

APRIL 2008

EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I

BELL STATION NO. 37 MODIFICATIONS

RELOCATED BAR SCREEN ASSEMBLY & INSTALLATION

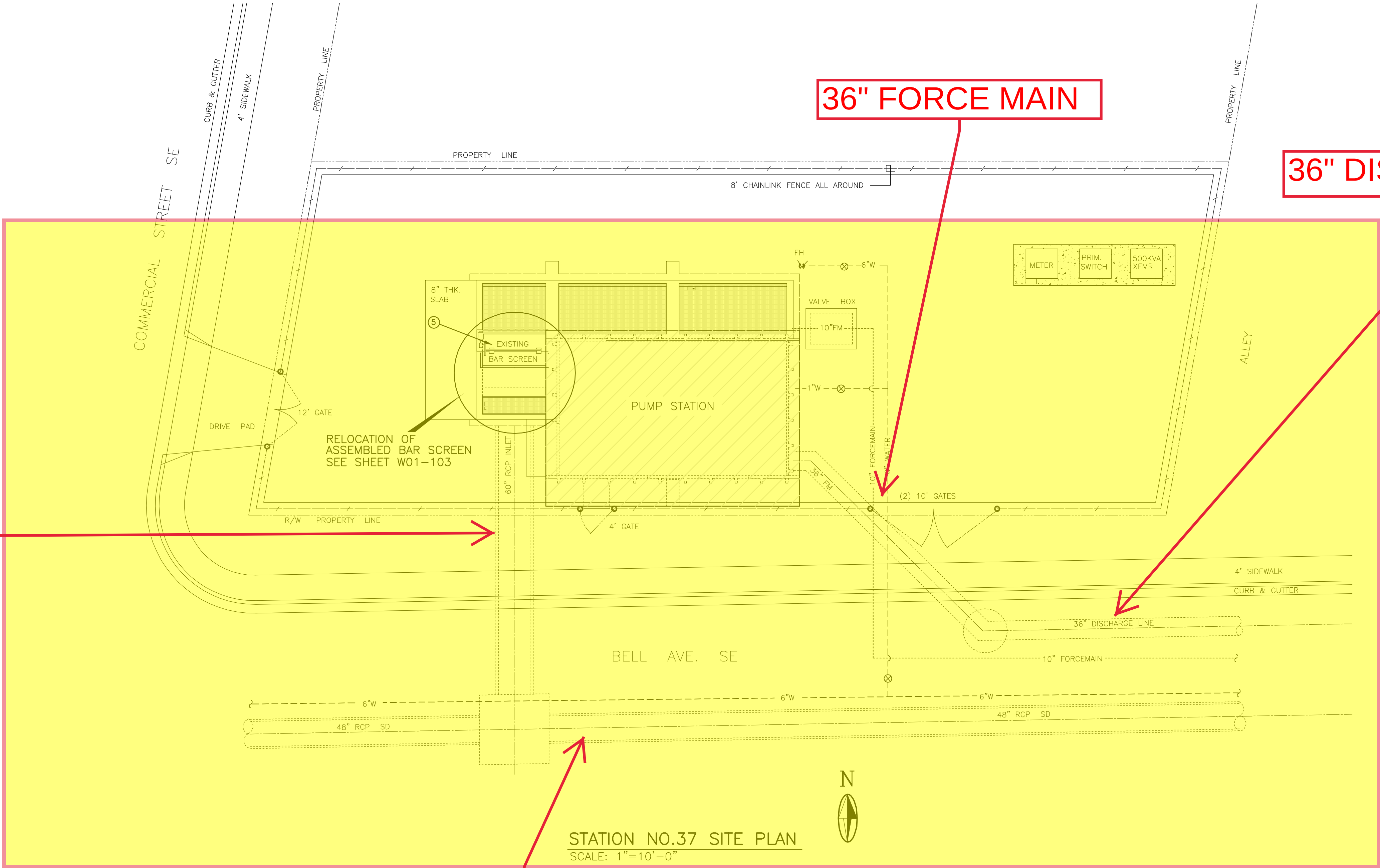
S01-001	BELL STATION NO.37 MODIFICATIONS - STRUCTURAL DESIGN CRITERIA AND NOTES
S01-101	BELL STATION NO. 37 MODIFICATIONS STRUCTURAL PLANS
S01-301	BELL STATION NO. 37 MODIFICATIONS STRUCTURAL SECTIONS

60" RCP INLET

36" FORCE MAIN

36" DISCHARGE LINE

48" RCP STORM DRAIN



STATION NO.37 SITE PLAN
SCALE: 1"=10'-0"

RECORD DRAWING

DATE: 05/06/09	DRAWN BY: MAD
-------------------	------------------

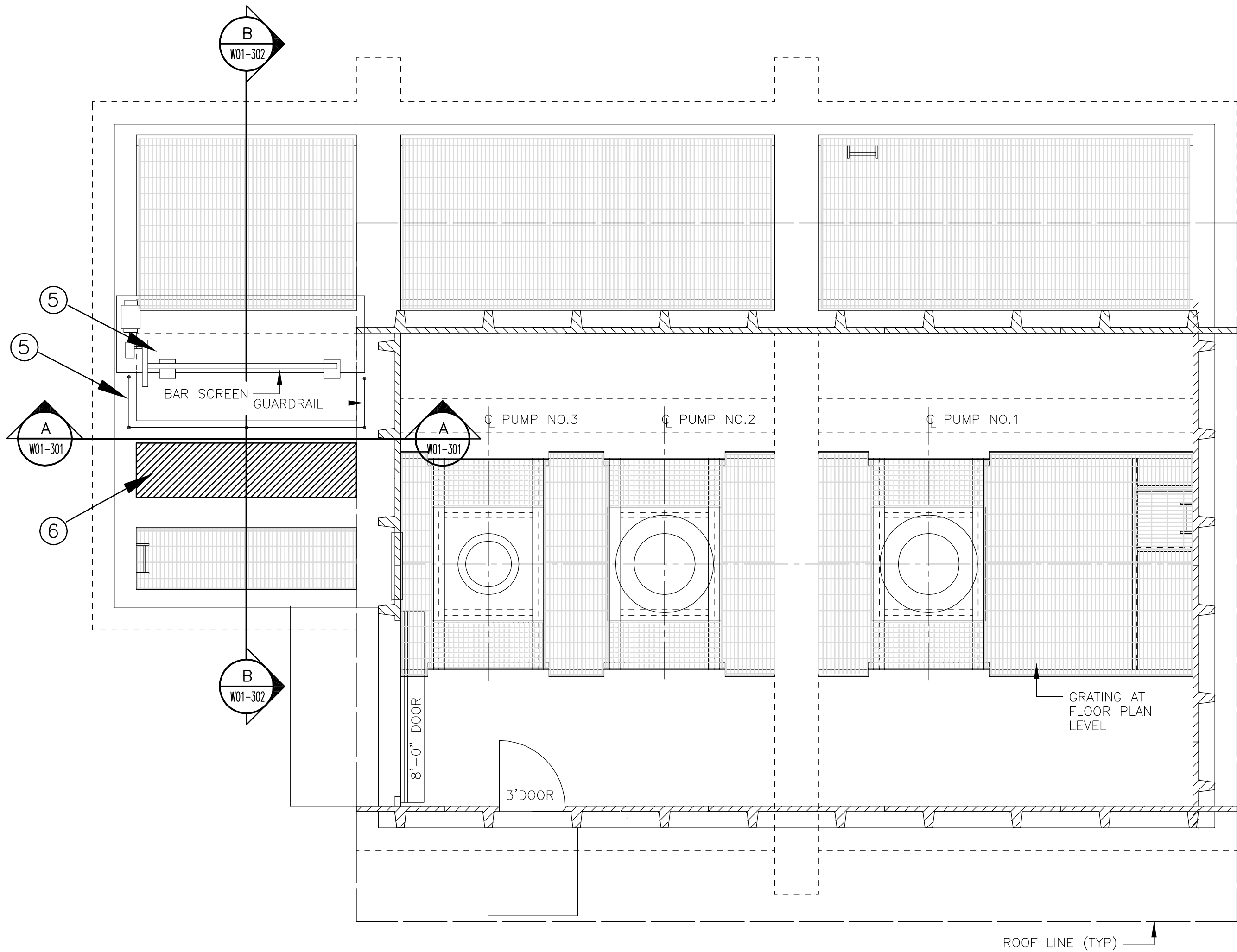
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS ON INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

2701 MILES RD SE
ALBUQUERQUE, NM 87108
TEL: 505.242-5700
FAX: 505.242-0673

MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

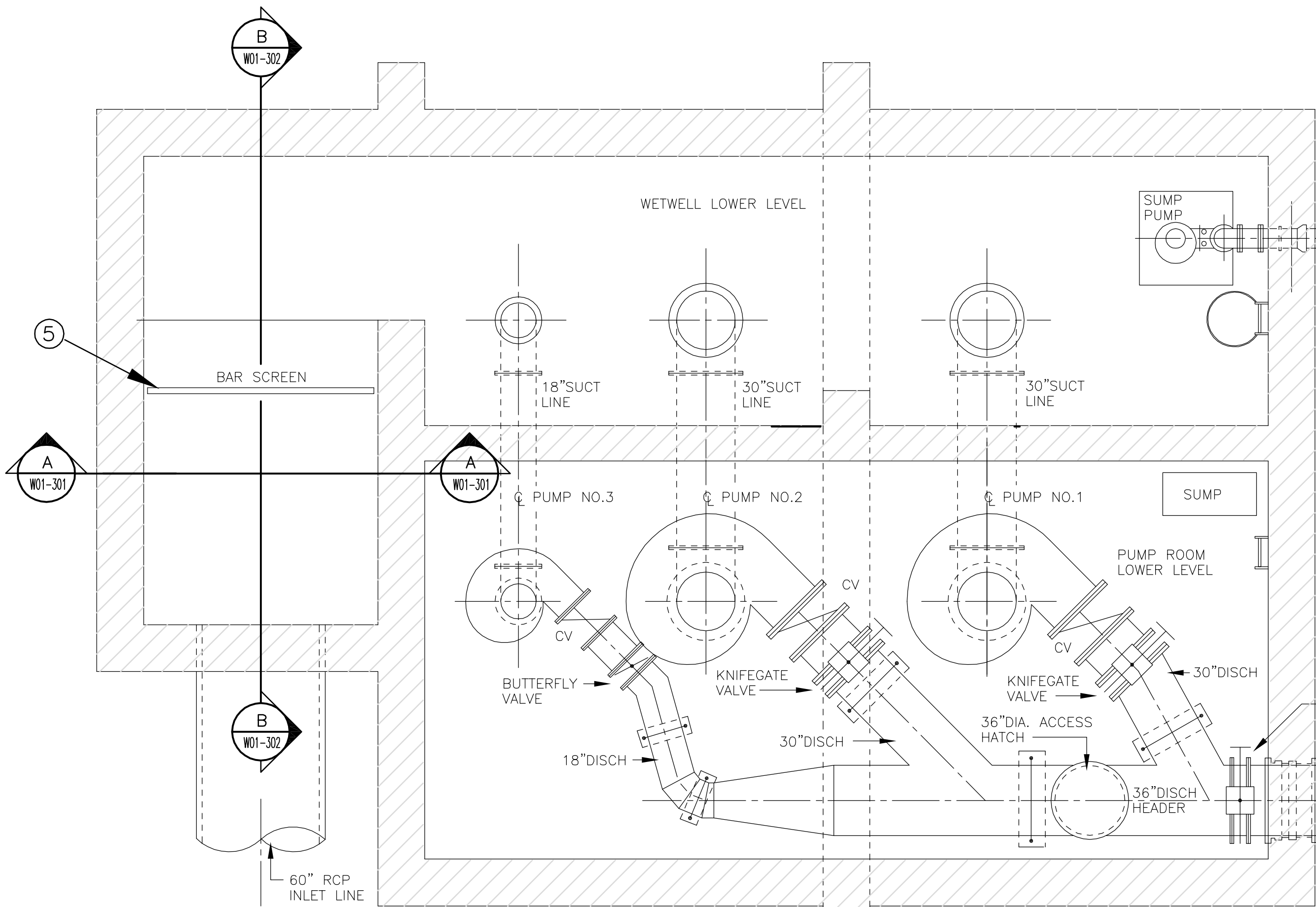
CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 - EXISTING SITE PLAN BAR SCREEN MODIFICATIONS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781491		W01-101	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES					
		NO.		BY		DATE	
NO.		DATE		REMARKS		BY	
REVISIONS							
DESIGN							
DESIGNED BY		RF/MK		DATE		11/07	
DRAWN BY		CJS		DATE		12-03-07	
CHECKED BY		MK/RF		DATE		12/07	



NOTE: SEE SHEET W01-103
FOR KEYED NOTES

MOTOR ROOM GROUND/FLOOR PLAN
SCALE: 1/4"= 1'-0"



NOTE: SEE SHEET W01-103
FOR KEYED NOTES

LOWER PUMP ROOM PLAN
SCALE: 1/4"= 1'-0"

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: MAD
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

2701 MILES RD SE
ALBUQUERQUE, NM 87108
TEL: 505.242.5700
FAX: 505.242.0673

MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 - EXISTING FLOOR PLANS BAR SCREEN MODIFICATIONS			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781491		W01-102	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	STANDARD	DATE	NO.	BY	DATE	NO.	DATE	BY	DATE	BY
INSPECTOR	DATE	FIELD	DATE								
VERIFICATION BY	DATE										
CORRECTED BY	DATE										
MICRO-FILM INFORMATION											
RECORDED BY	DATE										
NO.											



