

SEWER INTERCEPTOR PROJECT

Public Meeting

July 31, 2018

RUIDOSO
NEW MEXICO



MOLZENCORBIN
ENGINEERS | ARCHITECTS | PLANNERS



**D.T. Collins &
Associates, PC**

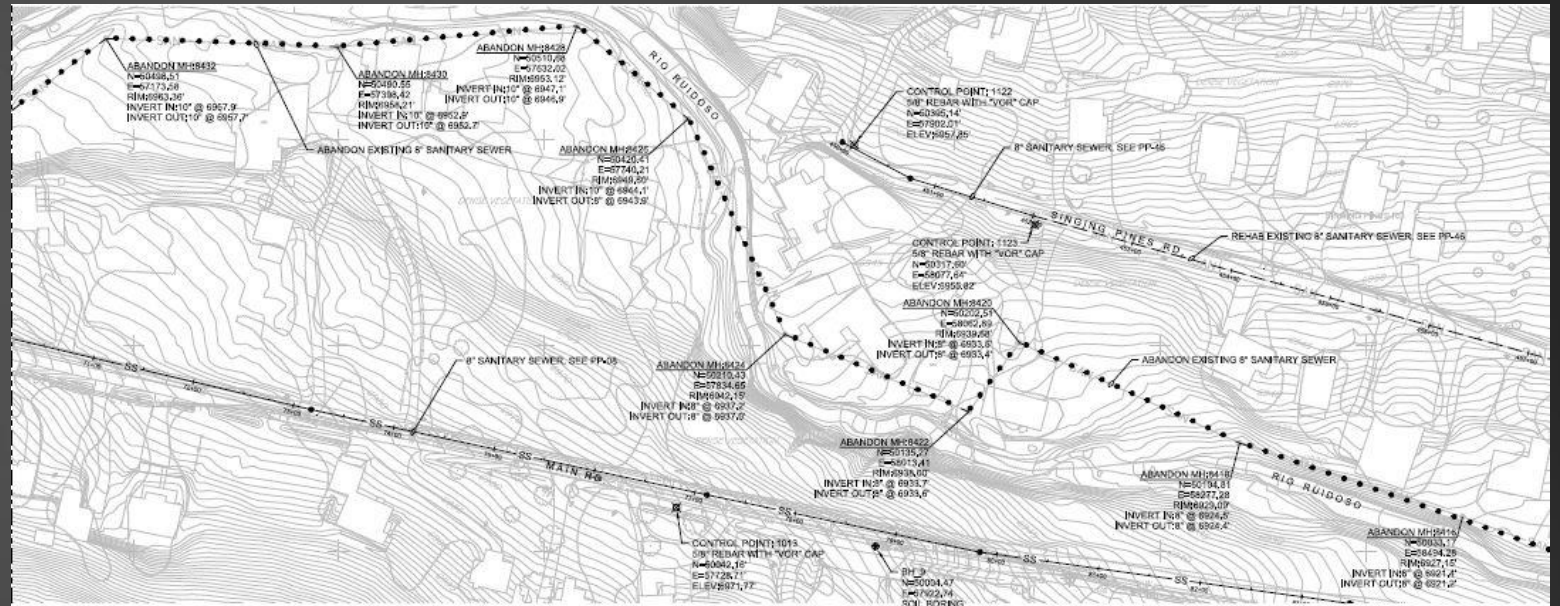
Project Background

- ▶ 2008 Flood Resulting in Damage to Sewer Interceptor
- ▶ Previous planning and 30% design effort focused on relocation of the existing interceptor
- ▶ Project budget greater than available funding
- ▶ Significant constructability concerns
- ▶ This Project Team hired to re-evaluate the project - find an alternative that accomplished primary goals:
 - ▶ Fix damaged pipeline (reducing I&I)
 - ▶ Provide infrastructure that is resistant to future flood damage
 - ▶ Bring the project within remainder of available funds



Relocation Project

- ▶ Relocation did not meet FEMA project requirements
 - ▶ Restore form and function of damaged infrastructure
 - ▶ Mitigate future hazards
- ▶ Funding concerns
- ▶ Access (Main Road)
- ▶ Constructability
- ▶ Community Impact
 - ▶ Property and easement acquisition
- ▶ Increased maintenance and upkeep for Utilities and residents



