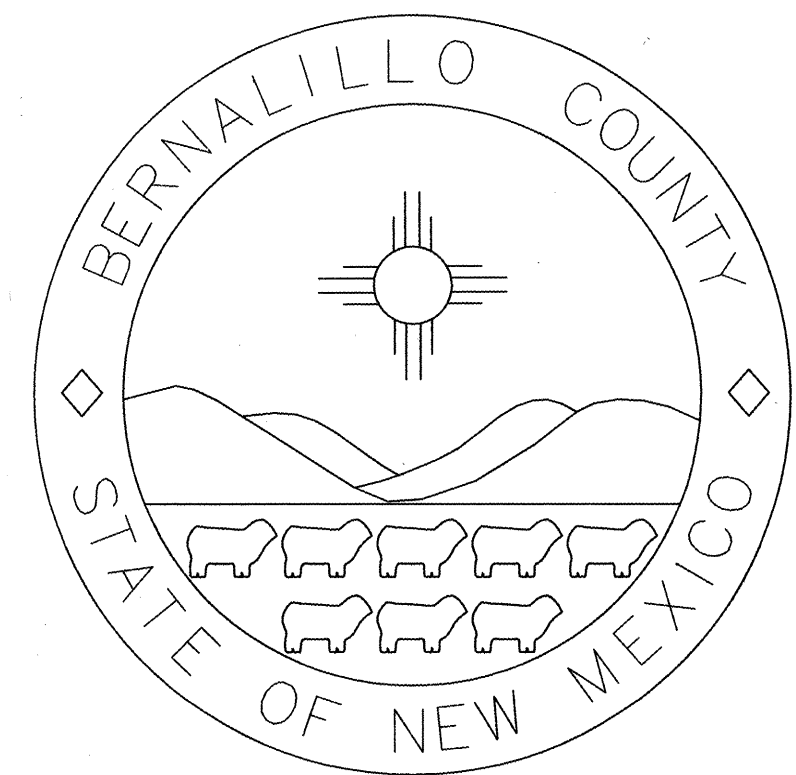


BERNALILLO COUNTY OF NEW MEXICO
PUBLIC WORKS DIVISION
TECHNICAL SERVICES DEPARTMENT

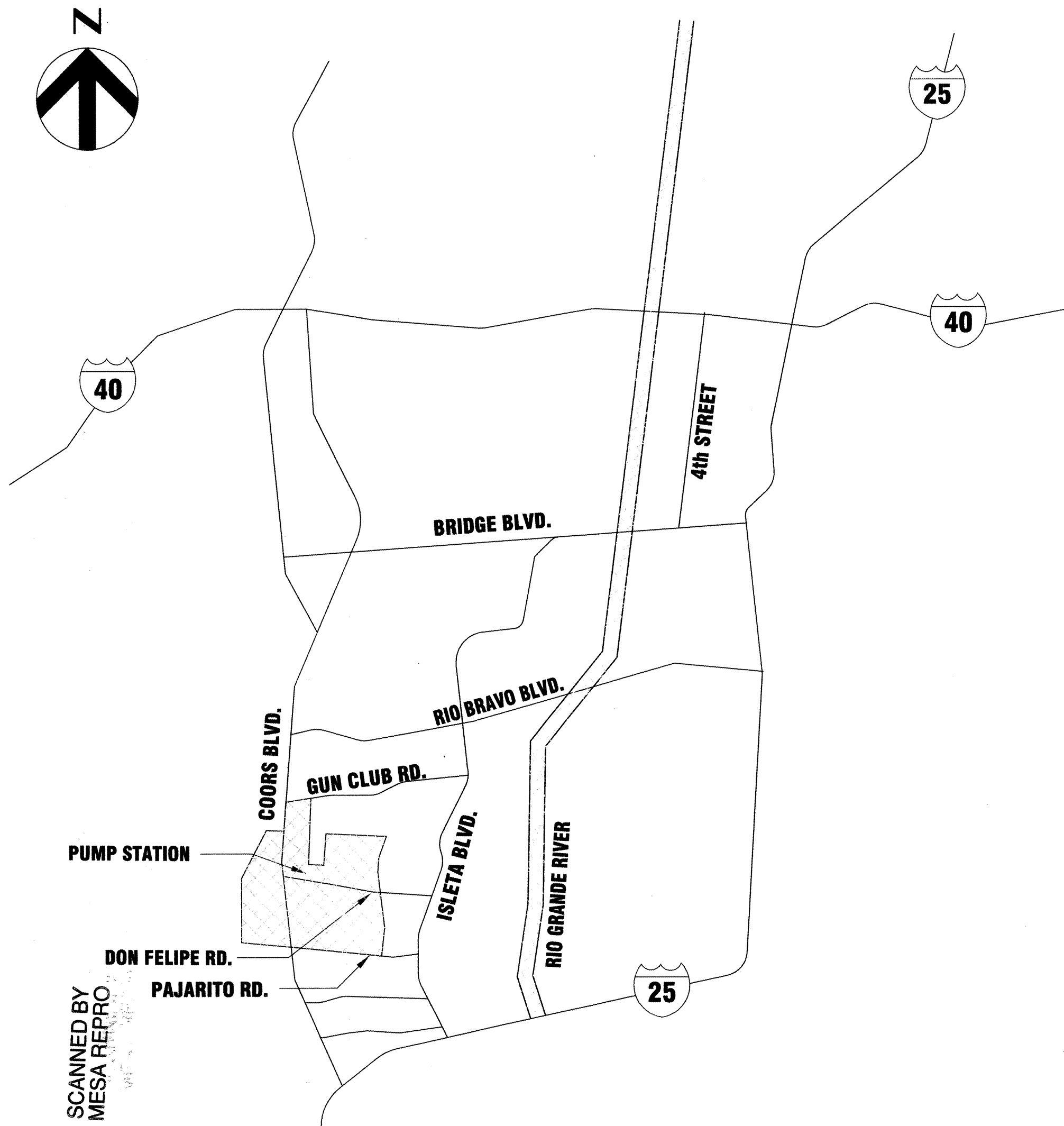
CONSTRUCTION PLANS
FOR

PAJARITO AREA
VACUUM STATION
(PHASE III)

BERNALILLO
COUNTY
PUBLIC WORKS



STATE
OF
NEW MEXICO



2701A DON FELIPE ROAD SW

"AS RECORDED"
From Information
provided by the
contractors
Date 7/2/23

INDEX OF DRAWING SHEETS

SHT	DESCRIPTION
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7	STRUCTURAL DETAILS (2 OF 3)
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20	ELECTRICAL SITE LAYOUT
21	POWER AND LIGHTING PLANS BELOW AND AT GRADE LEVEL
22	ONE LINE DIAGRAMS
23	DETAILS
24	CONTROL DIAGRAMS
25	NEW WATER SERVICE LINE - STA. 10+00 TO STA. 22+00

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 9-18-03

DRB# 1000930

HDR
HDR Engineering, Inc.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		[Signature]		9-11-02	
		Transportation		[Signature]		8-15-02	
		Water/Wastewater		[Signature]		9-4-02	
		Hydrology		[Signature]		9-12-02	
		Parks		[Signature]			
		Const. Mngmt.		[Signature]			
HDR PROJECT MANAGER WILLIAM F. ZIMMERMAN		PROJECT NO.		TS - 01 - 13 COA - 647291		SHEET 1 OF 25	

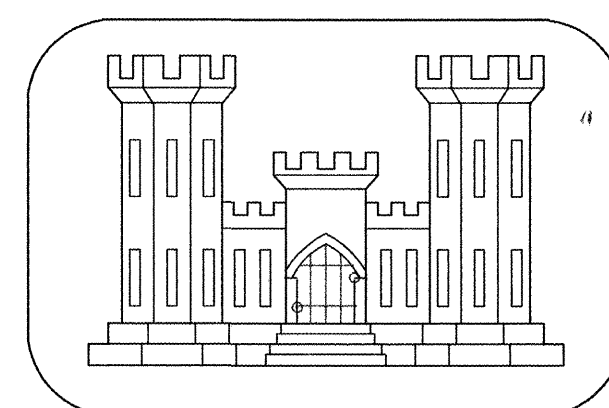
PAJARITO AREA VACUUM SEWER PROJECT

ALBUQUERQUE, NEW MEXICO

PAJARITO AREA VACUUM STATION

SOLICITATION NO. : DACW47-02-R0003

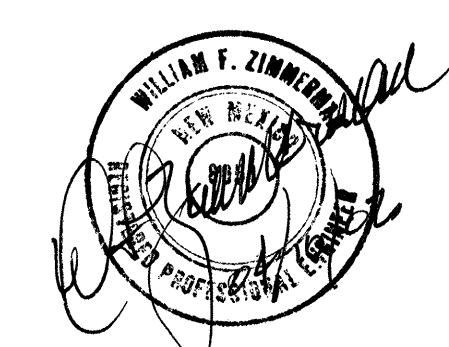
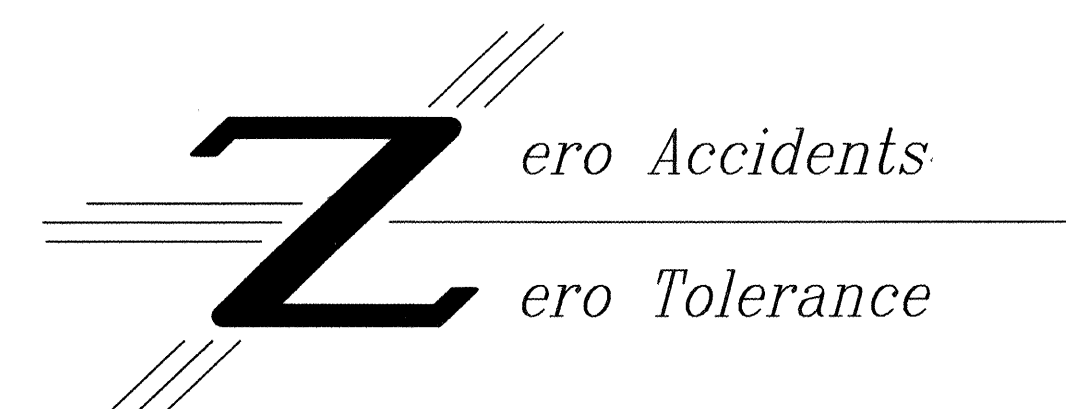
DATED : APRIL 09, 2002



United States Army
Corps of Engineers

...Serving the Army
...Serving the Nation

Albuquerque District



SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED.

SUBMITTED:

William F. Zimmerman PE
CHIEF, DESIGN BRANCH

APPROVED:

William F. Zimmerman PE
CHIEF, ENGINEERING AND PLANNING DIVISION

THIS PROJECT WAS DESIGNED BY THE ALBUQUERQUE DISTRICT OF THE U.S. ARMY CORPS OF ENGINEERS. THE INITIALS OR SIGNATURES AND REGISTRATION DESIGNATIONS OF INDIVIDUALS APPEAR ON THESE PROJECT DOCUMENTS WITHIN THE SCOPE OF THEIR EMPLOYMENT AS REQUIRED BY ER 1110-1-8152.

COA #647291

Sheet 1A

MISCELLANEOUS

NOTIFY APS AND PAJARITO ELEMENTARY SCHOOL PRINCIPAL AS TO CONSTRUCTION SCHEDULE.

CONTRACTOR MUST TAKE CARE IN THE SAFETY OF PEDESTRIAN TRAFFIC TO THE ELEMENTARY SCHOOL.

WATER LINE ON APS PROPERTY SHALL BE CONSTRUCTED DURING THE SUMMER SCHOOL BREAK.

THE CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY PUBLIC WORKS DIVISION TRAFFIC CONTROL MANAGER, FIRE DEPARTMENT AND SHERIFF'S DEPARTMENT IN WRITING A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ANY STREET CLOSURES AND PRIOR TO ANY WORK WITHIN COUNTY RIGHT-OF-WAY.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

THE CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING FROM BASELINES, GRADES AND BENCH MARKS SHOWN ON THE PLANS, OR AS DETERMINED IN THE FIELD BY THE ENGINEER. REESTABLISHMENT OF LOST, MISSING, OR DISTURBED REFERENCE POINTS SHALL BE PERFORMED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TRENCHES IN A SAFE CONDITION.

THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY WORK CREWS.

LIMIT CONSTRUCTION ACTIVITIES TO WITHIN PERMANENT AND CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY SHOWN ON DRAWINGS.

THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. SALVAGE OF ANY MATERIAL SHALL BE IDENTIFIED BY THE ENGINEER. WORK MATERIALS SHALL BE DISPOSED OF IN APPROVED WASTE AREAS SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.

PROJECT SIGN SHALL BE ERECTED, AND SHALL BE LOCATED AT THE SOUTHWEST CORNER OF THE SITE FACING SOUTH. SEE SPECIFICATIONS FOR SIGN REQUIREMENTS BY EPA.

UTILITIES

A MINIMUM OF TWO (2) WORKING DAYS, BUT NOT MORE THAN TWENTY (20) WORKING DAYS PRIOR TO ANY EXCAVATION AT A PARTICULAR LOCATION, THE CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.

IN ADVANCE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING WHETHER OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC., ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION.

ALL WATER VALVE BOXES AND SEWER MANHOLES WITHIN PAVEMENT AREAS ARE TO BE ADJUSTED TO FINISH GRADE PER C.O.A. STANDARD DETAILS. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

THE CONTRACTOR SHALL COORDINATE ANY WATER VALVE SHUT-OFF OPERATION WITH THE WATER SYSTEMS DIVISION (857-8200) NOT LESS THAN THREE (3) WORKING DAYS PRIOR TO INITIATING ANY WORK AFFECTING EXISTING WATER UTILITIES. WATER SERVICE SHALL BE MAINTAINED TO ALL CUSTOMERS DURING CONSTRUCTION.

CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC, AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST TO THE OWNER. EXPOSED CABLE IS TO BE SUPPORTED EVERY 15" (MIN.) CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER. COST FOR SAID WORK WILL BE CONSIDERED INCIDENTAL TO ALL OTHER COSTS.

THE CONTRACTOR SHALL SUPPORT AND MAINTAIN THE INTEGRITY OF ALL GAS LINES. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. GAS LINES THAT MUST BE RELOCATED ARE TO BE COORDINATED WITH THE UTILITY OWNER FOR RELOCATION AND WILL BE CONSIDERED INCIDENTAL TO ALL OTHER COSTS.

ALL ABANDONED UTILITY LINES THAT ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

ALL TEMPORARY WATERLINE AND TEMPORARY CAPPING AND BLOCKING OF EXISTING WATERLINE REQUIRED FOR THE INSTALLATION OF ANY TEMPORARY WATERLINE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

VACUUM MAIN LOCATIONS SHOWN ON THE PLANS ARE BEING CONSTRUCTED IN A SEPARATE CONTRACT. COORDINATE WITH OTHER CONTRACTORS FOR FINAL LOCATION.

DESIGN CRITERIA:

DESIGN SHALL BE ACCORDING TO THE 1997 UNIFORM BUILDING CODE
DESIGN LIVE LOADS -
ROOF OVER STAIRS 20 PSF
MAIN ROOF 20 PSF
DESIGN DEAD LOADS - 20 PSF(EXCLUDING PRECAST HOLLOW CORE SLAB UNITS)

GEOTECHNICAL:
GEOTECHNICAL INFORMATION BASED UPON REPORT BY AMEC EARTH & ENVIRONMENTAL REPORT # D-517-000161 DATED 17 JANUARY 2001
WIND LOADS:
WIND LOADS BASED UPON BASIC SPEED OF 80 MPH

SEISMIC DESIGN:
SEISMIC DESIGN BASED UPON SEISMIC ZONE 2B IMPORTANCE FACTOR IS 1.15

GENERAL

- DESIGN IS IN ACCORDANCE WITH THE 1997 EDITION OF THE UNIFORM BUILDING CODE AND ITS LATEST SUPPLEMENTS, EXCEPT WHERE OTHER APPLICABLE CODES OR THE FOLLOWING NOTES ARE MORE RESTRICTIVE.
- CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS ARE MEANT TO APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS OR IN SPECIFIC DRAWINGS.
- STRUCTURAL DIMENSIONS AND PENETRATIONS CONTROLLED BY OR RELATED TO MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DRAWINGS SHALL BE PROVIDED AND VERIFIED BY CONTRACTOR PRIOR TO PLACING CONCRETE.
- STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, CIVIL DRAWINGS AND SHOP DRAWINGS PROVIDED BY MANUFACTURERS OF EQUIPMENT.
- STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND BALANCING WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR.
- HANDRAILS, STAIRS AND LADDERS SHALL CONFORM TO LATEST OSHA REQUIREMENTS.
- WATERSTOPS TO BE 6" WIDE x 3/8" THICK BULB TYPE GREENSTREAK PLASTIC PRODUCTS STYLE #705, OR GREENSTREAK LOCKSTOP, STYLE #595 AS INDICATED BY THE PLANS AND DETAILS, UNLESS NOTED OTHERWISE.

FOUNDATION AND SLAB ON GRADE

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES AND OPENINGS IN FOUNDATION AND SLAB.
- NO BACKFILL SHALL BE PLACED AGAINST ANY STRUCTURE WALL, UNTIL THE WALL HAS REACHED FULL STRENGTH AND THE PERMANENT HOLLOW CORE SLAB UNITS ARE SECURED IN PLACE.

CONCRETE

- ALL STRUCTURAL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS. UNLESS OTHERWISE NOTED, ALL CONCRETE CONSTRUCTION, INCLUDING BENDING OF BARS, SHALL COMPLY WITH A.C.I. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (A.C.I. 318-99) AND CURRENT CRSI STANDARDS.
- LOCATION OF ALL CONSTRUCTION JOINTS AND CONTROL JOINTS SHALL BE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER. CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED FOR BOND. PROVIDE WATERSTOP AT ALL CONSTRUCTION JOINTS IN WATER BEARING SLABS AND WALLS.
- REINFORCEMENT STEEL SHALL BE DEFORMED BARS CONFORMING IN QUALITY TO THE REQUIREMENT OF THE SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT, ASTM DESIGNATION A615, GRADE 60.

- UNLESS SHOWN OTHERWISE, ALL DOWELS SHALL BE SAME SIZE AND SPACING AS THE REINFORCEMENT WHICH IS TO BE SPICED TO THE DOWELS. DOWELS SHALL BE FIRMLY HELD IN POSITION.

- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EMBEDDED ITEMS AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS.

- PLACE TWO BARS MATCHING TYPICAL SECTION REINFORCING FOR E.F. AS REQUIRED AROUND PENETRATIONS IN CONCRETE WALLS. EXTEND BARS BEYOND OPENING. SEE DETAIL THIS SHEET.

- CONCRETE COVER AND REINFORCEMENT SHALL BE AS INDICATED ON DRAWINGS. IF NOT INDICATED, THE FOLLOWING SHALL GOVERN:

- SURFACES NOT EXPOSED DIRECTLY TO GROUND, WEATHER OR WATER AFTER FORM REMOVAL 1-1/2"
- CONCRETE PLACED DIRECTLY AGAINST GROUND 3"
- SURFACES EXPOSED TO GROUND, WEATHER OR WATER AFTER FORM REMOVAL 2"

- THE REINFORCING BARS FOR ALL SLABS, BEAMS AND COLUMNS SHALL HAVE A MINIMUM EXTENSION OR ANCHORAGE INTO SUPPORTS IN ACCORDANCE WITH A.C.I. CODE (318-99).

- BARS SUPPORTS AND SPACERS SHALL BE PROVIDED IN ACCORDANCE WITH A.C.I. CODE.

- REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE OR METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED AT ALL TIMES.

- STIRRUP SUPPORT BARS SHALL BE PROVIDED BETWEEN ENDS OF TOP BARS AS REQUIRED.

- ALL STEEL EMBEDDED ITEMS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

- ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES A.C.I.-315 LATEST EDITION.

MASONRY

- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90 GRADE N-1. ALL CELLS CONTAINING HORIZONTAL OR VERTICAL REINFORCING BARS SHALL BE GROUTED SOLID.
- ASSEMBLED MASONRY SHALL HAVE A MINIMUM f'm = 1500 psi.
- ALL CONCRETE BLOCKS SHALL BE LAID IN RUNNING BOND UNLESS OTHERWISE SHOWN
- ALL REINFORCING BARS SHALL BE CONTINUOUS UNLESS OTHERWISE SHOWN. LAP BARS 48 DIAMETERS AT SPLICES UNLESS A GREATER SPLICE IS NOTED. STAGGER SPLICES WHERE POSSIBLE.
- WALL REINFORCEMENT SHALL BE PLACED AND GROUTED AS REQUIRED IN THE SPECIFICATIONS. UNLESS OTHERWISE SHOWN ON PLANS, ALL WALLS SHALL BE REINFORCED WITH A MINIMUM REINFORCING AS FOLLOWS:
12" WALLS - #6 AT 24" VERT.,
2- #5 IN BOND BEAMS
8" WALLS - #5 AT 48" O.C. VERT.,
2- #5 IN BOND BEAMS

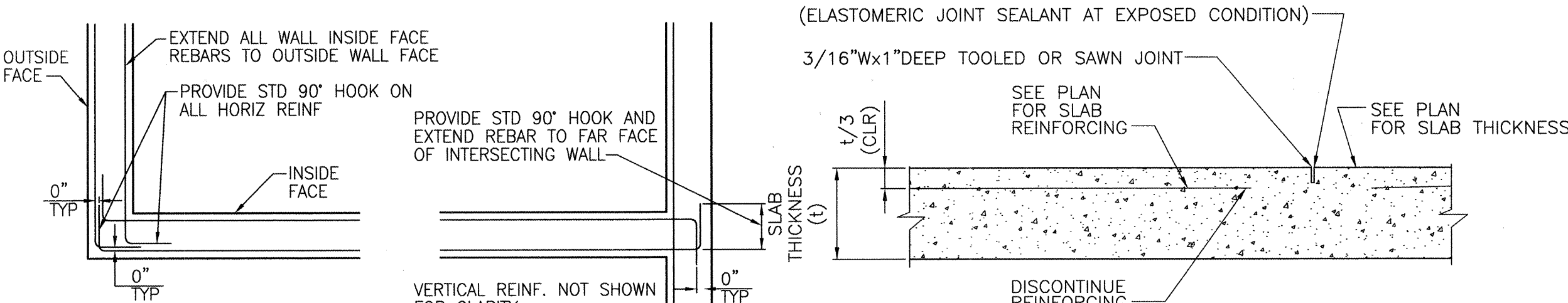
- ALL VERTICAL REINFORCING SHALL BE SPICED TO THE FOOTING DOWELS. A VERTICAL BAR SHALL BE PLACED AT ALL WALL CORNERS AND WALL INTERSECTIONS. PROVIDE VERTICAL BARS ON EACH SIDE OF WALL OPENINGS TO MATCH TYP. VERTICAL WALL REINFORCING.

- UNLESS OTHERWISE NOTED, ALL DOWELS SHALL BE THE SAME SIZE AS WALL REINFORCEMENT AND SHALL LAP 48 DIAMETERS AND EXTEND INTO THE FOOTING A MINIMUM OF 24 DIAMETERS, OR EXTEND INTO THE FOOTING A MINIMUM OF 12 DIAMETERS AND HAVE A STANDARD HOOK.

- THE BARS IN HORIZONTAL LAP SPLICES SHALL BE ALIGNED VERTICALLY AND TIED. STAGGER SPLICES.

- ALL OPENINGS SHALL HAVE A BOND BEAM AT THE TOP AND BOTTOM REINFORCED PER LINTEL SCHEDULE, SHEET S-06. REINFORCEMENT SHALL EXTEND 36" BEYOND WALL OPENINGS.

- ALL WALLS SHALL HAVE 9 GA. STD HORIZONTAL JOINT REINFORCING @ 16" O.C. UNLESS AT BOND BEAM COURSES.

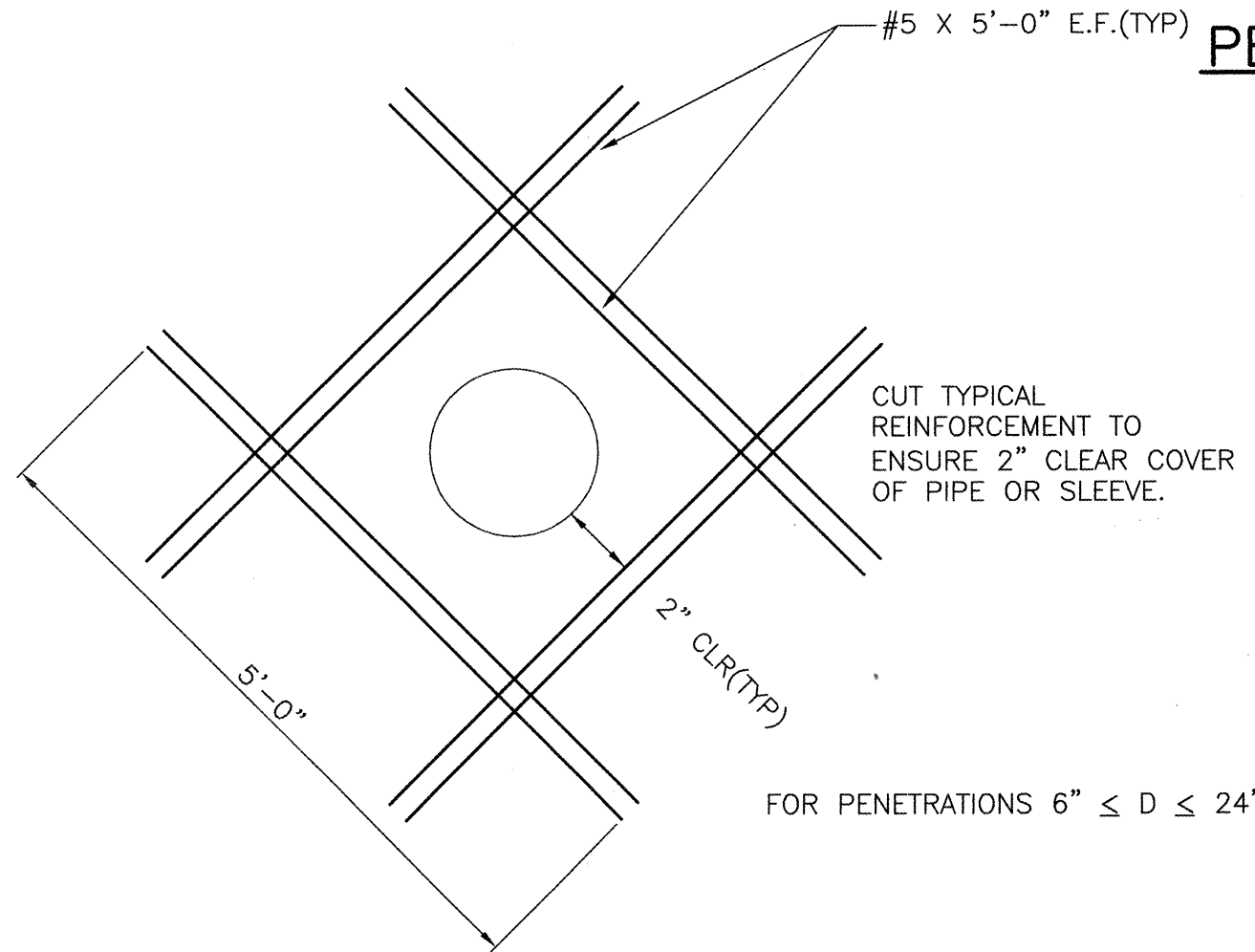


- NOTES:
- SEE INDIVIDUAL STRUCTURES FOR EXTRA HORIZONTAL REBARS AT CORNERS & WALL INTERSECTIONS.
 - WALL VERTICAL REBARS NOT SHOWN FOR CLARITY.
 - SEE TABLE BELOW FOR STD 90° HOOK LENGTHS.

PLAN "A"
WALL CORNER

PLAN "B"
WALL INTERSECTION

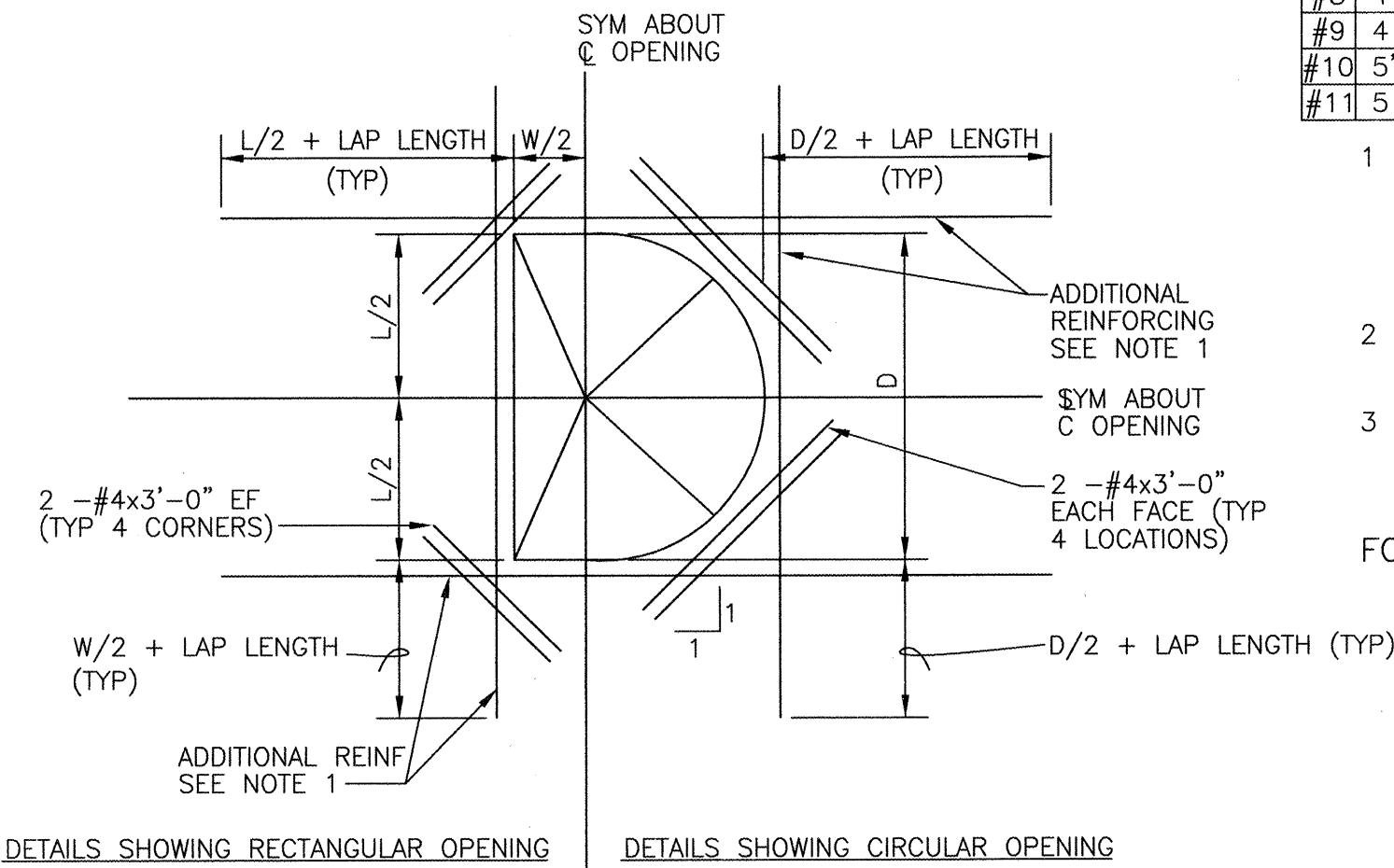
TYPICAL WALL HORIZ. REINF. DETAILS
SCALE: NOT TO SCALE



TYPICAL CONCRETE WALL PENETRATION
SCALE: NOT TO SCALE

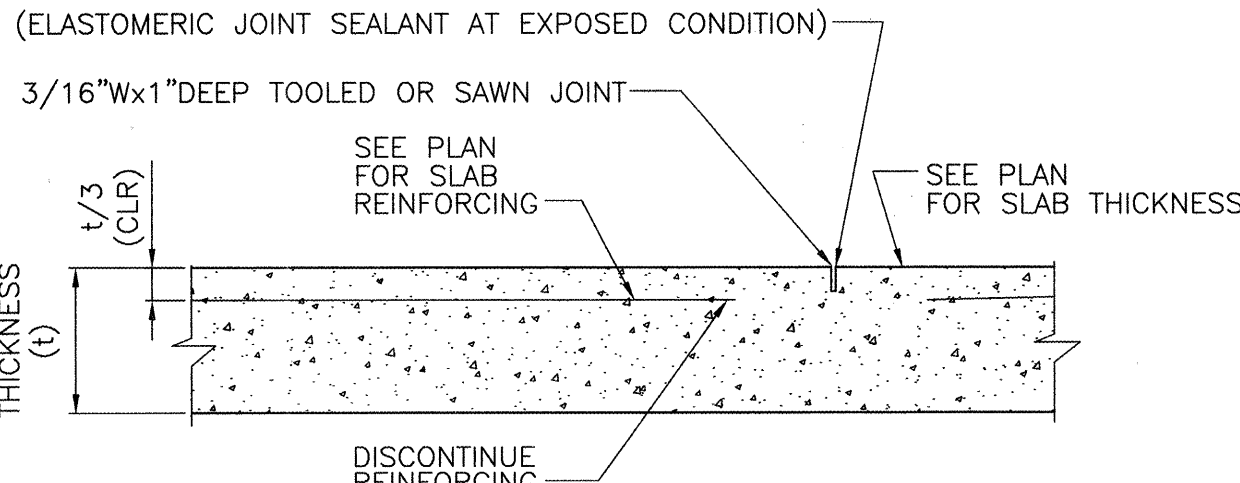
STANDARD 90° HOOKS TABLE

HOOK LENGTH										
#3	#4	#5	#6	#7	#8	#9	#10	#11		
6"	8"	10"	1'-0"	1'-2"	1'-4"	1'-7"	1'-10"	2'-0"		

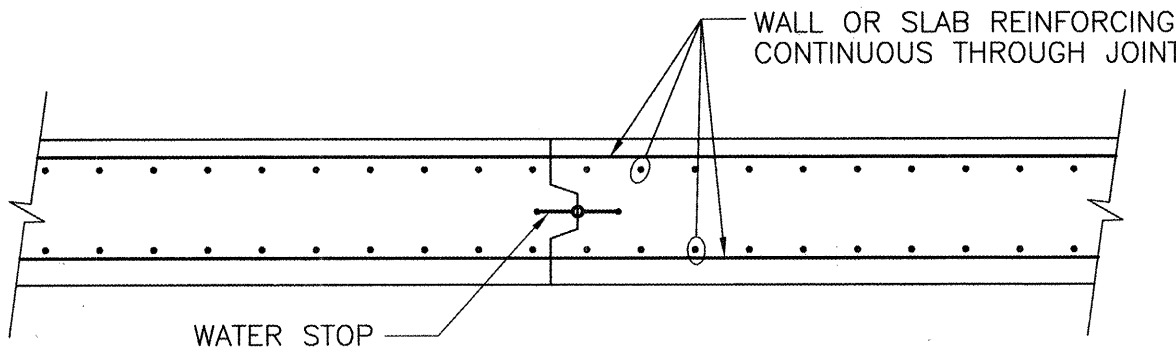


DETAIL EXTRA REBARS AROUND OPENINGS IN SLABS & WALLS
SCALE: NOT TO SCALE

- NOTES:
- ADDITIONAL REINFORCING SHALL BE THE SAME SIZE AS DISCONTINUOUS REINFORCEMENT AT OPENING. QUANTITY OF REINFORCING IN EACH DIRECTION SHALL BE EQUAL TO OR ONE GREATER THAN THE NUMBER OF DISCONTINUOUS BARS. PLACE 1/2 OF ADDITIONAL REINFORCING BARS EACH SIDE OF OPENING. PLACE ADDITIONAL REINFORCEMENT AT 3" O.C. (TYPICAL BOTH DIRECTIONS AND ALL LAYERS OF REINFORCEMENT).
 - ADDITIONAL REINFORCING SHALL EXTEND BEYOND EDGE OF OPENING AS SHOWN ABOVE. ADDITIONAL BARS MAY TERMINATE AT THE END OF THE WALL WITH A STANDARD HOOK WHERE THE LENGTH OF THE WALL WILL NOT PERMIT BARS TO EXTEND AS SHOWN ABOVE.
 - TYPICAL WALL OR SLAB REINFORCING NOT SHOWN FOR CLARITY. TERMINATE TYPICAL REINFORCING 2" CLEAR TO OPENING.
 - OPENINGS 12" OR LESS IN SLABS & OPENINGS 18" OR LESS IN WALLS, NO EXTRA REBARS ARE REQUIRED UNLESS SHOWN OTHERWISE. TYPICAL REINFORCING SHALL BE SPREAD (NOT CUT) TO ALLOW FOR OPENINGS TO BE MADE.
 - UNLESS SHOWN OTHERWISE ON DRAWINGS, PROVIDE EXTRA REINFORCING AROUND OPENINGS AS SHOWN AND INDICATED ABOVE.



