CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT ALBUQUERQUE, NEW MEXICO

FEBRUARY 2007

for the

EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BARELAS PUMP STATION NO. 32 MODIFICATIONS

BAR SCREEN INSTALLATION

P.O. BOX 1293 Albuquerque, New Mexico 87103

WATER RESOURCES

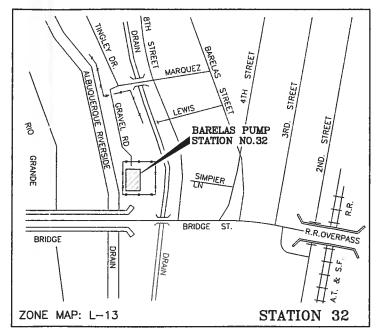
Molzen-Corbin & Associates Kenneth R. Muller P.E.

ELECTRICAL ENGINEERS

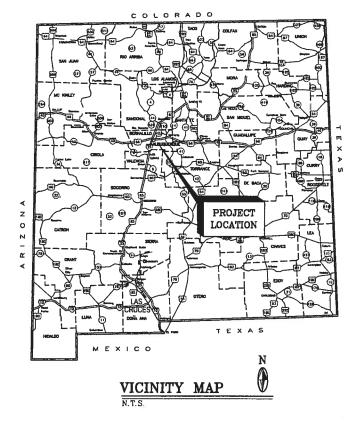
Molzen-Corbin & Associates Steven E. Sorenson P.E.

