday through Saturday unless otherwise approved by Larimer County Community Development staff. Construction may extend beyond these hours only as required and on a case-by-case basis approved by the County staff.	Allowable Work Hours and Days	Contractor to follow the work hours, days, and holiday requirements listed in Contract Specifications 01 41 10 (1.15-H).
27	Thornton and/or representative contractors shall be responsible for arranging for and funding all costs of damage, repair, replacement, and/or relocation of all public and private property utilities and infrastructure as necessary to accommodate the Project corridor.	Existing Utility Protections and Repairs	Contractor shall be responsible for all labor, materials, and costs associated with damage to public and private utilities during the Work. Reference Drawings G-002 (Notes 6, 7, 9, 10, 11, & 31), G-004 G-103, Contractor Specification Sections 02 01 20 and 02 32 19, and notes on the Construction Drawings.
28	Creation and implementation of an Emergency Utility Plan or equivalent plan that outlines Thornton or respective contractors' responsibilities, when and how they will provide temporary utilities or alternative accommodations in the event of damage to property private or public utilities (unless addressed in the easement agreements for the permanent and temporary construction easements).	Existing Utility Protections and Repairs	Contractor to develop and have approved by Larimer County, an Emergency Utility Plan with this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 01 41 10 (1.14-C), 32 90 10 (1.03-B.4). Contractor must follow be have the resources and materials available to execute the Plan if needed.
29	Thornton and/or respective contractors shall be responsible for immediate repair/replacement of damaged utilities (public and private) and all associated costs experienced by properties.	Existing Utility Protections and Repairs	Contractor shall be responsible for all labor, materials, and costs associated with damage to public and private utilities during the Work. Reference Drawings G-002 (Notes 6, 7, 9, 10, 11, & 31), G-004 G-103, Contractor Specification Sections 02 01 20 and 02 32 19, and notes on the Construction Drawings.
32	The applicant shall provide Larimer County with a pre-project video capturing existing conditions of the proposed water line installation corridor in and near the existing ROW.	Pre-Construction Video Documentation	Contractor to document pre-construction conditions and provide photographs and videos. Reference Specifications 01 32 33, 01 33 00 (1.04-C), 01 41 10 (1.19-A.2), and 32 90 10 (1.03-B.6, 1.03-B.11)
33	Unless otherwise approved by Larimer County Engineering, all proposed roadway crossings shall be completed by the specific construction method proposed in the Traffic Impact Report. Any proposed open cut road crossing shall be flow-filled to a depth of 2-feet below the surface of the roadway. Design approval of these crossings shall be per the Code of Ordinances and the Land Use Code.	Road Crossing Requirements	The Contractor shall follow the road crossing requirements described in the Contract Drawings and Specifications that were agreed to during the Project's Design Phase. Reference Plan and Profile (PP) Drawings. Open cut and tunneled roadway crossings and construction requirements are included in Specification Sections 31 09 13, 31 23 43, 31 71 10, 31 71 30, 31 71 40, 31 73 00, 33 05 07, the Plan and Profile (PP) Drawings and Detail Drawings C-401, C-501, C-509, C-512, and C-513.
35	The applicant shall submit phasing plans, including planned work days and hours, to be reviewed by Larimer County Engineering Department. Maximum open trench lengths will be defined in consultation with the Larimer County Engineering Department.	Project Scheduling and Phasing	Contractor shall develop its schedule and project phasing taking into consideration Contract Specifications 01 41 10 (1.15-H, 1.16-D, 1.18, and 1.19), 31 23 43 (3.02-D), and 32 90 10 (3.02-D, E, F, & G, 3.02-K, and 3.03-C, D, E).
36	Material test reports, as per Larimer County Standard, shall be submitted to and approved by Larimer County for any work to take place within County ROW.	Test Report Submittals	As requested by Larimer County and in accordance with Right of Way Permit requirements, the Contractor shall submit material test reports to Larimer County for approval for any work in Larimer County ROW per Specification Section 01 45 16 (1.03-B.3, 3.06-B.2, 3.08-A.2) and this Larimer County 1041 Perimt Compliance and Contractor Requirements Matrix.