TYPICAL CONTROL JOINT
SCALE: NOT TO SCALE

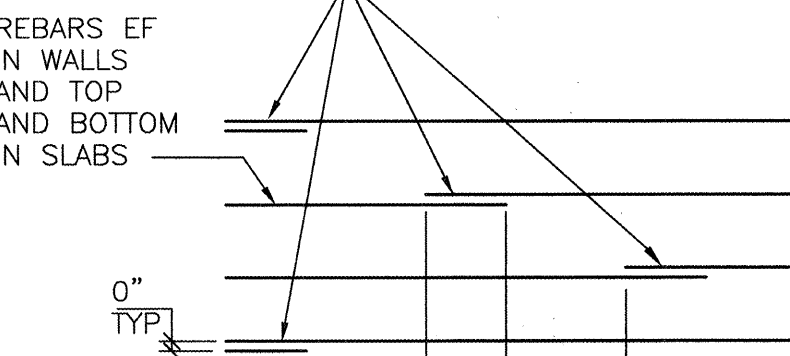


PERMISSABLE CONSTRUCTION JOINT

IN WALL OR SLAB

SCALE: NOT TO SCALE

PROVIDE REQUIRED LAP SPLICE LENGTH AS SHOWN IN SCHEDULE



LAP SPLICE LENGTH AS SHOWN IN SCHEDULE MIN BETWEEN LAPS OF ADJACENT REBARS

HORIZONTAL SLAB & WALL REFORCING

SCALE: NOT TO SCALE

BAR SPLICE TABLE

MINIMUM LAP SPLICE LENGTHS fc=4000 psi					
BAR	* MIN BAR SPACING	LAPS FOR BARS SPACED GREATER THAN MIN BAR SPACING		LAPS FOR BARS SPACED CLOSER THAN MIN BAR SPACING	
		VERTICAL	OTHER	VERTICAL	OTHER
#3	3"	1'-4"	1'-6"	1'-4"	1'-6"
#4	3"	1'-7"	2'-0"	1'-8"	2'-2"
#5	3"	1'-11"	2'-6"	2'-7"	3'-4"
#6	4"	2'-4"	3'-0"	3'-8"	4'-9"
#7	4"	3'-6"	4'-6"	4'-11"	6'-5"
#8	4"	4'-7"	5'-11"	6'-6"	8'-6"
#9	4 1/2"	5'-9"	7'-6"	8'-3"	10'-9"
#10	5"	7'-4"	9'-6"	10'-6"	13'-7"
#11	5 5/8"	9'-0"	11'-6"	12'-10"	16'-8"

- ALL REBAR SPLICES SHALL BE AS SHOWN UNDER HEADING "VERTICAL" EXCEPT IF SPLICED BARS ARE HORIZONTAL BARS WITH 12" OR MORE CONCRETE BELOW. THEN SPLICE LENGTH SHALL BE AS SHOWN UNDER HEADING "OTHER".
- * AT SPLICES THE BAR SPACING IS THE CENTER TO CENTER DISTANCE BETWEEN ADJACENT REBARS.
- ALL SPLICES SHALL BE CONTACT SPLICES AND WIRED TOGETHER.

FOR STAGGERED REINFORCING DETAIL SEE SHEET S-06

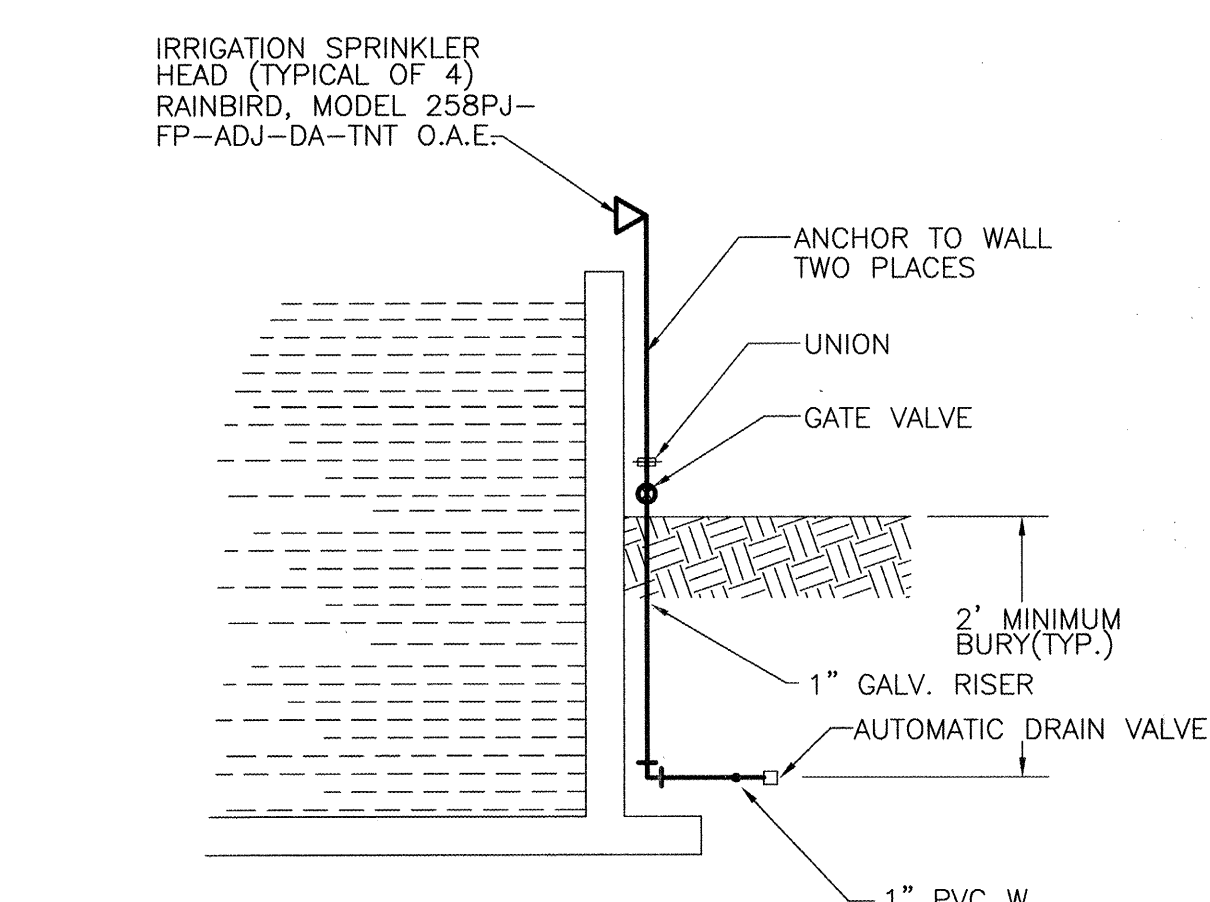
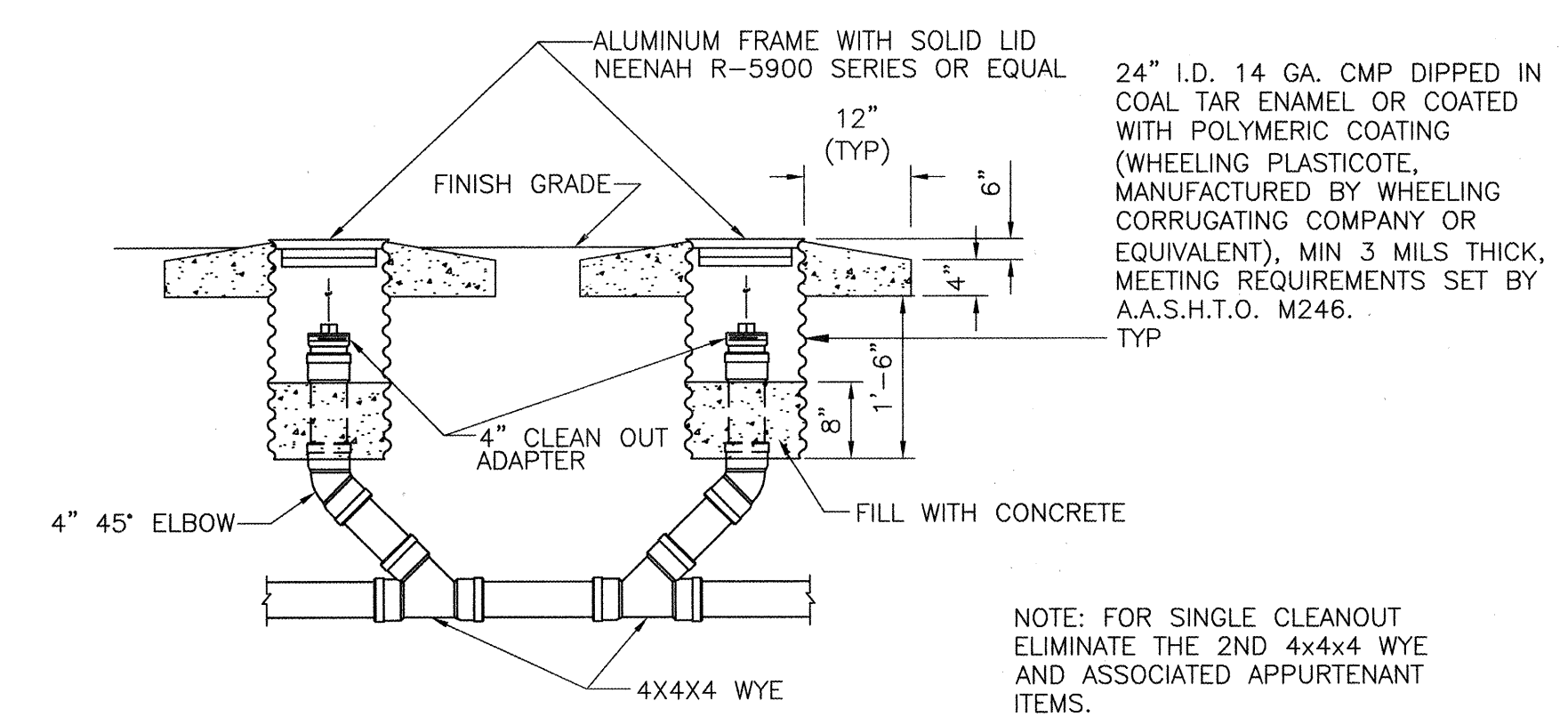
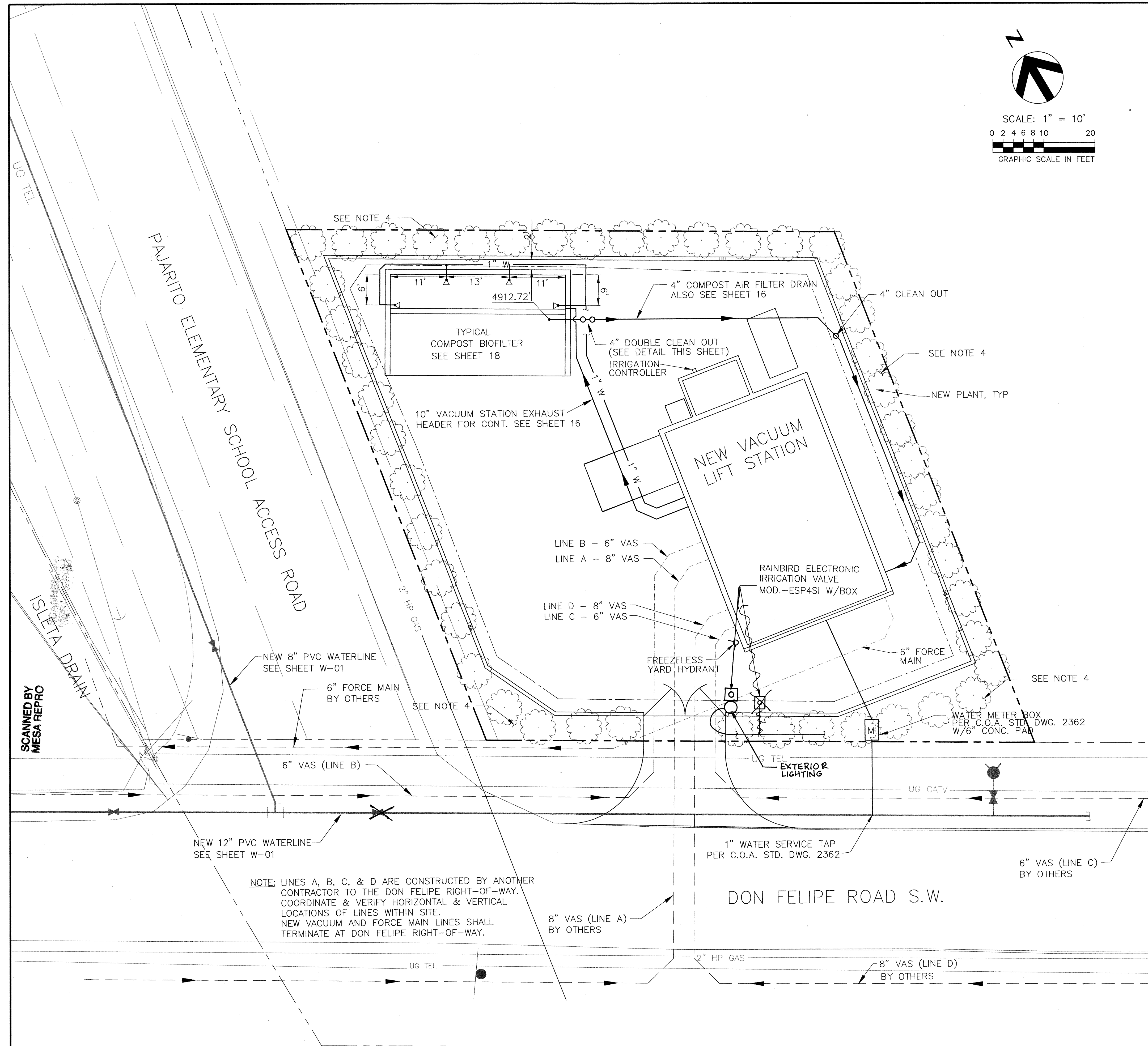
HDR

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
GENERAL
NOTES

Design Review Committee	City Engineer Approval	Mc/Day/Yr	Mc/Day/Yr
APR 10 2002	SEP 12 2002		
PROJECT NO.	TS - 01 - 13 COA - 647291	MAP NO. Q-10, R-10	SHEET OF G-02 2



- NOTES:**
- ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE LOCATIONS. VERIFY LOCATION OF ALL UNDERGROUND UTILITIES BEFORE COMMENCING WORK.
 - VACUUM STATION & ASSOCIATED PIPING CONNECTING TO SEWER LINES CONSTRUCTED BY OTHERS AND ARE ASSUMED TO BE COMPLETE PRIOR TO CONSTRUCTION OF THIS PROJECT. PROTECT PLUGGED PIPES UNTIL FINAL CONNECTION IS MADE.
 - FOR CONTINUATION OF PIPING INTO PUMP STATION SEE SHT. 16.
 - PLANT 1 GAL. PEROVSKIA FILIGRAN (COMPACT RUSSIAN SAGE) AND CHRYSOTHUMNUS NAUSEOSIS (CHAMISA RUBBER FLATBUSH) AT 5' SPACING. IRRIGATE WITH DRIP IRRIGATION.
 - TRENCHING, BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT ARE TO BE PER CITY OF ALBUQUERQUE STANDARD DETAILS AND SPECIFICATIONS.



HDR Engineering, Inc.

**BERNALILLO COUNTY
PUBLIC WORKS DIVISION**

**TITLE: PAJARITO AREA VACUUM STATION
SITE PIPING
PLAN**

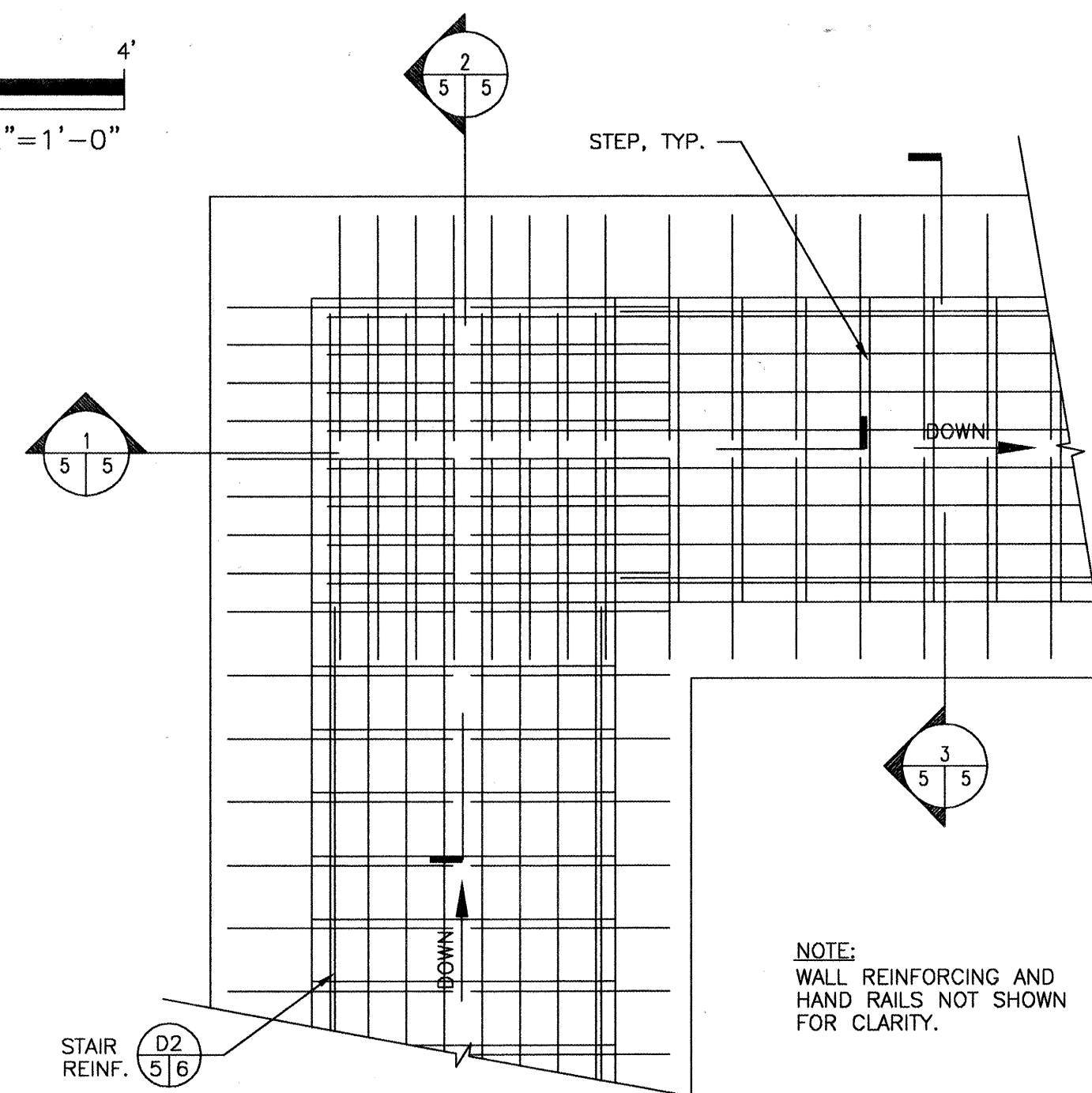
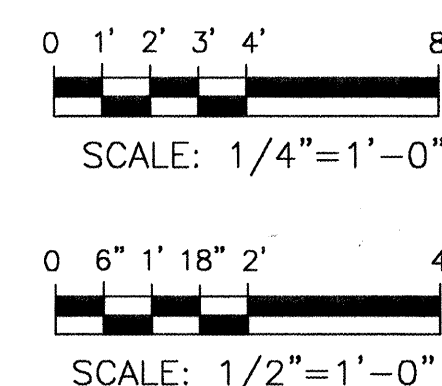
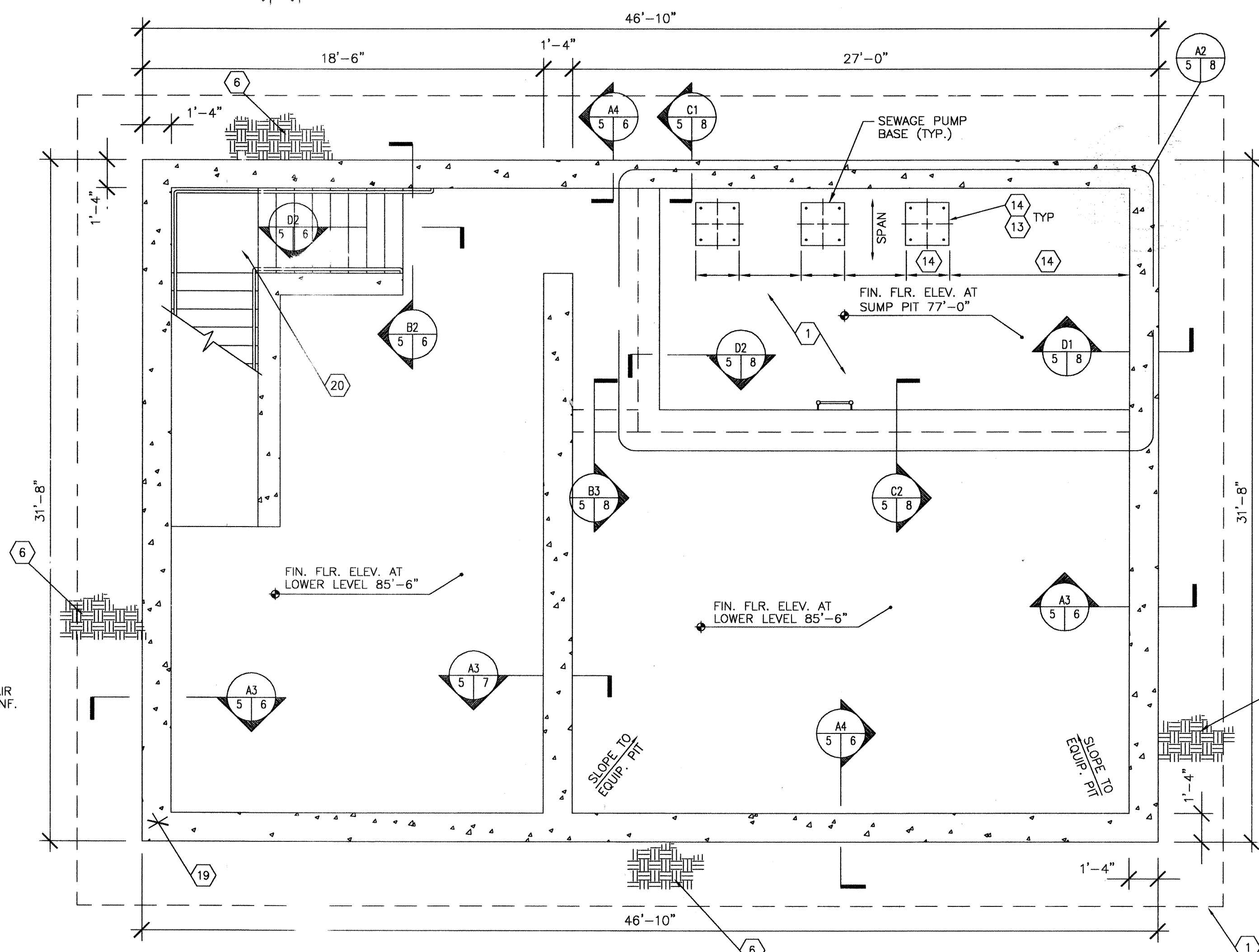
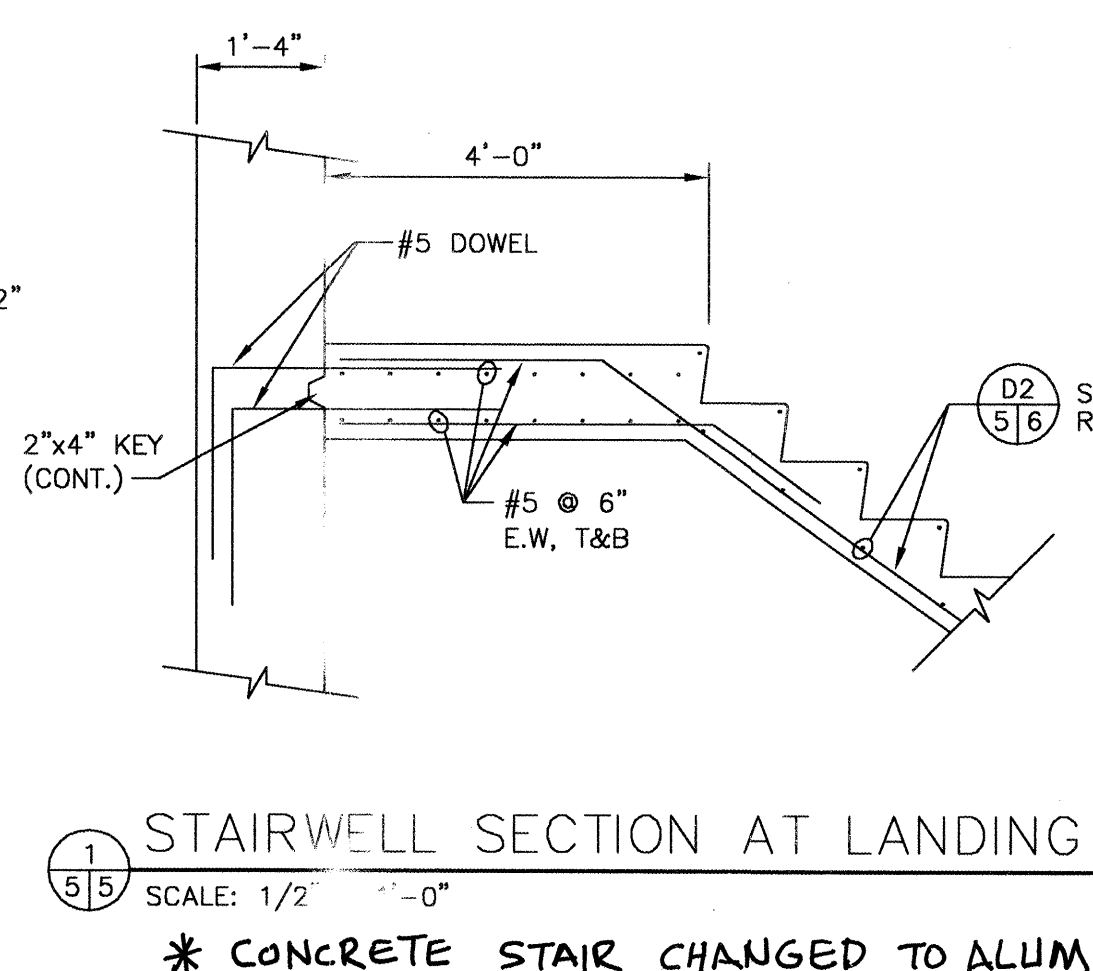
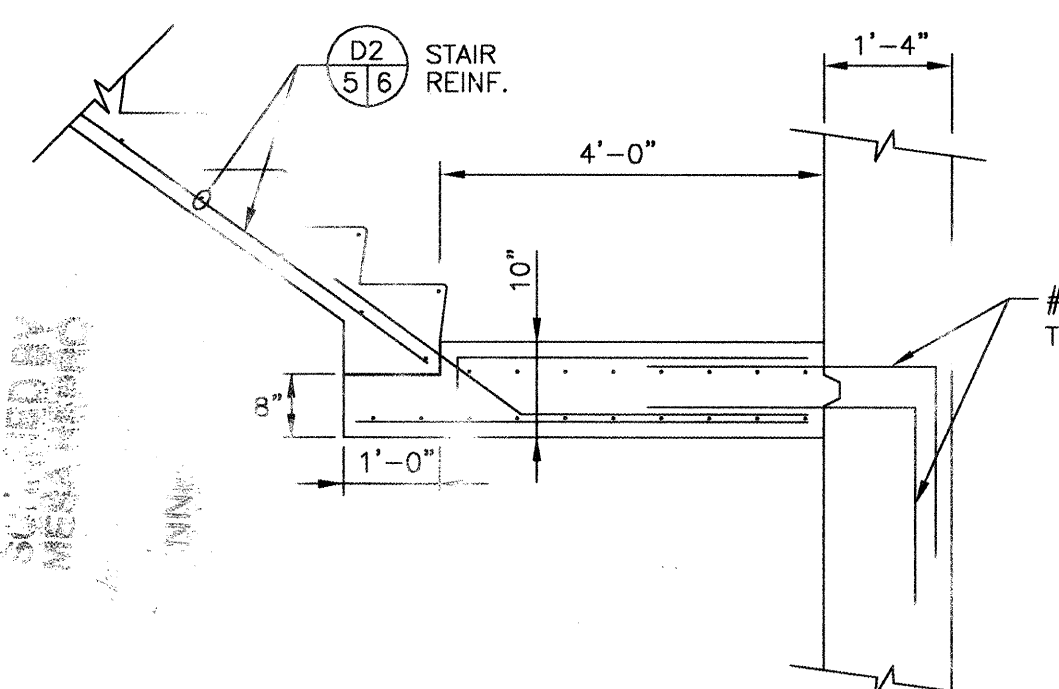
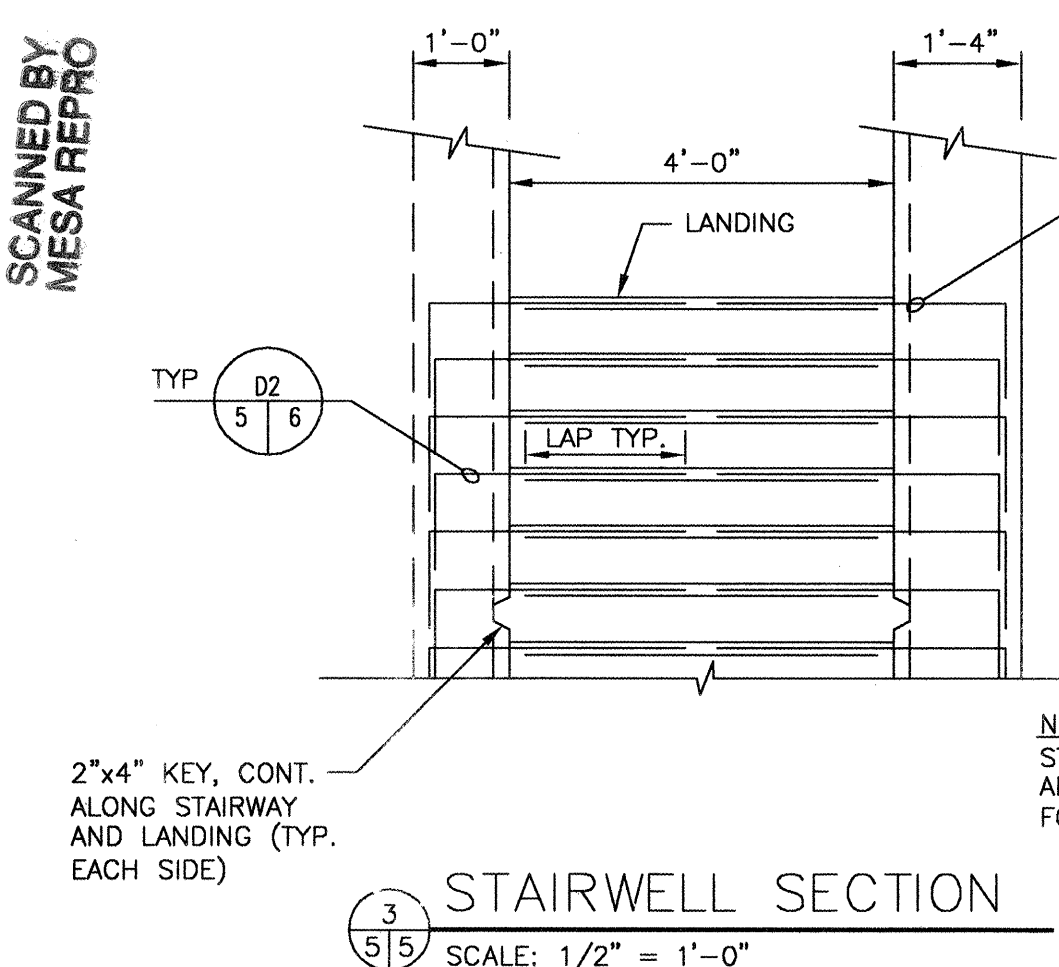
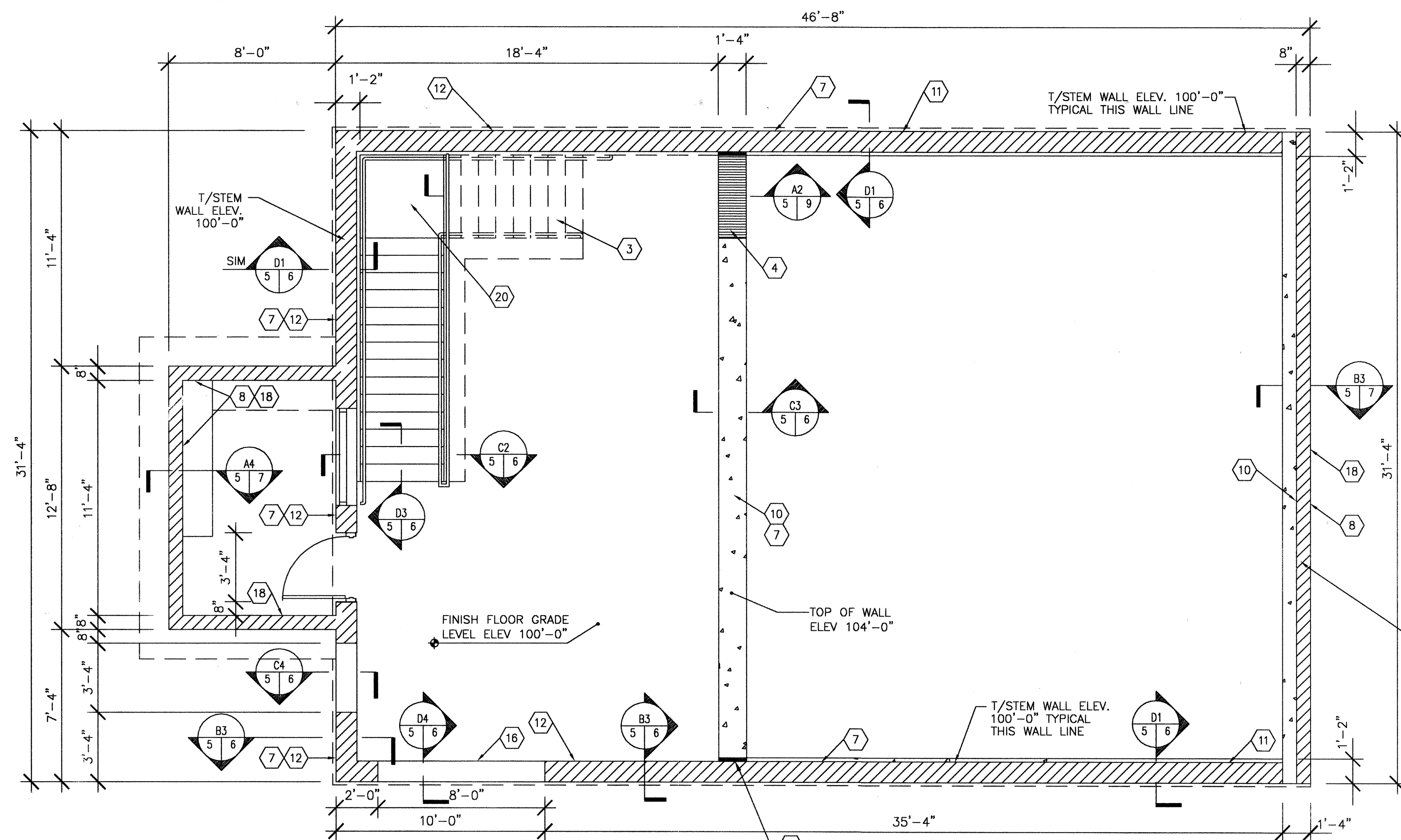
DESIGNED BY	W.F.Z.	DATE	NOV 2001	REVISIONS
DRAWN BY	RAG	DATE	NOV 2001	DESIGN
CHECKED BY	W.F.Z.	DATE	NOV 2001	