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A SOCIATES

MOLZEN-CORBIN

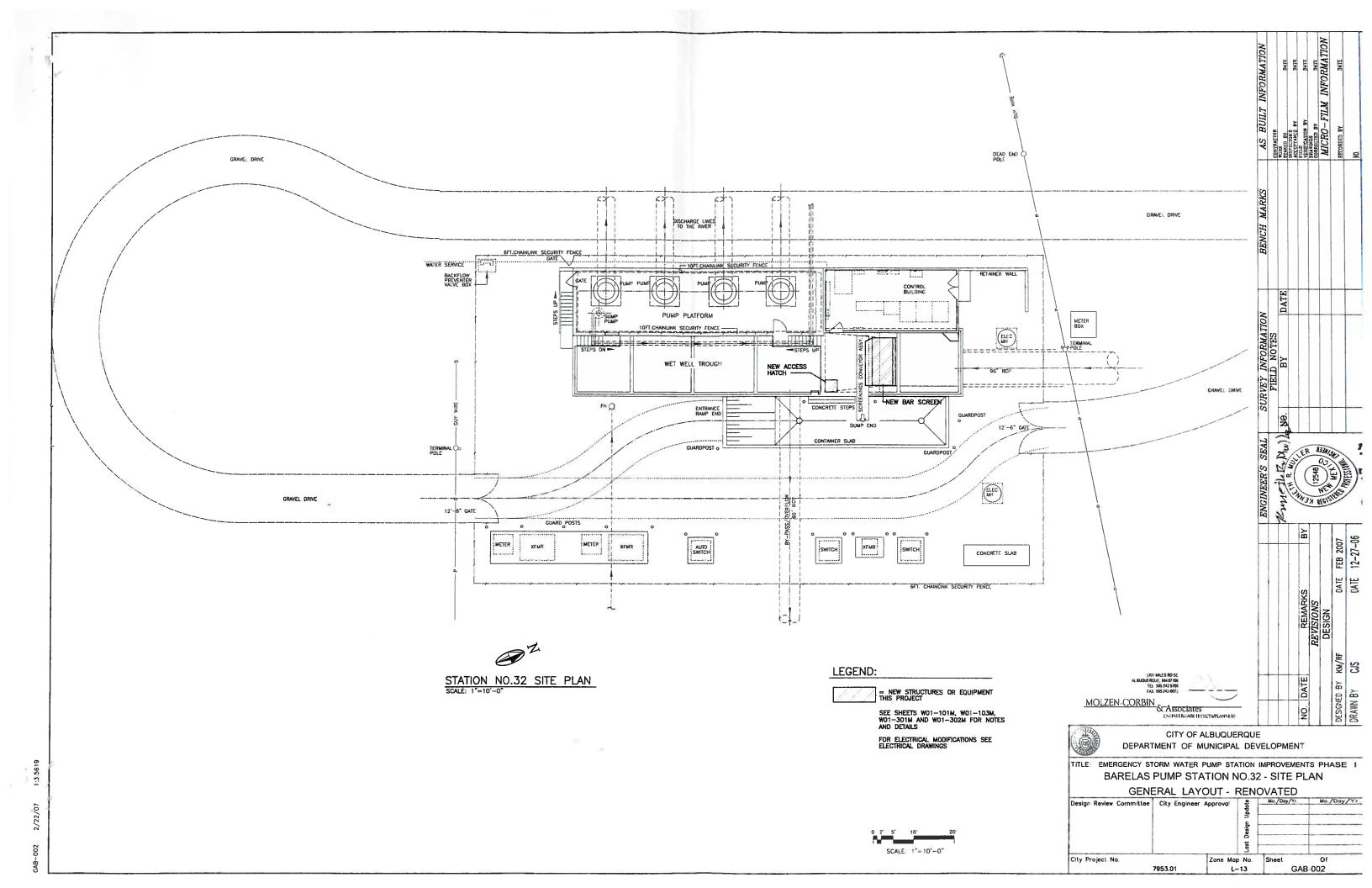
CASSOCIATES

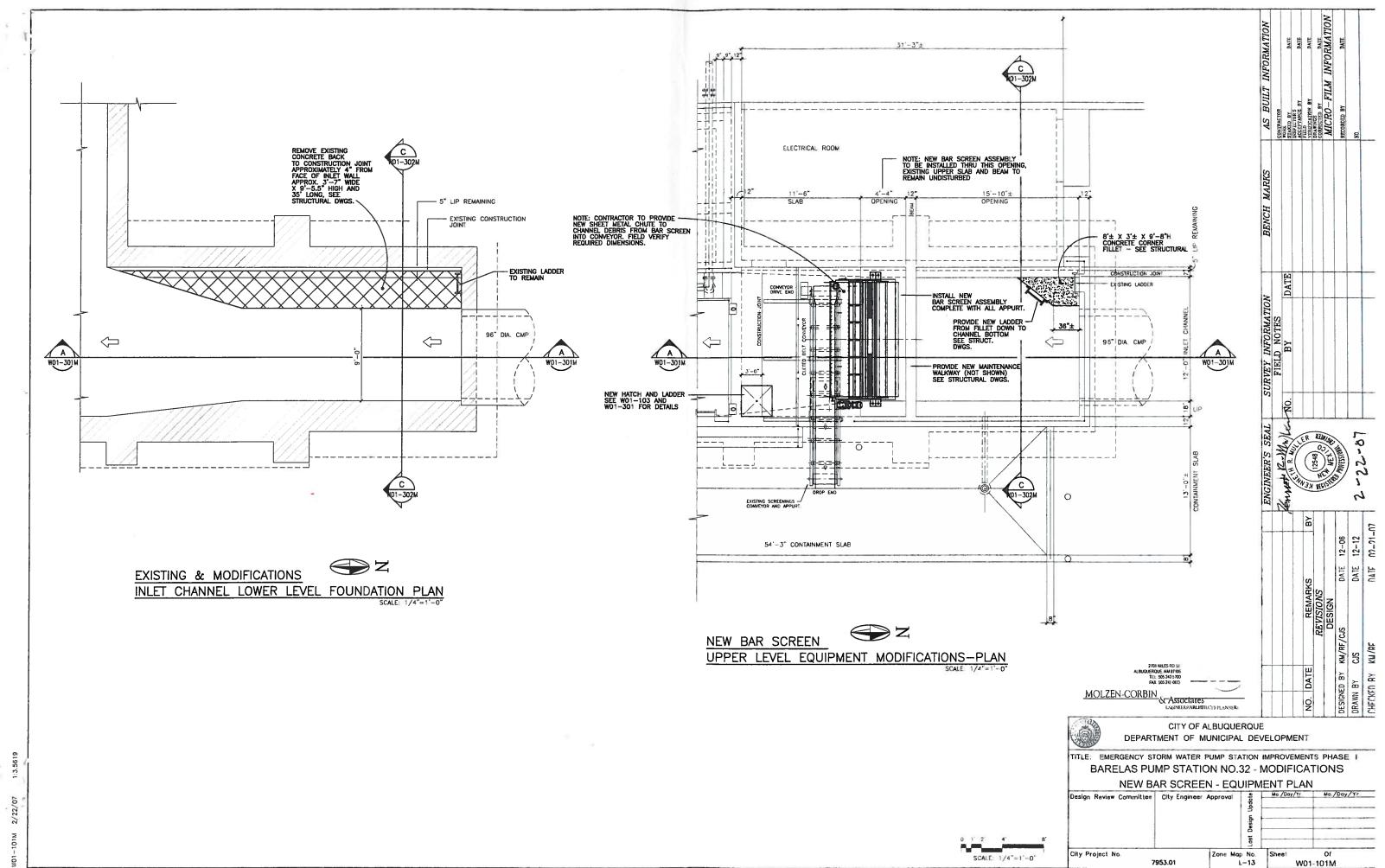
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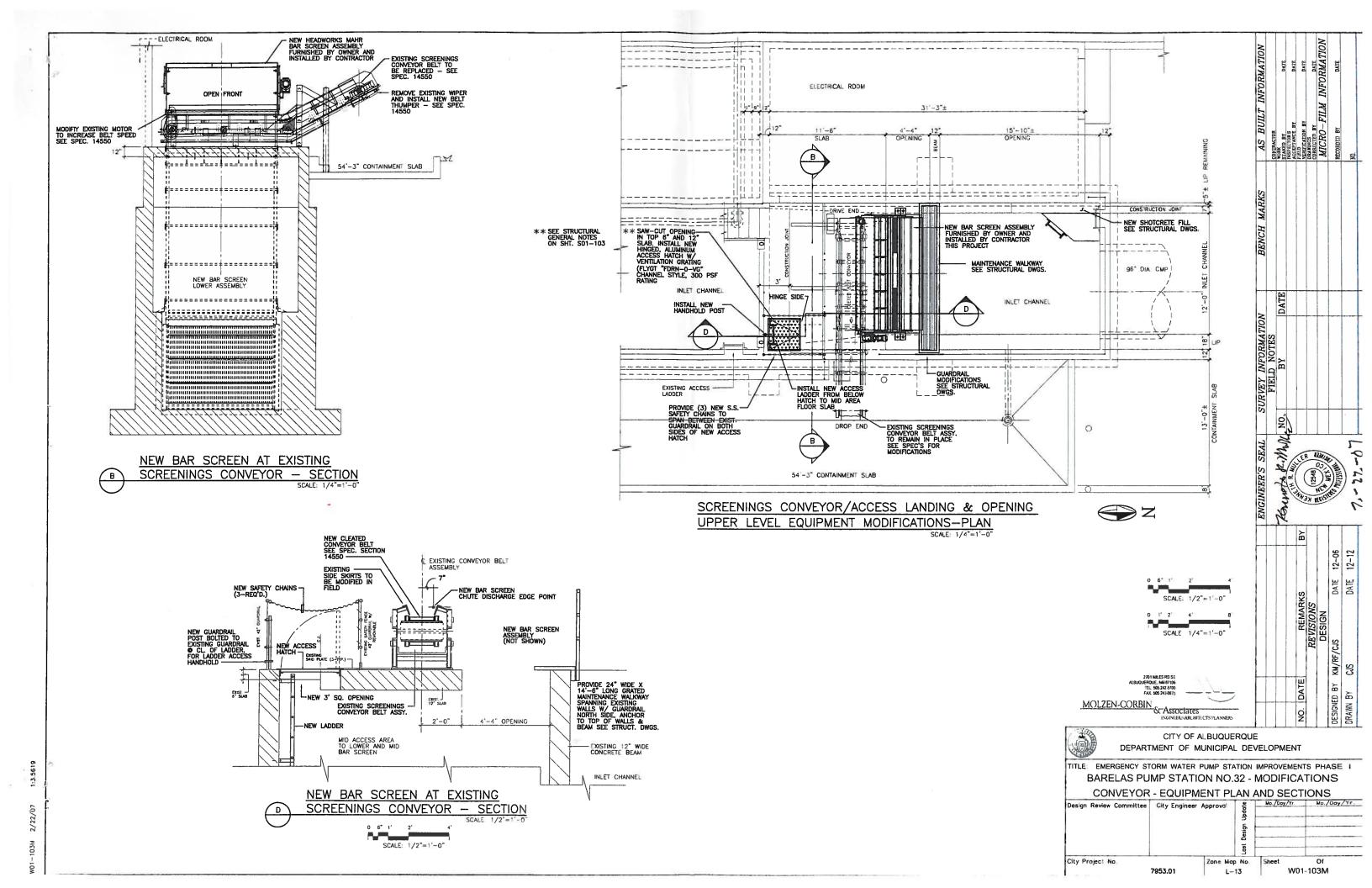
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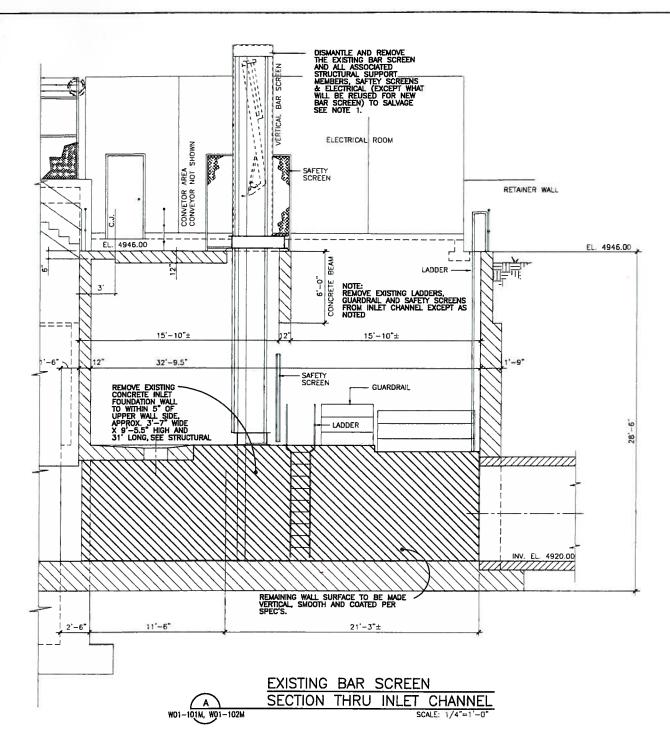


