

**REQUEST FOR PROPOSALS (RFP)
FOR
PROFESSIONAL DESIGN SERVICES**

RFP No. 23-001

Packet No. 1



Project Name: Corrales Waste water

Contracting
Agency: Village of Corrale

Address: 4324 Corrales Road,
Corrales, NM 87048

Telephone: 505-897-0502

Date: 4/24/2023

Funding Type: Federal

This form was prepared by [the Village of Corrales](#) and is endorsed by the Professional Technical Advisory Board (PTAB), which is comprised of the American Council of Engineering Companies (ACEC) New Mexico, New Mexico Society of Professional Engineers (NMSPE), American Institute of Architects (AIA) New Mexico Chapter, New Mexico Professional Surveyors (NMPS), and American Society of Landscape Architects (ASLA) New Mexico Chapter; Local Government Division, Department of Finance and Administration; Rural Utilities Service, US Department of Agriculture; New Mexico Environmental Department; and New Mexico Finance Authority.

For information and suggestions on how to fill out this RFP, please refer to the "OWNER'S MANUAL FOR QUALIFICATIONS-BASED SELECTION (QBS)" at www.ptabnm.org.

NOTICE OF REQUEST FOR PROPOSALS (RFP)

Qualifications-based competitive sealed proposals for professional design services will be received by the Contracting Agency, Village of Corrales for RFP No.23-001

The Contracting Agency is requesting proposals for professional

- | | |
|--|---|
| <input type="checkbox"/> architectural services | <input checked="" type="checkbox"/> engineering services |
| <input checked="" type="checkbox"/> surveying services | <input type="checkbox"/> landscape architectural services |
| <input checked="" type="checkbox"/> planning services | |

for: Waste water , Village of Corrales

Project No. _____

Proposals will be received at 4324 Corrales Road, Corrales, NM 87048 until Friday June 16th at
, 4:00/pm.

Copies of the Request for Proposals (RFPs) can be obtained in person at the office of Clerk at 4324 Corrales Road, Corrales NM 87048 or will be mailed or emailed upon request to Melaine Romero at 505-897-0502 or mromero@corrales-nm.org.

A ☒ mandatory ☐ non-mandatory pre-proposal meeting ☒ will ☐ will not be held on Monday May1st, 2023 at 1:30 pm aCorrales Council Chamber 4324 Corrales Road, Corrales NM 87048.

Interviews ☒ may be held ☐ will not be held for this project after the evaluation of proposals is completed.

PURCHASING AGENT:

Melanie Romero Date: _____

(for Contracting Agency's Use Only)

Newspaper: _____	Publish: _____	P.O. No. _____
Newspaper: _____	Publish: _____	P.O. No. _____
Newspaper: _____	Publish: _____	P.O. No. _____

[Note: This Notice is issued pursuant to the requirements of § 13-1-104 NMSA 1978 and must be published not less than 10 calendar days prior to the date set for the receipt of proposals (§ 13-1-113) and published in a newspaper of general circulation in the area.]

1. PROJECT DESCRIPTION

The Village of Corrales is seeking an engineering firm to work under the direction of the Public Works to plan, design and engineer a waste water system and by-pass for existing STEP system. The new system will utilize gravity and grinder pumps. The new lines will be on Village owned property and or in easements granted for waste water lines on the Loma Larga side of Corrales, the system will need to tie in and operate with the current STEP system on the Corrales Road side. The engineering firm will need to calculate needed pipe diameter and plan for residential line connection. The engineer will be responsible for all design and engineering necessary to complete construction of the waste water line and connection of the by-pass to existing lines based on mapping. The engineer will develop and provide a bid document for use by the Village of Corrales to issue and RFP. The construction will be phased as funding allows and each phase must be fully operational to the endpoint.

2. SCOPE OF WORK

The Offeror shall perform the following professional services:

2.1 Provide standard **Basic Design Services**, consisting of:

Architects/Landscape Architects

- ☐ Programming Phase
- ☐ Schematic Phase
- ☒ Design Development Phase
- ☒ Construction Documents Phase
- ☐ Bidding and Negotiations Phase
- ☐ Construction Administration Phase
- ☐ Post-Construction Phase

Surveyors

- ☐ Property Boundary Survey
- ☐ Topographic Survey
- ☒ Easement Survey
- ☒ Right-of-Way Survey
- ☐ Inspection Report

Additional Services

- ☒ Environmental Documentation
- ☐ Permitting
- ☐ Grant Administration
- ☐ Right-of-Way Acquisition

Engineers

- ☒ Study and Report Phase (PER)
- ☒ Preliminary Design Phase
- ☒ Final Design Phase
- ☐ Bidding and Negotiations Phase
- ☐ Construction Administration Phase
- ☐ Operational Phase

Planning Studies

- ☐ Comprehensive Plan
- ☐ Strategic (i.e. issue specific) Plan
- ☐ Mapping and/or Zoning
- ☐ Other Planning Tasks

2.2 ☐ **Periodic** or ☐ **Full-time**
observation during construction.

2.3 Other (list):

- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

INSTRUCTIONS TO OFFERORS

1. DEFINITIONS AND TERMS

- 1.1. **Addendum:** a written or graphic instrument issued prior to the opening of proposals, which clarifies, corrects, or changes the Request for Proposals. Plural: addenda.
- 1.2. **Consultant:** means the Successful Offeror awarded the Agreement/Contract.
- 1.3. **Determination:** means the written documentation of a decision of the procurement officer including findings of fact required to support a decision. A determination becomes part of the procurement file to which it pertains (§ 13-1-52 NMSA 1978).
- 1.4. **Offeror:** any person, corporation, or partnership legally licensed to provide professional design services in this state who chooses to submit a proposal in response to this Request for Proposals.
- 1.5. **Procurement Manager:** means the person or designee authorized by the Contracting Agency to manage or administer a procurement requiring the evaluation of proposals.
- 1.6. **Request for Proposals:** or "RFP" means all documents, including those attached or incorporated by reference, used for soliciting proposals (§ 13-1-81 NMSA 1978).
- 1.7. **Responsible Offeror or Proposer:** means an offeror or proposer who submits a responsive proposal and who has furnished, when required, information and data to prove that the proposer's financial resources, production or service facilities, personnel, service reputation and experience are adequate to make satisfactory delivery of the services described in the proposal (§ 13-1-83 NMSA 1978).
- 1.8. **Responsive Offer or Proposal:** means an offer or proposal that conforms in all material respects to the requirements set forth in the request for proposals. Material respects of a request for proposals include, but are not limited to, price, quality, quantity or delivery requirements (§ 13-1-85 NMSA 1978).
- 1.9. The terms **must, shall, will, is required, or are required**, identify a mandatory item or factor that will result in the rejection of the offeror's proposal.
- 1.10. The terms **can, may, should, preferably, or prefers** identify a desirable or discretionary item or factor.

2. REQUEST FOR PROPOSAL DOCUMENTS

- 2.1. COPIES OF REQUEST FOR PROPOSALS (RFP)
 - A. A complete set of the RFP may be obtained from the Contracting Agent.
 - B. A complete set of the RFP shall be used in preparing proposals; the Contracting Agency assumes no responsibility for errors or misinterpretations resulting from the use of an incomplete set of the RFP.
 - C. The Contracting Agency in making copies of RFP available on the above terms, does so only for the purpose of obtaining proposals on the Project and does not confer a license or grant for any other use.
 - D. A copy of the RFP shall be made available for public inspection and shall be posted at the Administration Building of the Contracting Agency.
- 2.2. INTERPRETATIONS
 - A. All questions about the meaning or intent of the RFP shall be submitted to the Procurement Manager of the Contracting Agency in writing. Replies will be issued by Addenda mailed or delivered to all parties recorded by the Contracting Agency as having received the RFP. Questions received less than five days prior to the date for opening of proposals will not be answered. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
 - B. Offerors should promptly notify the Contracting Agency of any ambiguity, inconsistency, or error, which they may discover upon examination of the RFP.
- 2.3. ADDENDA
 - A. Addenda will be emailed, mailed, faxed, or hand delivered to all who are known by the Contracting Agency to have received a complete copy of the RFP.
 - B. Copies of Addenda will be made available for inspection wherever RFPs are on file for that purpose.
 - C. No Addenda will be issued later than five days prior to the date for receipt of proposals, except an Addendum withdrawing the RFP or one which includes postponement of the date for receipt of proposals.
 - D. Each Offeror shall ascertain, prior to submitting the Proposal, that the Offeror has received all Addenda issued and shall

acknowledge their receipt in the Proposal Cover Letter.

3. PROPOSAL SUBMITTAL PROCEDURES

3.1. NUMBER, FORM AND STYLE OF PROPOSALS

- A. Offerors shall provide **5** copies of their proposal to the location specified on Page 2 on or before the closing date and time for receipt of proposals.
 - B. All proposals must be typewritten on standard 8-1/2" x 11" paper and bound on the left-hand margin.
 - C. A maximum of **25** pages, not including front and back covers, cover letter, table of contents, Resident Business or Resident Veteran Business Certificates/Certification Form, and Campaign Contribution Disclosure Form.
 - D. The proposal must be organized in the following format and must contain, as a minimum, all listed items in the sequence indicated:
 - 1) Cover Letter
 - 2) Response to Evaluation Criteria included in this RFP.
 - 3) Other supporting or resource material
 - E. Any proposal that does not adhere to this format, and which does not address each specification and requirement within the RFP, may be deemed non-responsive and rejected on that basis.
 - F. Offerors may request in writing nondisclosure of confidential data. Such data should accompany the proposal and should be readily separable from the proposal in order to facilitate eventual public inspection of the non-confidential portion of the proposal. A request stating the entire proposal is confidential will not be acceptable. Only matters, which clearly are of a confidential nature, will be considered.
 - G. Any cost incurred by the Offeror in preparation, transmittal, and presentation of any proposal or material submitted in response to this RFP shall be borne solely by the Offeror.
- #### 3.2. SUBCONSULTANTS
- A. The Offeror shall list and state the qualifications for each subconsultant the Offeror proposes to use for all subcontracted work.
 - B. The Offeror is specifically advised that any person or other party to whom it is proposed

to award a subcontract under this proposal, must be acceptable to the Contracting Agency after verification by the Contracting Agency of the current eligibility status, including, but not limited, to suspension or debarment by the Contracting Agency.

3.3. PREQUALIFICATION PROCESS

A business may be pre-qualified by the Purchasing Agent as an Offeror for particular types of service. Mailing lists of potential Offerors shall include but shall not be limited to such pre-qualified businesses (§ 13-1-134 NMSA 1978). For purposes of this RFP, if pre-qualification is utilized, special instructions will be attached as an exhibit to this RFP.

3.4. DEBARRED OR SUSPENDED CONTRACTORS

A business (contractor, subcontractor or supplier) that has either been debarred or suspended pursuant to the requirements of § 13-1-177 through § 13-1-180, and § 13-3-11 through § 13-4-17 NMSA 1978 as amended, shall not be permitted to do business with the Contracting Agency and shall not be considered for award of the contract during the period for which it is debarred or suspended with the Contracting Agency.

3.5. SUBMITTAL OF PROPOSALS

- A. Proposals shall be submitted at the time and place indicated in the Notice of Request for Proposals and shall be included in an opaque sealed envelope marked with the Project title and name and address of the Offeror and accompanied by the documents listed in the Request for Proposal.
- B. The envelope shall be addressed to the Purchasing Agent/Procurement Officer of the Contracting Agency. The following information shall be provided on the front lower left corner of the envelope: project title, project number, RFP number, date of opening, and time of opening. If the proposal is sent by mail, the sealed envelope shall have the notation "SEALED PROPOSAL ENCLOSED" on the face thereof.
- C. Proposals received after the date and time for receipt of proposals will be returned unopened.
- D. The Offeror shall assume full responsibility for timely delivery of proposals at the Purchasing Agent's office, including those proposals submitted by mail. Hand-delivered proposals shall be submitted to the Purchasing Agent or the Purchasing Agent's designee and will be clocked

in/time stamped at the time received, which must be prior to the time specified.

- E. After the date established for receipt of proposals, a register of proposals will be prepared which includes the name of each Offeror, a description sufficient to identify the service, the names and addresses of the required witnesses, and such other information as may be specified by the Purchasing Agent.
- F. Oral, telephonic, or telegraphic proposals are invalid and will not receive consideration.

3.6. CORRECTION OR WITHDRAWAL OF PROPOSALS

- A. A proposal containing a mistake discovered before proposal opening may be modified or withdrawn by an Offeror prior to the time set for proposal opening by delivering written or telegraphic notice to the location designated in the RFP as the place where proposals are to be received.
- B. Withdrawn proposals may be resubmitted up to the time and date designated for the receipt of proposals, provided they are then fully in conformance with the RFP.

3.7. NOTICE OF CONTRACT REQUIREMENTS BINDING ON OFFEROR

- A. In submitting this proposal, the Offeror represents that the Offeror has familiarized itself with the nature and extent of the RFP dealing with federal, state, and local requirements, which are a part of these RFP.
- B. Laws and Regulations: The Offeror's attention is directed to all applicable federal and state laws, local ordinances and regulations, and the rules and regulations of all authorities having jurisdiction over the services of the project.

3.8. REJECTION OR CANCELLATION OF PROPOSALS

This RFP may be canceled, or any or all proposals may be rejected in whole or in part, when it is in the best interest of the Contracting Agency. A determination containing the reasons therefore shall be made part of the project file (§13-1-131 NMSA 1978).

4. CONSIDERATION OF PROPOSALS

4.1. RECEIPT, OPENING AND RECORDING

- A. Proposals received on time will be opened publicly or in the presence of one or more

witnesses and the name of the Offeror and address will be read aloud.

- B. The names of all businesses submitting proposals and the names of all businesses, if any, selected for interview shall be public information. After an award has been made, final ranking and evaluation scores for all proposals shall become public information. (§13-1-120 NMSA 1978). The contents of any proposal shall not be disclosed so as to be available to competing Offerors during the negotiation process (§ 13-1-116 NMSA 1978).

4.2. PROPOSAL EVALUATION

- A. Proposals shall be evaluated on the basis of demonstrated competence and qualifications for the type of service required and shall be based on the evaluation factors set forth in this RFP. Price, including costs or fees, cannot be considered in the evaluation of proposals for professional services (architecture, engineering, surveying, and landscape architecture, §13-1-120 NMSA 1978). For the purpose of conducting discussions, proposals may initially be classified as:
 - 1) Acceptable,
 - 2) Potentially acceptable, that is, reasonably assured of being made acceptable, or
 - 3) Unacceptable (Offerors whose proposals are unacceptable shall be notified promptly).
- B. The Contracting Agency shall have the right to waive technical irregularities in the form of the proposal of the Offeror, which do not alter the quality or quantity of the services (§ 13-1-132 NMSA 1978).
- C. If an Offeror who otherwise would have been awarded a contract is found not to be a responsible Offeror, a Determination that the Offeror is not a responsible Offeror, setting forth the basis of the finding, shall be prepared by the Purchasing Agent/Procurement Manager. The unreasonable failure of the Offeror to promptly supply information in connection with an inquiry with respect to responsibility is grounds for a determination that the Offeror is not a responsible Offeror (§ 13-1-133 NMSA 1978). Businesses, which have not been selected, shall be so notified in writing within twenty-one days after an award is made (§ 13-1-120 NMSA 1978).
- D. Selection Process: (§ 13-1-120 NMSA 1978).

- 1) An evaluation committee composed of representatives selected by the Contracting Agency will perform an evaluation of proposals. The committee shall evaluate statements of qualifications and performance data submitted by at least three businesses in regard to the particular project and may conduct interviews with and may require public presentation by all businesses applying for selection regarding their qualifications, their approach to the project, and their ability to provide the required services.
- 2) If fewer than three businesses have submitted a statement of qualifications for a particular project, the committee may:
 - a) Rank in order of qualifications and submit to the local governing body for award those businesses which have submitted a statement of qualifications; or
 - b) Recommend termination of the selection process and sending out of new notices of the proposed procurement pursuant to § 13-1-104 NMSA 1978.

4.3. NEGOTIATIONS (§13-1-122 NMSA 1978)

- A. The Contracting Agency's designee shall negotiate a contract with the highest qualified business for the services contemplated under this RFP at compensation determined in writing to be fair and reasonable. In making this decision, the designee shall take into account the estimated value of the services to be rendered and the scope, complexity and professional nature of the services.
- B. Should the designee be unable to negotiate a satisfactory contract with the business considered to be the most qualified at a price determined to be fair and reasonable, negotiations with that business shall be formally terminated. The designee shall then undertake negotiations with the second most qualified business. Failing accord with the second most qualified business, the designee shall formally terminate negotiations with that business.
- C. The designee shall then undertake negotiations with the third most qualified business.
- D. Should the designee be unable to negotiate a contract with any of the businesses selected by the committee, additional businesses shall be ranked in order of their

qualifications, and the designee shall continue negotiations in accordance with this section until a contract is signed with a qualified business or the procurement process is terminated and a new RFP is initiated.

- E. The Contracting Agency shall publicly announce the business selected for award.

4.4. NOTICE OF AWARD

After award by the local governing body, a written notice of award shall be issued by the Contracting Agency after review and approval of the proposal and related documents by the Contracting Agency with reasonable promptness (§ 13-1-100 and § 13-1-108 NMSA 1978).

5. POST-PROPOSAL INFORMATION

5.1. PROTESTS

- A. Any Offeror who is aggrieved in connection with a solicitation or award of a Agreement may protest to the Contracting Agency's Purchasing Agent and the Chief Administrator/Clerk in accordance with the requirements of the Contracting Agency's Procurement Regulations and the state Procurement Code. The protest should be made in writing within 24 hours after the facts or occurrences giving rise thereto, but in no case later than 15 calendar days after the facts or occurrences giving rise thereto (§ 13-1-172 NMSA 1978).
- B. In the event of a timely protest under this section, the Purchasing Agent and the Contracting Agency shall not proceed further with the procurement unless the Purchasing Agent makes a determination that the award of Agreement is necessary to protect substantial interests of the Contracting Agency (§ 13-1-173 NMSA 1978).
- C. The Purchasing Agent or the Purchasing Agent's designee shall have the authority to take any action reasonably necessary to resolve a protest of an aggrieved Offeror concerning procurement. This authority shall be exercised in accordance with adopted regulations, but shall not include the authority to award money damages or attorneys' fees (§ 13-1-174 NMSA 1978).
- D. The Purchasing Agent or the Purchasing Agent's designee shall promptly issue a determination relating to the protest. The determination shall:
 - 1) State the reasons for the action taken; and

- 2) Inform the protestant of the right to judicial review of the determination pursuant to § 13-1-183 NMSA 1978.

E. A copy of the determination issued under § 13-1-175 NMSA 1978 shall immediately be mailed to the protestant and other Offerors involved in the procurement (§ 13-1-176 NMSA 1979).

5.2. EXECUTION AND APPROVAL OF AGREEMENT

The Agreement shall be signed by the Successful Offeror and returned within an agreed time frame after the date of the Notice of Award. No Agreement shall be effective until it has been fully executed by all of the parties thereto.

5.3. NOTICE TO PROCEED

The Contracting Agency will issue a written Notice to Proceed to the Consultant.

5.4. OFFEROR'S QUALIFICATION STATEMENT

Offeror to whom award of an Agreement is under consideration shall submit, upon request, information and data to prove that their financial resources, production or service facilities, personnel, and service reputation and experience are adequate to make satisfactory delivery of the services described in the Request for Proposals (§ 13-1-82 NMSA 1978).

6. OTHER INSTRUCTIONS TO OFFERORS

Resident Business Preference or Resident Veteran Business Preference (required by House Bill 93, 2016):

Points will be awarded based on Offeror's ability to provide a copy of a current Resident Business certificate or Resident Veteran Business certificate.

6.1 Resident Business Preference

For the Offeror to receive a Resident Business Preference, the business shall submit, with this proposal, a copy of a valid Resident Business certificate issued by the New Mexico Taxation & Revenue Department. The application for preference may be downloaded at the following website:

<http://www.tax.newmexico.gov/forms-and-publications/pages/recently-updated.aspx>.

An Offeror who qualifies as a Resident Business shall receive a 5% preference added to the total possible points of the selection process.

6.2 Resident Veteran Business Preference

For the Offeror to receive a Resident Veteran Business Preference, the business shall complete, sign, and include with the proposal the attached certification form, along with a copy of a valid Resident Veteran Business Preference certificate issued by the New Mexico Taxation & Revenue Department. The application for preference may be downloaded at the following website:

<http://www.tax.newmexico.gov/forms-and-publications/pages/recently-updated.aspx>.

Offerors seeking a Resident Veteran Business Preference will be evaluated as follows:

- A. Resident Veteran Businesses with annual gross revenues of up to \$3M shall receive a 10% preference added to the total possible points of the selection process.

Preference points are added only once to the total possible points of the overall selection process.

Example: A selection process has total possible points of 1,000 points. Five proposals are received: one from a Resident Business, one from a Resident Veteran Business, and three non-resident businesses. The Resident Business would receive 50 points (5% of 1,000 possible points) and the Resident Veteran Business would receive 100 points (10% of 1,000 possible points) which would be added to the total of their evaluated scores, thereby making it possible for the highest possible total points to be 1,100.

An additional example of the scoring process is attached to this RFP.

Note: Neither the Resident Business Preference nor the Resident Veteran Business Preference can be awarded for any project/contract if it includes federal funds.

6.3 Campaign Contribution Disclosure Form

The Offeror shall submit, with its proposal, the signed Campaign Contribution Disclosure Form with the name(s) of applicable public official(s) filled in on the form.

GENERAL TERMS AND CONDITIONS

1. GOVERNING LAW

The Agreement shall be governed exclusively by the laws of the State of New Mexico as the same from time to time exists.

2. INDEPENDENT CONTRACTORS

The Consultant (design professionals) and the Consultant's agents and employees are independent Contractors and are not employees of the Contracting Agency. The Consultant and Consultant's agents and employees shall not accrue leave, retirement, insurance, bonding, use of Contracting Agency vehicles, or any other benefits afforded to employees of the Contracting Agency as a result of the Agreement.

3. BRIBES, GRATUITIES AND KICK-BACKS

Pursuant to §13-1-191 NMSA 1978, reference is hereby made to the criminal laws of New Mexico (including § 30-14-1, § 30-24-2, and § 30-41-1 through § 30-41-3 NMSA 1978) which prohibits bribes, kickbacks, and gratuities, violation of which constitutes a felony. Further, the Procurement Code (§ 13-1-28 through § 13-1-199 NMSA 1978) imposes civil and criminal penalties for its violation.

4. STANDARD FORM OF AGREEMENT BETWEEN CONTRACTING AGENCY AND CONSULTANT (Design Professional)

The form of agreement required by the funding agency or issued by the Contracting Agency will be used for this project. Copies are available and may be reviewed upon request.

5. FEES

A lump sum fixed fee for Basic Services will be negotiated with the Offeror selected.

Additional Services may also be negotiated with the Offeror selected.

6. FUNDING

This solicitation is subject to the availability of funds to accomplish the work.

7. DESIGN PROFESSIONAL REGISTRATION

All work shall be under the direction of the applicable design professional legally licensed and registered by the State.

8. PROFESSIONAL LIABILITY INSURANCE

The Offeror ☒ **will** ☐ **will not** be required to carry professional liability (errors and omissions) insurance. If required to carry such insurance, [the amount of coverage will be 1,000,000.00.](#)

Note to Owner Regarding Evaluation Criteria

The Request for Proposal must include each of the following Evaluation Criteria* as required by statute (§ 13-1-120.B NMSA 1978). Each proposal submitted must address the required Evaluation Criteria. Based on the complexity of the project, the Owner may add additional items to be evaluated. The Owner must assign a weight factor to each of the Evaluation Criteria to communicate to Offerors the relative importance of each.

EVALUATION CRITERIA:

1. **Specialized Design and Technical Competence***

Specialized design and technical competence of the business, including a joint venture or association, regarding the type of services required.

2. **Capacity and Capability***

Capacity and capability of the business, including any consultants, their representatives, qualifications, and locations, to perform the work, including any specialized services, within the time limitations.

3. **Past Record of Performance***

Past record of performance on contracts with government agencies or private industry with respect to such factors as control of costs, quality of work, and ability to meet schedules.

4. **Familiarity with the Contracting Agency***

Proximity to or familiarity with the area in which the project is located.

5. **Work to be Done in New Mexico***

The amount of design work that will be produced by a New Mexico business within this state. **Note: Not allowed for federally funded projects.**

6. **Current Volume of Work with the Contracting Agency Not 75% Complete***

The volume of work previously done for the entity requesting proposals which is not seventy-five percent complete with respect to basic professional design services [through bidding phase], with the objective of effecting an equitable distribution of contracts among qualified businesses and of assuring the interest of the public in having available a substantial number of qualified businesses is protected; however, that the principal of selection of the most highly qualified business is not violated.

Indicate the volume of work currently underway with the Contracting Agency that is less than seventy-five percent complete. An example of how points can be assigned is provided below:

Value of work not yet completed on projects that are not 75% Complete	(Example) Points to be allowed for this item
None	5
\$1 to \$ 25,000	4
25,001 to 50,000	3
50,001 to 75,000	2
75,001 to 100,000	1
100,001 or more	0

7. **Other Contracting Agency Criteria**

The Owner may add additional elements to be evaluated, such as Public Involvement Experience, and assign points according to their importance. **Note: Price cannot be a factor (§ 13-1-120.B NMSA 1978). Price of any type, i.e. fees, fee schedule, etc., cannot be included with the proposal. This includes a separate sealed envelope, which also is not allowed.**

RFP EVALUATION CRITERIA

EVALUATION CRITERIA AND POINT VALUES

OFFERORS:

Proposal must address each of the following criteria. Each proposal may be awarded points up to the amount listed.

RATING SHEET FOR: Applicant _____		
ITEM	POSSIBLE POINTS	SCORE
PLANNING & DESIGN SERVICES		
1. Specialized Design and Technical Competence*	_____ (30)	
2. Capacity and Capability*	_____ (30)	
3. Past Record of Performance*	_____ (25)	
4. Familiarity with the Contracting Agency *	_____ (10)	
5. Work to be Done in New Mexico* <i>Note: Not allowed for federally funded projects. Assign Possible Points of 0 if federal funds are involved.</i>	_____ (0)	
6. Current Volume of Work with the Contracting Agency Not 75% Complete*	_____ (5)	
7. Other Contracting Agent Criteria (if desired) none	_____ (0)	
SUBTOTAL (total possible points for PLANNING & DESIGN SERVICES)	_____ (100)	

****Items required by statute (§ 13-1-120.B NMSA 1978).***

RATING SHEET (CONTINUED) FOR: Applicant _____		
ITEM	POSSIBLE POINTS	SCORE
CONSTRUCTION OBSERVATION SERVICES		
1. Construction observation experience.	_____ (5)	
2. Experience with start up assistance to the Owner of new facilities, if applicable.	_____ (5)	
3. Capacity and capability of the consultant to provide strategies to assist in meeting the Owner's construction timeframe.	_____ (5)	
4. History of past performance, including the record of bid amount versus final close out contract amount.	_____ (5)	
5. History of legal claims, if applicable, on similar construction projects and their resolution. The consultant should detail their claims avoidance approach and construction observation philosophy.	_____ (5)	
6. Other none	_____ (0)	
7. Other none	_____ (0)	
<p style="text-align: right;">SUBTOTAL</p> <p>(total possible points for CONSTRUCTION OBSERVATION SERVICES)</p>	_____ (25)	
<p style="text-align: right;">TOTAL SCORE</p> <p>(total possible points for PLANNING & DESIGN SERVICES and CONSTRUCTION OBSERVATION SERVICES)</p>	_____ (125)	

Interviews ☒ may be held ☐ will not be held for this project, [Corrales Waste water](#).

INTERVIEW EVALUATION CRITERIA

INTERVIEW RATING SHEET FOR: Applicant _____		
ITEM	POSSIBLE POINTS	SCORE
1. Describe your project manager's and project team's experience specifically relevant to this project.	_____ (10)	
2. What unique experience does your project team have that can be applied to the successful completion of this project?	_____ (15)	
3. Describe the approach your project team will take to successfully complete this project.	_____ (20)	
4. What are the project's critical issues, and how will your project team approach and address them?	_____ (15)	
5. What challenges do you foresee for this project, and how will your project team address and overcome them?	_____ (15)	
6. What innovative ideas or concepts will your project team apply to this project?	_____ (15)	
7. Describe the strengths and weaknesses of your project team?	_____ (10)	
6. Other none	_____ (0)	
7. Other none	_____ (0)	
TOTAL SCORE	_____ (100)	

The above are suggested EVALUATION CRITERIA and POSSIBLE POINTS for interviews.

CAMPAIGN CONTRIBUTION DISCLOSURE FORM

Pursuant to the Procurement Code, Sections 13-1-28, et seq., NMSA 1978 and NMSA 1978, § 13-1-191.1 (2006), as amended by Laws of 2007, Chapter 234, any prospective contractor seeking to enter into a contract with any state agency or local public body **for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources** must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two year period.

Furthermore, the state agency or local public body may cancel a solicitation or proposed award for a proposed contract pursuant to Section 13-1-181 NMSA 1978 or a contract that is executed may be ratified or terminated pursuant to Section 13-1-182 NMSA 1978 of the Procurement Code if: 1) a prospective contractor, a family member of the prospective contractor, or a representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or 2) a prospective contractor fails to submit a fully completed disclosure statement pursuant to the law.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

"Applicable public official" means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

"Campaign Contribution" means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for the purpose of electing the official to statewide or local office. "Campaign Contribution" includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

"Family member" means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in-law of (a) a prospective contractor, if the prospective contractor is a natural person; or (b) an owner of a prospective contractor.

"Pendency of the procurement process" means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

"Prospective contractor" means a person or business that is subject to the competitive sealed proposal process set forth in the Procurement Code or is not required to submit a competitive sealed proposal because that person or business qualifies for a sole source or a small purchase contract.

"Representative of a prospective contractor" means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

Name(s) of Applicable Public Official(s) if any:

[James F Fahey, Jr MD Mayor](#)

[Rick Miera Councilor](#)

[Bill Woldman Councilor](#)

[Mel Knight Councilor](#)

[John P Alsobrook, II Councilor](#)

[Zachary Burkett Councilor](#)

[Stuart Murry Councilor](#)

DISCLOSURE OF CONTRIBUTIONS BY PROSPECTIVE CONTRACTOR:

Contribution Made By: _____

Relation to Prospective Contractor: _____

Date Contribution(s) Made: _____

Amount(s) of Contribution(s) _____

Nature of Contribution(s) _____

Purpose of Contribution(s) _____

(Attach extra pages if necessary)

Signature

Date

Title (position)

--OR--

NO CONTRIBUTIONS IN THE AGGREGATE TOTAL OVER TWO HUNDRED FIFTY DOLLARS (\$250) WERE MADE to an applicable public official by me, a family member or representative.

Signature

Date

Title (Position)

Veterans Preference Certification

_____ (Name of Business) hereby certifies the following in regard to application of the resident veteran preference to this formal request for proposals process:

Please check one box only:

- ☐ I declare under penalty of perjury that my business prior year revenue starting January 1 ending December 31 is less than \$3M allowing me the 10% preference discount on this bid or proposal. I understand that knowingly giving false or misleading information about this fact constitutes a crime.

"I agree to submit a report, or reports, to the State Purchasing Division of the General Services Department declaring under penalty of perjury that during the last calendar year starting January 1 ending December 31, the following to be true and accurate:

"In conjunction with this procurement and the requirements of this business' application for a Resident Veteran Business Preference/Resident Veteran Contractor Preference under Sections 13-1-21 or 13-1-22 NMSA 1978, when awarded a contract which was on the basis of having such veterans preference, I agree to report to the State Purchasing Division of the General Services Department the awarded amount involved. I will indicate in the report the award amount as a purchase from a public body or as a public works contract from a public body as the case may be."

"I declare under penalty of perjury that this statement is true to the best of my knowledge. I understand that giving false or misleading statements about material fact regarding this matter constitutes a crime."

(signature of Business Representative)*

(Date)

*Must be an authorized signatory for the Business.

The representation made in checking the boxes constitutes a material representation by the business that is subject to protest and may result in denial of an award or unaward of the procurement involved if the statements are proven incorrect.

EXAMPLE OF SCORING

	Total Possible Points	Consultant Firm A (Resident Veteran Business)	Consultant Firm B (Resident Business)	Consultant Firm C
Score from PLANNING & DESIGN SERVICES Section	100	90	85	80
Score from CONSTRUCTION OBSERVATION SERVICES Section (N/A if Section not included)	25	20	25	20
Score from INTERVIEW Section (N/A if Section not included)	100	90	85	80
Subtotal Score		200	195	180
Total Possible Points (of all Sections included)	225			
Total Preference Points Applied, if applicable (total preference points for Resident Business is equal to 5% of the Total Possible Points or Resident Veteran Business is equal to 10% of the total possible points); only one can apply		22.5 Because Consultant Firm A is a Resident Veteran Business, 22.5 points (10% of the Total Possible Points of 225) are added to the firm's Subtotal	11.25 Because Consultant Firm B is a Resident Business, 11.25 points (5% of the Total Possible Points of 225) are added to the firm's Subtotal	0 Because Consultant Firm C is neither a Veteran Resident Business nor a Resident Business, 0 points are added to the firm's Subtotal
Total Score		222.5	206.25	180

Notes:

*Neither the Resident Business Preference nor the Resident Veteran Business Preference can be awarded for any project/contract if it includes **federal funds**.*

*Either the Resident Business Preference **or** the Resident Veteran Business Preference is applied. Both cannot be applied to the score of an individual Consultant Firm.*

CERTIFICATIONS

Project Name _____ Project Number _____

Contract For _____

The following certifications must be completed by the bidder for each contract.**A. EQUAL EMPLOYMENT OPPORTUNITY:**

- ☐ I have developed and have on file at my each establishment affirmative action programs pursuant to 41 CFR Part 60-2.
- ☐ I have participated in previous contract(s) or subcontract(s) subject to the equal opportunity clause under **Executive Orders 11246 and 11375**. I have filed all reports due under the requirements contained in 41 CFR 60-1.7.
- ☐ I have not participated in previous contract(s) subject to the equal opportunity clause under **Executive Orders 11246 and 11375**.
- ☐ I will obtain a similar certification from any proposed subcontractor(s), when appropriate.

B. NONSEGREGATED FACILITIES

- ☐ I certify that I do not and will not maintain any facilities provided for my employees in a segregated manner, or permit my employees to perform their services at any location under my control where segregated facilities are maintained; and that I will obtain a similar certification prior to the award of any federally assisted subcontract exceeding \$10,000 which is not exempt from the equal opportunity clause as required by 41 CFR 60-1.8.

I understand that a false statement on this certification may be grounds for rejection of this bid proposal or termination of the contract award._____
Typed Name & Title of Bidder's Authorized Representative_____
Signature of Bidder's Authorized Representative_____
Date_____
Name & Address of Bidder

NOTE: The bidder shall complete the following Minority/Women's Business Enterprises (MBE/WBE) utilization information whenever they solicit sub contract services for the project in order to provide the fair share of the total dollar amount of the contract for

1. Do you maintain and update qualified MBE and WBE on your solicitation lists for supplies, equipment, construction and/or service?

Yes____ No____

If yes, when did you update your MBE/WBE solicitation lists? _____

2. Do you maintain a list of minority and women business-focused publications that may be utilized to solicit MBEs or WBEs?

Yes____ No____

If yes, name the publications: _____

3. Do you use the services of outreach programs sponsored by the Minority Business Development Agency to recruit bona fide MBE/WBE firms for placement on your solicitation lists? Yes____ No____

4. Do you seek out Minority Business Development Centers to assist you in identifying MBEs/WBEs for potential work opportunities on your proposed bid for this project? Yes____ No____

5. Do you analyze the bid package or contract documents to identify portions of work that can be divided and performed by qualified MBEs, WBEs including the bonding range? Yes____ No____

If yes, please attach a brief description of portions of work you have identified for subcontracting.

6. Do you develop realistic delivery schedules which may provide for greater MBE/WBE participation? Yes____ No____

7. Do you send a letter of solicitation to MBE/WBE for this project? Yes____ No____

If yes, please attach a sample copy of each different solicitation letter and the name and address of each MBE/WBE.

8. Do you advertise in general circulation, trade journals, State agency publications of identified MBEs/WBEs business focused media, etc., concerning the subcontracting opportunities on your proposed bid for this project? Yes____ No____

If yes, please list the name of publication and dates of advertisement and attach a copy of each advertisement from each publication.

9. Do you conduct pre-bid, pre-solicitation, and post award conferences, meetings and follow-ups with interested MBEs/WBEs? Yes____ No____

If yes, please list person who attended conference as representative of MBE/WBE

Name & Title of Person: _____

Name of MBE/WBE: _____

Address: _____ Phone: _____

Date and Place of Conference: _____

If yes, please list person who attended conference as representative of MBE/WBE

Name & Title of Person: _____

Name of MBE/WBE: _____

Address: _____ Phone: _____

Date and Place of Conference: _____

If yes, please list person who attended conference as representative of MBE/WBE

Name & Title of Person: _____

Name of MBE/WBE: _____

Address: _____ Phone: _____

Date and Place of Conference: _____

10. Total dollar amount of the contract:

\$

11. Total dollar amount and percentage of MBE/WBE participation:

MBE:	Construction: <u>n/a</u> %	Equipment: <u>n/a</u> %	Supplies: <u>n/a</u> %	Services: _____%
	(\$) <u>n/a</u>	(\$) <u>n/a</u>	(\$) <u>n/a</u>	(\$) _____
WBE:	Construction: <u>n/a</u> %	Equipment: <u>n/a</u> %	Supplies: <u>n/a</u> %	Services: _____%
	(\$) <u>n/a</u>	(\$) <u>n/a</u>	(\$) <u>n/a</u>	(\$) _____

12. Name, address, phone number, contact person, type of construction subcontract, and dollar amount of subcontract.

MBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

WBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

MBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

WBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

MBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

WBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

MBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

WBE Subcontractor:

Address:

Phone:

Contact Person:

Type of Work:

Amount: \$

I understand that a false statement on the above information may be grounds for rejection of this bid proposal or termination of the contract award.

Typed Name & Title of Authorized Representative

Signature of Service Provider's Authorized Representative

Date

EPA Project Control Number

United States Environmental Protection Agency
Washington, DC 20460

**Certification Regarding
Debarment, Suspension, and Other Responsibility Matters**

The prospective participant certifies to the best of its knowledge and belief that it and the principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction: violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for otherwise criminally or civilly charged by a government entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State, or local) terminated or cause or default.

I understand that a false statement on this certification may be ground for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Typed Name & Title of Authorized Representative

Signature of Bidder's Authorized Representative

Date

☐ I am unable to certify to the above statements. My explanation is attached.
EPA Form 5700-49 (11-88)

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. An EPA Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractors bid or proposal package.

Subcontractor Name		Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity:	

Contract Item Number	Description of Work Submitted to the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
DBE Certified By: <input type="radio"/> DOT <input type="radio"/> SBA <input type="radio"/> Other: _____		Meets/ exceeds EPA certification standards? <input type="radio"/> YES <input type="radio"/> NO <input type="radio"/> Unknown

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form**

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

Subcontractor Signature	Print Name
Title	Date

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form**

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE¹ subcontractors² and the estimated dollar amount of each subcontract. An EPA Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name		Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Issuing/Funding Entity:			

I have identified potential DBE certified subcontractors	<input type="checkbox"/> YES <input type="checkbox"/> NO		
If yes, please complete the table below. If no, please explain:			
Subcontractor Name/ Company Name	Company Address/ Phone/ Email	Est. Dollar Amt	Currently DBE Certified?

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

**Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form**

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date



VILLAGE OF CORRALES

ORDINANCE NO. 14-09

AN ORDINANCE RELATING TO THE COLLECTION, TRANSPORTATION AND DISPOSAL OF LIQUID WASTE IN THE VILLAGE OF CORRALES; REPEALING AND REPLACING ORDINANCE NO. 13-007, ADOPTED MAY 14, 2013; DEFINING TERMS; ESTABLISHING A WASTEWATER UTILITY SYSTEM WITHIN THE PUBLIC WORKS DEPARTMENT; DESIGNATING A PRIMARY WASTEWATER UTILITY SERVICE AREA; PROVIDING FOR SERVICE CONNECTIONS TO THE WASTEWATER UTILITY SYSTEM, INCLUDING MINIMUM REQUIREMENTS AND INSPECTION THEREOF; PROVIDING FOR THE OPERATION, MAINTENANCE AND REPAIR OF THE WASTEWATER UTILITY SYSTEM; PROHIBITING CERTAIN DISCHARGES AND ACTIVITIES IN CONNECTION WITH LIQUID WASTE AND WASTEWATER UTILITY SERVICE; ESTABLISHING A SYSTEM OF RATES AND CHARGES FOR WASTEWATER UTILITY SERVICE; PROVIDING FOR TERMINATION AND RECONNECTION OF WASTEWATER UTILITY SERVICE; AND PROVIDING A PENALTY FOR VIOLATIONS.

WHEREAS, the Village has constructed a wastewater collection and transportation system (the "Wastewater Utility System") along Corrales Road from Old Church Road southward, connecting with the Albuquerque Bernalillo County Water Utility Authority's (ABCWUA's) wastewater collection system at a point south of the Village to reduce the ground discharge of wastewater from septic systems in the Corrales Road Commercial Area along Corrales Road as defined in by providing an alternative system of wastewater disposal; and

WHEREAS, the Wastewater Utility System is a pressurized system designed and constructed to collect and transport liquid waste discharged from individual septic tank effluent pumping (STEP) systems; and

WHEREAS, the Village Council, the governing body of the Village ("Governing Body") finds that the Village should provide for commencement of wastewater utility service and the continuing operation and maintenance of the Wastewater Utility System as constructed; and

WHEREAS, the Governing Body finds that the Village should adopt appropriate regulations regarding the use of the Wastewater Utility System, consistent with the regulations of ABCWUA as owner and operator of the receiving wastewater utility system and of the publicly operated treatment works that will treat the wastewater prior to its release into the Rio Grande; and

WHEREAS, it is necessary for the Village to recover any reasonable costs the Village has incurred for the construction of the Wastewater Utility System and also to recover any reasonable costs it will incur in operating the Wastewater Utility System; and

WHEREAS, STEP systems require the installation of specific types of filtration and pumping equipment on service connections of individual wastewater customers, and it is necessary to ensure the proper installation, inspection, maintenance and if necessary repair of the service connections and the equipment included in them; and

WHEREAS, the Governing Body finds and declares that connection to the Wastewater Utility System by potential customers in the area where the wastewater service is available should be achieved within a reasonable period of time; and

WHEREAS, to the extent reasonably feasible the continuing costs of operating and maintaining the Wastewater System should be covered by those who utilize the Wastewater Utility System and those who benefit from it; and

WHEREAS, the Governing Body finds that it is necessary and appropriate to provide for penalties and for corrective action in the event of improper disposal of wastewater or in the event of damage to or improper use of the Wastewater Utility System, and

WHEREAS, the Governing Body further finds that, for the efficient and cost-effective implementation of the Wastewater Utility System as constructed, Ordinance No. 13-007 adopted on May 14, 2013 should be amended by repeal and by adoption of the provisions set forth herein.

NOW, THEREFORE, BE IT ORDAINED by the Governing Body of the Village of Corrales, New Mexico, that:

1. Ordinance No. 13-007, adopted May 14, 2013, is hereby **REPEALED**
2. The following material, comprising designated Sections 23-1 through 23-3, inclusive and designated Sections 23-26 through 23-35, inclusive, of the Code of Ordinances of the Village, is hereby adopted by and as an ordinance of the Village.

(Remainder of page intentionally left blank.)

Chapter 23

LIQUID WASTE MANAGEMENT

ARTICLE I. GENERAL PROVISIONS

Section 23-1. Purpose.

This Chapter 23, Liquid Waste Management, of the Code of Ordinances of the Village of Corrales is adopted to protect the health, safety and welfare of the citizens of the Village by providing for the reduction of public health hazards that may result from improper wastewater disposal, to provide minimum specifications for customer connections, to provide for the rules of usage establishing the responsibilities of the Village and the responsibilities of customers, and to provide for a schedule of reasonable fees and rates.

Section 23-2. Authority, jurisdiction and scope.

(a) *Authority.* The provisions of this chapter are adopted to protect the health, safety and general welfare of the citizens of the Village under the authority of Chapter 3, NMSA 1978, including but not limited to Sections 3-18-22, 3-18-25, and 3-26-1 through 3-26-3 thereof, and the general police powers of the Village.

(b) *Jurisdiction and scope.* This chapter shall govern the collection, transportation and disposal of liquid waste within the Corrales Road Commercial Area of the Village and other areas that may be served by the Village's wastewater utility system subsequent to the adoption of this ordinance.

Section 23-3. Definitions.

As used in this chapter, the following words, terms, phrases and abbreviations shall in all cases have the meaning indicated, unless the context clearly requires otherwise.

Advanced treatment system means a wastewater treatment system that removes a greater amount of contaminants than is accomplished through primary treatment, either by physical or chemical processes.

Albuquerque Bernalillo County Water Utility Authority ("ABCWUA") means the water utility authority created by 2003 N.M. Laws ch. 437, codified as Section 72-1-10, NMSA 1978, as amended and supplemented.

Applicant means any person or entity that requests to make a service connection to the Village's wastewater utility system.

Biological oxygen demand (“BOD”) means the quantity of oxygen utilized in the biochemical oxidation of organic matter by 40 CFR 136 or EPA accepted *Standard Methods* procedures in five (5) days at 20° C, expressed in milligrams per liter.

CFR means the Code of Federal Regulations.

Chemical oxygen demand (“COD”) means the oxygen-consuming capacity of organic and inorganic matter present in wastewater by 40 CFR 136 or EPA accepted *Standard Methods* procedures, expressed as milligrams per liter.

Commercial facility means a structure that is not a residential unit but which has sewage-producing fixtures such as sinks, baths, showers, toilets, urinals, dish- and clothes-washers or floor drains for receiving liquid waste. The term *commercial facility* includes but is not limited to industrial facilities, retail and wholesale stores, offices, schools, government buildings, churches, synagogues and all other non-residential units generating wastewater.

Connection fee means a non-refundable fee charged by the Village to an applicant as a condition for connection or reconnection of the applicant’s wastewater system to the Village’s wastewater utility system.

Corrales Road Commercial Area means, in general, all lots contiguous to Corrales Road having frontage on Corrales Road and located on the east side of Corrales Road between East Meadowlark Lane on the south and Wagner Lane on the north, and on the west side of Corrales Road between West Meadowlark Lane on the south and Old Church Road on the north; and shall also include the lots south of and immediately adjacent to Meadowlark Lane on each side of Corrales Road. The specific definition may be found in Chapter 18, Article II, Section 18-37. C (2)a of the Village Code.

Customer means any person or entity that has made a connection to the wastewater utility system or otherwise receives service from the wastewater utility system.

Developed, in connection with real property, refers to any parcel of real property on which is located any residential unit or commercial facility.

Environmental Protection Agency (“EPA”) means the Environmental Protection Agency of the United States.

GPD or *gpd* means gallons per day.

Large-volume commercial facility means a commercial facility having a liquid waste design flow rate, or an actual mean liquid waste discharge, exceeding 600 gallons per day.

Leach field means a subsurface system of perforated pipes or similar material by which wastewater from a septic tank is discharged into the soil or earth.

Liquid waste means wastewater in a dominantly liquid state.

Liquid waste design flow rate means the design flow rate of a residential unit or commercial facility determined in accordance with Subsection 23-31(c)(2), or in accordance with Section 20.7.3.201.P, NMAC, as amended and supplemented.

New Mexico Environment Department (“NMED”) means the department of environment of the State of New Mexico established by the Environmental Improvement Act (Chapter 74, Article 1, NMSA 1978).

NH₃-N means the concentration of ammoniacal nitrogen in wastewater, measured in milligrams per liter.

NMAC means the New Mexico Administrative Code.

NMSA 1978 means the New Mexico Statutes Annotated, 1978 edition.

pH means the logarithm to the base ten of the reciprocal of the hydrogen ion activity in solution.

Primary service area means the Corrales Road Commercial Area.

Primary treatment means a liquid waste treatment process that takes place in a treatment unit such as a septic tank and allows those substances in wastewater that readily settle or float to be separated from the water being treated.

Private wastewater disposal system means a privately owned septic system or other wastewater disposal system not connected to the wastewater system or to any other wastewater collection system conveying the wastewater to a POTW.

Publicly operated treatment works (“POTW”) means a wastewater treatment plant owned by a governmental agency and, in particular, the wastewater treatment plant owned and operated by the ABCWUA.