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

- ① INSTALL IDI MECHANICAL BAR SCREEN CS 587 S/N 56801H01, FURNISHED BY OWNER, LOCATED ON PROJECT SITE. COMPLETE IN PLACE WITH ALL APPURTENANCES, INCLUDING ELECTRICAL POWER AND CONTROLS. BAR SCREEN ASSEMBLY MODIFICATIONS & INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS DRAWINGS AND DIRECTION. NEW DEAD PLATE AND BAR RACK SHALL BE OBTAINED FROM THE BAR SCREEN MANUFACTURER. SEE SPEC SECTION 11331.
- ② FURNISH AND INSTALL NEW CONVEYOR BELT PER SPEC. SECTION 14550 SET IN PLACE AS SHOWN AND AS DIRECTED BY THE CONVEYOR MANUFACTURER. BELT MANUFACTURER AND BAR SCREEN MANUFACTURER TO COORDINATE ASSEMBLY EFFORTS TO COMPLETE THE ENTIRE INSTALLATION READY TO OPERATE CORRECTLY. SEE NOTE 7.
- ③ FURNISH AND INSTALL SUPPORT STRUCTURAL BEAMS/BRACES TO SUPPORT AND ANCHOR EQUIPMENT, (W01-302, SEC B-B) AND STRUCTURAL DRAWINGS.
- ④ SCREENINGS BIN TO BE FURNISHED AND PROVIDED TO THE CONTRACTOR BY THE OWNER. CONTRACTOR TO VERIFY THAT THE BIN WILL FIT UNDER DISCHARGE END OF CONVEYOR AS INTENDED.
- ⑤ EXISTING MECHANICAL BAR SCREEN ASSEMBLY AND GUARDRAILS TO BE DISCONNECTED AND REMOVED TO SALVAGE PER OWNERS' DIRECTION. SEE SHEET W01-102 AND ELECTRICAL DRAWINGS.
- ⑥ SAW-CUT AND REMOVE EXISTING CONCRETE SLAB/BELT AS SHOWN ON SECTION B-B, SHEET W01-302. TO PROVIDE 7'-4" CLEAR OPENING FOR NEW BAR SCREEN. COAT EXPOSED CUT SURFACES PER SPECS. SEE PLANS ON SHEET W01-102.
- ⑦ CONTRACTOR SHALL PROVIDE THE DISCHARGE PAN EXTENSION NECESSARY TO TRANSFER SCREENINGS FROM BAR SCREEN TO BELT CONVEYOR INLET HOPPER AS APPROVED BY THE BAR SCREEN & CONVEYOR MANUFACTURER.
- ⑧ CONSTRUCT NEW 6" THK. x 5'-0" WIDE CONCRETE PAD x LENGTH TO MATCH EXISTING CONCRETE PAD AT DROP END OF BELT SCREENINGS CONVEYOR. SEE STRUCTURAL DRAWINGS.
- ⑨ REMOVE EXISTING CHAINLINK FENCE. AROUND EXISTING BAR SCREEN. REINSTALL AS DIRECTED BY OWNER.

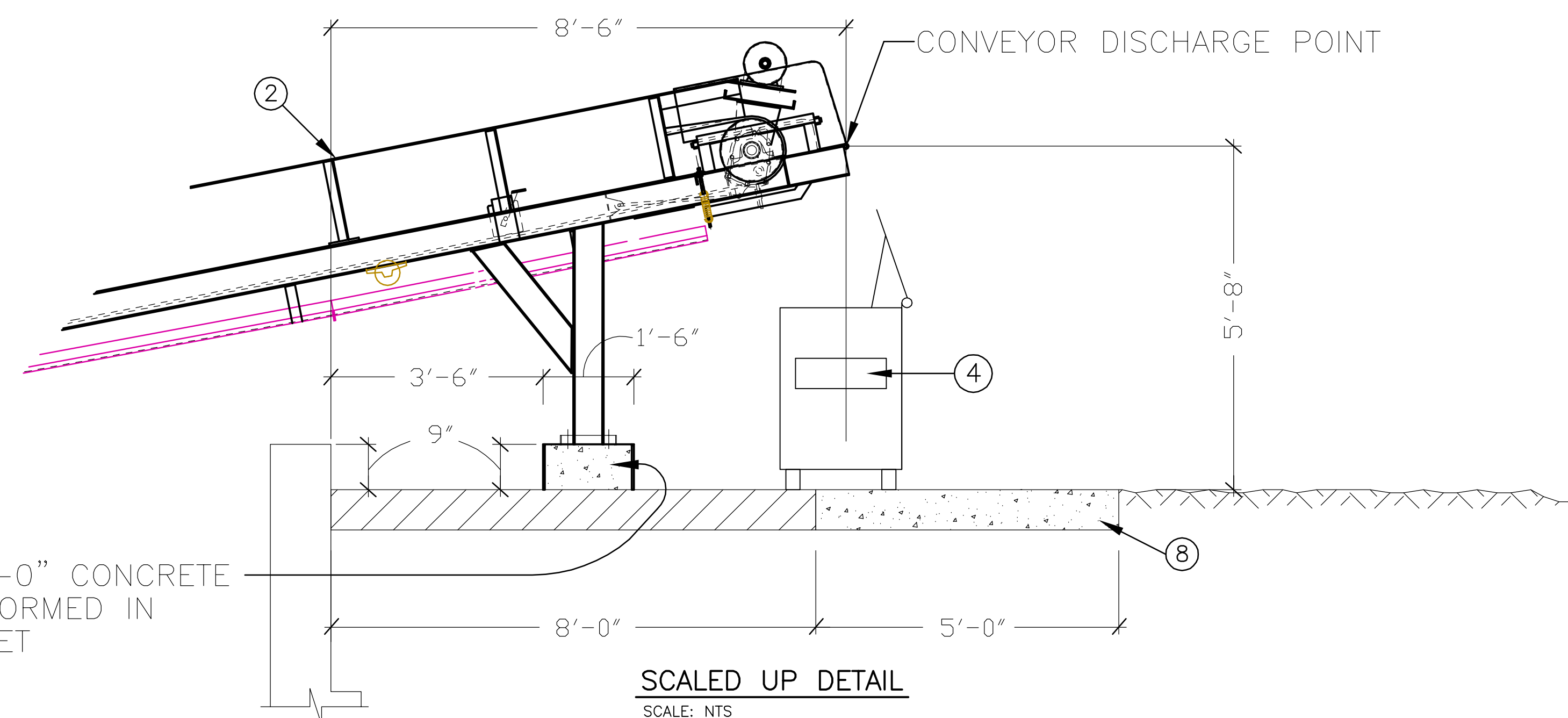
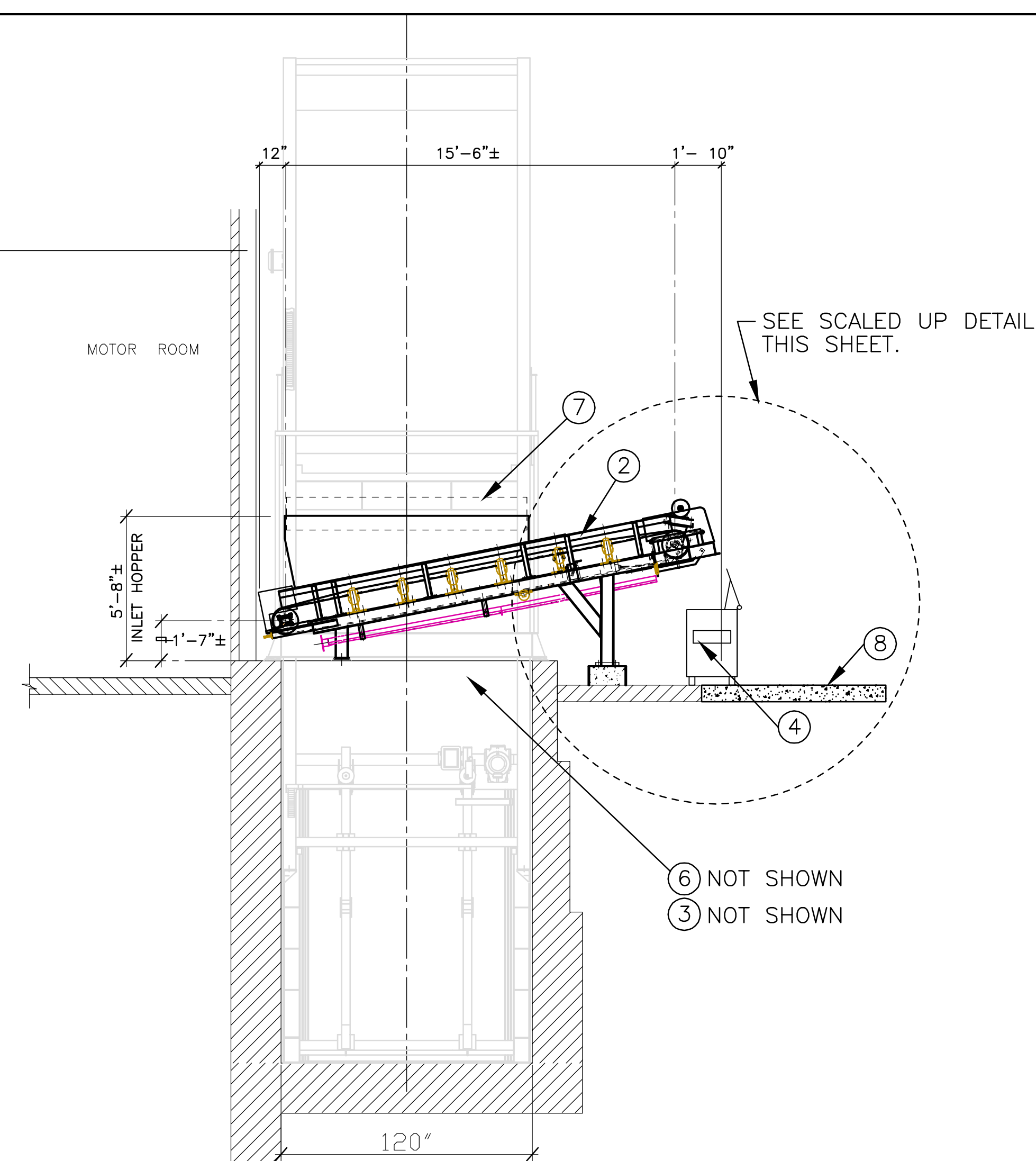
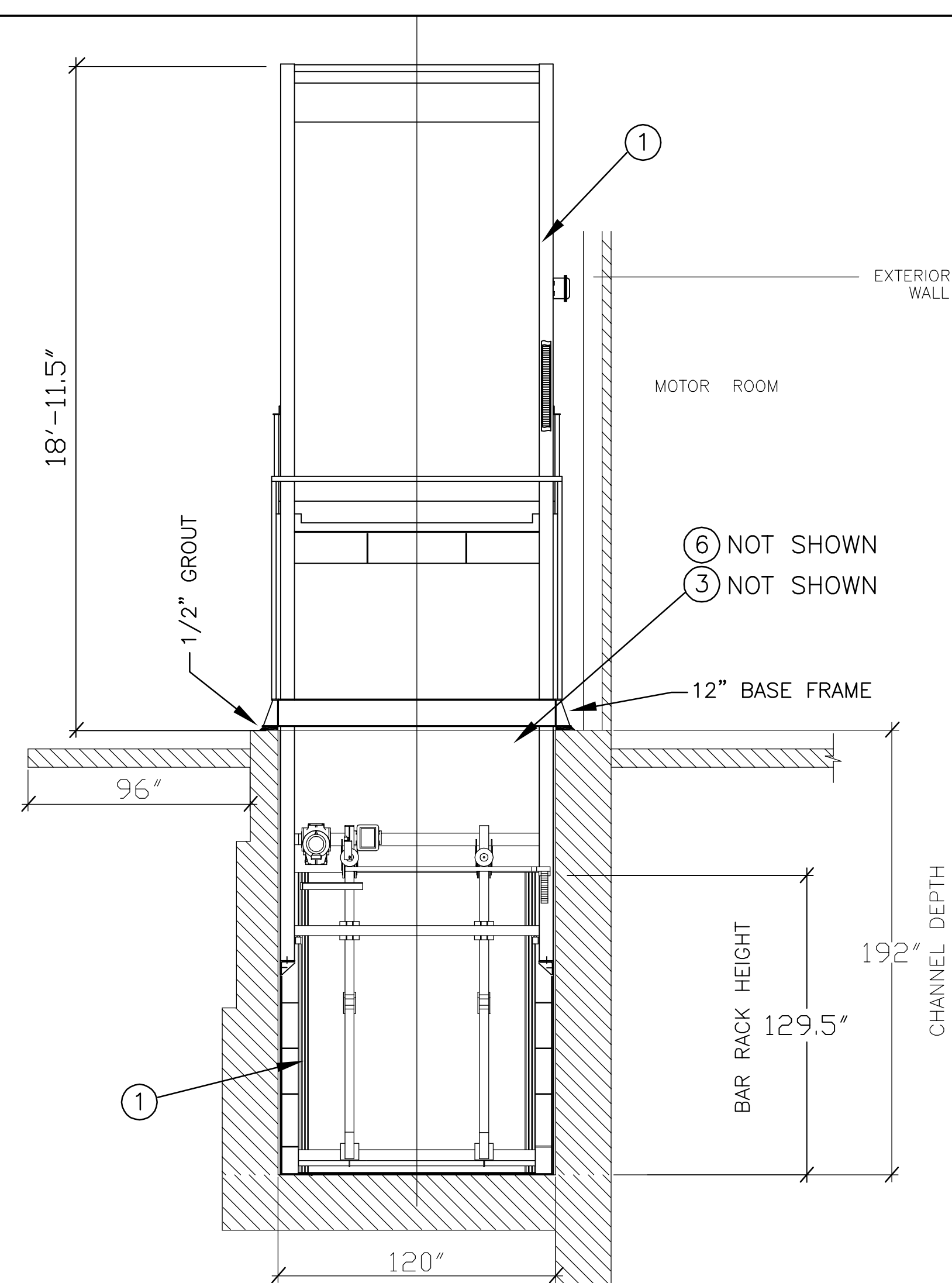
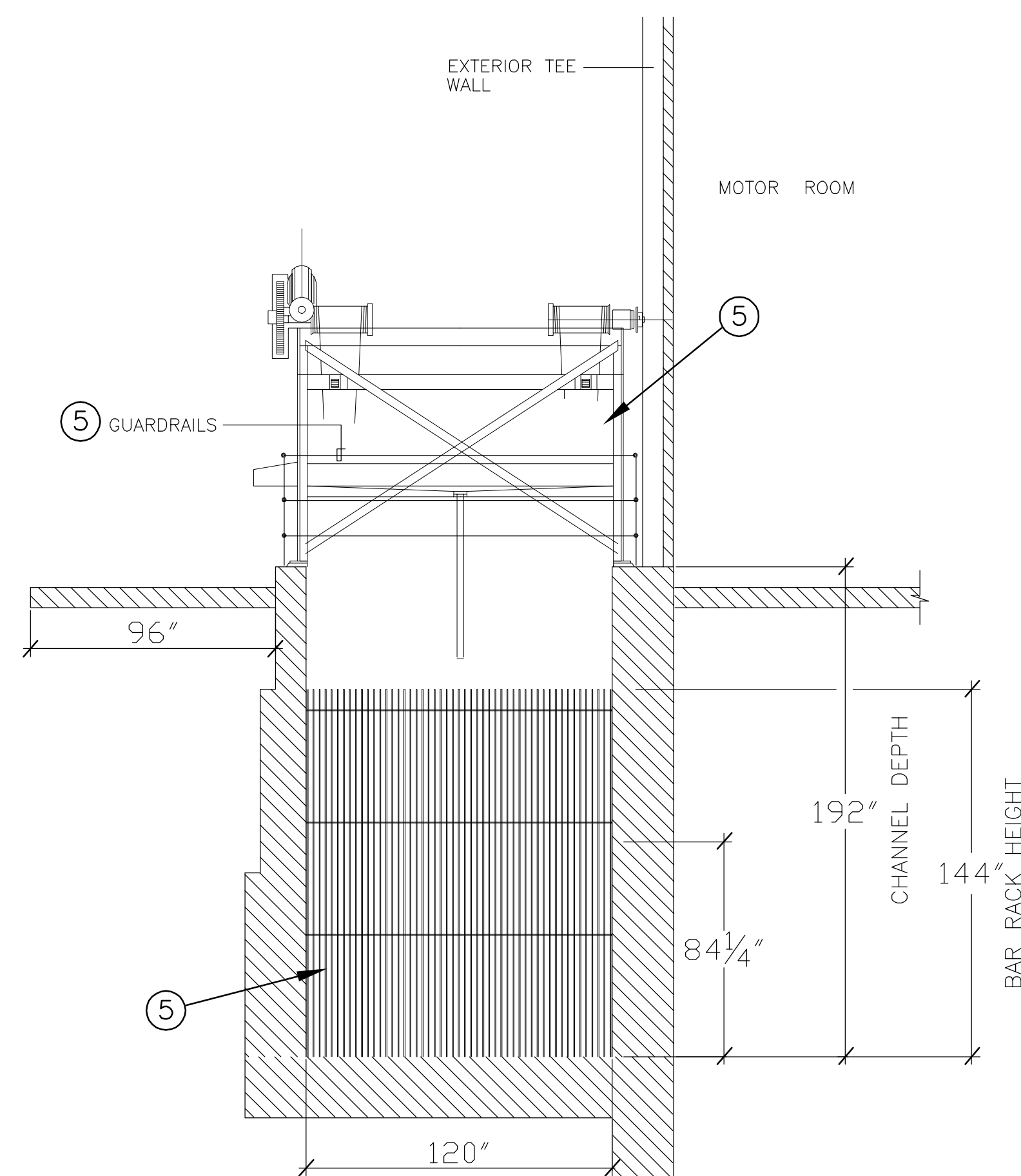
2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0673



MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNER

© COPYRIGHT

ABQ061-70.D40



NOTE: VERIFY ALL BAR SCREEN DIMENSIONS WITH THE MANUFACTURER
SEE DWG. W01-103 FOR KEYED NOTES

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: MAD
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS ON INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0673



	CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT														
	TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO. 37 - EXISTING & NEW SECTIONS A-A BAR SCREEN MODIFICATIONS														
Design Review Committee	City Engineer Approval	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; padding: 5px;">Mo./Day/Yr.</th> <th style="width: 50%; padding: 5px;">Mo./Day/Yr.</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> </tbody> </table>	Mo./Day/Yr.	Mo./Day/Yr.										
Mo./Day/Yr.	Mo./Day/Yr.														
City Project No.	Zone Map No.	Sheet	Of												
781491		W01-301													



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

NOTE: SEE SHEET W01-103
FOR KEYED NOTES

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

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: MAD
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS ON INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORRIGAN ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0673



MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNER



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO. 37 - EXISTING & NEW SECTIONS B-B
BAR SCREEN MODIFICATIONS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
781491		W01-302	

KM
VA

© COPYRIGHT

ABQ061-70.D40

STRUCTURAL DESIGN CRITERIA

BUILDING CODES

New Mexico Commercial Building Code (NMCBC) – 2006 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 psf	100 psf

Notes:

- (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 conditions under which work is to be done and that he has found all conditions to be satisfactory.
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.
3. 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.
4. 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 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 review by the Engineer.
6. 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 installation 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.
8. 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 Drawings and Specifications represent the finished structure and do not indicate methods, procedures or sequence of construction. Take necessary 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)
Maintenance Pad (Provide 6 standard 4"Øx8" cylinders to be tested, 3 at 7 days and 3 at 28 days)	4000 psi @ 28 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/yd ³ (portland cement plus 10%–25% flyash) 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 concrete work.

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.
2. Identification of concrete class/compressive strength.
3. Quantities of each material used in trial mix.
4. Water/cementitious material ratio.
5. Gradation of aggregates
6. Certifications that all materials meet project and appropriate ASTM Specifications.
7. 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

CONCRETE ACCESSORIES

Non-Shrink Grout: ASTM C1107, "Masterflow 928 Grout" by Master Builders or approved alternate

STRUCTURAL AND MISCELLANEOUS STEEL

Hot-rolled Channels, Angles and Plates: ASTM A36,
Fy = 36,000 psi
Galvanizing: ASTM A153 and ASTM A386
Stainless Steel: IFI-104, Grade 304

ALUMINUM

Sheet and plate: ASTM B209, alloy 6061-T6
Rolled sections: ASTM B308, alloy 6061-T6
Rod and bar: ASTM B211, alloy 6061-T6 or 2071-T4
Extrusions: ASTM B221, alloy 6063-T5 or T6
Pipe: ASTM B249, alloy 6061-T6 or 6063-T6
Checkered Plate: FS QQ-F-461
Grating: ASTM B221, alloy 6063-T6

FASTENERS

Aluminum-to-Aluminum Connections
Bolts: Stainless steel, ASTM F593
Nuts: Stainless steel, ASTM F594
Washers: Stainless steel

Steel-to-Concrete Connections
Drilled-in steel carbon or stainless steel expansion anchors, diameter and minimum embedment length as noted or specified, with nuts and washers to match.

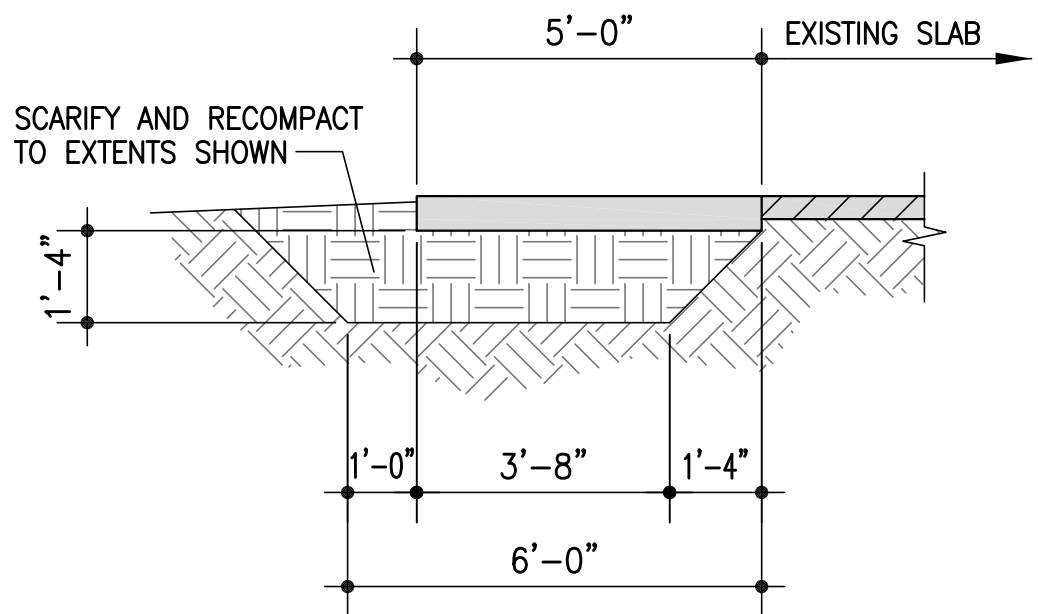
Aluminum-to-Concrete Connections
Drilled-in or stainless steel expansion anchors, diameter and minimum embedment length as noted or specified, with nuts and washers to match.

Other

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

GENERAL NOTES – EARTHWORK

1. 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 2006 edition of the New Mexico Commercial Building Code.
2. SITE CLEARING. All vegetation and other organic matter, pavement, existing construction and man-made fill (except as otherwise directed), and any other unsuitable material shall be removed from site and properly disposed of.
3. 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 properly 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.
4. PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleaned and grubbed, the subgrade shall be scarified, discd or otherwise loosened 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.
5. FILL AND BACKFILL MATERIAL. All fill and backfill material shall be clean, non-plastic, non-cohesive, 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.
6. 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 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 methods to aid in compaction.
7. QUALITY CONTROL. Maximum densities 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 limits, plastic limits and plasticity indices shall be determined in accordance with ASTM D4318.



NEW SLAB EARTHWORK SCHEMATIC
(MINIMUM REQUIREMENTS) NO SCALE

GENERAL NOTES – CONCRETE CONSTRUCTION

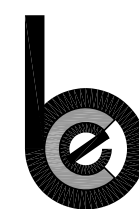
1. GENERAL. Unless otherwise shown or specified, supply and construct concrete in accordance with ACI 301 "Specifications for Structural Concrete for Buildings" and ACI 318 "Building Code Requirements for Structural Concrete". Except as otherwise shown, detail reinforcing in accordance with the latest edition of the ACI Detailing Manual and install in accordance with the latest edition of the CRSI Placing Manual.
2. REINFORCING. Hooks 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 fastened 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 a sufficient number of items so that the spacings shown are not exceeded. The first and last items in a group of uniformly spaced items shall be located at not more than one-half of the typical spacing nor 12 inches from the end of a structural element.
4. 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.
5. 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: 3 inches
b) Concrete cast in forms but exposed to earth or weather in service: 2 inches

RECORD DRAWING

DATE: AUG 10, 2009	ENGINEER C. BACCHUS
-----------------------	------------------------

THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. BACCHUS CONSULTING ENGINEERING IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. THIS DRAWING IS THE PROPERTY OF BACCHUS CONSULTING ENGINEERING AND IS PROTECTED BY U.S. AND INTERNATIONAL COPYRIGHT LAWS. IT MAY NOT BE USED FOR ANY PURPOSE OTHER THAN TO MAKE REPAIRS OR MODIFICATIONS TO THIS STRUCTURE WITHOUT THE EXPRESS WRITTEN CONSENT OF BACCHUS CONSULTING ENGINEERING. IF THE DRAWING IS USED FOR ANY PURPOSE, THE USER ACCEPTS ALL REAL OR POTENTIAL LIABILITY FOR ANY PROBLEMS WHICH MAY ARISE FROM ITS USE AND WILL HOLD BACCHUS CONSULTING ENGINEERING, ANY SUCCESSOR ORGANIZATIONS AND ANY AND ALL PERSONNEL OF BACCHUS CONSULTING ENGINEERING OR ANY SUCCESSOR ORGANIZATIONS HARMLESS FROM ANY PROBLEMS WHICH MAY ARISE FROM ITS USE.