Sanitary Sewer Repair- Rehabilitation Project

Restoration of
Existing Sewer Lines
and Manholes

Trenchless Pipe
Rehabilitation

Insitu Manhole
Repair

Hazard Mitigation
and Stabilization for
Sewer Lines

Protect River
Crossing Locations
of
Sewer Lines

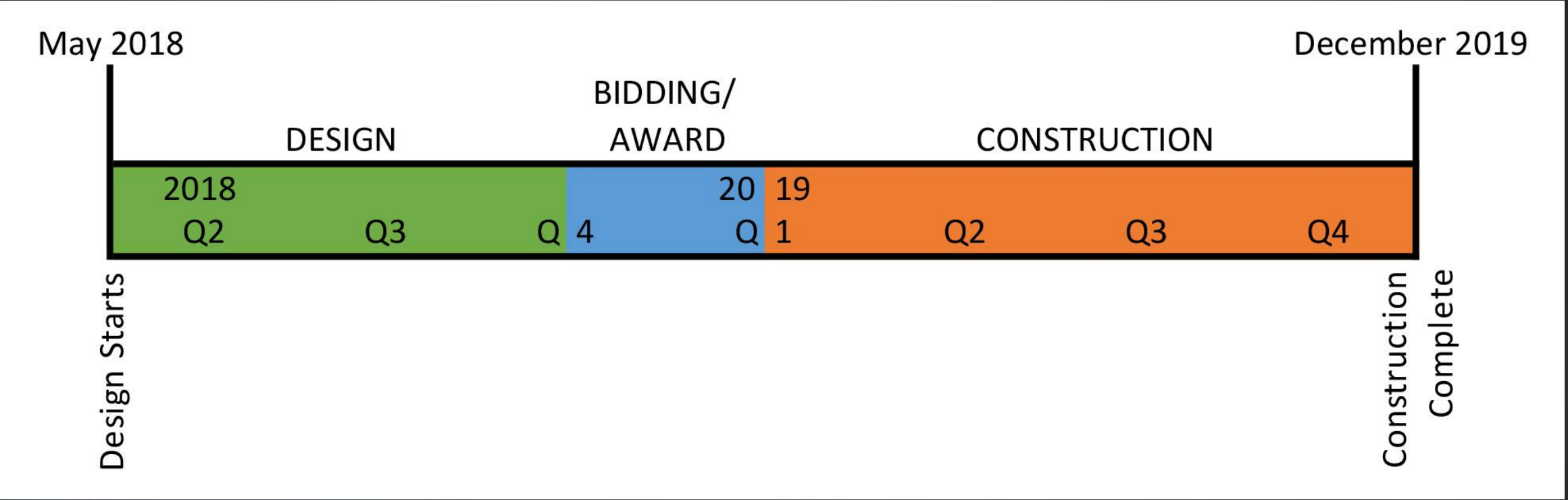
Protect Sewer Lines
Parallel and
Proximate to the
River

Lift Stations and
Forcemains

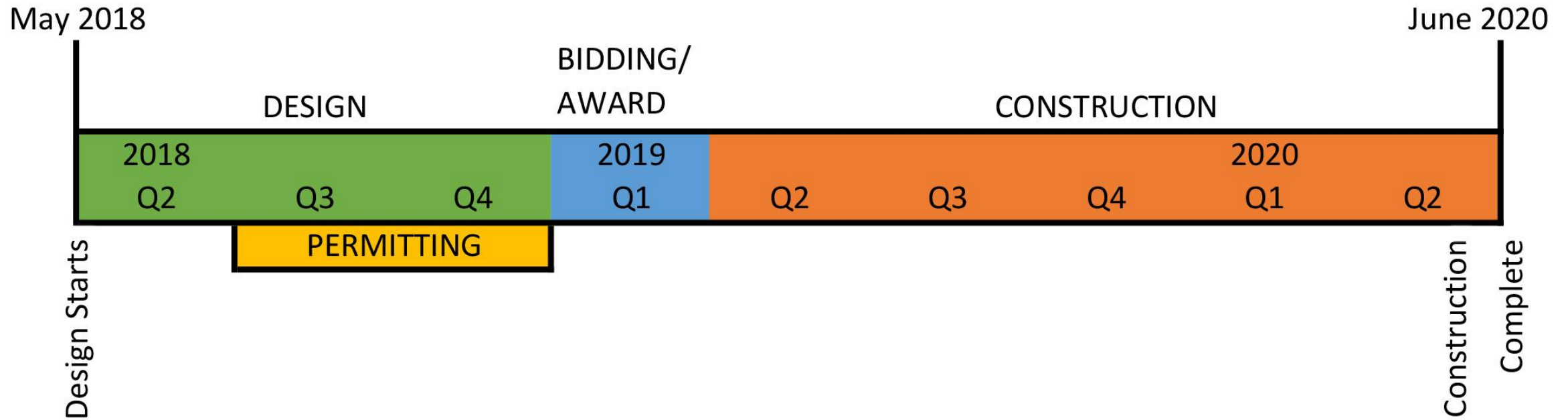
Abandonment of
Damaged and
Vulnerable
Locations