Residential unit means a structure that is primarily used for living quarters and does not contain commercial facilities.

Septic system means a wastewater treatment and disposal system including a septic tank as its primary treatment unit and a leach field or equivalent means for disposal of the septic tank effluent.

Septic tank means a liquid waste treatment unit designed to provide primary treatment and anaerobic treatment prior to disposal of wastewater.

Service availability date means the date when construction and testing of the wastewater utility system within the primary service area are completed and the wastewater utility system within the primary service area is ready for installation of individual service connections.

Service connection or *individual service connection* means the piping and equipment necessary to connect the Customer's wastewater discharge from the building or buildings on a customer's property to the Village's wastewater utility system.

Small-volume commercial facility means a commercial facility having neither a liquid waste design flow rate nor an actual mean liquid waste discharge exceeding 600 gallons per day.

Standard Methods means the laboratory procedures set forth in the latest EPA-approved edition, at the time of analysis, of *Standard Methods for the Examination of Water and Wastewater*, as prepared, approved and published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation.

STEP pump means a submersible pump designed for septic tank effluent pumping, a process which consists of forcing the liquid waste effluent from an individual wastewater system that includes a septic tank into the wastewater system and providing pressure to assist in the transport of the liquid waste effluent through the wastewater system.

Village means the Village of Corrales, New Mexico.

Wastewater means waste from liquid flushing toilets, urinals, kitchen sinks, dishwashers, clothes washing machines, laundry tubs, bathtubs, showers, washbasins, and any other industrial, commercial or residential source of liquid requiring disposal, but does not include solid and semi-solid materials conveyed therewith and does not include roof drainage or mine or mill tailings.

Wastewater Utility System means the wastewater collection and transmission system of the Village.

Sections 23-4 to 23-25 Reserved.

ARTICLE II. WASTEWATER SERVICE

Section 23-26. Wastewater utility system.

(a) *Establishment.* The Village wastewater utility system is established for the purpose of protecting the health, safety and welfare of the residents and property owners of the Village and to protect the quality of the water supply for the Village and its residents and property owners.

(b) *Nature of wastewater utility service.* The Village wastewater utility system is a pressure system, capable of accepting and transporting liquid waste, not including solid or semi-solid materials.

(c) *Primary service area.* Wastewater utility service shall be available to properties within the Corrales Road Commercial Area. Wastewater utility service will also be made available, to the extent of capacity, in other areas where a wastewater utility collection or transmission line is located within three hundred (300) feet of the property where service is requested and a connection point exists to provide such service.

(d) *Responsibility.* Management, operation and maintenance of the Village's wastewater system shall be the responsibility of the public works department, subject to the supervision and control of the Village Administrator and the Mayor. Responsibility for accounting and the billing and collection of wastewater connection fees, user fees and other charges shall be as determined by the Village Administrator with the approval of the Mayor.

Section 23-27. Wastewater service availability; optional and mandatory connection.

(a) *Corrales Road Commercial Area.* Upon completion and testing of the wastewater utility system and completion of all other actions necessary to make the wastewater utility system ready for service, the Village administration will determine and publicize the service availability date. The Village will also notify individual property owners within the Corrales Road Commercial Area of the service availability date and of the opportunity for property owners to connect to the wastewater utility system.

(b) *Other areas.* Upon completion and testing of the wastewater utility system and completion of all other actions necessary to make the wastewater utility system ready for service, the Village administration will notify the owners of property within three hundred (300) feet for possible connection to the wastewater utility system, should they wish to, even if not located within the Corrales Road Commercial Area.

(c) *Opportunity for wastewater utility connection.* The owner of each lot or parcel of real property within the Corrales Road Commercial Area may apply for connection to the wastewater utility system at any time after the service availability date, and must do so within a reasonable period of time as specifically provided in this chapter.

(d) *Mandatory wastewater connection.* The owner of a lot or parcel of real property within the Corrales Road Commercial Area shall apply for connection to the wastewater utility system if wastewater is generated on the lot or parcel, within a reasonable period of time. Items that trigger a requirement for immediate application and connection include:

- (1) It is determined by the NMED or other competent authority that the existing wastewater treatment and disposal system on the property is inadequate and constitutes an immediate threat to public health, safety or the environment;
- (2) The owner submits a building permit application or site development plan proposing to erect a new structure or proposing a modified use of the property; or
- (3) The property is sold or otherwise transferred to a new owner; provided, however, that this provision shall not apply to the transfer of property to a new owner in

probate by the will of a decedent, by transfer on death deed, or by a proceeding in intestacy.

(e) *Notification of purchasers.* Any person selling or otherwise transferring ownership of real property within the Corrales Road Commercial Area shall disclose to the purchaser or transferee the fact that the property is within the area served by the wastewater utility system and of the requirements of this ordinance, whether or not the property is connected to the wastewater utility system at the time of sale or transfer.

Section 23-28. Service connections.

(a) *Connection points.* Every wastewater utility system service connection shall be made to an installed service connection point designated by the Village.

(b) *Application for service.* Each applicant for wastewater utility service shall submit to the Village an application for such service which shall include:

- (1) The applicant's name, service address, mailing address, telephone number and e-mail address, if available;
- (2) The nature of the commercial facility or residential unit to be served and the number of fixture units or the anticipated discharge volume from the commercial facility or residential unit, if known;
- (3) A design drawing or drawings showing the proposed service connection, including all piping, STEP pump and pump basin, septic tank and other process tanks, grease traps and sediment traps if any, control panels, and other fixtures and installations for the service connection;
- (4) Either (i) documentation of an existing septic tank that is licensed by NMED and in full compliance with NMED regulations at the time of the application, or (ii) design drawings and specifications for a planned septic tank to be installed by applicant, at applicant's expense, in conjunction with the installation and construction of the service connection;
- (5) A brief narrative statement of the applicant's operations and maintenance plan for the septic tank and service connection; and
- (6) Any other information applicant wishes to provide to assist in the Village's review of the application.

The application shall be accompanied by full payment of the appropriate connection fee.

(c) *Village review and approval.* The Village shall promptly notify the applicant if the application for service is incomplete or if additional information is needed for review of the application. The Village will promptly review the completed application for service and

accompanying documents, and will approve or disapprove the proposed service connection. If the proposed service connection is disapproved, the Village shall state the specific deficiencies resulting in disapproval and provide guidance for correcting the deficiencies. The applicant may then submit an amended application or amended materials in support of the application, without payment of an additional fee. Approval of the proposed service connection by the Village does not constitute approval of plans or approval for construction under the Village's building code or under regulations of the State of New Mexico. It is the responsibility of the applicant to obtain any necessary building permits, excavation permits and other permits including, if necessary, a permit from the New Mexico Department of Transportation for construction in the Corrales Road right of way.

(d) *Construction of service connection.* The applicant shall inform the Village at least three (3) days in advance of the date when construction will commence and of the date when connection to the wastewater utility system will be made at the sewer service connection point. Connection of the service connection at the sewer service connection point shall be subject to inspection and approval by the Village, and shall not be covered up or concealed until the inspection has been completed.

(e) *STEP pumps supplied by Village.* The Village on the date of adoption of this Section has in stock a limited number of STEP pumps and pump basins acquired with EPA funding. To the extent available, the Village will make these STEP pumps and pump basins available at a reduced cost for applicants wishing to use them in making their service connections. After the units in stock are exhausted, further STEP pumps and pump basins acquired through the Village, if any, will be made available at the Village's full cost.

(f) *Sand traps and grease traps.* Sand traps or grease traps may be required for schools, restaurants, and certain other commercial or public buildings to prevent accumulated grease, oil, sand or mud from collecting in the STEP pump basin and from being transmitted into the wastewater utility system. The Village will evaluate the need for sand traps or grease traps on a case-by-case basis and notify the applicant or customer if they are required. Where required, the Village shall have authority to inspect sand traps and grease traps at appropriate times during regular business hours and in the event of an emergency, to ensure that they are correctly installed and operating properly.

(g) *Disconnection of existing leach field or other on-site disposal facility.* Where the service connection to the wastewater utility system replaces an existing septic system with a leach field and the septic tank remains in place, the leach field shall be disconnected from the septic tank and the pipe to the leach field shall be capped when connection to the wastewater system is completed. The customer or contractor shall provide written notice to the Village and NMED that the leach field is disconnected and the pipe is capped. If the service connection includes replacement of an existing septic tank, the septic tank shall be removed or closed in place. If the connection to the wastewater utility system replaces any other type of on-site disposal system, such as an advanced treatment system or a constructed wetland disposal facility, such on-site disposal system shall be disconnected in an appropriate manner within thirty (30) days after connection to the wastewater system is completed, and written notice shall be provided to the Village and NMED.

Section 23-29. Continuing responsibilities.

(a) *Customer's continuing responsibilities.* Following installation of the service connection and during all periods that wastewater utility service is provided, the customer has a continuing responsibility to ensure that property conditions remain suitable for operation, maintenance, and if necessary repair of the service connection. Specific customer responsibilities include:

- (1) Operation and maintenance of the service connection, including the STEP pump unit, control panel, and all wastewater lines on the Customer's property, both pressurized and unpressurized;
- (2) Monitoring the unit's alarm device and responding appropriately to any alarms;
- (3) Pumping the septic tank with sufficient frequency to avoid the excessive accumulation of solids and semi-solids with the potential for overflow to the STEP pump and possible introduction into the wastewater utility system;
- (4) Maintaining and as necessary cleaning any sand or grease traps to ensure that damaging materials are not introduced into the wastewater utility system; and
- (5) Timely payment of all amounts owed to the Village for wastewater utility service.

(b) *Village's continuing responsibilities.* The Village shall have the continuing responsibility to provide for the operation and maintenance of the wastewater utility system.

(c) *Tampering prohibited.* Tampering with or altering a wastewater service connection without the permission of the customer is prohibited.

(d) *Customer obligation to provide electric power.* The customer shall provide continuous and uninterrupted electrical power for operation of the STEP pump and any appurtenances, except only for electrical service outages, failures beyond customer's control, and extended vacancy of premises for more than thirty (30) days.

Section 23-30. Prohibited discharges and activities.

(a) *Prohibited pollutants.* No person shall discharge or permit the discharge into the wastewater utility system of any of the following pollutants which acting alone or in conjunction with other substances present in the wastewater could interfere with the operation of the POTW:

- (1) Pollutants which could create a fire or explosion hazard in the POTW, including but not limited to waste streams with a closed-cup flashpoint of less than 140° F (60° C) using the test methods specified in 40 CFR 261.21;
- (2) Pollutants which could cause corrosive structural damage to the POTW, but in no case discharges with a pH lower than 5.0 or higher than 11.5;

- (3) Solid or viscous pollutants of any sort, including grease, wax or similar materials which could clog the STEP wastewater lines;
- (4) Any pollutant which could cause interference in the POTW or individual unit operations of the POTW, including oxygen demand pollutants (BOD, COD, NH₃-N and like materials) released in a discharge at a flow rate or concentration which could cause interference in the POTW or individual unit operations;
- (5) Heat in amounts which will inhibit biological activity in the POTW resulting in interference, but in no case heat in such quantities that the temperature at the POTW influent exceeds 104° F (40° C) or the temperature of the discharge into the wastewater utility system exceeds 140° F (60° C);
- (6) Petroleum oil, cutting oil, or products of mineral oil origin, in any amount;
- (7) Pollutants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause worker health or safety problems, as determined by ABCWUA;
- (8) Trucked or hauled pollutants of any sort or in any quantity;
- (9) Noxious or malodorous liquids, gases or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance or a hazard to life, safety or health, or the pollution of waters receiving discharge from the POTW;
- (10) Wastewater which imparts color which cannot be removed by the treatment process such as, but not limited to, dye wastes and vegetable tanning solutions;
- (11) Storm water, surface water, ground water, roof runoff, subsurface drainage, swimming pool drainage, condensate, deionized water, and noncontact cooling water, unless specifically authorized by ABCWUA and the Village;
- (12) Sludges, screenings or other residues from the pretreatment of industrial waste;
- (13) Medical wastes;
- (14) Wastewater which, alone or in conjunction with other sources, could cause the POTW's effluent to fail a NPDES toxicity test;
- (15) Detergents, surface-active agents, or similar substances in quantities which could cause excessive foaming in the wastewater utility system or the POTW;
- (16) Fats, oils or greases of animal or vegetable origin;
- (17) Persistent pesticides or herbicides, such as but not limited to dieldrin, aldrin, chlordane, endrin, heptachlor, toxaphene, lindane, dioxin, benzene hexachloride (BHC) and polychlorinated biphenyls (PCBs), or any other toxic refractory organic chemicals;
- (18) Radioactive waste of any sort;
- (19) Dental amalgam; or
- (20) Any pollutant which would result in a violation of any statute, rule, regulation or ordinance of the Village, ABCWUA or any public agency, including discharges prohibited by EPA.

(b) *Pollutant concentration limitations.* No person shall discharge or permit the discharge into the wastewater utility system of any of the following pollutants at a concentration in excess of that set forth in the table below or any different concentration of such pollutant that may be established by ABCWUA's Sewer Use and Wastewater Control Ordinance on or after the adoption of this Section 23-30:

Pollutant	Daily max. composite sample concentration limit (mg/l)	Applicability
Aluminum	900	Contributory discharges above background of 1.3 mg/l
Arsenic	0.051	Contributory discharges above background of 0.0107 mg/l
Benzene	0.05	All discharges
Cadmium	0.05	Contributory discharges above background of 0.01 mg/l
Chromium, total	4.1	All discharges
Copper	5.3	Contributory discharges above background of 0.063 mg/l
Cyanide	0.1	Contributory discharges above background of 0.010 mg/l
Fluoride	10.8	All discharges
Formaldehyde	100	All discharges
Lead	1.0	Contributory discharges above background of 0.01 mg/l
Mercury	0.0007	All discharges
Molybdenum	2.0	Contributory discharges above background of 0.025 mg/l
Nickel	2.0	Contributory discharges above background of 0.015 mg/l
Selenium	0.14	Contributory discharges above background of 0.002 mg/l
Silver	0.8	Contributory discharges above background of 0.076 mg/l
Zinc	2.2	All discharges
Phenolic compounds	2.0	All discharges
Total toxic organic	3.2	All discharges
BTEX *	0.75	All discharges

* Total benzene, toluene, ethylbenzene and xylenes.

(c) *Applicability of ABCWUA limitations.* In addition to the foregoing restrictions, limitations and prohibitions, discharges of wastewater to the wastewater utility system shall comply with all applicable regulations and limitations contained in the most recent sewer use and wastewater control ordinance of ABCWUA, as amended and supplemented. In the event of an inconsistency between the standards set forth in this Section and those contained in the ABCWUA wastewater control ordinance, the more restrictive provision shall apply.

(d) *Damage to wastewater utility system.* It shall be unlawful for any person to remove or damage any part of the wastewater utility system. No person shall excavate in any public right of way within the Village without first obtaining an excavation permit from the Village or other authority having control over the right of way, and all excavation shall be in accordance with the terms of the permit. In the event that any person causes damage to the wastewater utility system by excavation within the Village, such person shall be liable to the Village for all costs incurred by the Village to repair, restore or replace the damaged portion of the wastewater utility system. If the damage results from excavation without a required permit,

the person causing the damage shall be liable to the Village for a further penalty in the amount of one thousand dollars (\$1,000), which shall be in addition to any penalty or fee imposed under Chapter 31 (Sections 31-1 through 31-8, inclusive). The Village reserves the right to seek additional or alternative civil penalties in the event of damage to the wastewater utility system or any portion thereof, either within or outside of the Village, and regardless whether the person causing the damage obtained an excavation permit from any authority.

Section 23-31. Rates, fees and charges for wastewater service.

(a) *Imposition of fees and charges.* The Village shall impose reasonable and appropriate rates, fees and charges for wastewater utility system service to customers. The amount of the rates, fees and charges shall be established and may be amended periodically by resolution of the governing body. Rates, fees and charges for each class of customer shall be set at just and equitable rates, sufficient in the aggregate to meet the Village's costs of operating and maintaining the wastewater utility system to the maximum extent possible. To provide adequate funds for operation of the wastewater utility system if rates, fees and charges are insufficient, the governing body may by resolution specifically provide funding for operation and maintenance of the wastewater utility system from other available sources of funds.

(b) *Customer classes.* Rates, fees and charges shall be determined based on three classes of customers:

- (1) Residential units. Where a single service connection serves multiple residential units, rates, fees and charges shall be based on the actual number of residential units served.
- (2) Small-volume commercial facilities.
- (3) Large-volume commercial facilities.

Where a single service connection serves multiple commercial facilities in common ownership, the owner may elect to have each commercial facility treated as a separate entity for billing purposes, or may elect to have all of them treated collectively as a single entity. The election shall be made at the time of application for service, and shall be irrevocable for a period of one (1) year thereafter. After the expiration of the initial one (1) year period, the owner may at his or her discretion seek to amend the election, subject to Village approval; provided, however, that if an owner initially elects to have multiple commercial facilities treated collectively as a single entity, and subsequently changes the election to treat them as separate entities, then the appropriate connection fee shall be required for each separate entity.

(c) *Regular fees and charges.* The following fees and charges shall apply:

- (1) *Connection fee.* The connection fee shall be paid when the customer makes application for wastewater utility service.

- (2) *Wastewater service charges.* Monthly charges for wastewater utility service shall be as established by resolution of the governing body, and will include both a monthly base charge and a commodity charge, which may be based on the liquid waste design flow rate for the facility served. Charges for new connections will commence upon completion of the service connection to the wastewater utility system. For large-volume commercial facilities, the liquid waste design flow rate shall be determined in accordance with the following table, as set forth in Section 20.7.3.201 NMAC, or with any revision, amendment or supplementation thereof subsequently adopted by NMED.

TYPE OF OCCUPANCY	GALLONS PER DAY
1. Airport, bus terminal, train station	20 per employee 5 per passenger
2. Beauty or barber shop	75 per service chair
3. Bowling alley (snack bar only)	75 per lane
4. Bed & breakfast	150 first bedroom 100 each additional bedroom
5. Camps:	
Campground with central comfort station	35 per person
With flush toilets, no showers	25 per person
Day camp (no meals served)	15 per person
Summer and seasonal	50 per person
6. Churches (sanctuary)	2 per seat
With kitchen waste	7 per seat
7. Dance hall	5 per person
8. Doctor or dentist office	250 per practitioner
Add	15 per employee
9. Factories (per 8-hour shift):	
No showers	25 per employee
With showers	35 per employee
Cafeteria, add	5 per employee

10. Food operations: Restaurant operating 16 hours or less per day Restaurant operating more than 16 hours per day Bar or cocktail lounge Per pool table or video game, add Carry out only, including caterers Add per 8-hour shift Food outlets only Add for deli Add for bakery Add for meat department Add per public restroom	40 per seat 60 per seat 20 per seat 15 each 50 per 100 sq. ft. floor space 20 per employee 10 per 100 sq. ft. floor space 40 per 100 sq. ft. floor space 40 per 100 sq. ft. floor space 75 per 100 sq. ft. floor space 200
11. Hotels, motels, lodges (Laundries, lounges and restaurants calculated separately)	60 per bed
12. Institutions (resident) Nursing homes Rest homes	75 per person 125 per person 125 per person
13. Laundries Self-service (minimum 10 hours/day) Commercial	50 per wash cycle Per manufacturer's specifications
14. Offices	20 per employee per 8-hour Shift
15. Parks: Picnic park – toilets only	20 per parking space
16. Recreation vehicles (RV) park: Without water hookup With water and sewage hookup RV dump station	75 per space 100 per space 50 per RV
17. Schools – Staff and office Elementary and day care Intermediate and high Boarding, total waste Gym and showers, add With cafeteria, add	20 per person 15 per student 20 per student 100 per person 5 per student 3 per student
18. Service station or convenience store Uni-sex restrooms	400 per toilet 800 per toilet
19. Stores Public restrooms	20 per employee 10 per 100 sq. ft. floor space
20. Swimming and bathing places, including public spas and hot tubs, public	10 per person

21. Theaters, auditoriums	5 per seat
Drive-ins	10 per space
22. Veterinary clinic	250 per practitioner
Add	15 per employee
Add	20 per kennel, stall or cage

As an alternative to the commodity charge based on the liquid waste design flow rate as set forth in the foregoing table, the owner or operator of a large-volume commercial facility may request that the Village permit installation of a totalizing flow meter on the wastewater service connection between the STEP pump and the connection to the wastewater utility system, which totalizing meter will be acquired and installed entirely at the customer's expense. The make and model of the flow meter and the design of the installation shall be approved by the Village prior to installation. After installation, the Village will cause the flow meter to be read monthly, and the commodity charge shall be based on meter readings so long as the meter is fully functional and operating properly. Flow meter readings shall not be used as a basis to change the rate class or monthly base charge, which shall in all cases be based on the liquid waste design flow rate, but may qualify the customer for a lower commodity charge based on the measured wastewater volume. Necessary service, maintenance, repair and, if necessary, replacement of the flow meter shall be the responsibility of the customer.

(d) *Special fees and charges.* The Village may assess special charges to a customer for any out of pocket costs the Village incurs beyond the normal costs of providing service to other customers similarly situated. Special charges shall be made for, but are not limited to the following situations:

- (1) Costs associated with sampling, analyzing and evaluating the customer's waste water and the effect of such waste water on the wastewater utility system when such waste water is found to contain prohibited pollutants, and thereafter for verification of compliance with this chapter as the Village deems appropriate.
- (2) Costs associated with repairing or replacing components of the wastewater utility system that are damaged or destroyed by the actions of the customer or by any of customer's wastewater discharged to the wastewater system.
- (3) Costs beyond routine inspections associated with verifying compliance with the inspection, pumping and maintenance requirements for septic tanks, grease traps, sand traps and wastewater utility service connections as set forth in this chapter.
- (4) Costs incurred for emergency correction or repair of a customer-installed wastewater service connection.
- (5) Any other costs incurred to enforce the provisions of this chapter, including legal costs and attorney fees.

Section 23-32. Responsibility for payment of rates and charges.

(a) *Responsibility for payment.* Payment of all rates, fees and charges for wastewater utility service is the responsibility of the owner of the property served, notwithstanding any statement to the contrary in any lease, tenancy or land use agreement. Rates, fees and charges for wastewater utility service shall, until fully paid, be a lien upon the property served.

(b) *Billing.* Wastewater utility service fees and charges shall be determined and bills for services shall be based on a monthly billing period, which shall not necessarily be a calendar month. Monthly fees and charges shall be due without prorating for any portion of a month or monthly billing period during which service was provided. Bills will be sent monthly as soon as reasonably feasible after the end of the billing period.

(c) *Payments due; delinquencies and arrears.* Bills for wastewater utility services are due and payable upon receipt. Any bill not paid within thirty (30) calendar days after it is sent shall be deemed delinquent and shall be subject to interest at the rate of twelve percent (12%) per annum, compounded monthly. Interest shall be imposed upon all payments in arrears, whether for wastewater service charges, connection fees, construction and installation charges, or any other charges or fees due on the account.

(d) *Arrearages and settlement agreements.* In the event that a property owner falls significantly into arrears on amounts due to the Village for wastewater utility services, the Village administrator is authorized to develop and enter into a reasonable settlement agreement providing for payment of all amounts in arrears (in addition to current charges) over a reasonable period of time, not to exceed two (2) years. Whether or not a settlement agreement is entered into by the property owner, all rates and fees for wastewater service, including interest on overdue charges, shall until paid be a lien on the real property served, which if the property owner willfully fails to pay them may be enforced by the Village in accordance with Section 3-26-2 and Sections 3-36-1 through 3-36-7, inclusive, NMSA 1978.

(e) *Change of ownership.* Upon the sale or transfer of any property served by the Village's wastewater utility system, it is the responsibility of the owner leaving the premises to notify the Village and provide appropriate documentation of the change in ownership. It is the responsibility of the incoming owner to submit a request for service to the Village no later than five (5) days after taking possession of the property. Failure to provide timely notification shall be a violation of this chapter, punishable in accordance with Section 23-35. Upon receipt of a request for service by the new owner, the Village will thereupon direct any future bills to the new owner. Any unpaid fees or charges and any interest due thereon shall not be abated by change of ownership, and shall be the responsibility of the incoming owner. It is the responsibility of the purchaser of the property to make due inquiry whether any charges are outstanding for service to the property, and the Village shall have no liability for any failure to make such inquiry.

(f) *Temporary discontinuance of service charge for unoccupied and closed unit.* If a residential unit or commercial facility has been entirely unoccupied for a period of more than one (1) month, and is reasonably expected to be entirely unoccupied for a continuous period totaling at least three (3) months, the owner may apply for abatement of the commodity charge during the

period that the residential unit or commercial facility is unoccupied. The Village shall inspect the premises, or cause the inspection of the premises, to ensure that the premises are actually unoccupied during the period of abatement. The monthly base charge shall not be abated, and shall be due and payable monthly notwithstanding the fact that the residential unit or commercial facility may be unoccupied.

Section 23-33. Termination of service; reconnection.

(a) *Termination of service to developed property prohibited.* Wastewater utility service shall not be terminated to any developed property after a service connection has been made to any building or structure on the property.

(b) *Termination of service if property is no longer developed.* In the event that all buildings or structures for which wastewater utility service would be needed are permanently destroyed, abandoned or removed from a property, then upon notice to the Village by the property owner, or upon the determination of the Village without notice, wastewater utility service to the property may be terminated and the Village or the property owner may disconnect the service connection. Any unpaid fees or charges and any interest due thereon shall remain due and payable and shall be a lien on the property, notwithstanding termination of service.

(c) *Reconnection of service; reconnection fee.* In the event that service to a property has been terminated and an applicant then seeks wastewater utility service to the property for new development or facilities thereon, renewed service to the property will be provided upon application and payment of a reconnection fee in an amount equal to the connection fee in effect at the time of application. The applicant seeking reconnection shall comply with all requirements applicable for an initial connection to the wastewater utility system, notwithstanding the prior service connection to the property.

Section 23-34. Determination of disputes; appeals.

(a) *Determination of disputes.* In the event that there is any question or dispute regarding the interpretation of anything contained in this chapter, the determination of such dispute shall be made in the first instance by the Village administrator. Upon the request of any interested person, the Village administrator shall make such determination in writing, stating the reasons therefor.

(b) *Right of appeal.* Any person aggrieved by a decision of the Village administrator may seek review of the decision by the Mayor. The decision of the Mayor shall be the final executive determination of the matter. Any interested person aggrieved by a decision of the Mayor in connection with any matter relating to the wastewater utility system may appeal to the governing body by submitting a notice of appeal to the Village clerk, together with the applicable filing fee, within twenty (20) days following the date of the decision. The notice of appeal shall set forth specifically wherein it is claimed that there was an error or an abuse of discretion, or wherein the decision appealed from was not supported by substantial evidence. A notice of appeal not timely filed or filed without payment of the applicable fee will not be considered.

(c) *Hearing.* An appeal duly filed shall be heard by the governing body at a time and place to be determined by the governing body. The appellant and any other interested party known to the Village will be notified of the date, time and place of the hearing at least five (5) days in advance. No public notice other than posting of the agenda will be required for the hearing. The matter will be heard by the governing body *de novo*.

(d) *Decision.* The governing body may reverse, amend, modify or affirm the decision appealed from. The decision of the governing body is the final decision of the Village on the matter appealed.

Section 23-35. Penalties for violation of ordinance; abatement of prohibited conditions.

(a) *Penalty for violation of ordinance.* Any person who violates any provision of this chapter shall, upon conviction, be punished in accordance with section 1-6. In the event that any violation continues or is repeated after notice by the Village, each day that the violation continues or is repeated shall be deemed a separate offense.

(b) *Additional remedies; abatement of prohibited conditions.* The availability of penalties in accordance with Subsection 23-35(a) shall not be construed to limit the authority of the Village to seek additional or other penalties, criminal or civil, or to undertake such actions as the Village deems appropriate and necessary to provide for the health, safety and welfare of the Village and its citizens. The Village may pursue any and all administrative or civil penalties available to it, including but not limited to an administrative order to require abatement of any condition that is injurious to the health, safety or general welfare of the public and to require compliance with any provision of the ordinances of the Village. In addition, the Village may pursue a civil action in any court of competent jurisdiction to require compliance with any federal, state or local law or ordinance or to require the abatement of unsafe, unsanitary, noxious or hazardous conditions.

(Remainder of page intentionally left blank.)

SEVERABILITY CLAUSE: Should any section, paragraph, clause or provision of this Ordinance be held to be invalid or unenforceable for any reason, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this Ordinance. The Governing Body of the Village of Corrales hereby declares that it would have passed this Ordinance and each section, subsection, sentence, clause, word or phrase thereof irrespective of any one or more sections, subsections, sentences, clauses, words or phrases being declared unconstitutional or otherwise invalid.

COMPILING CLAUSE: This Ordinance shall be incorporated in and compiled as a part of the Code of Ordinances of the Village of Corrales, as indicated in the Ordinance.


EFFECTIVE DATE AND PUBLICATION: This Ordinance shall become effective and be in full force and effect from and after its passage, publication and posting, according to law.

PASSED, APPROVED AND ADOPTED by the Governing Body of the Village of Corrales, New Mexico, this 26th day of August, 2014.

APPROVED:


The Honorable Scott Kominiak
Mayor

ATTEST:


Jennifer A. Hise
Village Clerk

Village of Corrales Wastewater Service Installation Specifications

Single service connection will utilize a SCH 80 PVC 2" to 1.25" Reducer installed at connection point {Village of Corrales Valve}

Contractor will install a 36" deep by 24" Valve Vault with cover as close as feasibly possible to connection point with 2- 1.25" True Union Gate Valves SCH 80 Hi-Impact PVC type II per ASTM D-1785, with polypropylene paddles, 200 PSI pressure rated heavy duty Gate Valves, or SCH 80 Hi-Impact True Union Type II PVC per ASTM D-1785 Ball Valves and a 1.25" True Union Check Valve SCH 40 Hi-Impact PVC type II ASTM D-1785 with a EPDM swing gate. Check Valve shall be centered between Gate Valves. Piping from Reducer at connection point to Valve Vault will utilize 1.25" SCH 80 PVC pipe @ 3 Foot Minimum Cover.

If Valve Vault is to be located in Traffic areas an approved Traffic rated Vault and Cover must be installed.

Piping from Valve Vault to the Flex Connection @ the Effluent discharge shall be 1.25" SCH 80 PVC or SDR 7 HDPE pipe with 3- foot Minimum cover. If rock is encountered pipe shall be bedded with an approved material 6" below and 12" above and 6" either side of the pipe. If SDR 7 is used appropriate adapters must be used.

Warning Tape and Tracer wire is required from the STEP system to the service connection. The warning tape shall be 4" wide, green in color with either "Non Potable Water" or "Sewer Line" and shall be installed 18" above service line. Tracer wire shall be 10-gauge solid wire coated and will be secured to pipe, one end will be exposed at the STEP system and the other end will be placed inside the valve box.

Connection to effluent discharge from 1.25" service line will be a 1.25" X 1" SCH 80 Reducer.

*Pump system installed shall be an Orenco Unit {PF100511 PF series 4"
Submersible Effluent pump, PB2572COV+S+12 Pump Basin. FL24G12-4B
Fiberglass Gasketed Lid with Stainless Steel Bolts, PVU57-1819 Universal Biotube
Pump Vault, HV125BCPR Discharge Assembly, SB4 Splice Box, Level Control*

Assembly, Float Stem Holders, External Flex Connection, and BioTube Filter Cartridge. An equivalent unit may be used upon approval.

In high ground water installations an anti-flotation base extending 6" beyond pump basin and 6" deeper than pump basin +6" of bedding material must be used.

Contractor shall connect The Orenco Unit to the Septic Tank Outlet Pipe with a Cleanout Assembly consisting of a 4" PVC Sanitary Tee, 4" SCH 40 PVC Pipe and 4" SCH 40 PVC cap terminated 2" above ground level.

The Contractor will retrofit the tank outlet pipe and install an Effluent Filter.

Electrical shall consist of 3/4" Electrical Conduit & 10 AWG from Pump to Control Panel and 12 AWG from floats to Control panel {See Orenco Wiring Diagram Model S1} and 10 AWG in 3/4" Electrical Conduit from Control Panel to House Electrical Panel. All electrical shall conform to all local Codes, Specifications and permitting.

Existing Septic Tanks must be pumped out and inspected before any installation of Pump System or piping from connection point will be allowed. All Septic Inspections must be performed by a qualified inspector. Inspector must be a Professional Engineer, NAWT Certified inspector or Licensed Contractor holding a Construction Industries Division License Classification MM-1, MM98, MS-1 or a MS-3.

New Septic tanks will be installed to Manufacture Specifications

PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM

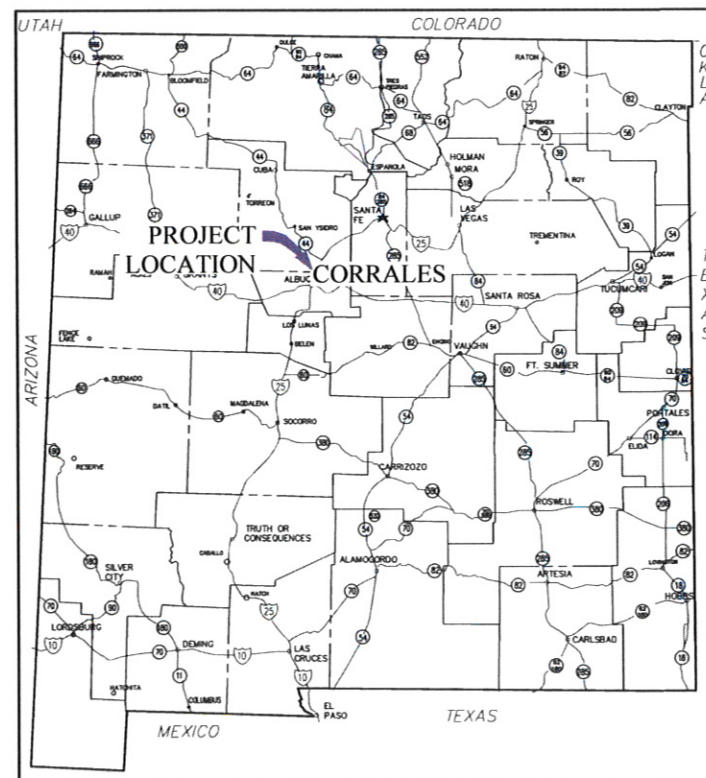
CORRALES, NEW MEXICO



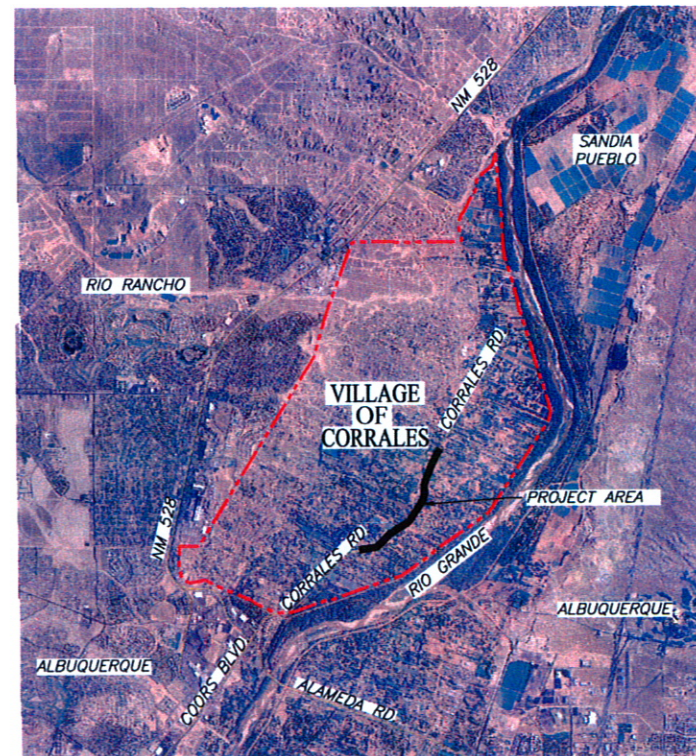
MAY 2009

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G-2	GENERAL NOTES & LEGEND
G-3	DESIGN CALCULATIONS
C-1	KEY MAP
C-2	SURVEY CONTROL POINTS
C-3	STEP SYSTEM PLAN & PROFILE STA. 0+00 TO STA. 5+60
C-4	STEP SYSTEM PLAN & PROFILE STA. 5+60 TO STA. 11+20
C-5	STEP SYSTEM PLAN & PROFILE STA. 11+20 TO STA. 16+80
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C-7	STEP SYSTEM PLAN & PROFILE STA. 22+40 TO STA. 28+00
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C-9	STEP SYSTEM PLAN & PROFILE STA. 33+60 TO STA. 39+20
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C-12	STEP SYSTEM PLAN & PROFILE STA. 50+40 TO STA. 56+00
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DT-1	MANHOLE DETAILS
DT-2	MISCELLANEOUS DETAILS
DT-3	VALVE DETAILS
DT-4	SERVICE CONNECTION DETAILS
TC-1	STANDARD NMDOT TRAFFIC CONTROL SIGN FACE DETAILS
TC-2	TRAFFIC CONTROL PLAN
TC-3	TRAFFIC CONTROL PLAN



LOCATION MAP
NOT TO SCALE



PROJECT AREA MAP
SCALE: 1" = 5000'

RECORD DRAWING:
THE INFORMATION CONTAINED ON THIS DRAWING WAS
COMPILED, IN PART, FROM INFORMATION SUPPLIED BY
OTHERS. SOUDER, MILLER & ASSOCIATES TAKES NO
RESPONSIBILITY FOR INFORMATION SUPPLIED BY OTHERS
AND MAKES NO REPRESENTATION TO ITS ACCURACY.

June 1 May 08/16/10
DATE

NOTICE OF
EXTENDED PAYMENT PROMSION:
THIS CONTRACT ALLOWS THE
OWNER TO MAKE PAYMENT
WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED
REQUEST FOR PAYMENT.

P:\CORRALES\WV\847709\BUL\INGAS-BUL\ING-3 DESIGN CALCULATIONS-REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: MLS, SEH
CHECKED BY: LTH
APPROVED BY: JAM



SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-298-0942
Albuquerque - Las Cruces
Santa Fe, NM - Cortez, CO - Monticello, UT

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AFTER SUBMISSION OF AN
UNDISPUTED REQUEST FOR
PAYMENT

COVER SHEET & PROJECT MAP
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is
incomplete and
not to be used
for construction
unless it is
stamped, signed
and dated

SHEET
G-1

GENERAL NOTES

1. THERE WILL BE A PERSON OR PERSONS (HEREINAFTER KNOWN AS THE OWNER'S REPRESENTATIVE) CHOSEN BY THE VILLAGE OF CORRALES (HEREINAFTER KNOWN AS THE OWNER) TO ACT AS A CONTACT PERSON BETWEEN THE OWNER AND THE ENGINEER. THE OWNER'S REPRESENTATIVE WILL OBSERVE, AND PROVIDE INFORMATION, AND PROVIDE CRITICAL LOCATIONS THROUGH THE ENGINEER TO THE CONTRACTOR IN THE FIELD.
2. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A RESIDENT INSPECTOR WHO WILL BE THE CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.
3. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
4. WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN OR IN THE PROJECT SPECIFICATIONS, THE CURRENT EDITION OF NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED.
5. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.
6. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE ENGINEER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES. ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICES ON VARIOUS BID ITEMS.
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) AWWA SPECS, AND NMED SPECS AND REGULATIONS UNLESS OTHERWISE NOTED.
9. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, UTILITY BORE PERMITS AND ANY OTHER, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE ENGINEER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE OWNER AND ENGINEER.
11. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPER OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING CONSTRUCTION.
12. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE EQUIPMENT IN THE CONSTRUCTION ZONE DURING NON-WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A STORAGE AREA(S) FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR SITE SECURITY.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 1-800-321-ALERT, AND ALL LOCAL UTILITY PROVIDERS THREE (3) DAYS BEFORE STARTING UTILITY CONSTRUCTION.
14. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP ANY EXISTING SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT ANY UTILITY SHUTOFFS OF ANY OR ALL CONNECTIONS TO THE OWNER'S REPRESENTATIVE TWENTY-FOUR (24), OR MORE, HOURS IN ADVANCE OF THE SHUT-OFFS. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION. NO DIRECT PAYMENT WILL BE MADE FOR WATER. ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
16. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCRoACH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
17. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK". FOR MORE INFORMATION CONTACT NGS MARK PRESERVATION CENTER, NOAA (505) 768-3606.

GENERAL NOTES

18. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR.
19. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
20. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.
21. AS REQUIRED, NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE OWNER'S APPROVAL. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL HAVE NO ADVERSE EFFECT UPON ADJACENT PROPERTIES OR PUBLIC ROADWAYS.
22. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. IN THE EVENT THAT 1 ACRE OF EARTH OR MORE ARE DISTURBED, THE CONTRACTOR SHALL SUBMIT TO THE OWNER'S PROJECT REPRESENTATIVE A STORM WATER POLLUTION PREVENTION PLAN THAT WILL ADDRESS ALL CONSTRUCTION PHASES AND THE PROPOSED POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES. THIS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENT FOR ALL CONSTRUCTION ACTIVITIES.
23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
24. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK, THE OWNER'S ENGINEER SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER COMPLETE AS-BUILT DRAWINGS.
25. THE CONTRACTOR WILL UPDATE "AS-BUILT DRAWINGS" FOR THE PROJECT AND DELIVER TWO (2) SETS OF THESE DRAWINGS WITH REDLINES TO THE ENGINEER UPON COMPLETION OF THE CONSTRUCTION.
26. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE ENGINEER, NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.
27. ANY UTILITIES FOR THIS PROJECT SHALL BE INSTALLED TO THE MINIMUM COVER AS SHOWN ON THE CONSTRUCTION DRAWINGS. THIS INCLUDES ANY CROSSING SERVICES OR LATERALS INSTALLED. EXCEPTIONS MUST BE AUTHORIZED BY THE ENGINEER.
28. ALL INSTALLED UTILITY MAINS, LATERALS, AND SERVICES SHALL BE MARKED WITH TRACER WIRE TAPED TO TOP OF PIPE AND DETECTABLE WARNING TAPE WHERE APPLICABLE AT LEAST EIGHTEEN (18) INCHES ABOVE BURIED PIPE, AS PER SPECIFICATIONS AND THESE DRAWINGS.
29. ALL INSTALLED OR OPENED WATERLINES & MATERIALS SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
30. ALL BEDDING MATERIAL SHALL BE GRANULAR AND FREE-DRAINING, HAVE A MAXIMUM GRAIN SIZE THAT DOES NOT EXCEED 3/8 INCH, AND BE ACCEPTABLE TO THE ENGINEER.
31. OVER-EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED, TO THE SATISFACTION OF THE ENGINEER THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.
32. PADDING AND BACK FILL MATERIAL, IF REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR PADDING AND BACK FILL MATERIAL OR HAUL. ALL PADDING AND BACK FILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE PADDING AND BACK FILL MATERIAL PIT IF MATERIAL IS REQUIRED TO COMPLETE THE PROJECT.
33. BACK FILL DENSITY TESTS SHALL BE PERFORMED HORIZONTALLY FOR EACH 1000 LINEAR FEET OF PIPELINE, OR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACK FILL. ADDITIONAL COMPACTION TESTS SHALL ALSO BE TAKEN EVERY 3 VERTICAL FEET OF BACK FILL.
34. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER AND ENGINEER.
35. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
36. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. THE DISPOSAL SITE FOR EXCESS MATERIAL MUST BE APPROVED BY THE PROJECT MANAGER AND ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE A DISPOSAL SITE FOR NON-USABLE MATERIALS (E.G. BRUSH, CONCRETE), ACCORDING TO THE NMED. WASTE PAYEMENT AND CONCRETE ARE NOT CONSIDERED REGULATED WASTE AND CAN BE DISPOSED OF FOR USE AS FILL OR EROSION CONTROL IF A SITE CAN BE LOCATED. ALL OTHER WASTE (E.G. TRASH, BRUSH, ETC.) SHALL BE DISPOSED OF AT AN APPROVED LANDFILL. ALL DISPOSAL SITES MUST BE APPROVED BY THE PROJECT MANAGER AND OWNER PRIOR TO DISPOSAL OF ANY WASTE.

ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION
C or CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
D.I.	DUCTILE IRON
DIA.	DIAMETER
E.G.	FOR EXAMPLE
EXIST.	EXISTING
FIG.	FIGURE
FL	FLANGE
FNPT	FEMALE NATIONAL PIPE THREAD
GALV.	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
I.D.	INNER DIAMETER
LF	LINEAR FEET
MAX.	MAXIMUM
mA	MILLIAMP (ONE THOUSANDTH OF AN AMP)
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
M.H.	MANHOLE
N.O.A.A.	NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION
NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
NTS	NOT TO SCALE
O.D.	OUTER DIAMETER
PE	POLYETHYLENE
psi	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SCH.	SCHEDULE
SPECS	SPECIFICATIONS
STD.	STANDARD

LEGEND

	EXISTING FENCE (WIRE, WOOD, ETC.)
	EXISTING CHAIN LINK FENCE
	EXISTING OVERHEAD ELECTRIC, W/ POLE & GUY WIRE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING UNDERGROUND TELEPHONE LINE W/ PEDESTAL OR MH
	EXISTING GAS LINE W/ METER
	EXISTING UNDERGROUND CABLE TV W/ PEDESTAL
	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WELL
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING MONITOR WELL
	EXISTING MAILBOX
	EXISTING ELECTRIC METER
	EXISTING SIGN
	SURVEY CONTROL POINT OR BENCHMARK
	NEW 2" HDPE PIPE
	NEW 3" HDPE PIPE (LATERALS)
	NEW 6" STEP LINE
	NEW HDPE CAP & STUB
	NEW BALL VALVE
	NEW AIR RELEASE VALVE
	NEW SEWER CLEANOUT
	SINGLE 11" SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	DOUBLE 11" SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	PAVED ROAD

PROJECT SPECIFIC NOTES

1. THE 6" STEP COLLECTION MAIN SHALL BE INSTALLED BY DIRECTIONAL DRILLING IN 500 FOOT MAXIMUM SEGMENTS. 6" HDPE "ROLL" PIPE SHALL BE USED.
2. THE 2" AND 3" COLLECTION SYSTEM LATERALS AND SERVICE CONNECTIONS SHALL BE INSTALLED BY OPEN TRENCH METHOD. STEEL CASING IS REQUIRED FOR ALL PIPING BENEATH CORRALES ROAD (STATE HIGHWAY 448).
3. HOURS OF CONSTRUCTION ARE LIMITED TO WEEKDAYS FROM 9:00 AM TO 3:30 PM AND 8:30 PM TO 5:30 AM PER THE NMDOT DISTRICT 3 TRAFFIC ENGINEER.
4. SINGLE LANE ACCESS MUST BE AVAILABLE AT ALL TIMES ON CORRALES ROAD (STATE HIGHWAY 448).
5. ACCESS IMPACTS TO ALL PROPERTIES AND ROADS INTERSECTING CORRALES ROAD (STATE HIGHWAY 448) SHALL BE MINIMIZED.

NOTICE OF EXTENDED PAYMENT PROVISION:
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AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



Know what's below.
Call before you dig.