Bacchus
Consulting Engineers
Albuquerque

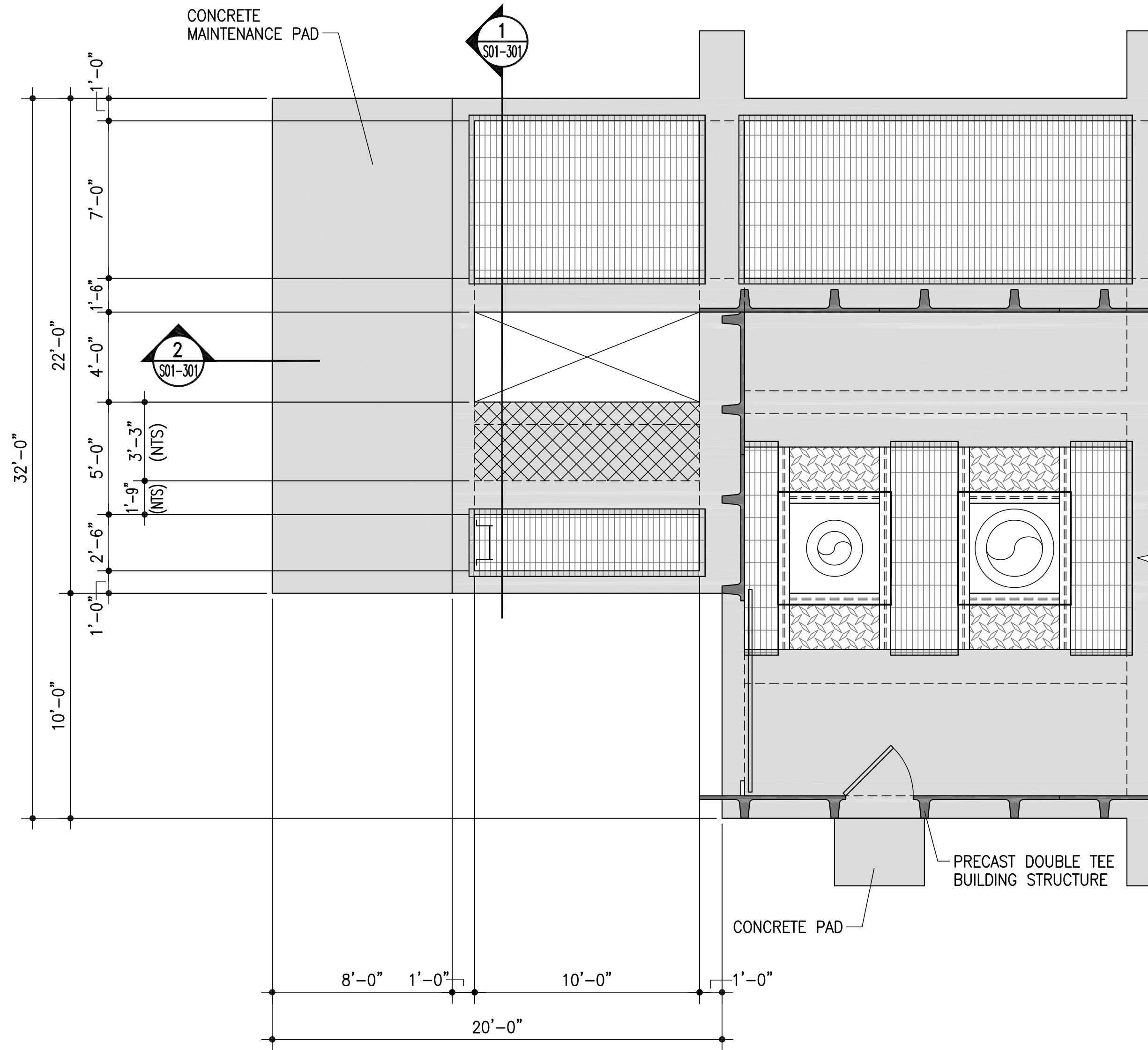
2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0873



MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

		CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT	
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION NO.37 MODIFICATIONS STRUCTURAL DESIGN CRITERIA AND NOTES			
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.
			Mo./Day/Yr.
City Project No. 781491		Zone Map No.	Sheet Of S01-001

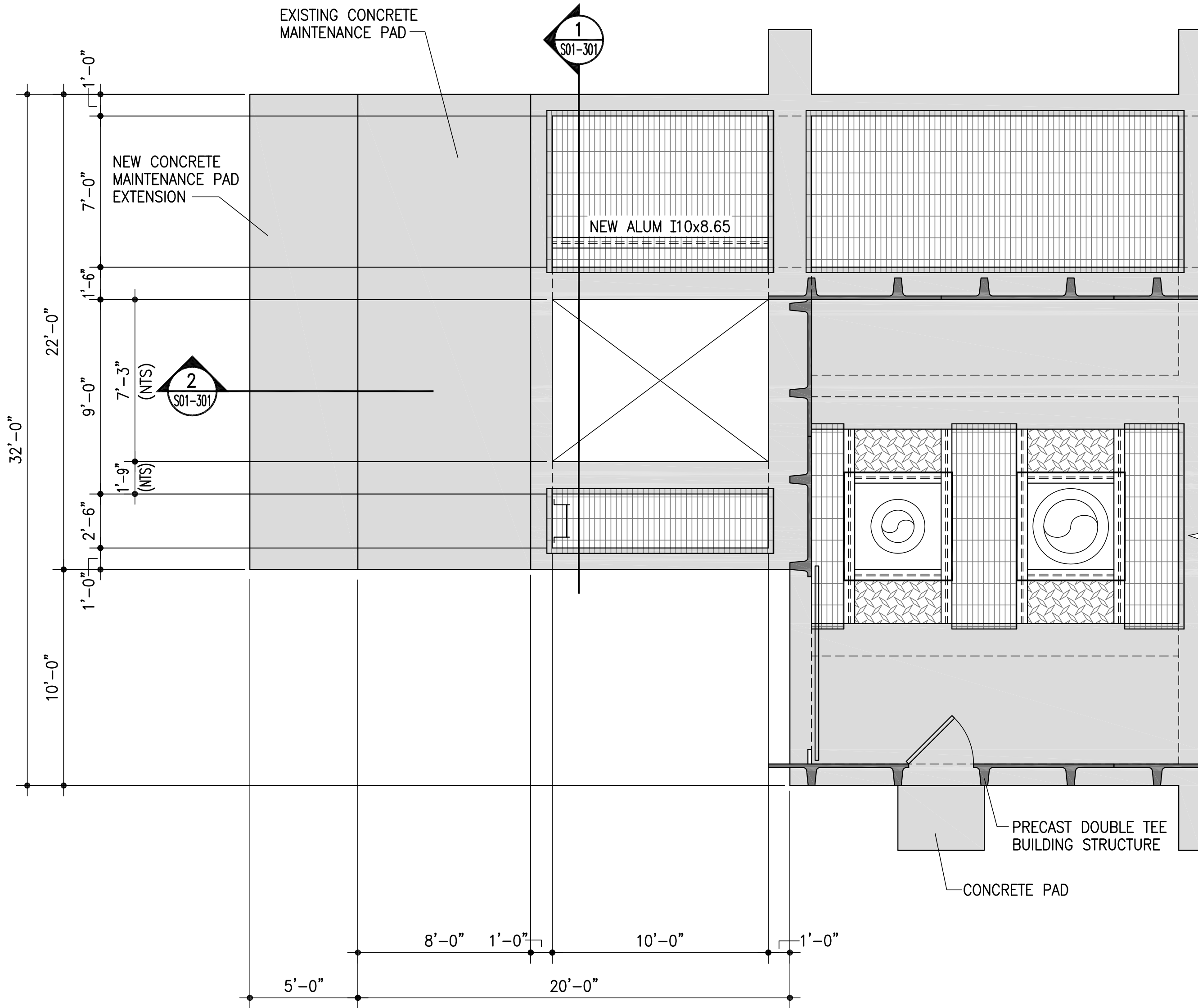
EXISTING / DEMOLITION PUMP STATION PLAN



SCALE: 1/4" = 1' 0"



REVISED PUMP STATION PLAN



SCALE: 1/4" = 1' 0"



GENERAL NOTES

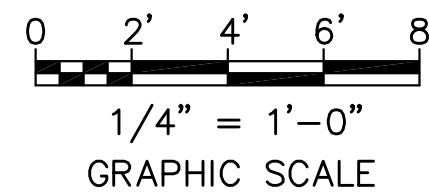
- Dimensions shown are based on record drawings of the existing Pump Station. Contractor shall verify and adjust dimensions as required for all submittals and/or work to be performed.
- Prior to commencement of construction activities, Contractor shall inspect the existing structures for any signs of cracking or damage and submit the findings to the Engineer for record. Contractor shall take all precautions necessary during demolition activities to ensure no damage occurs to the existing structure to remain in place. Any damage which occurs to the existing structure due to improper demolition and/or construction techniques shall be repaired to the approval of the Engineer. All costs associated with the repair shall be the responsibility of the Contractor.
- Contractor shall coat all exposed cut areas of concrete using an epoxy sealer such as "L&M Construction Chemicals - Durathane HS/VOC" or an approved alternate.

LEGEND

- Existing concrete to be removed. See General Note #3.
- Existing concrete wall or slab structure.
- Existing metal grating.

RECORD DRAWING

DATE: AUG 10, 2009	ENGINEER C. BACCHUS
THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. BACCHUS CONSULTING ENGINEERING IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT. THIS DRAWING IS THE PROPERTY OF BACCHUS CONSULTING ENGINEERING AND IS PROTECTED BY U.S. AND INTERNATIONAL COPYRIGHT LAWS. IT MAY NOT BE USED FOR ANY PURPOSE OTHER THAN TO MAKE REPAIRS OR MODIFICATIONS TO THIS STRUCTURE WITHOUT THE EXPRESS WRITTEN CONSENT OF BACCHUS CONSULTING ENGINEERING. IF THE DRAWING IS USED FOR ANY PURPOSE, THE USER ACCEPTS ALL REAL OR POTENTIAL LIABILITY FOR ANY PROBLEMS WHICH MAY ARISE FROM ITS USE AND WILL HOLD BACCHUS CONSULTING ENGINEERING, ANY SUCCESSOR ORGANIZATIONS AND ANY AND ALL PERSONNEL OF BACCHUS CONSULTING ENGINEERING OR ANY SUCCESSOR ORGANIZATIONS HARMLESS FROM ANY PROBLEMS WHICH MAY ARISE FROM ITS USE.	



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO.37 MODIFICATIONS
STRUCTURAL PLANS

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
781491		S01-101	

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE		CONTRACTOR	DATE
				INSPECTED BY	DATE
				ACCEPTANCE BY	DATE
				TESTIFICATION BY	DATE
				DRAWINGS	DATE
				CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	



2 METAL GRATING

CONCRETE BEAM (2)

CONCRETE WALL (2)