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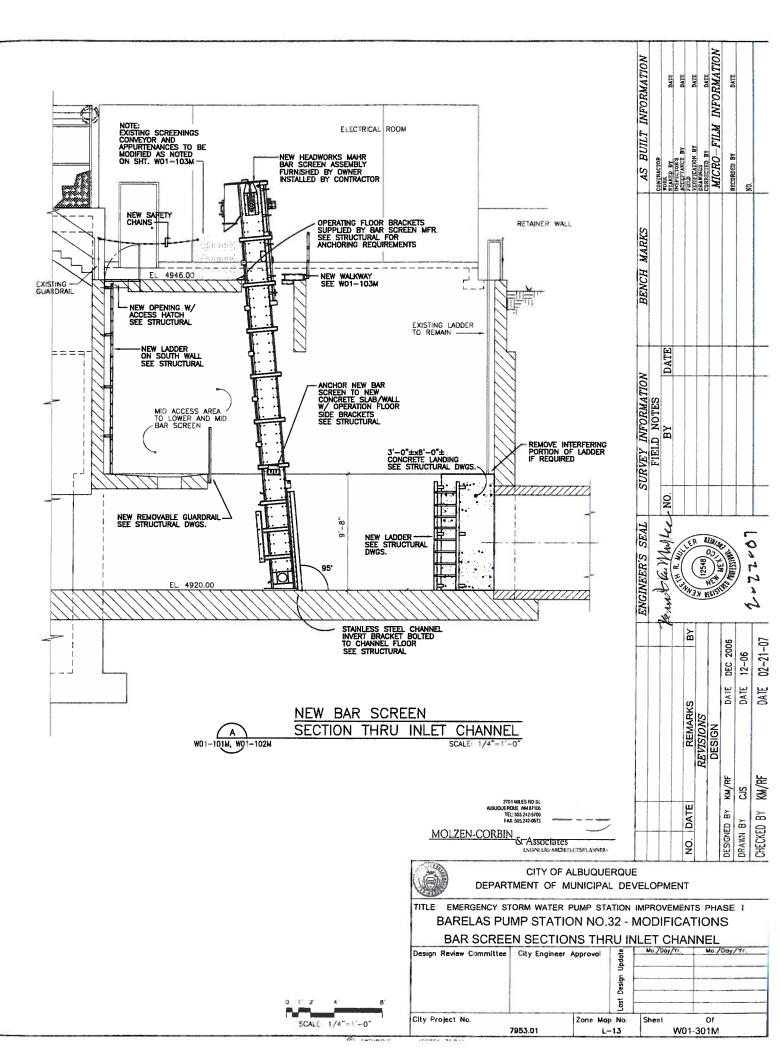


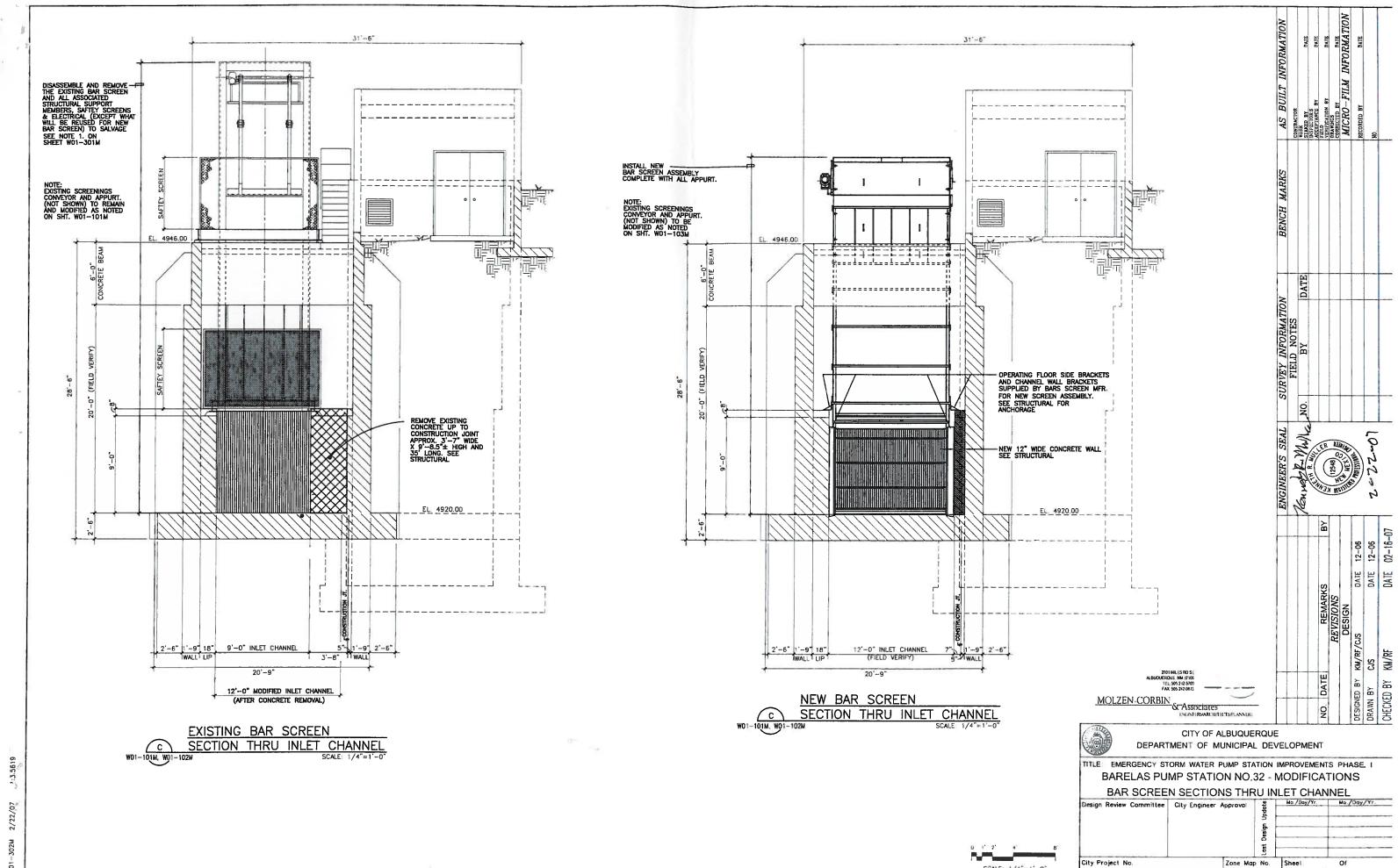




NOTES:

1. THE EXISTING BAR SCREEN WILL BE RE-INSTALLED AT THE BELL AND COMMERCIAL LIFT STATION NO. 37 UNDER A SEPARATE CONTRACT.
TRANSPORT ALL COMPONENTS OF THE EXISTING BAR SCREEN TO THE BELL AND COMMERCIAL LIFT STATION AND STORED AS DIRECTED BY THE OWNER.





SCALE: 1/4"=1'-0"

W01-302M

7953.01

STRUCTURAL DESIGN CRITERIA

BUILDING CODES

New Mexico Commercial Building Code (NMCBC) — 2003 edition American Concrete Institute, ACI 350 — Code Requirements for Environmental Engineering Concrete Structures, 2001 edition

VERTICAL LOADS

Use or Occupancy	Dead Load (1)	Live Load (1)
Grating	25 paf	100 psf

(1) Uniform load to be applied over the full tributary area of each structural member. Dead load includes weight of structure.

GENERAL REQUIREMENTS

- 1. VERIFICATION. Verify all dimensions, elevations and site conditions before beginning work. Notify Structural Engineer of any discrepancies. Beginning of work, or any succeeding phase of work shall be considered to be Contractor's certification that he has examined all ctor's certification that he has examined all ons under which work is to be done and that he
- 2. CONFLICTS AND QUESTIONS. If there are conflicts between different parts of the drawings or between the Drawings and the Specifications or if the Contractor has any questions about the design documents, he shall issue a Request For Information (RFI) to the Contracting Officer requesting clarification. Work in the area in question shall not proceed until the RFI has been answered.
- SUBSTITUTIONS. Do not make any substitutions without prior written approval. Provide manufacturer's approved product evaluation reports (ICBO reports) and a list of all proposed substitutions to Structural Engineer for review before fabrication.
- SIMILAR WORK. Where construction details are not shown or noted for any part of the work, such details shall be the same as for similar work shown on the Drawings.
- 5. SUBMITTALS AND REVIEW OF SUBMITTALS. The Contractor Submit NAS And review or Submit NAS. In a contractor shall schedule work and make submittals to allow adequate time for the review of submittals. The Contractor shall review all submittals before transmitting them to the Architect/Engineer for review. Submittals which have not been reviewed by the Contractor before being transmitted to the Engineer will be returned to the Contractor without
- PIPES, DUCTS, SLEEVES, CHASES, etc. Do not place pipes, ducts, sleeves, chases or any similar items in slabs, beams, walls, or other structural elements without prior written approval. Do not cut structural element for tion of any item without prior written approval.
- 7. PROTECTION OF EXISTING CONSTRUCTION. Take all measures necessary to protect existing construction adjacent to new construction. Locate and protect underground or concealed conduit, plumbing, or other utilities where new work is being performed.
- CONSTRUCTION LOADS. Distribute materials placed on roofs and framed floors evenly. Do not exceed the allowable loading for supporting members and their connections.
- 9. CONSTRUCTION METHODS AND PRODUCT SAFETY. Except where specifically noted otherwise, the contract Drawing and Specifications represent the finished structure and do not indicate methods, procedures or sequence of do not indicate methods, procedures or sequence or construction. Toke necessory precautions to maintain and insure the integrity of the structure during construction. Neither the Owner nor the Engineer will enforce safety measures or regulations. The Contractor shall design, construct and maintain all safety devices, including shoring and bracing, and shall be solely responsible for conforming to and enforcing all local, state and federal health standards, laws and regulations.
- 9. CHANGES TO THE STRUCTURAL DRAWINGS. Not permitted without prior written approval from Structural Engineer.