P:\6 CORRALES HWY\84709\BUDGETING\AS-BUILT\FIG-3 DESIGN CALCULATIONS-REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: MLS, SBH
CHECKED BY: LTH
APPROVED BY: JAM



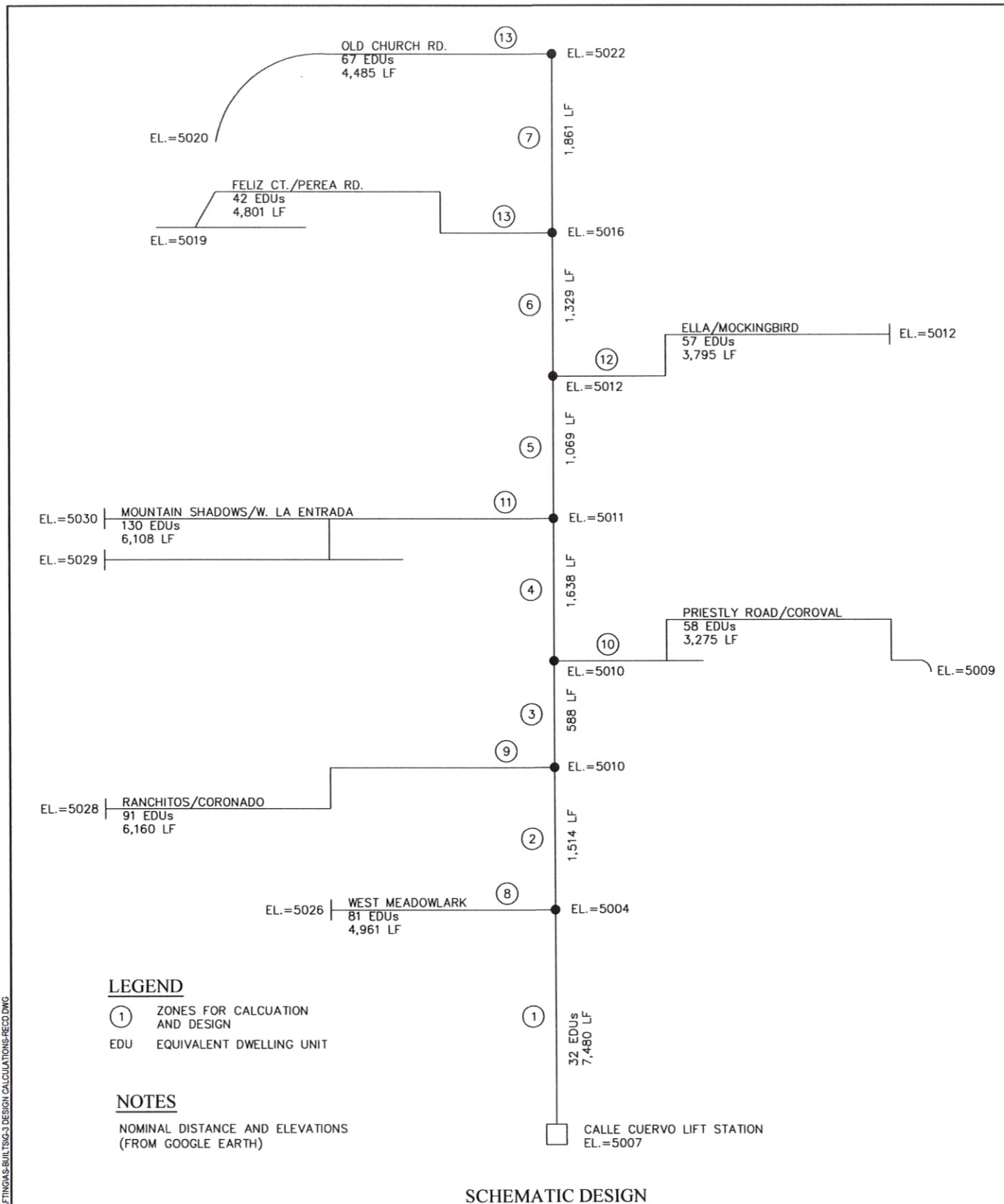
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GENERAL NOTES & LEGEND
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is
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and dated

SHEET
G-2



DESIGN CALCULATIONS

STEP SEWER COLLECTION MAIN and LATERAL DESIGN

Business Core WW Collection - Phases 1 & 2
Village of Corrales, NM
3/17/2009 JAM

Zone No.	Zone Description	EDUs	Cumulative EDUs	Zone Flow Q (gpm)	Cumulative Zone Flow Q (gpm)	Pipe Length (ft.)	Pipe O.D. (in.)	Pipe I.D. (in.)	Start Elev. (ft. MSL)	End Elev. (ft. MSL)	Slope (%)	Zone headloss (psi)	System headloss (psi)	V Zone (ft/s)
1	Calle de Cuervo - Meadowlark Lane	32	950	16	478	7,480	8.625	7.549	5007	5004	0.04%	19	47	3.43
2	Meadowlark Lane - Coronado	44	918	22	462	1,719	8.625	5.799	5004	5010	-0.35%	15	28	5.61
3	Coronado - Cordoval	6	880	3	354	588	8.625	5.799	5010	5010	0.00%	3	13	4.30
4	Cordoval - W. La Entrada	85	874	43	322	1,638	8.625	5.799	5010	5011	-0.06%	9	10	3.91
5	W. La Entrada - Ella/Mockingbird	58	789	29	214	1,069	8.625	5.799	5011	5012	-0.09%	3	1	2.60
6	Ella / Mockingbird - Perea	153	730	76	157	1,329	8.625	5.799	5012	5016	-0.30%	0	-2	1.90
7	Perea-Old Church	52	578	26	59	1,861	8.625	5.799	5016	5022	-0.32%	-2	-2	0.72
8	W. Meadowlark	81	526	41	41	4,961	3.500	3.064	5004	5026	-0.44%	3		1.76
9	Ranchitos/Coronado	91	445	46	46	6,160	3.500	3.064	5010	5028	-0.29%	10		1.98
10	Priestly/Coroval	58	354	29	29	3,275	2.375	2.079	5009	5007	0.06%	28		2.74
11	Mt. Shawdows / W. La Entrada	130	296	65	65	6,108	3.500	3.064	5008	5030	-0.36%	29		2.83
12	Ella / Mockingbird	57	166	29	29	3,795	2.375	2.079	5012	5012	0.00%	29		2.69
13	Felice / Perea	42	109	21	21	4,801	2.375	2.079	5016	5019	-0.06%	18		1.98
14	Old Church Rd - Mama Rd	67	67	34	34	4,485	3.500	3.064	5020	5022	-0.04%	7		1.46

Notes: 1) Qdesign: 0.5 gpm/EDU (Small and Decentralized Wastewater Management Systems, Crites & Tchobanoglous, 1998)
2) DR 17 (100 psi) HDPE Pipe

NMED Liquid Waste Average Flows					Total (gpd)	EDUs
Occupancy	gpd	Unit	No. Units			
Small office (OFF)	20	employee	10		200	1
Large office (LOFF)	20	employee	30		600	3
Restaurant	40	seat	100		4,000	20

NMED WW Discharge Permits					Peak (3)	
	gpd	gph	gpm			
Village Pizza	5,000	417	7	21	(12 hour day)	
Corrales Community Center	1,200	100	2	5	(12 hour day)	
Corrales Municipal Complex	2,080	173	3	9	(12 hour day)	
Corrales Elementary School	13,300	1,663	28	83	(8 hour day)	
Rancho de Corrales Restaurant	750	63	1	3	(12 hour day)	

EDU Calculations

EDUs		Small Off/ Residence	Large Office	Permitted Facility	Exist./Future Restaurant	Total gpd	EDUs
Zone No.		200	600	varies	4,000		
1	Meadowlark Lane to Calle de Cuervo	20	4			6,400	32
2	Meadowlark Lane to Coronado	4,000	2,400		1	8,800	44
3	Coronado to Cordoval	9	5		4,000	1,200	6
4	Coroval to W. La Entrada	6	8	2	2	17,000	85
5	W. La Entrada to Ella (Mockingbird)	1,200	1,600	6,200	8,000	11,680	58
6	Ella (Mockingbird) to Perea	10	6	2,080	4,000	30,500	153
7	Perea to Old Church	2,000	3,600	1	4	10,350	52
8	W. Meadowlark	6	4	13,300	16,000	16,200	81
9	Ranchitos/Coronado	13	5	750	4,000	18,200	91
10	Priestly/Coroval	2,600	3,000			11,600	58
11	Mt. Shawdows/W. La Entrada	81				26,000	130
12	Ella / Mockingbird	16,200				11,400	57
13	Felice / Perea	91				8,400	42
14	Old Church Rd to Mama Rd	58				13,400	67
						Total EDUs	956
						Total gpd	191,130

LEGEND
① ZONES FOR CALCULATION AND DESIGN
EDU EQUIVALENT DWELLING UNIT

NOTES
NOMINAL DISTANCE AND ELEVATIONS (FROM GOOGLE EARTH)

SCHEMATIC DESIGN

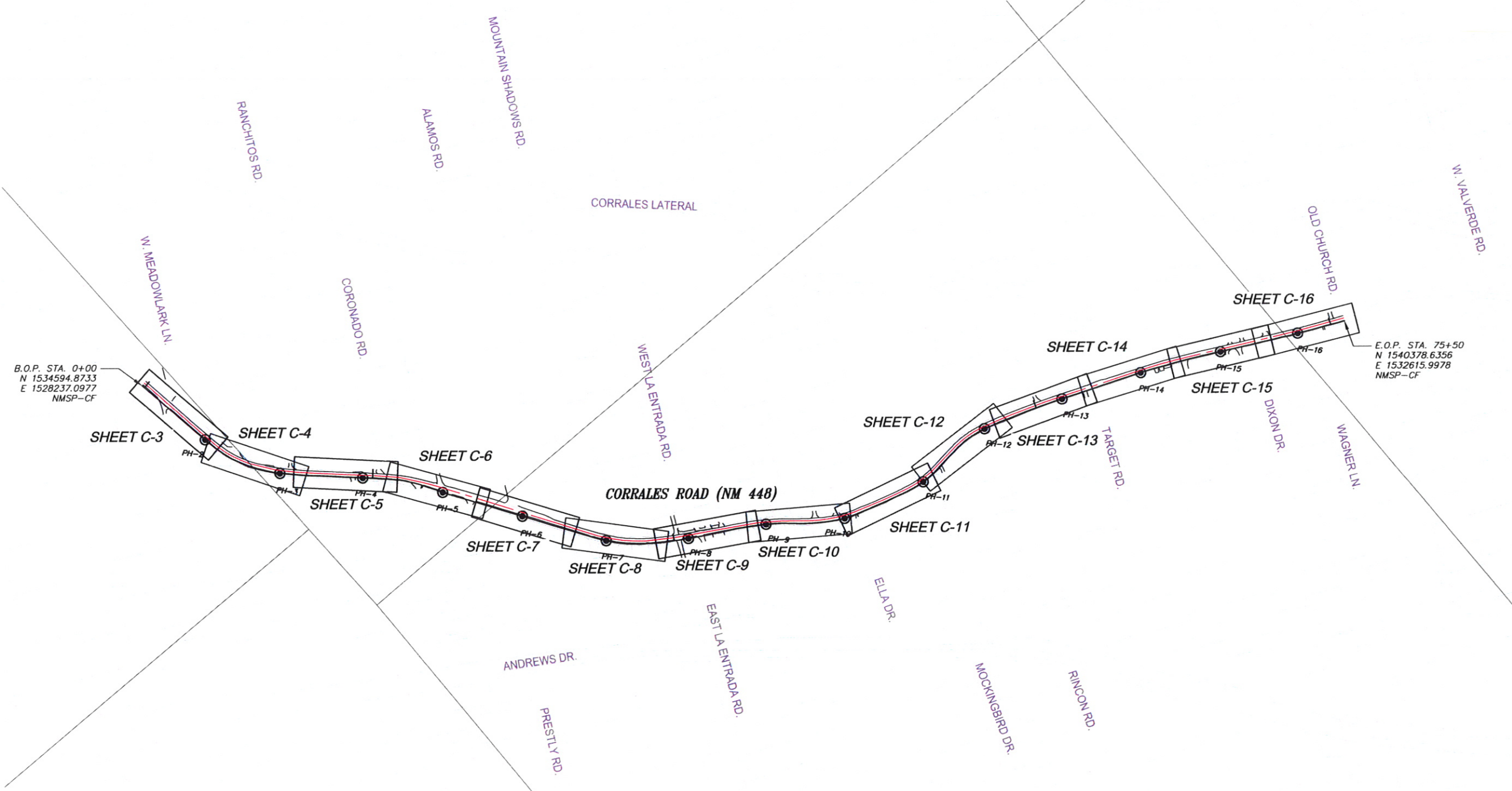
REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SEH
CHECKED BY: LTH
APPROVED BY: JAM

SMAS
Soudier, Miller & Associates, 3451 Candelaria Rd.,
Albuquerque, New Mexico 87107
Sante Fe, NM - Cortez, CO - Monticello, UT

DESIGN CALCULATIONS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated
SHEET
G-3



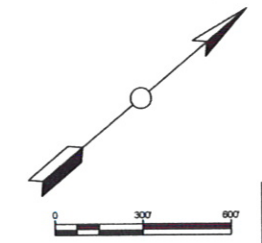
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E 1528237.0977
NMSP-CF

E.O.P. STA. 75+50
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E 1532615.9978
NMSP-CF

LEGEND

UTILITY POTHOLE INVESTIGATION,
MARCH 2009. SEE CONTRACT
DOCUMENTS.

KEY MAP



**NOTICE OF
EXTENDED PAYMENT PROVISION:**
THIS CONTRACT ALLOWS THE
OWNER TO MAKE PAYMENT
WITHIN 45 DAYS AFTER
SUBMISSION OF AN UNDISPUTED
REQUEST FOR PAYMENT.

P:\CORRALES\WW\8417098\DRAWINGS\BUILT\SC-1 KEY MAPS\REC.DWG

REVISIONS		
BY	DATE	DESC

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: ACT
APPROVED BY: JAM



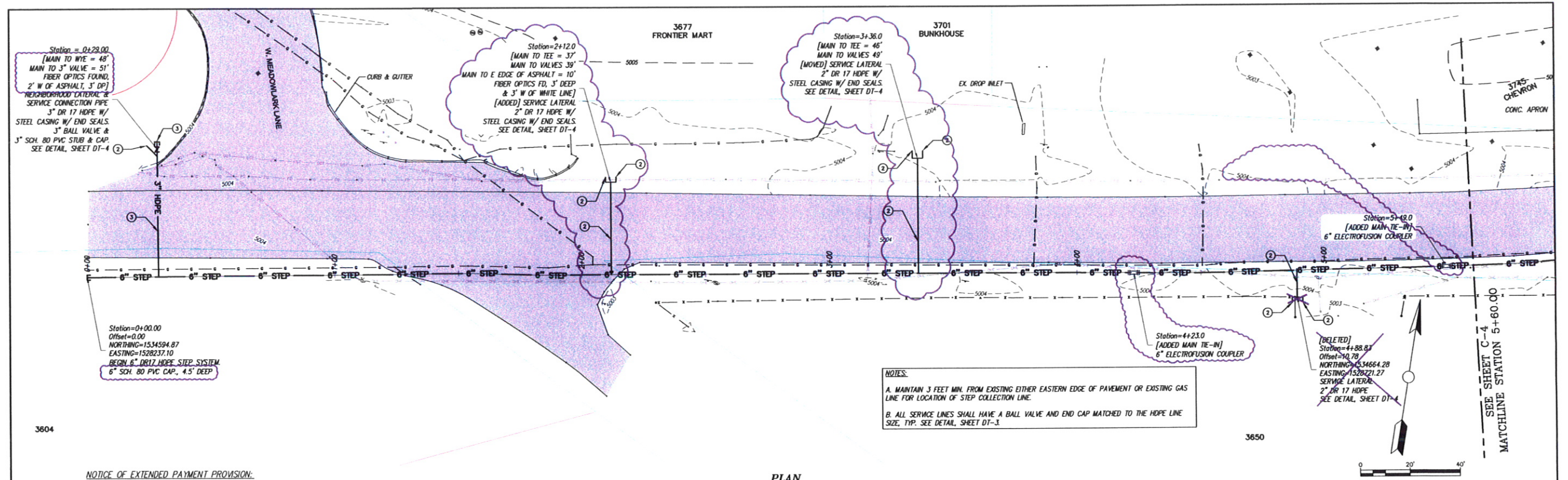
SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

**NOTICE OF
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PAYMENT.

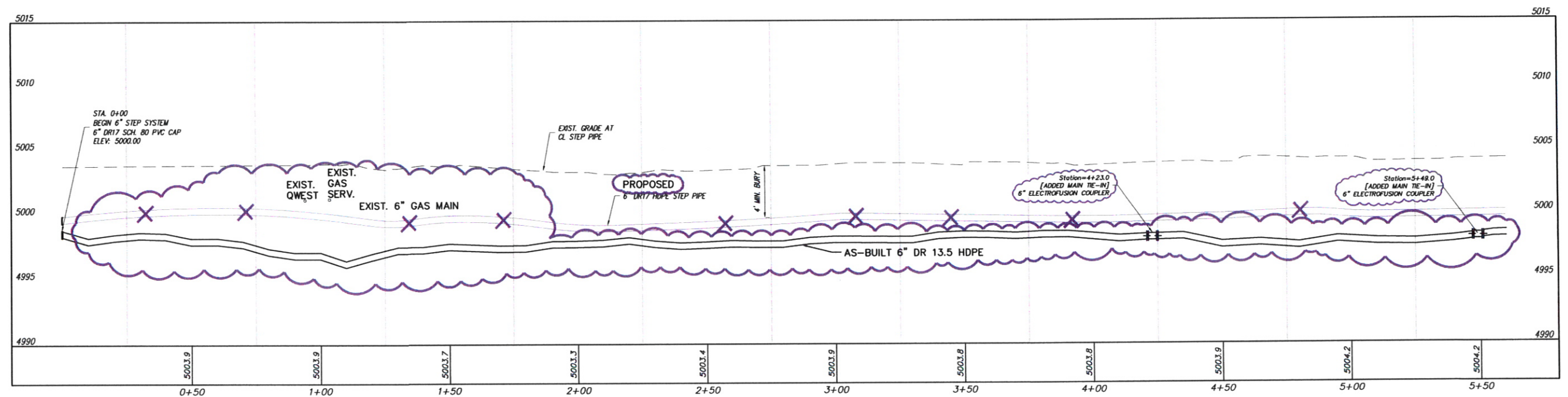
**KEY MAP
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION
SYSTEM CORRALES, NEW MEXICO**

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incomplete and
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for construction
unless it is
stamped, signed
and dated

**SHEET
C-1**



NOTICE OF EXTENDED PAYMENT PROVISION:
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P:\C\CORRALES\WW (8417098)\DRAFTING\AS-BUILT\TSC3 STA. 0+00 TO STA. 5+60-REC.DWG

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



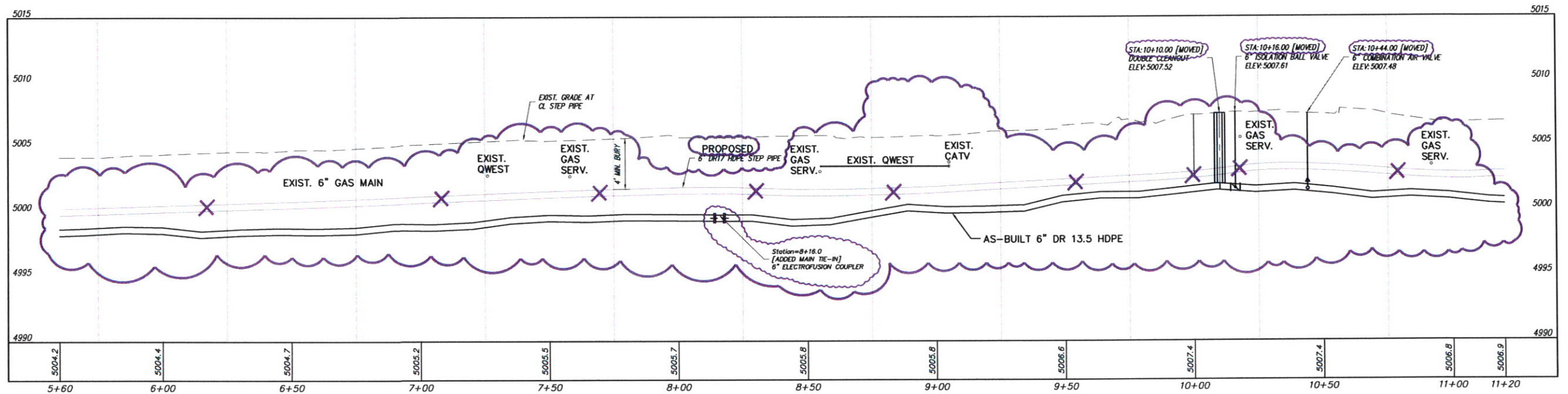
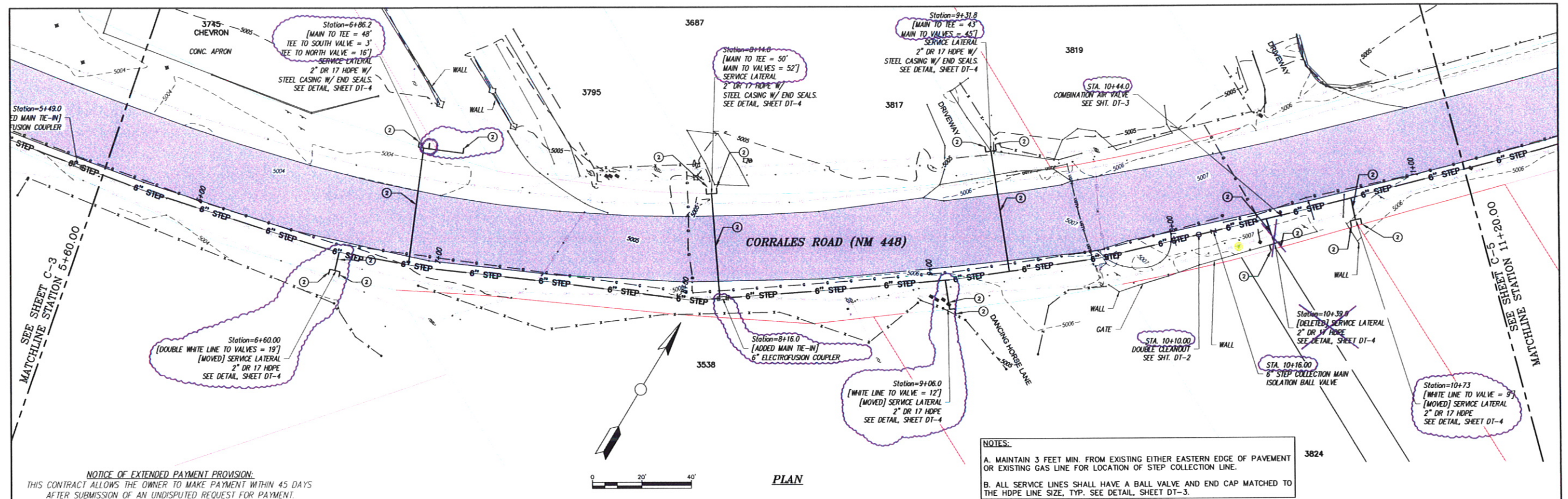
SMA
Soudier, Miller & Associates, 3451 Candelaria Rd.,
Albuquerque, New Mexico 87107 TEL: 505-299-0942
Albuquerque - Las Cruces
Santa Fe, NM - Cortez, CO - Monticello, UT

NOTICE OF EXTENDED PAYMENT PROVISION:
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STEP SYSTEM PLAN & PROFILE STA. 0+00 TO STA. 5+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

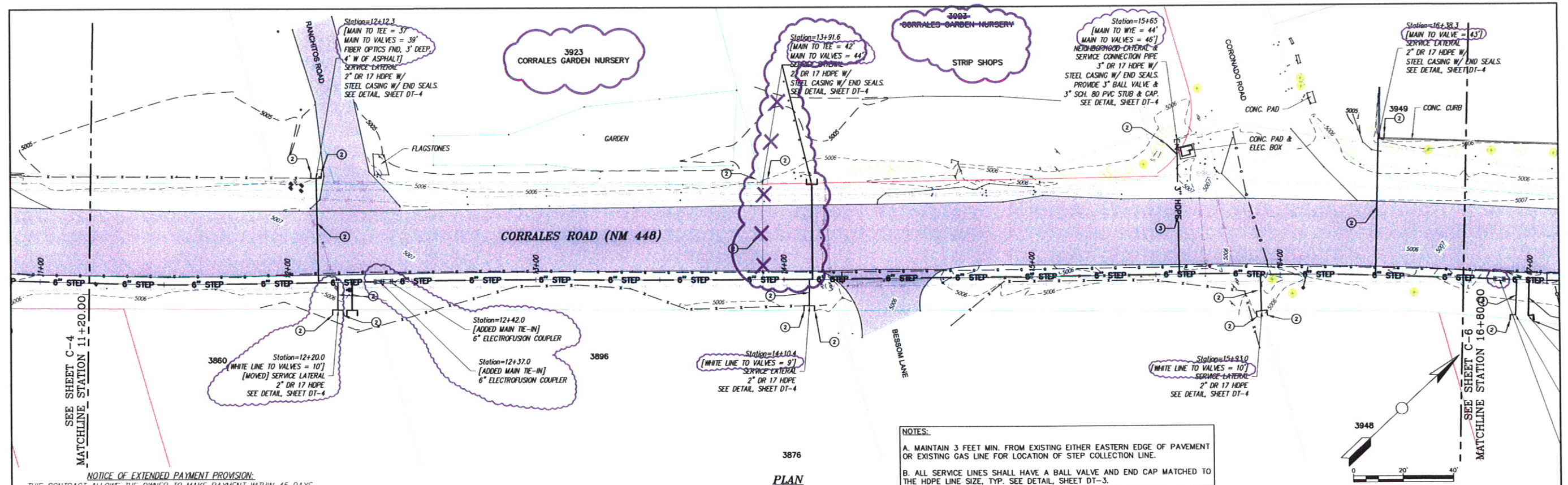
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SHEET
C-3



P:\CORRALES.WW (8417098)\DRAFTING\AS-BUILT\BSC-4 STA. 5+60 TO STA. 11+20-REC'D.DWG

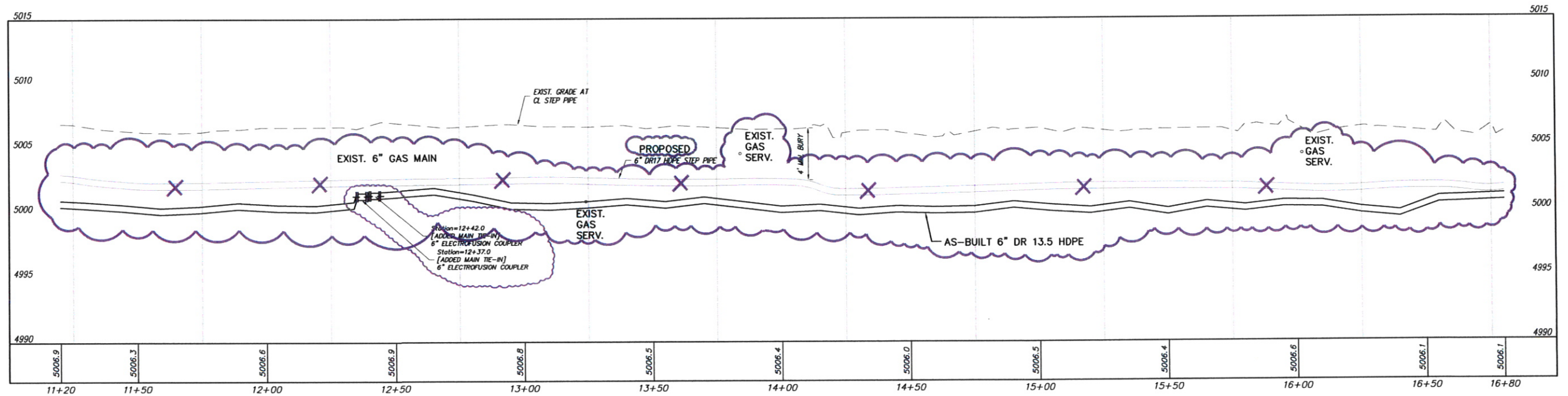
REVISIONS			DATE: 8/3/2010	DRAWN BY: SEH	SMA	SOUDEY, MILLER & ASSOCIATES, 3451 CANDELARIA RD., ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942 Albuquerque - Las Cruces - Santa Fe, NM - Cortez, CO - Monticello, UT	STEP SYSTEM PLAN & PROFILE STA. 5+60 TO STA. 11+20 PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM CORRALES, NEW MEXICO	This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated	SHEET C-4
BY	DATE	DESC							
SMA-MS	3-8-10	AS-BUILT SSW BORE PATH	SCALE: AS SHOWN	CHECKED BY: LTH	<small>NOTICE OF EXTENDED PAYMENT PROVISION: THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.</small>				
				APPROVED BY: JAM					



NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS
AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

3876
PLAN

NOTES:
A. MAINTAIN 3 FEET MIN. FROM EXISTING EITHER EASTERN EDGE OF PAVEMENT
OR EXISTING GAS LINE FOR LOCATION OF STEP COLLECTION LINE.
B. ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO
THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.



STEP SYSTEM PROFILE
SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS			DATE:	DRAWN BY:	CHECKED BY:	APPROVED BY:
BY	DATE	DESC				
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH	8/3/2010	SBH	LTH	JAM
			SCALE: AS SHOWN			



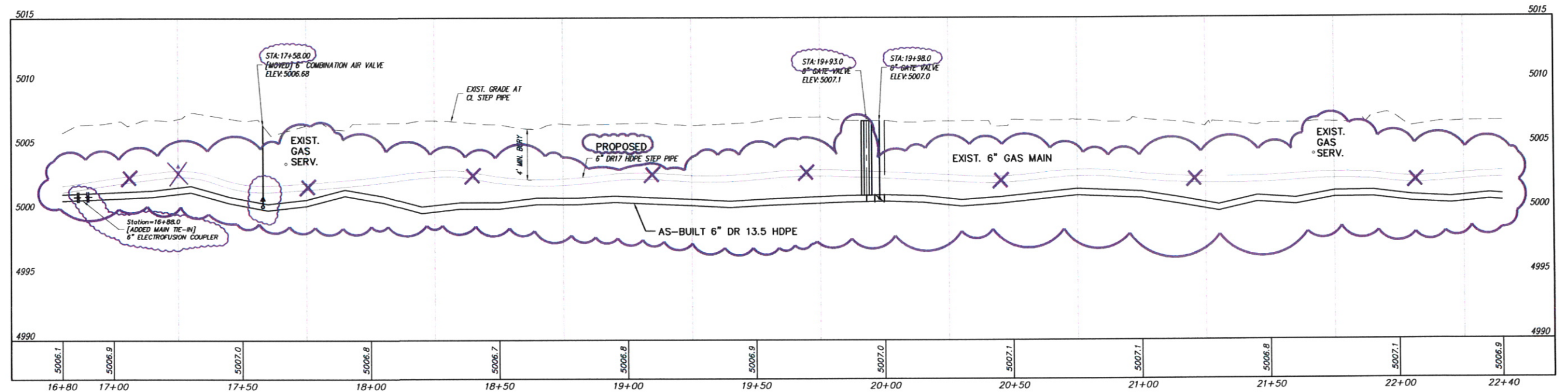
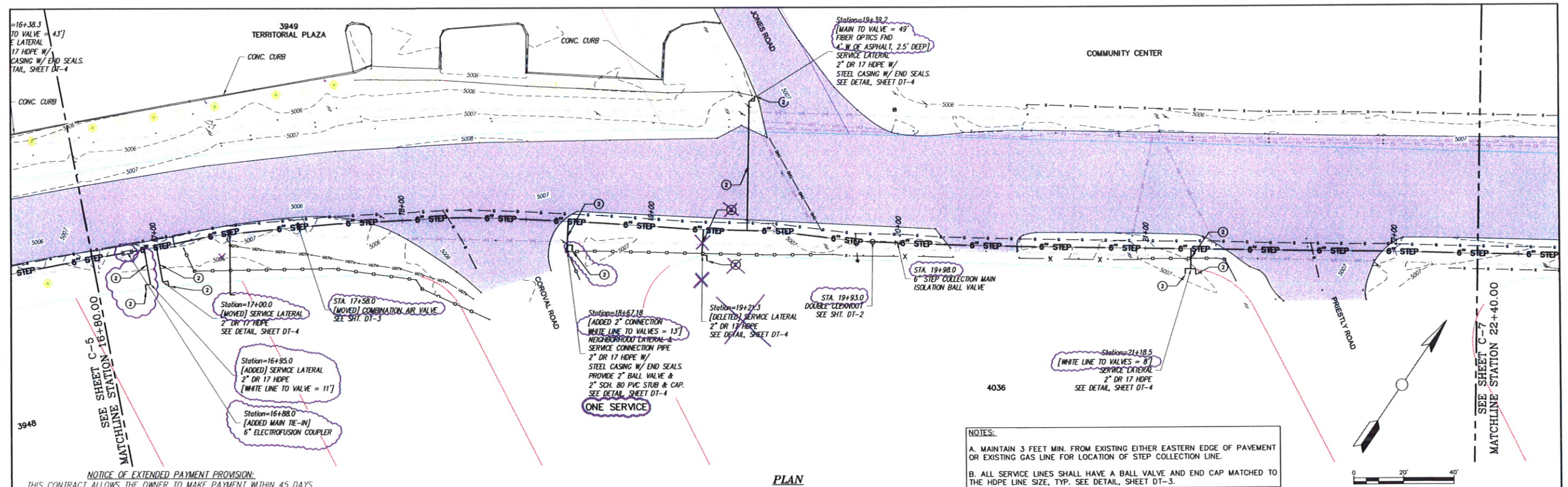
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ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT


NOTICE OF
EXTENDED PAYMENT PROVISION:
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PAYMENT.

STEP SYSTEM PLAN & PROFILE STA. 11+20 TO STA. 16+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

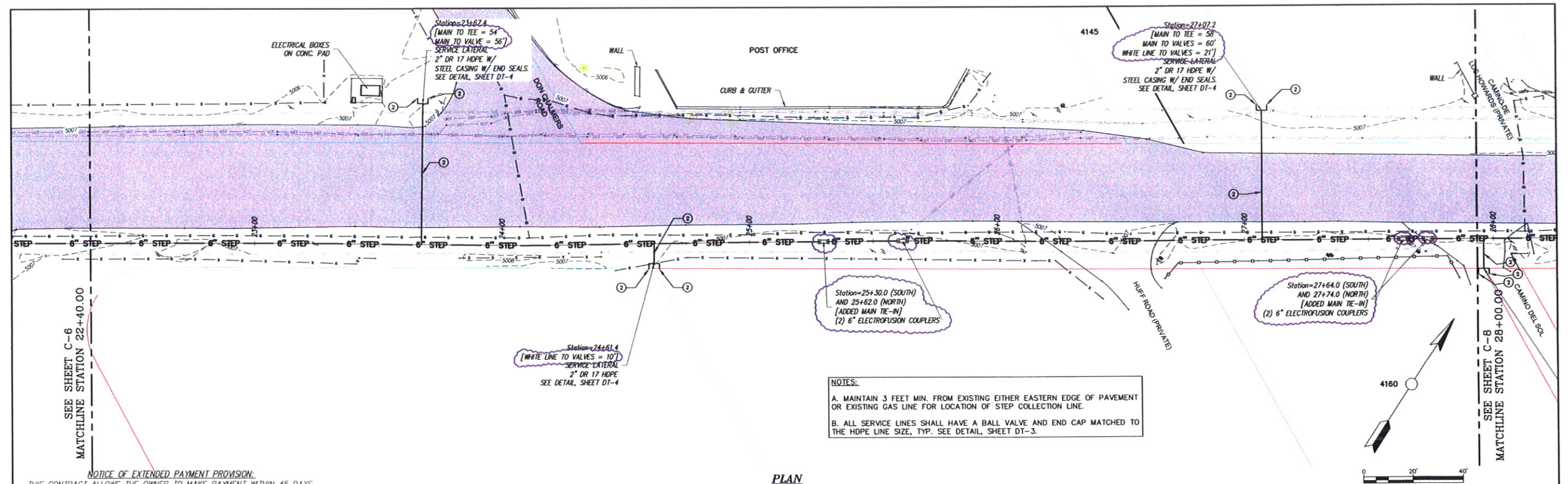
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SHEET
C-5

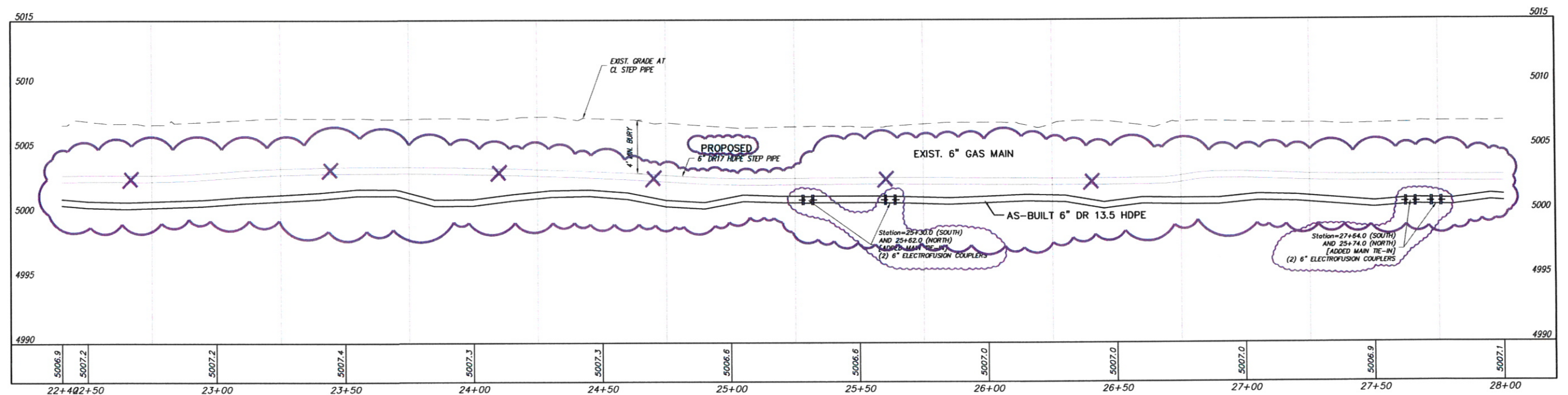


<div>STEP SYSTEM PROFILE</div> <div>SCALE: HORIZ: 1" = 20'</div> <div>VERT: 1" = 5'</div>										<div>SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,</div> <div>ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942</div> <div>Albuquerque - Las Cruces -</div> <div>Santa Fe, NM - Cortes, CO - Monticello, UT</div>										<div>STEP SYSTEM PLAN & PROFILE STA. 16+80 TO STA. 22+40</div> <div>PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM</div> <div>CORRALES, NEW MEXICO</div>										<div>This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated</div>										<div>SHEET</div> <div>C-6</div>									
<div>REVISIONS</div> <table><thead><tr><th>BY</th><th>DATE</th><th>DESC</th></tr></thead><tbody><tr><td>SMA-MS</td><td>3-8-10</td><td>AS-BUILT SSWR BORE PATH</td></tr></tbody></table>										BY	DATE	DESC	SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH	<div>DATE: 8/3/2010</div> <div>SCALE: AS SHOWN</div> <div>DRAWN BY: SBH</div> <div>CHECKED BY: LTH</div> <div>APPROVED BY: JAM</div>										<div></div> <div>Chd / Environmental Scheduler & Engineers</div>										<div>NOTE: IF EXTENDED PAYMENT PROVISION AND CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 60 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT</div>													
BY	DATE	DESC																																															
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH																																															

P:\6-CORRALES MW (8417098)\DRAFTING\AS-BUILT\TSC-6 STA. 16+80 TO STA. 22+40-REC'D.DWG



NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS
AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



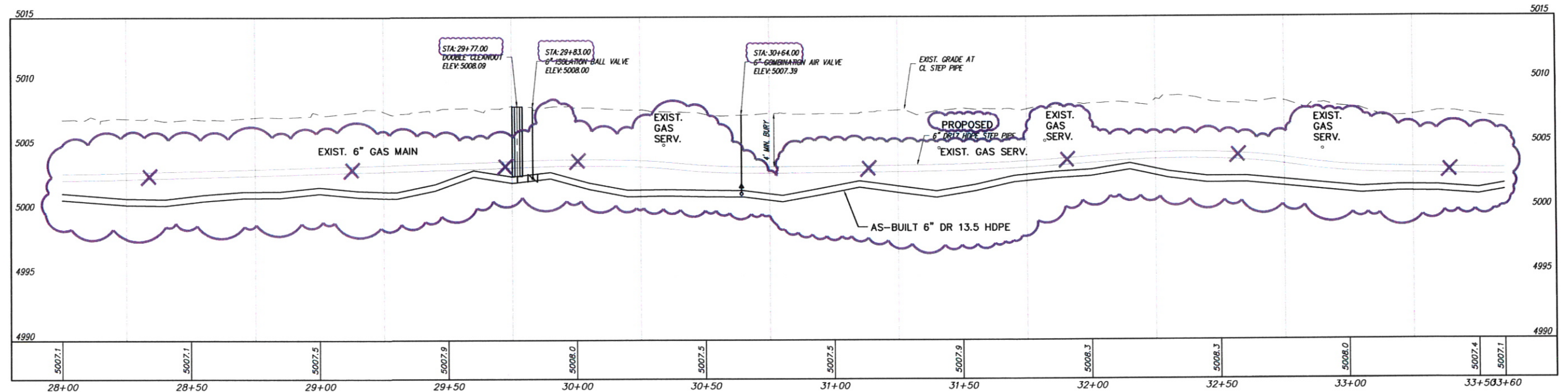
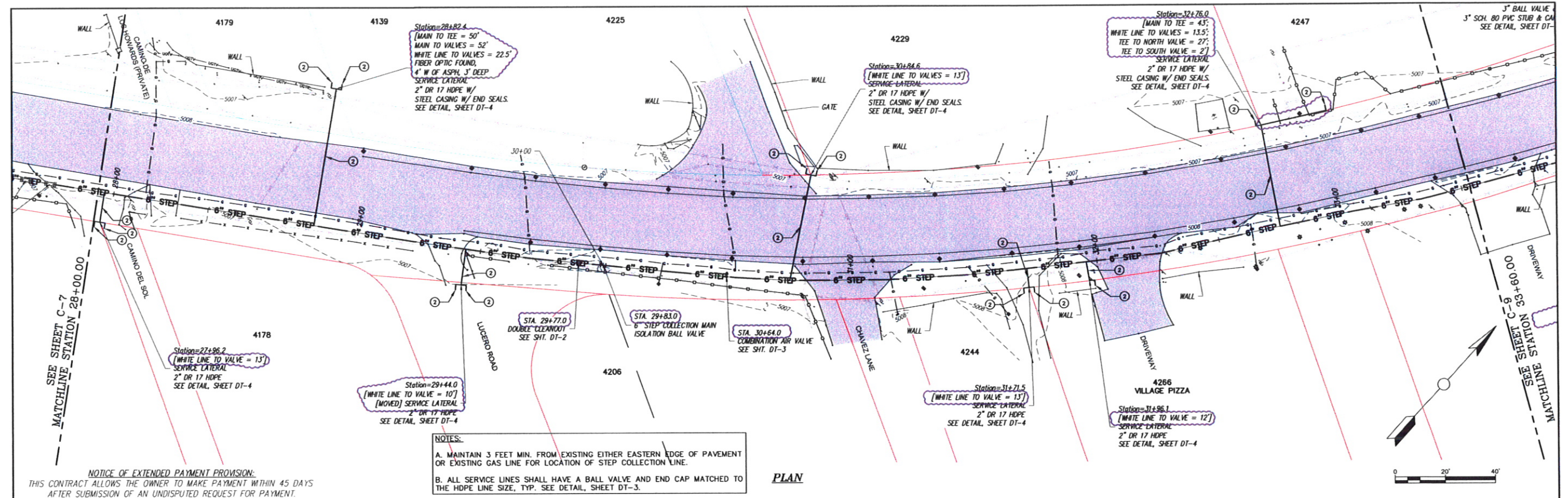
SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD.,
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Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

NOTICE OF
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STEP SYSTEM PLAN & PROFILE STA. 22+40 TO STA. 28+00
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
C-7



P:\B\CORRALES\WV\B41709\UDRAFTING\GAS BUILDING STA. 28+00 TO STA. 33+60.DWG

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SEH
CHECKED BY: LTH
APPROVED BY: JAM



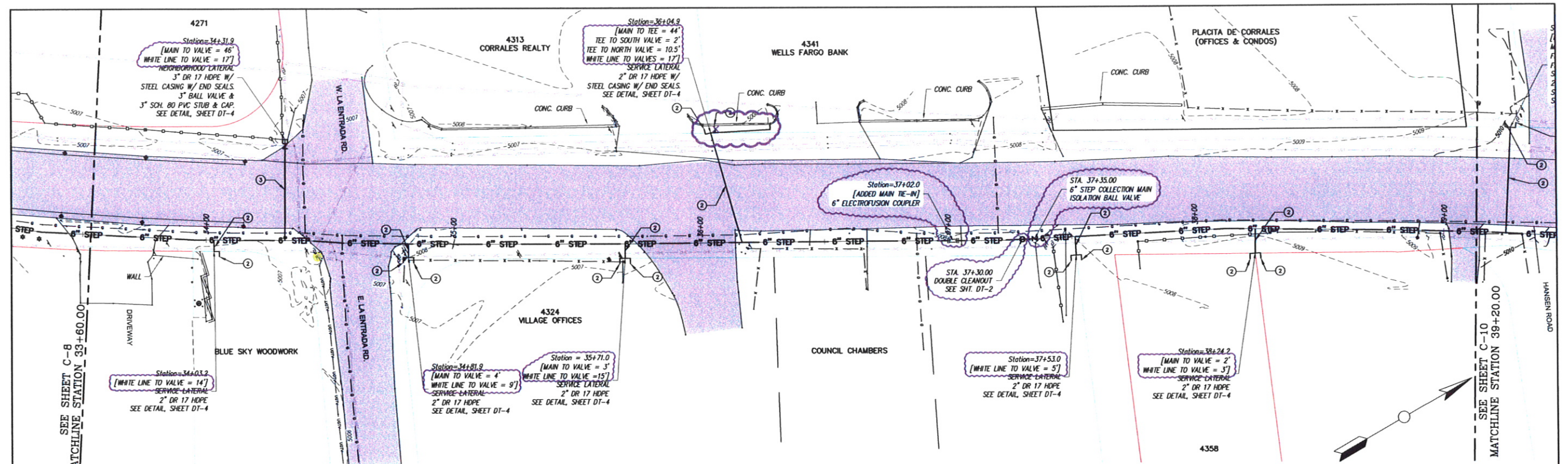
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ALBUQUERQUE, NEW MEXICO 87107 TEL: 505-298-0942
Albuquerque - Las Cruces
Santa Fe, NM - Cortez, CO - Monticello, UT

NOTICE OF EXTENDED PAYMENT PROVISION:
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**STEP SYSTEM PLAN & PROFILE STA. 28+00 TO STA. 33+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO**

This drawing is incomplete and not to be used for construction unless it is stamped, signed and dated

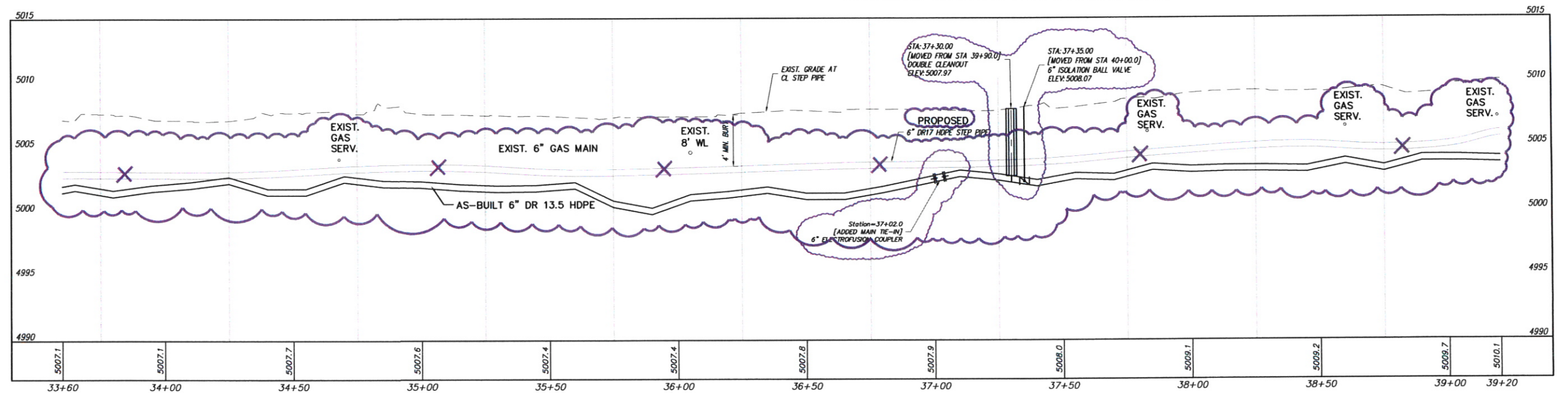
**SHEET
C-8**



NOTICE OF EXTENDED PAYMENT PROVISION:
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AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

PLAN

- NOTES:
- MAINTAIN 3 FEET MIN. FROM EXISTING EITHER EASTERN EDGE OF PAVEMENT OR EXISTING GAS LINE FOR LOCATION OF STEP COLLECTION LINE.
 - ALL SERVICE LINES SHALL HAVE A BALL VALVE AND END CAP MATCHED TO THE HDPE LINE SIZE, TYP. SEE DETAIL, SHEET DT-3.