S01-101

SCALE: $1/2" = 1' 0"$



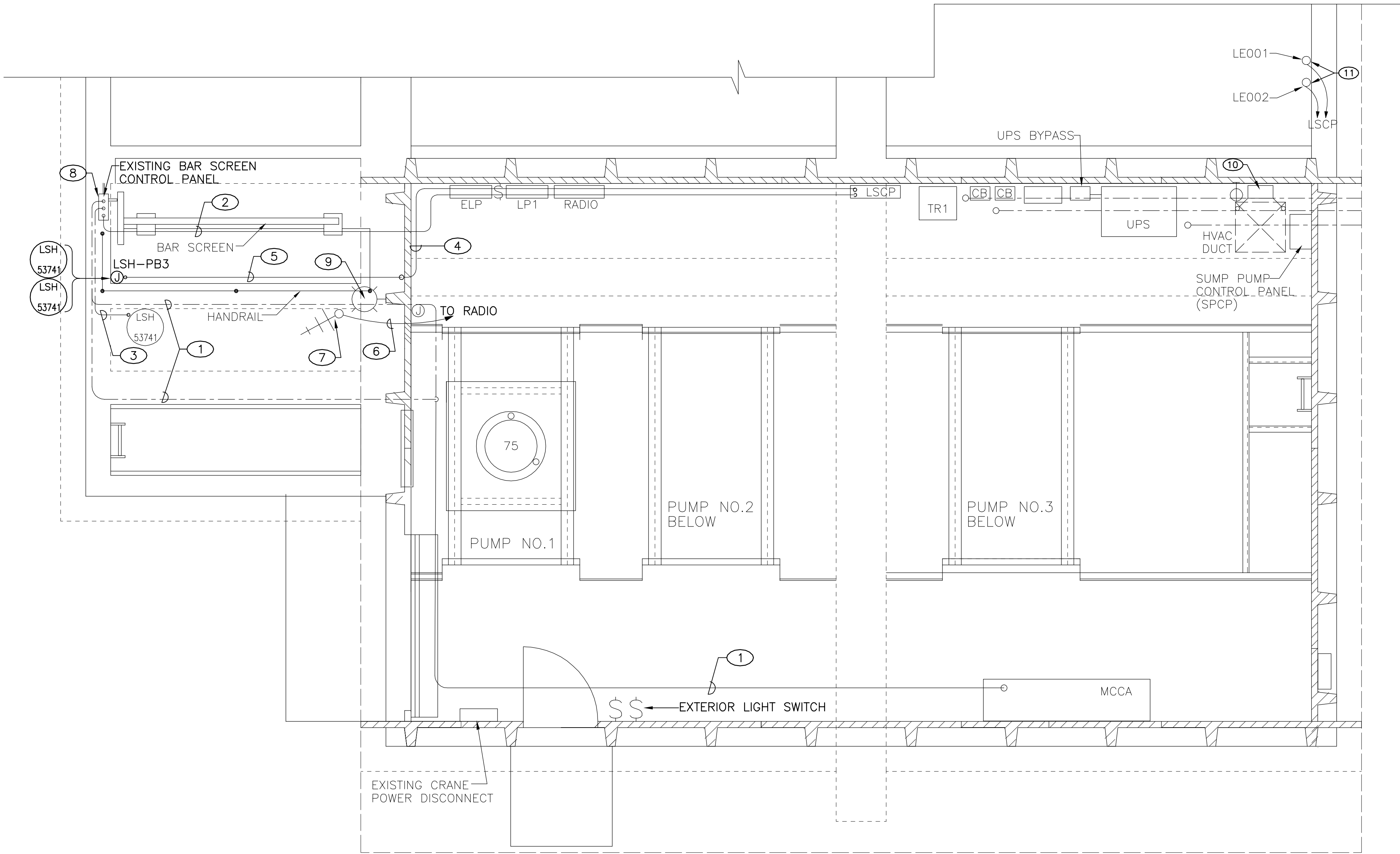
CONCRETE
MAINTENANCE PAD

①

Note: In addition to the keyed notes, see the GENERAL NOTES on Sheet S01-001 for additional requirements.

- 1 Earth in place or new compacted fill. See the EARTHWORK SCHEMATIC on sheet S01-001 for requirements.
- 2 Existing pump station structure.
- 3 6" thick slab-on-grade reinforced with #4 each way at 12" on center maximum.
- 4 1/2" thick expansion joint material.
- 5 Aluminum L6x4x3/8x1'-0" (LLV) with 3/8" stiffening plate as shown. Connect to existing concrete wall using 2 ~ 1"Ø stainless steel Hiilti Kwik Bolt 3 anchors (or approved alternate). Expansion anchors shall be embedded into concrete wall a minimum of six inches. Provided heavy stainless steel washers.
- 6 Aluminum 110x8.65 conveyor support beam with 1/4" end plates. Connect beam to support angles using 2 ~ 3/4"Ø stainless steel bolts spaced at beam's standard gage. Provide stainless steel heavy washers. Provide new grating saddle clips spaced at 12 inches on center.
- 7 See GENERAL NOTE #3 on Sheet S01-101 for exposed cut concrete requirements.
- 8 Cross hatched area denotes portion of existing structure to be removed and disposed of.

THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED IN IT AS AN INSTRUMENT OF PROFESSIONAL SERVICE IS THE PROPERTY OF BACCHUS CONSULTING ENGINEERING OWNERSHIP AND REUSE OF DOCUMENTS: AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION FROM BACCHUS CONSULTING ENGINEERING.



1 ELECTRICAL DEMOLITION
SCALE: 3/8"=1'-0"

GENERAL NOTES

- WHERE CONDUCTORS ARE IDENTIFIED FOR REMOVAL, DISCONNECT AND REMOVE CONDUCTORS TO SOURCE.
- WHERE A SURFACE CONDUIT IS IDENTIFIED FOR REMOVAL, REMOVE EXPOSED CONDUIT TO NEAREST BOX AND PLUG UNUSED OPENINGS IN BOX.
- WHERE AN EMBEDDED CONDUIT IS IDENTIFIED FOR REMOVAL, REMOVE EXPOSED PORTIONS OF CONDUIT. CUT AT PENETRATION, GRIND FLUSH AND GROUT CLOSED.
- CONDUCTORS IDENTIFIED FOR REMOVAL ARE AS INDICATED ON UNVERIFIED RECORD DRAWINGS.
- THE UTILITY WILL INSTALL A TEMPORARY ANTENNA TO MAINTAIN COMMUNICATION DURING CONSTRUCTION. NOTIFY THE UTILITY INSTRUMENTATION SHOP 1 WEEK PRIOR TO DEMOLITION THAT WILL AFFECT COMMUNICATION.

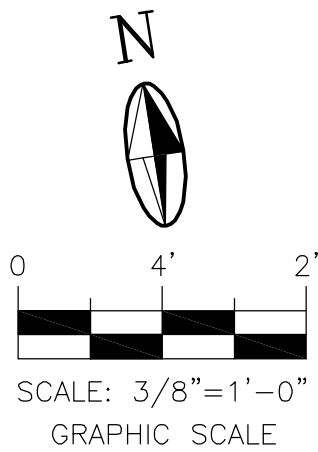
KEYED NOTES

- REMOVE CONDUCTORS, 4 #12 FROM EXISTING BAR SCREEN CONTROL PANEL, (BSCP), TO MCC. REMOVE CONDUIT FROM CONNECTION AT BSCP TO WALL PENETRATION.
- REMOVE CABLE, 3-PAIR TWSH FROM BSCP TO LSCP. REMOVE TWO 3/4" CONDUITS FROM BSCP TO PENETRATION.
- DISCONNECT LEVEL SWITCH CONDUCTORS AT BSCP. REMOVE SWITCH. REMOVE CONDUIT FROM BSCP TO PENETRATION.
- REMOVE LEVEL SWITCH CONDUCTORS, 2 TWSH, FROM LSH-PB3 TO LIFT STATION CONTROL PANEL, (LSCP.) STORE LSH-PB3 AND LEVEL SWITCHES FOR RE-INSTALLATION AFTER BAR SCREEN IS REPLACED.
- REMOVE EXTERIOR PORTION OF 3/4" CONDUIT FROM LSH-PB3 TO LSCP. INTERIOR RUN TO LSCP REMAINS FOR REUSE.
- DISCONNECT ANTENNAL CABLE. REMOVE CABLE CONNECTIONS TO BAR SCREEN STRUCTURE.
- ANTENNA SHOWN HERE BUT MAST IS ANCHORED TO BAR SCREEN STRUCTURE. DISCONNECT ANTENNA MAST SUPPORTS. REMOVE ANTENNA AND MAST. REINSTALL AS SHOWN ON DRAWING E01-101.
- REMOVE BAR SCREEN CONTROL PANEL.
- REMOVE FLOOD LIGHT. REMOVE CONDUCTORS TO J-BOX INSIDE BUILDING.
- RELOCATE BATTERY LIGHT. REINSTALL AS SHOWN ON DRAWING E01-101.
- EXISTING LEVEL ELEMENTS SHALL REMAIN IN OPERATION UNTIL REPLACEMENT ELEMENTS ARE INSTALLED, CONNECTED AND TESTED.

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS ON INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242.5700
FAX: 505.242.0673

MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS



				CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION #37 ELECTRICAL DEMOLITION							
Design Review Committee		City Engineer Approval		Last Design Update		Mo./Day/Yr. Mo./Day/Yr.	
City Project No.		Zone Map No.		Sheet		Of	
781491				E01-100			

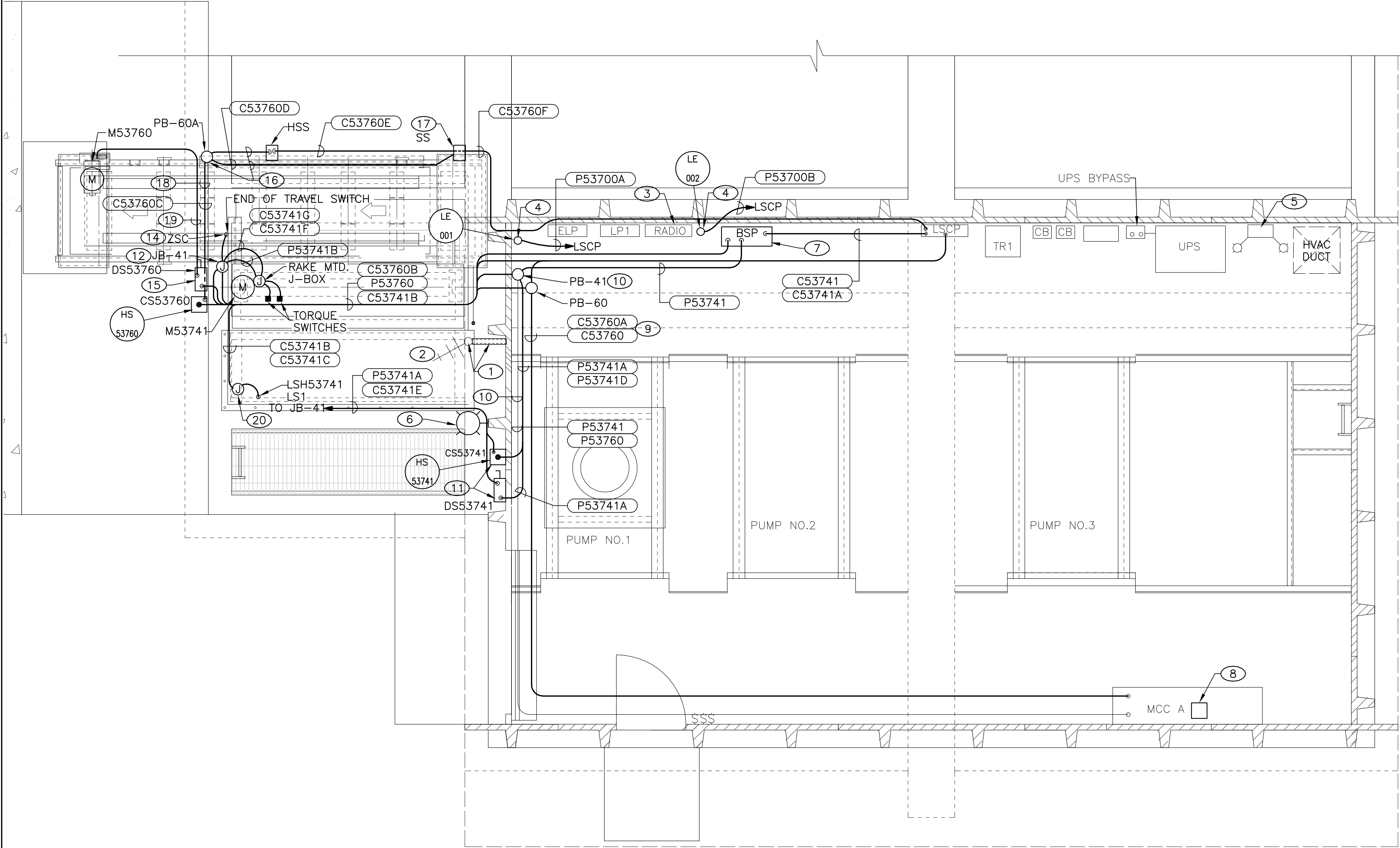
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE			FIELD NOTES			
STAKED BY	DATE			BY			
INSPECTED BY	DATE			NO.			
FIELD INSPECTION BY	DATE						
DRAWINGS	DATE						
CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

GENERAL NOTES

1. ROUTE AND SECURE CONDUIT TO SCREEN FRAME PER MANUFACTURER RECOMMENDATIONS.
2. ROUTE CONDUITS ALONGSIDE GUARDRAILS, INFLUENT CHANNEL WALLS OR BENEATH EQUIPMENT TO MINIMIZE TRIP HAZARDS.
3. DO NOT SUPPORT CONDUIT RUNS ON EQUIPMENT FRAME EXCEPT AS NOTED.
4. COORDINATE WITH UTILITY INSTRUMENTATION SHOP. THEY WILL AIM THE ANTENNA AFTER INSTALLATION.
5. UTILITY INSTRUMENTATION SHOP WILL FURNISH LEVEL ELEMENT RF CABLES FOR CONTRACTOR INSTALLATION.
6. ROUTE CONDUITS TO AVOID TRIP HAZARDS. ROUTE CONDUITS ALONGSIDE EQUIPMENT, GUARDRAILS OR OVERHEAD ABOVE 8' AFF.