STRUCTURAL MATERIALS

CONCRETE

Compressive strengths

USAGE REQUIRED STRENGTH (psi) Piotform/Landing (Provide 6 standard 4"#x8" cylinders to be tested, 3 at 7 days and 3 at 28 days) 4000 psi @ 28 dova

See GENERAL NOTES - SHOTCRETE
CONSTRUCTION on this sheet for

4000 psi @ 7 days

Cement: ASTM C150, type I low alkali or II low alkali
Fly Ash: ASTM C618, type F
Aggregates: ASTM C33, nominal 1° maximum
Air Entraining Agent: ASTM C260, entrained air 4 to 7% by volume
High Range Water Reducing Admixtures: ASTM C494, Type F
Set—Controlling Admixtures: ASTM C494, Type A, D or E
Nominal unit weight: 140 pcf
Minimum Weight of Cementitious Material: 470 lb/yd³
(portional cement plus 10%—25% flyach)
Maximum water/cementitious material ratio: 0.40
Slump (without superplasticizers): 1 to 4 inches

Conform to requirements of ACI 301 for curing and protection of

Contractor shall submit mix designs and test data for review to the Engineer prior to start of concrete work. Both mix designs and test reports supporting mix design shall have been completed within the six month period preceding the first placement of concrete. At a minimum, the report shall contain the following:

- 1. Identification of organization which prepared the mix design
- report.

 Identification of concrete class/compressive strength.

 Quantities of each material used in trial mix.

 Water/cementitious material ratio.

- Gradation of aggregates
 Certifications that all materials meet project and appropriate
- ASTM Specifications.
 Show clearly on submittals which admixtures and quantity of admixture (if any) are to be used. Use all admixtures in strict compliance with manufacturer's directions.

CONCRETE REINFORCING

Typical Reinforcing Bars: ASTM A615, deformed, Grade 60

Welded Wire Fabric: ASTM A185, furnished in flat sheets

CONCRETE ACCESSORIES

Non-Shrink Grout: ASTM C1107, "Masterflow 928 Grout" by Master Builders or approved diternate Epoxy Adhesive: ASTM C881 and suitable for use on dry or damp surfaces. "881 LPL Epoxy" by The Burke Company or approved

Bonding Agent: Polyvinyl acetate or acrylic base, rewettable type.

"Everbond" by LetM Construction Chemicals or approved alternate.

Adhesive Anchors: "HVA" by Hitti, Incorporated or approved alternate.

STRUCTURAL AND MISCELLANEOUS STEEL

Hot-rolled Channels, Angles and Plates: ASTM A36, Fy = 36,000 psi Pipe: ASTM A53, type E or S, grade B, fy = 35,000 psi Galvenizing: ASTM A153 and ASTM A386 Stoinless Steel: IFT-104, Grade 304

BOLTS, NUTS AND WASHERS

Steel-to-Steel Connections Bolts: ASTM A325, tension control Nuts: ASTM A563, grade C, heavy hexagonal Washers: ASTM F436

Other
Bolts: ASTM A307, grade A, hexagonal heads
Nuts: ASTM A563, grade A, hexagonal
Washers: ASTM F436

ABBREVIATION DEFINITION

ABBREVIATION DEFINITION

GENERAL NOTES - EARTHWORK

GENERAL. Requirements for earthwork, including excavation, fill and backfill, unless specifically contained in these notes and the notes on the drawings shall be in accordance with the 2003 edition of the New Mexico Commercial Building Code.

SITE CLEARING. All vegetation and other organic matter, powement, existing construction and man-mode fill (except as otherwise directed), and any other unsuitable material shall be removed from site and properly disposed of.

EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing material as required to meet site grading elevations. See the schematic details shown on the plan sheets for the extent of excavation and fill/backfill required at structures. Do not undercut existing construction. Provide positive surface drainage away from excavations and promptly remove any surface water which may enter the excavations. Remove any subgrade material and any previously placed fill or backfill which has been softened or otherwise damaged by moisture and replace with property placed and compacted fill or backfill. Slope sides of excavations as required for slope stability and provide barricades, lights and warning signs as necessary for the protection of the public, construction personnel, and property.

PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleaned and grubbed, the subgrade shall be scorffled, disced or otherwise locsened to a minimum depth of 8 inches, moistened or dried as necessary (to within + or - 2 percentage points of optimum moisture content) and compacted to not less than 95% of maximum density as determined by ASTM D1557.

FILL AND BACKFILL MATERIAL. All fill and backfill material shall be clean, non-plostic, non-chostive, free of organic or frozen matter and any other unsuitable material, have a maximum size of 2 inches, and is to be approved by the Engineer before use. Site material may be used if it has the required properties otherwise, imported material or a uniform mixture of site and imported material having the required properties shall be used.

PLACING AND COMPACTION OF FILL AND BACKFILL. Fill and backfill beneath and adjacent to the structure shall be placed in uniform layers not to exceed 8 inches in thickness before compaction and shall be compacted to not less than 95% of nominal maximum shall be compacted to not less than 95% of nominal maximum density. All compaction shall be performed when the material to be compacted is at its optimum moisture content (plus or minus 2 percentage points). If moisture must be added to the soil mass to be compacted, add required water and mix as necessary to achieve uniform moisture content. Compaction shall be performed using appropriate equipment and methods as necessary to achieve the required density percentages without damage to existing construction. Do not use ponding, flooding, jetting or similar matheds to said in compacting.

QUALITY CONTROL. Maximum deneities and optimum moisture contents shall be determined in accordance with ASTM D1557. Density of in-place material shall be determined in accordance with ASTM D1556 or D2922. Gradations of materials shall be determined in accordance with ASTM D422. Liquid (imits, plastic limits and plasticity indices shall be determined in accordance limits and plasticity indices shall be determ with ASTM 04318.