New Lift Stations
and Forcemains to
Convey Sewage

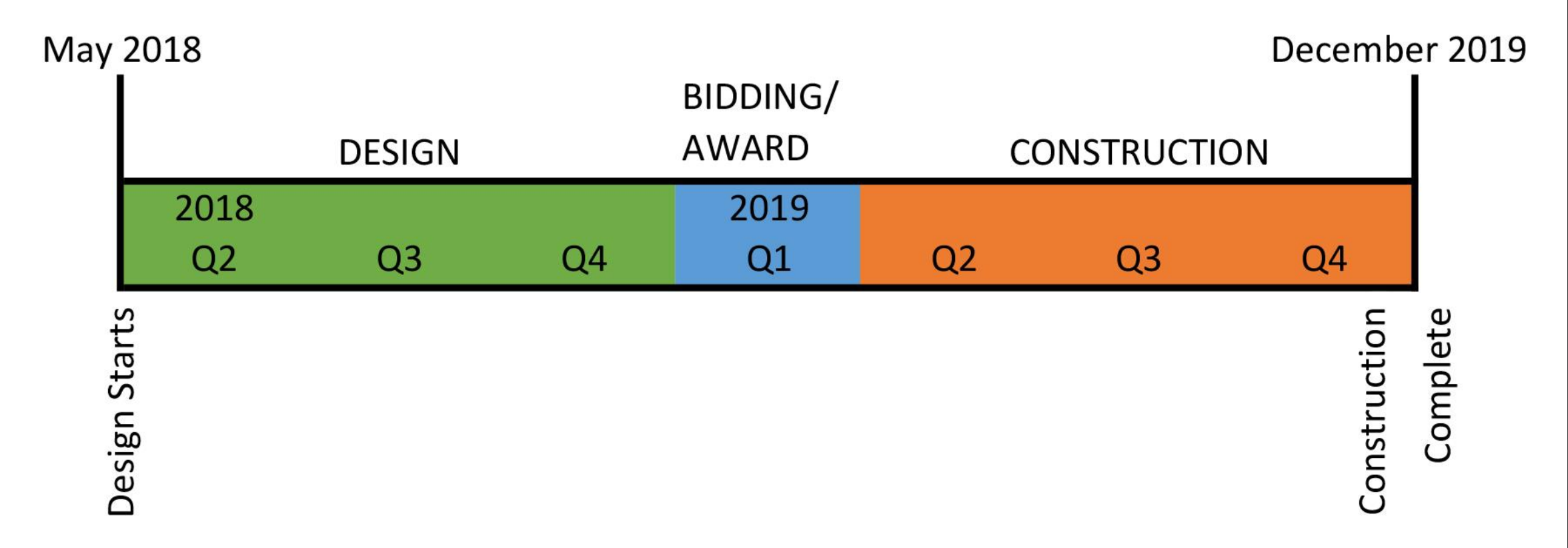
Restoration of Existing Sewer Lines and Manholes