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



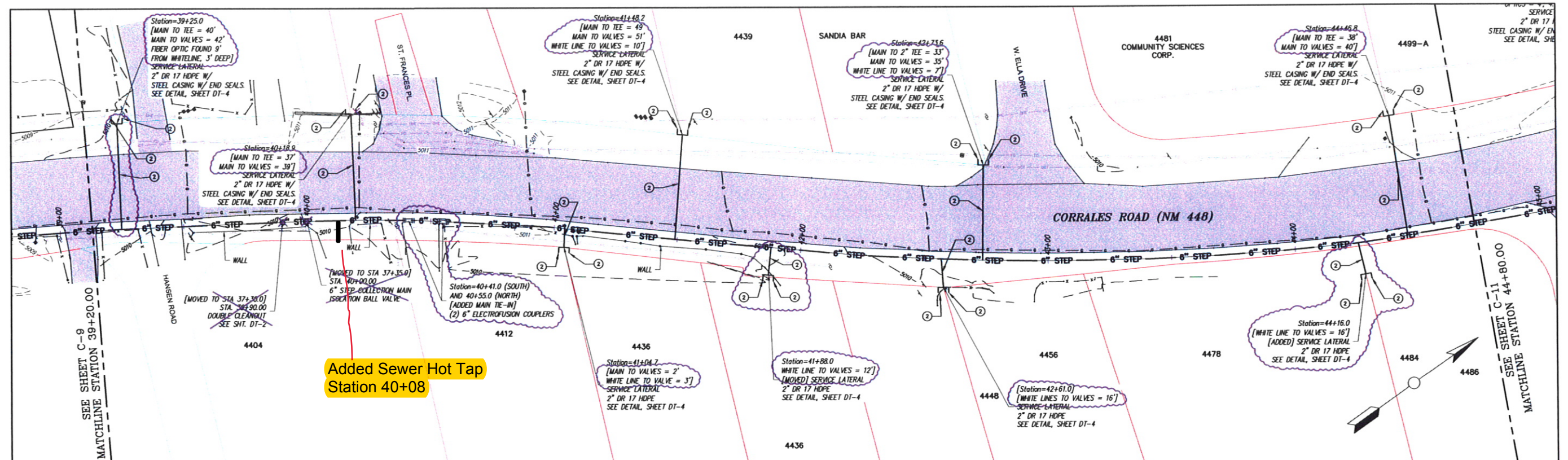
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Albuquerque - Las Cruces -
Santa Fe, NM - Cortez, CO - Monticello, UT

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STEP SYSTEM PLAN & PROFILE STA. 33+60 TO STA. 39+20
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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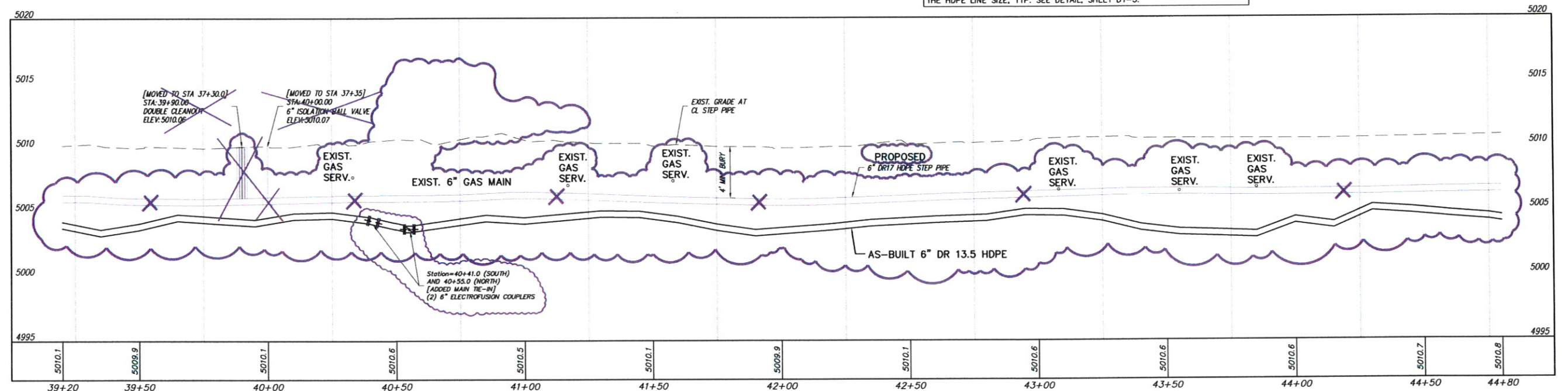
SHEET
C-9



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN

NOTES:
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STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM

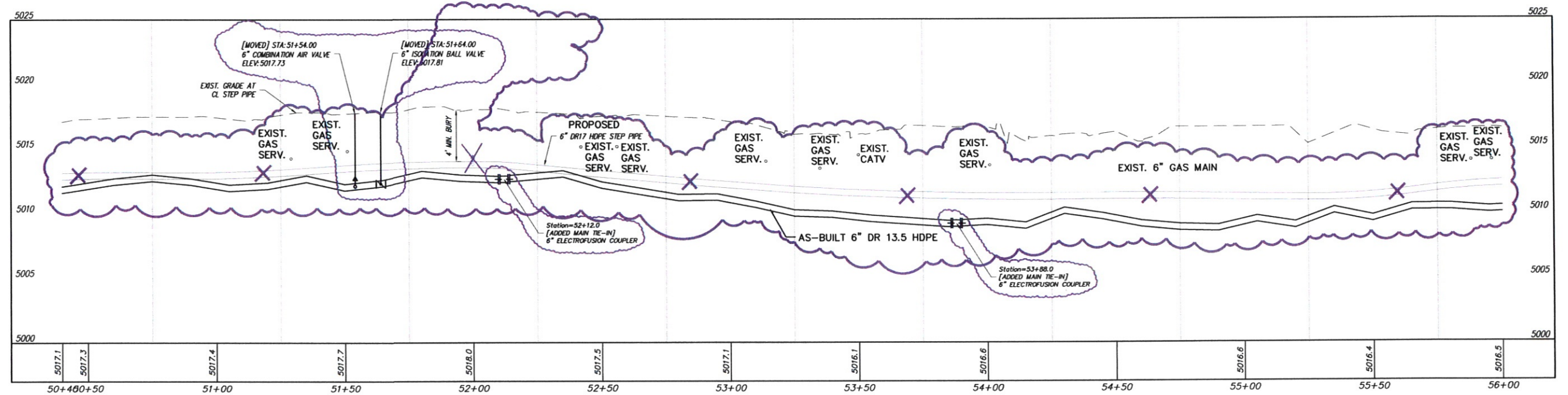
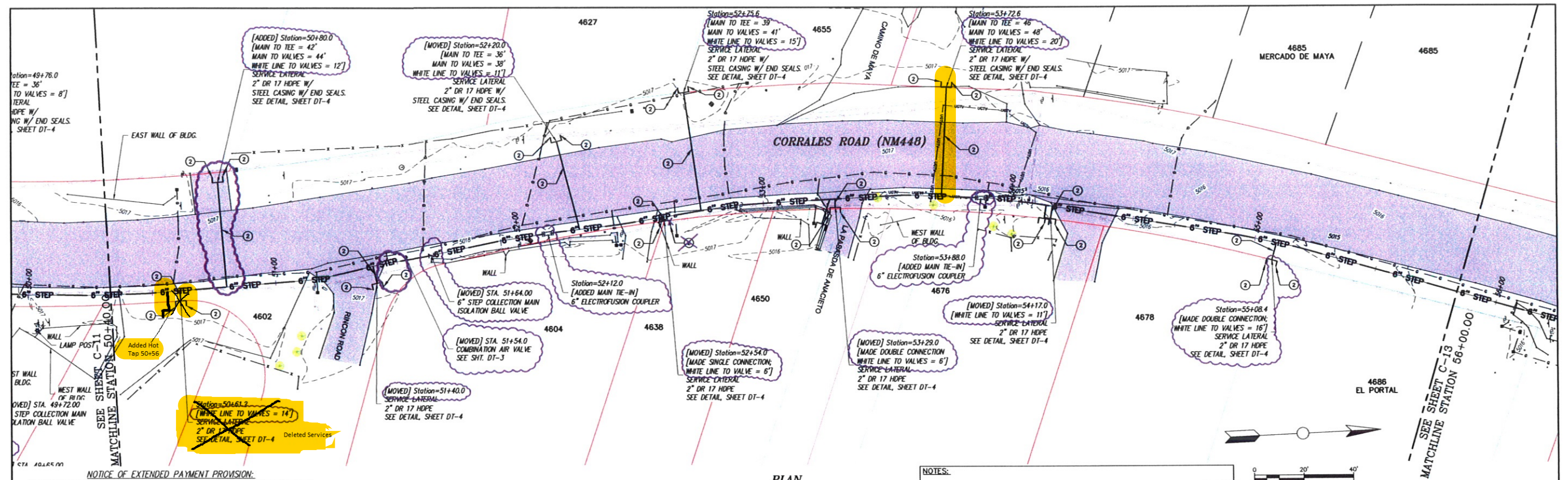


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STEP SYSTEM PLAN & PROFILE STA. 39+20 TO STA. 44+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
C-10



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REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



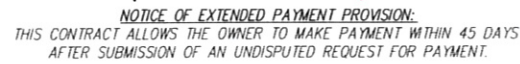
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ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942
Albuquerque - Las Cruces -
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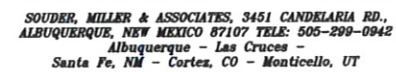
STEP SYSTEM PLAN & PROFILE STA. 50+00 TO STA. 56+00
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
C-12



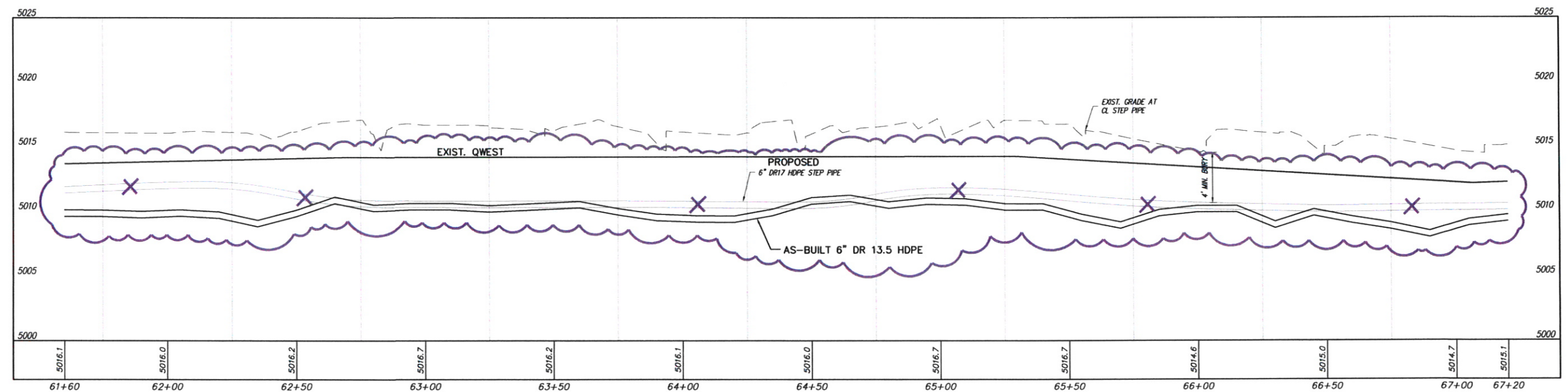
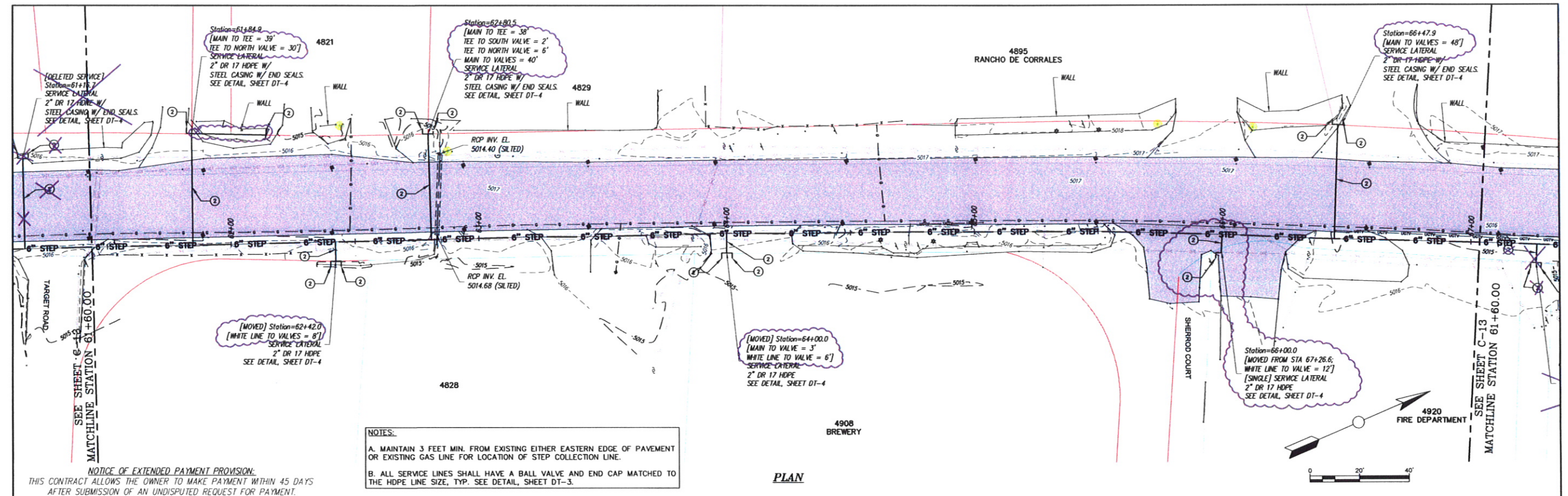
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CHECKED BY: LTH
SCALE: AS SHOWN APPROVED BY: JAM



STEP SYSTEM PLAN & PROFILE STA. 56+00 TO STA. 61+60
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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—13



P:\6-CORRALES\WV\8417086\INDRAFTING\AS-BUILT\SC-14 STA. 61+60 TO STA. 67+20-REC.DWG

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010
SCALE: AS SHOWN

DRAWN BY: SBH
CHECKED BY: LTH
APPROVED BY: JAM



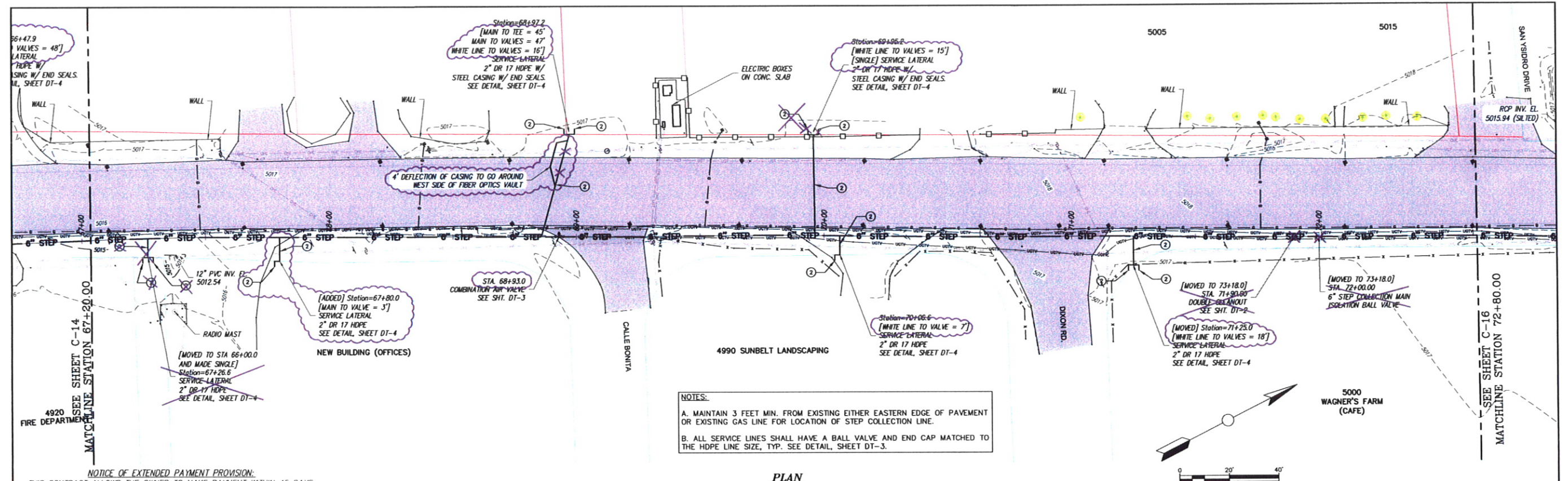
SOUTHERN MOUNTAIN ASSOCIATES, 3451 CANDELARIA RD., ALBUQUERQUE, NEW MEXICO 87107 TEL: 505-299-0942
Albuquerque - Las Cruces - Santa Fe, NM - Cortez, CO - Monticello, UT

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**STEP SYSTEM PLAN & PROFILE STA. 61+60 TO STA. 67+20
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO**

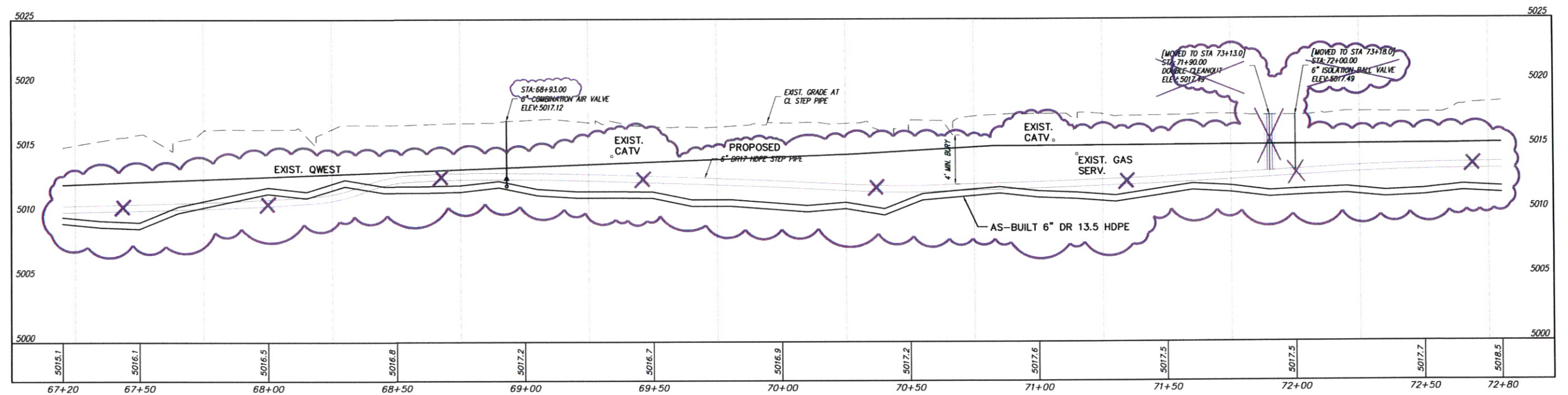
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**SHEET
C-14**



NOTICE OF EXTENDED PAYMENT PROVISION:
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PLAN



STEP SYSTEM PROFILE

SCALE: HORIZ: 1" = 20'
VERT: 1" = 5'

REVISIONS		
BY	DATE	DESC
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH

DATE: August 3, 2010 DRAWN BY: SBH
CHECKED BY: LTH
SCALE: AS SHOWN APPROVED BY: JAM



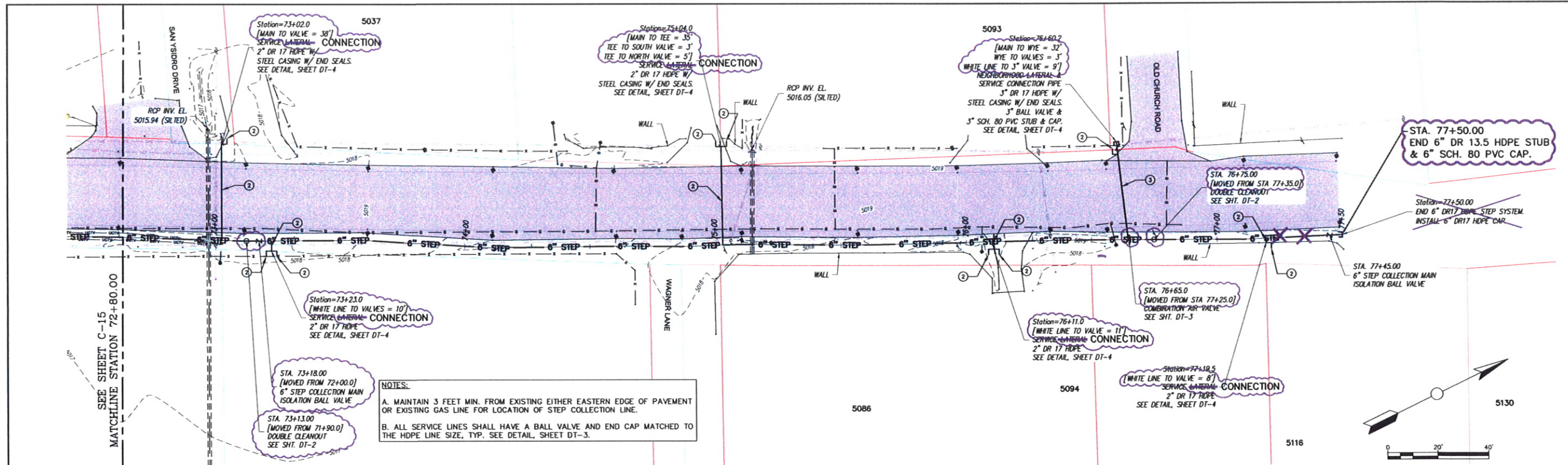
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Santa Fe, NM - Cortez, CO - Monticello, UT

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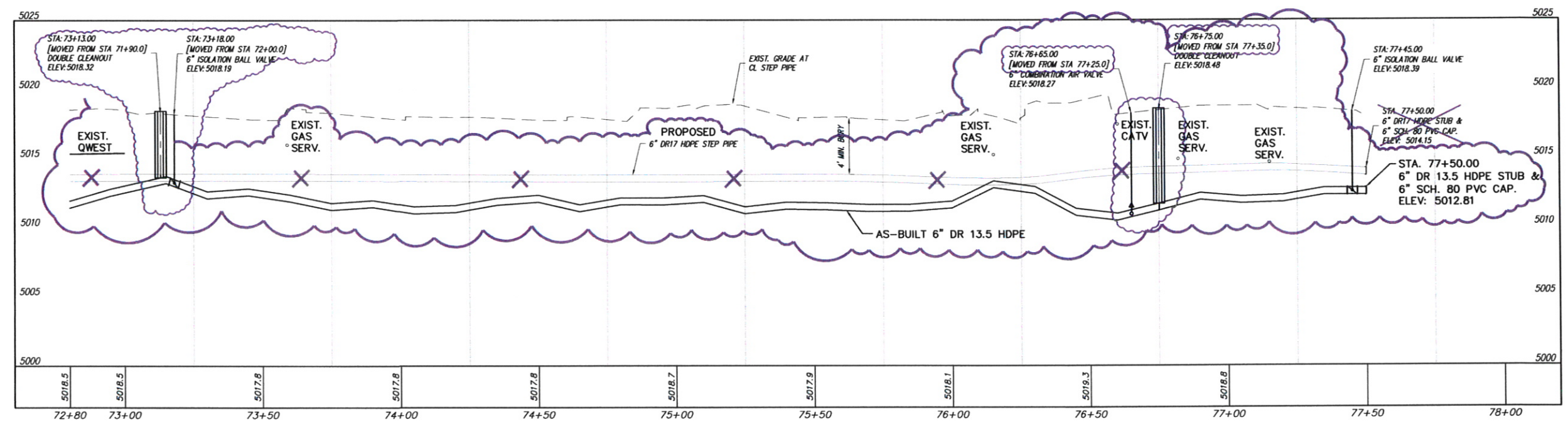
STEP SYSTEM PLAN & PROFILE STA. 67+20 TO STA. 72+80
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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C-15



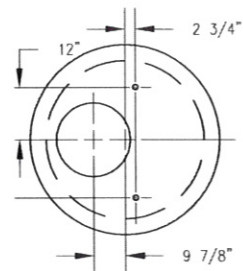
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 THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.



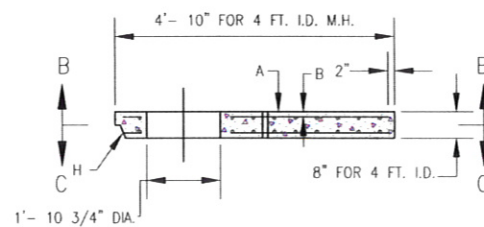
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REVISIONS			DATE: August 3, 2010	DRAWN BY: SEH	CHECKED BY: LTH	APPROVED BY: JAM	 SMA SOUDER, MILLER & ASSOCIATES, 3451 CANDELARIA RD., ALBUQUERQUE, NEW MEXICO 87107 TELE: 505-299-0942 Albuquerque - Las Cruces - Santa Fe, NM - Cortez, CO - Monticello, UT	THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED.	SHEET C-16
BY	DATE	DESC							
SMA-MS	3-8-10	AS-BUILT SSWR BORE PATH							

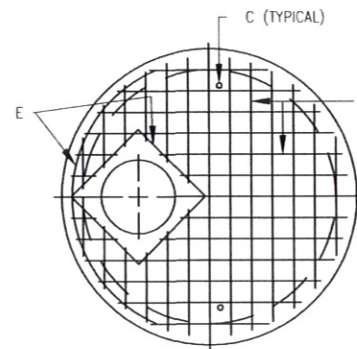
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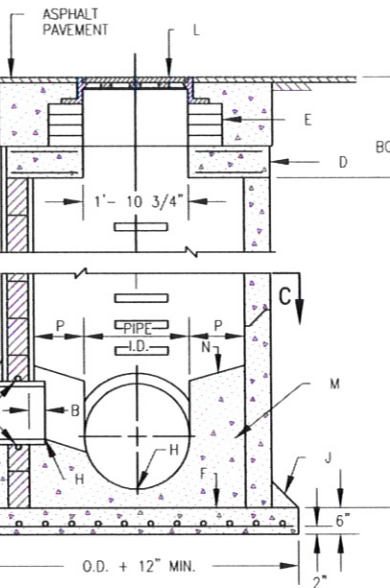
PLAN - 4' I.D. MH



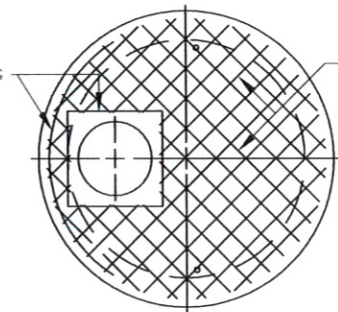
SECTION
A-A



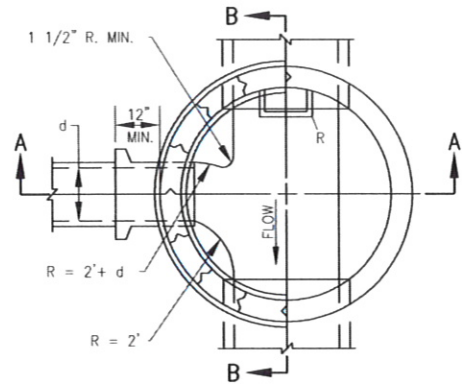
SECTION B-B
TOP MAT



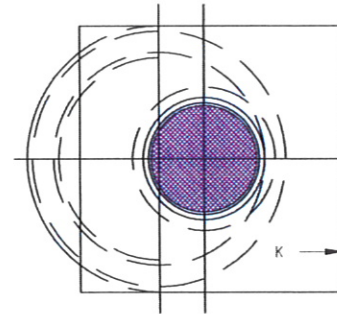
CROSS SECTION A-A



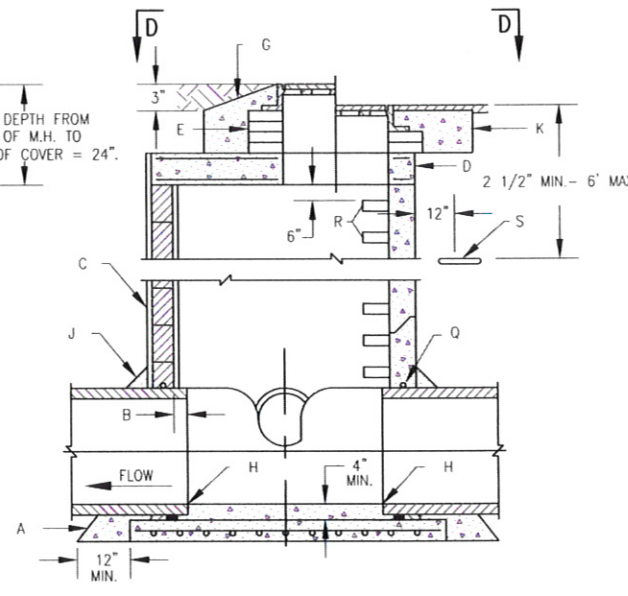
SECTION C-C
BOTTOM MAT



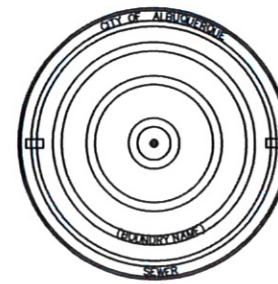
PLAN AT C-C



PLAN AT D-D



CROSS SECTION B-B



VENTED COVER FOR TYPE C M.H.

GENERAL NOTES:

1. USE TYPE C M.H. FOR DEPTHS OF LESS THAN 6' MEASURED FROM INV. TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE C M.H. IN LIEU OF TYPE E M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4' & 6' I.D. MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTION PRECAST CONCRETE SECTIONS.
5. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PENETRATIONS.
6. COMPACT ALL BACKFILL AROUND MANHOLE TO 95%.
7. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

CONSTRUCTION NOTES:

- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- C. MANHOLE MUST BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
- D. PRECAST CONCRETE COVER, SEE DWG. 2107.
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
- G. IN UNPAVED AREAS, SET FRAME TO GRADE AND SLOPE TOP OF PAD.
- H. INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
- J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
- L. FRAME AND COVER, SEE DWG. 2110. M. CONCRETE FILL, 3000 PSI.
- N. SLOPE 1" PER FT. FROM PIPE CROWN.
- P. SHELF TO BE 9" WIDE MIN.
- Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
- R. STEPS TO BE INSTALLED @ 16" O.C.
- S. EMD (IN UNPAVED AREAS).

PROJECT NOTE:

TYPE "C" MANHOLE TO BE USED ON THIS PROJECT SOLELY FOR EQUIPMENT AND APPURTENANCES ACCESS; NOT FOR CONVEYANCE OF SANITARY WASTE.

CONSTRUCTION NOTES FOR 4' DIA. M.H. COVER:

- A. PRECAST REINF. CONC. MH COVER.
- B. ALL BARS TO HAVE 1 1/2" MIN. COVER.
- C. 1" PIPE SLEEVE VERTICAL THROUGH COVER. D. TOP MAT: NO. 4 BARS AT 6" O.C. EA. WAY FOR 4 FT. I.D. MH.
- E. NO. 4 BARS.
- F. BOTTOM MAT: NO. 4 BARS 6" O.C. EA. WAY FOR 4 I.D. MH.
- G. NO. 4 BARS FOR 4 FT. I.D. MH. BARS FOR 8 H. WHEN PRECAST M.H. SECTIONS ARE USED, COVER SHALL BE MODIFIED TO SHAPE OF APPROPRIATE SIZE T & G JOINT.

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE PAYMENT WITHIN 45 DAYS
AFTER SUBMISSION OF AN UNDISPUTED REQUEST FOR PAYMENT.

REVISIONS		
BY	DATE	DESC

DATE: 8/3/2010
SCALE: AS SHOWN
DRAWN BY: SBH
CHECKED BY: ACT
APPROVED BY: JAM



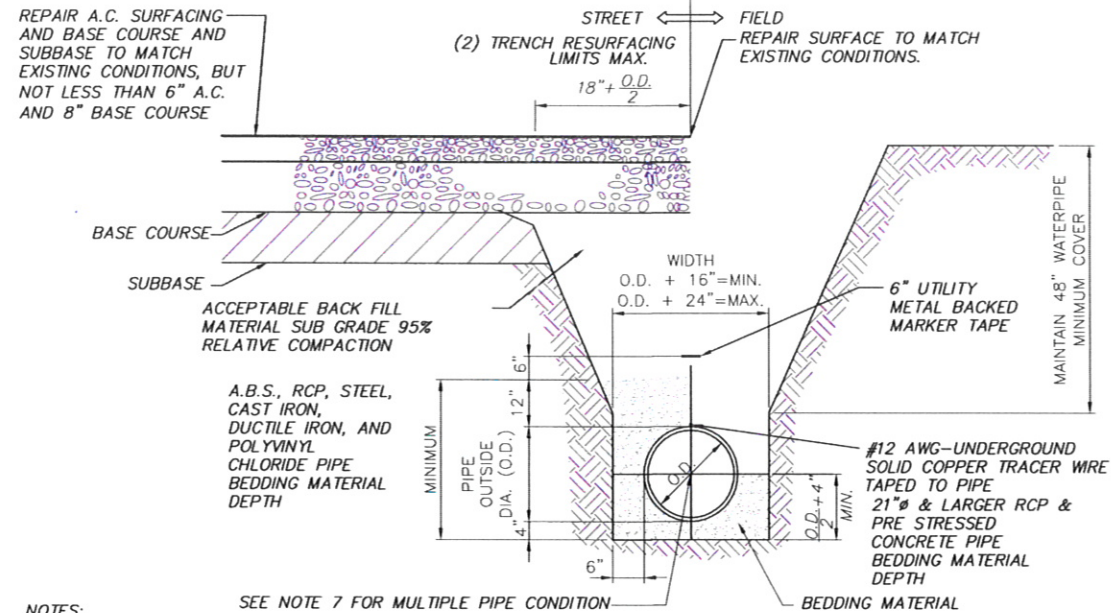
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MANHOLE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

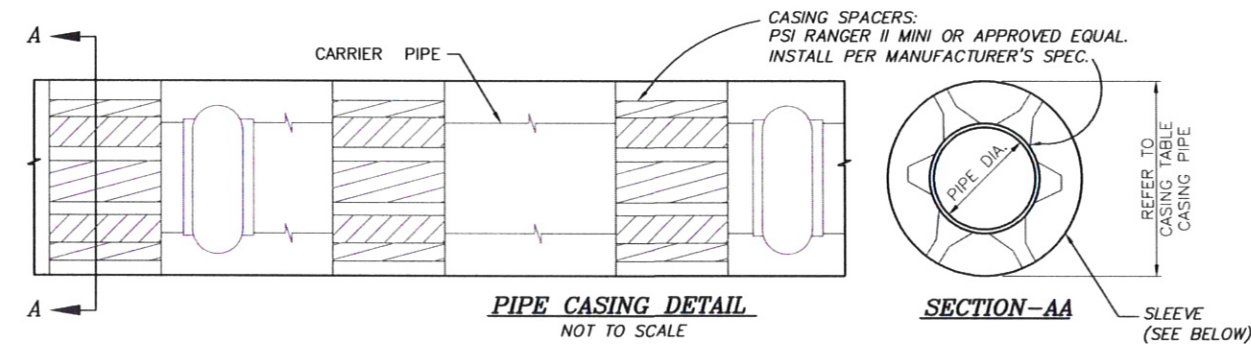
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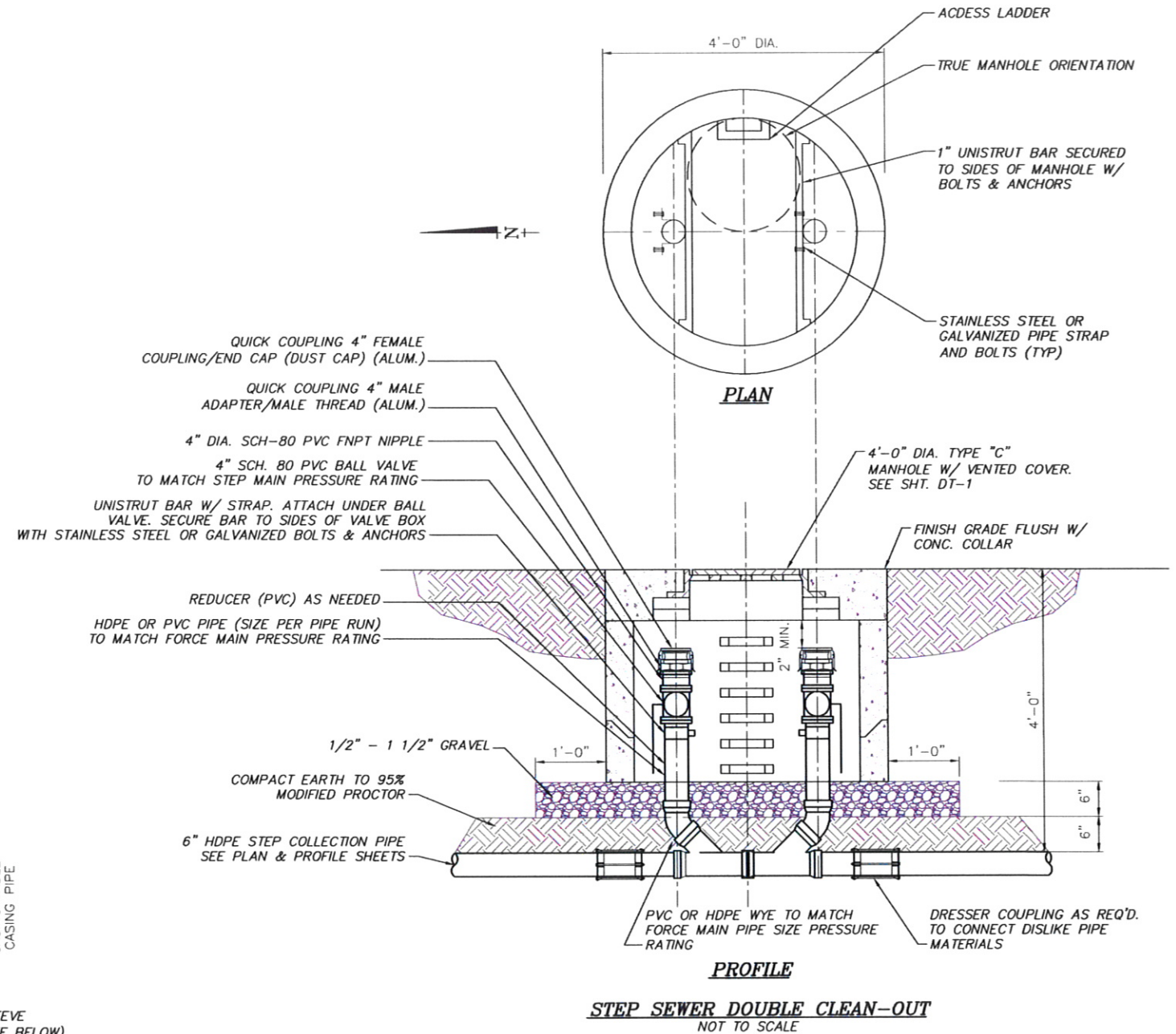
- NOTES:**
- SEE NOTE 7 FOR MULTIPLE PIPE CONDITION
- (1) MINIMUM COVER DEPTH BELOW OFFICIAL STREET GRADE.
 - (2) TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES.
 - (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPHALT AND STRIPING NEEDED TO PATCH DISTURBED AREAS. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. THE CONTRACTOR SHALL SUBMIT PATCHING METHODS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - (4) EXISTING A.C. PAVEMENT SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1 1/2" OR 25% OF ITS THICKNESS, WHICHEVER IS GREATER, IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL.
 - (5) A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL SURFACES, PRIOR TO RESURFACING.
 - (6) ASPHALTIC CONCRETE RESURFACING:
 - A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.
 - B) A.C. SHALL BE HOT PLANT MIX, NMDOT STANDARDS.
 - (7) WHEN MULTIPLE PIPES ARE PLACED IN ONE TRENCH, SEE PLANS FOR PIPE SIZES AND MINIMUM DISTANCES BETWEEN EACH PIPE (DISTANCE VARIES DEPENDING ON PIPE SIZES).

**GENERALIZED TRENCH LIMITS FOR OPEN TRENCH
PIPE INSTALLATION, BEDDING & BACKFILL LIMITS**
NOT TO SCALE



CASING SPECIFICATIONS			
LOCATION	CASING DIA. & MATERIAL	CARRIER	NOMINAL SPACER SKID HEIGHT
MULTIPLE	6" SCHED. 40 STEEL	2" DR 17 HDPE	1.5" PSI*
MULTIPLE	8" SCHED. 40 STEEL	3" DR 17 HDPE	2.0" PSI*

- NOTE:**
1. ALL HIGHWAY 448 CROSSINGS ARE TO BE AT 4' MINIMUM BURY DEPTH AND ARE OPEN TRENCH CONSTRUCTION UNLESS OTHERWISE NOTED.
 2. END SEALS REQUIRED. "PSI" OR APPROVED EQUAL.
- * = "PIPELINE SEAL & INSULATOR" OR APPROVED EQUAL



- NOTE:**
SIZE FITTINGS BY SIZE OF FORCE MAIN.
- NOTICE OF EXTENDED PAYMENT PROVISION:**
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BY	DATE	DESC	August 3, 2010	SBH
			SCALE: AS SHOWN	CHECKED BY: JAM
				APPROVED BY: JAM



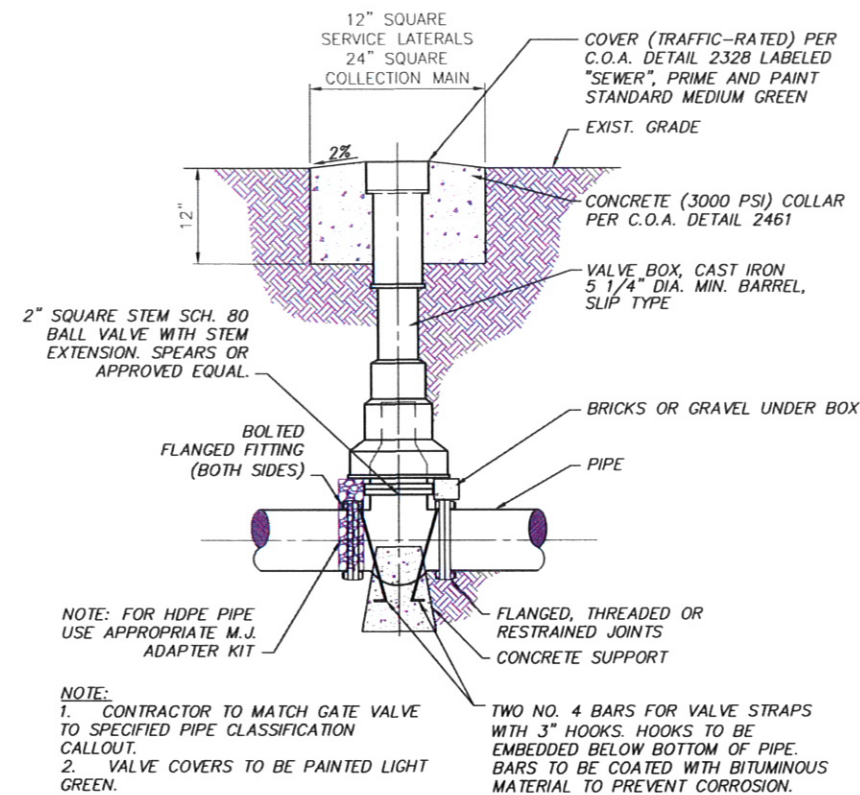
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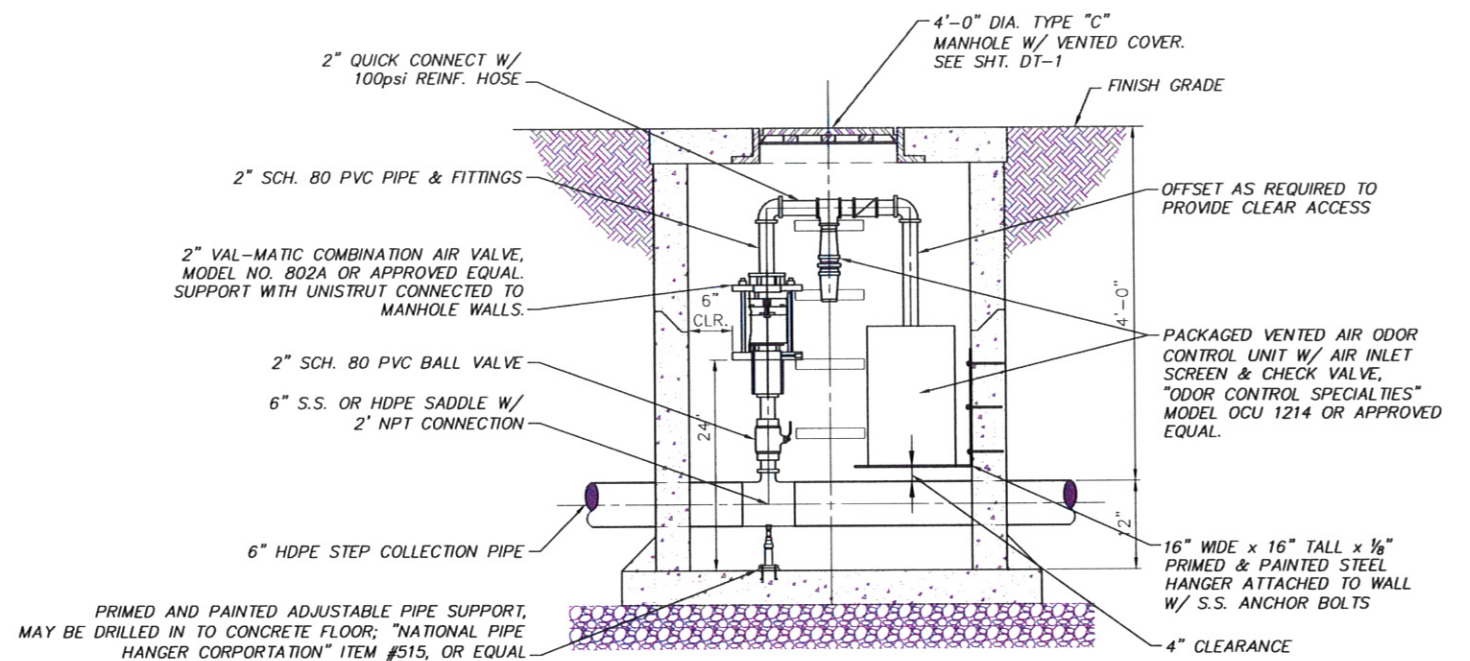
DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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TYPICAL BALL VALVE DETAIL
NOT TO SCALE



STEP PIPING COMBO AIR VALVE DETAIL
NOT TO SCALE

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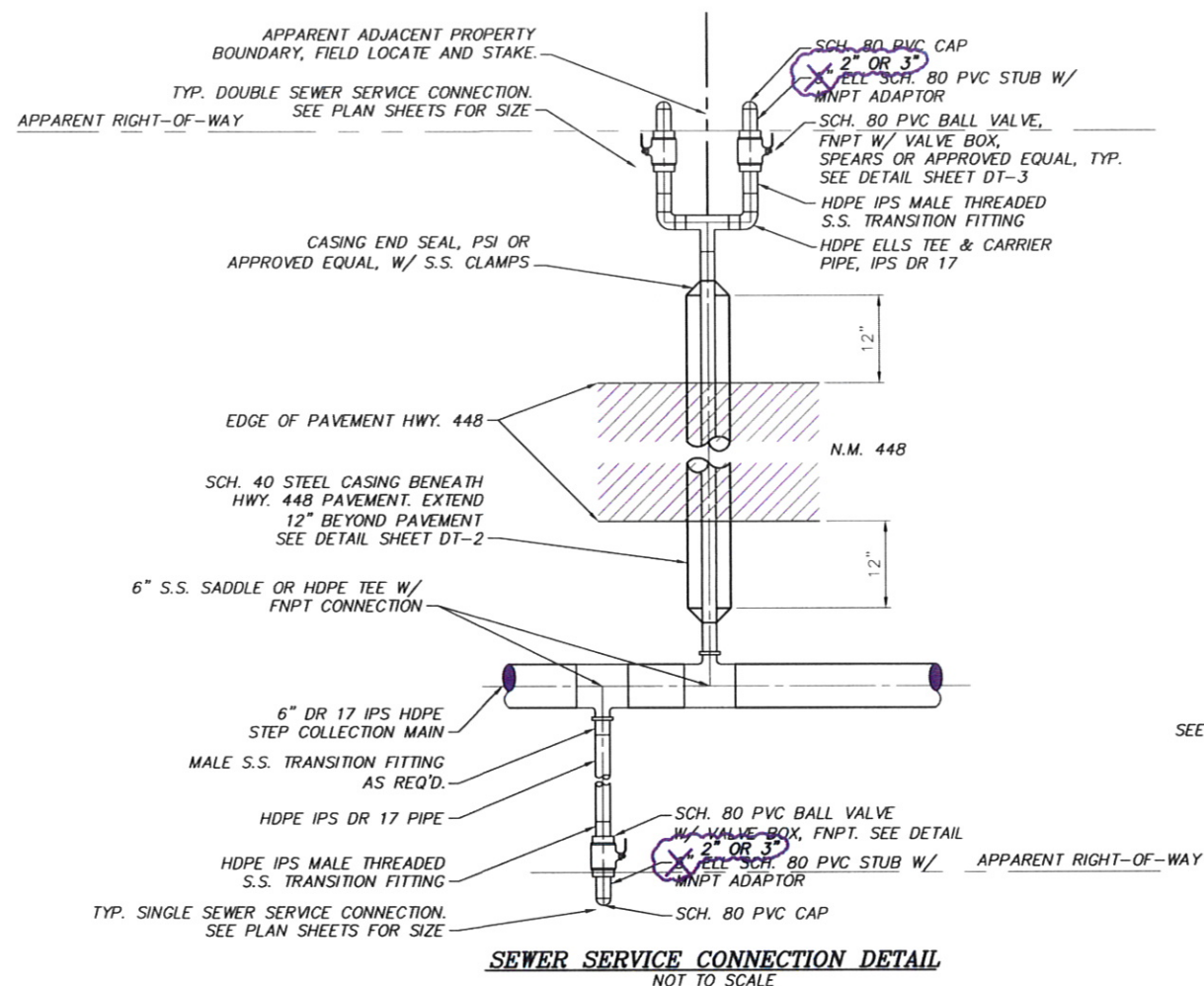
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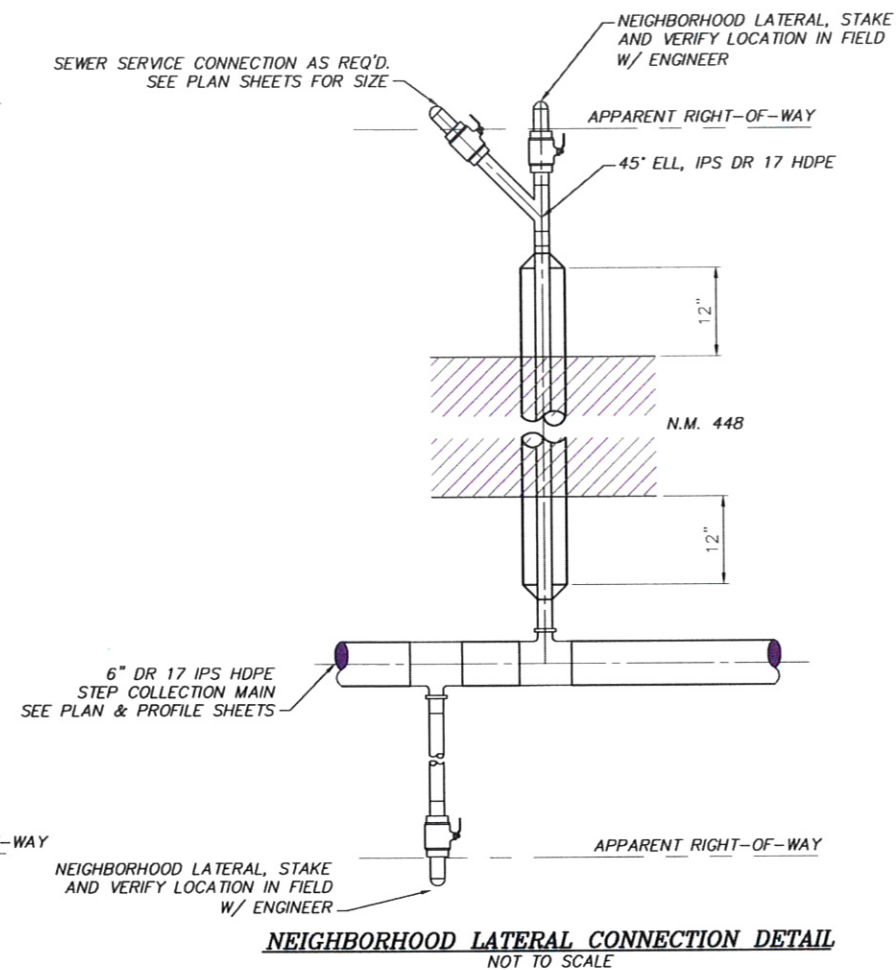
VALVE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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DT-3



NOTES:
 1. STOP SERVICE CONNECTIONS AT APPARENT EDGE OF PROPERTY/ROW
 2. CONFIRM ALL SERVICE LOCATIONS IN THE FIELD W/ ENGINEER.