GENERAL NOTES - CONCRETE CONSTRUCTION

- GENERAL Unless otherwise shown or specified, supply and construct concrete in accordance with ACI 301 "Specifications for Structural Concrete for Buildings" and ACI 318 "Building Code Requirements for Structural Concrete". Except as otherwise shown, detail reinforcing in accordance with the latest edition of the ACI Detailing Manual and install in accordance with the latest edition of the CRSI Placing Manual.
- REINFORCING. Hooks in reinforcing which are not otherwise detailed shall be standard ACI hooks. Splices in reinforcing which are not otherwise detailed shall be standard ACI Class B tension lap splices but splice lengths shall be not less than 24 inches.
- 3. PLACEMENT OF REINFORCING AND OTHER ITEMS. Reinforcing, dowels, bolts and any other inserts shall be fostened securely into position before concrete is placed. Drilled—in expansion anchors shall not be used except where specifically shown on the drawings. The spacings shown for reinforcing and other anchorage items are maximums. Provide and install install a sufficient number of items so that the specings shown are not exceeded. The first and last items in a group of uniformly spaced items shall be located at not more at not more than one-half of the typical specing nor 12 inches inches from the end of a structural element.
- 4. CONTINUITY OF VERTICAL REINFORCING. No splices permitted except as shown. Provide dowels from footings into walls or columns at vertical bars in walls or columns. Except as otherwise shown, dowels shall have standard ACI 90 degree books at footings and vertical lengths of dowels shall be of sufficient length to provide ACI Class B Class B tension lap splices with vertical bars.
- 5. CONTINUITY OF HORIZONTAL REINFORCEMENT.
- a) Footings, walls, turned-down slab edges: Bars shall be lapped not less than 32 bar diameters nor 24 inches. Except where bar lengths are given, reinforcing is to be continuous for full length or width of member less required concrete covers. Do not splice transverse footing bars. Additional reinforcing shall be intersections and other discontinuities as shown in the details on Sheet S01-102 and elsewhere on the drawings.
- 6. CONSTRUCTION JOINTS.
- a) Stabs-on-grade: Construction joints shall be tocated where shown on the drawings except as otherwise approved by the Engineer.
- h) Footings, walls, turned-down slabs: Construction joints shall be b) Footings, walls, turned—down slabs: Construction joints shall be placed at locations to be selected by the Contractor subject to the following requirements. There shall be no construction joints within 5 feet of any corner or intersection. Construction joints in walls shall be offset from construction joints in footings by not less than 5 feet. Splicss in reinforcing reinforcing shall not be located within 5 feet on any construction joint in the concrete. Horizontal and vertical keyways not less than 1-1/2 inches deep by 4 inches wide shall be provided at all joints in walls and footings.
- c) Elevated stabs: Construction joints not permitted except as shown.
- 7. EMBEDDED PIPES AND CONDUITS. No pipes, conduits or any other items used by other trades except those shown on the Structural Drawings shall be embedded in concrete or pass through concrete members without the prior approval of the Engineer. See SPECIFICATIONS for additional requirements.
- CONCRETE COVER. Provide concrete cover over reinforcing as noted below. Tolerance on position of reinforcing is ply\us or minus 3/8°.
- a) Concrete cast against and permanently exposed to earth:
- b) Concrete cost in forms but exposed to earth or weather in service: 2 inches
- c) Concrete cast in forms but not exposed to earth or
- 1) Walls and slabs: 1 inch.
- 2) Beams and columns.
- i) Primary reinforcement: 2 inches. ii) Ties and stirrups: 1-1/2 inches.

GENERAL NOTES - SHOTCRETE CONSTRUCTION

- 1. GENERAL. Except as otherwise noted or shown, all SHOTCRETE CONSTRUCTION GENERAL. Except as otherwise noted or shown, all SHOTCRETE CONSTRUCTION shall be in accordance with the CONCRETE CONSTRUCTION notes on this sheet and the notes, sections and details elsewhere on the Structural drawings, and the requirements contained in the current edition of American Concrete institute Specification for Shotcrete (ACI 506.2). In the event of conflict any two or more of these documents, the oreder of precedence shall be the sections and details on the Structural drawings, followed by the requirements of ACI 506.2, followed by the CONCRETE CONSTRUCTION notes on this sheet, unless otherwise approved by the Structural Engineer.
- 2. QUALITY ASSURANCE
- Preconstruction Testing. Prior to beginning construction, each nozzleman shall prepare a test panel as specified in ACI 506.2. If, during the

shall prepare a test panel as specified in ACI 506.2. If, during the course of construction, new nozzlemen are proposed for use on the project, they shall shall also prepare a test panel.

b. Construction Testing. During the course of construction, each nozzleman shall prepare a test panel as specified in ACI 506.2 for each 50 cubic yards of shotcrete placed.

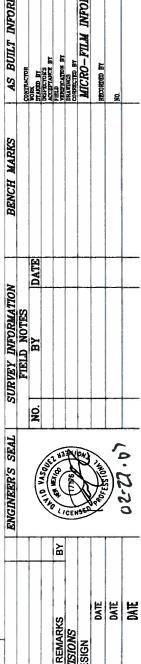
c. Shotcrete Core Grades. Specimens cut from test panels prepared and cured as specified in ACI 506.2 shall be acceptable only if they are Grade 1. If quality of cores is less than Grade 1, then the nozzleman who prepared the cores shall not be used to place shocrete until he has demonstrated by the preparation of new test panels that he is capable of producing shotcrete of the required quality. Shotcrete in place which is represented by the substandard cores shall be removed and replaced unless repair procedures approved by with results removed and replaced unless repair procedures approved by with results acceptable to the Structural Engineer can be and are made.

3. BATCHING AND MIXING

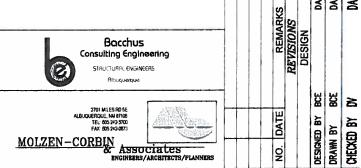
 General. Use batching and mixing equipment capable of proportioning and mixing the required materials to produce shotcrete of the required quality.
b. Shoot dry-mix shotcrete within 45 minutes after batching or

- predampening.

 c. Shoot wet-mix shotcrete material within 90 minutes after batching.
- SURFACE PREPARATION. Prepare surface of earth, rock, concrete and forms against which shotcrete is to be placed as specified in ACI 506.2. Roughen and clean surfaces as specified, install reinforcing and apply bonding agent
- 5. FINISHES. Finish surfaces of shotcrete to match surfaces of adjacent cast-in-place concrete except as otherwise directed by the Engineer.
- CURING. Cure shotcrete by applying an approved curing compound or by continuous sprinkling for a period of not less than 7 days.
- 7. PROTECTION. Protect shotcrete from damage do to any source during the full life of the construction project. Repair any damaged areas as directed by and to the satisfaction of the Engineer. If in the opinion of the Engineer, satisfactory repairs can not be made, remove the damaged area without damaging existing construction and replace to the satisfaction of the Engineer.