PROJECT NO.	TS - 01 - 13 COA - 647291	MAP NO.	Q-10, R-10	SHEET OF	C-02 2
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AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Cumbrs	DATE	7/18	NO.	BY	DATE	NO.
WORK	Don Felipe Road SW	DATE	7/18	NO.	BY	DATE	NO.
INSPECTOR	ASCT	DATE	7/18	NO.	BY	DATE	NO.
ACCEPTANCE	Central Zone, NAD83 (Us.ft.)	DATE	7/18	NO.	BY	DATE	NO.
VERIFICATION	N= 1 454 487.97, E= 1 502 103.18	DATE	7/18	NO.	BY	DATE	NO.
DRAWING	(Converted from NAD27 using Corpcor V5.11.05)	DATE	7/18	NO.	BY	DATE	NO.
REVISIONS	Elevation= 4918.05 NAVD88 (Us.ft.)	DATE	7/18	NO.	BY	DATE	NO.
MICRO-FILM INFORMATION	[4918.05 (NAVD88) - 2.61 = 4915.44 (NGVD29)]	DATE	7/18	NO.	BY	DATE	NO.
RECORDED BY		DATE		NO.	BY	DATE	NO.

SCANNED BY
MESA REPRO





GENERAL SHEET NOTES:

- REFERENCE FINISH FLOOR ELEVATION 4919.0 = 100'-0" AND REFERENCES DATUM C-01.
- FOR BOLLARDS AND HANDRAIL SIZES AND LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- BUILDING LOCATION SHALL BE PER SITE PLAN, SHEET C-01.
- FOR PIPE SIZES AND LOCATIONS, SEE SHEET P-01.
- FOR MECHANICAL WALL PENETRATION LOCATIONS AND SIZES, SEE AND COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SEE DETAIL SHEET P-01.
- EQUIPMENT DIMENSIONS ARE SUBJECT TO MANUFACTURING VARIATIONS. VERIFY PRIOR TO INITIATION OF CONSTRUCTION.
- FOR SHEET WATERPROOFING BELOW GRADE, SEE ARCHITECTURAL DRAWINGS.
- FOR GENERAL NOTES SEE G-02

SHEET KEYED NOTES :

- CAST-IN-PLACE CONCRETE MAT FOUNDATION SHAPE AS SHOWN x 1'-8" THICK. SEE DETAILS.
- NOT USED
- CAST-IN-PLACE CONCRETE STAIRS - SEE ARCHITECTURAL DRAWINGS FOR RISE AND RUN.
- CAST-IN-PLACE CONCRETE LINTEL AT STAIRWELL.
- FOR WALL TIES CONC./ CMU SEE ARCHITECTURAL.
- STRUCTURAL BACK FILL
- CONCRETE MASONRY UNIT - 12" WIDE
- CONCRETE MASONRY UNIT - 8" WIDE
- CONCRETE WALL PER SECTION A4/2.
- HORIZ. BOND BEAMS THIS WALL LINE PER DETAIL A1/3.
- HORIZ. BOND BEAMS THIS WALL LINE PER HORIZONTAL REINFORCING SECTION C3/7
- HORIZ. BOND BEAMS THIS WALL LINE PER HORIZONTAL REINFORCING SECTION C2/7
- LOCATION OF TANKS AND ANCHORING REQUIREMENTS SUBJECT TO EQUIPMENT SUPPLIED. COORDINATE WITH MANUFACTURER PRIOR TO CONSTRUCTION.
- EQPT. PAD, t = 3 1/2". COORDINATE LOCATION AND SIZE WITH EQUIPMENT MANUF.
- NOT USED
- COILING DOOR, SEE ARCHITECTURAL
- HORIZ. BOND BEAMS THIS WALL LINE PER HORIZONTAL REINFORCING SECTION C4/7.
- HORIZ. BOND BEAMS THIS WALL LINE PER DETAILS B1/3 AND C1/3.
- CORNER REINFOR. DETAIL, SEE SHEET G-2. TYP. WALL REIN. PER DETAIL B3/2. DOWEL VERT. BARS INTO SLAB @ TOP & BOTTOM OF WALL.
- LANDING DETAIL, SEE ENLARGED VIEW, THIS SHT.

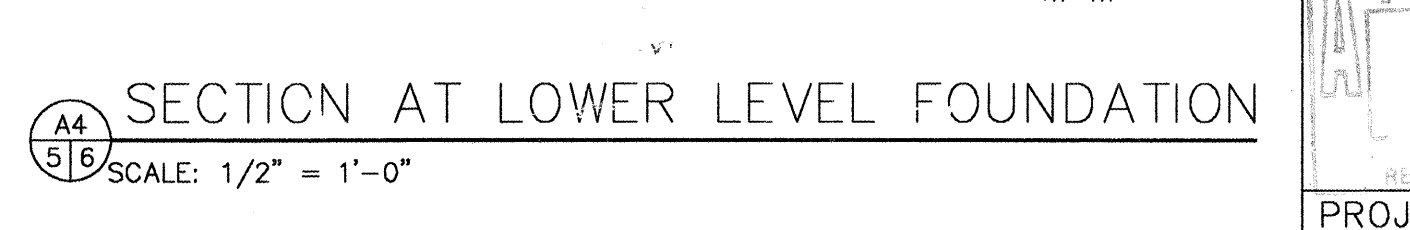
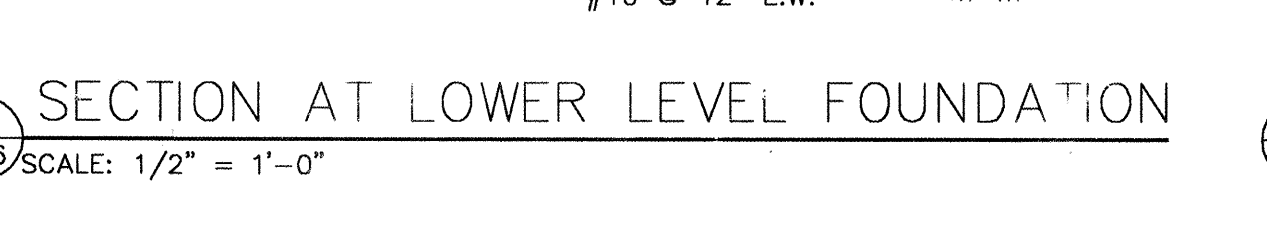
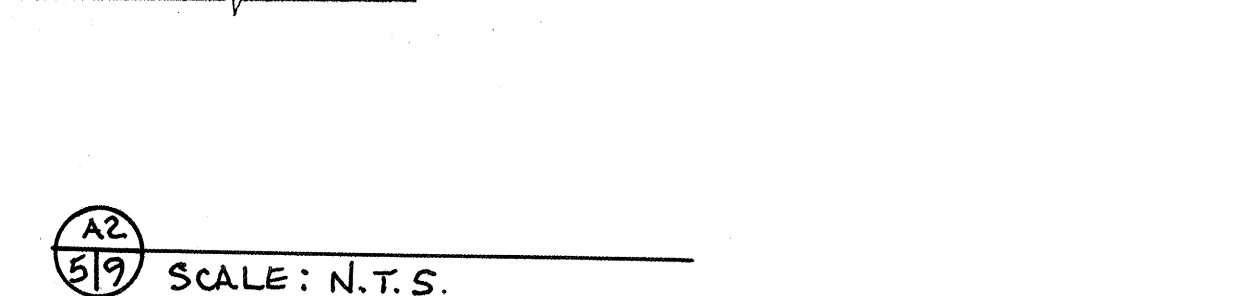
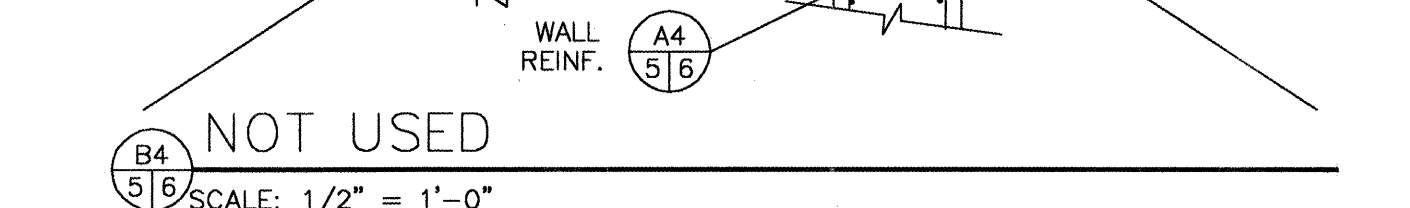
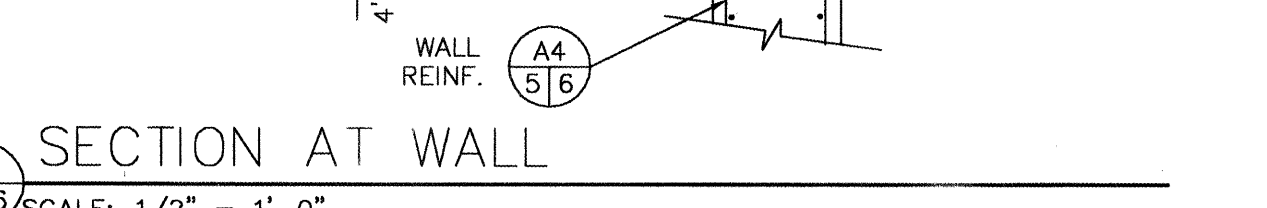
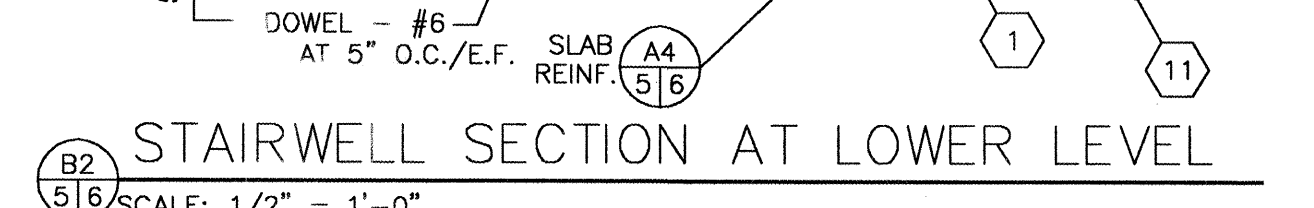
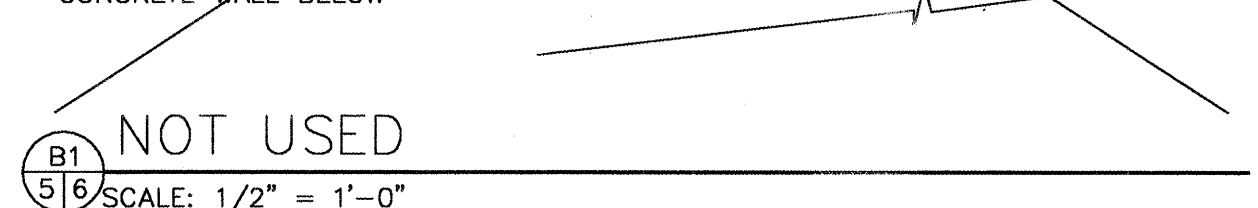
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PUBLIC WORKS DIVISION

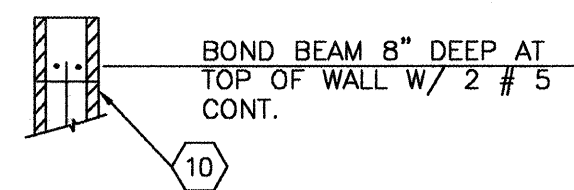
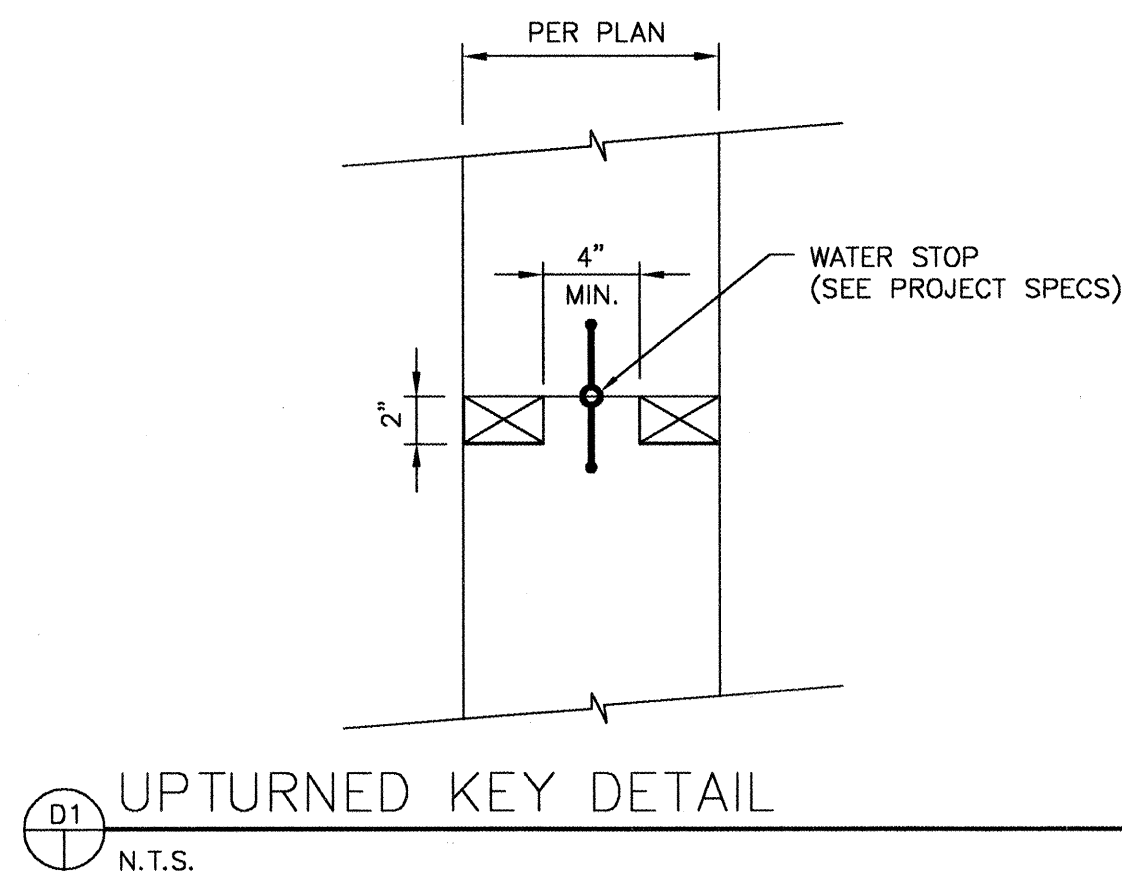
TITLE: PAJARITO AREA VACUUM STATION
STRUCTURAL FOUNDATION PLANS
BELOW AND AT GRADE LEVEL

DESIGN	REVIEW	APPROVAL	DATE	BY
Design Review Committee	City Engineer Approval			
PROJECT NO.	TS - 01 - 13	NO.	0, R-10	SHEET OF
COA - 647291				6

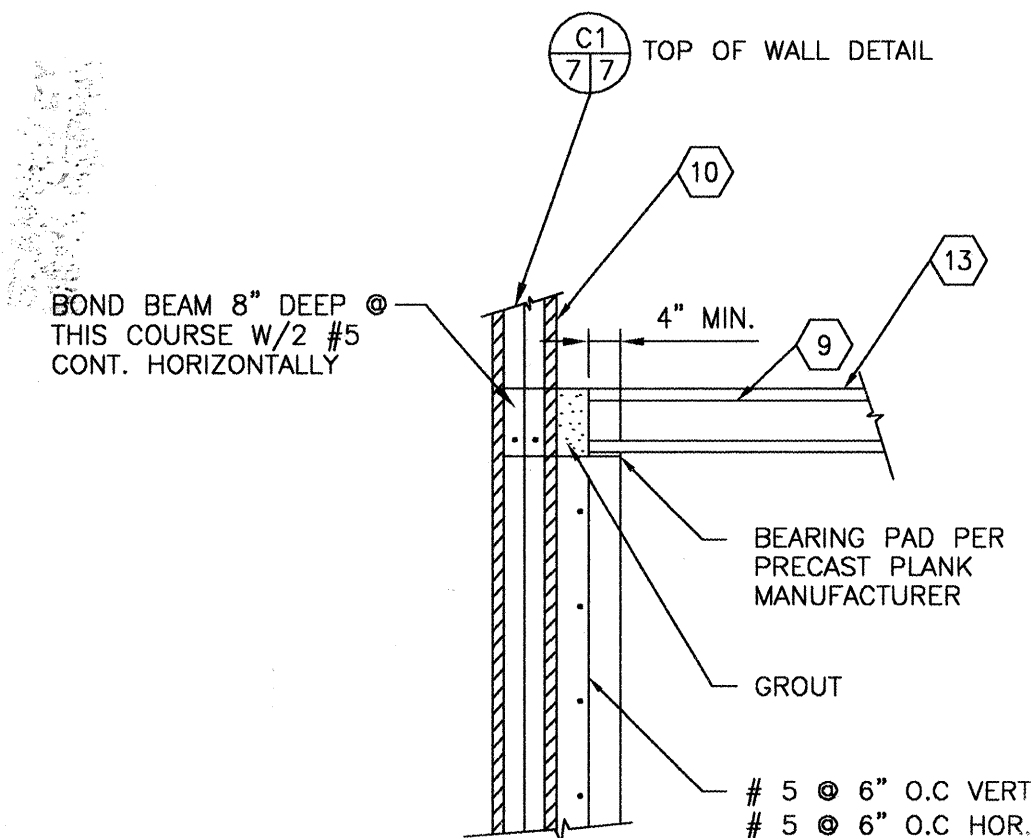


SHEET 6 OF 25

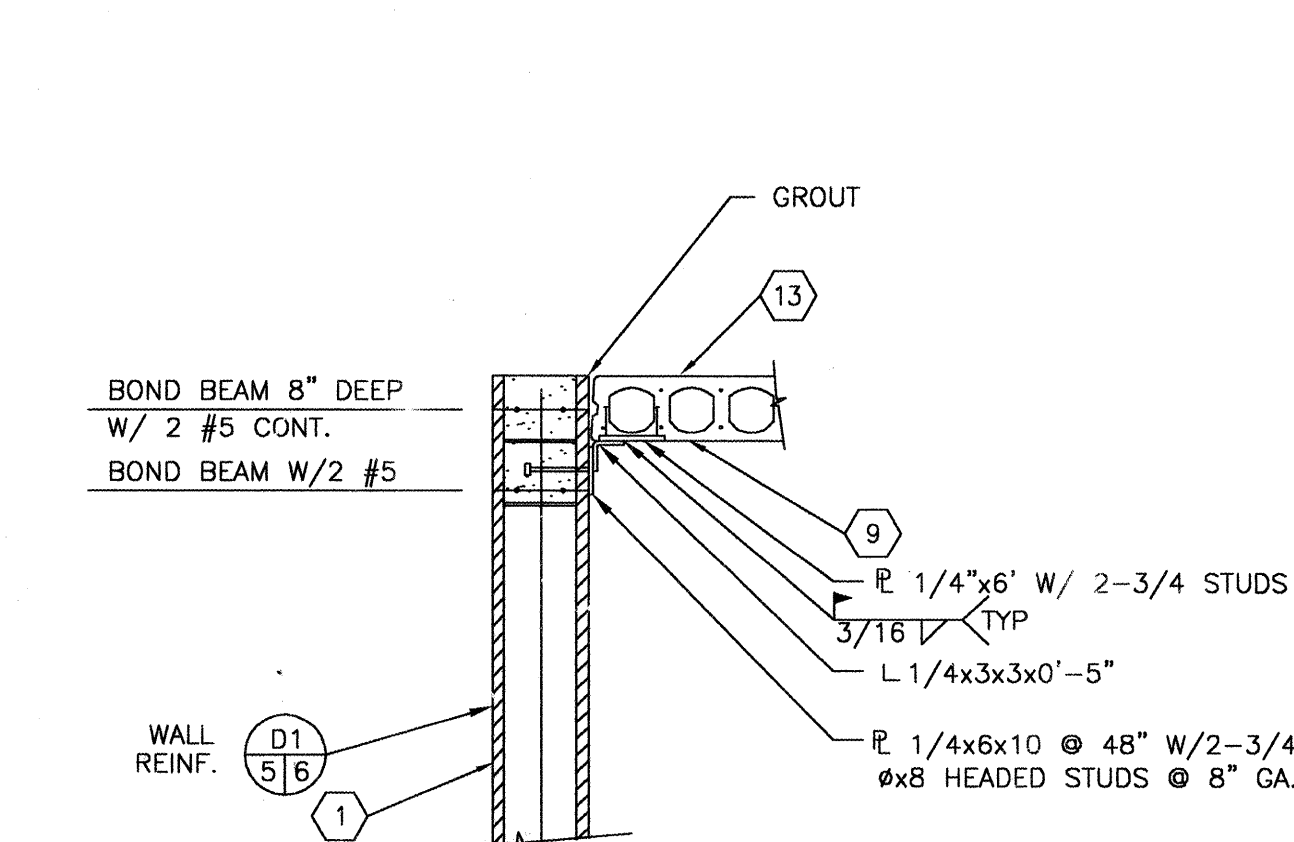
DESIGNED BY	WFZ	DATE	NOV	2001
DRAWN BY	RAG	DATE	NOV	2001
CHECKED BY	WFZ / ZHS	DATE	JAN	2002



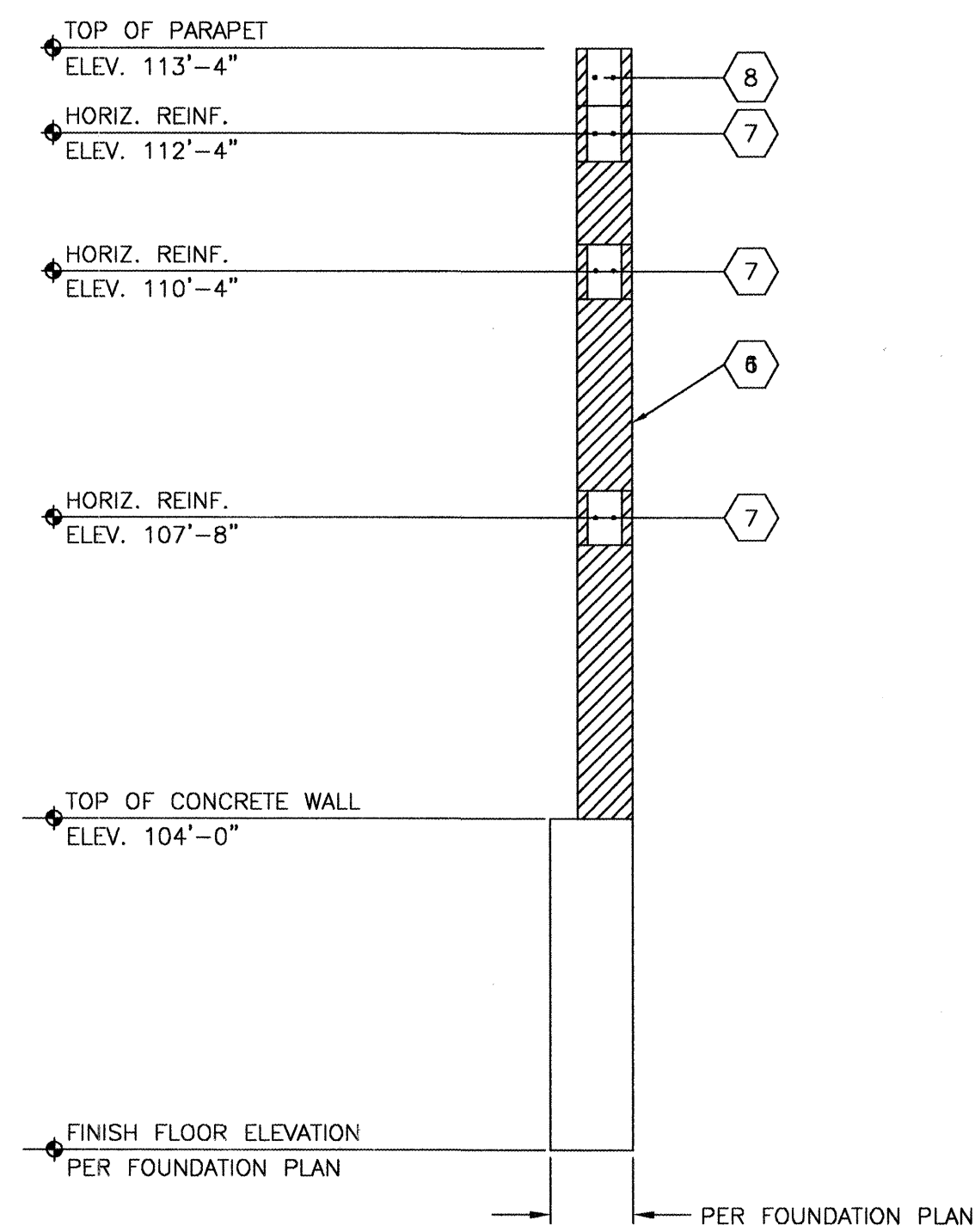
C1
7/7 TOP OF CMU WALL DETAIL
SCALE: 1/2" = 1'-0"