NOTE:
 DETAILS SIMILAR TO SEWER SERVICE CONNECTION DETAILS.

P:\6-CORRALES WW (8417298)\DRAFTING\AS-BUILT\8417298_DETAILS-REC.DWG

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SMA/MS	3-4-10	AS-BUILT, EDIT TEXT

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SERVICE CONNECTION DETAILS
 PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
 CORRALES, NEW MEXICO

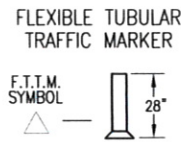
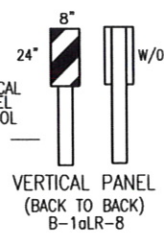
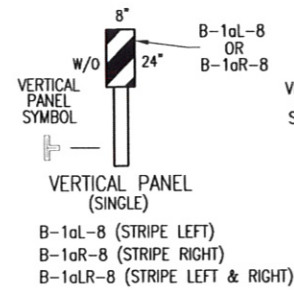
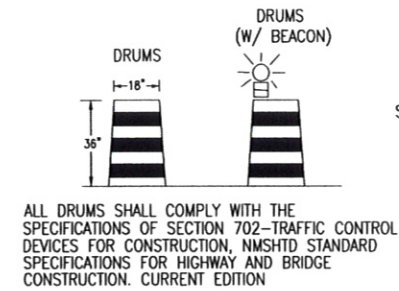
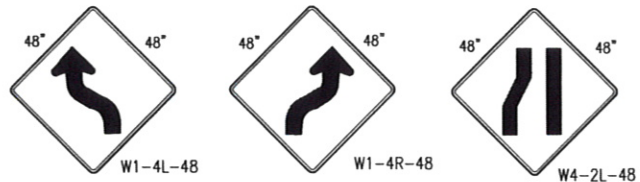
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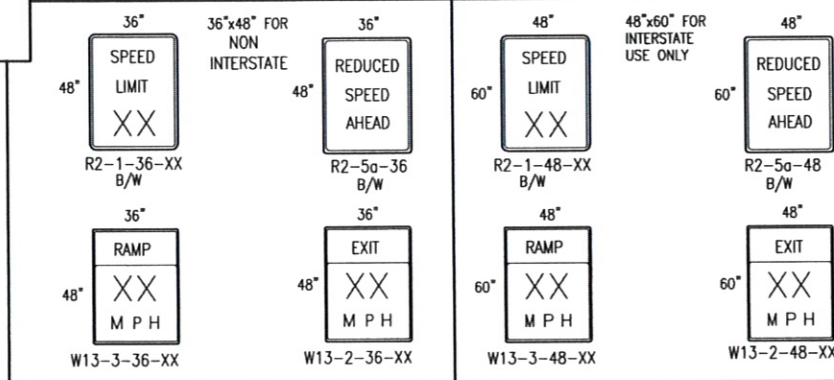
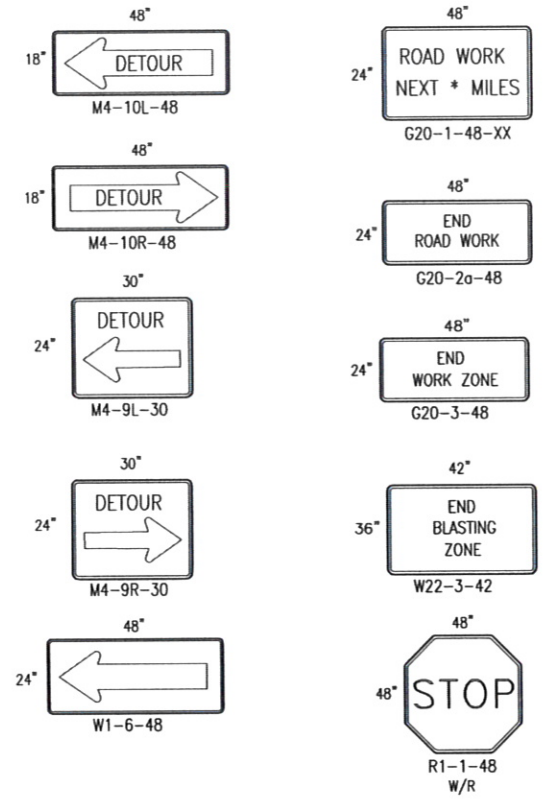
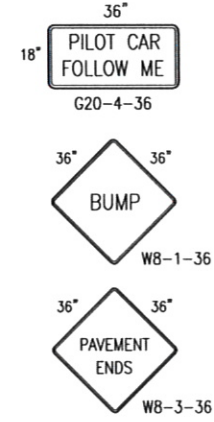
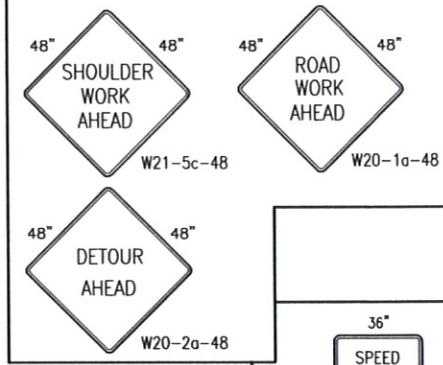
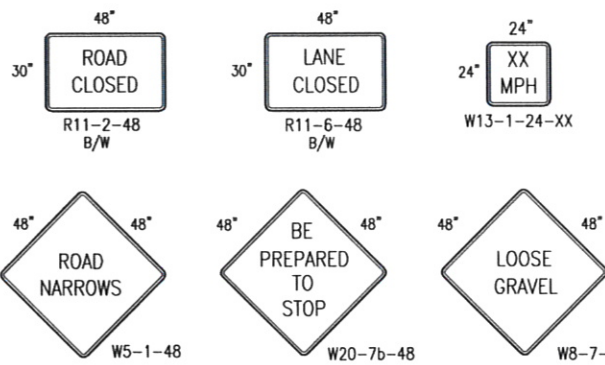
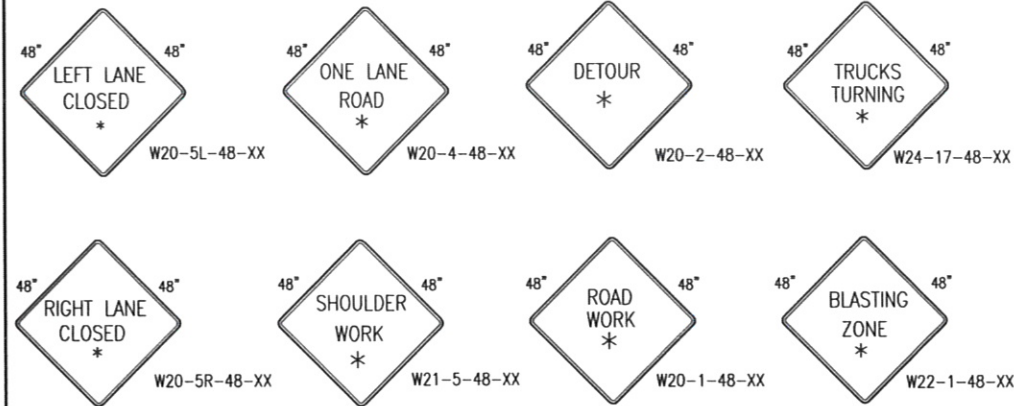
SIGN FACE DETAILS FOR CONSTRUCTION/MAINTENANCE

ALL SIGNS ARE BLACK ON ORANGE
UNLESS OTHERWISE SPECIFIED

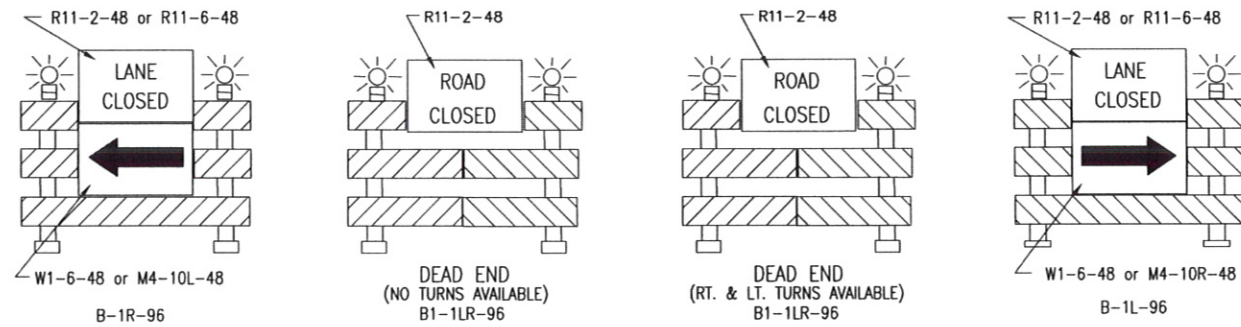
EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE
STANDARD HIGHWAY SIGNS MANUAL (CURRENT EDITION) FOR PROPER ARRANGEMENT
AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND
BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON THE PLANS.



THESE SIGNS REQUIRE APPROPRIATE DISTANCE
INDICATION (1 1/2 MILE, 1 MILE, 1/2 MILE, 1500 FT., 750 FT., 500 FT., 350 FT.)



8 FT. TYPE III BARRICADES (BARRICADE SYMBOL)



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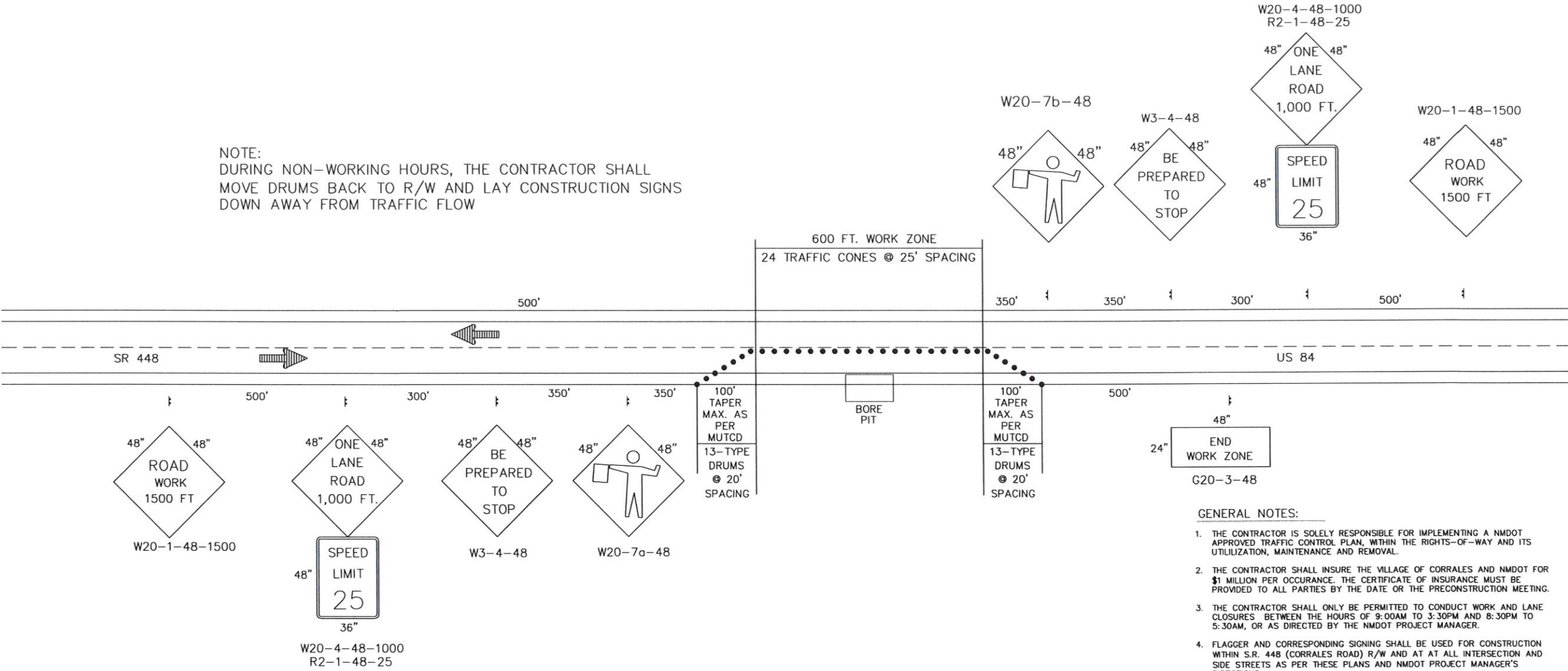
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STANDARD NMDOT TRAFFIC CONTROL SIGN FACE DETAILS
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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NOTE:
DURING NON-WORKING HOURS, THE CONTRACTOR SHALL
MOVE DRUMS BACK TO R/W AND LAY CONSTRUCTION SIGNS
DOWN AWAY FROM TRAFFIC FLOW



TYPICAL TRAFFIC CONE PLACEMENT-SR448
ONE LANE CLOSURE (LEFT OR RIGHT), BORING PARALLEL

TRAFFIC CONE NO. 702530
TOTAL OF 50 CONES REQUIRED

GENERAL NOTES:

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR IMPLEMENTING A NMDOT APPROVED TRAFFIC CONTROL PLAN, WITHIN THE RIGHTS-OF-WAY AND ITS UTILIZATION, MAINTENANCE AND REMOVAL.
2. THE CONTRACTOR SHALL INSURE THE VILLAGE OF CORRALES AND NMDOT FOR \$1 MILLION PER OCCURRENCE. THE CERTIFICATE OF INSURANCE MUST BE PROVIDED TO ALL PARTIES BY THE DATE OF THE PRECONSTRUCTION MEETING.
3. THE CONTRACTOR SHALL ONLY BE PERMITTED TO CONDUCT WORK AND LANE CLOSURES BETWEEN THE HOURS OF 9:00AM TO 3:30PM AND 8:30PM TO 5:30AM, OR AS DIRECTED BY THE NMDOT PROJECT MANAGER.
4. FLAGGER AND CORRESPONDING SIGNING SHALL BE USED FOR CONSTRUCTION WITHIN S.R. 448 (CORRALES ROAD) R/W AND AT ALL INTERSECTION AND SIDE STREETS AS PER THESE PLANS AND NMDOT PROJECT MANAGER'S DIRECTIONS.
5. ALL FLAGGERS SHALL BE CERTIFIED.
6. ALL FLAGGING STATIONS FOR NIGHT OPERATIONS SHALL BE LIGHTED AS PER MUTCD.
7. SHOULDER WORK CONSTRUCTION SHALL BE RESTRICTED TO ONE SIDE AT A TIME. THE CONTRACTOR SHALL SET TRAFFIC CONTROL DEVICES TO DEFINE WORK ZONE AT THE BEGINNING OF EACH WORK DAY PERIOD.
8. TRENCH OPEN WITHIN 6 FT. OF TRAVEL LANE REQUIRES LANE CLOSURE.
9. TRENCHING ACROSS ROAD SHALL BE ONE LANE AT A TIME. AT THE END OF THE DAILY WORKING PERIOD, THE CONTRACTOR SHALL REOPEN ROAD TO TWO WAY TRAFFIC.
10. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL DRIVEWAYS AND TURNOUTS AT ALL TIMES.
11. MAXIMUM DRUM SPACING ON TANGENT SECTION SHALL BE 25' SPACING.
12. CONTRACTOR SHALL PROVIDE SIGNBOARDS AT MEADOWLARK LANE AND OLD CHURCH ROAD FOR DURATION OF PROJECT TO DESIGNATE DETOUR ROUTE AROUND PROJECT AREA.

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TRAFFIC CONTROL PLAN
PHASE 1 BUSINESS CORE WASTEWATER COLLECTION SYSTEM
CORRALES, NEW MEXICO

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SHEET
TC-2

UTAH

COLORADO

OKLAHOMA

TEXAS

ARIZONA


MEXICO

PROJECT LOCATION

CORRALES

Map showing the project location in the Rio Grande region, near the border of New Mexico and Texas. The map includes major cities and towns such as Las Cruces, El Paso, San Antonio, and Albuquerque. The Rio Grande is shown flowing through the region, and the project area is highlighted near the border. A north arrow is present in the top right corner.

Index of Sheets	
Sheet Number	Sheet Title
G-1	COVER AND PROJECT MAP
G-2	GENERAL NOTES AND LEGEND
G-3	DESIGN CALCULATIONS
C-1	KEY MAP
C-2	SURVEY CONTROL POINTS
C-3	PLAN & PROFILE STA. -0+50 TO STA. 5+00
C-4	PLAN & PROFILE STA. 5+00 TO STA. 10+00
C-5	PLAN & PROFILE STA. 10+00 TO STA. 15+00
C-6	PLAN & PROFILE STA. 15+00 TO STA. 20+00
C-7	PLAN & PROFILE STA. 20+00 TO STA. 25+00
C-8	PLAN & PROFILE STA. 25+00 TO STA. 30+00
C-9	PLAN & PROFILE STA. 30+00 TO STA. 35+00
C-10	PLAN & PROFILE STA. 35+00 TO STA. 40+00
C-11	PLAN & PROFILE STA. 40+00 TO STA. 45+00
C-12	PLAN & PROFILE STA. 45+00 TO STA. 50+00
C-13	PLAN & PROFILE STA. 50+00 TO STA. 55+00
C-14	PLAN & PROFILE STA. 55+00 TO STA. 60+00
C-15	PLAN & PROFILE STA. 60+00 TO STA. 65+00
C-16	PLAN & PROFILE STA. 65+00 TO STA. 70+00
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C-18	PLAN & PROFILE STA. 75+00 TO STA. 80+00
C-19	PLAN & PROFILE STA. 80+00 TO STA. 85+00
C-20	PLAN & PROFILE STA. 85+00 TO STA. 90+25
C-21	PLAN & PROFILE STA. 90+25 TO STA. 94+24
DT-1	MANHOLE DETAILS
DT-2	MISCELLANEOUS DETAILS
DT-3	VALVE AND SERVICE CONNECTION DETAILS
DT-4	MAGMETER VAULT DETAILS
17	ELECTRICAL
	ABCWUA MINI WORK ORDER

 <p>SMA Engineering Environmental Surveying</p>	<p>SOUDER, MILLER & ASSOCIATES 3451 LAKE AVENUE, SUITE 100 CARLINVILLE, ILL. 60010 Phone: (630) 290-0942 Fax: (630) 293-2430 www.soudermiller.com</p>		<p>CLIENT: VILLAGE OF CORRALES</p>	<p>Revision</p>	<p>Date</p>	<p>Description</p>	<p>By</p>	<p>CHKD</p>
	<p>Project No: G-17098</p>		<p>COVER AND PROJECT MAP PHASE 2 & 3 BUSINESS CORE WASTEWATER TRANSMISSION LINE VILLAGE OF CORRALES, NEW MEXICO</p>					
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p>			<p>Date: August 2012</p>	<p>Scale: AS SHOWN</p>	<p>Project No: G-17098</p>	<p>Sheet: G-1</p>		

GENERAL NOTES

- | | |
|--|---|
| <p>3. THERE WILL BE A PERSON OR PERSONS (HEREINAFTER KNOWN AS THE OWNER'S REPRESENTATIVE) CHOSEN BY THE VILLAGE OF CORRALES (HEREINAFTER KNOWN AS THE OWNER) TO ACT AS A CONTACT PERSON BETWEEN THE OWNER AND THE ENGINEER. THE OWNER'S REPRESENTATIVE WILL OBSERVE, AND PROVIDE INFORMATION, AND PROVIDE CRITICAL LOCATIONS THROUGH THE ENGINEER TO THE CONTRACTOR IN THE FIELD.</p> <p>4. THE ENGINEER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON, PROVIDED BY THE ENGINEER THAT WILL ACT AS A RESIDENT INSPECTOR WHO WILL BE THE CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.</p> <p>5. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.</p> <p>6. WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN OR IN THE PROJECT SPECIFICATIONS, THE CURRENT EDITION OF NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED.</p> <p>7. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.</p> <p>8. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE ENGINEER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT PUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.</p> <p>9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES, ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICES ON VARIOUS BID ITEMS.</p> <p>10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO APPLICABLE CURRENT NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC) ANWWA SPECS, AND NMED SPECS AND REGULATIONS, UNLESS OTHERWISE NOTED.</p> <p>11. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING BUILDING PERMITS, UTILITY BORE PERMITS, NMDOT, CITY OF ALBUQUERQUE, AND ANY OTHER, WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE ENGINEER.</p> <p>12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE OWNER AND ENGINEER.</p> <p>13. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION. SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPER OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING CONSTRUCTION.</p> <p>14. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE EQUIPMENT IN THE CONSTRUCTION ZONE DURING NON-WORKING HOURS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A STORAGE AREA(S) FOR THIS PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR SITE SECURITY.</p> <p>15. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 1-800-321-ALERT, AND ALL LOCAL UTILITY PROVIDERS THREE (3) DAYS BEFORE STARTING UTILITY CONSTRUCTION.</p> <p>16. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP ANY EXISTING SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT ANY UTILITY SHUT-OFFS OF ANY OR ALL CONNECTIONS TO THE OWNER'S REPRESENTATIVE TWENTY-FOUR (24), OR MORE, HOURS IN ADVANCE OF THE SHUT-OFFS. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.</p> <p>17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION. NO DIRECT PAYMENT WILL BE MADE FOR WATER, ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.</p> <p>18. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCRoACH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.</p> <p>19. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PREVENT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK". FOR MORE INFORMATION CONTACT NGS MARK PRESERVATION CENTER, NOAA (505) 768-3606.</p> | <p>20. CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING STRUCTURES FREE OF DUST AND/OR CONSTRUCTION DEBRIS AT ALL TIMES DURING THE EXECUTION OF THE PROJECT. ALL EXISTING AND NEW STRUCTURES SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. ALL COSTS RELATED TO THIS ITEM SHALL BE INCIDENTAL TO THE WORK AND NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR.</p> <p>21. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.</p> <p>22. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.</p> <p>23. AS REQUIRED, NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE OWNER'S APPROVAL. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL HAVE NO ADVERSE EFFECT UPON ADJACENT PROPERTIES OR PUBLIC ROADWAYS.</p> <p>24. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. AS EXPECTED DISTURBANCE IS <1AC, A SWPPP IS NOT REQUIRED FOR THIS PROJECT. IN THE EVENT THAT 1 ACRES OF EARTH OR MORE ARE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUBMIT A STORM WATER POLLUTION PREVENTION PLAN TO THE OWNER AND ENGINEER. THE PLAN WILL ADDRESS ALL CONSTRUCTION PHASES AND THE PROPOSED POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES. THIS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENT FOR ALL CONSTRUCTION ACTIVITIES.</p> <p>25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>26. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK. THE OWNER'S ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TWO (2) SETS OF COMPLETE AS-BUILT DRAWINGS TO THE ENGINEER.</p> <p>27. CONTRACTOR SHALL SUBMIT ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE ENGINEER NO LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.</p> <p>28. ANY UTILITIES FOR THIS PROJECT SHALL BE INSTALLED TO THE MINIMUM COVER AS SHOWN ON THE CONSTRUCTION DRAWINGS, THIS INCLUDES ANY CROSSING SERVICES OR LATERALS INSTALLED. EXCEPTIONS MUST BE AUTHORIZED BY THE ENGINEER.</p> <p>29. ALL INSTALLED UTILITY MANH, LATERALS, AND SERVICES SHALL BE MARKED WITH TRACER WIRE TAPED TO TOP OF PIPE AND DETECTABLE WARNING TAPE WHERE APPLICABLE AT LEAST EIGHTEEN (18) INCHES ABOVE BURIED PIPE, AS PER SPECIFICATIONS AND THESE DRAWINGS.</p> <p>30. ALL INSTALLED OR OPENED WATERLINES & MATERIALS SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.</p> <p>31. ALL BEDDING MATERIAL SHALL BE GRANULAR AND FREE-DRAINING, HAVE A MAXIMUM GRAIN SIZE THAT DOES NOT EXCEED 3/8 INCH, AND BE ACCEPTABLE TO THE ENGINEER.</p> <p>32. OVER-EXCAVATION OF TRENCHES SHALL NOT BE PERFORMED UNLESS IT IS DETERMINED, TO THE SATISFACTION OF THE ENGINEER THAT THE SUBSOIL IS NOT SUITABLE FOR PIPE BEDDING AND MUST BE REPLACED WITH IMPORTED FILL. OVER-EXCAVATION PERFORMED UNNECESSARILY BY THE CONTRACTOR SHALL BE REMEDIED WITH CLASSIFIED FILL AND COMPACTION AS REQUIRED BY THE SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE.</p> <p>33. PADDING AND BACK FILL MATERIAL, IF REQUIRED, SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE. SEPARATE PAYMENT WILL NOT BE MADE FOR PADDING AND BACK FILL MATERIAL OR HAUL. ALL PADDING AND BACK FILL MATERIAL OR HAUL SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS WORK ITEMS. THE CONTRACTOR SHALL SECURE A SUITABLE PADDING AND BACK FILL MATERIAL PIT IF MATERIAL IS REQUIRED TO COMPLETE THE PROJECT. BACKFILL SHALL MEET AN R FACTOR OF 50 AND NMDOT SPECIFICATIONS FOR CORRALES RD. AND ALAMEDA BLVD., AND CITY OF ALBUQUERQUE SPECIFICATIONS FOR COORS BLVD.</p> <p>34. BACK FILL DENSITY TESTS SHALL BE PERFORMED HORIZONTALLY FOR EACH 1000 LINEAR FEET OF PIPELINE, OR ANY STRUCTURE THAT REQUIRES COMPACTED FOUNDATION OR CONTROLLED BACK FILL. ADDITIONAL COMPACTION TESTS SHALL ALSO BE TAKEN EVERY 3 VERTICAL FEET OF BACK FILL.</p> <p>35. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER AND ENGINEER. RESEEDING IS NOT REQUIRED FOR THIS PROJECT.</p> <p>36. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.</p> <p>37. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. THE DISPOSAL SITE FOR EXCESS MATERIAL MUST BE APPROVED BY THE PROJECT MANAGER AND ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE A DISPOSAL</p> |
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ABBREVIATIONS

AWWA	AMERICAN WATER WORKS ASSOCIATION
CBC	CONCRETE BOX CULVERT
C or CL	CENTERLINE
CI	CAST IRON
CO	CLEANOUT
CMP	CORRUGATED METAL PIPE
D.I.	DUCTILE IRON
DIA.	DIAMETER
E.G.	FOR EXAMPLE
EXIST.	EXISTING
FIG.	FIGURE
FL	FLANGE
FNPT	FEMALE NATIONAL PIPE THREAD
GALV.	GALVANIZED
HDPE	HIGH DENSITY POLYETHYLENE PIPE
I.D.	INNER DIAMETER
LF	LINEAR FEET
MAX.	MAXIMUM
mA	MILLIAMPERE (ONE THOUSANDTH OF AN AMP)
MIN.	MINIMUM
M.J.	MECHANICAL JOINT
M.H.	MANHOLE
MRGCD	MIDDLE RIO GRANDE CONSERVANCY DISTRICT
NMED	NEW MEXICO ENVIRONMENT DEPARTMENT
NTS	NOT TO SCALE
O.D.	OUTER DIAMETER
PE	POLYETHYLENE
psi	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SCH.	SCHEDULE
SPECS	SPECIFICATIONS
STD.	STANDARD
USBOR	UNITED STATES BUREAU OF RECLAMATION

LEGEND

	EXISTING FENCE (WIRE, WOOD, ETC.)
	EXISTING CHAIN LINK FENCE
	EXISTING WATERLINE W/ VALVE
	EXISTING SANITARY SEWER LINE W/ MH
	EXISTING OVERHEAD ELECTRIC, W/ POLE & GUY WIRE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING OVERHEAD TELEPHONE LINE
	EXISTING UNDERGROUND TELEPHONE LINE W/ PEDESTAL OR MH
	EXISTING GAS LINE W/ METER
	EXISTING UNDERGROUND CABLE TV W/ PEDESTAL
	EXISTING UNDERGROUND FIBER OPTIC LINE
	EXISTING GUARDRAIL
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WELL
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING MONITOR WELL
	EXISTING MAILBOX
	EXISTING ELECTRIC METER
	EXISTING SIGN
	SURVEY CONTROL POINT OR BENCHMARK
	NEW 8" HDPE PIPE
	NEW 3" HDPE PIPE (LATERALS)
	NEW HDPE REDUCER
	HDPE CAP & STUB
	NEW BALL VALVE
	NEW AIR RELEASE VALVE
	NEW SEWER CLEANOUT
	SINGLE WW SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	DOUBLE WW SINGLE SERVICE LINE, DIAMETER IN INCHES AS INDICATED
	PAVED ROAD
	RIGHT-OF-WAY (ROW)

PROJECT SPECIFIC NOTES

1. THE 8" HDPE STEP COLLECTION TRANSMISSION PIPE MAIN SHALL BE INSTALLED BY DIRECTIONAL DRILLING.
2. ANY 2" AND 3" SYSTEM LATERALS AND SERVICE CONNECTIONS SHALL BE INSTALLED BY OPEN TRENCH METHOD. STEEL CASING IS REQUIRED FOR ALL PIPING BENEATH CORRALES ROAD (STATE HIGHWAY 448).
3. HOURS OF CONSTRUCTION FOR CORRALES ROAD AND COORS BLVD. ARE LIMITED TO WEEKDAYS FROM 9:00 AM TO 3:30 PM AND 8:30 PM TO 5:30 AM PER THE NMDOT DISTRICT 3 TRAFFIC ENGINEER, ALAMEDA BLVD. HOURS OF CONSTRUCTION ARE LIMITED TO 8:30 PM TO 5:30 AM.
4. SINGLE LANE ACCESS MUST BE AVAILABLE AT ALL TIMES ON CORRALES ROAD (STATE HIGHWAY 448).
5. ACCESS IMPACTS TO ALL PROPERTIES AND ROADS INTERSECTING CORRALES ROAD (STATE HIGHWAY 448) SHALL BE MINIMIZED.


RECORD DRAWING

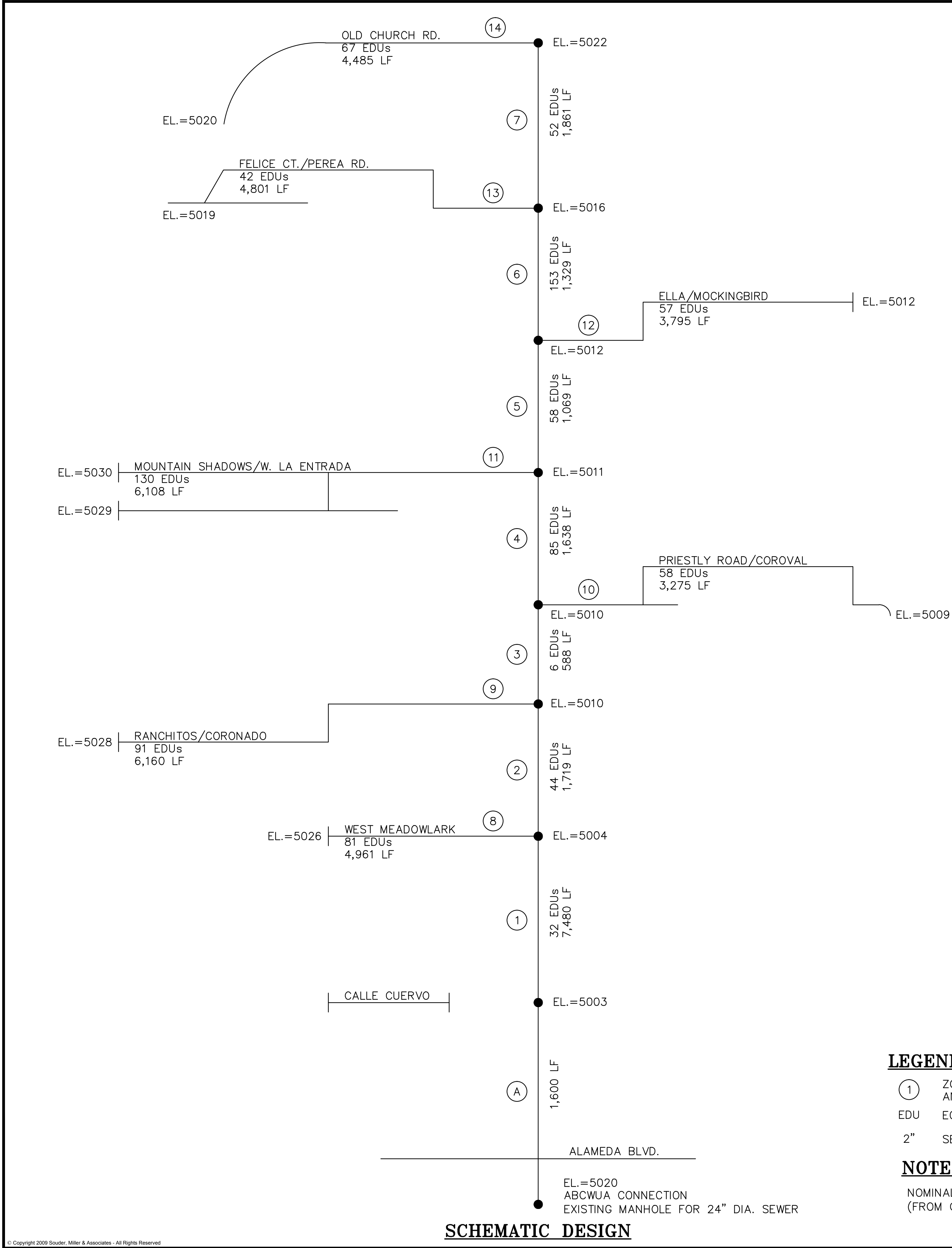
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DATE ENGINEER



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 <p>SOUDER, MILLER & ASSOCIATES 3451 CANDELABRA ROAD, SUITE D ALBUQUERQUE, NM 87107</p> <p>Phone (505) 299-0942, Toll-Free (877) 299-0942, Fax (505) 293-4430 www.soudermiller.com</p> <p>Serving the Southwest & Rocky Mountains Albuquerque, Farmington, Las Cruces, Roswell, Santa Fe, NM - El Paso, TX Colorado, Grand Junction - Montrose, CO - Salt Lake City, Monticello, UT</p>			<p>CLIENT: VILLAGE OF CORRALES</p> <p>GENERAL NOTES AND LEGEND</p> <p>PHASE 2 & 3 BUSINESS CORE</p> <p>WASTEWATER TRANSMISSION LINE</p> <p>VILLAGE OF CORRALES, NEW MEXICO</p>					Revision	Date	Description	By	Chk'd
			1	08-11	REVISE DATE RE-SIGN AND SEAL	MLS	JAM					
Drawn OGM	Checked JAM	Approved JAM										
<p>THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED</p> <p>Date: August 2012</p> <p>Scale: Horiz: NO SCALE Vert:</p> <p>Project No: 64177098</p> <p>Sheet: G-2</p>												



DESIGN CALCULATIONS

STEP SEWER COLLECTION MAIN and LATERAL DESIGN

Business Core WW Collection/Transmission - Phases 1, 2 & 3
Village of Corrales, NM
7/19/2011 JAM

Zone No.	Zone Description	EDUs	Cumulative EDUs	Zone Flow Q (gpm)	Cumulative Zone Flow Q (gpm)	Pipe Length (ft.)	Pipe O.D. (in.)	Pipe I.D. (in.)	Start Elev. (ft. MSL)	End Elev. (ft. MSL)	Slope (%)	Zone headloss (psi)	System headloss (psi)	V Zone (fps)
Collection/Transmission Main														
A-1	Magmeter Vault	0	956	0	478	16	6.625	5.799	5020	5013	43.75%	5.68	73.54	5.81
A	ABCWUA - Calle Cuervo	0	956	0	478	1,600	8.625	7.549	5020	5003	1.06%	13.00	67.86	3.43
1	Calle Cuervo - Meadowlark Lane	32	956	16	478	7,480	8.625	7.549	5003	5008	-0.07%	15.89	54.86	3.43
2	Meadowlark Lane - Coronado	44	924	22	462	1,719	6.625	5.58	5008	5010	-0.12%	19.92	38.98	6.06
3	Coronado - Coroval	6	880	3	354	588	6.625	5.58	5010	5010	0.00%	3.60	19.06	4.64
4	Coroval - W. La Entrada	85	874	43	322	1,638	6.625	5.58	5010	5011	-0.06%	10.67	15.46	4.22
5	W. La Entrada - Ella/Mockingbird	58	789	29	214	1,089	6.625	5.58	5011	5012	-0.09%	3.60	4.79	2.81
6	Ella / Mockingbird - Perea	153	731	76	157	1,329	6.625	5.58	5012	5014	-0.15%	1.51	1.19	2.06
7	Perea-Old Church	52	578	26	59	1,861	6.625	5.58	5016	5018	-0.11%	-0.32	-0.32	0.78
Neighborhood Laterals														
8	W. Meadowlark	81	526	41	41	4,961	3.500	3.064	5008	5026	-0.36%	4		1.76
9	Ranchitos/Coronado	91	445	46	46	6,160	3.500	3.064	5010	5028	-0.29%	10		1.98
10	Priestly/Coroval	58	354	29	29	3,275	2.375	2.079	5010	5009	0.03%	27		2.74
11	Mt. Shadows / W. La Entrada	130	296	65	65	6,108	3.500	3.064	5011	5030	-0.31%	31		2.83
12	Ella / Mockingbird	57	166	29	29	3,795	2.375	2.079	5012	5012	0.00%	29		2.69
13	Felice / Perea	42	109	21	21	4,801	2.375	2.079	5016	5019	-0.06%	18		1.98
14	Old Church Rd - Mama Rd	67	67	34	34	4,485	3.500	3.064	5018	5020	-0.04%	7		1.46

Notes: 1) Qdesign: 0.5 gpm/EDU (Small and Decentralized Wastewater Management Systems, Crites & Tchobanoglous, 1998)
2) DR 17 (100 psi) HDPE Pipe

HMED Liquid Waste Average Flows					Total (gpd)	EDUs
Occupancy	gpd	Unit	No. Units			
Small office (OFF)	20	employee	10		200	1
Large office (LOFF)	20	employee	30		600	3
Restaurant	40	seat	100		4,000	20

HMED WW Discharge Permits	gpd	gph	gpm	Peak (3x)	
Village Pizza	5,000	417	7	21	(12 hour day)
Corrales Community Center	1,200	100	2	5	(12 hour day)
Corrales Municipal Complex	2,080	173	3	9	(12 hour day)
Corrales Elementary School	13,300	1,663	28	83	(8 hour day)
Rancho de Corrales Restaurant	750	63	1	3	(12 hour day)

EDU Calculations		200 gpd per EDU One EDU = 200 gpd (average residence or small office)					
EDUs		Small Off./ Residence	Large Office	Permitted Facility	Exist./Future Restaurant	Total gpd	EDUs
	Permitted or Prescriptive GPD Flow	200	600	varies	4,000		
Zone No.	Zone Description						
1	Meadowlark Lane to Calle de Cuervo	20	4				
		4,000	2,400			6,400	32
2	Meadowlark Lane to Coronado	9	5		1		
		1,800	3,000		4,000	8,800	44
3	Coronado to Coroval		2			1,200	6
			1,200				
4	Coroval to W. La Entrada	6	8	2	2		
		1,200	1,600	6,200	8,000	17,000	85
5	W. La Entrada to Ella (Mockingbird)	10	6	1	1		
		2,000	3,600	2,080	4,000	11,680	58
6	Ella (Mockingbird) to Perea	6	4	1	4		
		1,200		13,300	16,000	30,500	153
7	Perea to Old Church	13	5	1	1		
		2,600	3,000	750	4,000	10,350	52
8	W. Meadowlark	81					
		16,200				16,200	81
9	Ranchitos/Coronado	91					
		18,200				18,200	91
10	Priestly / Coroval	58					
		11,600				11,600	58
11	Mt. Shadows/W. La Entrada	130					
		26,000				26,000	130
12	Ella / Mockingbird	57					
		11,400				11,400	57
13	Felice / Perea	42					
		8,400				8,400	42
14	Old Church Rd to Mama Rd	67					
		13,400				13,400	67
						Total EDUs	956
						Total gpd	191,130

RECORD DRAWING

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- ① ZONES FOR CALCULATION AND DESIGN
- EDU EQUIVALENT DWELLING UNIT
- 2" SERVICE LINE DIAMETER

NOTES

NOMINAL DISTANCE AND ELEVATIONS (FROM GOOGLE EARTH, CURRENT SURVEYS SIMILAR)

CLIENT: VILLAGE OF CORRALES

DESIGN CALCULATIONS
PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO

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Scale: Horiz: NONE
Vert:

Project No: 6417098

Sheet: G-3

Drawn
OGM

Checked
JAM

Approved
JAM

P:\6-Corrales WW (6417098)\Phase 2 Wastewater Transmission\RECORD\MISCELLANEOUS DETAILS.dwg 11/20/2012 6:59:29 PM ogm

Survey Control Points: Corrales				
New Mexico State Plane Coordinates, Central Zone, NAD 83				
Combined Ground-to-Grid Factor: 0.9996799				
Elevations: NAVD 1988				
Description	Northing	Easting	Elevation	Location
ACS 6-A14	1,534,611.07'	1,524,030.52'	5002.022'	S. side of Applewood Rd., 0.5 miles W. of Corrales Road
ACS 8-B14	1,528,602.96'	1,521,096.79'	5025.358'	SW Quadrant of Coors Rd. & Old Airport Ave. NW
ACS 7-A14	Elevation only		5004.501'	SW Quadrant of Corrales Rd. & Cabezon Rd. NW

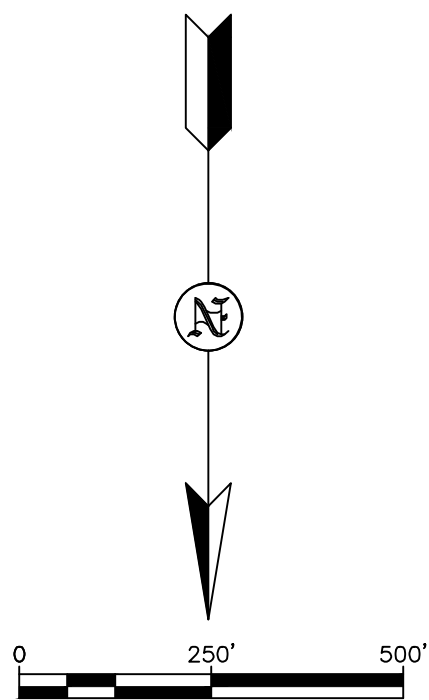
Additional Survey Points: Corrales				
Description	Northing	Easting	Elevation	Location
B/CAP 46-3 CP-6	1,534,486.87'	1,527,499.04'	5003.970'	Brass Cap, on N. side of Corrales Rd on W. side of private road
RBRPC LS 11452	1,533,767.96'	1,526,784.48'	5002.157'	Prop. Cor., Las Brisas de Corrales, Lots 1 & 2, S. side of Corrales Rd.
FD spike prop cor	1,531,530.80'	1,524,498.97'	5002.017'	Found Prop. Cor., Cadillo Acres, S. side of Corrales Rd.
FD 2" Pipe	1,531,001.85'	1,523,231.84'	5005.668'	Found pipe, NE intersection of Cabezon Rd. & Corrales Rd.
FD	1,531,197.13'	1,523,940.60'	5004.345'	Found survey marker, near intersection W. side San Mateo Drain ROW & Corrales Acequia ROW
FD 1" pipe	1,531,388.88'	1,524,160.49'	5005.201'	Found pipe W side of Uva Rd. near fence corner


TRANSMISSION LINE MAIN LAYOUT SURVEY CONTROL					
No.	Station	Northing	Easting	Elevation	Full Description
1	0+00	1534594.8730'	1528237.0980'	5003.800'	HZ CONTROL
2	1+00	1534500.2371'	1527746.5534'	5003.161'	HZ CONTROL
3	5+00	1534292.9153'	1527300.9937'	5002.495'	HZ CONTROL
4	10+00	1533937.5120'	1526949.3308'	5002.406'	HZ CONTROL
5	15+00	1533584.4040'	1526595.3839'	5001.578'	HZ CONTROL
6	20+00	1533232.0556'	1526240.6215'	5001.458'	HZ CONTROL
7	25+00	1532881.1353'	1525884.4804'	5001.543'	HZ CONTROL
8	30+00	1532526.7363'	1525531.7982'	5002.004'	HZ CONTROL
9	35+00	1532174.5487'	1525176.9121'	5001.308'	HZ CONTROL
10	40+00	1531828.6944'	1524815.8555'	5002.108'	HZ CONTROL
11	45+00	1531489.2811'	1524443.7593'	5001.640'	HZ CONTROL
12	50+00	1531157.9138'	1524074.4972'	5002.567'	HZ CONTROL
13	60+00	1530975.3759'	1523631.8967'	5005.223'	HZ CONTROL
14	65+00	1530933.4589'	1523134.7519'	5004.155'	HZ CONTROL
15	70+00	1530717.4590'	15230717.4590'	5006.205'	HZ CONTROL
16	74+00	1530435.9693'	1522409.3566'	5009.058'	HZ CONTROL



SURVEY CONTROL

Project control is based on City of Albuquerque Control Station Data points ACS 6-A14, ACS 7-A14 and ACS 8-B14. Coordinates are New Mexico State Plane Coordinates, Central Zone, NAD 83, that can be adjusted to obtain modified surface coordinates by dividing coordinates by the combined factor of 0.9996799. Elevations are NAVD 1988.