Hazard Mitigation and Stabilization for Sewer Lines



Lift Stations and Forcemains



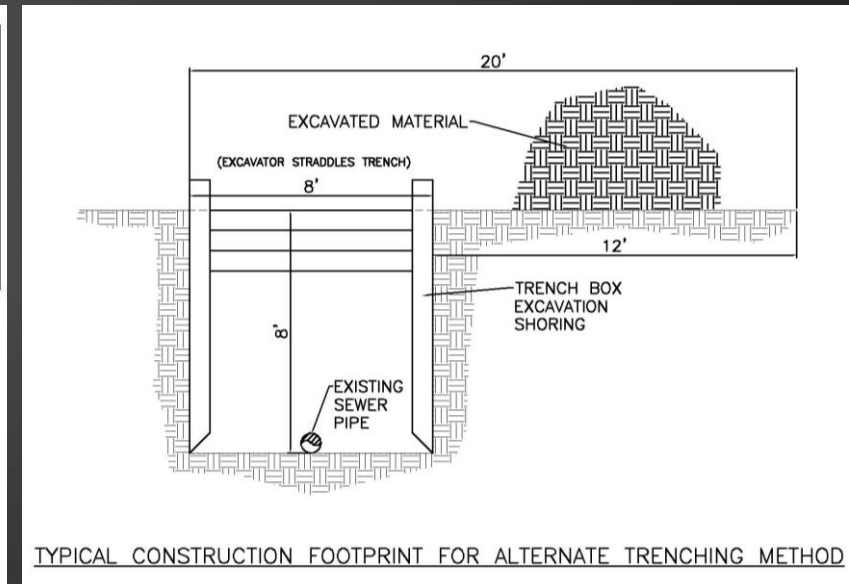
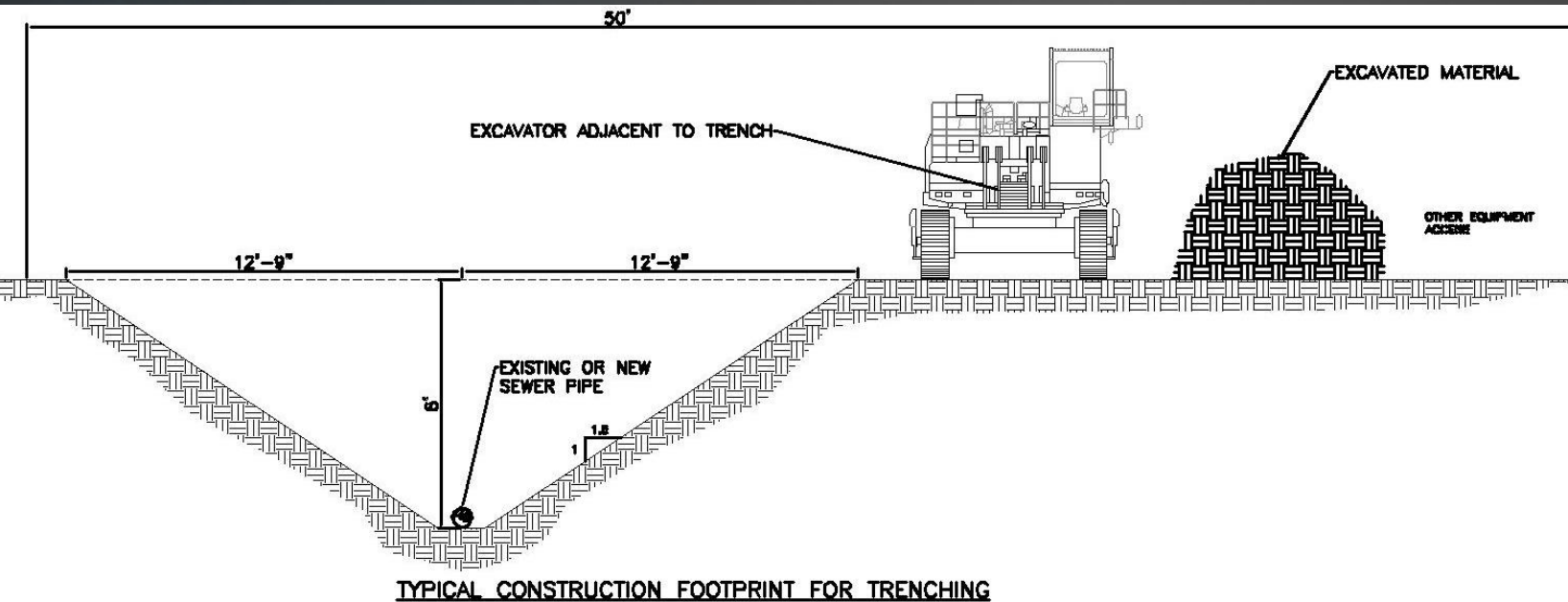
Easement Acquisition

D.T. Collins – Local Ruidoso Surveyor

- ▶ Prescriptive Easements
- ▶ Temporary Construction Easements
- ▶ Permanent Utility Easements

Why we need easements

- ▶ Utility construction
- ▶ Maintenance and repairs



Easement

- ▶ A right to cross or otherwise use someone else's land for a specified purpose.