37	A pre-construction inventory of County roads to be used for construction traffic shall be created and updated as needed by the applicant during construction, documenting preconstruction conditions and the work conducted by the applicant to return the roads to pre-construction conditions when construction is complete.	Road Inventories and Maintenance and Repair Plan	Contractor to develop an initial and final road inventory documenting pre- and post-construction conditions. Contractors shall also have a Road Maintenance and Replace Plan developed and approved by Larimer County in accordance with this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix and the Contract Specifications. Reference Contract Specifications 01 41 10 (1.15.B) and 32 90 10 (1.03.B.5 and B.6)



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
38	The applicant shall be responsible for arranging and paying all costs of: • Utility relocations and irrigation company requirements necessary to accommodate the water pipeline in the road ROW. • The replacement of existing storm drainage infrastructure, culverts, roadway signage, pavement striping/symbols, landscaping and property fencing necessary to accommodate the water pipeline in the ROW. • Damage or relocation of private property services as necessary to accommodate the water pipeline corridor if a reasonable alternative is not possible.	Existing Utility Protections, Repairs, and Replacements	Contractor shall protect, repair, and replace existing utilities in accordance with the Contract Drawings and this Larimer County Permit Compliance and Construction Requirements Matrix. Contract shall reference Drawings G-002 (Notes 6, 7, 9-15, 23-25, 30, 31) and Drawings G-004 and G-103 which provide utility crossing notes and information related to the protection or replacing of existing utilities and facilities. Construction identification requirements are included in Specification Section 02 01 20, 02 32 19, 32 90 10 (3.03) as well as notes on the Construction Drawings.
39	The applicant shall allow access to Larimer County staff and consultants for inspections and construction observation throughout the Project and for the term of the construction and any required ongoing monitoring during site reclamation and/or operations.	Larimer County Access to Project Site	Contractor shall allow Larimer County staff access to all work areas before and during construction for inspection, observation and testing purposes. Any Contractor communications with Larimer County shall be immediately documented in writing and be provided to Thornton's Construction Manager. Contractor shall reference Specification Section 32 90 10 (3.02-P.2).
41	The applicant shall invite Larimer County staff to attend regularly scheduled coordination meetings during construction, at a frequency to-be-determined, to understand planned construction activities and stay abreast of issues arising from construction impacts to County infrastructure or the public.	Larimer County Meeting Attendance	The Construction Manager is responsible for coordinating weekly progress meetings and Larimer County will be invited to attend per Segment F. 2 Specification Section 01 31 19.
42	The applicant shall provide a public information contact with a phone number and email address that the public can contact to ask questions, express concerns or receive project updates.	Public Outreach Signs	Contractor shall support the Owner and Construction Manager with Public Outreach. Reference Specification Section 01 41 10 (1.07-A.1) and 32 90 10 (2.01). Project signs will be posted along the alignment and will include the phone number and website information.
43	The applicant shall coordinate with Larimer County Emergency Services and Poudre R-1 School District on road closures with advance notice to address school bus access.	Sheriff, Fire, and School Coordination and Engagement	Contractor shall contact and engage throughout the Project the Larimer County Sheriff's Office, the Poudre Fire Authority, and the Poudre School District. Reference Segment F.2 Specification Sections 01 31 19 and 01 32 16, and Segment F.1 Specification Sections 01 41 10 (1.08), 01 55 26 (1.05-J), 32 90 10 (3.01-A.1.b) and this Larimer County 1041 Permit and Contractor Requirement Matrix.