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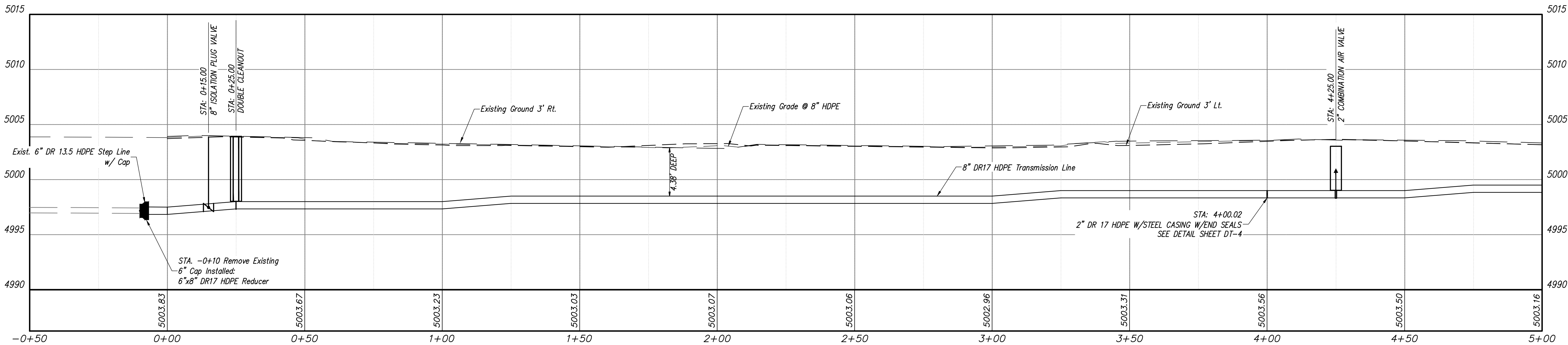


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Check

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PLAN & PROFILE STA. -0+50 TO STA. 5+00
PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO



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Sheet: C-3

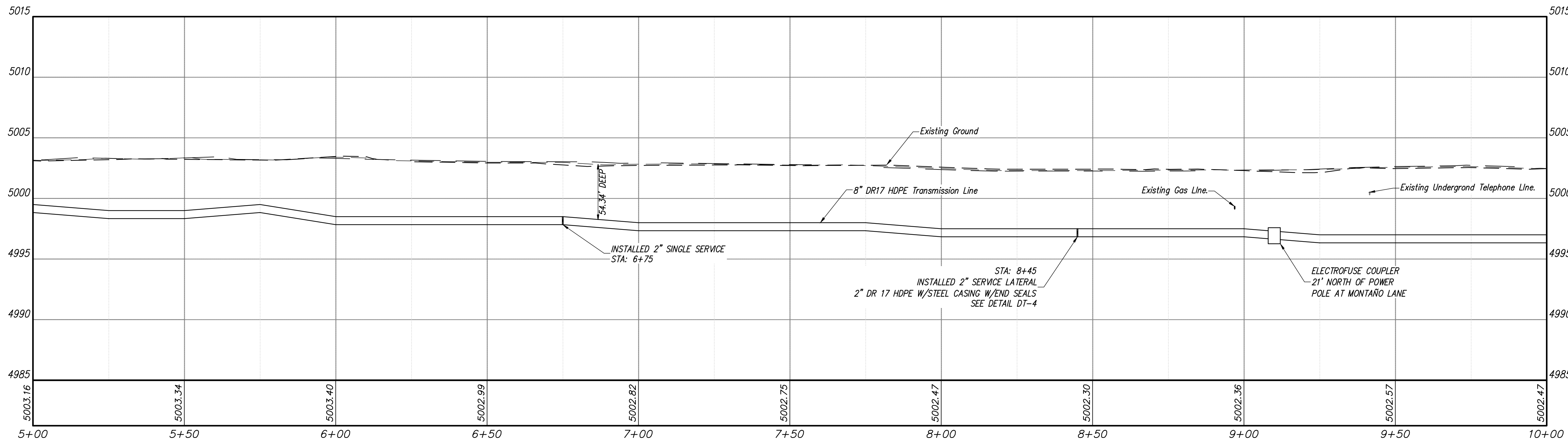


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Chkd

CLIENT: VILLAGE OF CORRALES
PLAN & PROFILE STA. 5+00 TO STA. 10+00
PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
VILLAGE OF CORRALES, NEW MEXICO

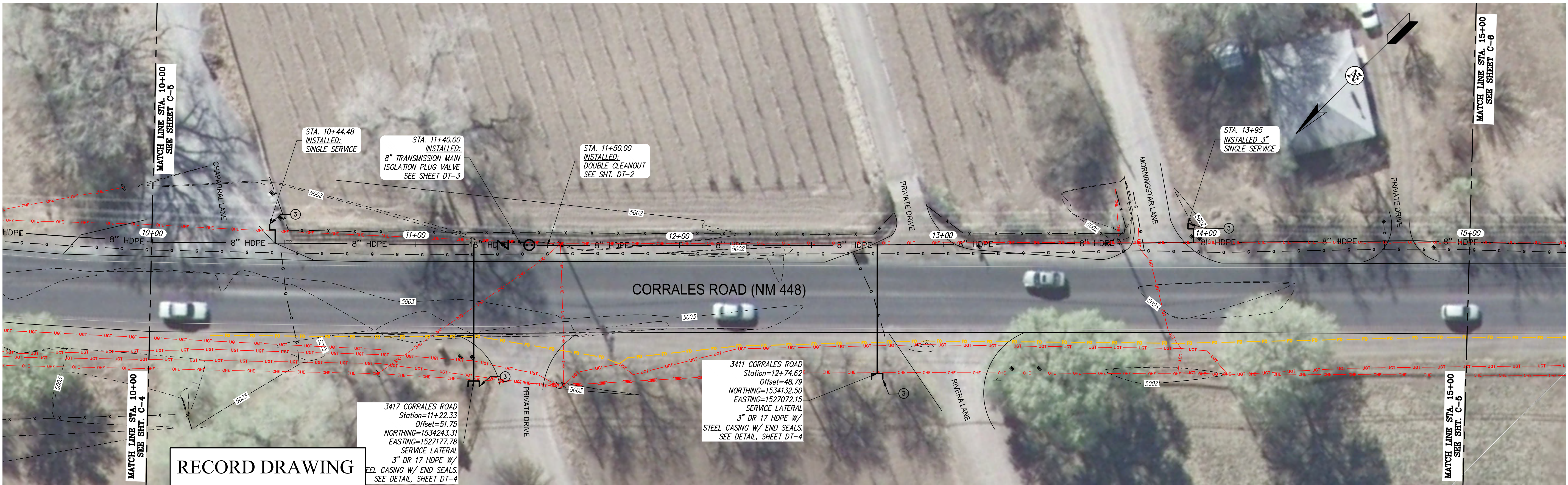
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Project No: 6417098

Sheet: C-4

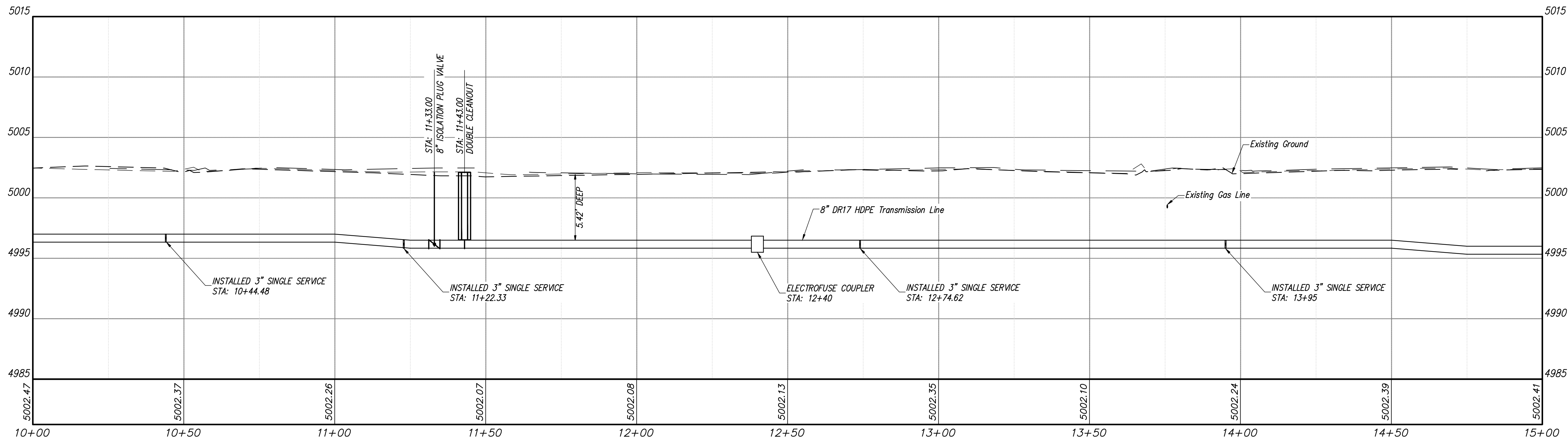


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Check

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PHASE 2 & 3 BUSINESS CORE
WASTEWATER TRANSMISSION LINE
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Project No: 6417098

Sheet: C-5

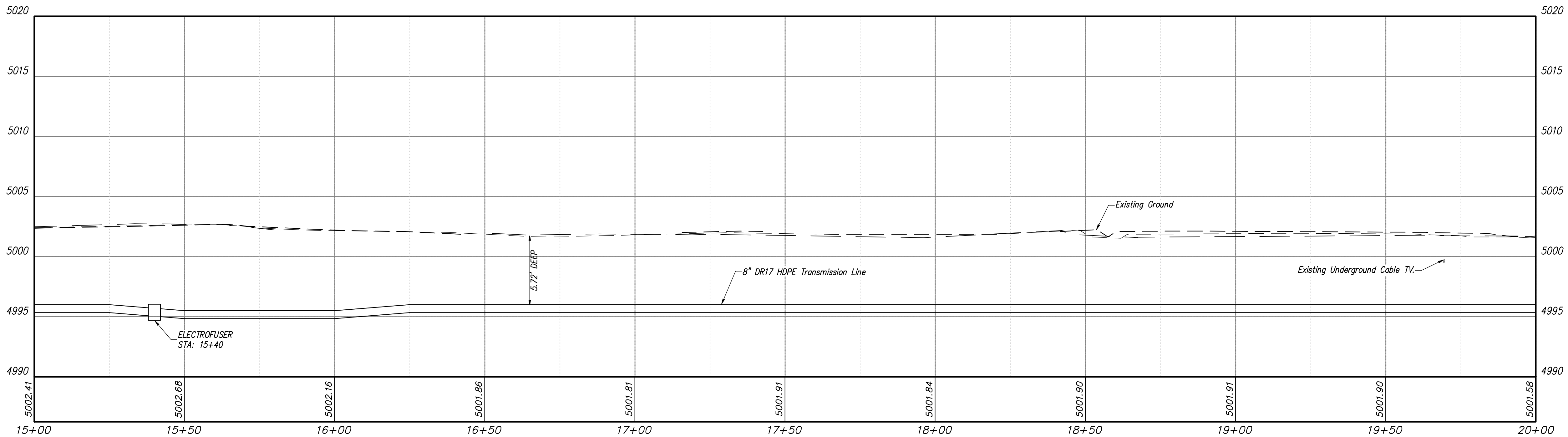


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PLAN VIEW



PROFILE VIEW

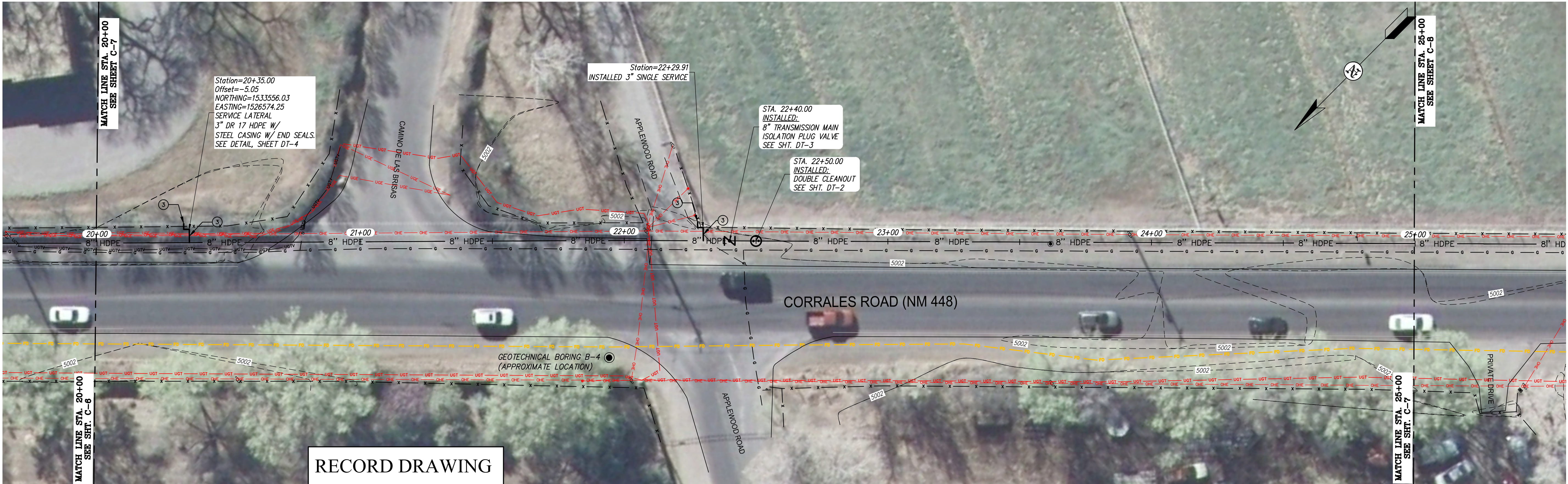
Revision	Date	Description	By	Check

CLIENT: VILLAGE OF CORRALES
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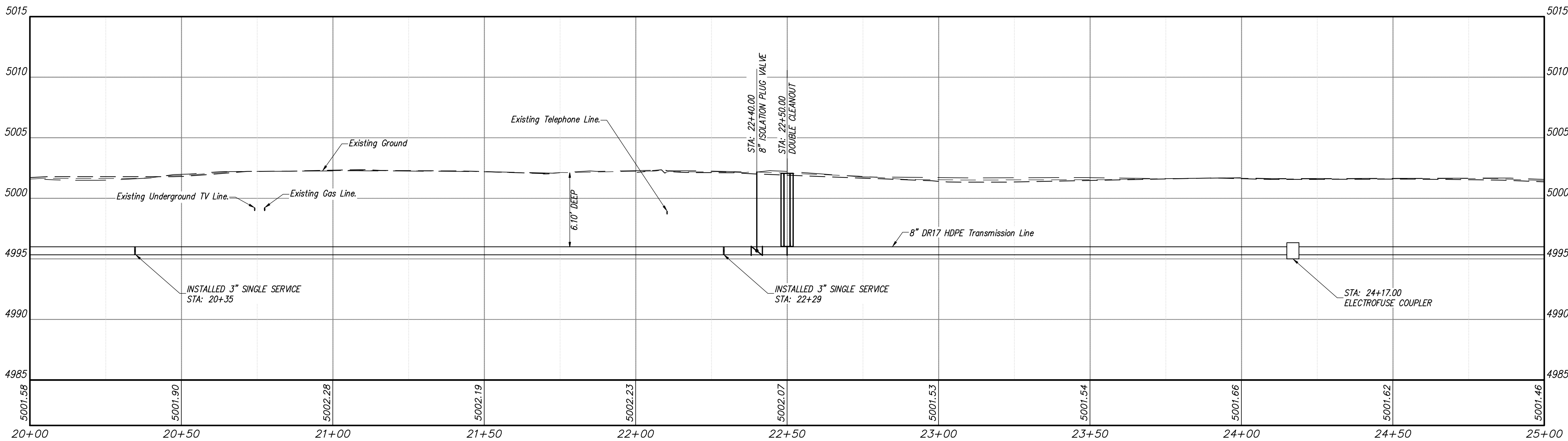


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Crkd

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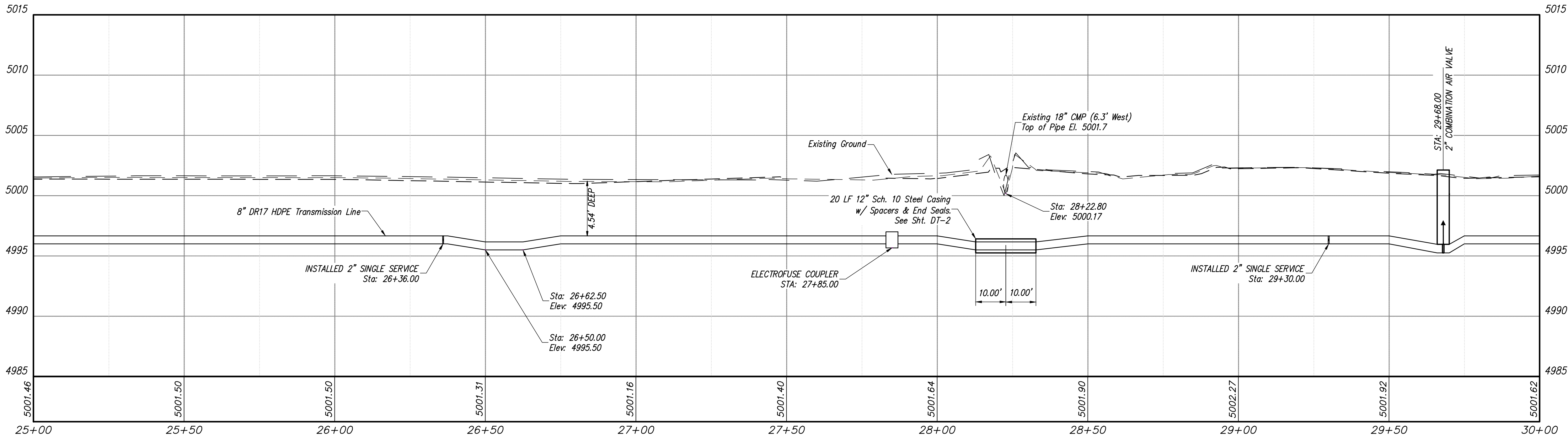


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Crkd
1	08-11	REVISE DATE	MLS	JAM
2	Aug-2012	RE-SIGN AND SEAL RECORD DRAWINGS	OGM	KUE


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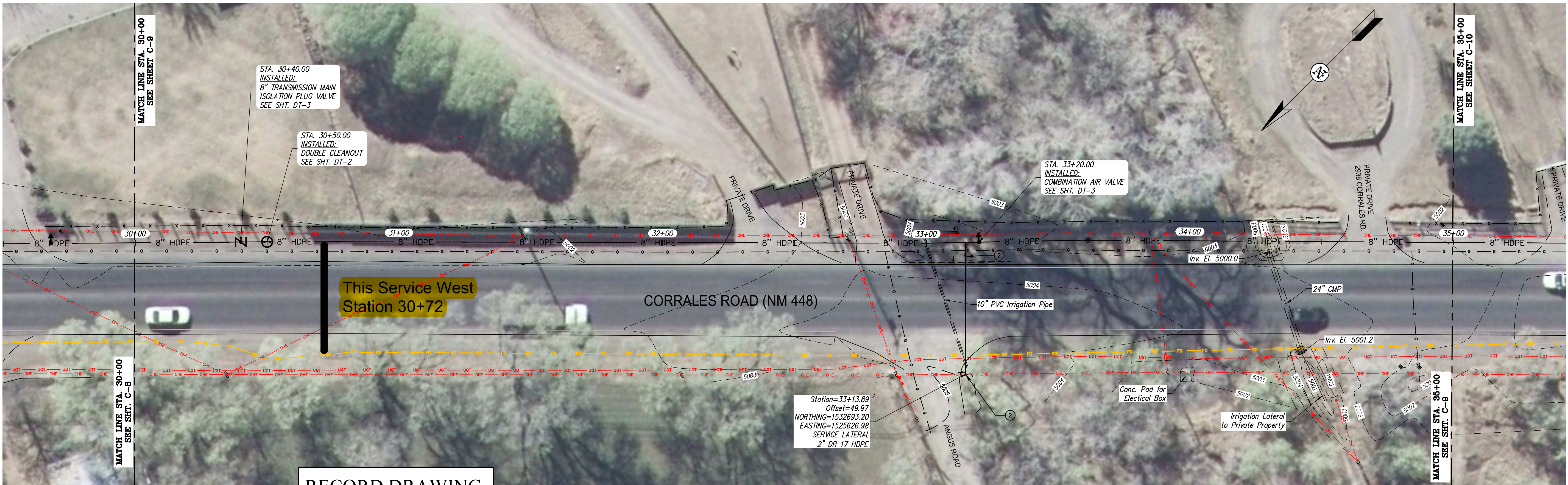
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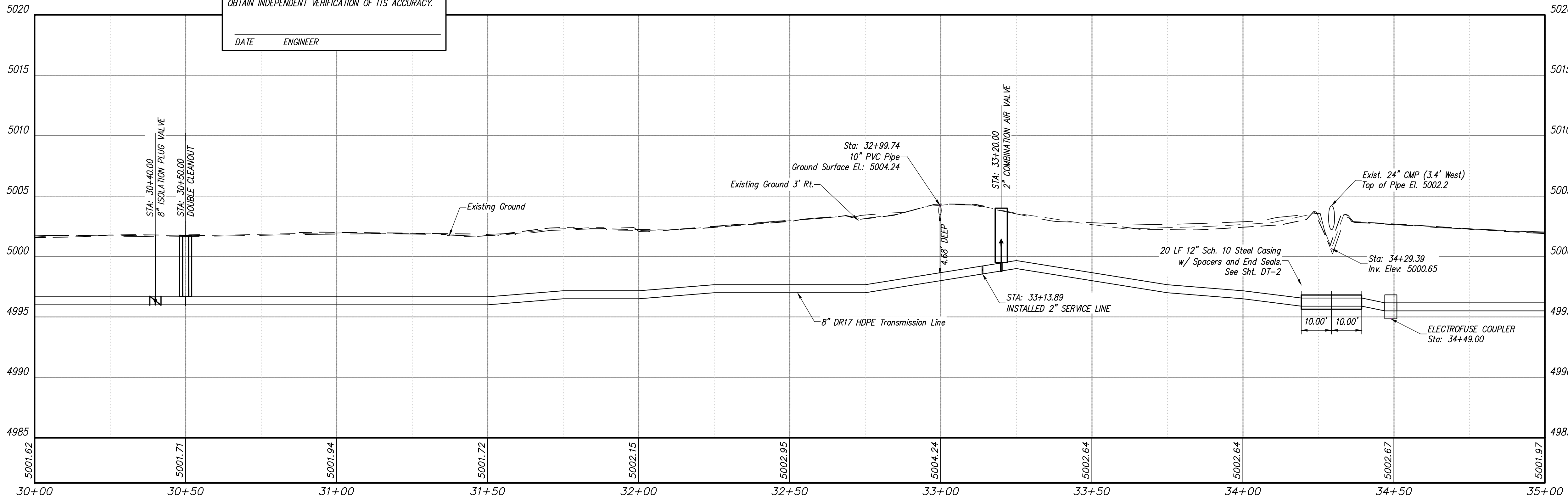


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PLAN VIEW




PROFILE VIEW

Revision	Date	Description	By	Crkd
1	08-11	REVISION DATE	MLS	JAM
2	Aug-2012	REVISION ISOLATION VALVE RECORD DRAWING	OGM	KJE

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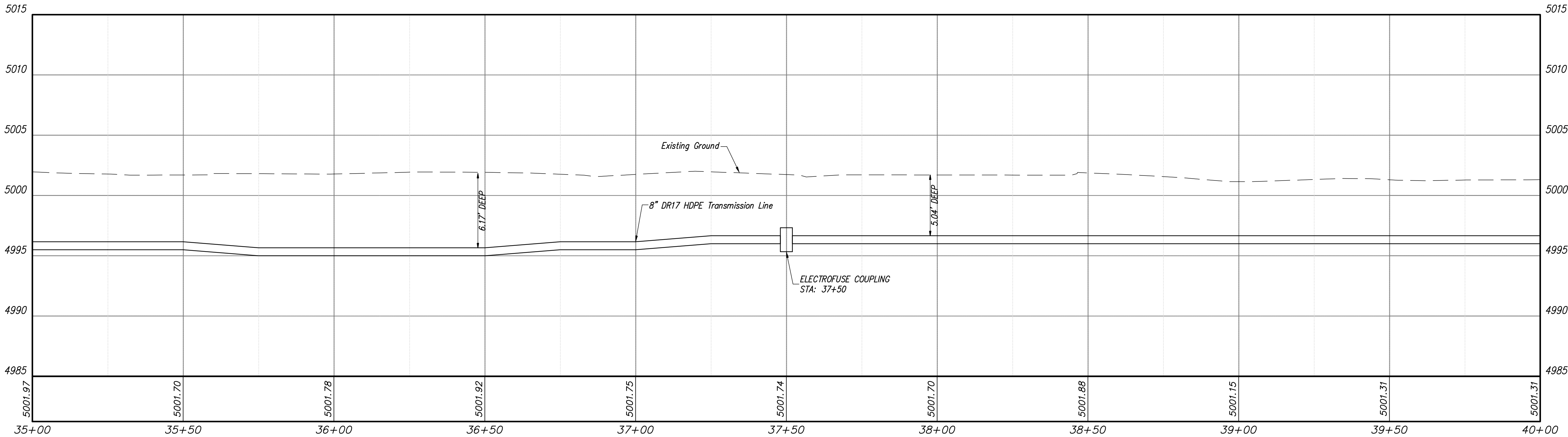


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PLAN VIEW



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2	Aug-2012	RE-SIGN AND SEAL RECORD DRAWING	OGM	KUE

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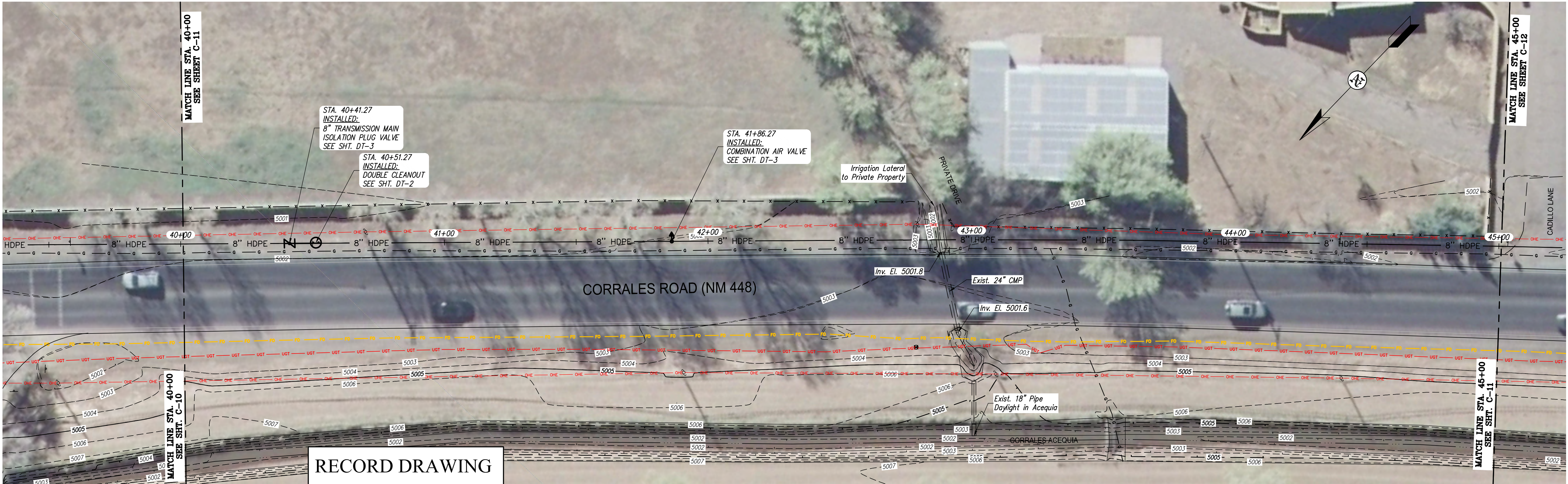
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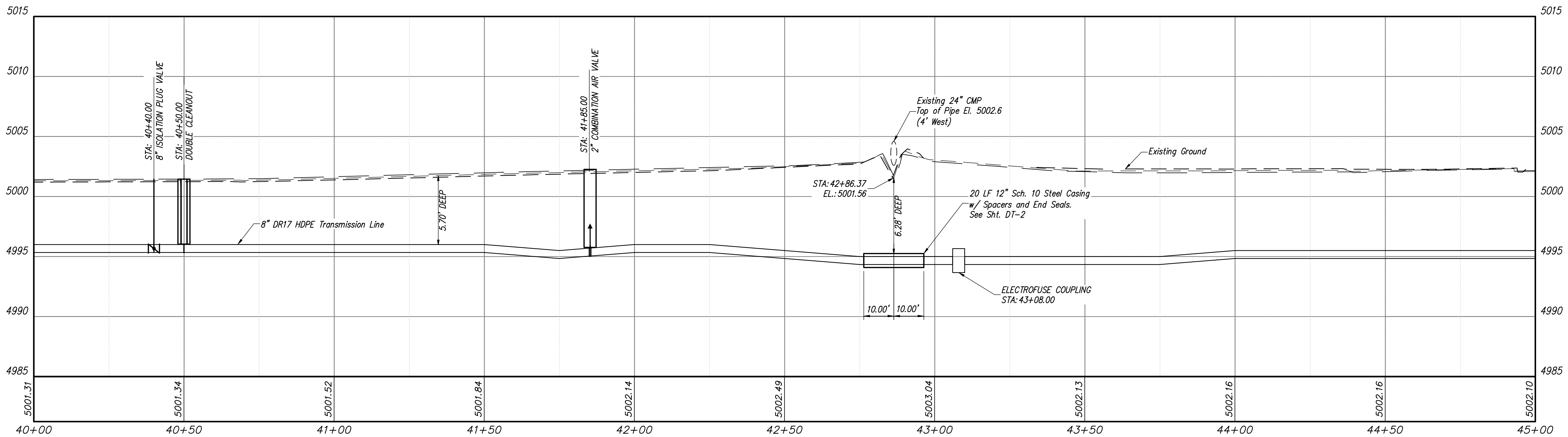


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PLAN VIEW



PROFILE VIEW

Revision	Date	Description	By	Chkd

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VILLAGE OF CORRALES, NEW MEXICO



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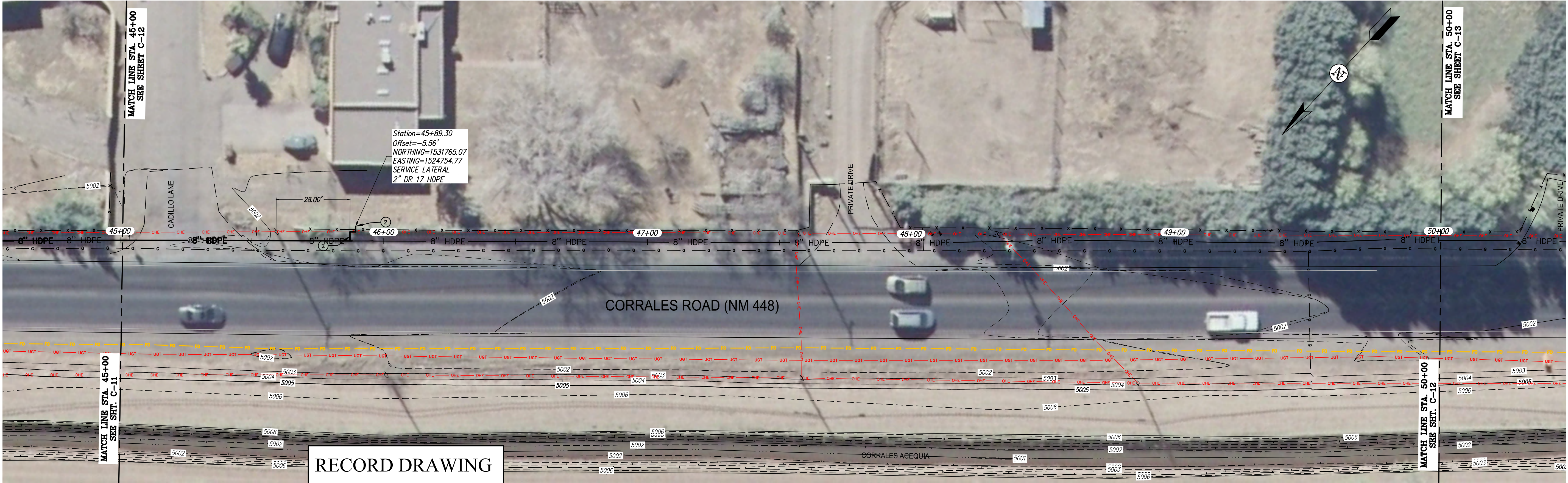
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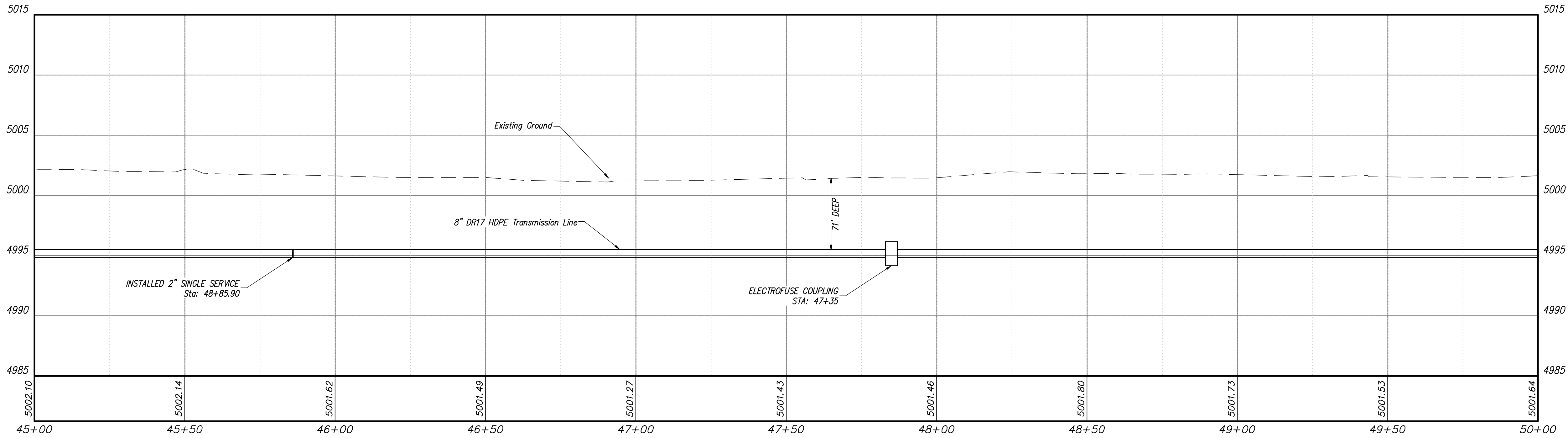


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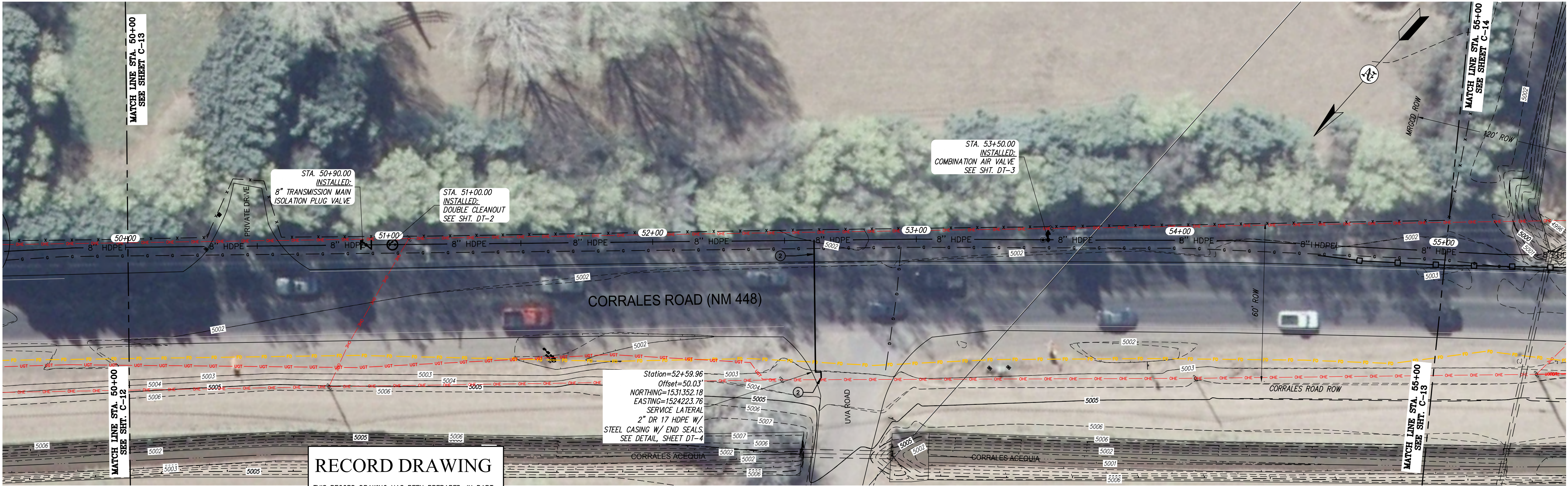
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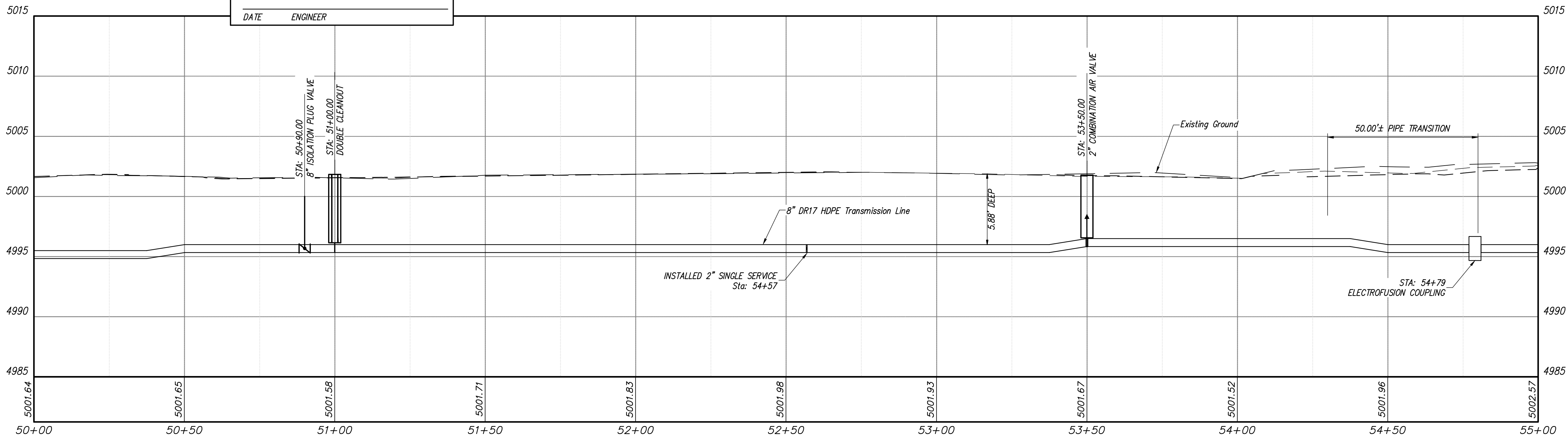


PLAN VIEW

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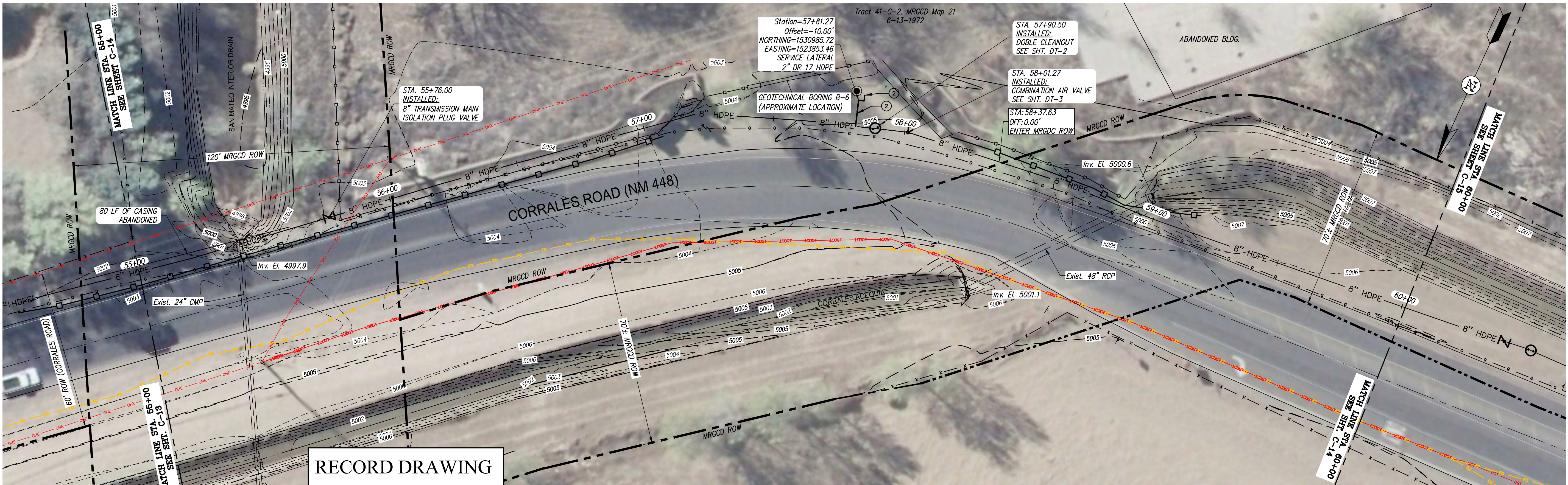
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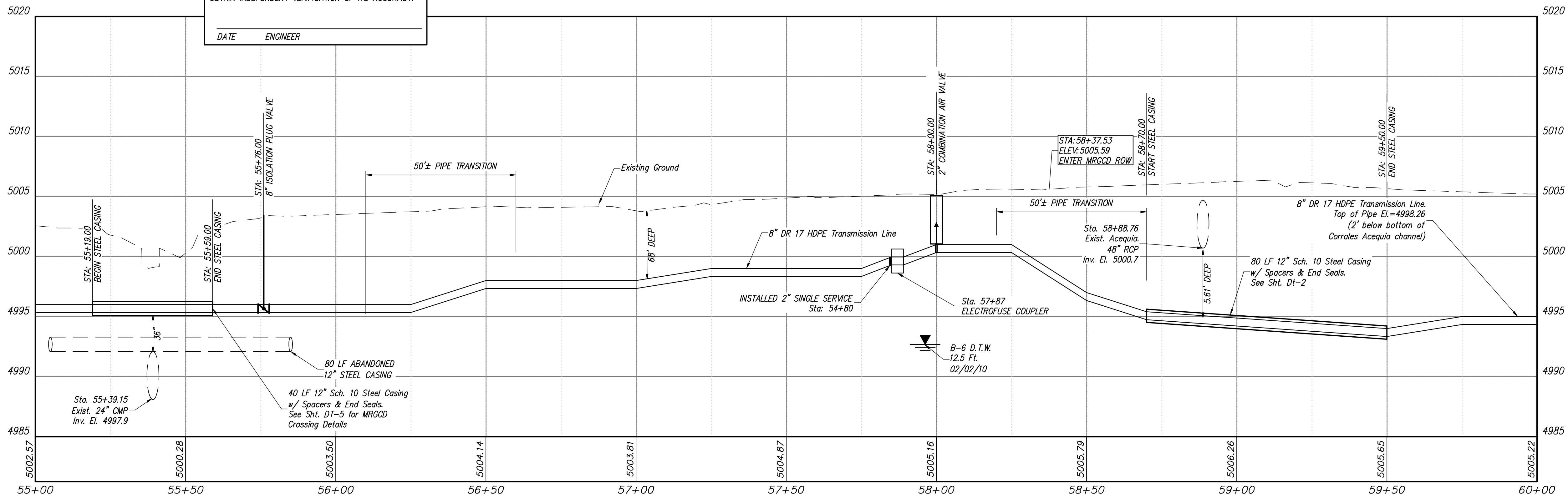
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PLAN VIEW



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1	08-11	RE-SIGN AND SEAL	MLS	JAM