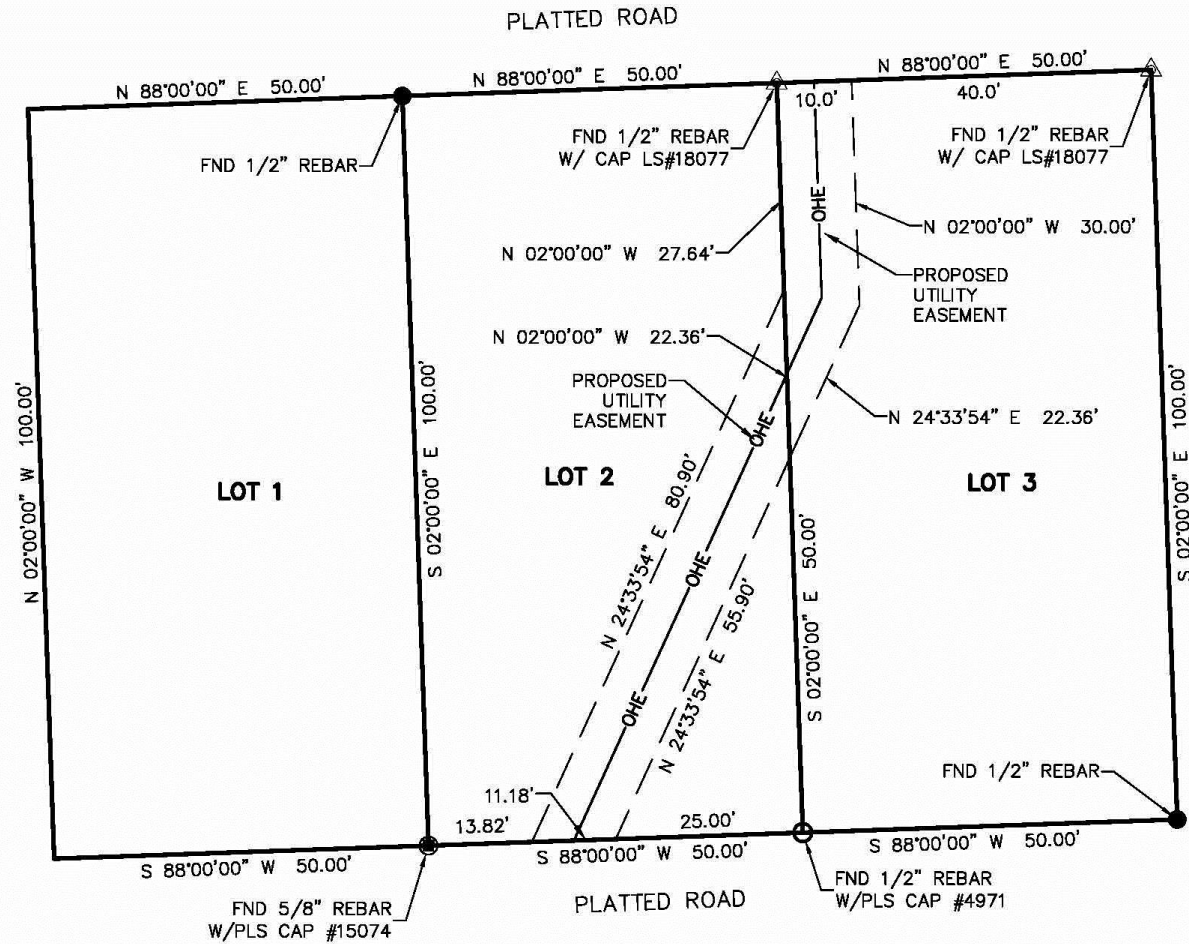
Prescriptive Easement

- ▶ An easement upon another's real property acquired by continued use without permission of the owner for a legally defined period.
- ▶ In NM, that legally defined period is 10 years.

Typical Easement

- ▶ An Easement is usually defined mathematically within a defined Tract showing exactly where the easement is located within that Tract.
- ▶ Requires that the boundaries of the Tract be completely surveyed to find its “bounds.”