44	The applicant shall submit to Larimer County a Traffic Control and Management Plan for review by the County Engineer prior to construction addressing traffic control devices/personnel (warning signs, flaggers, traffic control supervisors, etc.), any specific delay times, adjacent neighboring property owner notifications, and use and placement of message boards. The Traffic Control and Management Plan will include requirements to provide safe and acceptable access for emergency responders, mail and package delivery, garbage pickup, and school bus stops. The Traffic Control and Management Plan will also identify all proposed access points.	Traffic Control	Contractor to develop and have approved by Larimer County, a Traffic Control Plan in accordance with the Contract Drawings and Specifications and this Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Contractor must follow the approved Plan and the reference Contract requirements. Reference Contract Specifications 01 41 10 (1.17-D.1), (01 55 26 (1.02, 1.05), 02 32 19 (1.02-B.1), 32 90 10 (1.03-B.7).
45	When construction activity is taking place within or impacting Larimer County ROW in any way, the applicant shall obtain and abide by the standards and conditions of applicable County ROW permit(s), per the Code of Ordinances and the Land Use Code. Construction plans shall be provided to detail the work to be completed. Additionally, Traffic Control Plans, developed by a certified traffic control company, must be submitted for all work performed within road ROW or that will directly affect the travelling public.	ROW Permits and Traffic Control	Contractor to develop and have approved by Larimer County, a Traffic Control Plan in accordance with the Contract Drawings and Specifications and this Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Contractor must follow the approved Plan and the reference Contract requirements. The TCP will be required to obtain ROW permits and shall be developed in coordination with, and certified by, a traffic control professional. Contractor shall not begin work until Larimer County permits are executed. Reference Contract Specifications 01 41 10 (1.17-D.1, 1.15-E.2), 01 55 26 (1.02, 1.05), 02 32 19 (1.02-B.1), 32 90 10 (1.03-B.7).
46	Larimer County regulates access to county roads to maintain safe traffic flow, road drainage facilities, and efficient use of the County's roads. Access Permits will be required for any new access from Larimer County ROW regardless of whether they are to be used for temporary construction purposes or are to be permanent. Staff may also require an Access Permit for existing access points proposed to be utilized for temporary construction or permanent access.	Construction Access Permits	The Contractor shall secure construction access permits for all permanent (P) and temporary (T) access locations identified on the Contract Drawings. Permanent Accesses will be left in place for the Owner as part of Owner's responsibility to obtain Permanent Access Permits. Contractor shall remove all Temporary Construction Accesses as part of the Project's restoration activities. Contractor shall reference Drawing G-102 and Specification Sections 01 41 10 (1.17-C.6, 1.17-D.1.d) and 32 90 10 (3.03-J)



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX

THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
47	The applicant shall be required to designate planned haul routes. The existing surface condition of all planned haul routes will need to be evaluated prior to construction. If it is determined by the County Engineer that there has been an acceleration in deterioration of the roadway surface during or after construction as a result of construction traffic, equipment, or hauling, the applicant will be required to restore the roadways to their prior condition. This may include the need for regrading and or resurfacing.	Road Inventories and Maintenance and Repair Plan	Contractor to develop an initial and final road inventory documenting pre- and post-construction conditions. Contractors shall also have a Road Maintenance and Replace Plan developed and approved by Larimer County in accordance with this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix and the Contract Specifications. Reference Contract Specifications 01 41 10 (1.15.B) and 32 90 10 (1.03.B.5 and B.6)
48	Heavy equipment traffic will be subject to all weight limit restrictions along adjacent roadways and will obtain oversize/overweight permits.	Over Size / Over Weight Permits	If oversized or overweight vehicles are planned to be used, Contractor shall obtain a Larimer County Special Transport Permit in accordance with Specification Sections 01 41 10 (1.17-C.1.e).
49	The applicant shall obtain a storm water discharge and construction dewatering permit from the Colorado Department of Public Health and Environment for construction at drainage crossings and for land disturbances of one acre or more, per Article 4.12 of the Land Use Code. These permits will include the preparation of a Storm Water Management Plan and Best Management Practices to prevent storm water runoff and sediment in disturbed areas from reaching nearby waterways or otherwise leaving the site. Multiple state permits may be required for the different project areas.	CDPHE Permitting and Stormwater Management Plan	The Contractor shall obtain CDPS General Permit Number COR-040000 (Stormwater Discharge) and CDPS General Permit, Permit Number COG-080000 (Construction Dewatering) In addition, Contractor shall submit and have approved a project specific Stormwater Management Plan in accordance with this Larimer County 1041 Permit Compliance and Control Requirements Matrix. Reference Specification Sections 01 41 10 (1.17-F) and 32 90 10 (1.03-B.8,12).