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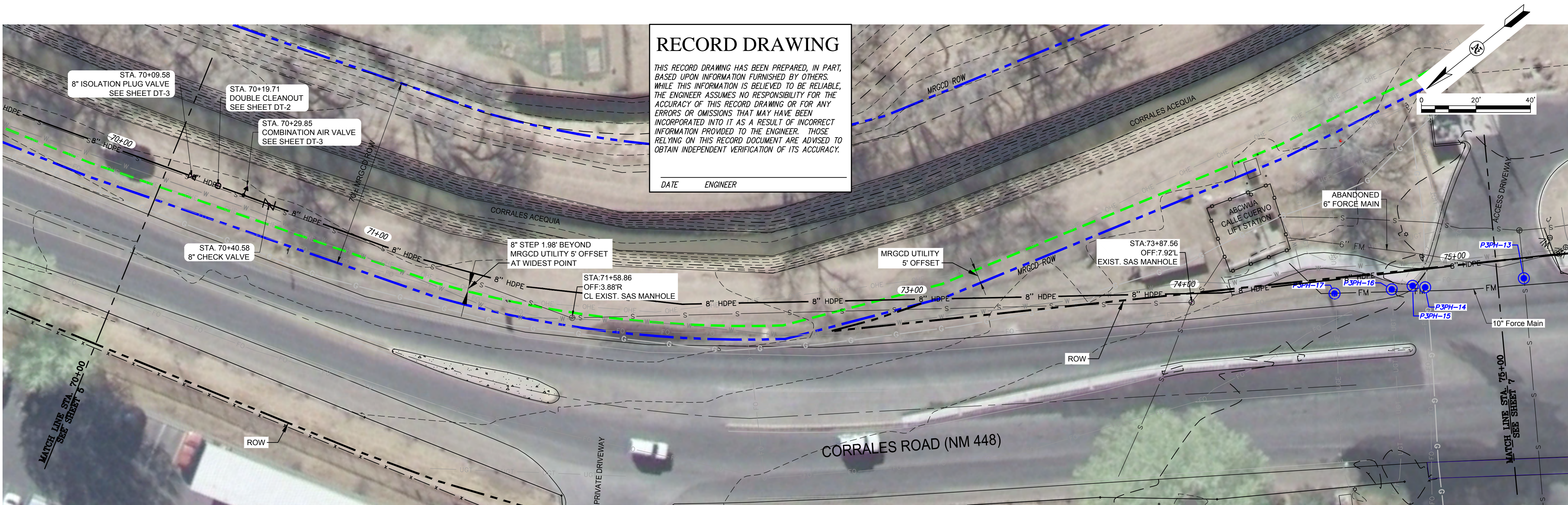
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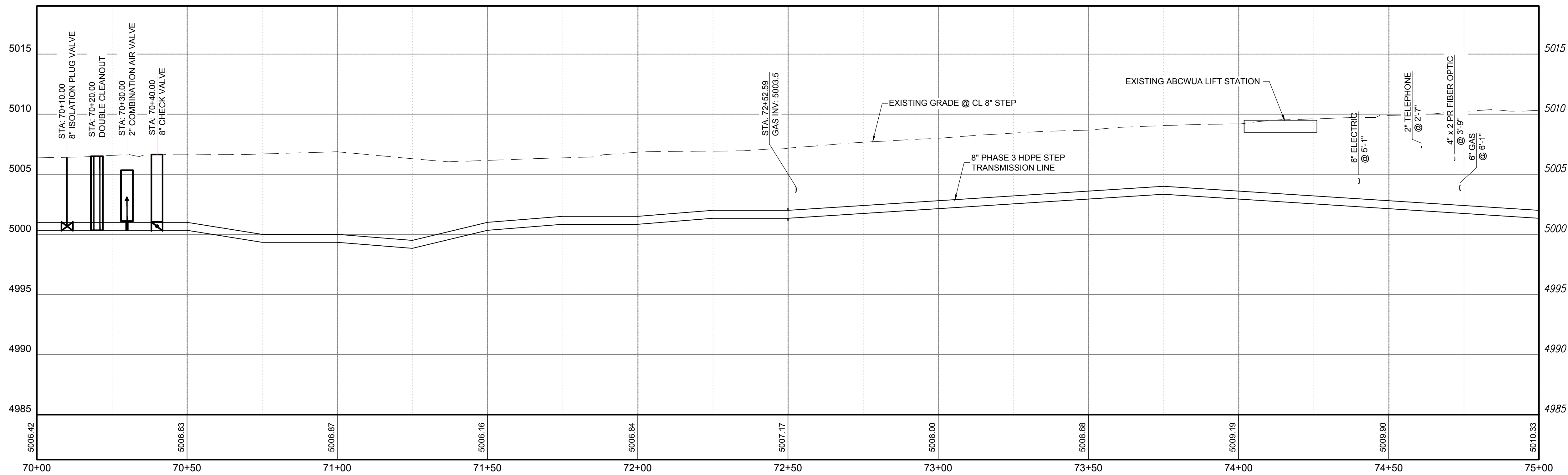
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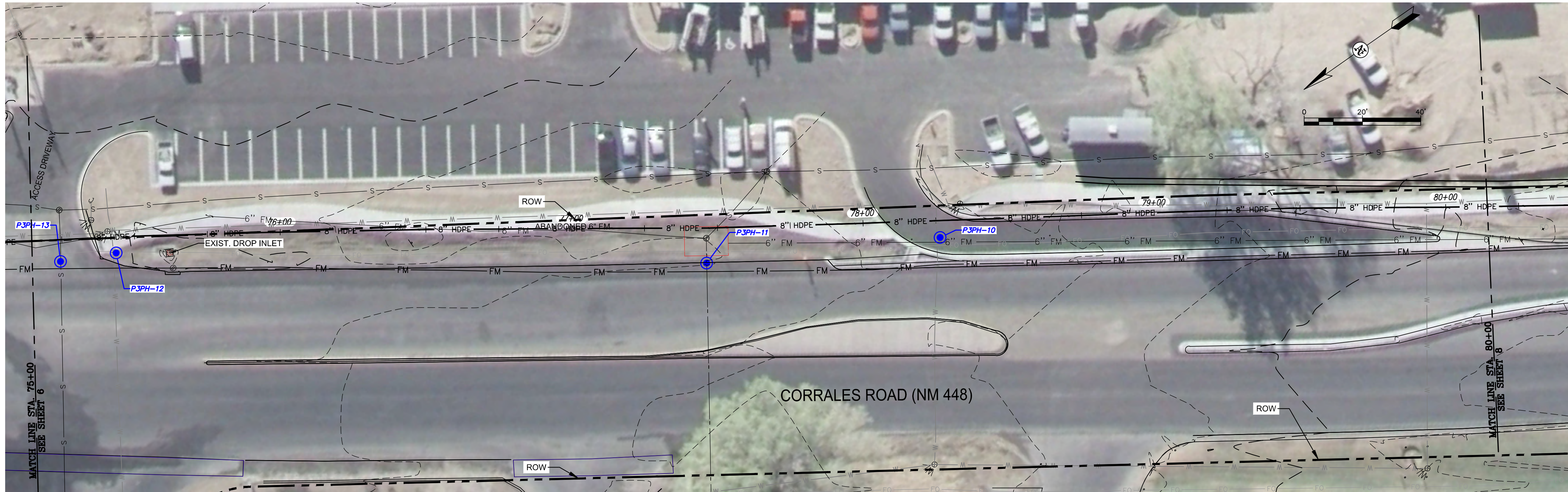


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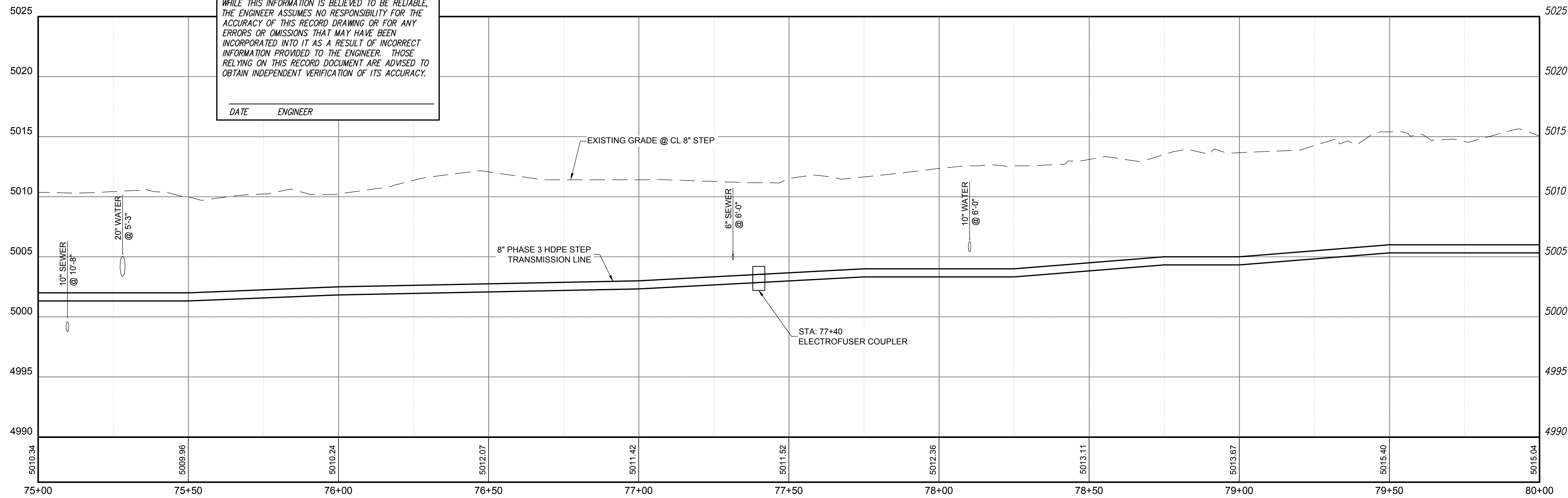


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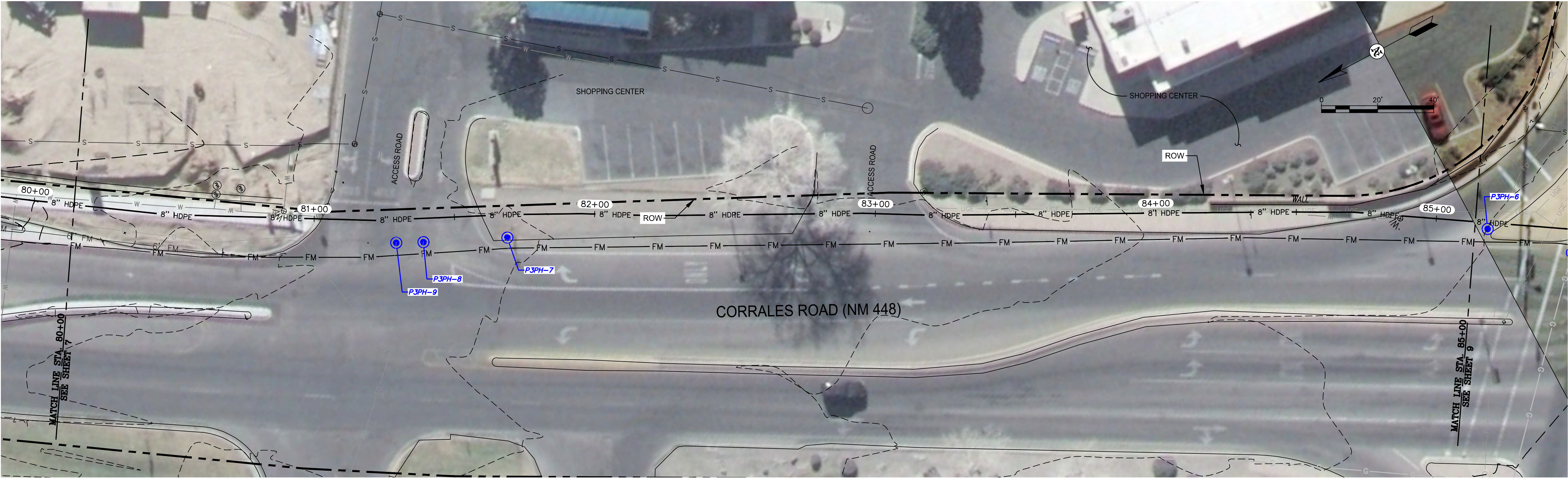
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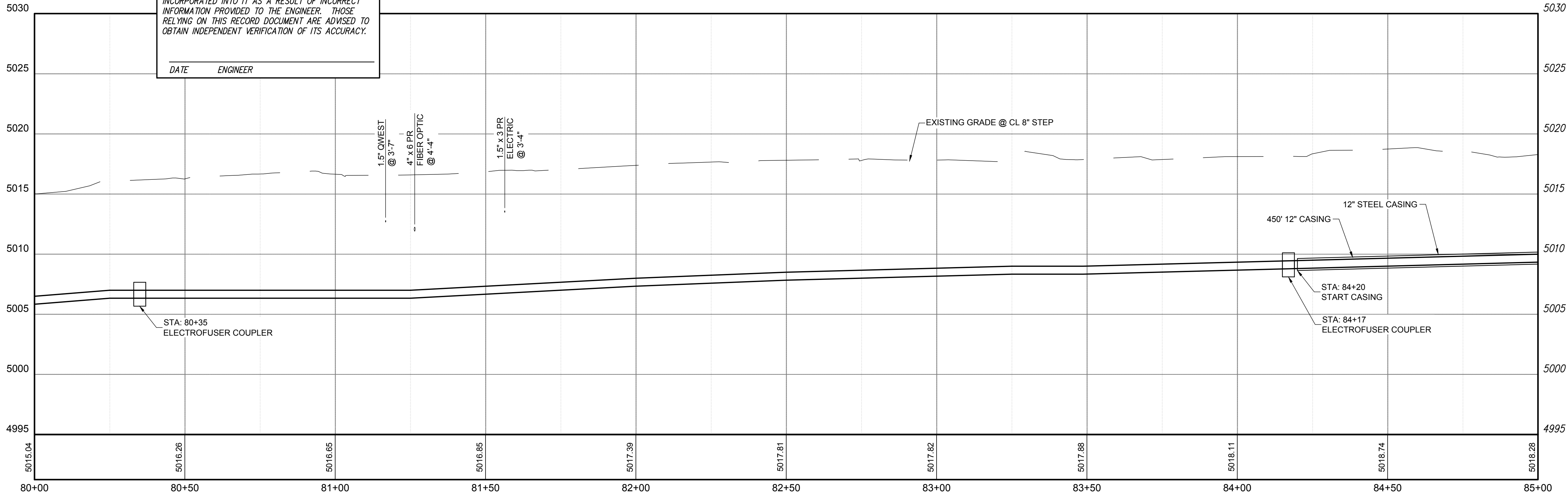


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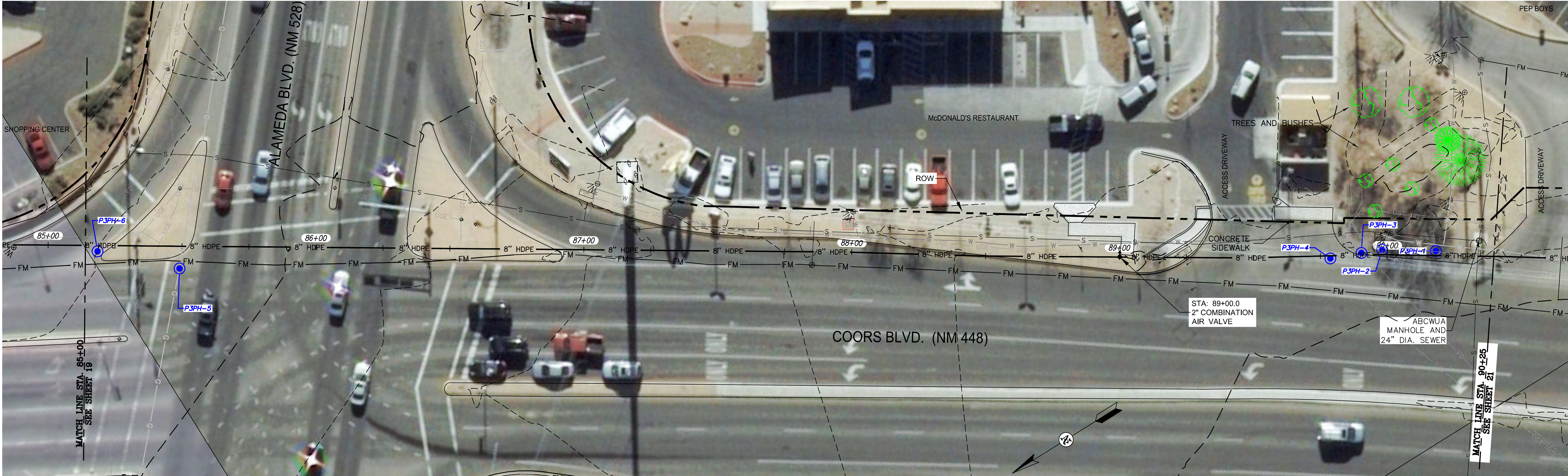
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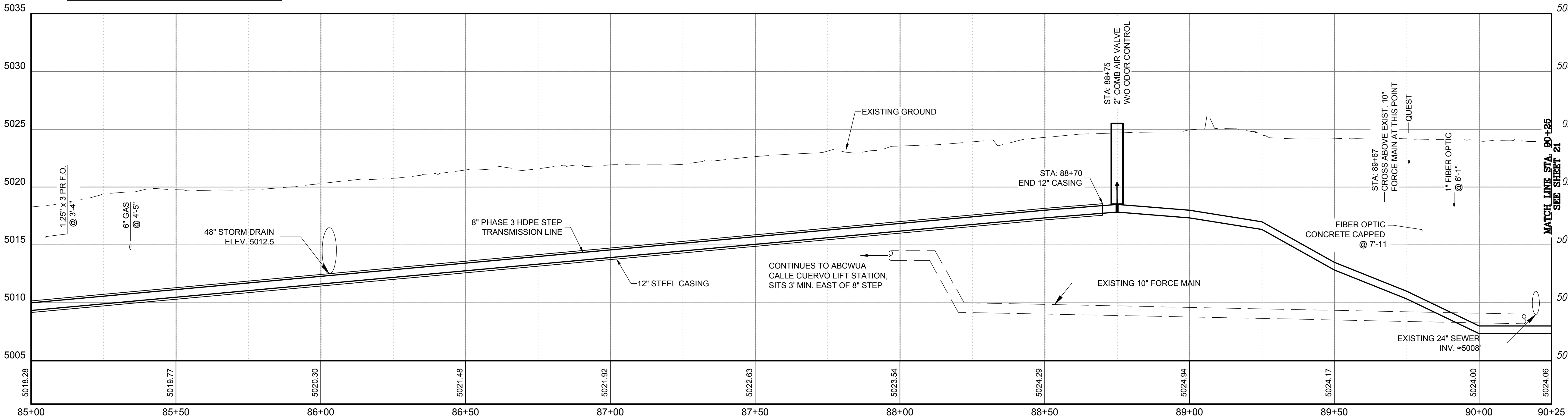


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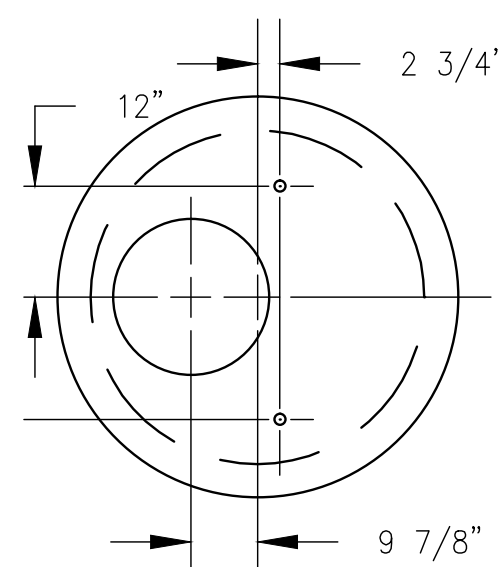
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Technical drawing of a 4' x 10' M.H. showing internal structure and dimensions. The drawing includes a cross-section view on the left and a side elevation view on the right. The cross-section view shows a rectangular structure with a central opening. The side elevation view shows the structure with a central opening and a smaller opening on the right. Dimensions are provided for the overall size (4' x 10'), the central opening (8" for 4 ft. I.D.), and the smaller opening (2" for 4 ft. I.D.). The drawing also shows the internal structure, including a central vertical pipe and a horizontal pipe. The drawing is labeled with 'B' and 'C' at the top and bottom, and 'A' and 'B' at the left and right. The drawing is also labeled with '1' - 10 3/4" DIA.' and '8" FOR 4 FT. I.D.'.

SECTION
A-A

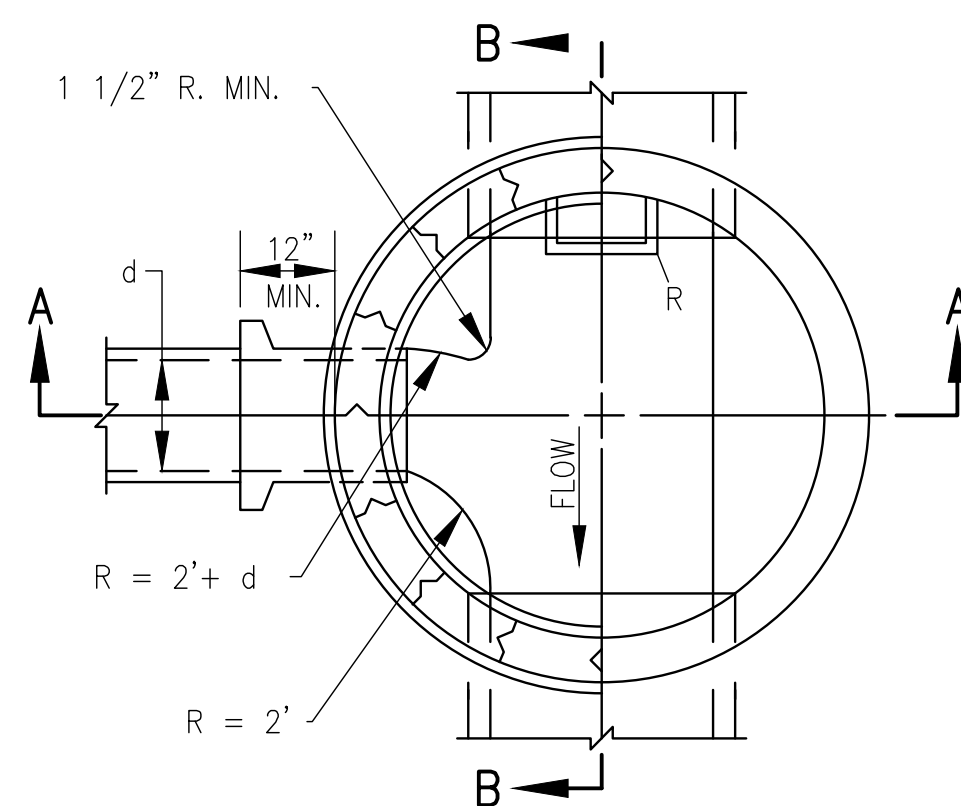
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Figure 1 shows a typical circular grid pattern. It consists of a large circle with a grid of lines inside. A central square is also present, with crosshairs. Labels 'C (TYPICAL)' and 'E' point to specific features on the grid.

SECTION B-B
TOP MAT

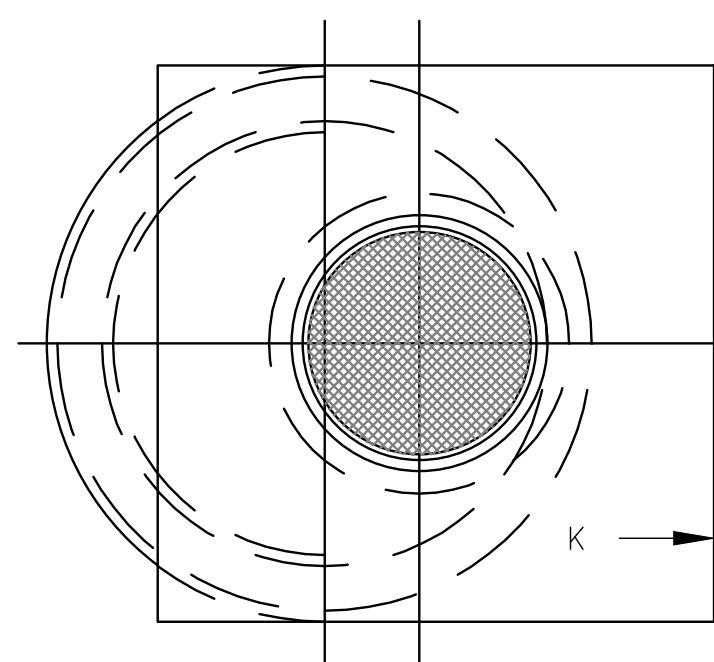


Figure 1: Typical Details of a Bridge Deck. This technical drawing shows cross-sections of a bridge deck. The top section shows a deck with a 3-inch top layer, a 6-inch middle layer, and a 12-inch bottom layer. It includes labels for reinforcement (D, E, G, K, R, S), concrete (C), and steel (J, Q). The bottom section shows a deck with a 4-inch minimum thickness, a 12-inch minimum bottom layer, and a 12-inch minimum top layer. It includes labels for reinforcement (D, E, G, K, R, S), concrete (C), and steel (J, Q). The flow direction is indicated by an arrow labeled 'FLOW'.

A diagram of a circular structure, likely a cross-section of a tunnel or pipe. It features several concentric circles. The innermost circle is labeled 'TEMPORARY SYSTEM'. The outermost circle is labeled 'SEWER'. There are two small rectangular structures on the left and right sides of the outer circle, possibly representing access points or structural supports.

SECTION C-C
BOTTOM MAT

1. USE TYPE C M.H. FOR DEPTHS OF LESS THAN 6' MEASURED FROM INV. TO RIM.
2. CONTRACTOR HAS OPTION TO CONSTRUCT TYPE C M.H. IN LIEU OF TYPE E M.H. FOR DEPTHS OF 6' OR MORE.
3. DESIGN APPLIES TO 4' & 6' I.D. MANHOLES.
4. M.H. GREATER THAN 18' IN DEPTH SHALL ONLY BE CONSTRUCTION PRECAST CONCRETE SECTIONS.
5. USE NON-SHRINK GROUT FOR JOINTS, FILLETS AND PENETRATIONS.
6. COMPACT ALL BACKFILL AROUND MANHOLE TO 95%.
7. POSITION M.H. OPENING OVER THE UPSTREAM SIDE OF MAIN LINE.

- A. CONCRETE PIPE SUPPORTS SHALL EXTEND OUTSIDE OF M.H. TO BELL OF FIRST JOINT & SHALL CRADLE PIPE TO SPRING LINE. NOT APPLICABLE FOR FLEXIBLE PIPE.
- B. PIPE PENETRATION INTO MANHOLE SHALL BE FLUSH TO 2" MAX., MEASURED AT SPRINGLINE OF PIPE.
- C. MANHOLE MUST BE CONSTRUCTED OF PRECAST REINFORCED CONCRETE.
- D. PRECAST CONCRETE COVER, SEE DWG. 2107.
- E. USE MAX. 4 COURSES GR. MS BRICK ON UNPAVED STREET FOR FUTURE ADJUSTMENT OF M.H. FRAME TO PAVEMENT GRADE. PLASTER INSIDE WITH 1/2" MORTAR.
- F. CONCRETE BASE TO BE POURED IN PLACE USING NO. 4 BARS AT 6" O.C. EA. WAY FOR M.H. DEPTH OF 16' OR GREATER. NO. 4 BARS AT 12" O.C. EA. WAY FOR M.H. LESS THAN 16' IN DEPTH.
- G. IN UNPAVED AREAS, SET FRAME TO GRADE AND SLOPE TOP OF PAD.
- H. INVERT ELEVATION OF STUB OR LATERAL AS SHOWN ON PLANS.
- J. 6" GROUT FILLET ON UPPER HALF OF PIPE AND AROUND BASE.
- K. USE A 5' X 5' CONCRETE PAD IN ALL AREAS.
- L. FRAME AND COVER, SEE DWG. 2110. M. CONCRETE FILL, 3000 PSI.
- N. SLOPE 1" PER FT. FROM PIPE CROWN.
- P. SHELVE TO BE 9" WIDE MIN.
- Q. APPROVED WATERSTOP TO BE COMPATIBLE WITH TYPE OF PIPE.
- R. STEPS TO BE INSTALLED @ 16" O.C.
- S. END (IN UNPAVED AREAS).

TYPE "C" MANHOLE TO BE USED ON THIS PROJECT
SOLEY FOR EQUIPMENT AND APPURTENANCES ACCESS,
NOT FOR CONVEYANCE OF SANITARY WASTE.

A. PRECAST REINF. CONC. MH. COVER.
B. ALL BARS TO HAVE 1 1/2" MIN. COVER.
C. 1" PIPE SLEEVE VERTICAL THROUGH COVER. D. TOP MAT: NO. 4 BARS AT 6" O.C. EA. WAY FOR 4, FT. I.D. MH.
E. NO. 4 BARS.
F. BOTTOM MAT: NO. 4 BARS 6" O.C. EA. WAY FOR 4 I.D. MH.
G. NO. 4 BARS FOR 4 FT. I.D. MH. BARS FOR 8 H. WHEN PRECAST M.H. SECTIONS ARE USED, COVER SHALL BE MODIFIED TO SHAPE OF APPROPRIATE SIZE T & G JOINT.

[illegible]

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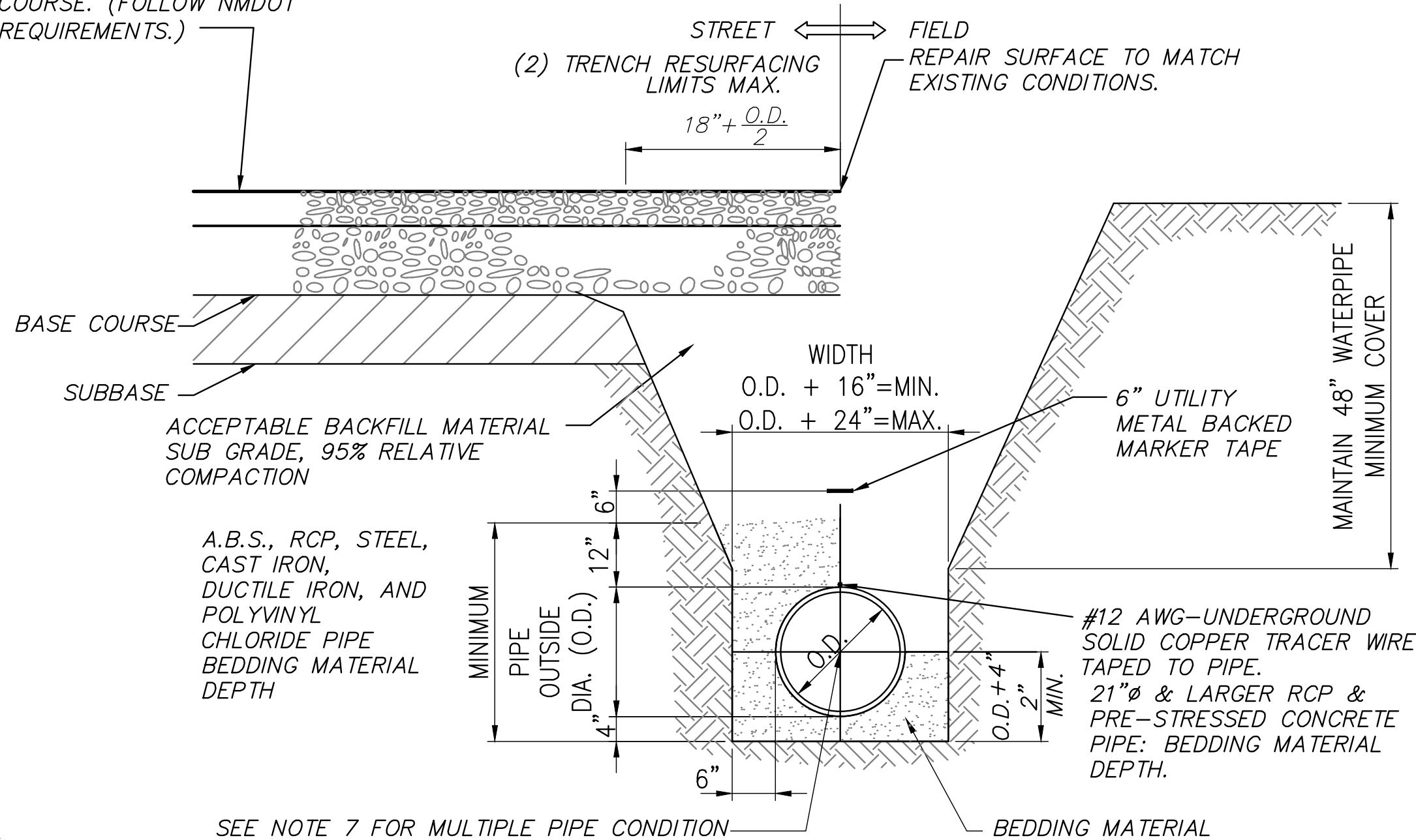
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REPAIR A.C. SURFACING AND BASE COURSE AND SUBBASE TO MATCH EXISTING CONDITIONS, BUT NOT LESS THAN 6" A.C. AND 8" BASE COURSE. (FOLLOW NMDOT REQUIREMENTS.)

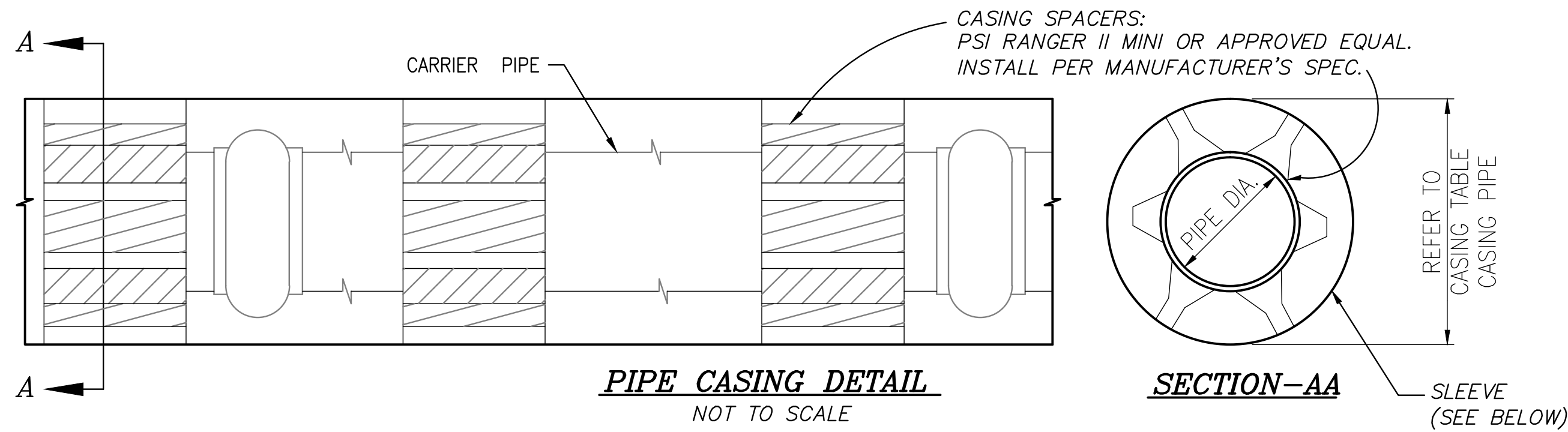


NOTES:

SEE NOTE 7 FOR MULTIPLE PIPE CONDITION

- (1) MINIMUM COVER DEPTH BELOW OFFICIAL STREET GRADE.
- (2) TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES.
- (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPHALT AND STRIPING NEEDED TO PATCH DISTURBED AREAS. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO MEASUREMENT OR PAYMENT SHALL BE MADE. THE CONTRACTOR SHALL SUBMIT PATCHING METHODS TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
- (4) EXISTING A.C. PAVEMENT SHALL BE SAW CUT TO A MINIMUM DEPTH OF 1 1/2" OR 25% OF ITS THICKNESS, WHICHEVER IS GREATER, IN SUCH A MANNER SO AS NOT TO TEAR, BULGE OR DISPLACE ADJACENT PAVEMENT. EDGES SHALL BE CLEAN AND VERTICAL.
- (5) A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL SURFACES, PRIOR TO RESURFACING.
- (6) ASPHALTIC CONCRETE RESURFACING:
A) MINIMUM TOTAL THICKNESS SHALL BE ONE INCH GREATER THAN EXISTING A.C.
B) A.C. SHALL BE HOT PLANT MIX, NMDOT STANDARDS. SEE SPECIFICATIONS.
- (7) WHEN MULTIPLE PIPES ARE PLACED IN ONE TRENCH, SEE PLANS FOR PIPE SIZES AND MINIMUM DISTANCES BETWEEN EACH PIPE (DISTANCE VARIES DEPENDING ON PIPE SIZES).

GENERALIZED TRENCH LIMITS FOR OPEN TRENCH PIPE INSTALLATION, BEDDING & BACKFILL LIMITS
NOT TO SCALE

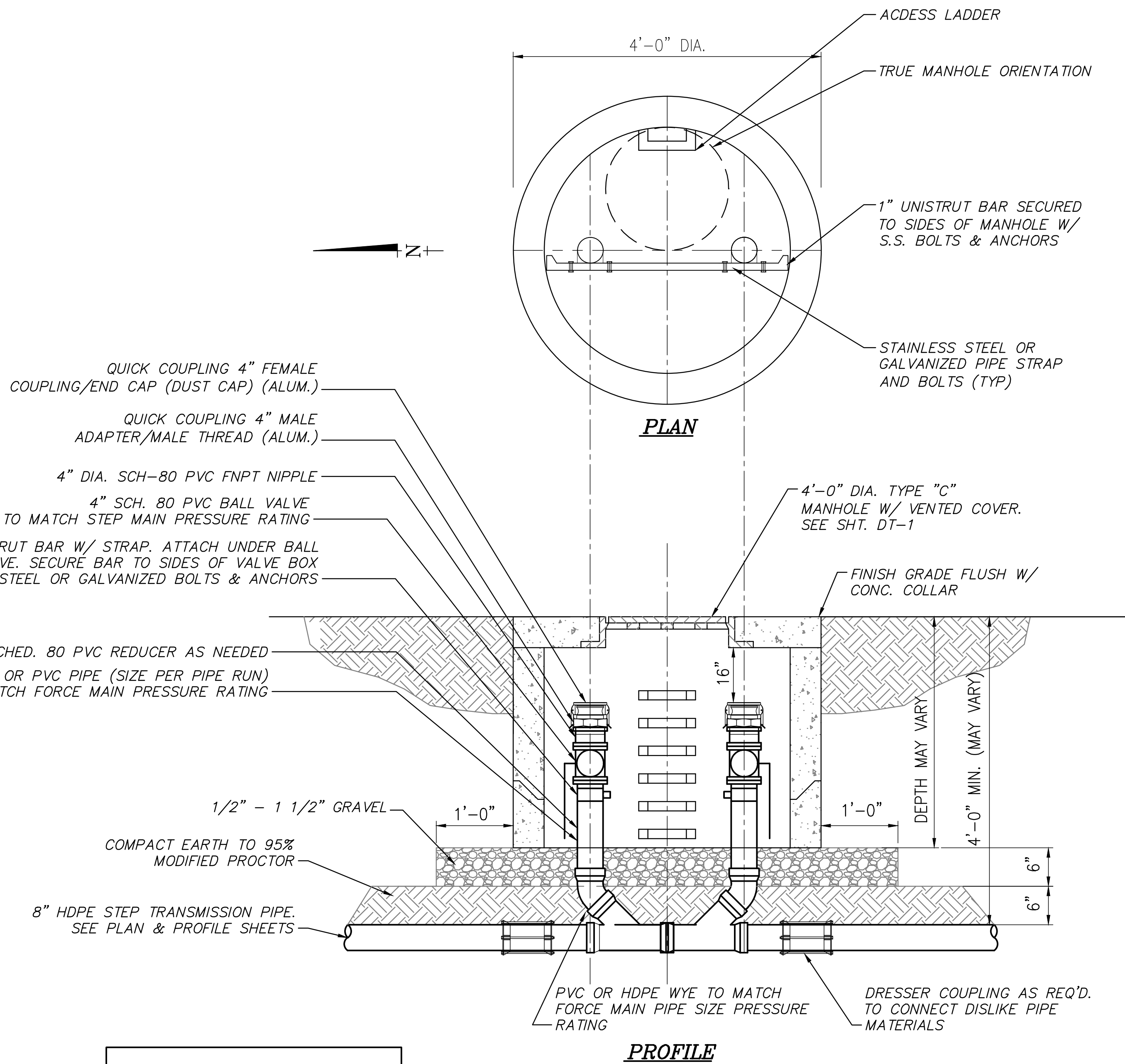


CASING SPECIFICATIONS			
LOCATION	CASING DIA. & MATERIAL	CARRIER	NOMINALSPACER SKID HEIGHT
MULTIPLE	12" SCHED. 10 STEEL	8" DR 17 HDPE	1.5" PSI*

* = "PIPELINE SEAL & INSULATOR" OR APPROVED EQUAL

NOTES:

1. ALL NM 448 CROSSINGS ARE TO BE AT 4 FT. MINIMUM BURY DEPTH AND ARE OPEN TRENCH CONSTRUCTION UNLESS OTHERWISE NOTED. MRGCD OR OTHER IRRIGATION APPURTENANCE UNDERCROSSINGS REQUIRE 3 FT. MINIMUM SEPARATION.
2. END SEALS REQUIRED. "PSI" OR APPROVED EQUAL.



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STEP SEWER DOUBLE CLEAN-OUT
NOT TO SCALE

NOTE:
SIZE FITTINGS BY SIZE OF FORCE MAIN.

MISCELLANEOUS DETAILS
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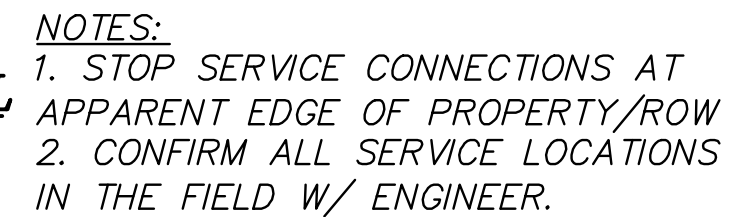
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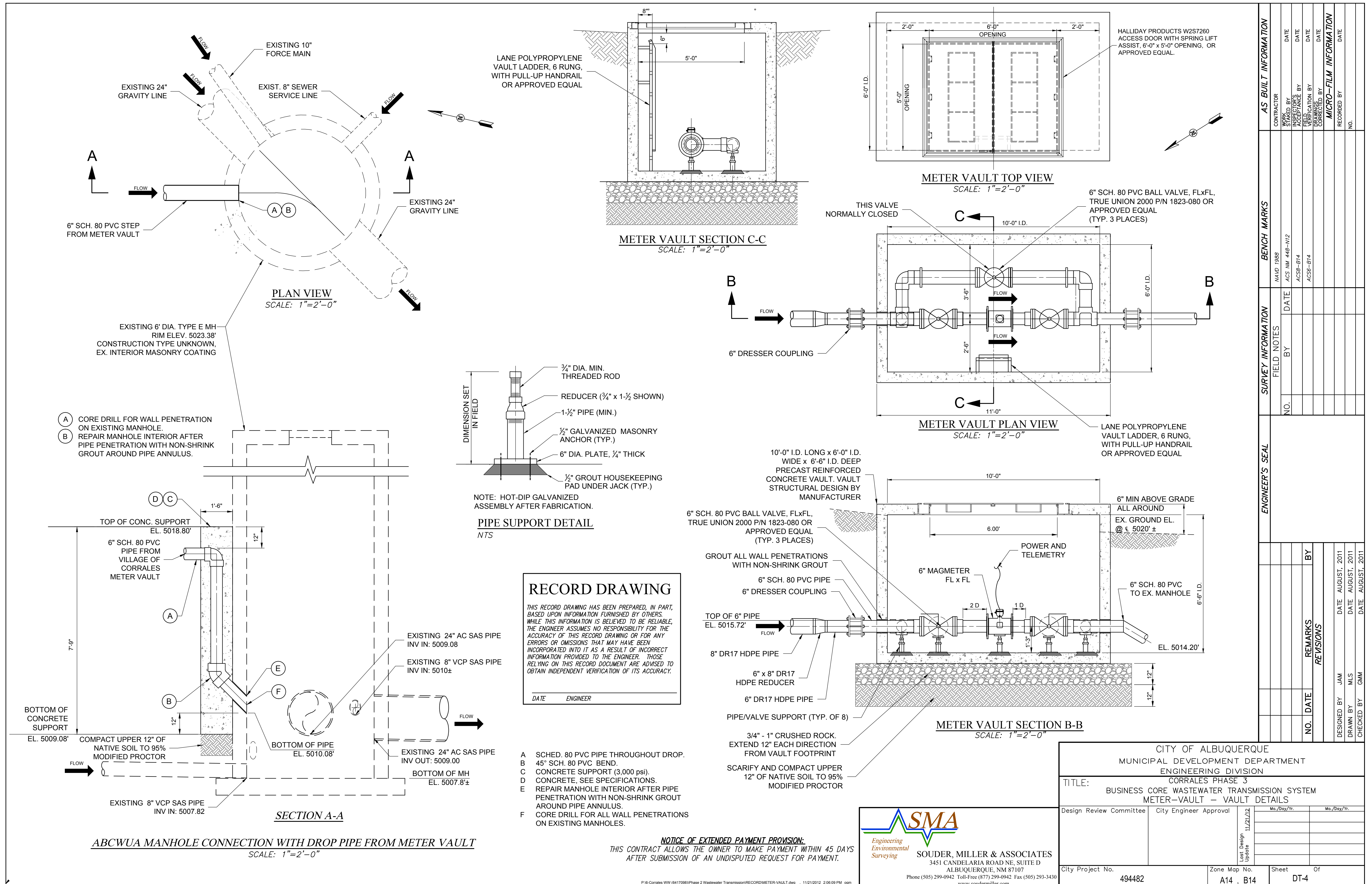
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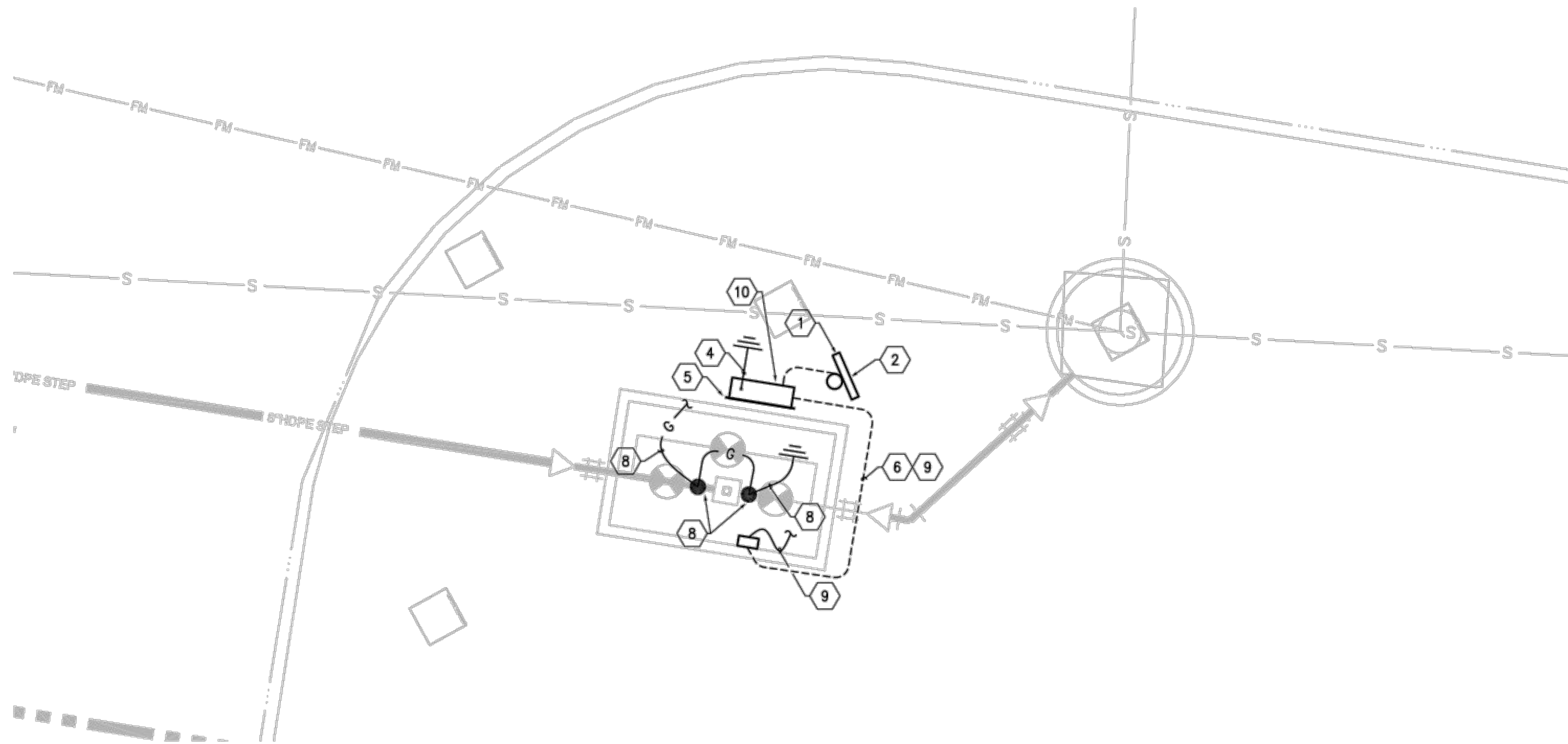
VALVE DETAILS

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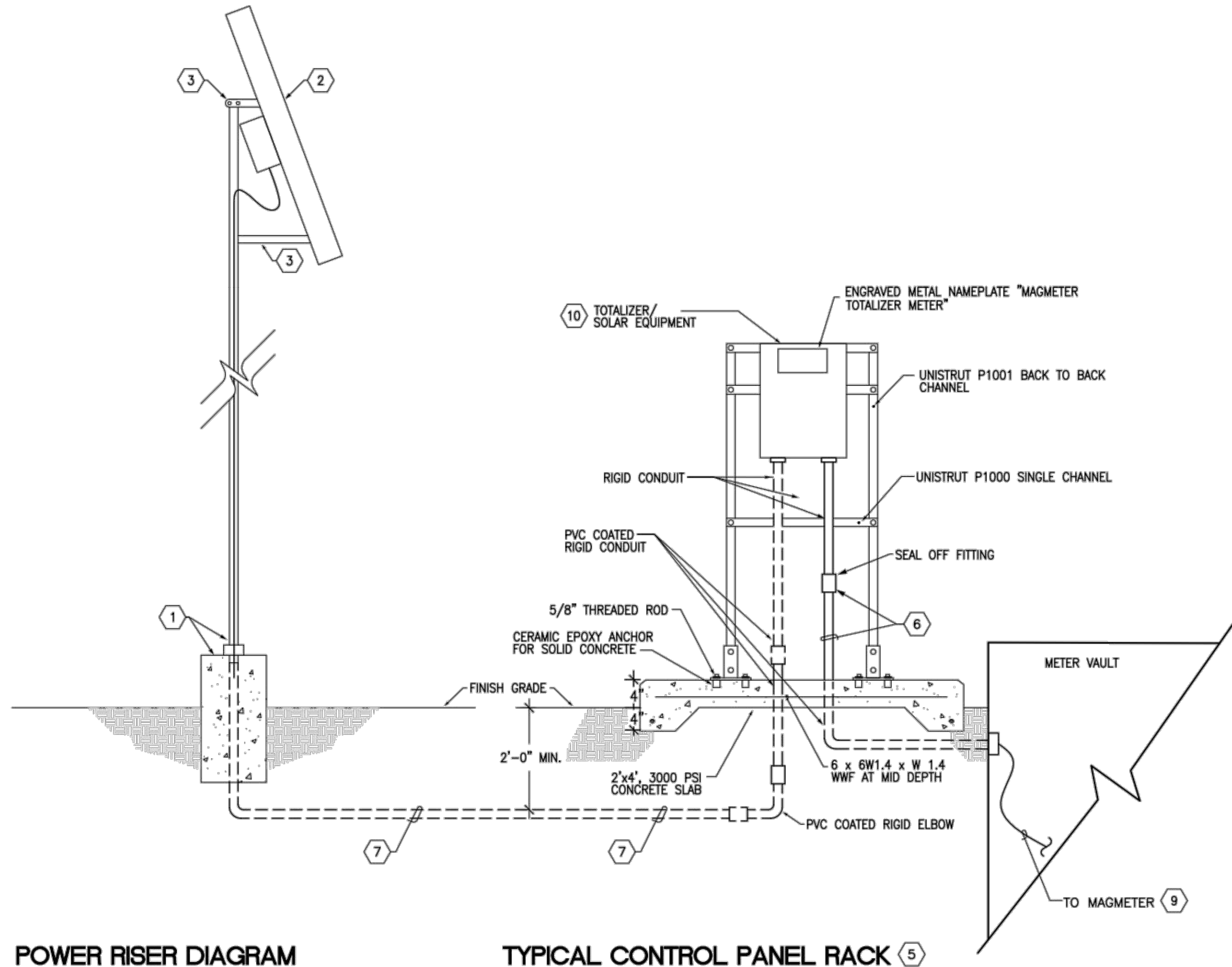
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ELECTRICAL SITE PLAN

SCALE: 1" = 5'-0"



TYPICAL CONTROL PANEL RACK (5)

POWER RISER DIAGRAM

NO SCALE

NO SCALE

WARNING

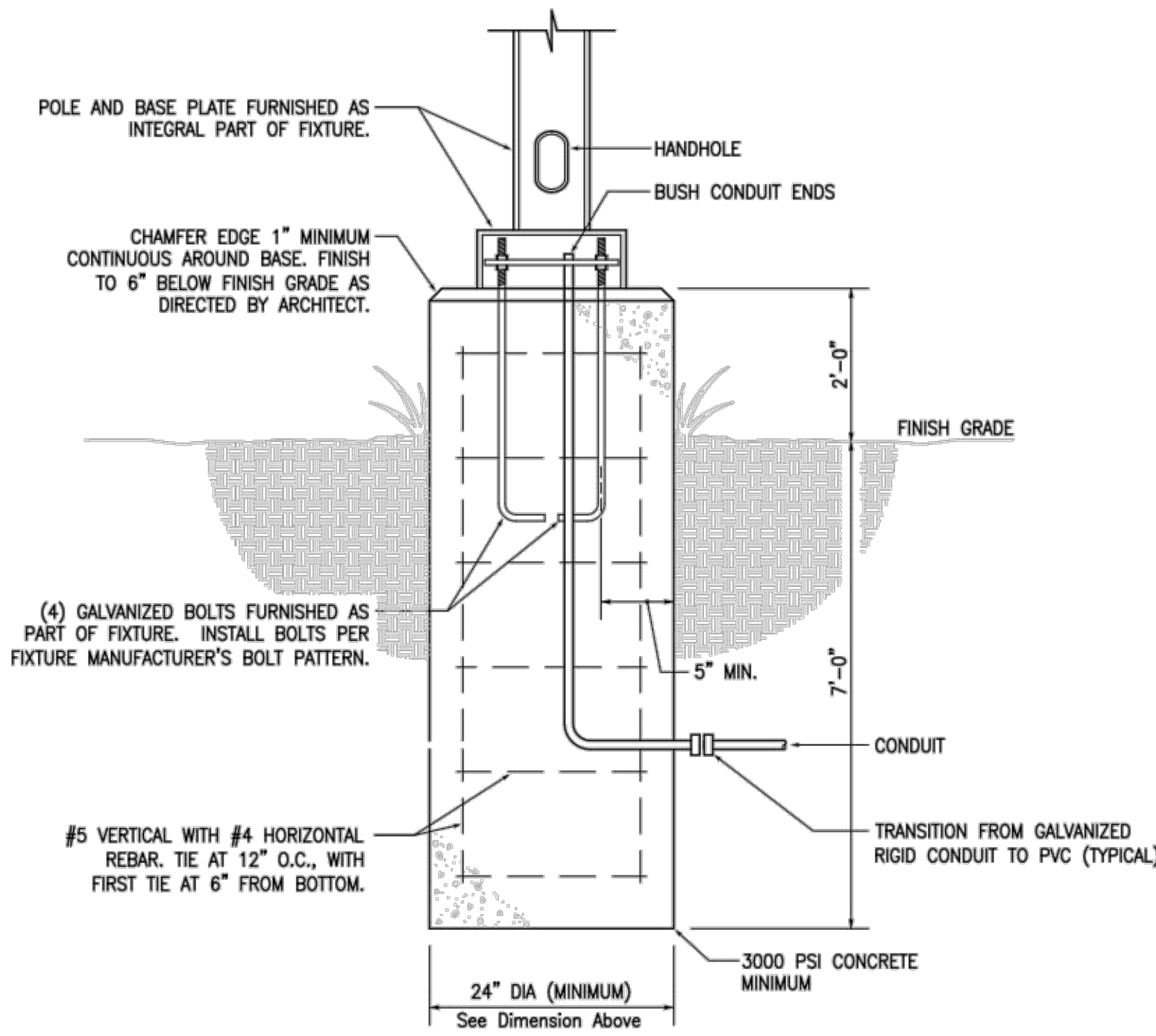
IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE OF ANY AND ALL DAMAGE CAUSED BY IT'S FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

RECORD DRAWING

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION PROVIDED TO THE ENGINEER. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY.