RICA





CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT

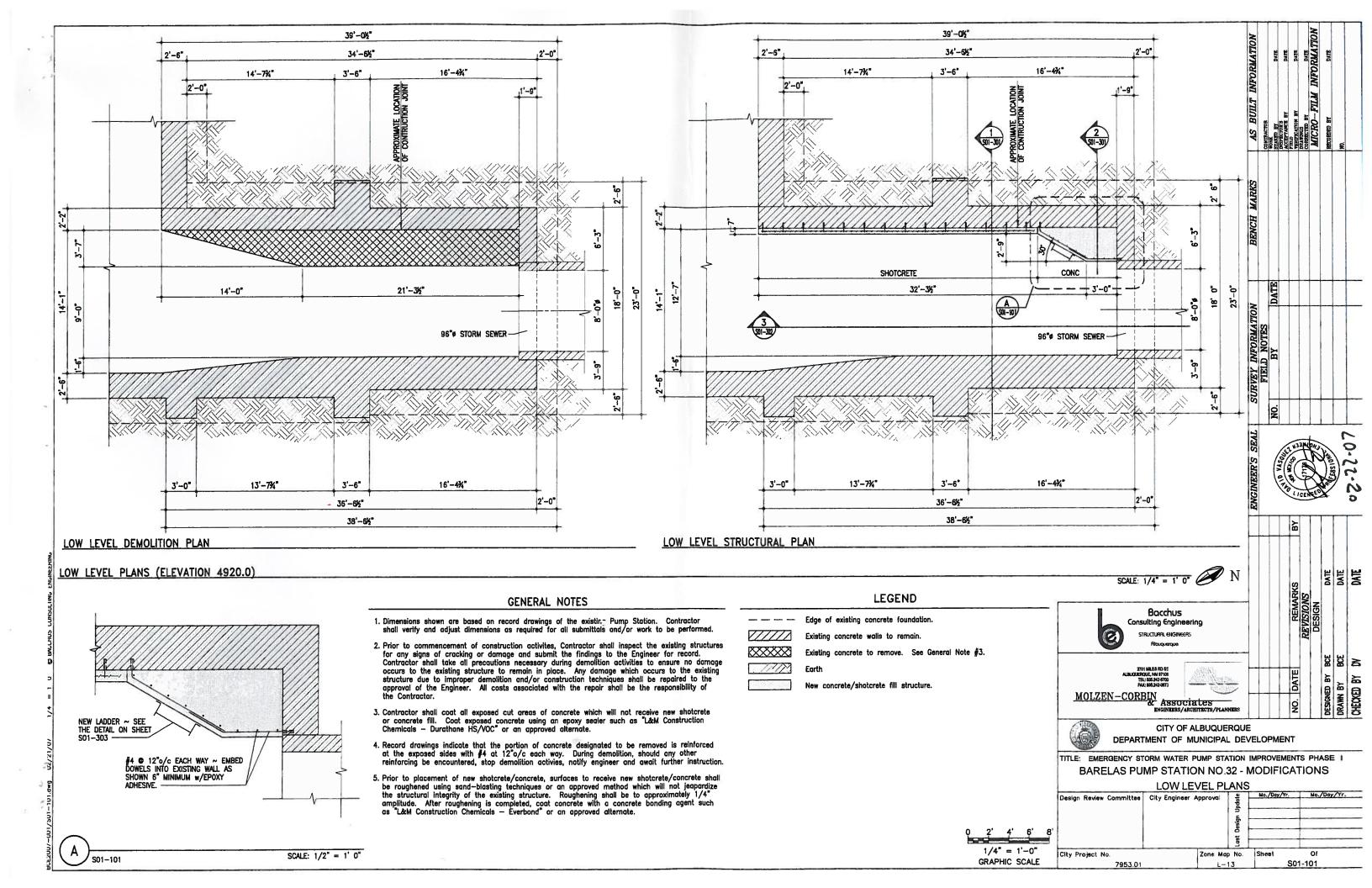
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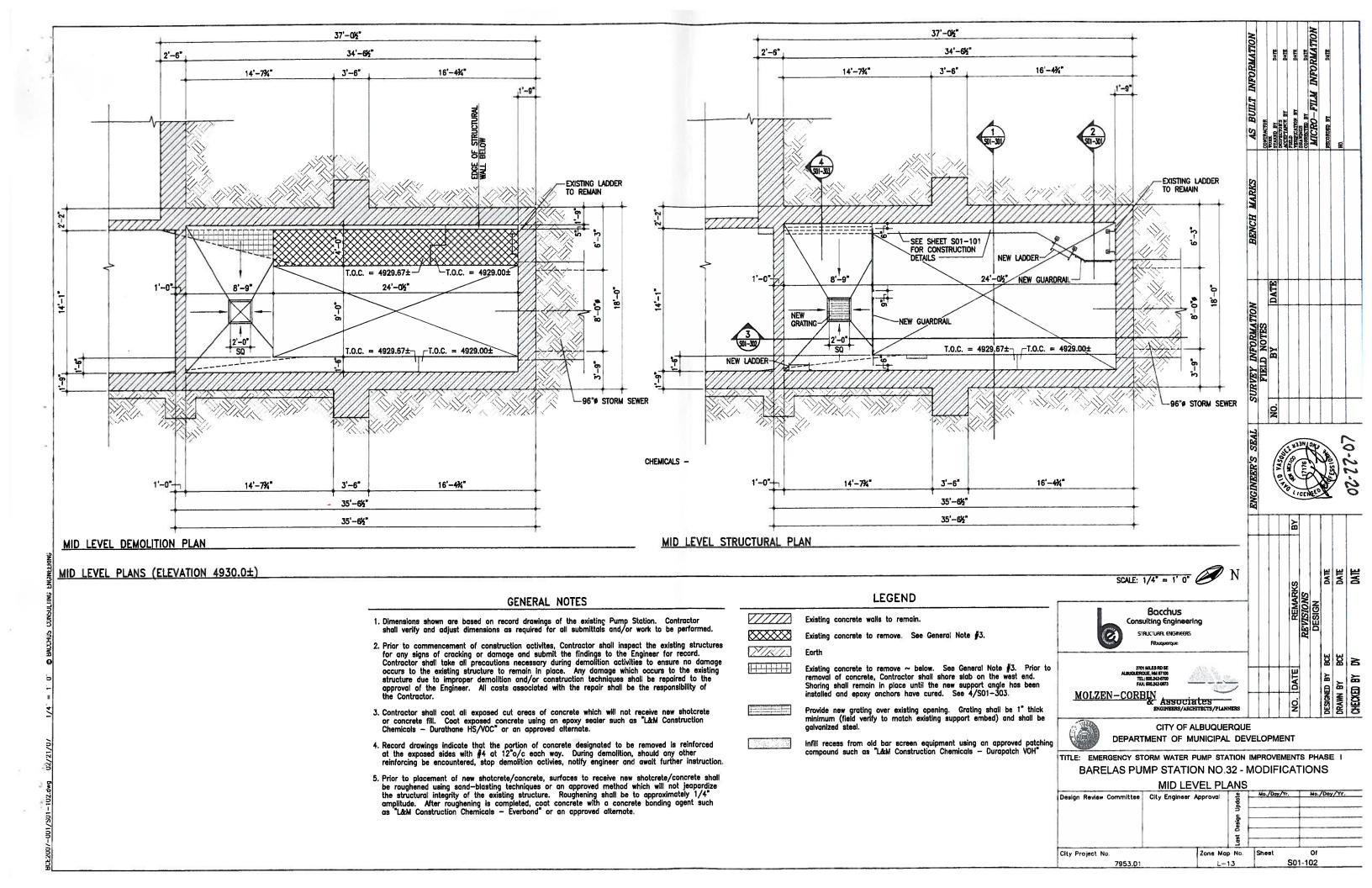
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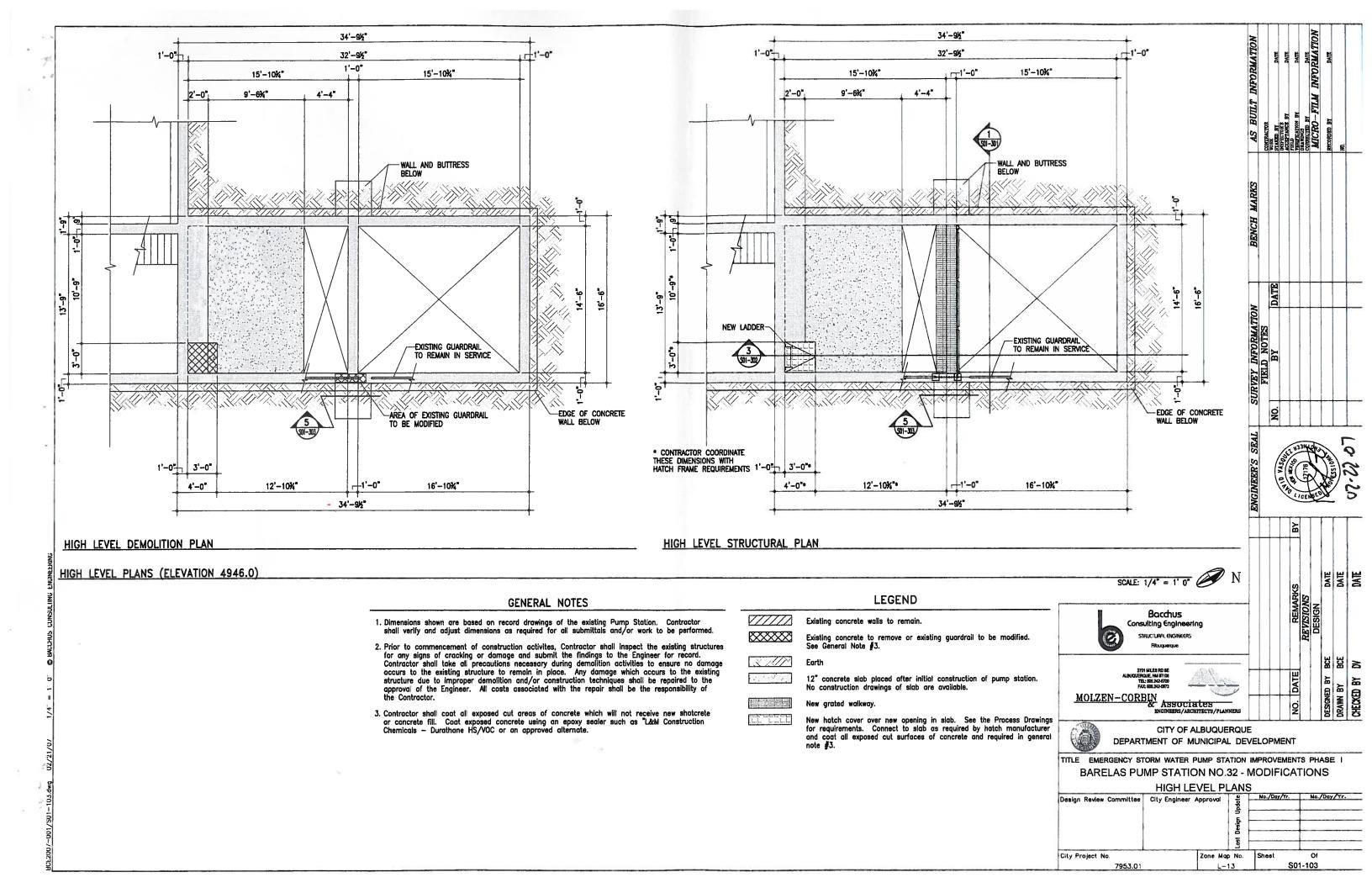
STRUCTURAL ABBREVIATIONS ABBREVIATION DEFINITION