51	The applicant shall develop a comprehensive document describing best management practices (BMPs) to be employed for utility planning and construction that potentially affects developed, rural, wetland and riparian land areas or may involve stream crossings. Such documentation is to include, but not be limited to, preconstruction and construction BMPs relating to surface water, erosion and sediment control and prevention; groundwater considerations and protection; topsoil conservation and restoration and vegetation/revegetation considerations. Lastly, the document shall address cover post-construction BMPs and monitoring requirements and plans for adaptive management if necessary.	BMP Plan	The Contractor shall submit and have approved a project specific BMP Plan in accordance with this Larimer County 1041 Permit Compliance and Control Requirements Matrix. Reference Specification Section 32 90 10 (1.03-B.9, 2.06, 3.01-C).
53	The applicant shall obtain any additional State, Federal, or Local permits necessary for construction. When applicable, the applicant or its contractors shall obtain other Larimer County issued permits as well. These could include, but are not limited to, Building Permits, Floodplain Development Permits, and/or Utility Permits.	Permitting	Contractor shall apply and secure all local, state, and federal permits and submit all required plans and documents as outlined Specification Section 01 41 10 (1.17); and this 1041 Permit Compliance and Contractor Requirements Matrix
54	The applicant shall develop and provide Larimer County with accurate as-built horizontal and vertical survey data (state plane coordinates and elevations in NAVD 88) and GIS shapefiles describing the location of the pipeline and all appurtenant structures.	As-Built Information	Contractor is required to collect as-built information as the project progresses and upon Final Completion. The Contractor shall collect survey grade information as required by the Contract Specifications. Information will be provided to Larimer County. Reference Specification Section 01 78 39.
55	The applicant shall provide Larimer County with as-built construction drawings certified by a Colorado registered professional engineer, for all portions of the pipeline located in unincorporated Larimer County.	As-Built Information	Contractor is required to collect as-built information as the project progresses and upon Final Completion. The Contractor shall collect survey grade information as required by the Contract Specifications. Information will be provided to Larimer County. Reference Specification Section 01 78 39.
56	During the Technical Review of the Thornton Water Project, Thornton shall provide documentation that they have consulted with U.S. Fish and Wildlife Service and the Colorado Department of Parks and Wildlife on the final engineering of the TWP and shall follow their recommendations for mitigating impacts to threatened and endangered species and wildlife habitat.	Wildlife and Habitat Protection	Contractor shall coordinate, time, and construct the Work to protect wildlife habitat in accordance with the Contract Drawings and Specifications. Reference Drawing G-104 and Specification Sections 01 41 10 (1.17-D) and 32 90 10 (3.02-K) for MTBA seasonal restrictions, raptor nest observation requirements, wildlife trench ramps, and well as coordination requirements.
59	Thornton shall clear vegetation in construction areas during the winter months, before the nesting season, to minimize impacts on nesting birds. Thornton would review the status of any potential raptor nests, known eagle nests, and eagle roosts prior to construction. If any active raptor or bald eagle nests are located, Thornton shall comply with CPW seasonal restrictions associated with surface activity within recommended buffers around active nest sites and coordinate with CPW to determine and implement any BMPs to minimize or eliminate impacts on active raptor or bald eagle nests.	Wildlife and Habitat Protection	Contractor shall coordinate, time, and construct the Work to protect wildlife habitat in accordance with the Contract Drawings and Specifications. Reference Drawing G-104 and Specification Sections 01 41 10 (1.17-D) and 32 90 10 (3.02-K) for MBTA / BGEPA seasonal restrictions, raptor nest observation requirements, wildlife trench ramps, and well as coordination requirements.