DATE ENGINEER



SOLAR PANEL POLE BASE MOUNTING DETAIL

NO SCALE

ELECTRICAL SPECIFICATIONS

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL FACILITIES IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES. NATIONAL ELECTRICAL CODE, STATE & LOCAL CODES, AND IN A WORKMANLIKE MANNER.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT JOB SITE.
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS OF ALL PERMITS, TESTS AND INSPECTIONS, AND VISIT THE SITE OF WORK BEFORE SUBMITTING BID.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES.
- A SET OF MARKED UP PRINTS SHALL BE PREPARED SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND TURN IT OVER TO THE OWNER AT THE END OF THE JOB. ALL CHANGES MUST HAVE THE OWNERS APPROVAL.
- ANY DISCREPANCY BETWEEN MATERIAL DESCRIPTION AND CATALOG NO. SHALL BE BROUGHT TO THE ARCHITECTS, ENGINEERS, OR OWNERS ATTENTION IMMEDIATELY.
- ALL CONDUCTORS TO BE #12 AWG THWN EXCEPT WHERE OTHERWISE SHOWN OR NOTED. IT IS PERMISSIBLE FOR THE CONTRACTOR TO USE THIN WIRING IN EXISTING CONDUITS.
- ALL CONDUIT WHICH COMES IN CONTACT WITH EARTH SHALL BE WRAPPED IN SCOTCH WRAP #51 OR PLASTIC COATED. ALL FEEDERS AND HOMERUNS SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED.
- NO MORE THEN (4) 90° TURNS IN ANY CONDUIT RUN
- INSTALLATION OF SOLAR PHOTOVOLTAIC SYSTEM SHALL COMPLY TO ARTICLE 690 OF THE NEC.

KEYED NOTES

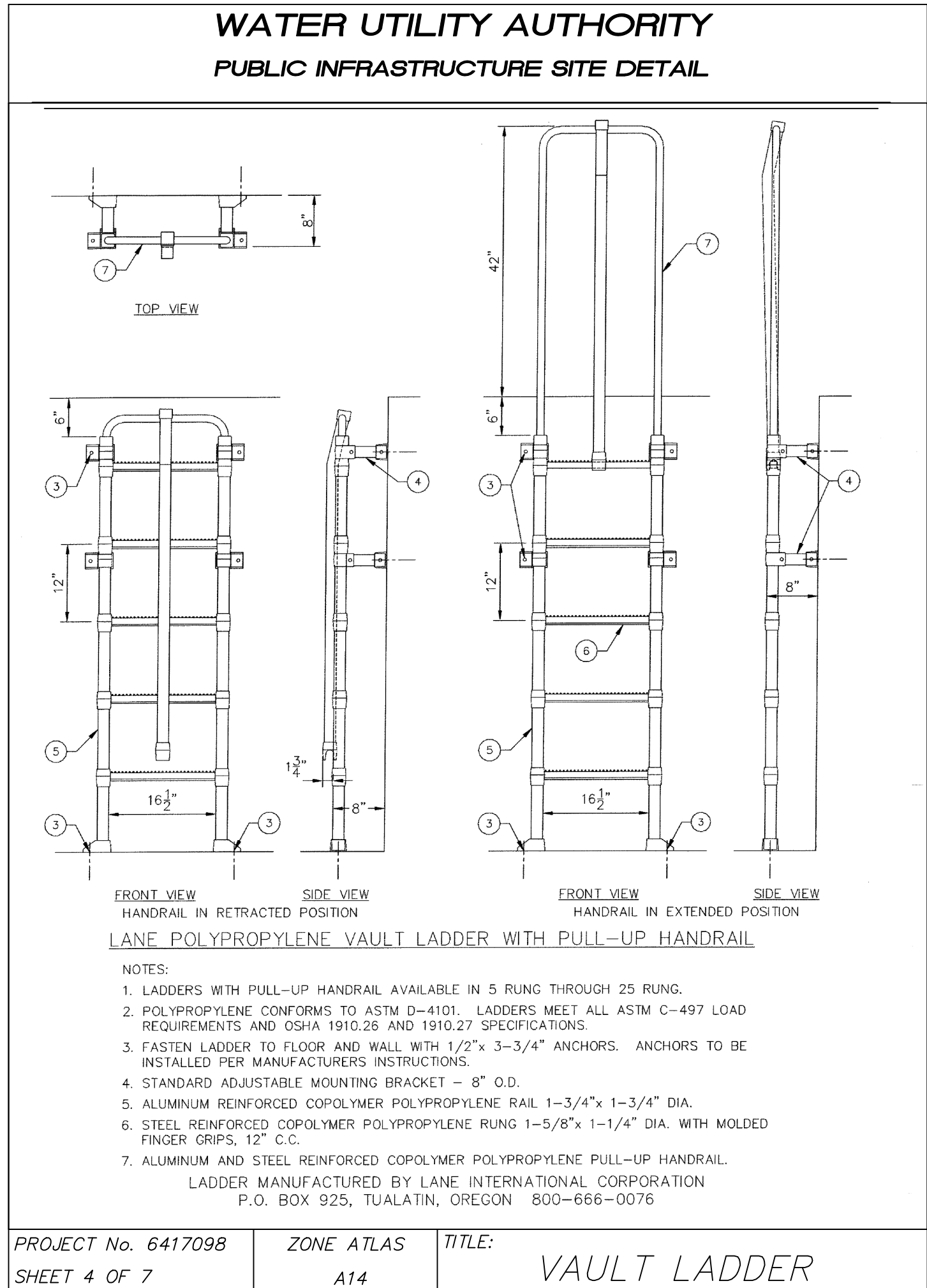
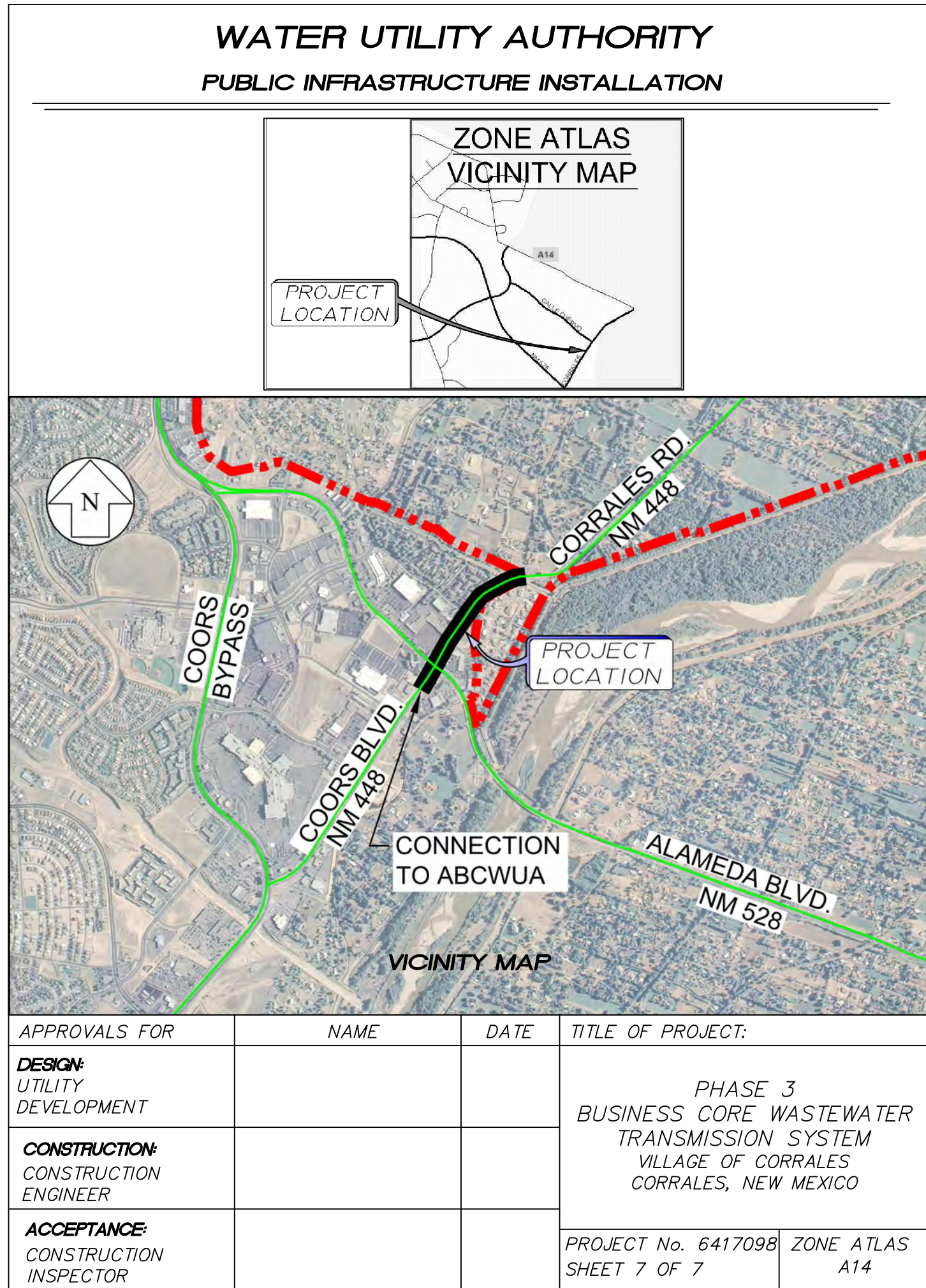
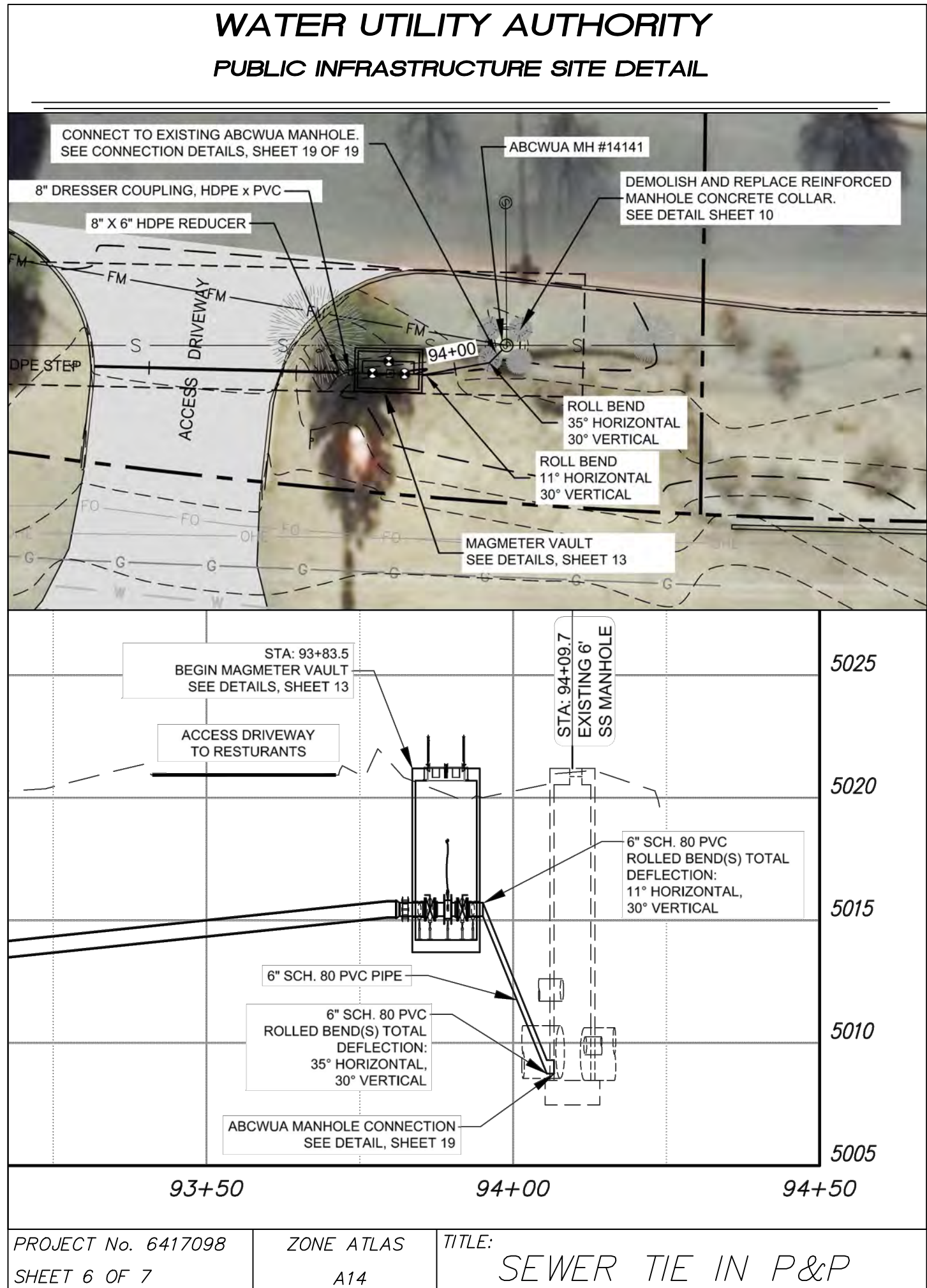
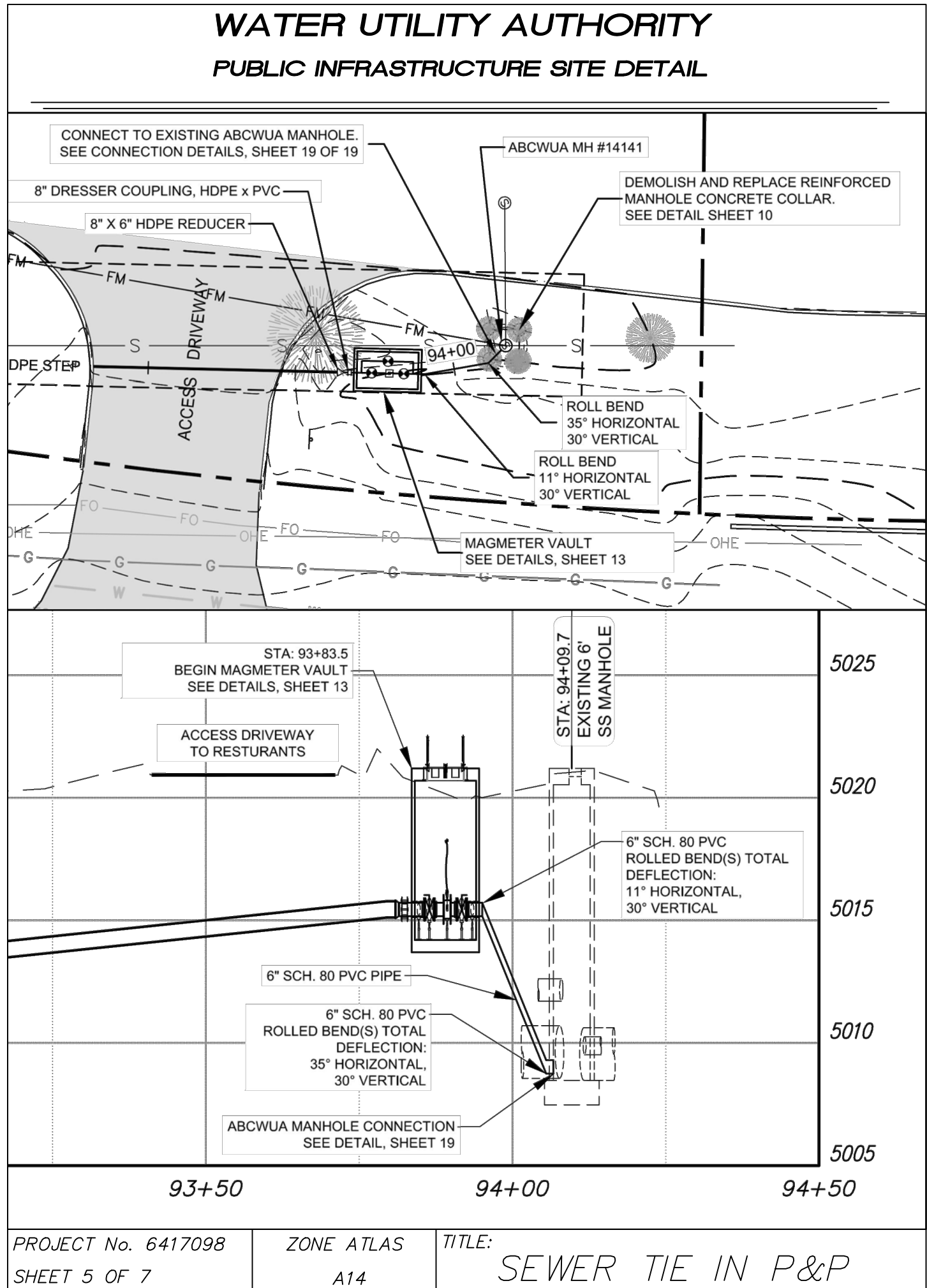
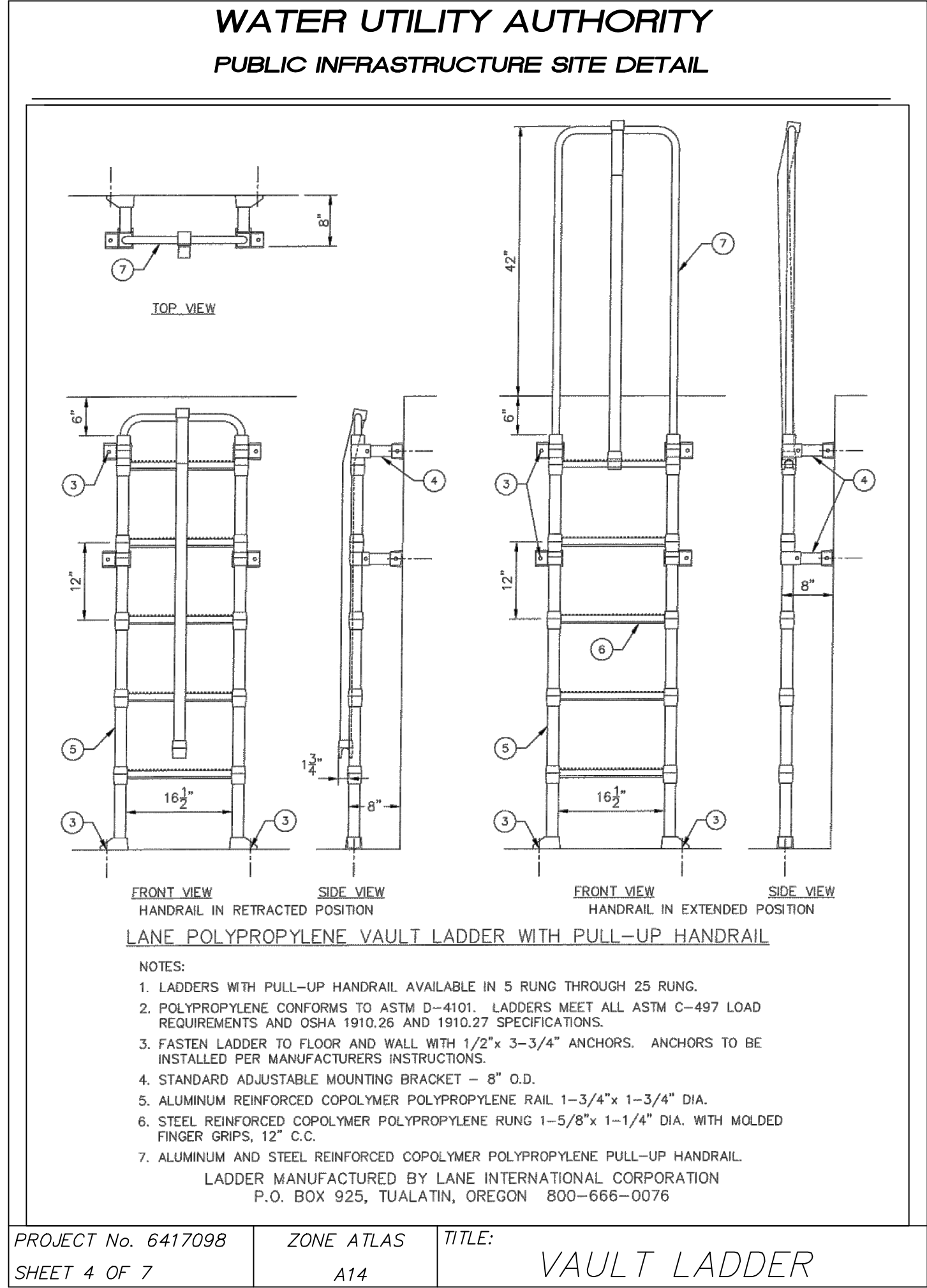
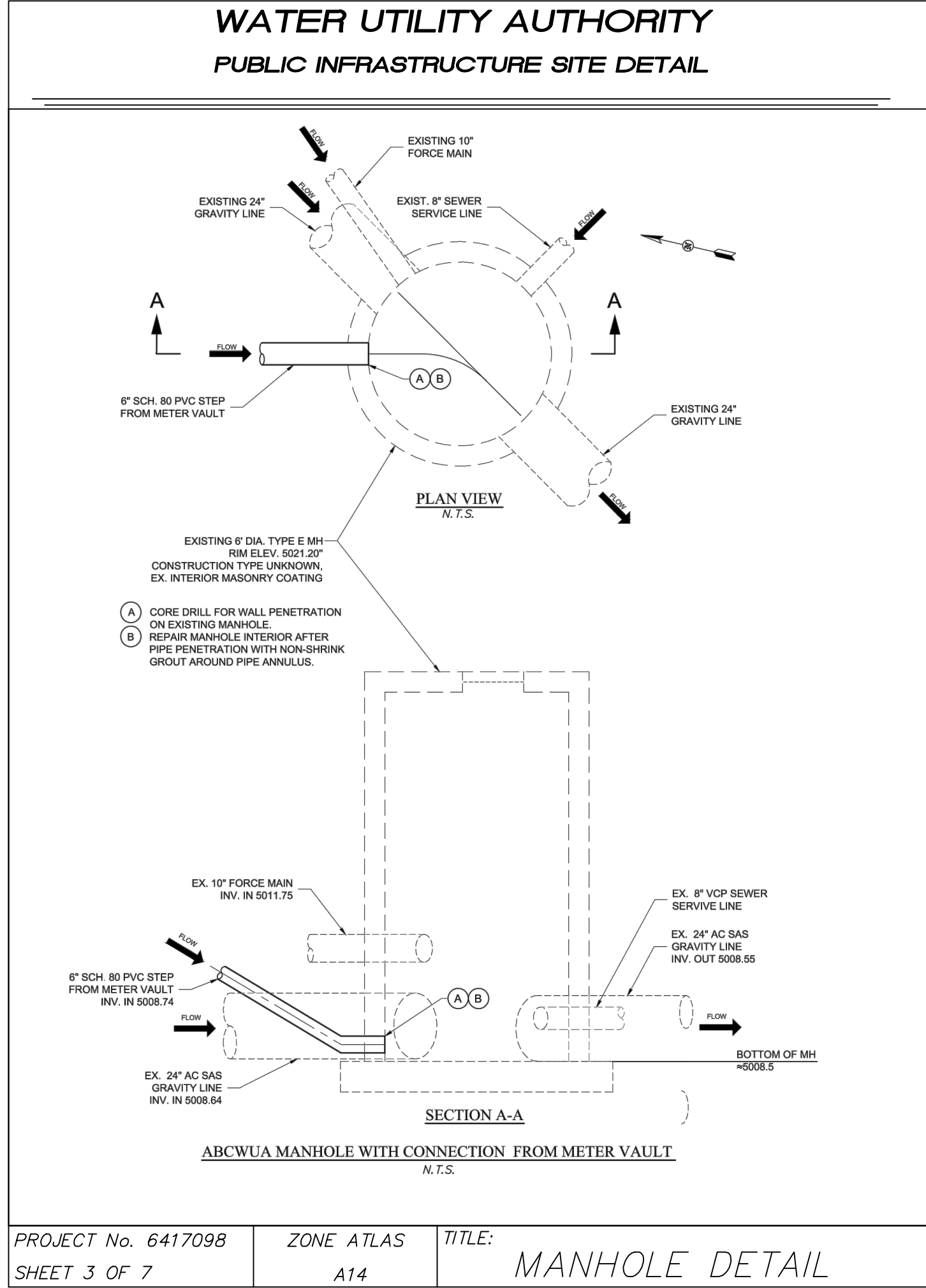
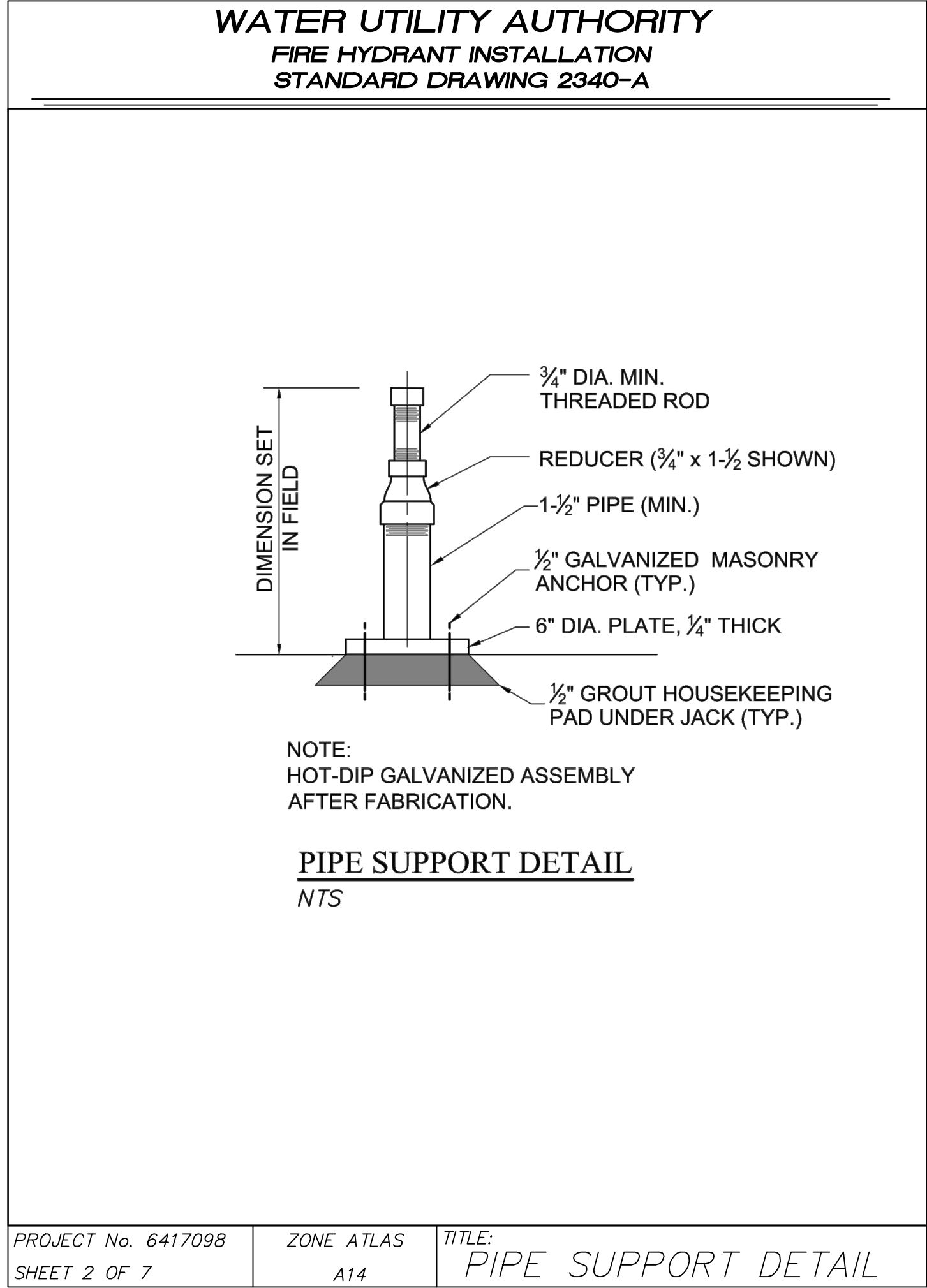
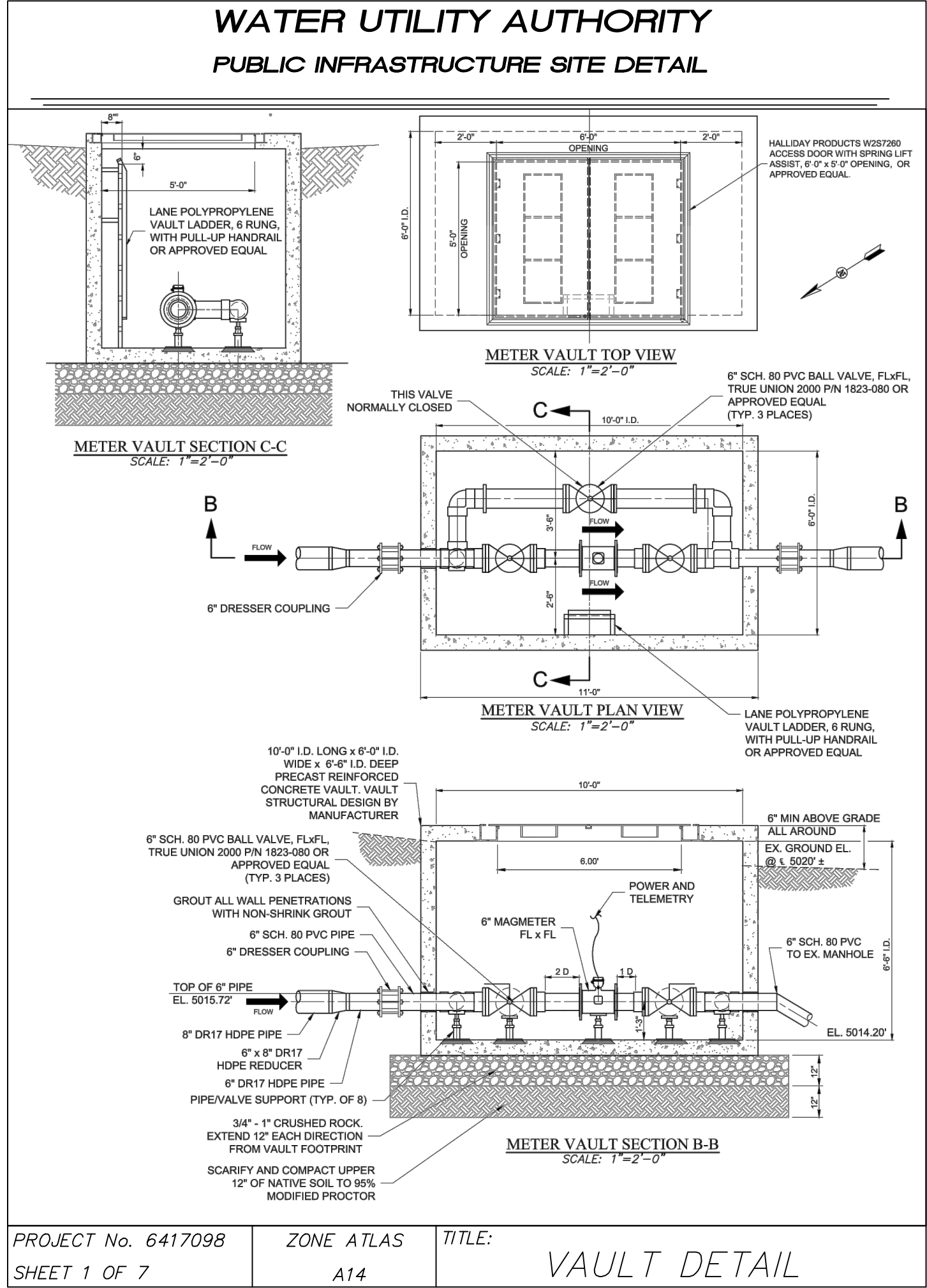
- PROVIDE AND INSTALL A NEW 16'-0" SQUARE STEEL POLE FOR MOUNTING OF THE SOLAR PANEL. REFER TO SOLAR PANEL POLE BASE DETAIL FOR CONCRETE BASE REQUIREMENTS. POLE SHALL BE AS MANUFACTURED BY VALMONT #DS330-S4000160-02-PP-BK, OR APPROXIMATELY EQUAL.
- PROVIDE AND INSTALL A NEW SOLAR PANEL, 20 WATT MODULE, ON POLE. SOLAR PANEL SHALL BE A MANUFACTURED BY POWERUP #BSP-2012 OR APPROVED EQUAL.
- PROVIDE AND INSTALL MOUNTING BRACKETS FOR THE INSTALLATION OF THE SOLAR PANEL TO THE STEEL POLE. COORDINATE WITH THE EQUIPMENT SUPPLIER ON MOUNTING BRACKET REQUIREMENTS.
- PROVIDE AND INSTALL GROUND RODS PER NEC SECTION 250-53 AND 250-56.
- PROVIDE AND INSTALL A UNISTRUT STAND, SIZED PER EQUIPMENT TO BE INSTALLED. REFER TO CONTROL PANEL RACK DETAIL.
- 1 1/4" CONDUIT FROM WET WELL TO CONTROL PANEL WITH SEAL OFF FITTING. SEAL AROUND CONDUIT PENETRATION AT WET WELL.
- 1 1/4" CONDUIT FROM TOTALIZER METER/SOLAR COMPONENTS PANEL TO POLE BASE. INSTALL 18/2 CABLE, LENGTH AS REQUIRED, BETWEEN THE SOLAR PANEL AND SOLAR CONTROLLER. COORDINATE FINAL CABLE SIZE WITH SOLAR PANEL MANUFACTURER'S RECOMMENDATION.
- PROVIDE A 5/8" X 8' COPPER -CLAD STEEL GROUND ROD IN VAULT. CONNECT BOTH PIPE FLANGES TO THE GROUND ROD WITH #8 COPPER CONDUCTORS. FROM THE VAULT GROUND ROD EXTEND A #8 COPPER CONDUCTOR, IN A 3/4" CONDUIT, UP TO THE GROUND ROD AT TOTALIZER ENCLOSURE AND TERMINATE.
- THE CONTRACTOR SHALL PROVIDE AND EXTEND THE CABLING BETWEEN THE METER AND THE TOTALIZER METER AND TERMINATE PER THE EQUIPMENT MANUFACTURER REQUIREMENTS.
- PROVIDE AND INSTALL A 24" X 24" X 8" DEEP, HINGED COVER, LOCKABLE, NEMA 4X STAINLESS STEEL ENCLOSURE. PROVIDE WITH A FAN MOUNTED IN THE LOWER SECTION AND BE THERMOSTATICALLY CONTROLLED VENTING THRU THE UPPER ENCLOSURE SIDE LOUVERS. MOUNT ON UNISTRUT STAND. THE TOTALIZER METER WILL BE PROVIDED BY THE OWNER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL THE FOLLOWING SOLAR EQUIPMENT ITEMS IN THE ENCLOSURE:
 - SOLAR CONTROLLER- AS MANUFACTURED BY MORNINGSTAR -#PRO-STAR-30 OR EQUAL
 - INVERTER - AS MANUFACTURED BY MORNING START-#SURESINE-300 OR EQUAL
 - 12 VOLT SEAL LEAD - ACID BATTERY - AS MANUFACTURED BY UPC -#UB12550 OR EQUAL
 - FUSING
 - GROUNDING



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TITLE: CORRALES PHASE 3 BUSINESS CORE WASTEWATER TRANSMISSION SYSTEM ELECTRICAL			
Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
		7/23/12	
City Project No.	Zone Map No.	Sheet	Of
		17	17





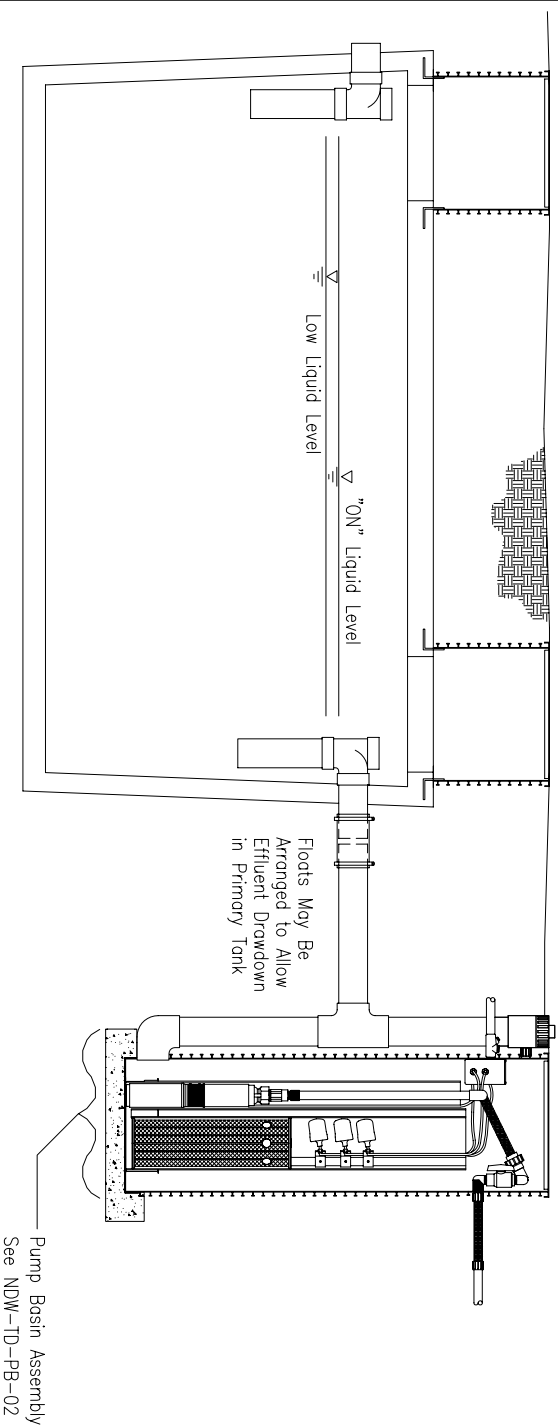
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Basin with Effluent Pumping System

Scale: 1" = 2'



Patents # 4,439,323 & 5,492,635
Foreign Patents May Apply
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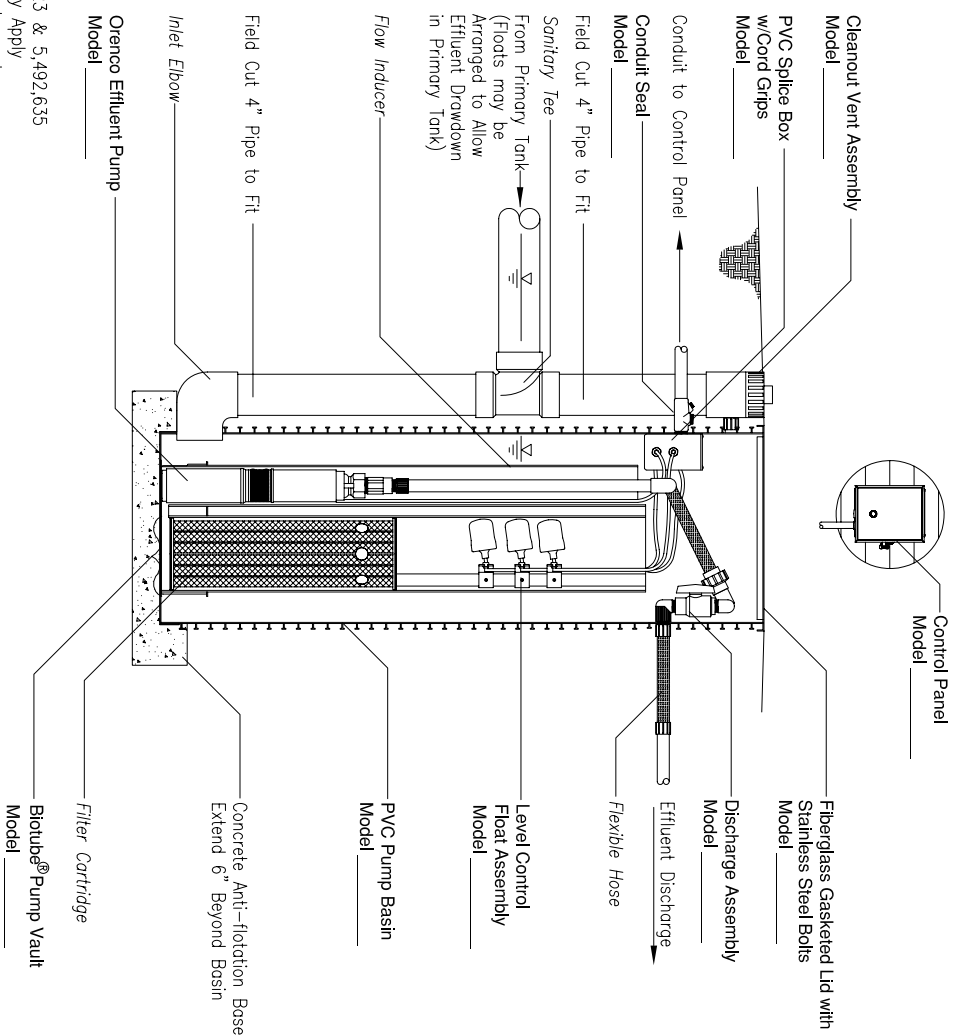
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Pump Basin with Effluent Pumping Assembly

Scale: 3/4" = 1'



Patents # 4,439,323 & 5,492,635
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