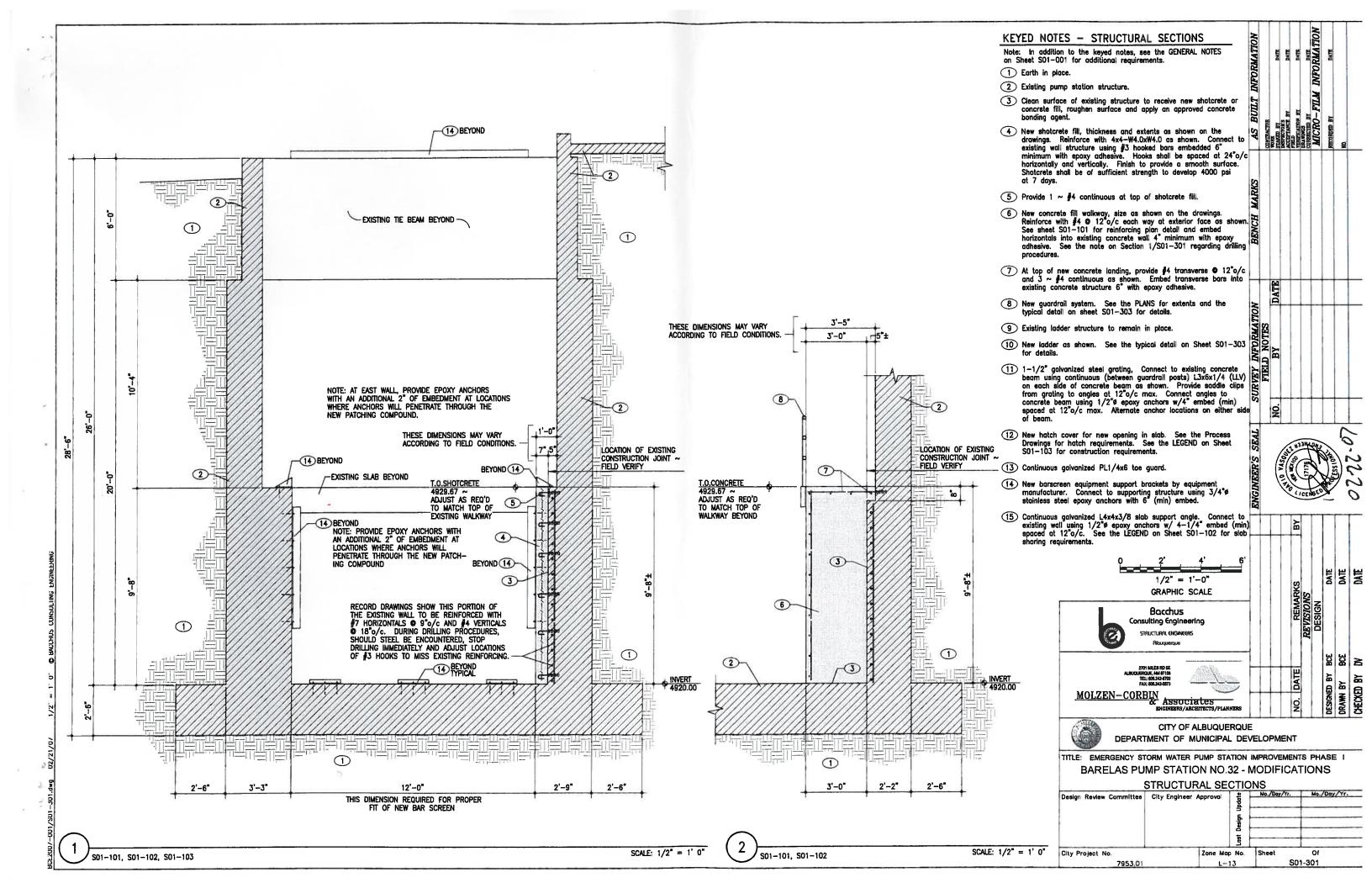
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BRG BTM BTWN	Bearing Bottom Between	FNDN	Foundation	o/c OPNG	On Center Opening	T.O.W. TRANSV TYP	Top of Wall Transverse Typical
CJ CLR CONC	Construction Joint Clear Concrete	GA GALV HORIZ	Gage Galvanized Horizontal	PL psi	Plote Pounds per Square inch	U.O.N.	Unless Otherwise Noted
CONST	Construction Continuous	H.S.B. JNT	High Strength Bolt Joint	REINF REQD	Reinforcing Required	VERT	Vertical
DIM DTL DWG DWL	Dimension Detail Drawing Dowel	L LLV LONGIT	Angle Long Leg Vertical Longitudinal	SIM SLV SQ	Similar Short Leg Vertical Square	w/, w/o W	With, Without Wide Flange (Beam) Welded Wire
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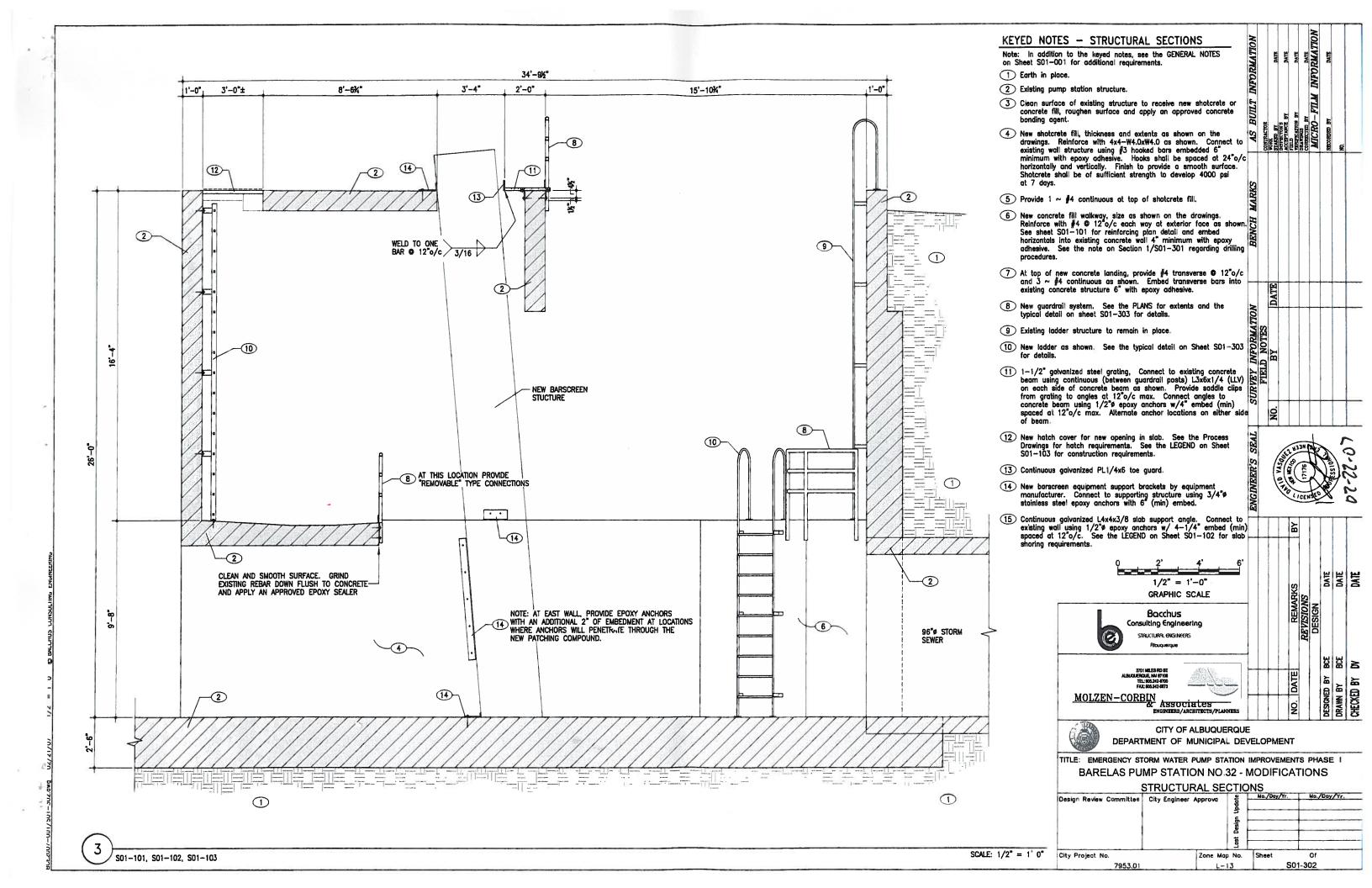
ABBREVIATION DEFINITION