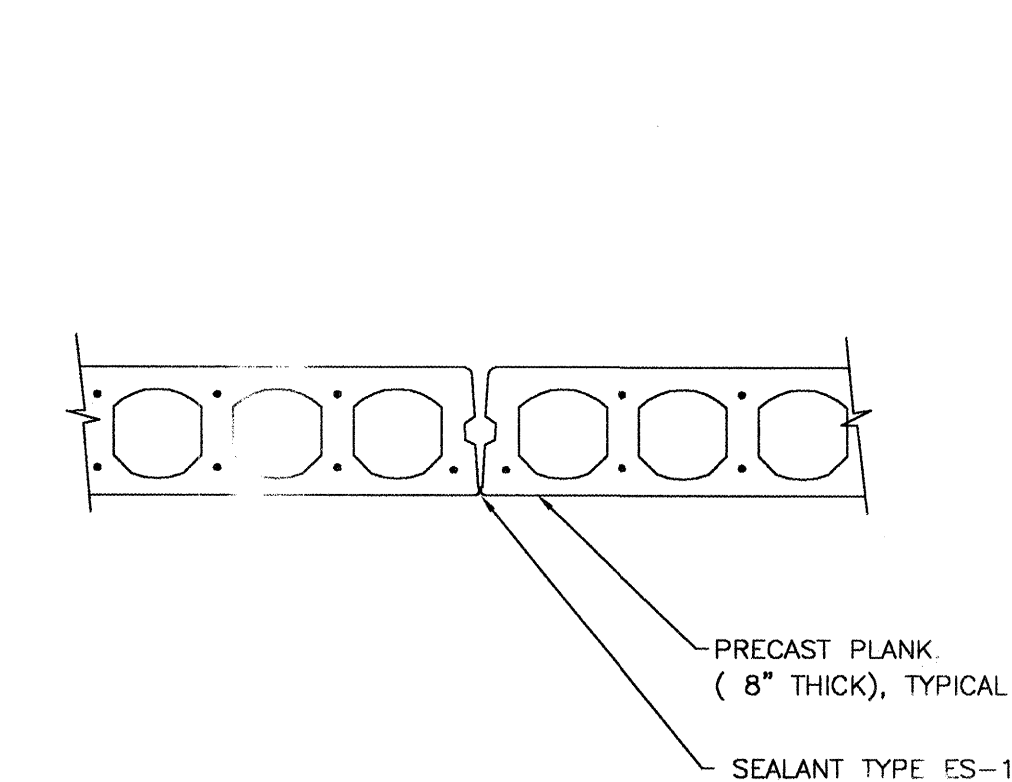
B1
9/7 PRECAST PLANK BEARING DETAIL
SCALE: 1/2" = 1'-0"



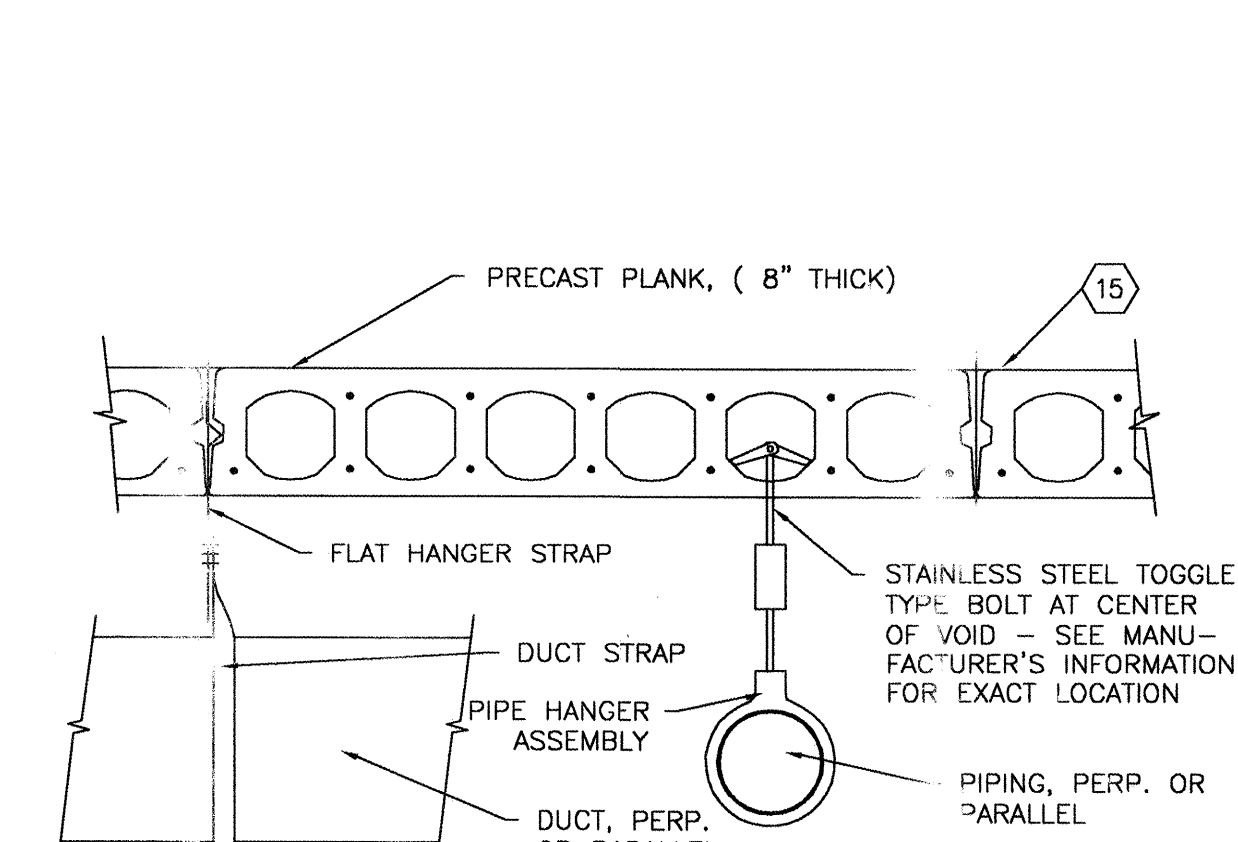
A1
9/7 PRECAST PLANK SIDE CONDITION
SCALE: 1/2" = 1'-0"



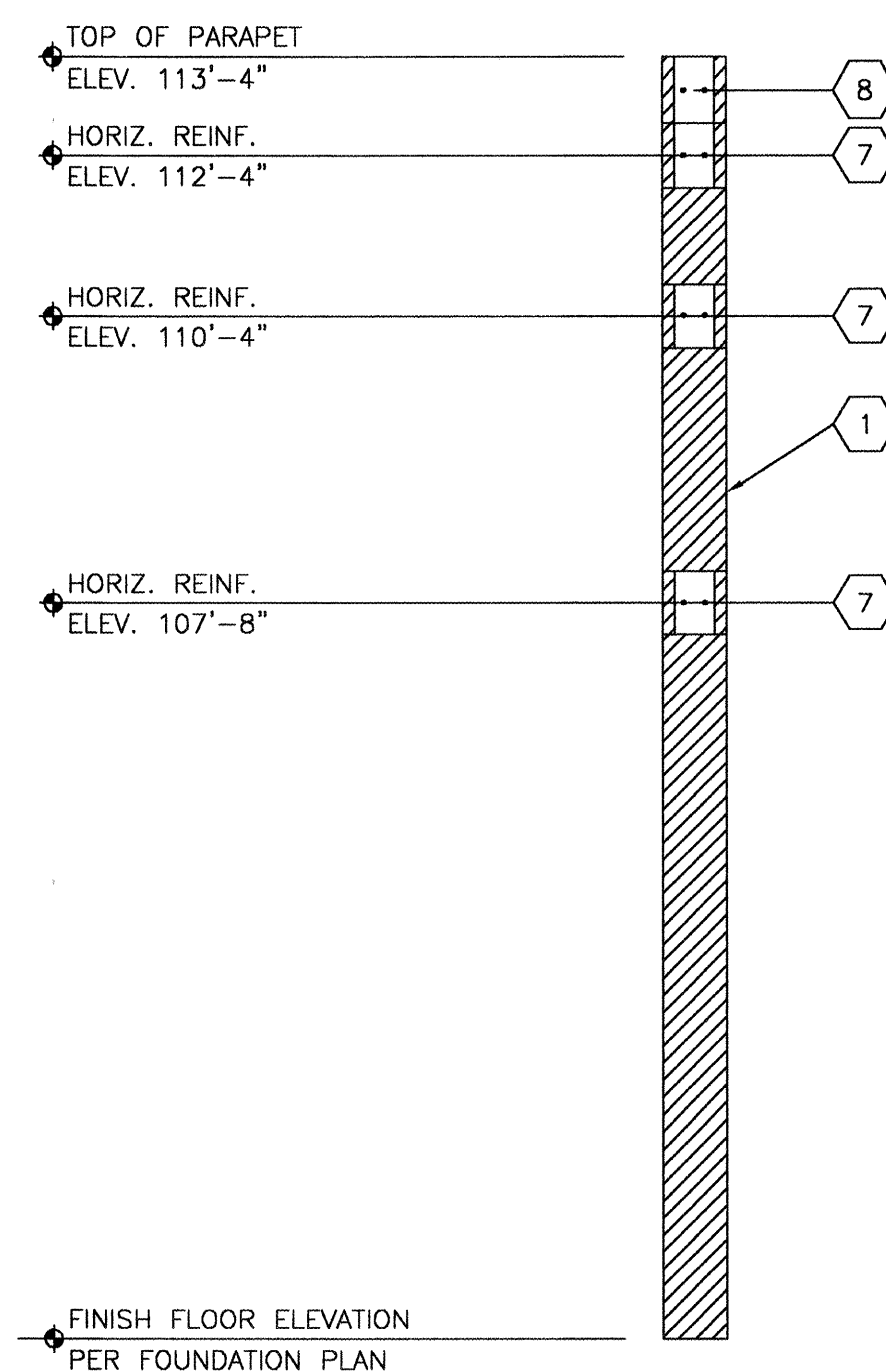
C2
5/7 HORIZONTAL BOND BEAM SECTION
SCALE: 1/2" = 1'-0"



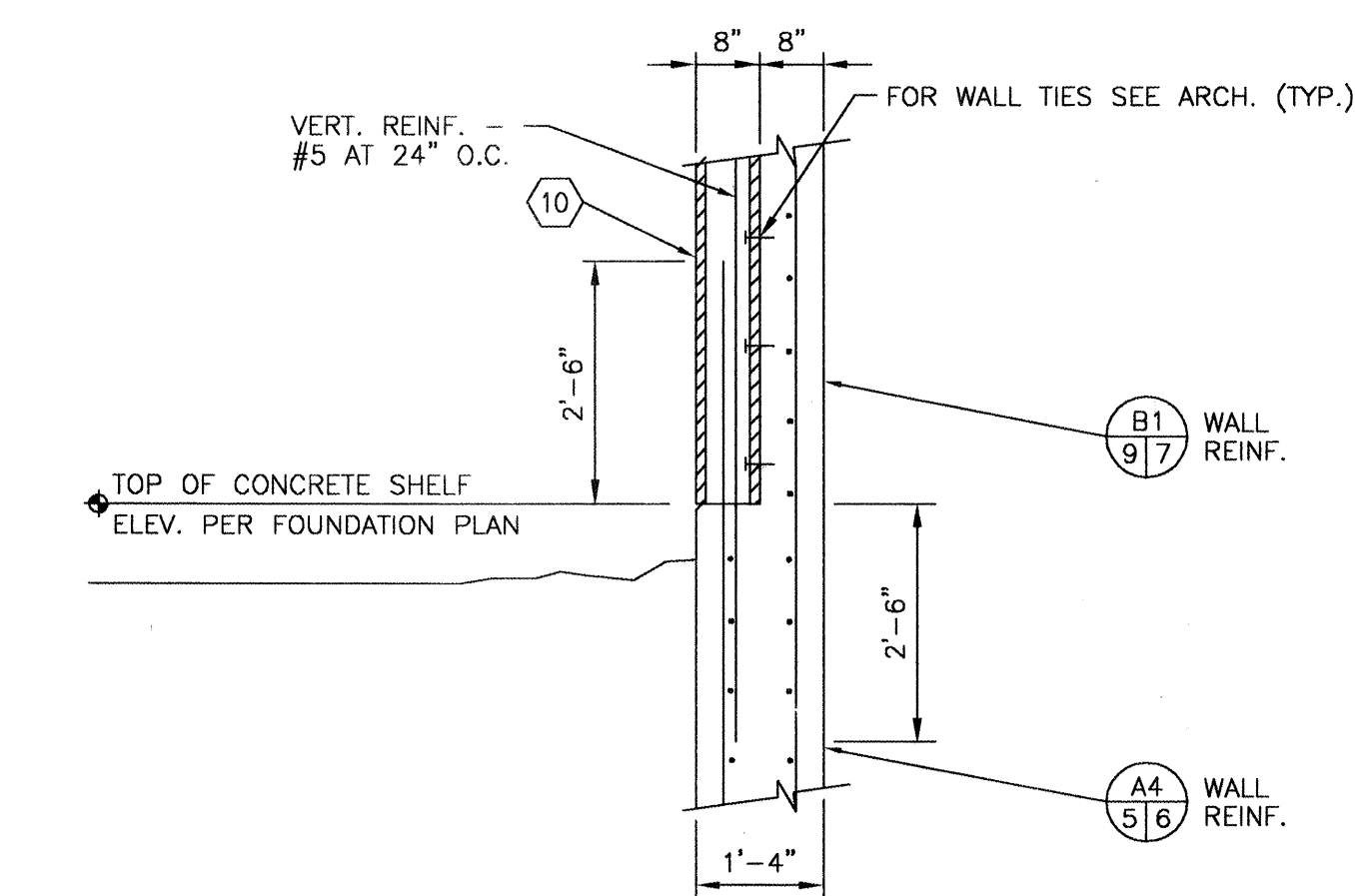
B2
9/7 PRECAST PLANK JOINT DETAIL
SCALE: 1/4" = 1'-0"



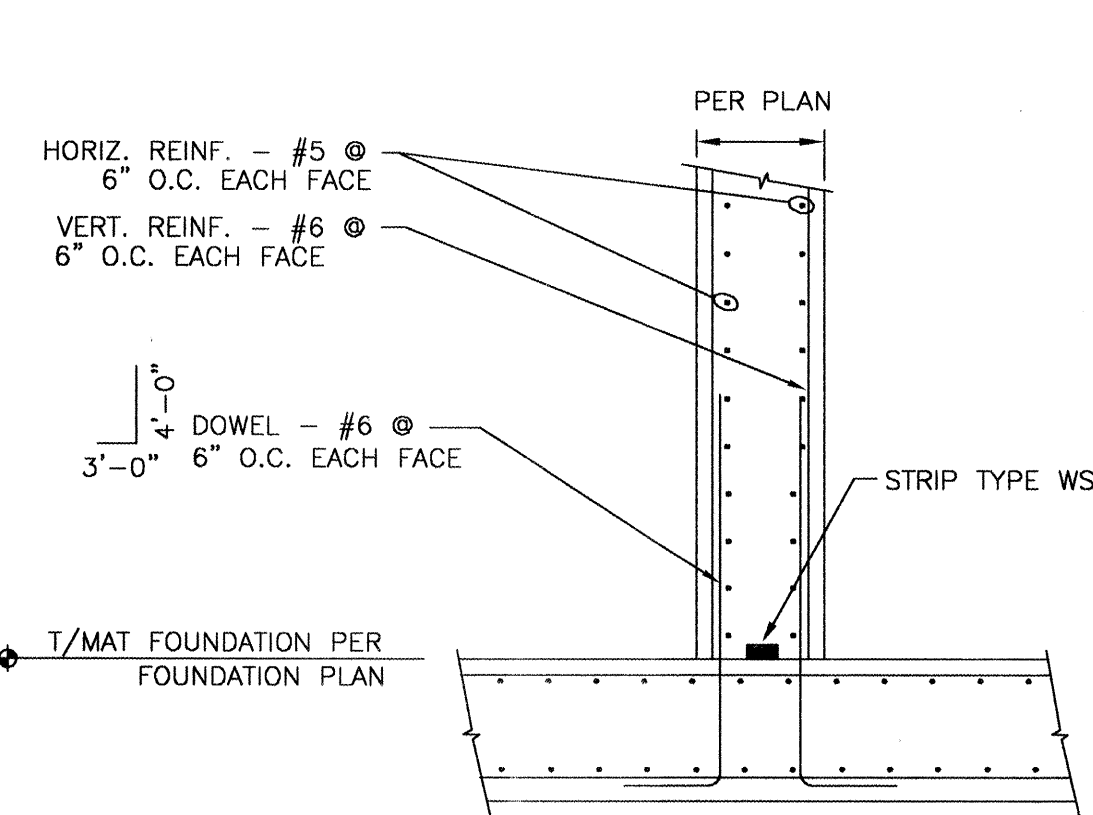
A2
9/7 PRECAST PLANK DUCT ANCHORAGE
SCALE: 1/4" = 1'-0"



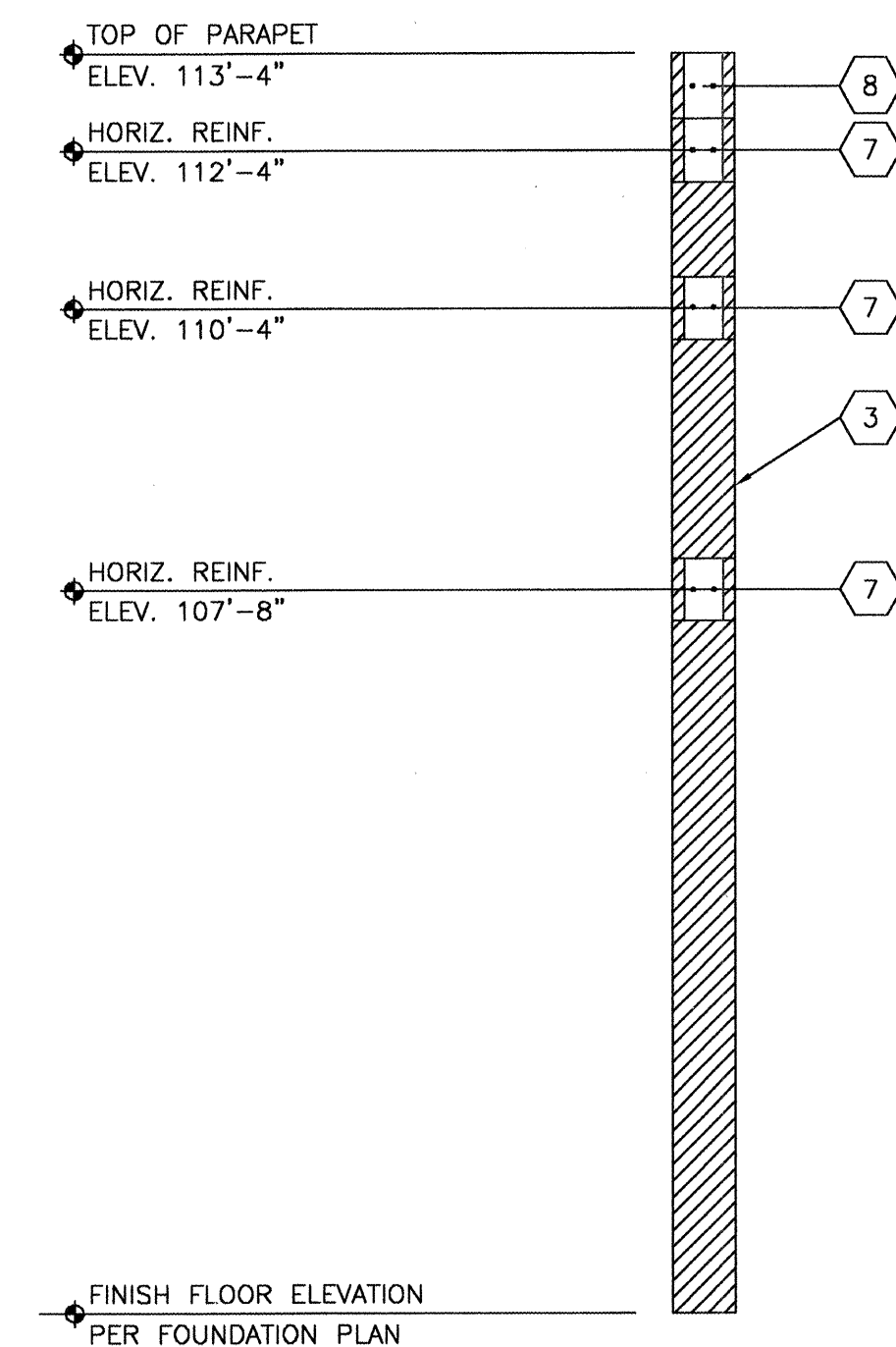
C3
5/7 HORIZONTAL BOND BEAM SECTION
SCALE: 1/2" = 1'-0"



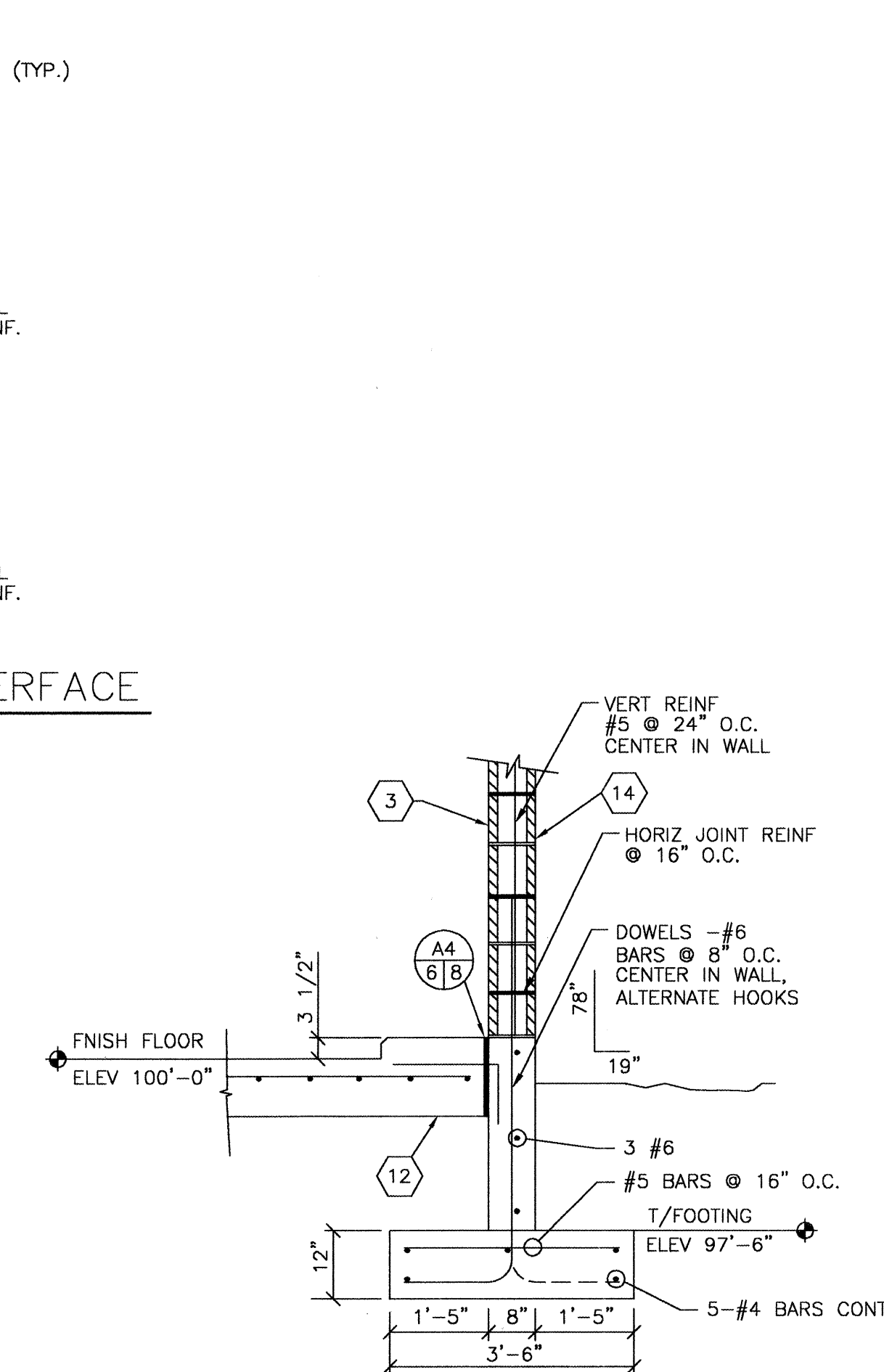
B3
5/7 SECTION AT CMU WALL/ BUILDING INTERFACE
SCALE: 1/2" = 1'-0"



A3
5/7 SECTION AT CENTER WALL
SCALE: 1/2" = 1'-0"



C4
5/7 HORIZONTAL BOND BEAM SECTION
SCALE: 1/2" = 1'-0"



A4
5/7 SECTION AT 8\"/>

GENERAL SHEET NOTES:

A) REFERENCE FINISH FLOOR ELEVATION 4919.0 = 100'-0" AND REFERENCES DATUM ELEVATION SHOWN ON SHEET 3

SHEET KEYED NOTES : (X)

- 1) CONCRETE MASONRY UNIT WALL - 12" WIDE
- 2) CONCRETE MASONRY UNIT PARAPET WALL - 8" WIDE
- 3) CONCRETE MASONRY UNIT WALL - 8" WIDE
- 4) CONCRETE FOOTING SIZE AND REINFORCING PER FOUNDATION PLAN
- 5) NOT USED
- 6) NOT USED
- 7) BOND BEAM - 8" DEEP W/ 2 #5 CONT. HORIZONTALLY
- 8) BOND BEAM - 8" DEEP W/ 2 #5 CONT. HORIZONTALLY
- 9) PRECAST PLANK - 8" THICK
- 10) CONCRETE MASONRY UNIT SITE WALL 8" WIDE W/VERT REINF - 1 #5 @ 24" O.C.
- 11) NOT USED
- 12) CONCRETE FLOOR SLAB, t = 6", #4 @ 12" O.C. E.W., CENTER IN SLAB.
- 13) SEE ARCH. PLANS FOR ROOFING, NOT SHOWN.
- 14) SEE SHEET S-6 FOR ADD'L. MASONRY DETAILS.
- 15) CONTRACTOR TO COORDINATE DESIGN AND LOCATION OF ALL MONORAIL INSERT PLATES.

0 1' 2' 3' 4' 8'
SCALE: 1/4" = 1'-0"

0 6" 1' 18" 2' 4'
SCALE: 1/2" = 1'-0"

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BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
STRUCTURAL DETAILS (2 OF 3)

Design Review Committee City Engineer Approval
APPROVED
CITY ENGINEER
Last Design Update