62	During construction, wildlife crossovers (trench plugs) with ramps on each side of the trench shall be installed at well-defined game trails, as identified during Technical Review, other permitting processes, or on-site during construction.	Wildlife and Habitat Protection	The Contractor shall install wildlife protection ramps within open pipeline trenches in accordance with Specification Section 32 90 10 (3.02-K).



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX
THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
63	A site-specific Stormwater Management Plan and Erosion and Sediment Control Plan shall be developed and submitted to the County for approval.	CDPHE Permitting, Stormwater Management Plan	The Contractor shall obtain CDPS General Permit Number COR-040000 (Stormwater Discharge) and CDPS General Permit, Permit Number COG-080000 (Construction Dewatering) In addition, Contractor shall submit and have approved a project specific Stormwater Management Plan in accordance with this Larimer County 1041 Permit Compliance and Control Requirements Matrix. Reference Specification Sections 01 41 10 (1.17-F) and 32 90 10 (1.03-B.8,12).
64	A detailed restoration plan and specifications shall be developed in consultation with the applicant's environmental consultants during the Project's design phase. The restoration plan shall involve pre- and post-construction surveys and appropriate seed mixes for restoring the various vegetation classes within the work limits. Thornton's construction contract shall include a warranty period that covers not only the installation of the Project but also restoration. Furthermore, the construction contractor's state stormwater discharge permit shall not be closed until 70 percent vegetation cover is achieved and County Community Development staff have deemed the landscape restoration complete.	Restoration	Contractor shall fully restore the Work areas to pre-construction conditions as required by the Contract Drawings and Specifications and this Larimer County 1041 Compliance and Contractor Requirements Matrix. Reference Contract Drawings, G-002 (Notes 23 - 25, 30, 31), Specification Sections 01 41 10 (1.16-C) and 32 90 10 (3.03), and the Contact Drawing's "EC Sheets".
65	The areas of construction shall be accessed using existing roads to the maximum extent possible. Any temporary access roads shall be removed upon completion of the Project, and the area restored to preconstruction conditions.	Construction Access	The Contractor shall secure construction access permits for all permanent (P) and temporary (T) access locations identified on the Contract Drawings. Permanent Accesses will be left in place for the Owner as part of Owner's responsibility to obtain Permanent Access Permits. Contractor shall remove all Temporary Construction Accesses as part of the Project's restoration activities. Contractor shall reference Drawing G-102 and Specification Sections 01 41 10 (1.17-C.6, 1.17-D.1.d) and 32 90 10 (3.03-J)
66	BMPs will be implemented during construction, which will help minimize impacts in the Project work limits. These BMPs shall be determined during Technical Review and could include installing temporary fencing to deter access to sensitive areas, placing staging areas in previously disturbed upland areas, and installing sediment- and erosion-control devices to minimize surface runoff in disturbed areas.	BMP Plan	The Contractor shall submit and have approved a project specific BMP Plan in accordance with this Larimer County 1041 Permit Compliance and Control Requirements Matrix. Reference Specification Section 32 90 10 (1.03-B.9, 2.06, 3.01-C).
67	Temporary impacts will be fully restored to pre-project conditions after completion of the proposed activities.	Restoration	Contractor shall fully restore the Work areas to pre-construction conditions as required by the Contract Drawings and Specifications and this Larimer County 1041 Compliance and Contractor Requirements Matrix. Reference Contract Drawings, G-002 (Notes 23 - 25, 30, 31), Specification Sections 01 32 33 and 32 90 10 (3.03), and the Contact Drawing's "EC Sheets".
68	Topsoil shall be salvaged and used in disturbed areas, which will be revegetated where practicable. The applicant shall retain a local soil scientist, agronomist, and/or agricultural engineer to work with impacted property owners of agricultural land to determine existing soil conditions, best management practices, and mitigation measures to implement, including the implementation of soil amendments, to protect and re-establish the soil health of the soil column (topsoil and subsoil) that will be impacted by construction activities. Those practices shall be included in the design and completed for review by staff during Technical Review.	Soil Protection	The Contractor shall proactively protect both topsoil and subsoils in accordance with the Contract Drawings and Specifications. Reference Specification Section 32 90 10 (3.02-D, E, F, G and 3.03-C) and Erosion Control (EC-) Drawings.