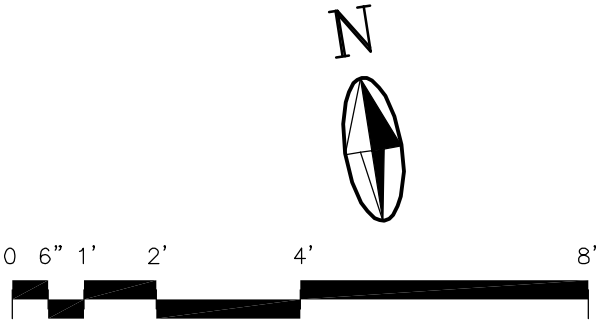
KEYED NOTES

1. INSTALL SS STRUT BRACKETS FOR ANTENNA MAST SUPPORT. ANCHOR TO BUILDING WALL WITH THROUGH BOLTS. USE SS ANCHORS INTO ROOF SLAB. MOUNT ANTENNA AT SAME HEIGHT AS BEFORE REMOVAL. SEE DETAIL ON E01-501.
2. AIM ANTENNA AS DIRECTED BY OWNER FOR BEST COMMUNICATIONS. REROUTE EXISTING ANTENNA CABLE.
3. EXISTING RADIO ENCLOSURE. INSTALL ANTENNA SURGE ARRESTOR. CONNECT TO EXISTING RADIO. CONNECT EXISTING ANTENNA CABLE TO ARRESTOR.
4. INSTALL REPLACEMENT LEVEL ELEMENTS AT EXISTING FLOOR PENETRATION. MOUNT ON SS STRUT ANCHORED TO FLOOR SLAB. RUN CONDUIT FROM ELEMENT TO WALL, THEN ON WALL TO LSCP.
5. RELOCATE EXISTING BATTERY LIGHT. REMOUNT AT SAME HEIGHT AS EXISTING, BUT CLEAR OF HVAC DUCT.
6. MOUNT AREA LIGHT ON WALL AT 10' AFG. RUN CONDUIT TO EXISTING J-BOX. RECONNECT TO EXISTING LIGHTING CIRCUIT.
7. MOUNT REPLACEMENT (OWNER FURNISHED) BAR SCREEN CONTROL PANEL, BSP, ON WALL IN INDICATED AREA. LOCATE SO DISCONNECT HANDLE IS AT 48" AFF.
8. INSTALL MCC UNIT WITH STARTER AND DOOR FOR CONVEYOR.
9. EXISTING CONDUIT BETWEEN MCC AND LSCP. PULL CONDUCTORS FOR CONVEYOR START CONTROL.
10. INSTALL PULLBOX, PB-41, ON EXISTING BAR SCREEN POWER CONDUIT. RUN CONDUITS FROM PB-41 TO BSP AND TO DISCONNECT SWITCHES FOR BAR SCREEN AND CONVEYOR.
11. BUILD SS STRUT STAND. MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR BAR SCREEN.
12. INSTALL 6" SS J-BOX, JB-41 ON BAR SCREEN FRAME AT LOCATION RECOMMENDED BY BAR SCREEN MANUFACTURER. RUN CONDUITS FROM BAR SCREEN DISCONNECT SWITCH AND FROM LSCP TO JB-41.
13. RUN CONDUITS ON WALL; CONTINUE BESIDE BAR SCREEN GUARD AND FRAME TO JB-41.
14. INSTALL END OF TRAVEL LIMIT SWITCH. CONNECT TO BSP; ROUTE VIA JB-41.
15. MOUNT DISCONNECT SWITCH AND LOCAL CONTROL STATION FOR CONVEYOR IN LOCATION SHOWN.
16. INSTALL PULLBOX, PB-60, ON SS STRUT. RUN CONDUITS FROM PB-60 TO ROPE SAFETY SWITCH AND TO ZERO SPEED SWITCH.
17. MOUNT CONVEYOR ZERO SPEED SWITCH
18. RUN CONDUIT FROM PB-60 TO CONTROL STATION. ROUTE AS NOTED FOR MOTOR POWER CONDUIT.
19. RUN CONDUIT FROM CONVEYOR DISCONNECT SWITCH TO GRADE, THEN ALONGSIDE INFLUENT CHANNEL WALL AND BENEATH CONVEYOR. CONTINUE CONDUIT ON CONVEYOR SUPPORTS TO MOTOR. CONNECT TO MOTOR WITH LFMC.
20. INSTALL 6" X 6" NEMA 4X SS LEVEL SWITCH J-BOX, LS-JB. SUSPEND LEVEL SWITCHES FROM SS CABLE GRIPS INSTALLED IN LS-JB. LAND ALL CABLE CONDUCTORS ON TERMINAL BOARDS.



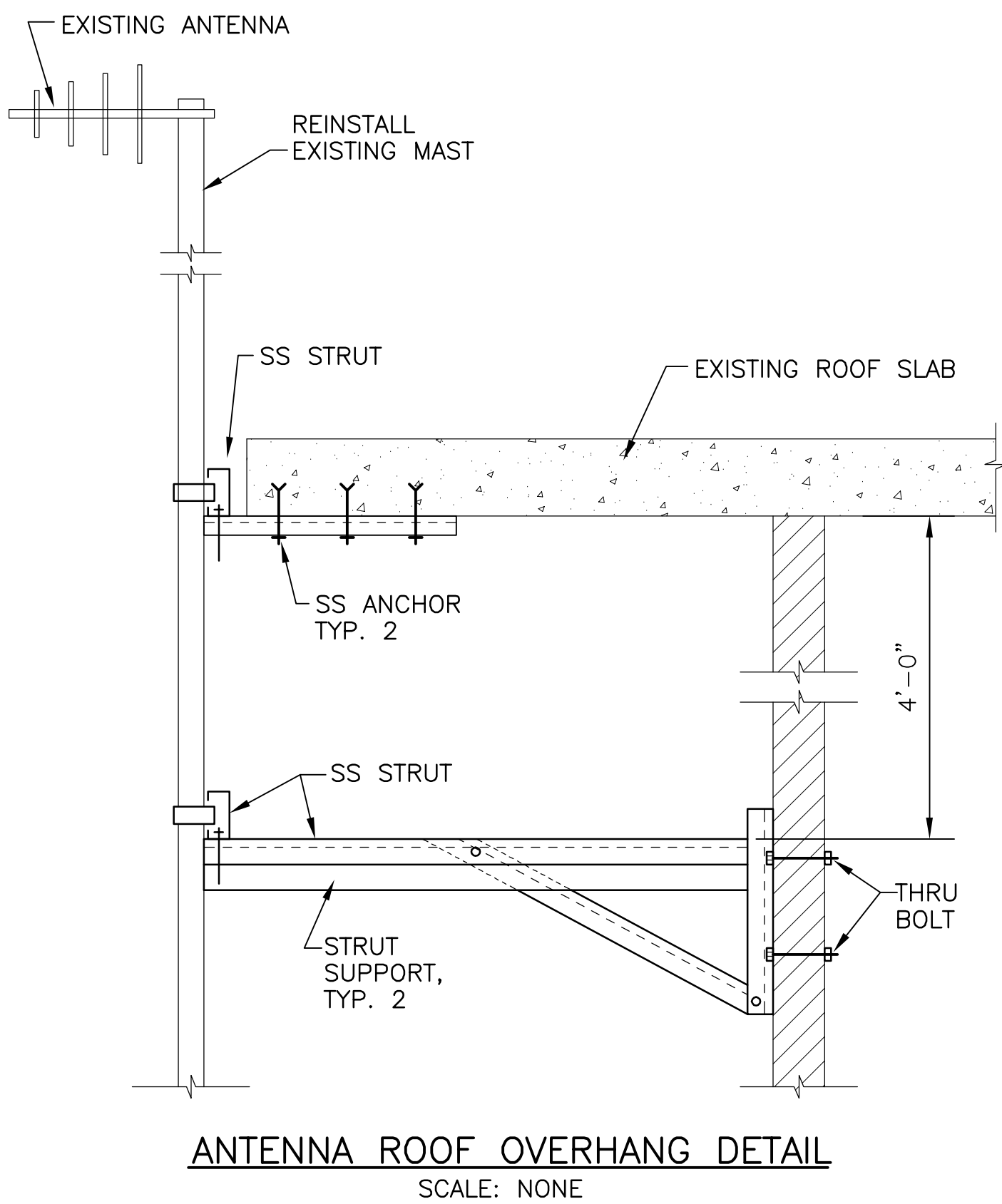
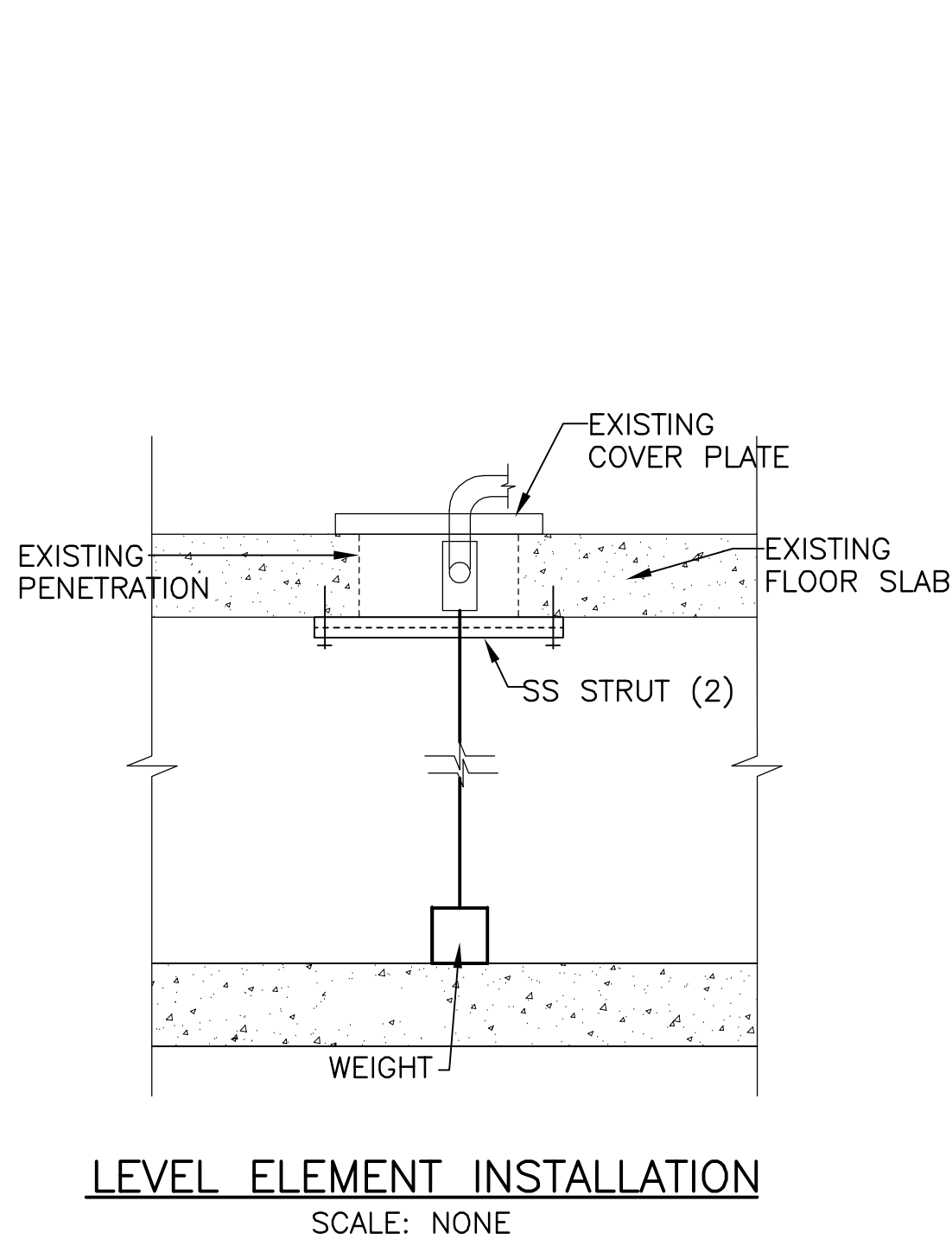
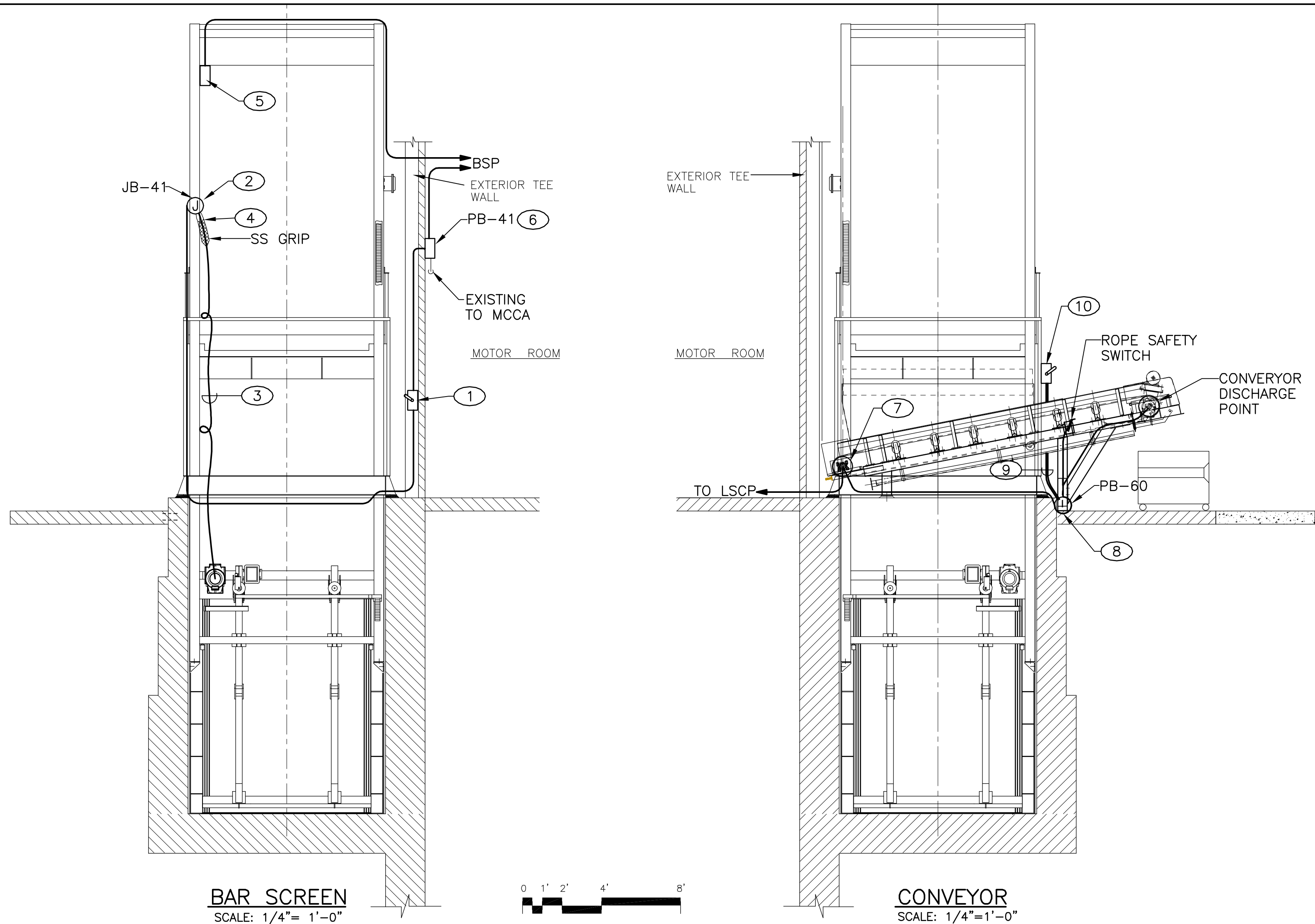
STATION NO. 37 ELECTRICAL
SCALE: 3/8"=1'-0"