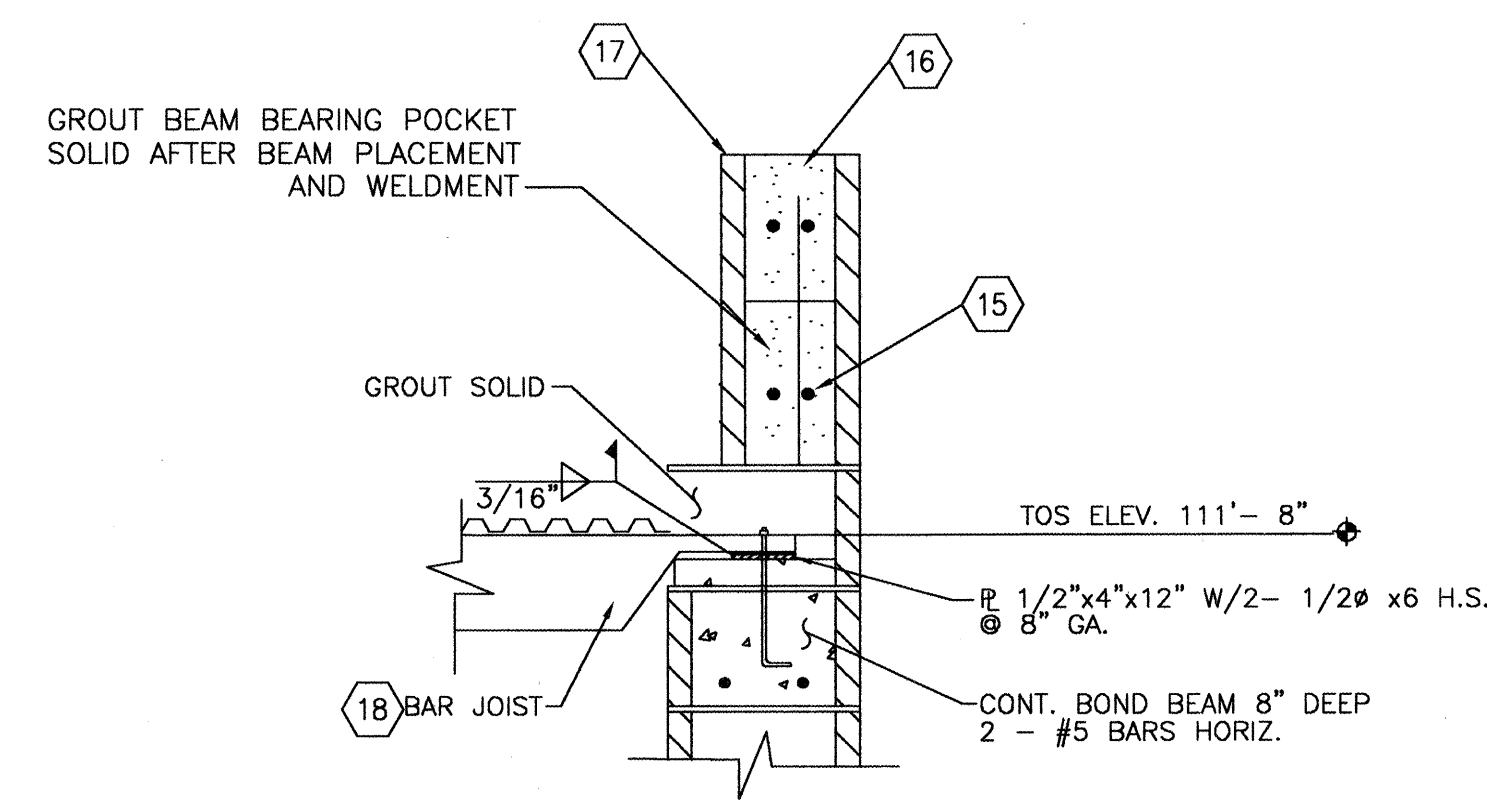
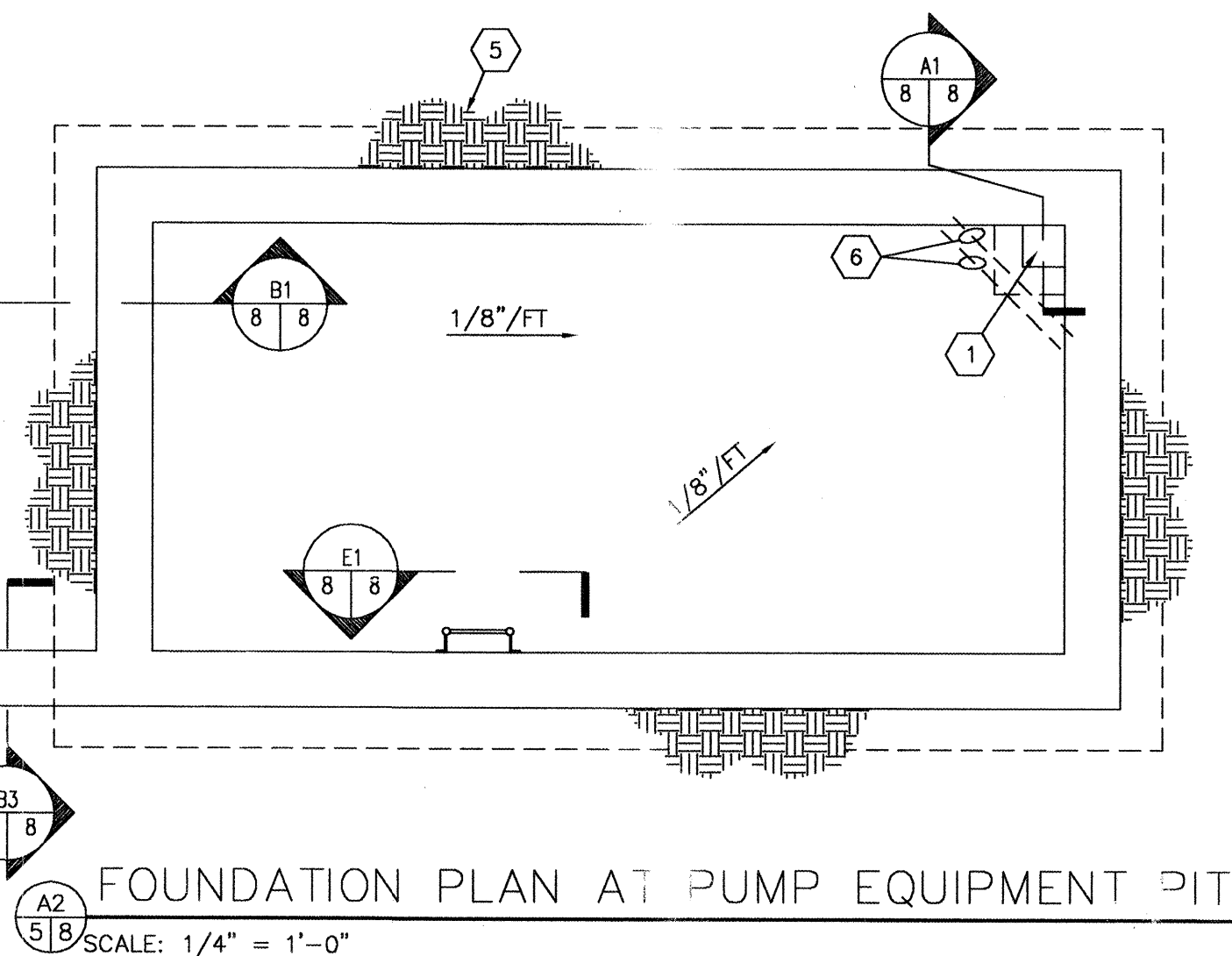
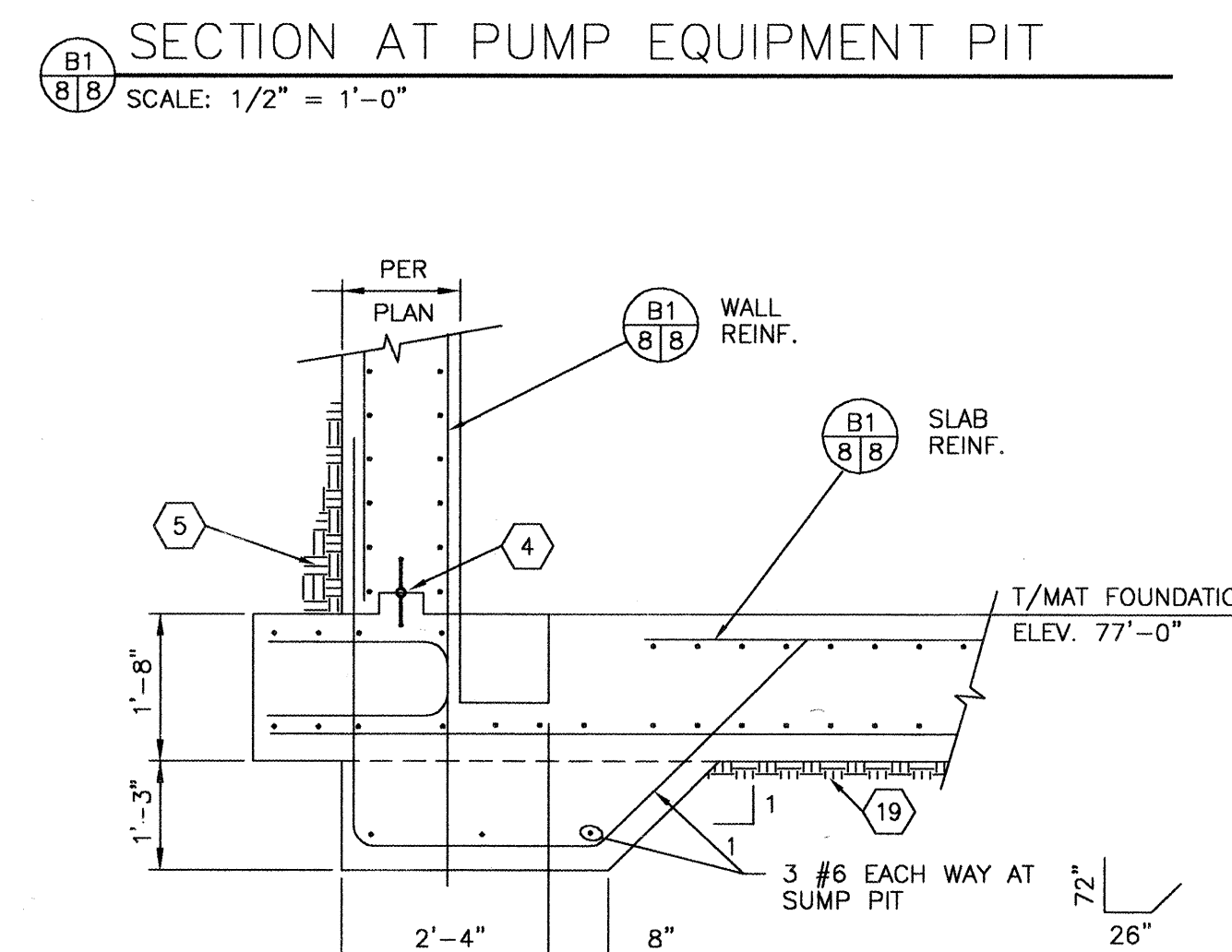
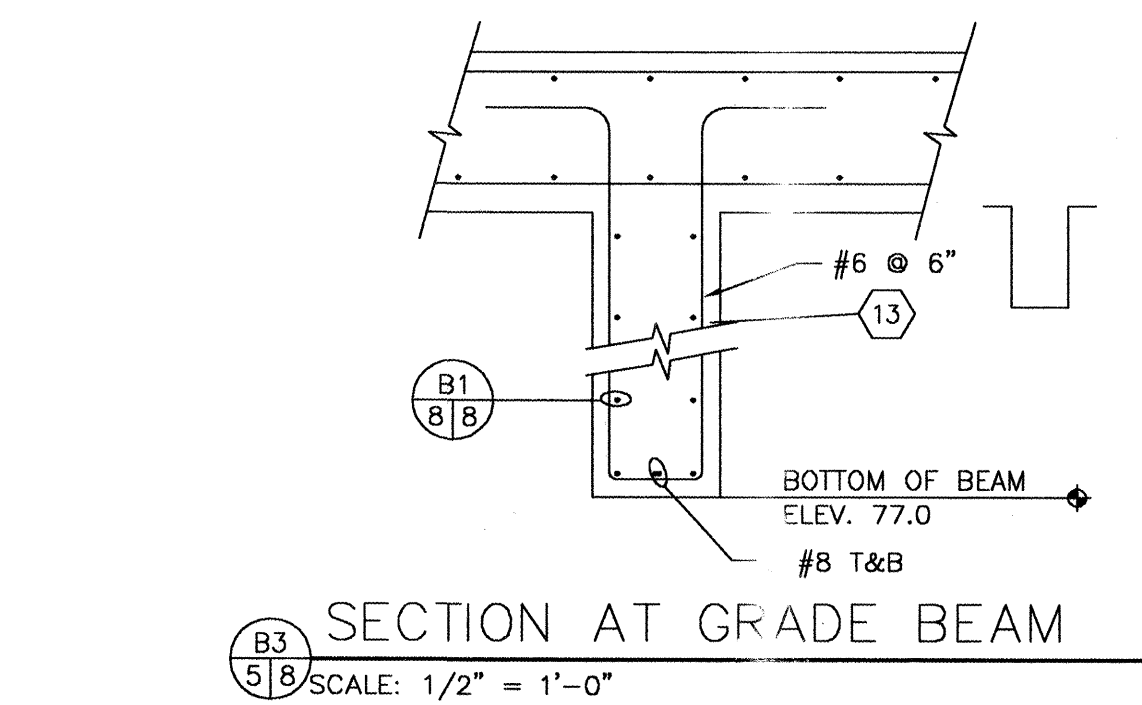
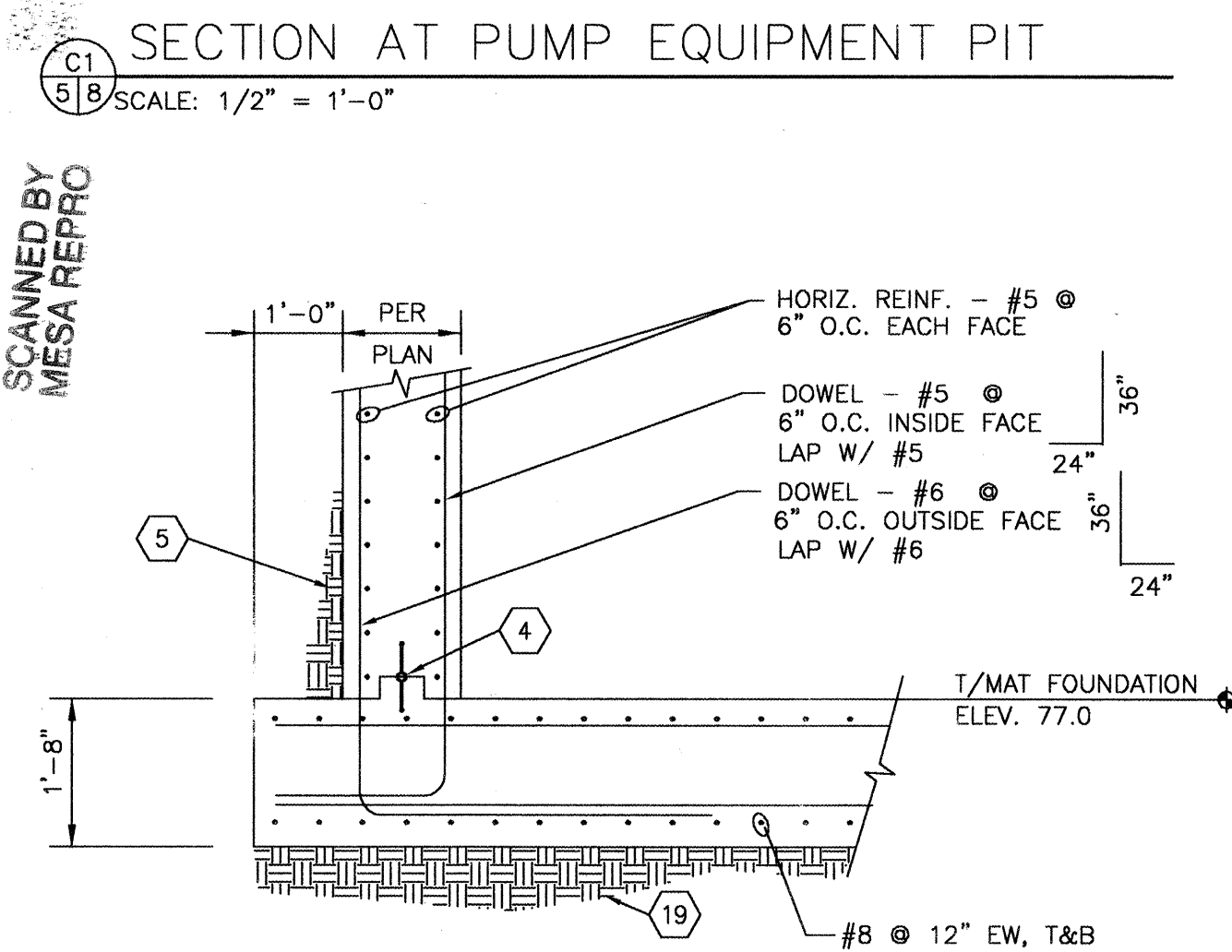
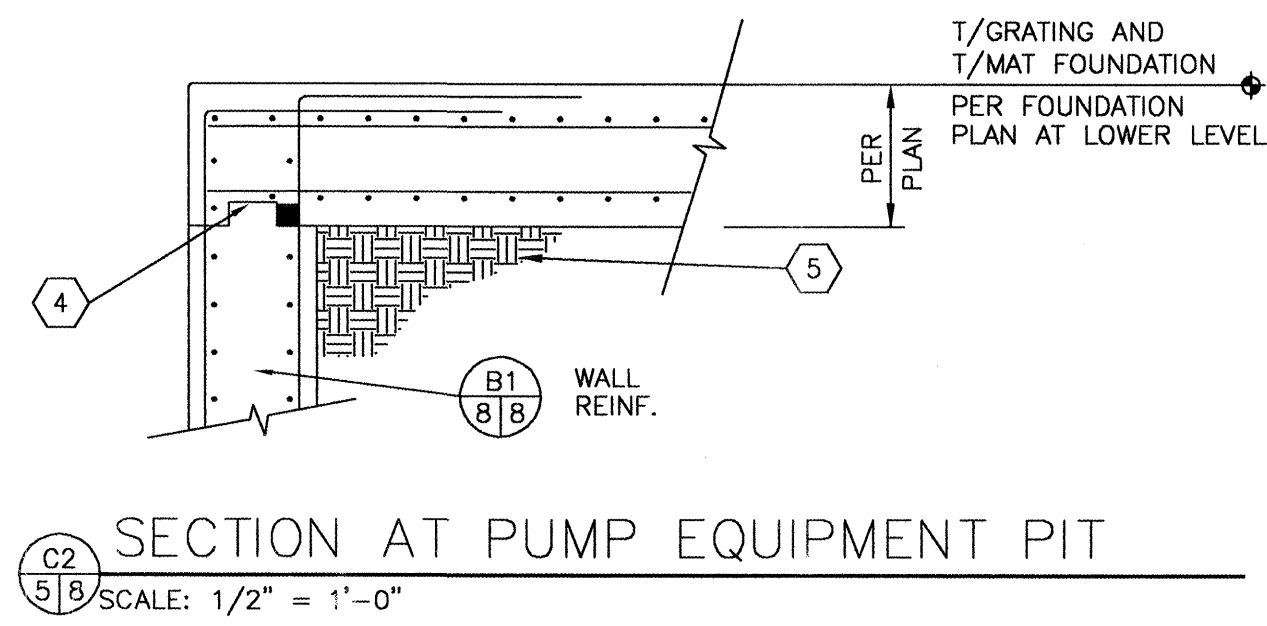
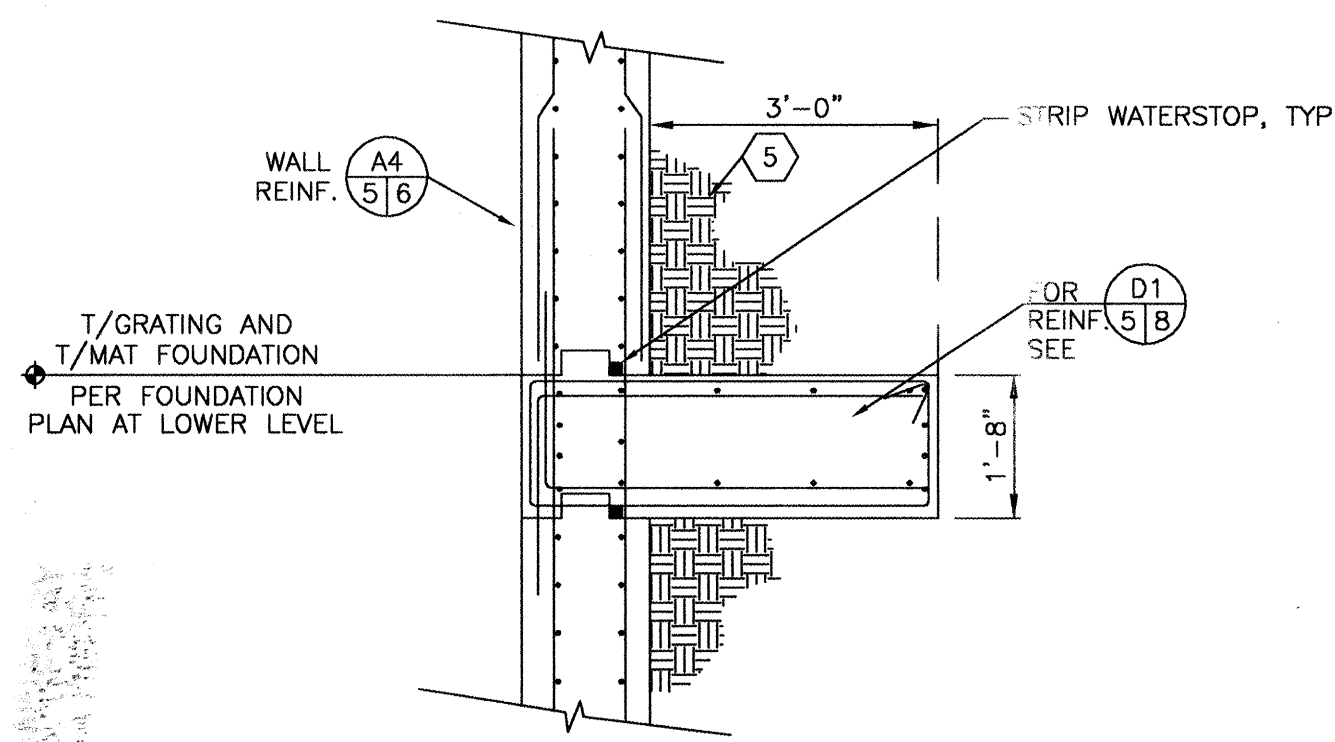
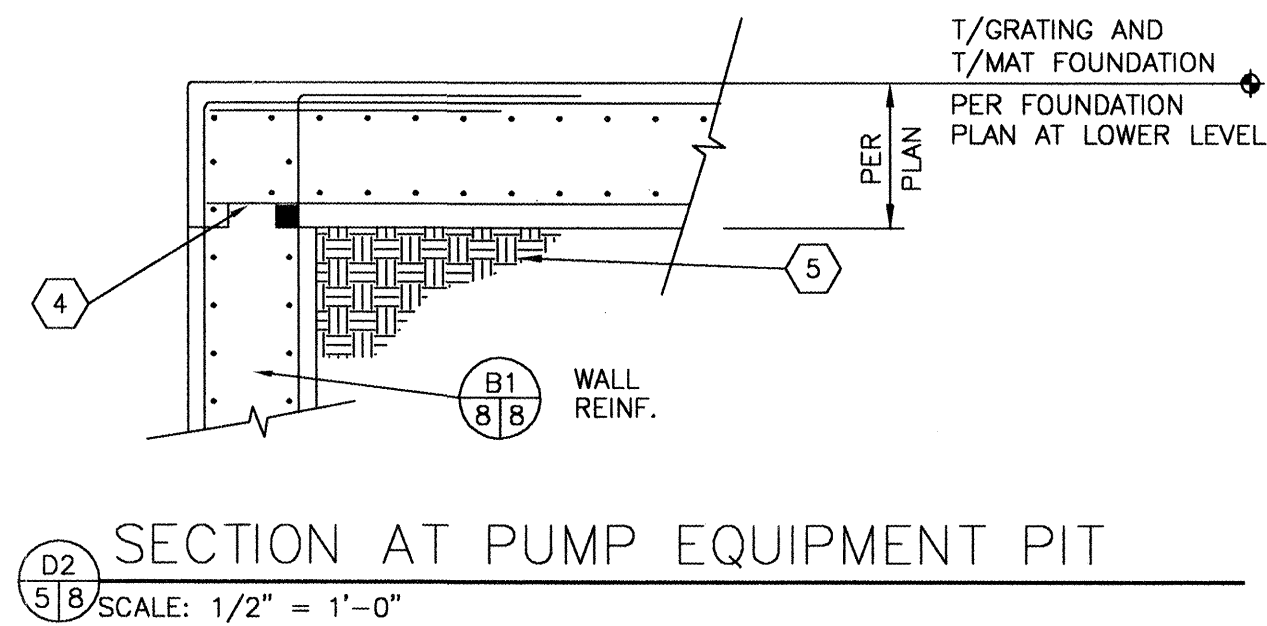
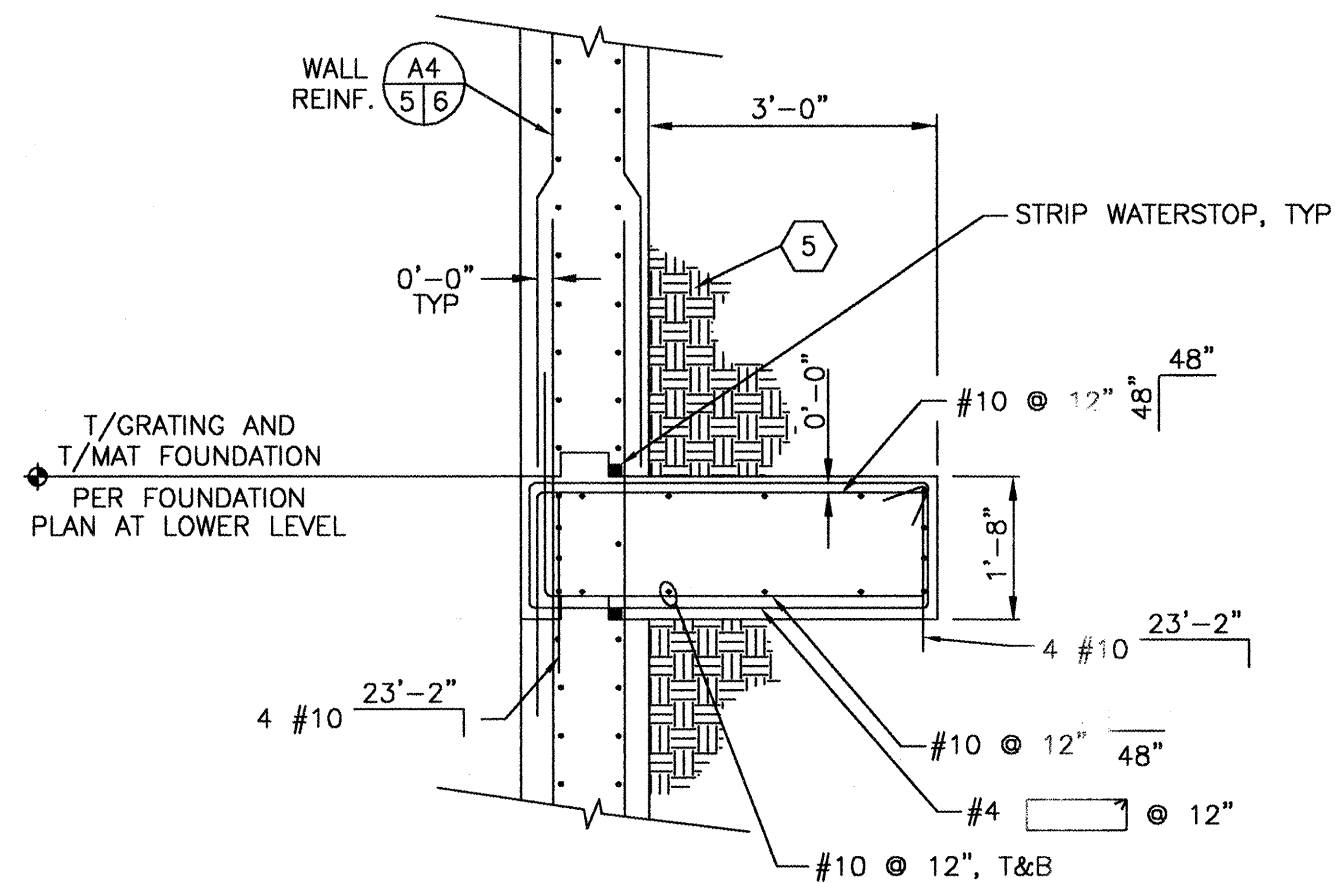
PROJECT TS-01-13 MAP NO. Q-10, R-10
NO. COA - 647291 SHEET 3-03 OF 6

SHEET 7 OF 25

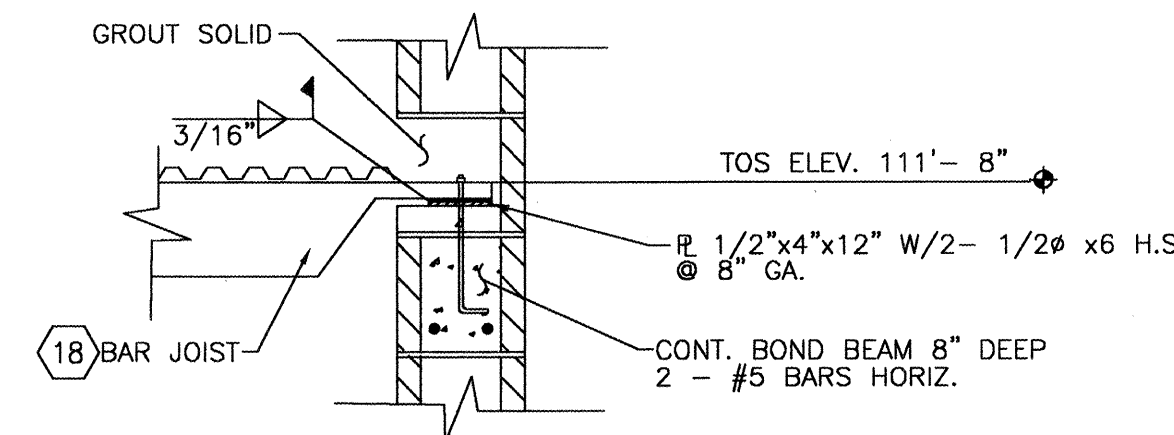
SCANNED BY
MESA REPRO

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
 4.9.02		FIELD NOTES						
		NO.	BY	DATE				
						CONTRACTOR	DATE	
						WORK STARTED BY	DATE	
						INSPECTOR'S	DATE	
						ACCEPTANCE BY	DATE	
						VERIFICATION BY	DATE	
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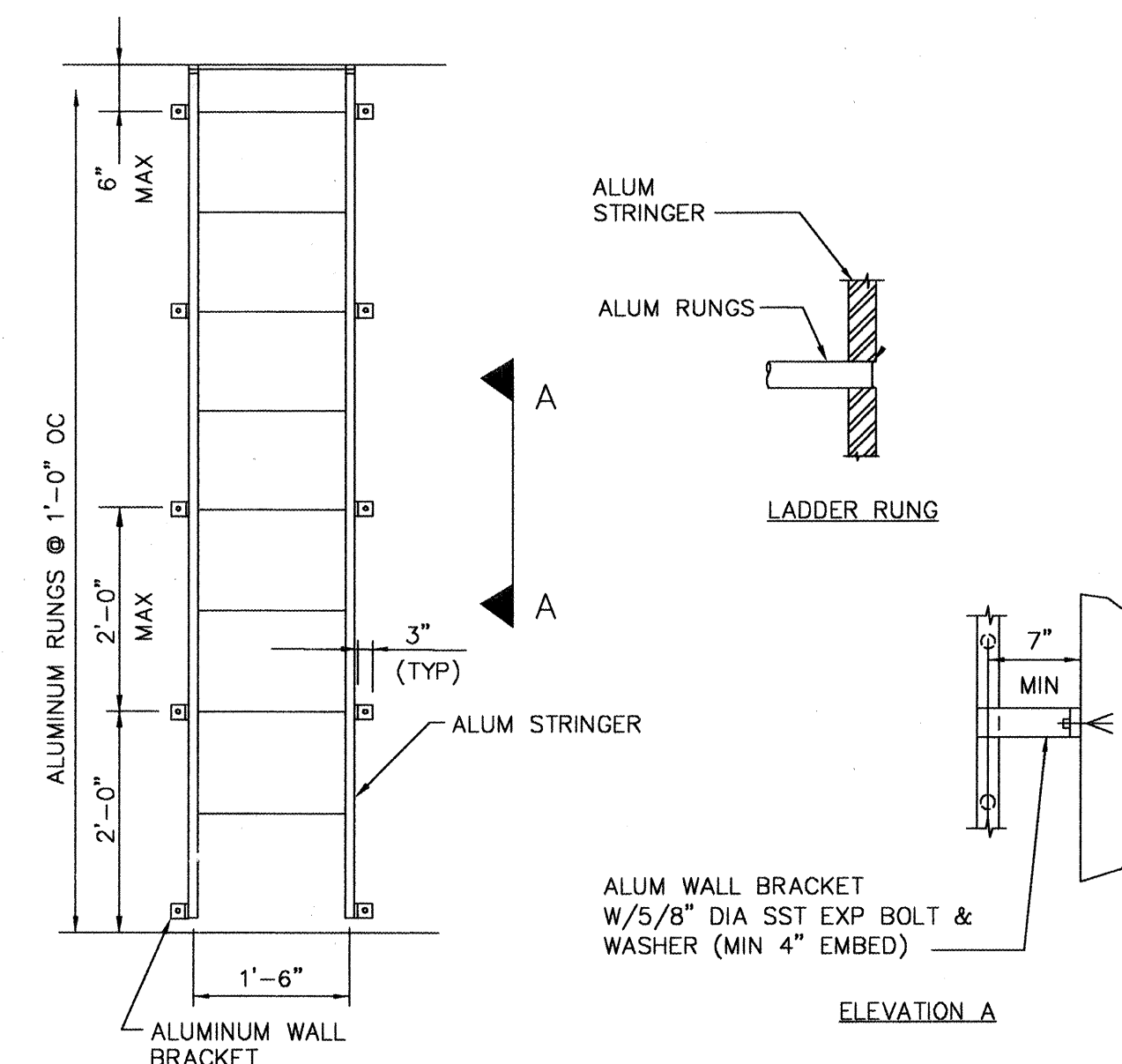




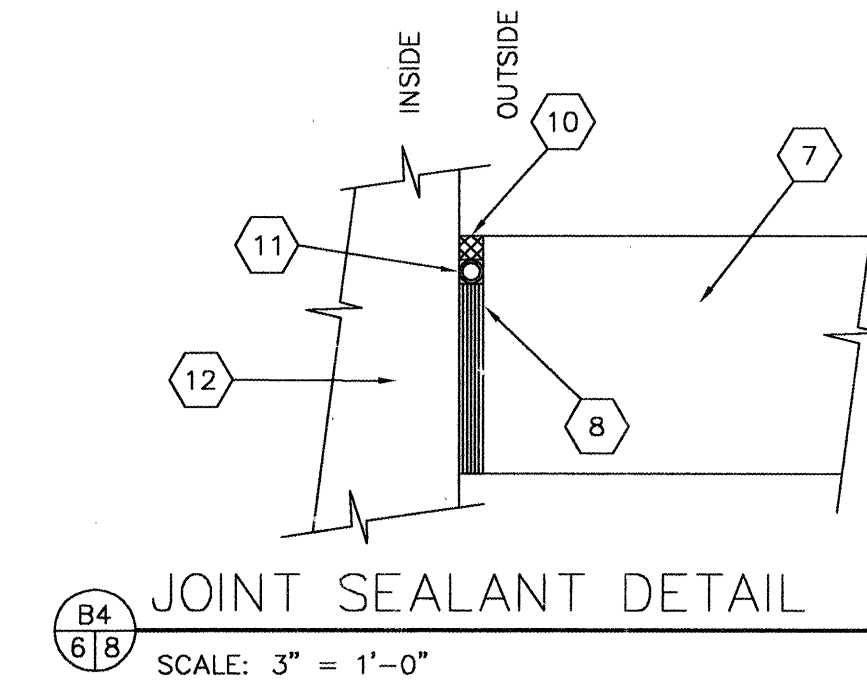
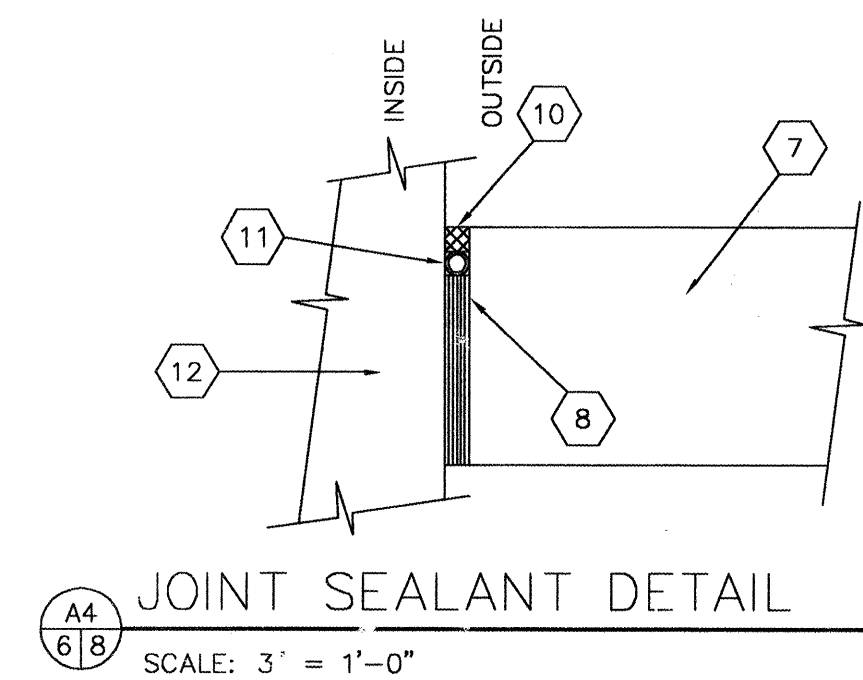
SECTION AT JOIST BEARING @ 12" CMU
D3
SCALE: 1" = 1'-0"



SECTION AT JOIST BEARING @ 8" CMU
D4
SCALE: 1" = 1'-0"



LADDER SECTION AT PUMP PIT
E1
N.T.S.