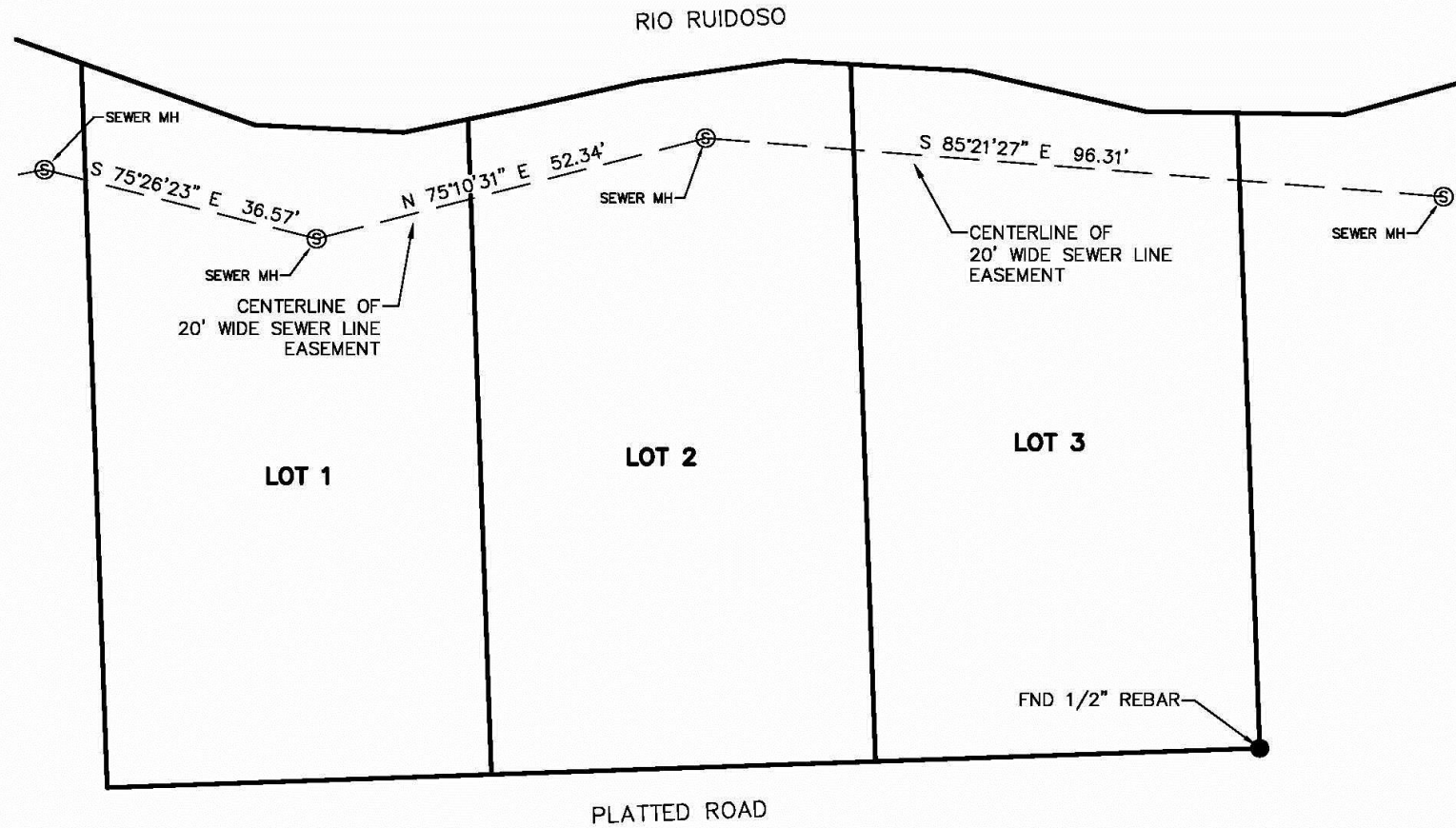
TYPICAL EASEMENT EXAMPLE



Sewerline Easement

- ▶ The Sewer line Easement for this project will be written so that the alignment is mathematically tied down to permanent monuments but is shown “generally” within each Tract that it crosses.
- ▶ A survey of each Tract will not be completed.
- ▶ Owner of Tract would acknowledge the existence of the sewer line within their property and grant a new easement.
- ▶ The easement would include the right of the municipality to enter the property to repair, maintain, or replace the sewer line within the easement.