RECORD DRAWING
DATE: 05/06/09 DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.



2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242.5700
FAX: 505.242.0673
MOLZEN-CORBIN & Associates
ENGINEERS ARCHITECTS/PLANNERS

CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO. 37 ELECTRICAL PLAN
BAR SCREEN/CONVEYOR MODIFICATIONS
Design Review Committee City Engineer Approval
City Project No. 781491 Zone Map No. Sheet Of E01-101



KEYED NOTES

- 1 BUILD SS STRUT STAND. MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR BAR SCREEN.
- 2 INSTALL 6" SS J-BOX, JB-41 ON BAR SCREEN FRAME AT LOCATION RECOMMENDED BY BAR SCREEN MANUFACTURER. RUN CONDUIT FROM BAR SCREEN DISCONNECT SWITCH TO JB-41.
- 3 REPLACE BAR SCREEN POWER AND CONTROL CABLES. LENGTH AS RECOMMENDED BY BAR SCREEN MANUFACTURER, BUT MINIMUM 50' OF EACH CABLE. CONNECT TO EXISTING BAR SCREEN J-BOX MOUNTED ON RAKE FRAME. TERMINATE ALL CABLE CONDUCTORS ON TERMINAL BOARDS.
- 4 CONNECT POWER AND CONTROL CABLES TO JB-41. CUT TO LENGTH REQUIRED FOR RAKE TRAVEL. USE CABLE CONNECTOR WITH SS BASKET TYPE GRIPS AT JB-41. SUPPORT CABLES AT RAKE FRAME TO AVOID INTERFERENCE WITH RAKE TRAVEL.
- 5 INSTALL PROXIMITY STYLE LIMIT SWITCH FOR RAKE END OF TRAVEL. LOCATE AS RECOMMENDED BY THE RAKE MANUFACTURER.
- 6 INSTALL PULLBOX, PB-41, ON EXISTING BAR SCREEN POWER CONDUIT TO MCCA. RUN CONDUIT FROM PB-41 TO BSP.
- 7 ZERO SPEED SWITCH AND BRACKET SHIPPED LOOSE WITH CONVEYOR. DRILL AND TAP CONVEYOR BELT SHAFT. MOUNT SWITCH. MAKE CONNECTIONS WITH LPMC.
- 8 INSTALL PULLBOX, PB-60, ON SS STRUT. RUN CONDUITS FROM PB-60 TO ROPE SAFETY SWITCH AND TO ZERO SPEED SWITCH.
- 9 RUN CONDUITS FROM CONVEYOR DISCONNECT SWITCH AND CONTROL STATION AT GRADE ALONGSIDE INFLUENT CHANNEL WALL BENEATH CONVEYOR. THEN RUN ON CONVEYOR SUPPORTS, POWER CONDUIT TO MOTOR AND CONTROL CONDUIT TO PULLBOX.
- 10 MOUNT DISCONNECT SWITCH AND CONTROL STATION FOR CONVEYOR ON SS STRUT. SHOWN HERE BUT MOUNT AT 48" ABOVE STANDING SURFACE.

RECORD DRAWING
DATE: 05/06/09 DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242.5700
FAX: 505.242.0673
MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION NO. 37
ELECTRICAL DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
781491		E01-501	



1. COORDINATE WITH OWNER FOR DELIVERY OF EXISTING HARDWARE CONTROL PANEL.
2. BACK PANEL WAS REMOVED FROM REPLACEMENT BAR SCREEN CONTROL PANEL ENCLOSURE TO FACILITATE CONTROL PANEL REMOVAL. REASSEMBLE AND TEST ALL FUNCTIONS PRIOR TO INSTALLATION.

- ① NOT USED.
- ② NOT USED.
- ③ NOT USED.
- ④ INSTALL REPLACEMENT BAR SCREEN CONTROL PANEL.
- ⑤ INTERCEPT EXISTING CONDUIT. REROUTE FROM MCC TO LOCATION OF REPLACEMENT CONTROL PANEL.
- ⑥ RUN CONDUIT FROM REPLACEMENT CONTROL PANEL TO BAR SCREEN. MAKE CONNECTION FOR MOTOR POWER.
- ⑦ DETAILS OF CONDUIT AND CONDUCTORS ARE SHOWN IN CONDUIT SCHEDULES.
- ⑧ NOT USED.
- ⑨ INSTALL MCC UNIT WITH STARTER MCP, CPT, ACCESSORIES, AND DOOR IN EXISTING MCC. LOCATE IN BUSSED SPACE BELOW PUMP 2 STARTER.

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	



TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I
BELL STATION #37

Design Review Committee

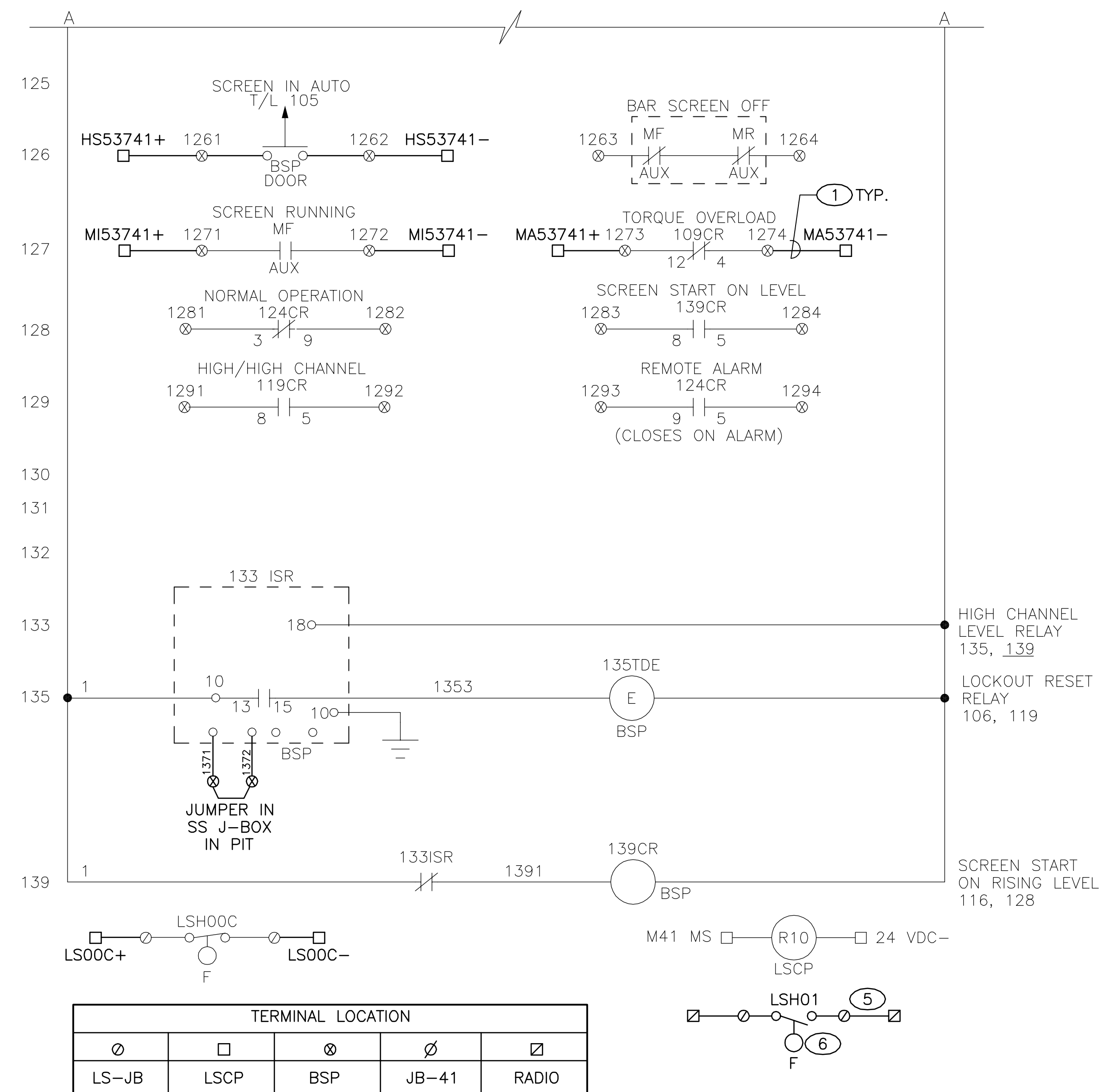
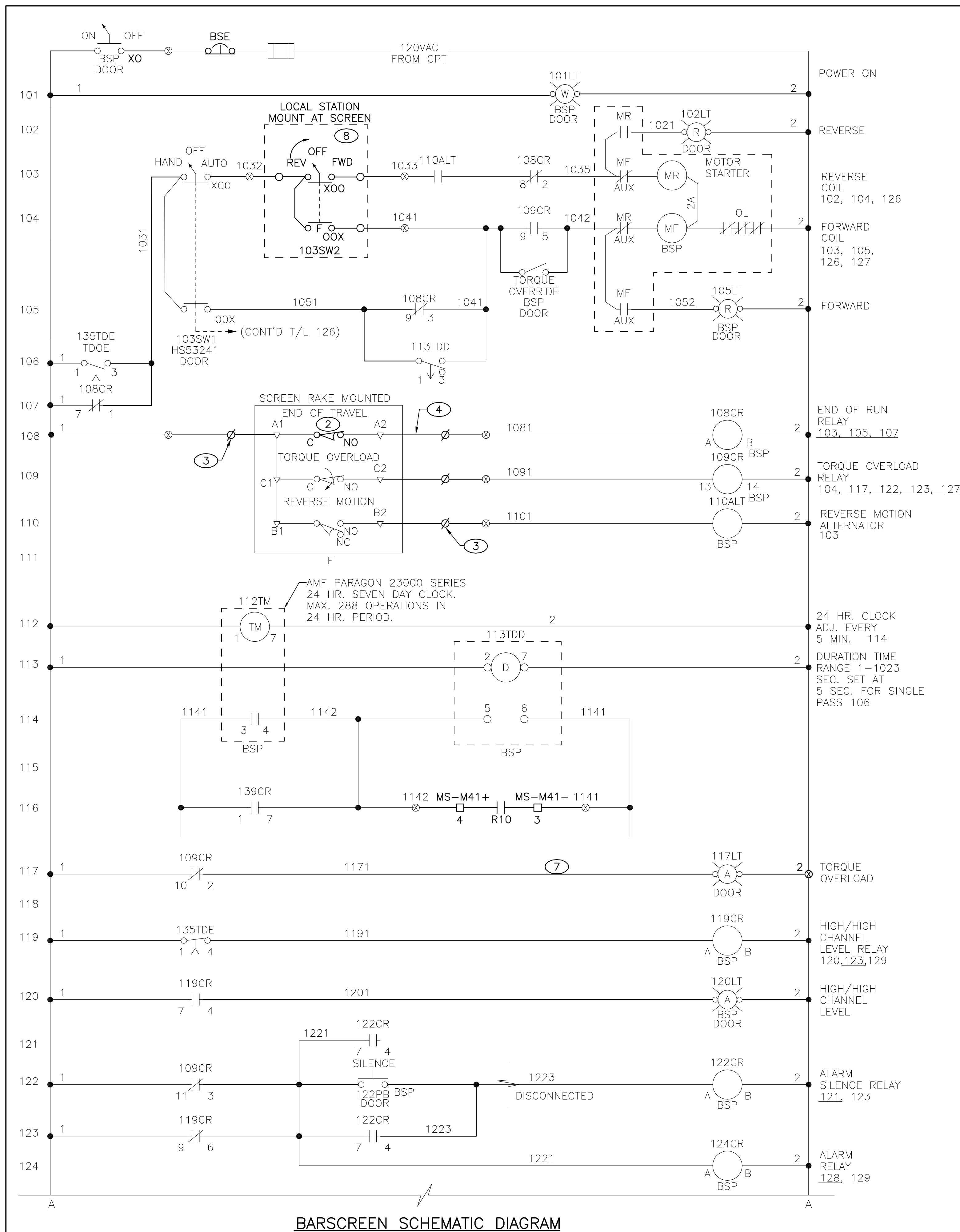
City Engineer Approval

Last Design Update

City Project No. 781491

Zone Map No.