GENERAL SHEET NOTES:

- REFERENCE FINISH FLOOR ELEVATION 4919.0 = 100'-0" AND REFERENCES DATUM ELEVATION SHOWN ON SHEET 3
- FOR BOLLARDS AND HANDRAIL SIZES AND LOCATIONS, SEE ARCHITECTURAL DRAWINGS.
- BUILDING LOCATION SHALL BE PER SITE PLAN, SEE SHEET 3
- FOR PIPE SIZES AND LOCATIONS, SEE EQUIPMENT PLAN, SECTION AND DETAIL DRAWING.
- FOR MECHANICAL WALL PENETRATION LOCATIONS AND SIZES, SEE AND COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND SEE DETAIL, SHEET G-2.
- EQUIPMENT DIMENSIONS ARE SUBJECT TO CHANGE BY MANUFACTURER. VERIFY AND CONFIRM WITH PROJECT MANAGER PRIOR TO INITIATION OF CONSTRUCTION.
- FOR SHEET WATERPROOFING BELOW GRADE, SEE ARCHITECTURAL DRAWINGS

SHEET KEYED NOTES : (X)

- SUMP PIT - 12" x 12" x 12" DEEP, CONSTRUCTION PER SECTION
- CAST-IN-PLACE CONCRETE MAT FOUNDATION PER FOUNDATION PLAN, 1'-8" THICK
- CAST-IN-PLACE CONCRETE MAT FOUNDATION SHAPE AS SHOWN x 1'-6" THICK. SEE DETAILS.
- WATERSTOP, KEYED JOINT. (HYDRA-PLUG)
- STRUCTURAL BACK FILL
- PROVIDE (2) #5 x 4'-0" DIAG. CORNER BARS AT SUMP PIT, 2" AND 4" FROM CORNER TOP FACE.
- CONCRETE SLAB PER FOUNDATION PLAN
- JOINT FILLER
- NOT USED
- SEALANT TYPE ES-2
- JOINT BACKER ROD
- CONCRETE MASONRY UNIT WALL OR CONCRETE WALL PER FOUNDATION PLAN
- CAST GRADE BEAM AS AN INTEGRAL PART OF WALL SHOWN ON SECTION C2/5/8. GB TO END UNDER WALL SHOWN ON SECTION A3/5/7
- 4" WIDE BEARING PLATE W/ 2- 3/4" x 10" ANCHOR BOLTS AT 8" MIN. GAGE. LENGTH OF BEARING PLATE = JOIST BEARING WIDTH PLUS 6" MIN., t = 1/2". CENTER JOIST BEARING IN WALL.
- LINTEL LB, SEE S-6.
- BOND BEAM - 8" DEEP W/ 2-#5 CONT. HORIZONTALLY.
- CONCRETE MASONRY UNIT PARAPET - 8" WIDE
- AT CONTRACTOR'S OPTION STEEL JOIST MAY BE REPLACED WITH W6x20, FOR SUPPORTS USE DETAIL 02/9/9 (SIMILAR)
- PROVIDE MINIMUM 3" MUDSLAB UNDER ENTIRE SLAB.

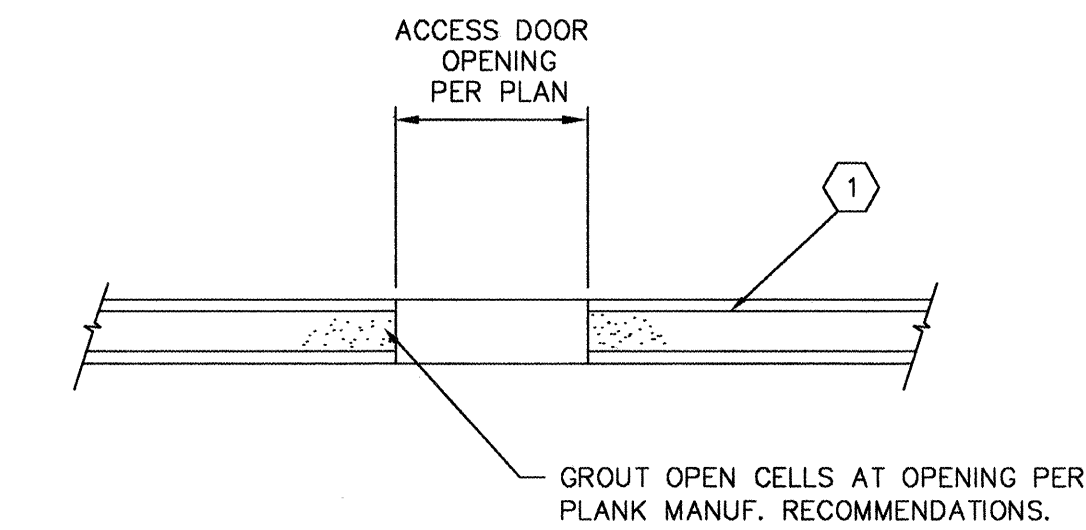
HDR

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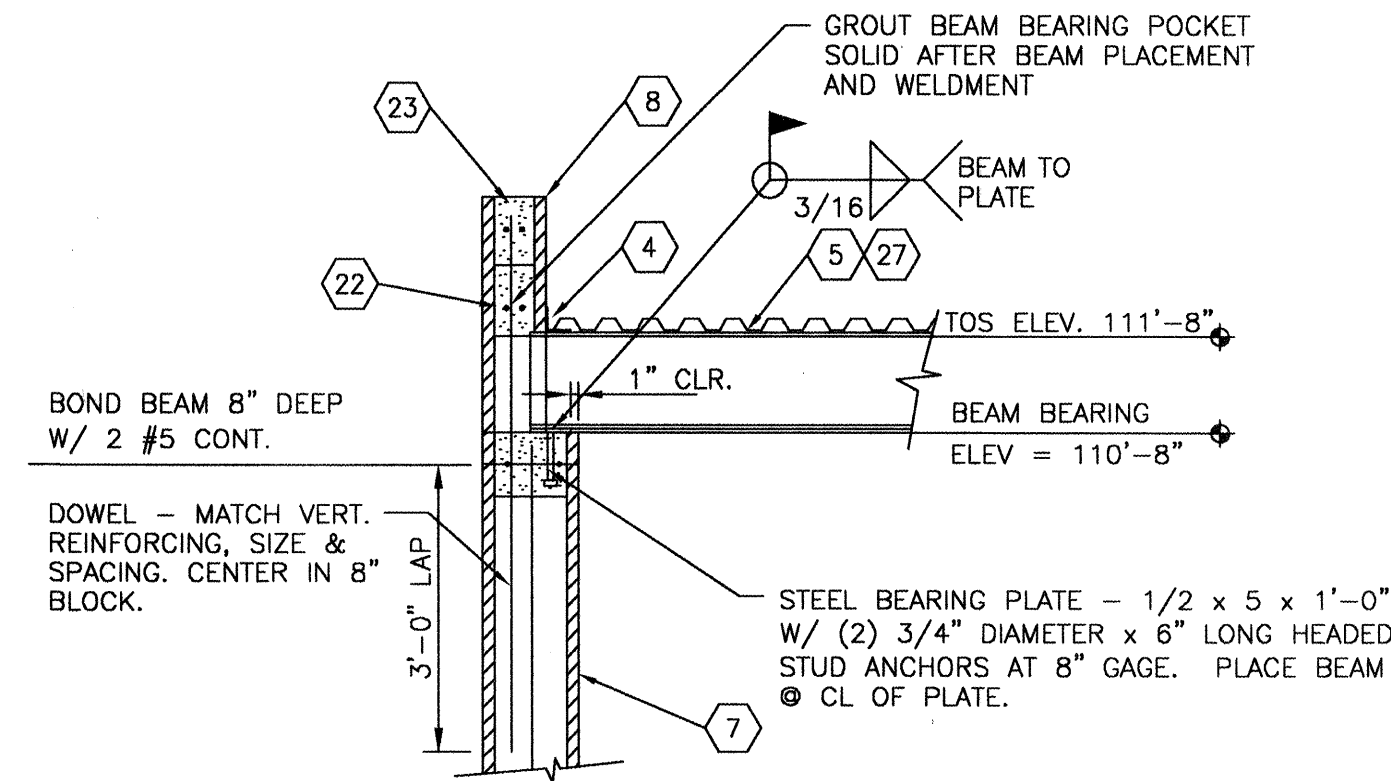
BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
STRUCTURAL DETAILS (3 OF 3)

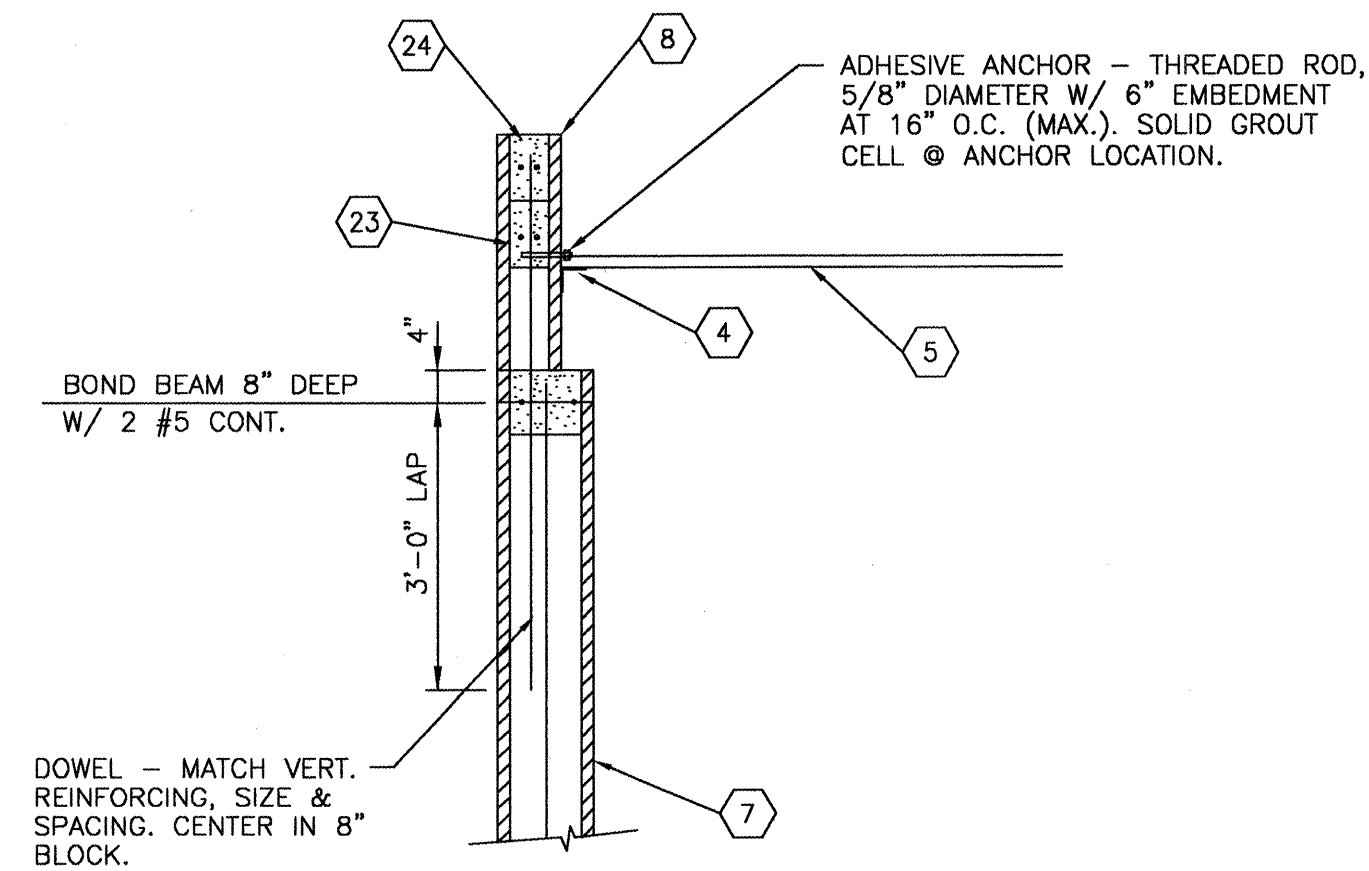
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DATE	DATE	DATE	DATE
DESIGNED BY	WAZ	DATE	NOV 2001
DRAWN BY	RAC	DATE	NOV 2001
CHECKED BY	WAZ / ZHS	DATE	JAN 2002
PROJECT NO.	TS - 01 - 13	MAP NO.	Q-10, R-10
COA - 647291		SHEET	OF 6



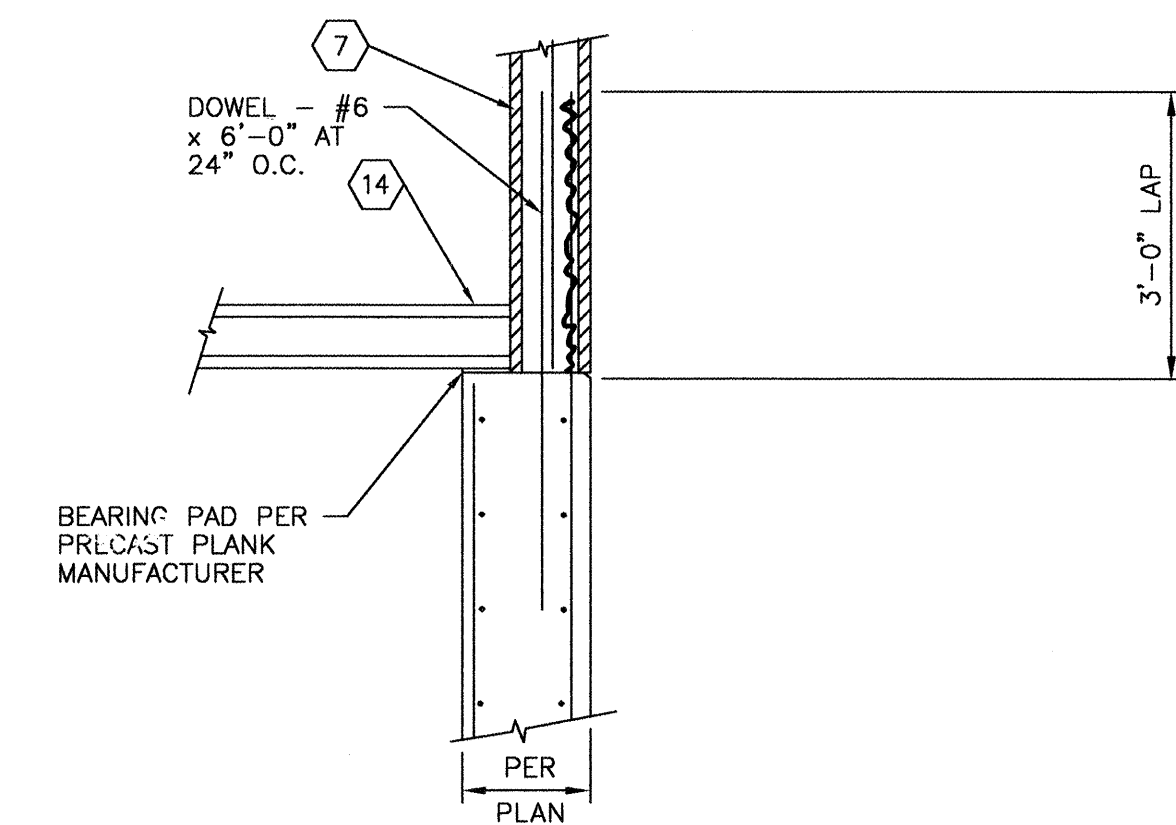
D1
9/9 SCALE: 1/2" = 1'-0"



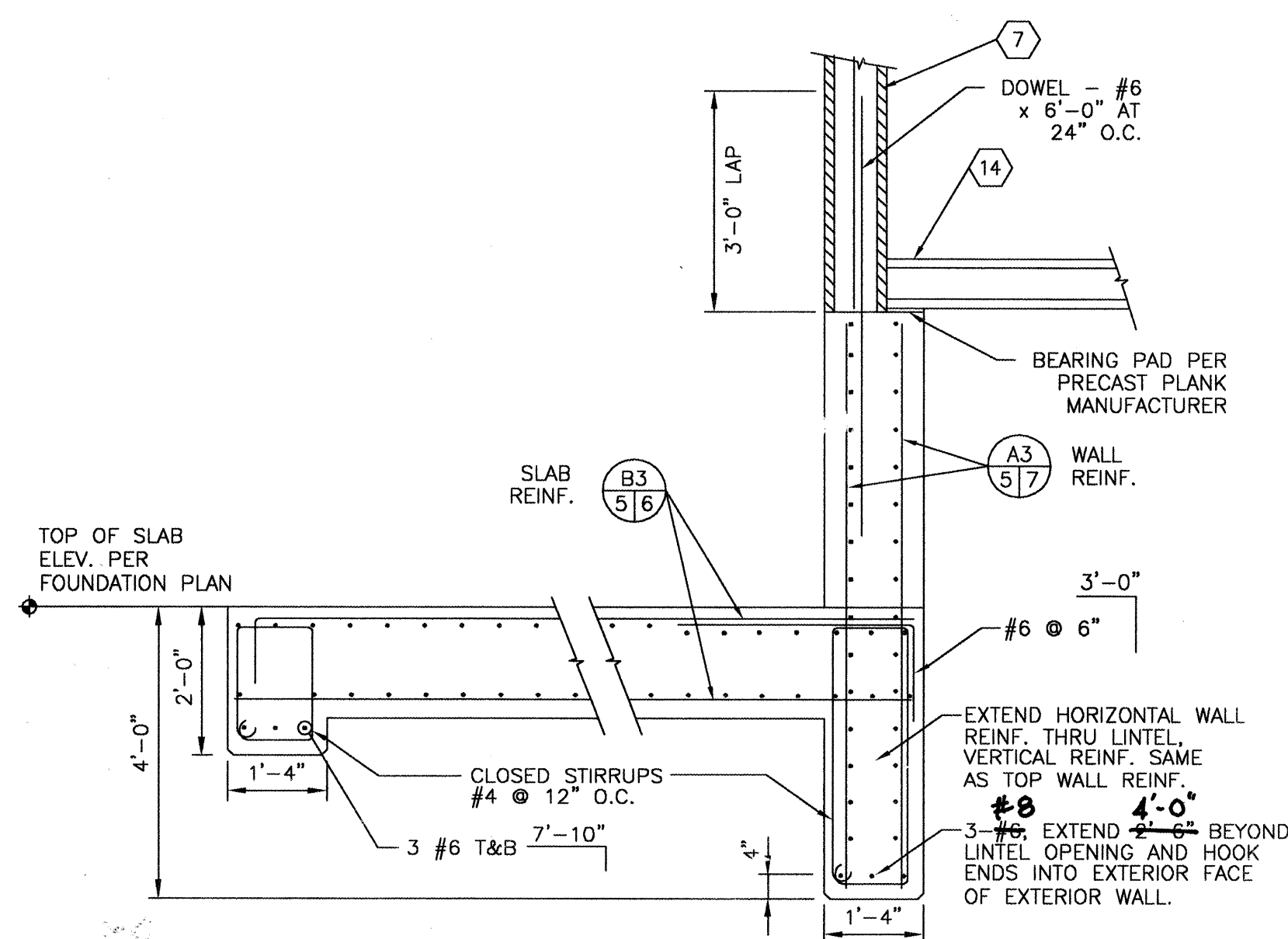
D2
9/9 SCALE: 1/2" = 1'-0"



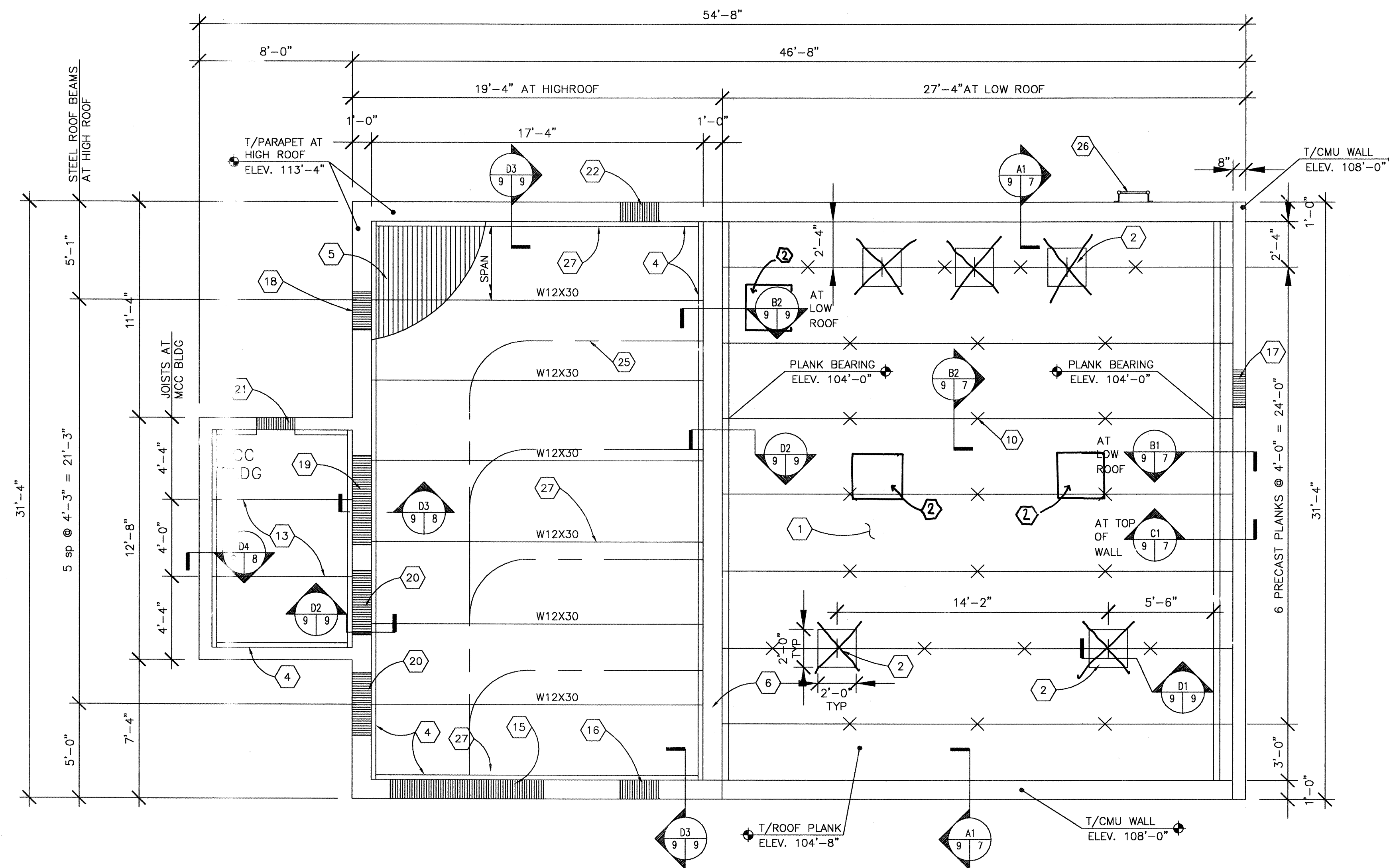
D3
9/9 SCALE: 1/2" = 1'-0"



B2
9/9 SCALE: 1/2" = 1'-0"



A2
5/9 SCALE: 1/2" = 1'-0"
N.T.S.



ROOF FRAMING PLAN AT LOW AND HIGH ROOFS
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES:

- A) REFERENCE FINISH FLOOR ELEVATION 4919.0 = 100'-0" AND REFERENCES DATUM ELEVATION SHOWN ON SHEET 3
- B) ANCHORAGE OF DUCT WORK AND PIPING TO PRECAST PLANKS SHALL BE PER DETAIL A2 ON SHEET 7
- C) SEE ARCHITECTURAL ROOF PLAN FOR SCUPPER LOCATIONS AND DETAILS AT SCUPPERS
- D) ALL PRECAST H.C. CONNECTOR PANEL TO PANEL, PANEL TO WALL DUE TO DIAPHRAGM ACTION SHALL BE DESIGN BY HC PRECASTER.

SHEET KEYED NOTES : (X)

- 1) PRECAST PLANK - 8" THICK
- 2) CUTOUT TO BE CENTERED ON PLANK EDGE AS SHOWN. COORDINATE LOCATION AND SIZE WITH EQUIPMENT MANUFACTURER. SEE NOTE 14 ON SHEET 5
- 3) NOT USED.
- 4) LEDGER ANGLE - L 3 x 3 x 5/16 x CONT.
- 5) 1 1/2"x20 GA ROOF DECK - SPAN AS INDICATED ON PLAN
- 6) NOT USED
- 7) CONCRETE MASONRY UNIT WALL - 12" WIDE
- 8) CONCRETE MASONRY UNIT PARAPET - 8" WIDE
- 9) NOT USED
- 10) H.C. PLANK CONNECTORS BY PRECASTER, MINIMUM 3 CONNECTORS PER PANEL.
- 11) NOT USED.
- 12) NOT USED.
- 13) VUCRAFT 8K1 STEEL JOISTS. BEARING ELEV. 110'-10"
- 14) SEE ARCH. FOR ROOFING, NOT SHOWN.
- 15) LINTEL L1, SEE S-6.
- 16) LINTEL L2, SEE S-6.
- 17) LINTEL L3, SEE S-6.
- 18) LINTEL L4, SEE S-6.
- 19) LINTEL L5, SEE S-6.
- 20) LINTEL L6, SEE S-6.
- 21) LINTEL L7, SEE S-6.
- 22) LINTEL L8, SEE S-6.
- 23) BOND BEAM - 8" DEEP W/ 2-#5 CONT. HORIZONTALLY.
- 24) BOND BEAM - 8" DEEP W/ 2-#5 CONT. HORIZONTALLY.
- 25) GENERAL CONTRACTOR TO COORDINATE THE DESIGN OF MONORAIL BEAM AND BRACKETS WITH HOIST AND GLIDE SWITCH SUPPLIER(S).
- 26) FIXED ACCESS LADDER. SEE ARCHITECTURAL FOR LOCATION
- 27) DECK SHALL BE WELDED TO ALL SUPPORTING MEMBERS WITH 5/8" PUDDLE WELD @ EACH FLUTE. USE 5/8" @ 12" PUDDLE WELD AT PERIMETER SUPPORTS.

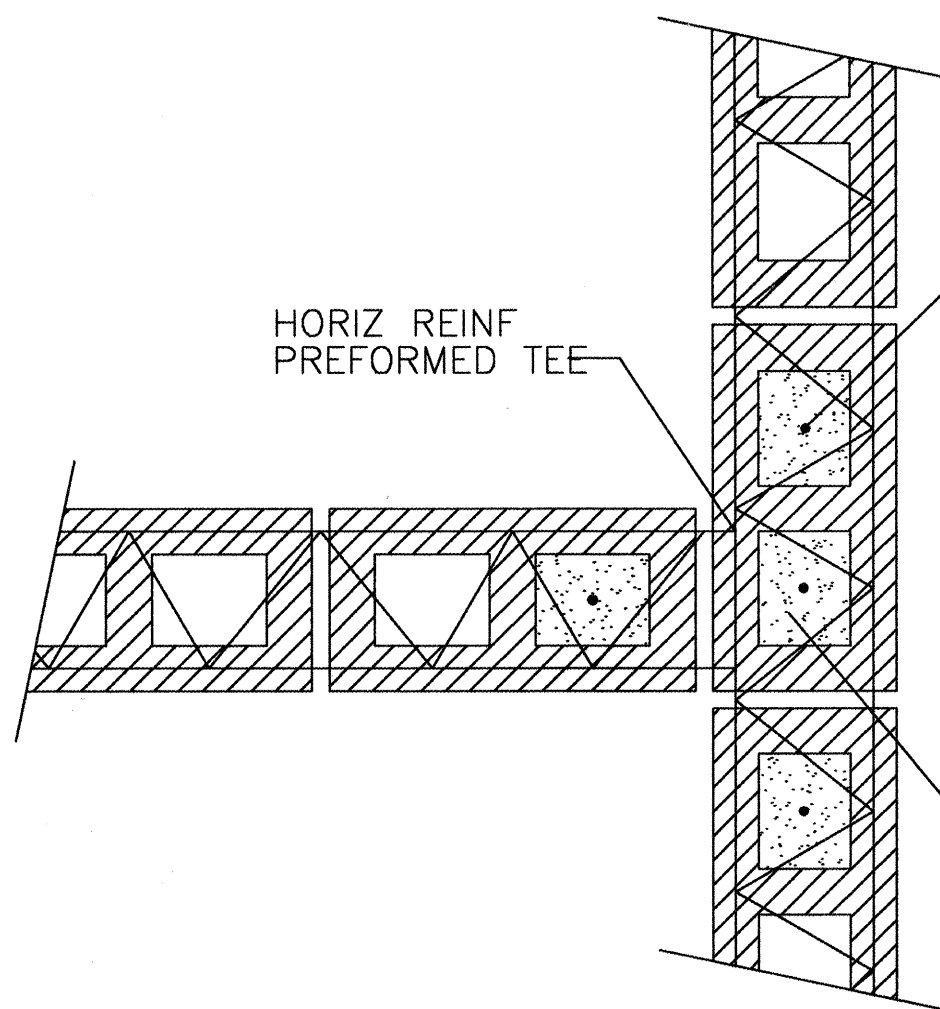
HDR

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

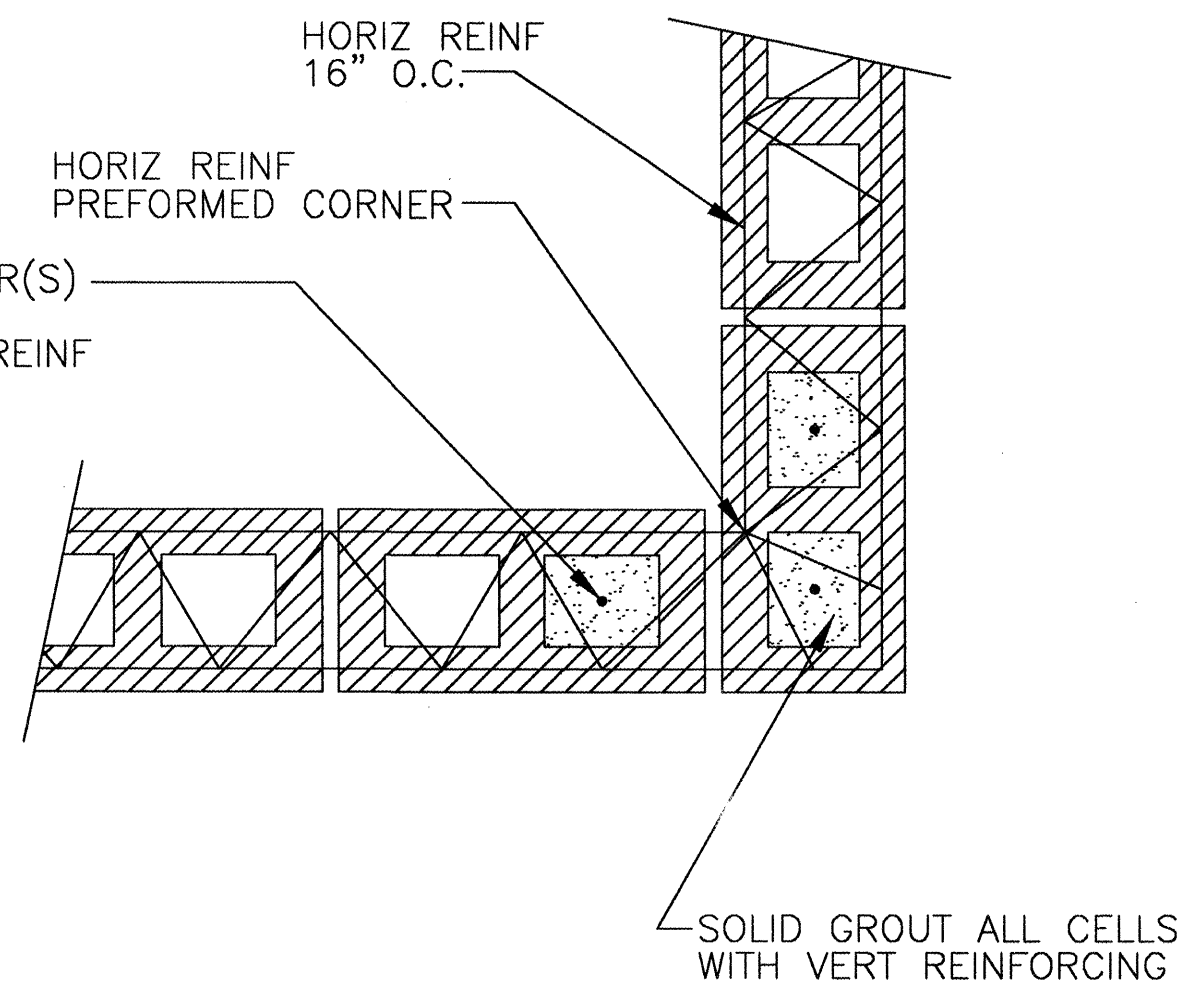
TITLE: PAJARITO AREA VACUUM STATION
STRUCTURAL - ROOF FRAMING
PLAN AND DETAILS

Design Review Committee	City Engineer Approval	W. Pay/ty.	W. Pay/ty.
REVIEWED BY: [Signature]	APPROVED BY: [Signature]		
DATE: [Date]	DATE: [Date]		
PROJECT NO. TS - 01 - 13 COA - 647291	MAP NO. Q-10, R-10	SHEET S-05	OF 6