69	All temporarily disturbed areas shall be planted with County-approved native seed mixes, or as reasonably specified by the property owner, and mulched, to increase diversity and decrease nonnative and noxious weed cover.	Seeding and Weed Control	The Contractor shall restore the construction corridor using property owner approved restoration measures and seed / planting mixes. Reference Specification Section 32 90 10 (2.09-A, 2.11-B, 3.01-D, 3.01-I, 3.03-E,F) and the Contract Drawings (EC- Sheets).
70	To limit the introduction or spread of noxious weeds in the site inventory area, a preconstruction and post-construction weed management approach will be implemented. Weed management strategies for each of the project stages shall be followed as described in the Noxious Weed Management Plan in the Item 10 Wetland Mitigation Plan (ERO 2023).	Weed Control	The Contractor shall restore the construction corridor using property owner approved restoration measures and seed / planting mixes. Reference Specification Section 32 90 10 (2.09-A, 2.11-B, 3.01-D, 3.01-I, 3.03-E,F) and the Contract Drawings (EC- Sheets).
71	During construction, open-cut trenches shall be as narrow as safely practicable when crossing waters of the U.S. and non-jurisdictional waters and wetlands. Final design shall include criteria to ensure that impacts on aquatic resources will be minimized.	Water and Wetlands Protection and Restoration	Contractor shall keep excavations during pipe laying operations to the narrowest extent practical when crossing wetlands and waters identified in the Contract Drawings and Specifications. Reference Specification Sections 01 41 10 (1.15-C) and 32 90 10 (3.01-H and 3.03), Drawing C-501, and the Contract's "EC" sheets.



LARIMER COUNTY 1041 PERMIT COMPLIANCE AND CONTRACTOR REQUIREMENTS MATRIX
THORNTON WATER PROJECT - SEGMENT F.1

Specific COA ID	Condition of Approval (COA)	Area of Contractor Focus	Contractor Reference and Requirements
73	If construction occurs between February and August, a preconstruction nesting bird survey shall be conducted by a qualified wildlife biologist prior to any clearing or tree removal. Where feasible, Thornton plans to clear vegetation in construction areas prior to the nesting season to minimize impacts on nesting birds. Thornton shall review the CPW raptor nest data (CPW 2022b) and perform nest surveys for raptors prior to the nesting season to identify potential active raptor nests prior to construction. Thornton shall coordinate with CPW regarding any potential conflicts between scheduled construction and potential raptor nests and develop measures acceptable to CPW to minimize impacts on nesting raptors.	Wildlife and Habitat Protection	Contractor shall coordinate, time, and construct the Work to protect wildlife habitat in accordance with the Contract Drawings and Specifications. Reference Drawing G-104 and Specification Sections 01 41 10 (1.17-D) and 32 90 10 (3.02-K) for MBTA / BGEPA seasonal restrictions, raptor nest observation requirements, wildlife trench ramps, and well as coordination requirements.
74	The City of Thornton should consider using an archeological monitor especially where the project is within 200 feet of a waterway or when in proximity to the 22 features of historic and cultural significance.	Cultural, Historical, and Archeological Resource Protection	Contractor shall coordinate, time, and construct the Work to protect cultural, historical, and archeological resources in accordance with the Contract Drawings and Specifications. Reference Specification Section 01 41 10 (1.16-B)
76	The applicant shall obtain any necessary approvals from the Dam Safety Branch of the Colorado Division of Water Resources related to Windsor Reservoir #8 and any other structures regulated by the Division, including high hazard dams, prior to the approval of the Technical Review.	Water Supply and Storage Reservoir Facility Protection	The Contractor shall follow the requirements of the Contract Documents to protect Water Supply and Storage Reservoir Facilities (Windsor Reservoir #8). Reference Contract Drawings PP-111, PP-112, PP-114, & C-509.