SEWER LINE EASEMENT EXAMPLE



Update on Stakeholder Agency Coordination and Reporting for the Project



Detailed Project Timeline

Start Date	Task Name	Start Date	Task Name	Start Date	Task Name
07/01/08	Start of Disaster 1783	12/01/14	CH2M FEMA Project Estimates	11/20/17	Field Visit with USACE, Molzen Corbin, the Village of Ruidoso and High Water Mark.
08/01/08	End of Disaster 1783	12/01/14	Another FEMA review of Project Begins	11/30/17	Ruidoso Business After Hours - Public Outreach
08/01/08	Disaster 1783 Declared	01/01/15	Concern from FEMA on Scope of Work (SOW) in CH2M submittals	02/16/18	Molzen Corbin submits Draft 30% Design Evaluation to the Village of Ruidoso, NMED, USACE and High Water Mark
08/01/08	VOR begins emergency work on sewer line and project planning	01/01/15	VOR works to Address FEMA concerns	02/28/18	Meeting with Molzen Corbin and High Water Mark to discuss comments and provide clarifications regarding the Draft 30% Design Evaluation
01/01/09	Zia Engineering begins environmental consultation process.	01/01/16	High Water Mark joins Village of Ruidoso (VOR) on Project Team	03/14/18	Meeting with the Village, Molzen Corbin, High Water Mark and NMED
02/01/09	VOR submits initial application into FEMA	01/01/16	Resolution of FEMA's SOW concern	03/27/18	Site Visit to review potential areas for armoring and bank stabilizations.
03/01/09	Initial Grant Awarded	01/01/16	Project Letter of Understanding (LOU) is signed	04/04/18	Task Order #2 with the Village of Ruidoso and Molzen Corbin has been signed and initiated.
04/01/09	VOR continues with environmental and engineering	03/01/16	FEMA Request for Information for Environmental, Historic Preservation Review	04/18/18	Molzen Corbin responds to comments to High Water Mark, NMED, USACE and the Village regarding the draft 30% Design Evaluation.
10/01/09	Wilson Engineering Preliminary Engineering Report Finalized	06/01/16	FEMA concern on footprint of project	04/19/18	High Water Mark's Site Visit regarding permitting.
10/01/09	Zia completed a Biological Survey of Project Area	10/01/16	Resolve FEMA concern on area of disturbance and EA	04/24/18	Meeting with NMDHSEM regarding funding with the Village and High Water Mark
11/01/09	Zia completed a Cultural Survey	02/01/17	FEMA reviews final Project SOW	05/01/18	Meeting regarding the permitting for armoring and bank stabilizations with Molzen Corbin, High Water Mark and USACE.
11/01/09	Zia and VOR submit additional environmental paperwork to FEMA, USACE, EPA	04/01/17	Molzen Corbin joins the Project Team to develop 100% Design	05/02/18	Version #2 of Draft 30% Design Evaluation is submitted to review by Molzen Corbin to the Village and High Water Mark
09/01/10	Environmental Assessment (EA) Finalized for Project	04/21/17	Task Order #1 with Molzen Corbin and the Village of Ruidoso is Signed and Initiated	05/07/18	High Water Mark and the Village sent back comments regarding the recent Draft 30% Design Evaluation
11/01/10	Finding of No Significant Impact (FONSI) for the Project Approved	05/01/17	FEMA finalizes Project Review	05/10/18	Progress meeting to discuss design and procurement with the Village, Molzen Corbin, High Water Mark, USACE, NMED. Molzen Corbin also submit final 30% Design to Village
04/01/11	Amendment Documentation submitted to FEMA to increase funding	05/31/17	DHS Embargo ends on New Project Obligations	05/24/18	Meeting regarding permitting with USACE, High Water Mark and Molzen Corbin
04/01/11	VOR and Zia submit additional information to FEMA and NMDHSEM	06/01/17	FEMA Amendment is approved for the Project	05/31/18	Progress Meeting with the Village, Molzen Corbin and High Water Mark. Public Meeting with the community of Ruidoso.
04/01/12	Amendment Disapproved due to error	07/01/17	Project Funding Obligated	May 2018: Public meeting with the community of Ruidoso	
04/01/12	VOR addresses FEMA issues	10/01/17	Reviewing EA Constraints and Permitting as they meet with Technical constraints	June 2018: HWM prepares for site visit at the end of the month to begin the permitting process.	
09/01/13	CH2M begins and continues working on sewer line project	11/08/17	Field Visit with NMED, Molzen Corbin, the Village of Ruidoso and High Water Mark.		
07/01/14	30 Percent CH2M Drawings				

Agency Stakeholder Coordination



NMED

- ▶ Primarily concerned about future flood damage and sewer overflows into river
- ▶ Agreeable to rehabilitation for this FEMA funded project
- ▶ Responsible for Section 401 Water Quality Permitting



USACE

- ▶ Require LEDPA
- ▶ Recognize constructability issues and environmental impact of relocation
- ▶ Agreeable to rehabilitation for this FEMA funded project
- ▶ Will administer the Section 404 Permit for the Project