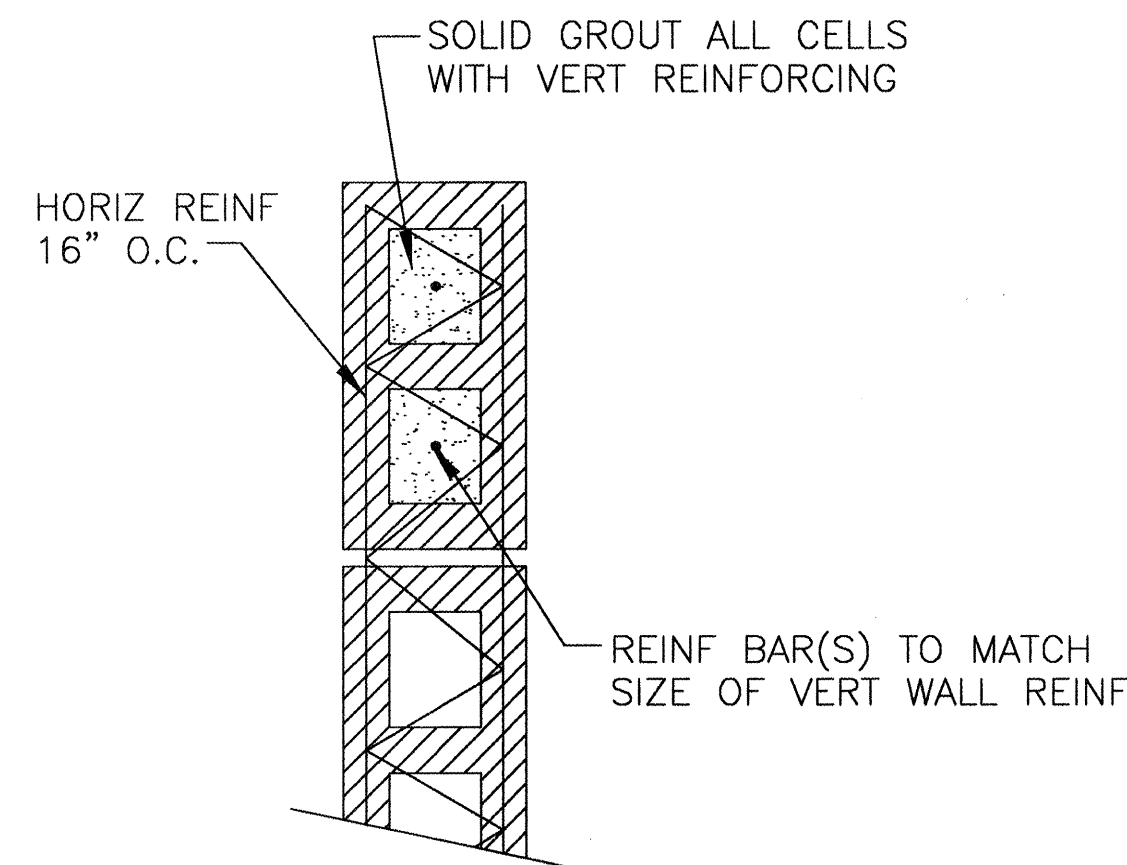
CMU REINFORCING AT INTERSECTIONS

NO SCALE



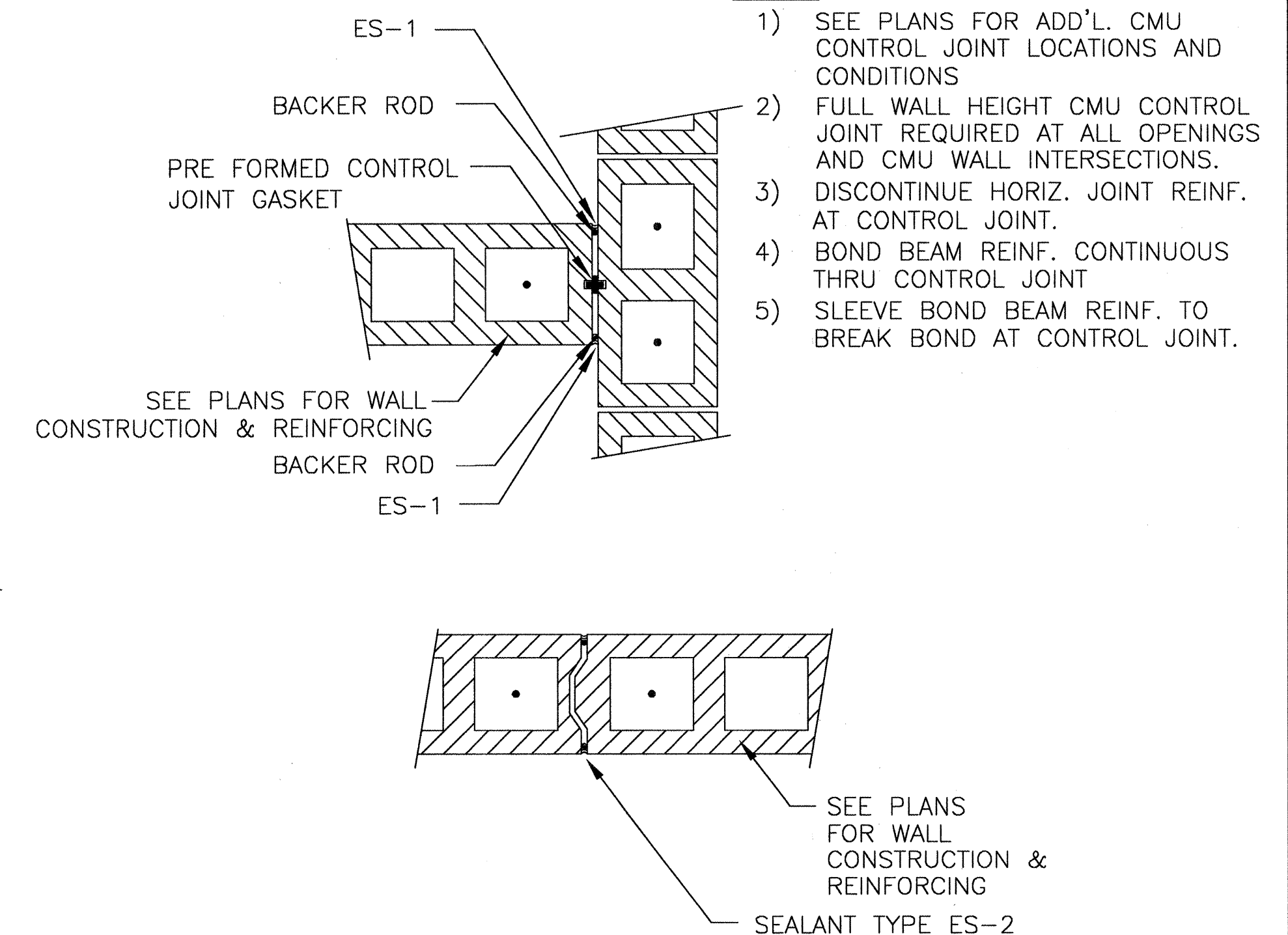
CMU REINFORCING AT CORNERS

NO SCALE



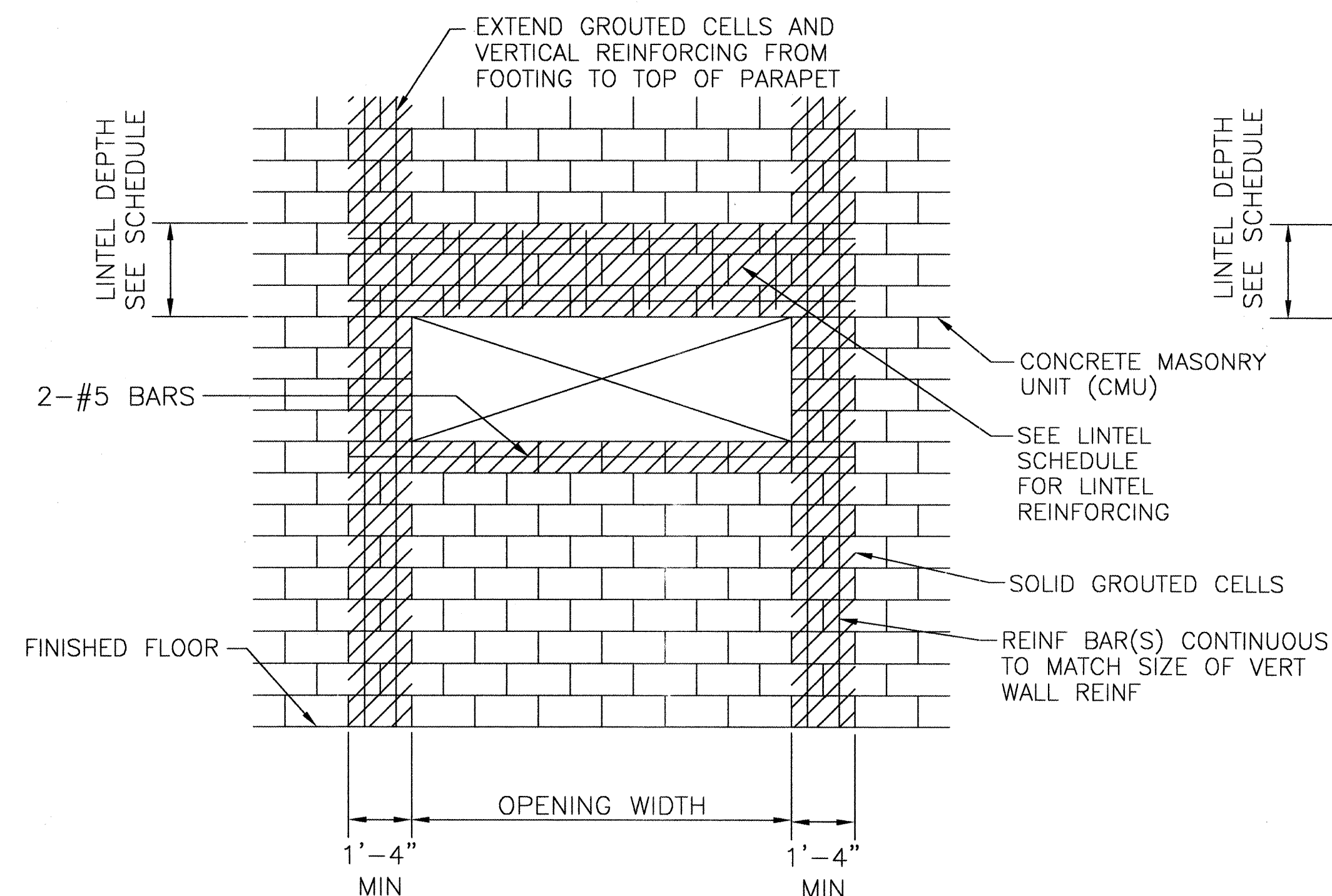
CMU REINFORCING AT END OF WALLS

NO SCALE



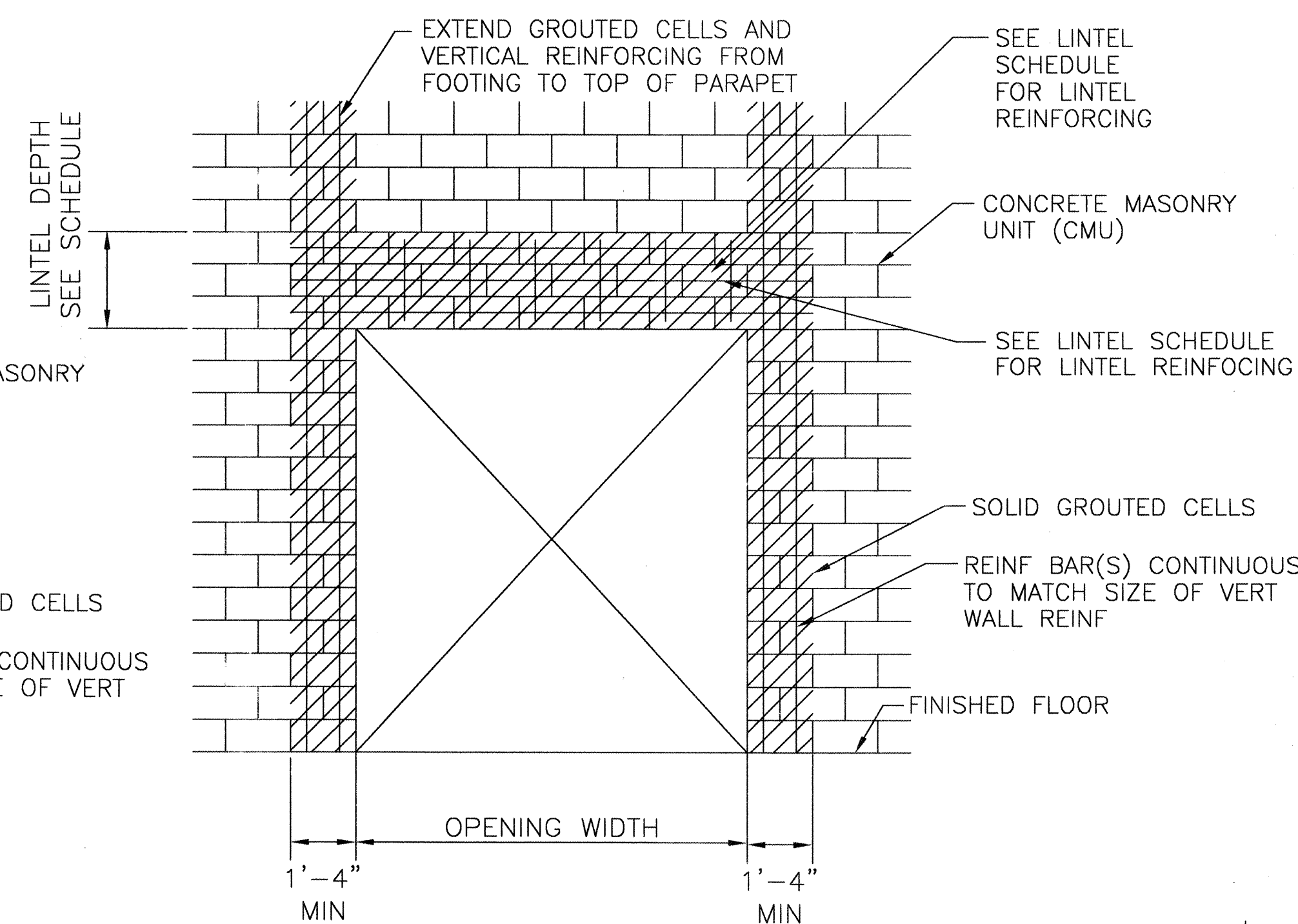
SECTION AT MASONRY CONTROL JOINT

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



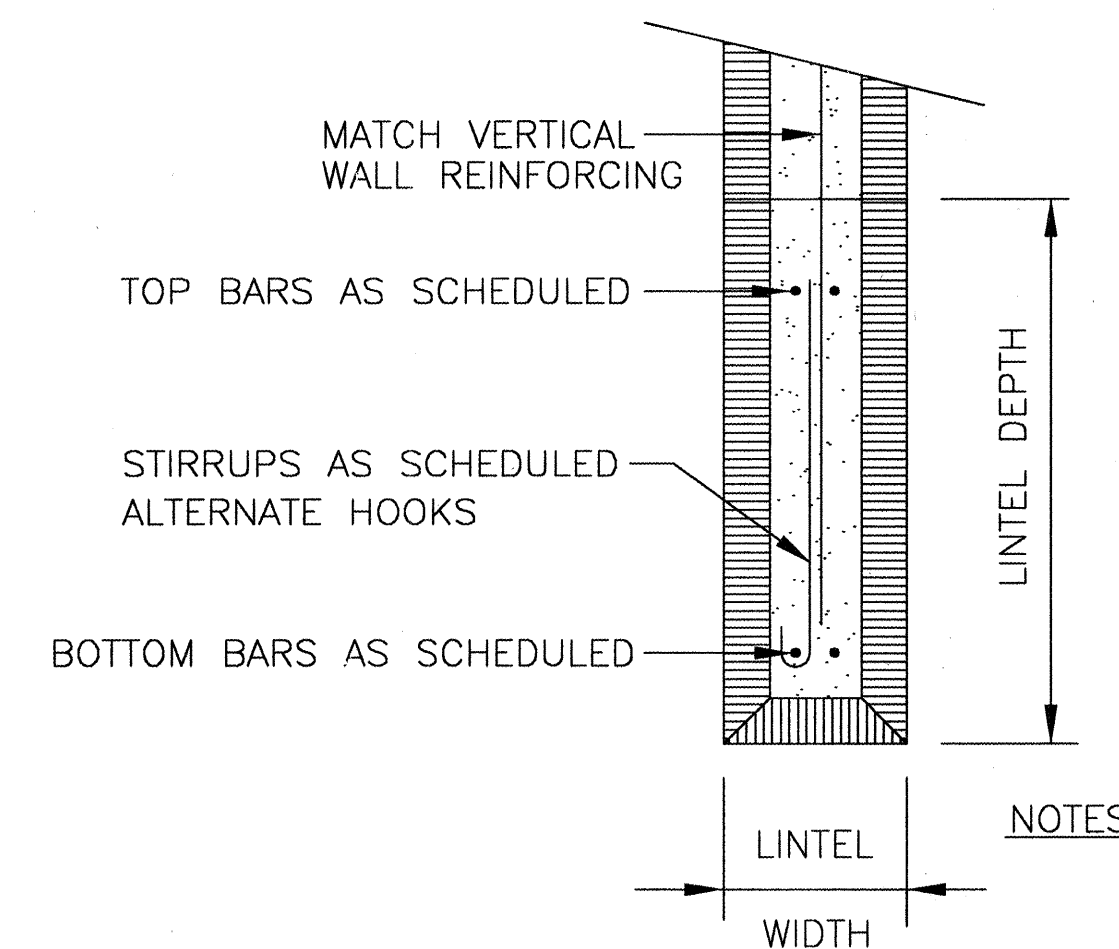
WINDOW LINTEL DETAIL

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



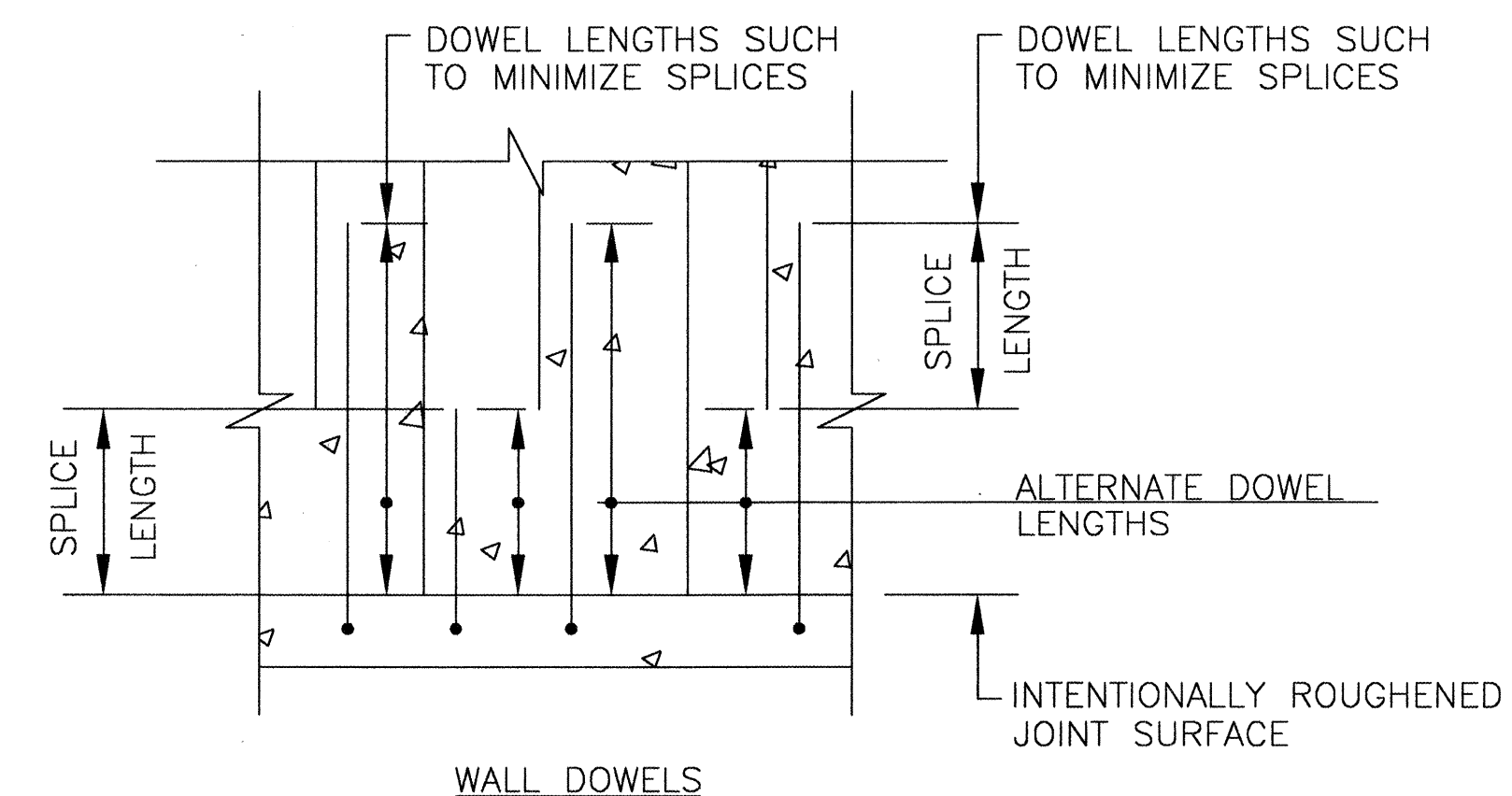
DOOR LINTEL DETAIL

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



LINTEL REINFORCING DETAIL

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



STAGGERED REINFORCING DETAIL

NO SCALE

LINTEL SCHEDULE							
LINTEL MARK	OPENING WIDTH	LINTEL DIM		REINFORCING			LOCATION
		WIDTH	DEPTH	BOT	TOP	STIRRUPS	
L1	8'-0"	12"	32"	2-#5	2-#5	#5 @ 16"	ROLL-UP DOOR
L2	2'-0"	12"	8"	2-#5	---	---	MECHANICAL, WEST
L3	2'-0"	12"	8"	2-#5	---	---	MECHANICAL, SOUTH
L4	2'-0"	12"	8"	2-#5	---	---	MECHANICAL, NORTH
L5	4'-0"	12"	16"	2-#5	---	---	WINDOW @ MCC
L6	3'-4"	12"	16"	2-#5	---	---	MANDOOR TO BLDGS.
L7	2'-0"	8"	16"	2-#5	---	---	MECHANICAL, MCC
L8	2'-0"	8"	8"	2-#5	---	---	MECHANICAL, EAST

NOTES:

- 1) SEE PLANS FOR ADD'L. CMU CONTROL JOINT LOCATIONS AND CONDITIONS
- 2) FULL WALL HEIGHT CMU CONTROL JOINT REQUIRED AT ALL OPENINGS AND CMU WALL INTERSECTIONS.
- 3) DISCONTINUE HORIZ. JOINT REINF. AT CONTROL JOINT.
- 4) BOND BEAM REINF. CONTINUOUS THRU CONTROL JOINT
- 5) SLEEVE BOND BEAM REINF. TO BREAK BOND AT CONTROL JOINT.

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
WORK	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
DESIGNED BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
DRAWN BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
CHECKED BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
RECORDED BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE		
MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION				MICRO-FILM INFORMATION			
DATE				DATE				DATE				DATE			
NO.				NO.				NO.				NO.			

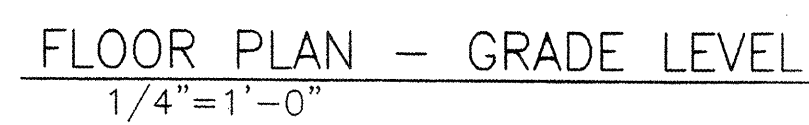
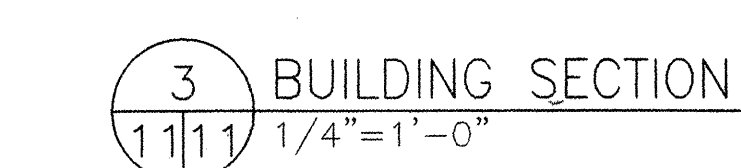
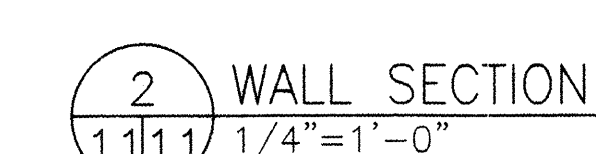
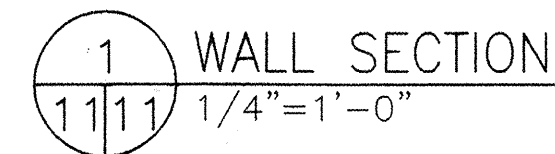
NO.	DATE	REVISIONS	BY
1	NOV 2001	DESIGN	WfZ
2	NOV 2001	DESIGN	WfZ
3	JAN 2002	DESIGN	WfZ

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

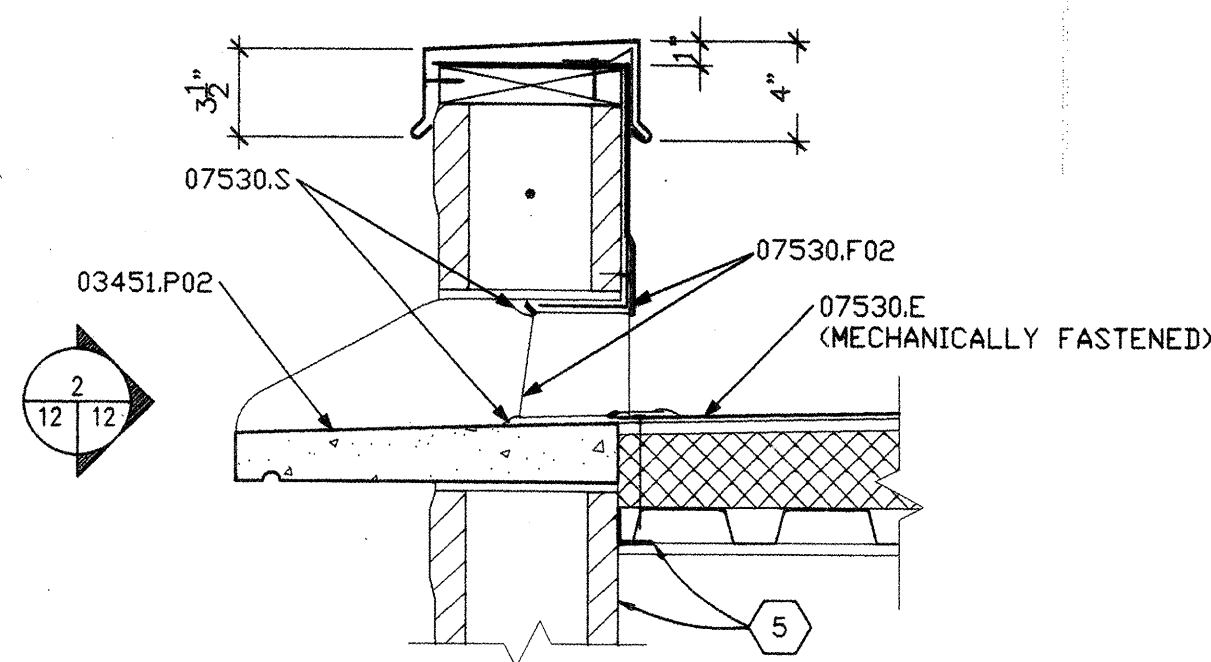
TITLE: PAJARITO AREA VACUUM STATION
MASONRY DETAILS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE
PROJECT NO. TS - 01 - 13 COA - 647291	MAP NO. Q-10, R-10	SHEET S-06 OF 6

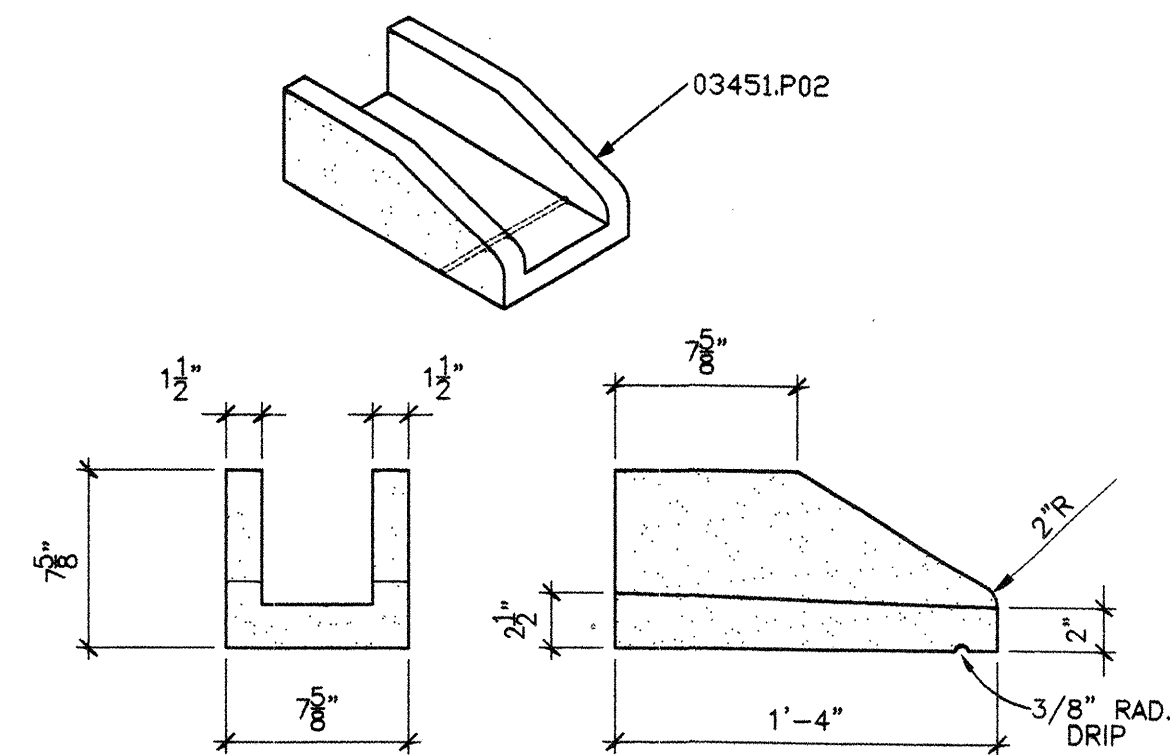


- | | |
|-------------|-------------|
| STATION | |
| CTIONS | |
| Mo./Day/Yr. | Mo./Day/Yr. |
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| SHEET | OF |
| A-1 | 5 |