77	The applicant shall exercise due diligence to locate all known underground utilities and other underground facilities that may be impacted by the construction of the TWP and pothole them where appropriate and shall incorporate the results into their submittal for Technical Review.	Existing Utility Protections, Repairs, and Replacements	Contractor shall protect, repair, and replace existing utilities in accordance with the Contract Drawings and this Larimer County Permit Compliance and Construction Requirements Matrix. Contract shall reference Drawings G-002 (Notes 6, 7, 9-15, 23-25, 30, 31) and Drawings G-004 and G-103 which provide utility crossing notes and information related to the protection or replacing of existing utilities and facilities. Construction identification requirements are included in Specification Section 02 01 20, 02 32 19, 32 90 10 (3.03) as well as notes on the Construction Drawings.
78	The applicant shall minimize disturbance and mitigate all impacts to trees along the pipeline route. In the Technical Review submittal, the applicant shall accurately identify the locations, species, size and condition of all trees along the pipeline alignment, each labeled showing the applicant's intent to either remove, transplant or protect the tree. The applicant shall retain an ISA certified arborist to conduct a full tree inventory and evaluate the health of and make recommendations for the retention of significant trees where the drip line is within either the temporary or permanent easement of the pipeline. For trees proposed to be removed, the applicant shall demonstrate why it is technically infeasible to avoid impacts to the tree and its critical root zone. Where it is not feasible to protect and retain tree(s) or to transplant them to another on-site location, Thornton shall replace impacted trees, either on-site or off-site, in accordance with Sec. 18-537 of the City of Thornton's Development Code (Existing Plant Material). If avoiding impacts to trees results in greater impacts to County ROW, efforts should be made to minimize disruptions to road users and traffic patterns and shall comply with all other conditions of approval related to County ROW.	Tree Protection	Contractor shall coordinate, time, and construct the Work to protect a variety of trees as required by the Contract Drawings and Specifications. Reference Specification Sections 01 41 10 (1.13-D) and 32 90 10 (3.02-C), and Drawing G-02 (Note 26), and the PP-Drawings.
80	An Air Quality Management Plan shall be provided at the time of Technical Review for the pumphouse and the pipeline which outlines best management practices to be implemented by City of Thornton and associated contractors to reduce air pollutant emissions during construction.	Larimer County Air Quality Requirements	Contractor to develop and have approved by Larimer County, a Fugitive Dust, Air Emissions, and Air Quality Management Plan in accordance with Conditions of Approval #16, #17, #18, #80 and this 1041 Larimer County 1041 Permit Compliance and Contractor Requirements Matrix. Reference Contract Specifications 32 90 10 (1.03-B.2). Contractor must follow the approved Plan and the reference Specification requirements.
81	An Exterior Lighting Management Plan shall be provided at the time of Technical Review that outlines specific requirements and best management practices to be implemented by City of Thornton and associated contractors related to lighting operations during pipeline construction, with the goal of minimizing light pollution, disturbance to nearby residents, and disturbance to migratory birds and other wildlife. Lighting outside of the standard operating hours of 7:00am-7:00pm should be avoided and is subject to review and approval by Larimer County staff on a case-by-case basis. Lighting should be avoided during times of peak spring and fall migration, as determined and agreed to by Thornton and Larimer County staff on an annual basis, in consultation with Colorado Parks and Wildlife and the local Audubon Society.	Exterior Lighting Plan	The Contractor shall submit and have approved a project specific Exterior Lighting Management Plan in accordance with this Larimer County 1041 Permit Compliance and Control Requirements Matrix. Reference Specification Section 32 90 10 (1.03-B.10).

Attachment 5.4 – Nationwide Permit No. 3 and No. 58

THORNTON TO PROVIDE

Attachment 5.5 – BNSF Permit

THORNTON TO PROVIDE