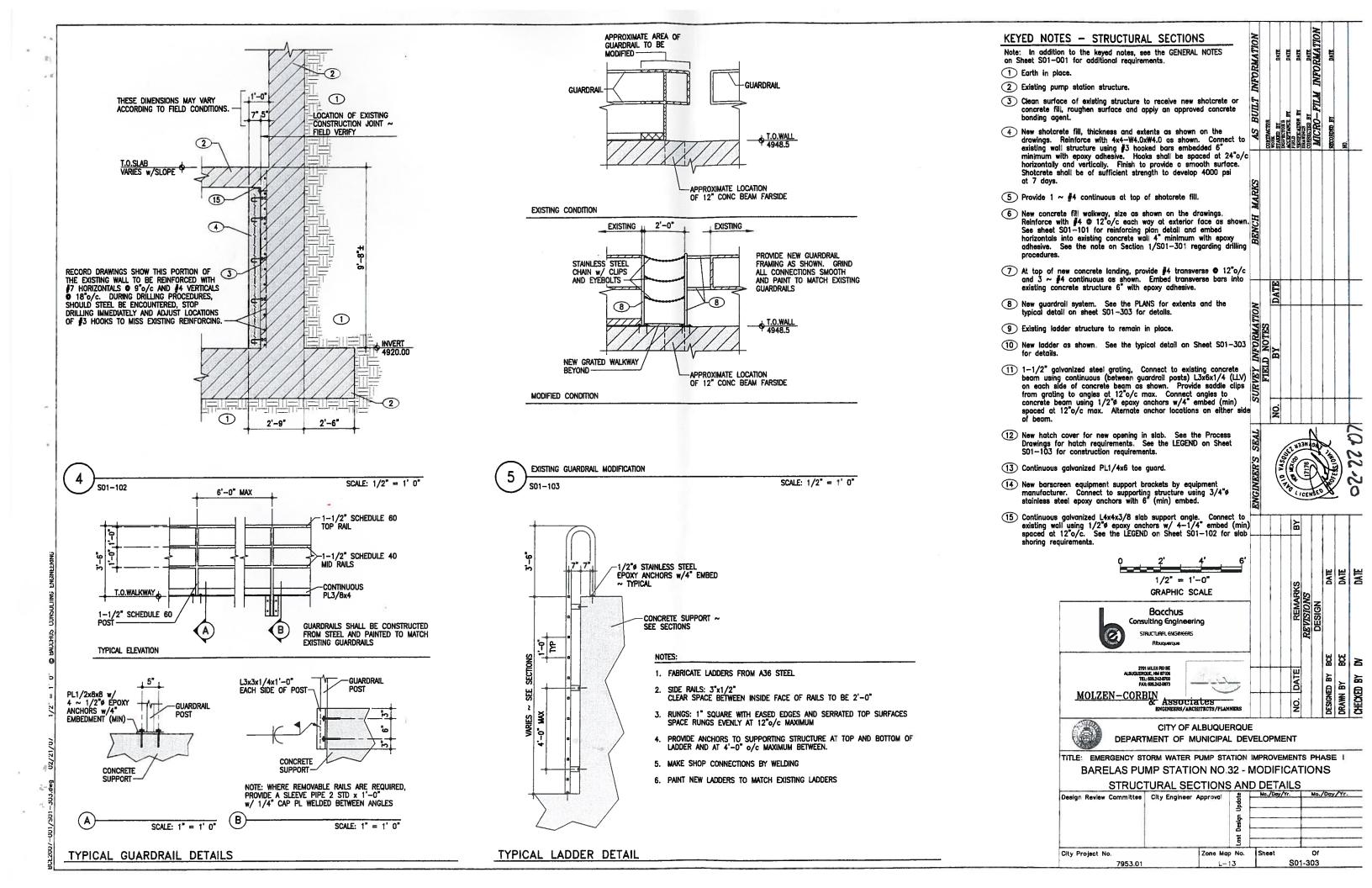


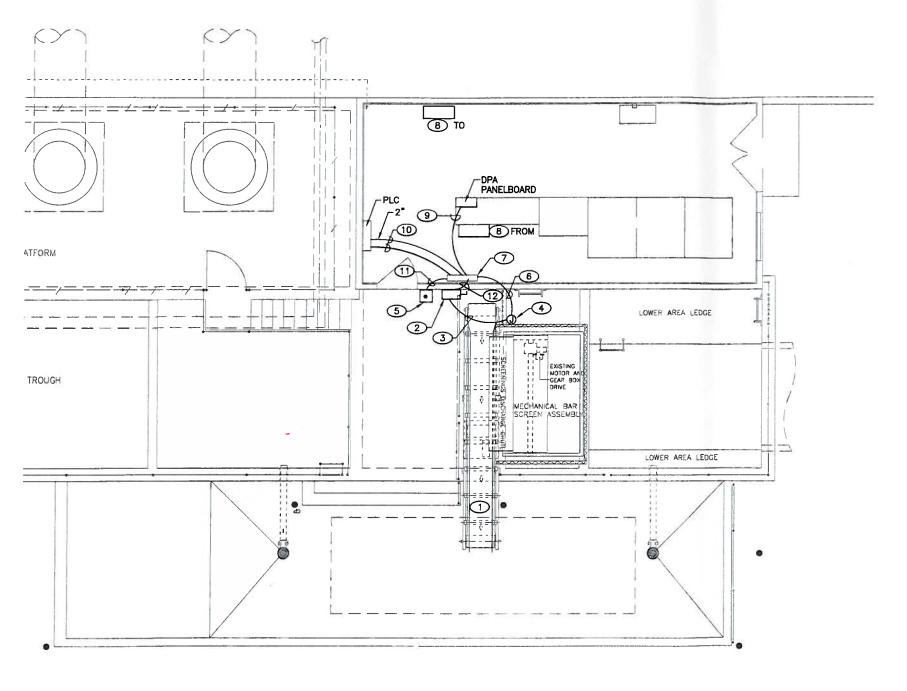












ELECTRICAL DEMOLITION PLAN SCALE: 1/4"=1'-0"



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