FEMA



FEMA/NMDHSEM

- ▶ HWM has coordinated keeping these agencies abreast of project progress
- ▶ Rehabilitation more closely reflects restoring "form and function" of the damaged infrastructure

High Water Mark will be performing the necessary steps to obtain all permitting requirements with the help of Molzen Corbin and D.T. Collins

Keeping up with the project

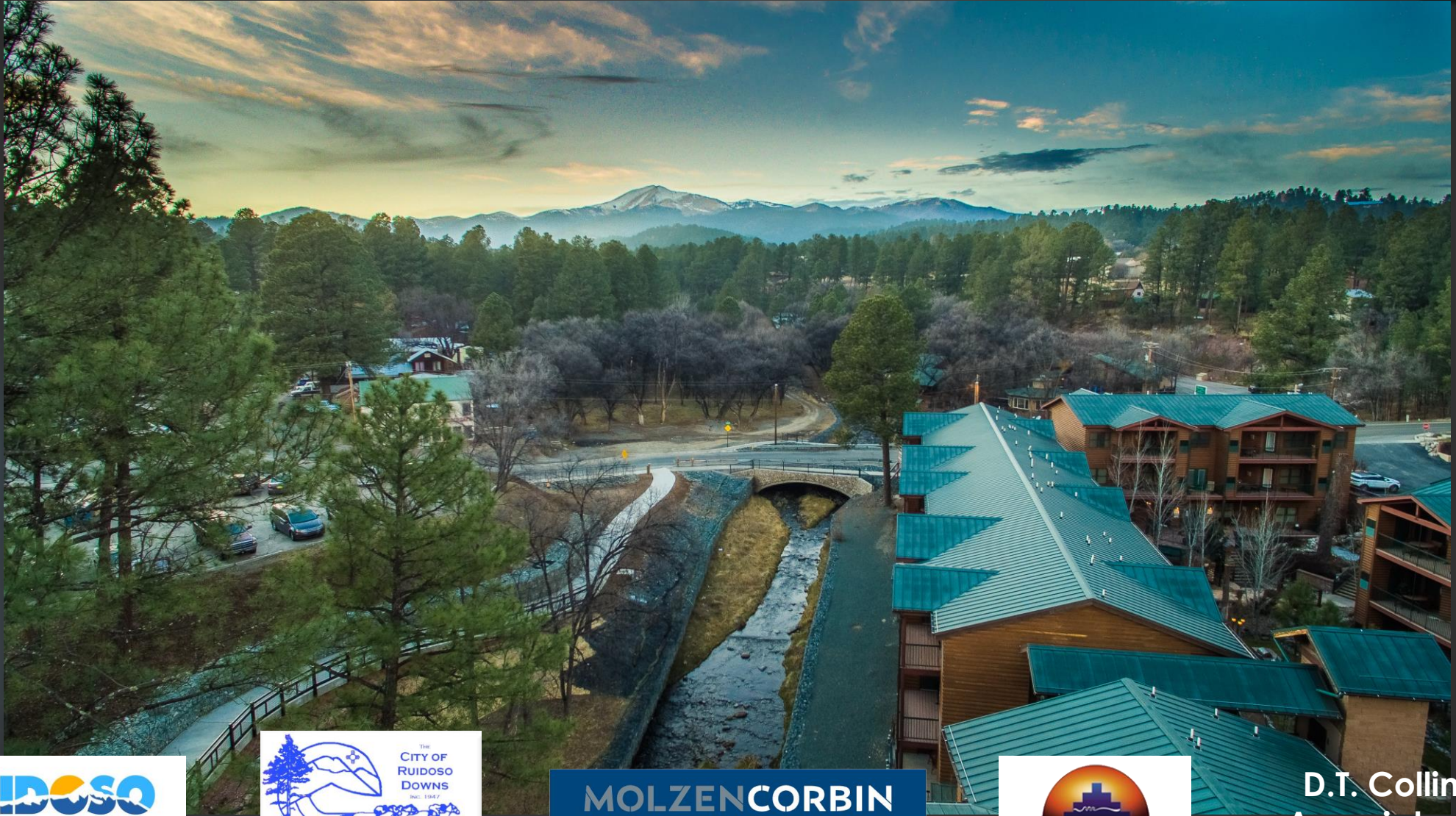
Website Address:

- ▶ <http://ruidoso sewerproject.com>

Contact Information:

- ▶ Email
info@RuidosoSewerProject.com
- ▶ Project hotline phone number:
(844) 543-5729

Questions?



D.T. Collins &
Associates, PC