Sheet	C
E01-601	



GENERAL NOTES

1. EXISTING BAR SCREEN CONTROL PANEL. RE-INSTALL BACK PANEL WITH CONTROL COMPONENTS IN EXISTING ENCLOSURE.
2. MAKE CONNECTIONS TO EXISTING CONTROL PANEL, LSCP. REQUIRED CONNECTIONS ARE SHOWN IN BOLD LINE WEIGHT.
3. MAKE CONDUIT CONNECTIONS TO BAR SCREEN CONTROL PANEL, BSP, AS REQUIRED TO SUIT INSTALLATIONS AT THIS PUMP STATION. CLOSE ANY UNUSED CONDUIT OPENINGS IN ENCLOSURE.
4. REQUIRED BUT NOT SHOWN: MOTOR CONNECTIONS, 3 #10, #12 G.

KEYED NOTES

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS ON INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0673



CITY OF ALBUQUERQUE
DEPARTMENT OF MUNICIPAL DEVELOPMENT

TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I

BELL STATION #37

BAR SCREEN CONTROL DIAGRAM

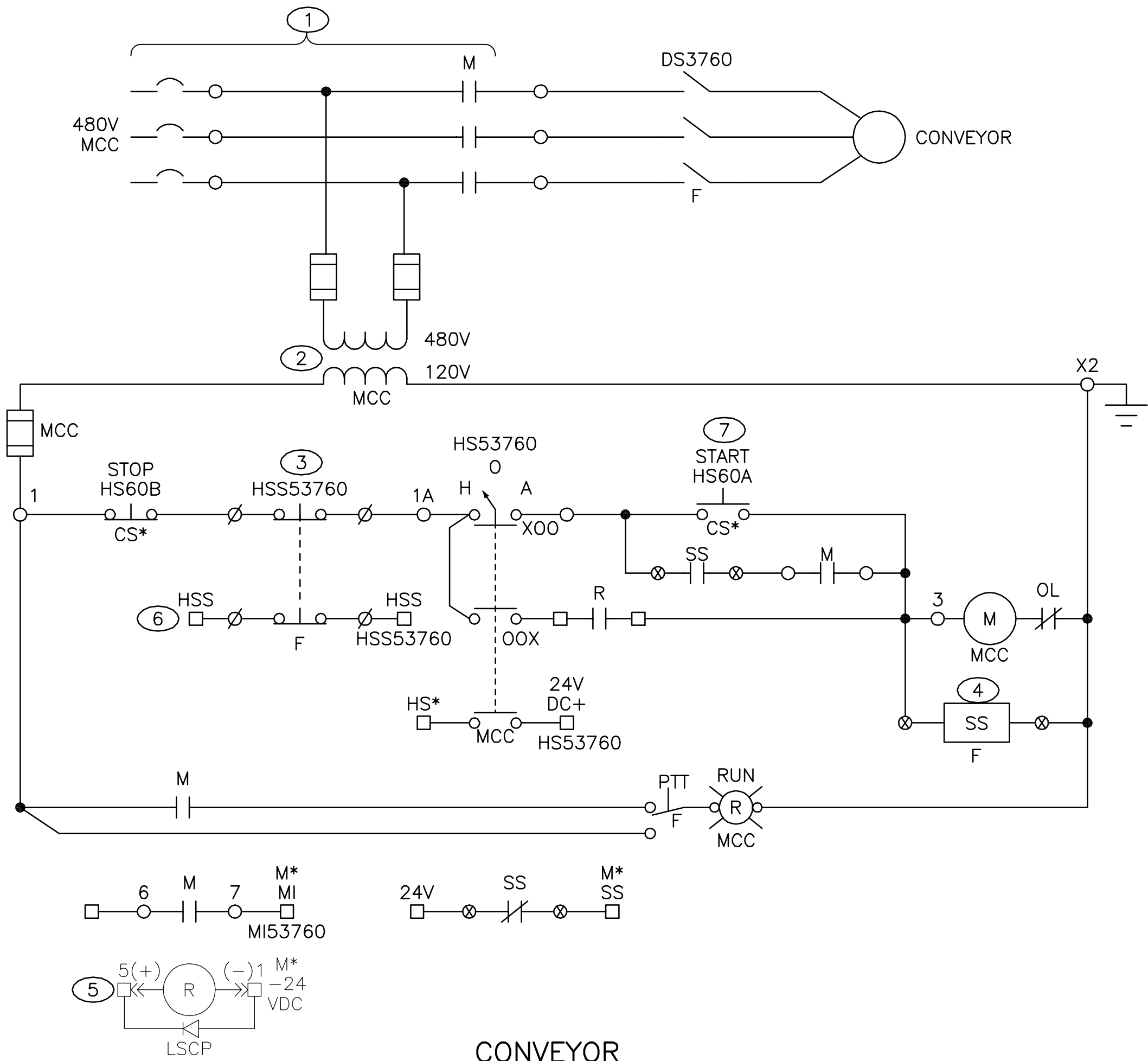
Design Review Committee	City Engineer Approval	ate	Mo./Day/Yr.	Mo./Day/Yr.
-------------------------	------------------------	-----	-------------	-------------

			Upd		
--	--	--	-----	--	--

[illegible][illegible][illegible]

(C) COPYRIGHT

ABQ061-70.D40



DESCRIPTION	TAG	*	○	□	∅	⊗
CONVEYOR	M53760	53760	MCC	LSCP	ROPE SAFETY SWITCH	ZERO SPEED SWITCH

SIGNAL/VOLTAGE SEPARATION IN INCHES							
FROM LEVEL	TO LEVEL	4 - 20 mA	24 DI	24 DO	120 DO	120 PWR	<=480
4 - 20 mA	0	1	6	6	6	26	36
24 DI	1	0	0	6	6	18	36
24 DO	6	0	0	0	0	8	36
120 DO	6	6	0	0	0	8	12
120 PWR	6	6	0	0	0	8	12
<=480	26	18	8	8	8	0	0
>480	36	36	36	12	12	0	0

NAMEPLATE SCHEDULE		
NUMBER	LOCATION	TEXT
1	DISCONNECT SWITCH FOR BAR SCREEN	DS53741, BAR SCREEN
2	BAR SCREEN CONTROL STATION	CS53741, BAR SCREEN
3	MCC STARTER FOR CONVEYOR	M53760, CONVEYOR
4	DISCONNECT SWITCH FOR CONVEYOR	DS53760, CONVEYOR
5	CONVEYOR CONTROL STATION	CS53760, CONVEYOR
6	CONVEYOR CONTROL STATION	HOLD START BUTTON UNTIL BELT IS AT SPEED

KEYED NOTES

- 1 INSTALL MCC UNIT WITH FVNR STARTER IN EXISTING MCC.
- 2 PROVIDE CONTROL POWER TRANSFORMER, CPT, WITH 100VA EXTRA CAPACITY.
- 3 CONNECT ROPE ACTUATED SAFETY SWITCH WITH AC AND DC SETS OF DRY CONTACTS.
- 4 CONNECT CPT POWER TO THE ZERO SPEED SWITCH.
- 5 EXISTING SPARE RELAY INSTALLED IN EXISTING CONTROL PANEL. CONNECT AND RE-LABEL TO INDICATE CONVEYOR START RELAY.
- 6 EXISTING SPARE TERMINAL BOARDS IN EXISTING CONTROL PANEL. CONNECT; RE-LABEL TO IDENTIFY CONNECTED INPUT, TYPICAL THIS SYMBOL.
- 7 INSTALL NAMEPLATE: HOLD START PUSHBUTTON UNTIL CONVEYOR IS AT SPEED.

CONDUIT NUMBER	ORIGIN	DESTINATION	CONDUIT SIZE	CONDUCTORS	NOTES
P53741	MCCA	BAR SCREEN CONTROL PANEL, BSP	3/4"	3 #10, #12 G.	EXTEND EXIST. CONDUIT VIA PB-41
P53741A	BAR SCREEN CONTROL PANEL, BSP	BAR SCREEN J-BOX, JB-41	3/4"	3 #10, #12 G	VIA PB-41 AND DS53741
P53741B	SCREEN J-BOX, JB-41	BAR SCREEN MOTOR, M53741		4C #10, SJOW CORD	VIA RAKE MOUNTED J-BOX
P53760	MCCA, CONVEYOR STARTER	CONVEYOR MOTOR, M53760	3/4"	3 #10, #12 G	VIA PB-41 AND DS53760
C53700A	LIFT STATION CONTROL PANEL, LSCP	LE001, WET WELL LEVEL ELEMENT 001	1"	RF CABLE	INSTALL UTILITY FURNISHED CABLE TO LIT537000A IN LSCP. UTILITY WILL CONNECT.
C53700B	LIFT STATION CONTROL PANEL, LSCP	LE002, WET WELL LEVEL ELEMENT 002	1"	RF CABLE	INSTALL UTILITY FURNISHED CABLE TO LIT537000B IN LSCP. UTILITY WILL CONNECT.
C53741	BAR SCREEN CONTROL PANEL, BSP	LIFT STATION CONTROL PANEL, LSCP	1"	3 TWSH	HS, MI, MA
C53741A	LIFT STATION CONTROL PANEL, LSCP	BAR SCREEN CONTROL PANEL, BSP	3/4"	TWSH	MS
C53741B	LIFT STATION CONTROL PANEL, LSCP	CHANNEL LEVEL SWITCH, LSH53740	3/4"	TWSH	
C53741C	BAR SCREEN CONTROL PANEL, BSP	LS1, CHANNEL HIGH LEVEL SWITCH	3/4"	2 #14 THWN, G.	
C53741D	BAR SCREEN CONTROL PANEL, BSP	BS CONTROL STATION, CS53741	3/4"	7 #14 THWN, G.	
C53741E	BS CONTROL STATION, CS53741	BAR SCREEN J-BOX, JB-41	3/4"	4 #14 THWN, G.	
C53741F	BAR SCREEN J-BOX, JB-41	BAR SCREEN TORQUE SWITCHES		7C #14 SJOW CORD	VIA RAKE MOUNTED J-BOX
C53741G	BAR SCREEN CONTROL PANEL, BSP	BAR SCREEN END OF TRAVEL SWITCH	3/4"	2 #14 THWN, G.	VIA JB-41
C53760	MCCA, CONVEYOR STARTER	LIFT STATION CONTROL PANEL, LSCP	3/4"	2 TWSH	HS, MI
C53760A	MCCA, CONVEYOR STARTER	LIFT STATION CONTROL PANEL, LSCP	3/4"	2 #14 THWN, G.	MS. INSTALL IN EXISTING CONDUIT WITH PUMP CONTROL MS53702
C53760B	MCCA, CONVEYOR STARTER	CONVEYOR CONTROL STA. CS53760	3/4"	6 #14 THWN, G.	VIA PB-60
C53760C	CONVEYOR CONTROL STA. CS53760	ROPE SAFETY SWITCH, HSS53760	3/4"	2 #14 THWN, G.	VIA PB-60A
C53760D	CONVEYOR CONTROL STA. CS53760	CONVEY. ZERO SPEED SWITCH, SS53760	3/4"	2 #14 THWN, G.	VIA PB-60A, IN CONDUIT C53760C T O PB-60A
C53760E	LIFT STATION CONTROL PANEL, LSCP	ROPE SAFETY SWITCH, HSS53760	3/4"	TWSH	
C53760F	LIFT STATION CONTROL PANEL, LSCP	CONVEY. ZERO SPEED SWITCH, SS53760		TWSH	ROUTE IN CONDUIT WITH HSS53760

RECORD DRAWING	
DATE: 05/06/09	DRAWN BY: RA
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. MOLZEN-CORBIN AND ASSOCIATES WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	



CITY OF ALBUQUERQUE DEPARTMENT OF MUNICIPAL DEVELOPMENT			
TITLE: EMERGENCY STORM WATER PUMP STATION IMPROVEMENTS PHASE I BELL STATION #37			
Design Review Committee		City Engineer Approval	
City Project No. 781491		Zone Map No.	
Sheet 781491		Of E01-611	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	DATE	NO.	BY	DATE
STAKED BY	DATE						
INSPECTED BY	DATE						
FIELD ADJUSTMENT BY	DATE						
DRAWN BY	DATE						
CHECKED BY	DATE						
MICRO-FILM INFORMATION				RECORDED BY			
				NO.			