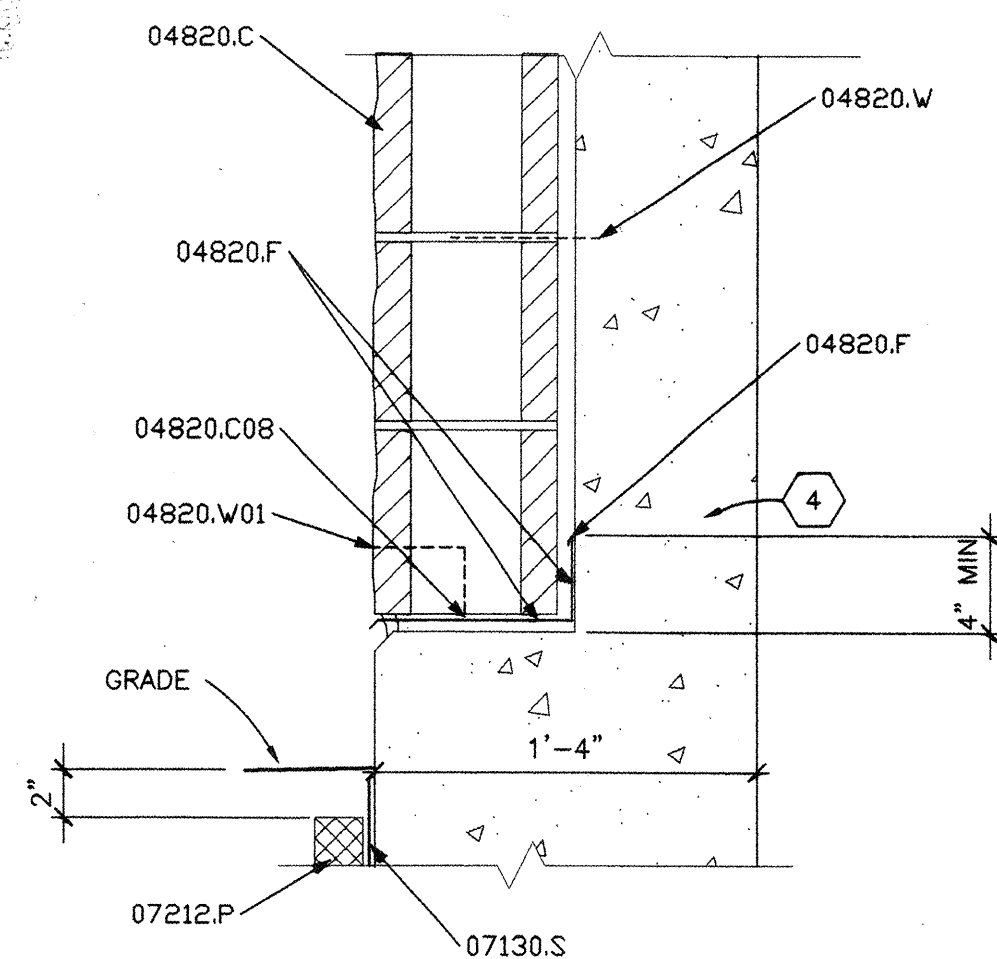
SCANNED BY
MESA REPRO



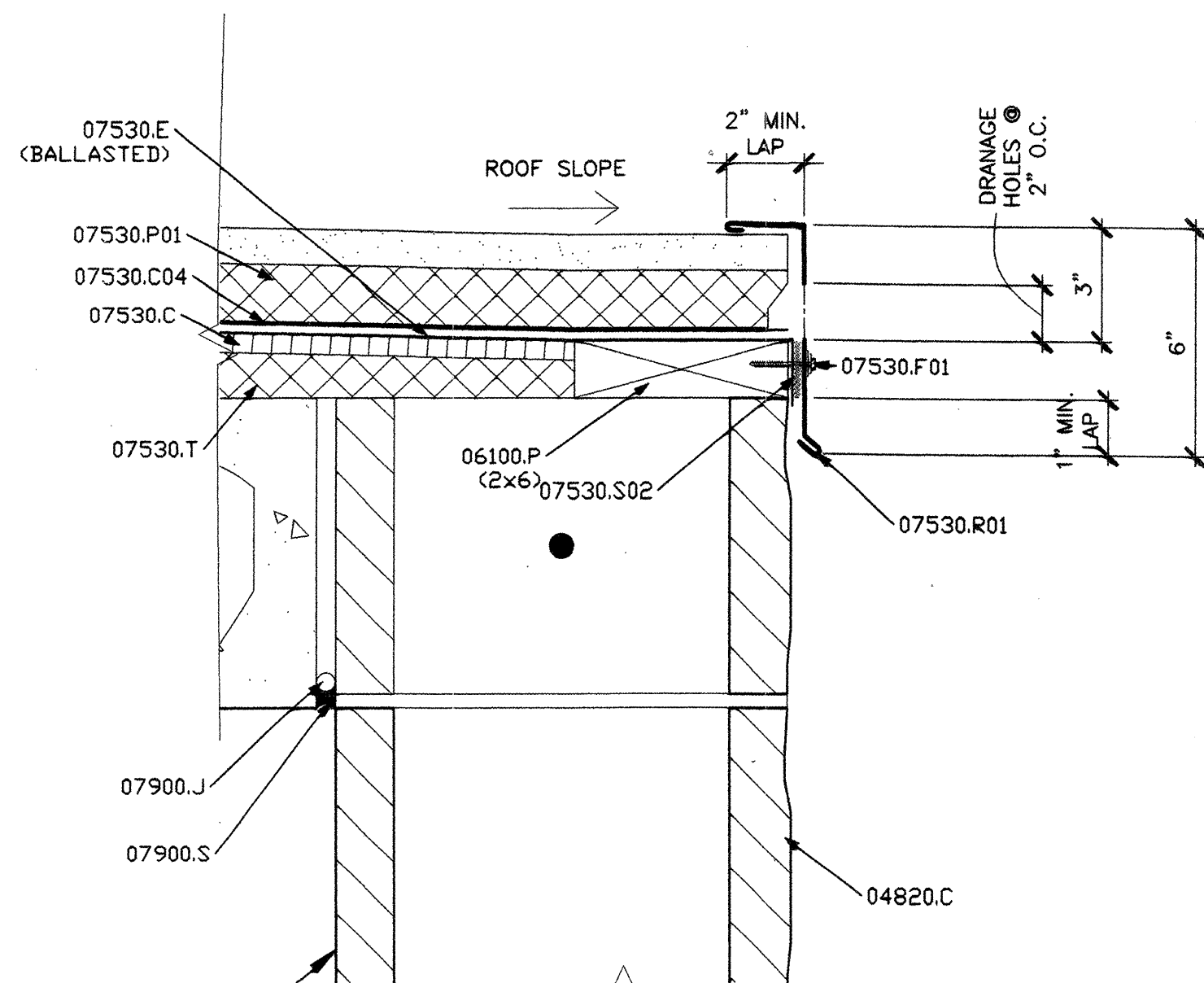
1 SECTION AT SCUPPER
1 1/2"=1'-0"



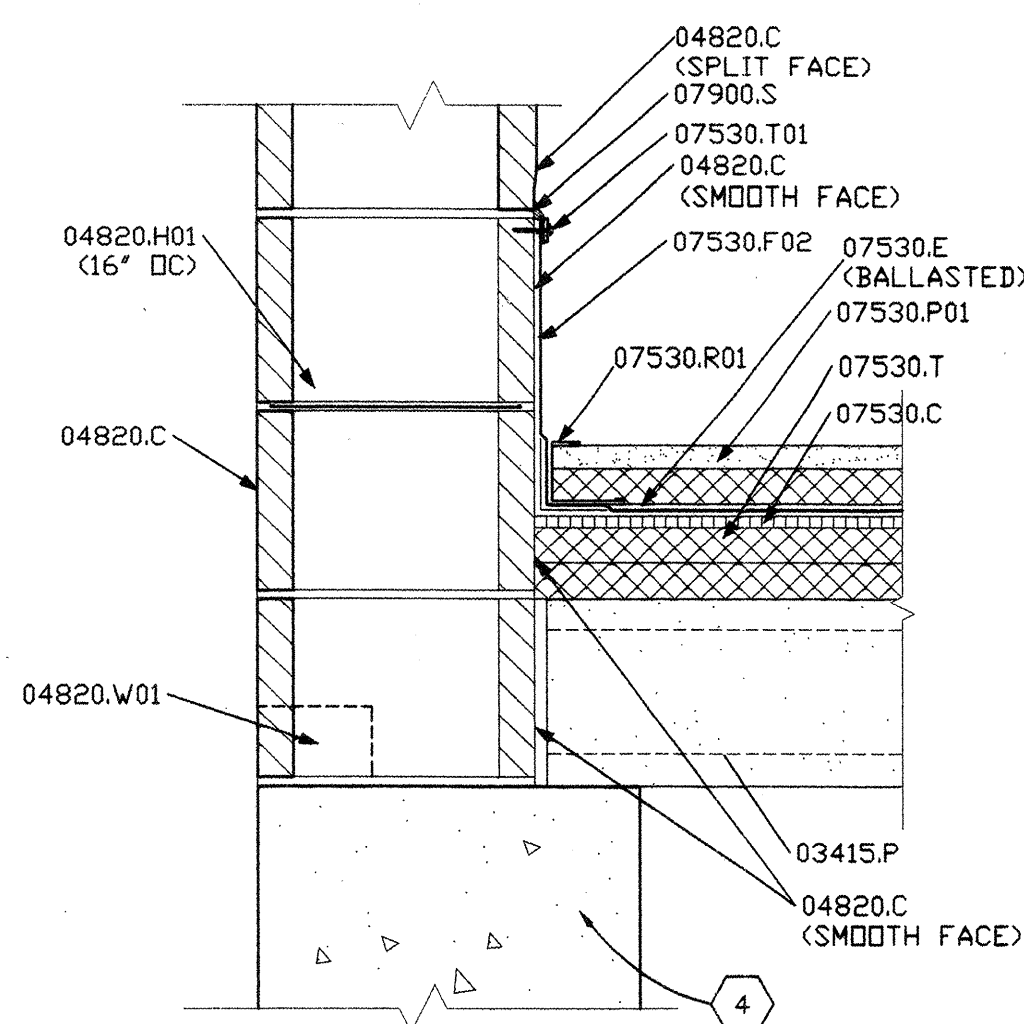
2 SCUPPER DETAIL
1 1/2"=1'-0"



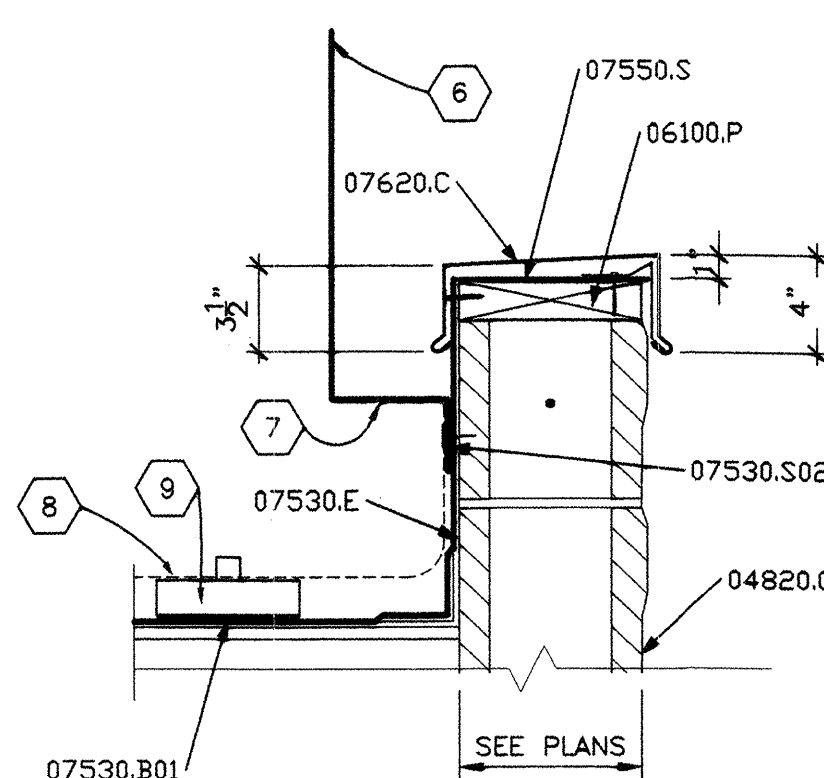
3 WALL SECTION
1 1/2"=1'-0"



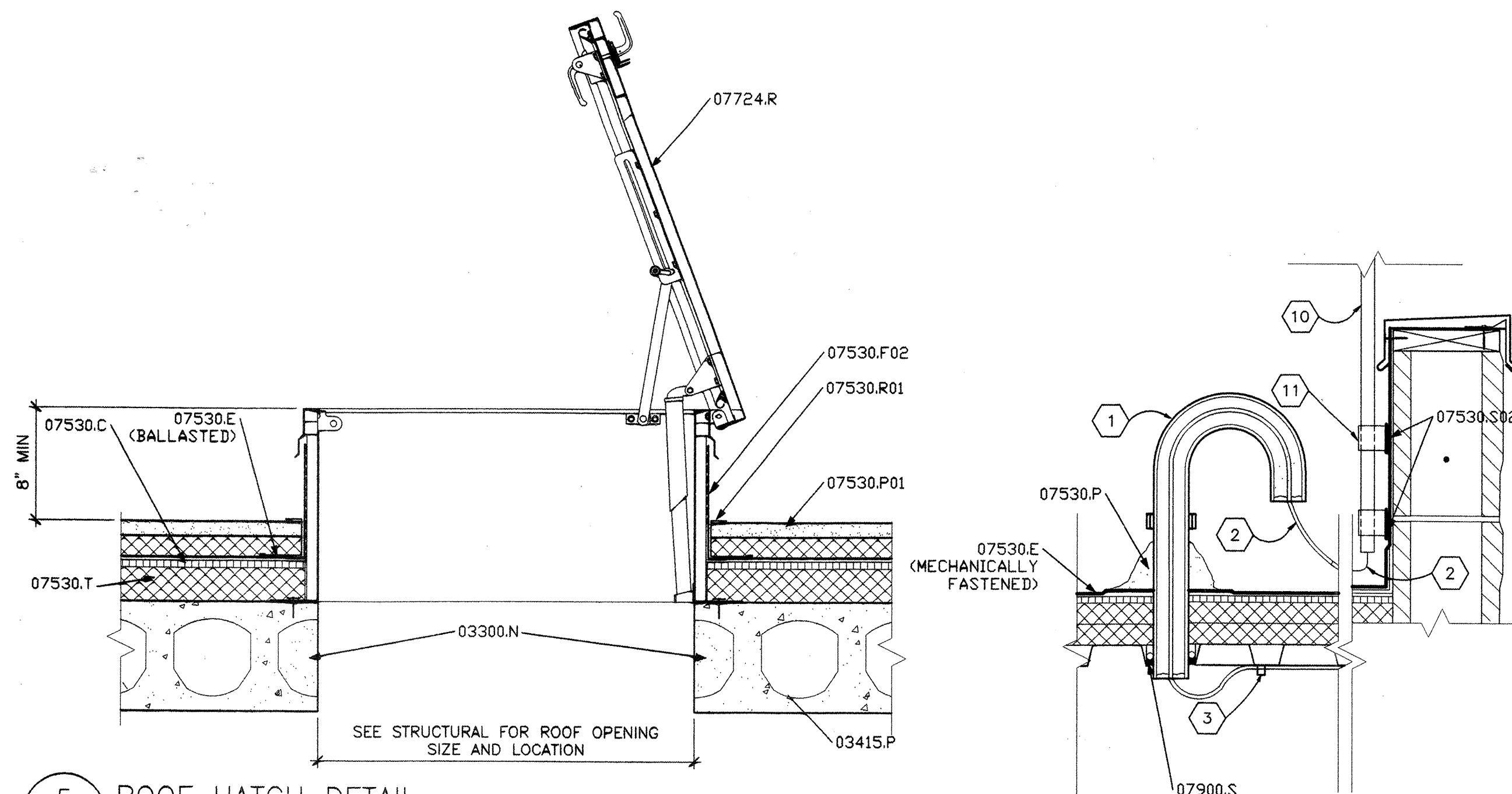
4 WALL SECTION
3"=1'-0"



6 WALL SECTION
1 1/2"=1'-0"

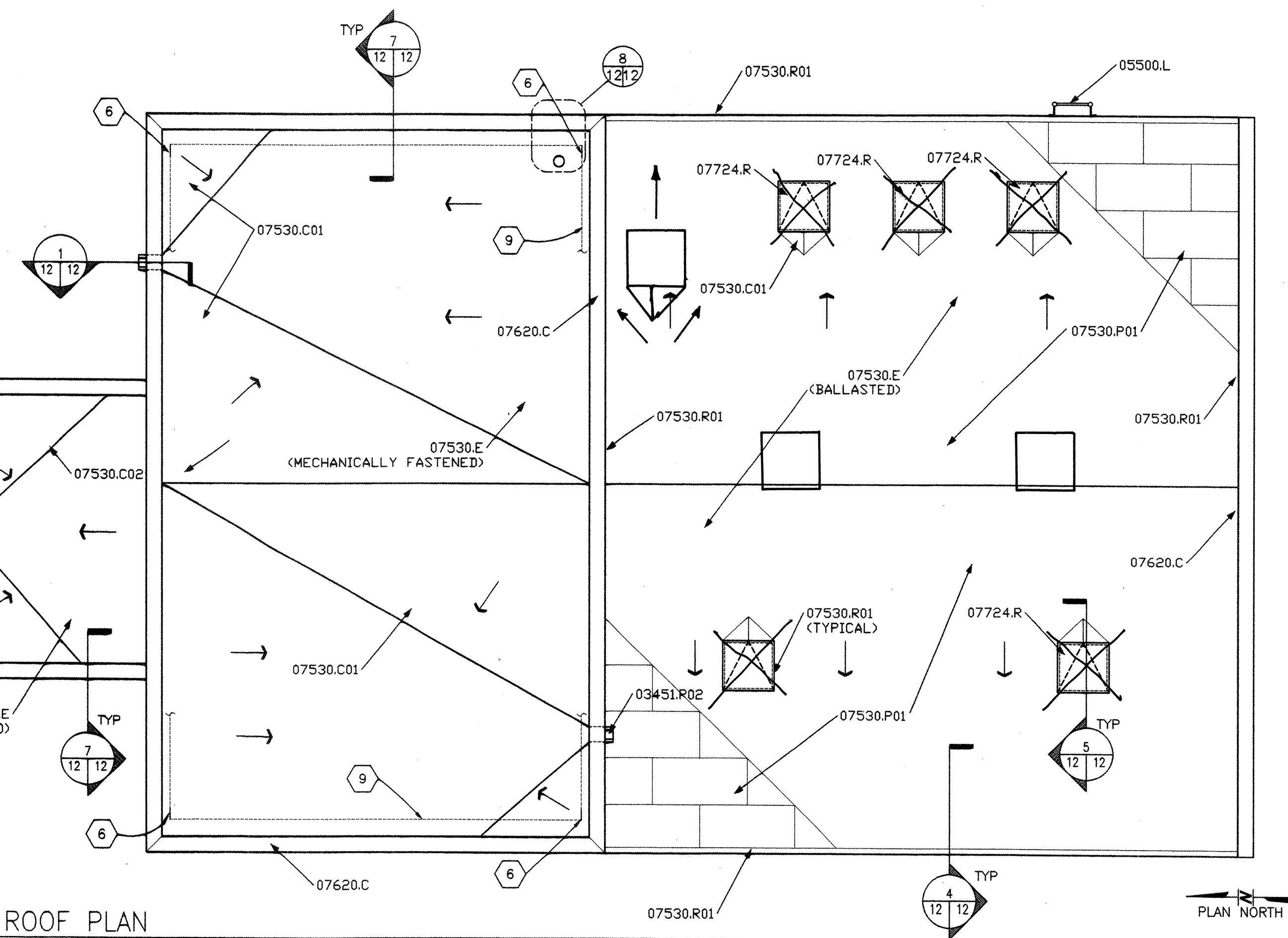


7 PARAPET SECTION
1 1/2"=1'-0"



5 ROOF HATCH DETAIL
1 1/2"=1'-0"

8 ROOF PENETRATION DETAIL
1 1/2"=1'-0"



ROOF PLAN
1/4"=1'-0"

GENERAL SHEET NOTES:

- A) REFERENCE FINISH FLOOR ELEVATION = 100'-0" AND REFERENCES DATUM ELEVATION, SEE CIVIL DRAWINGS FOR DATUM.
- B) SOLID GROUT ALL CMU CELLS WITH REINFORCING- SEE STRUCTURAL.
- C) COORDINATE VERTICAL LOCATION OF ROOF SCUPPER WITH ROOFING SYSTEM COMPONENTS PRIOR TO INSTALLATION.

REFERENCE KEYNOTES :

DIVISION 3 - CONCRETE

- 03300.N NON-SHRINK GROUT
- 03415.P PRECAST PLANK
- 03451.P02 PRECAST CONCRETE SCUPPER

DIVISION 4 - MASONRY

- 04820.C CONCRETE MASONRY UNITS
- 04820.C08 CAVITY DRAINAGE MATERIAL
- 04820.F FLASHING
- 04820.H01 HORIZONTAL JOINT REINFORCEMENT
- 04820.W WALL TIES
- 04820.W01 WEEP HOLES

DIVISION 5 - METALS

- 05500.L LADDER

DIVISION 6 - WOOD & PLASTICS

- 06100.P PRESSURE TREATED DIMENSION LUMBER

DIVISION 7 - THERMAL & MOISTURE PROTECTION

- 07130.S SHEET WATERPROOFING
- 07212.P PERIMETER INSULATION
- 07530.B01 BONDING ADHESIVE
- 07530.C COVER BOARD
- 07530.C01 CRICKET
- 07530.C02 CANT STRIP
- 07530.C04 CUSHION SHEET
- 07530.E ELASTOMERIC MEMBRANE ROOFING
- 07530.F01 FASTENER
- 07530.F02 FLEXIBLE FLASHING
- 07530.P PIPE BOOT
- 07530.P01 PAVERS
- 07530.R01 ROOF PAVES TERMINATION
- 07530.S SEAM CAULK
- 07530.S02 SEALANT
- 07530.T TAPERED BOARD INSULATION
- 07530.T01 TERMINATION BAR
- 07550.S SEPARATION SHEET
- 07620.C COPING
- 07724.R ROOF HATCH
- 07900.J JOINT BACKING
- 07900.S SEALANT TYPE ES-1

SHEET KEYNOTES :

- 1" DIA. METAL CONDUIT
- ANTENNA CABLE
- WIRING CLAMP
- SEE STRUCTURAL FOR WALL CONSTRUCTION AND REINFORCING.
- SEE STRUCTURAL FOR WALL AND ROOF CONSTRUCTION.
- LIGHTNING PROTECTION AIR TERMINAL- SEE ELECTRICAL.
- LIGHTNING PROTECTION OFFSET TERMINAL BRACKET- SEE ELECTRICAL.
- LIGHTNING PROTECTION CONDUCTOR- SEE ELECTRICAL.
- LIGHTNING PROTECTION CABLE HOLDER - SEE ELECTRICAL.
- ANTENNAE- SEE ELECTRICAL.
- ANTENNAE MOUNTING BRACKET- SEE ELECTRICAL.

LEGEND:

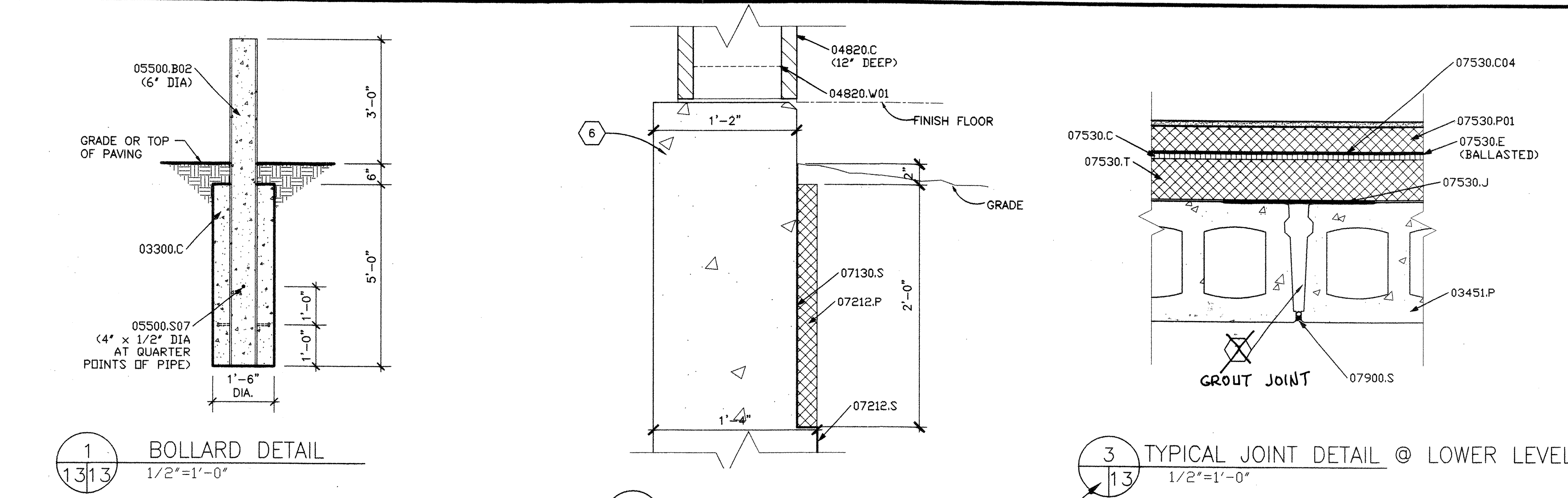
→ INDICATES SLOPE OF ROOF

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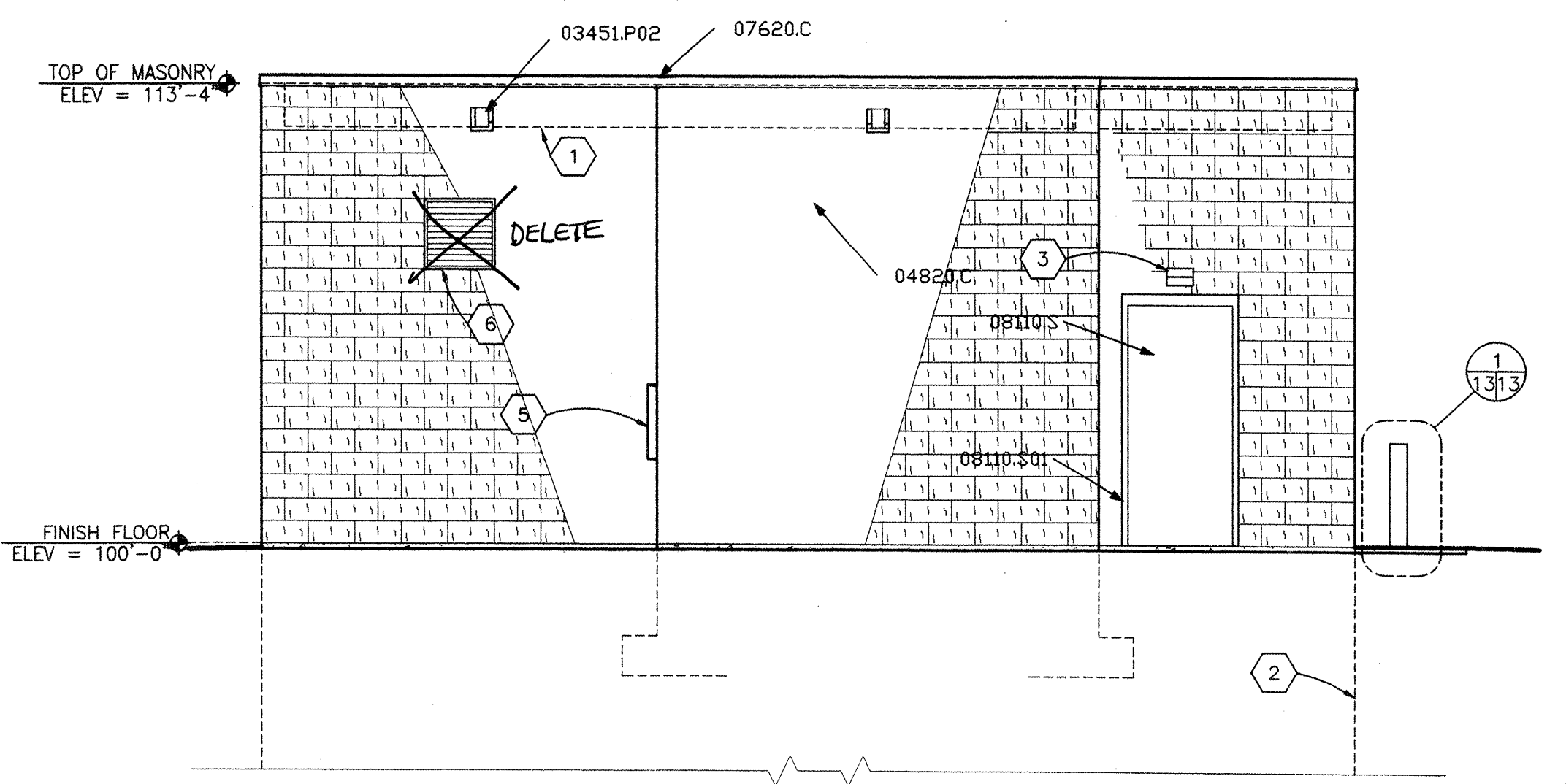
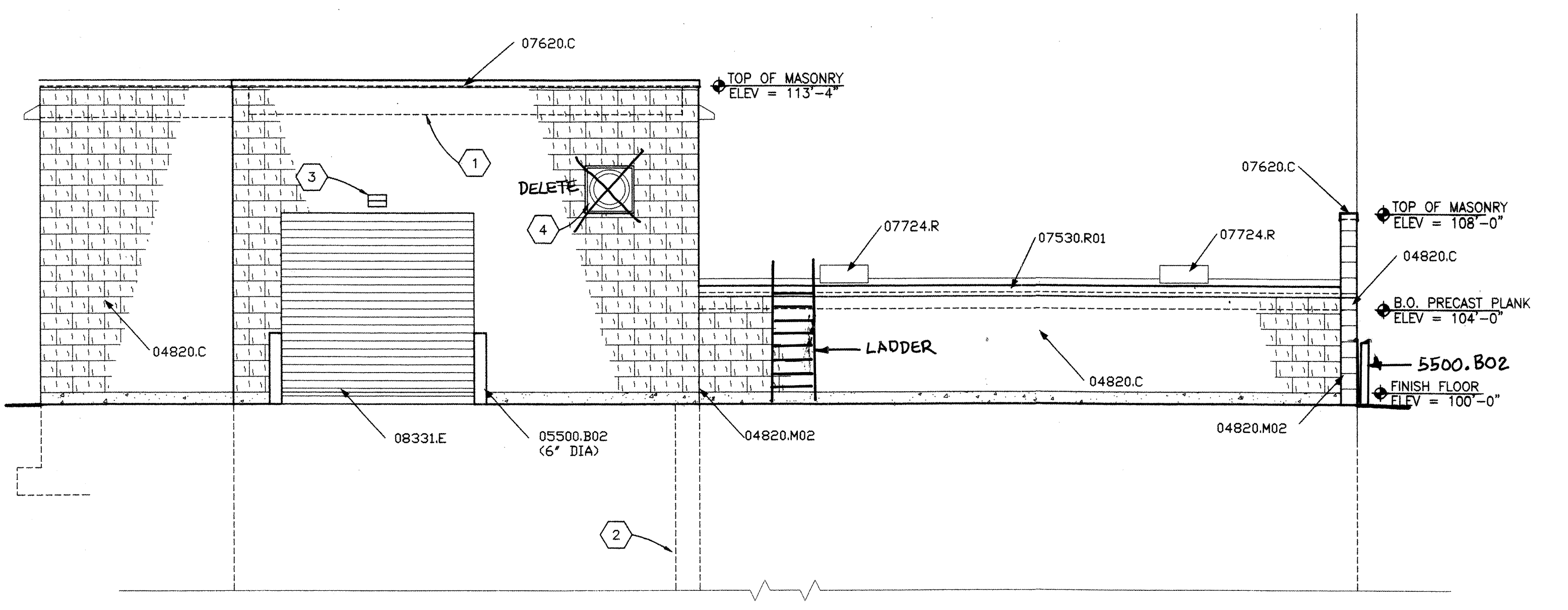
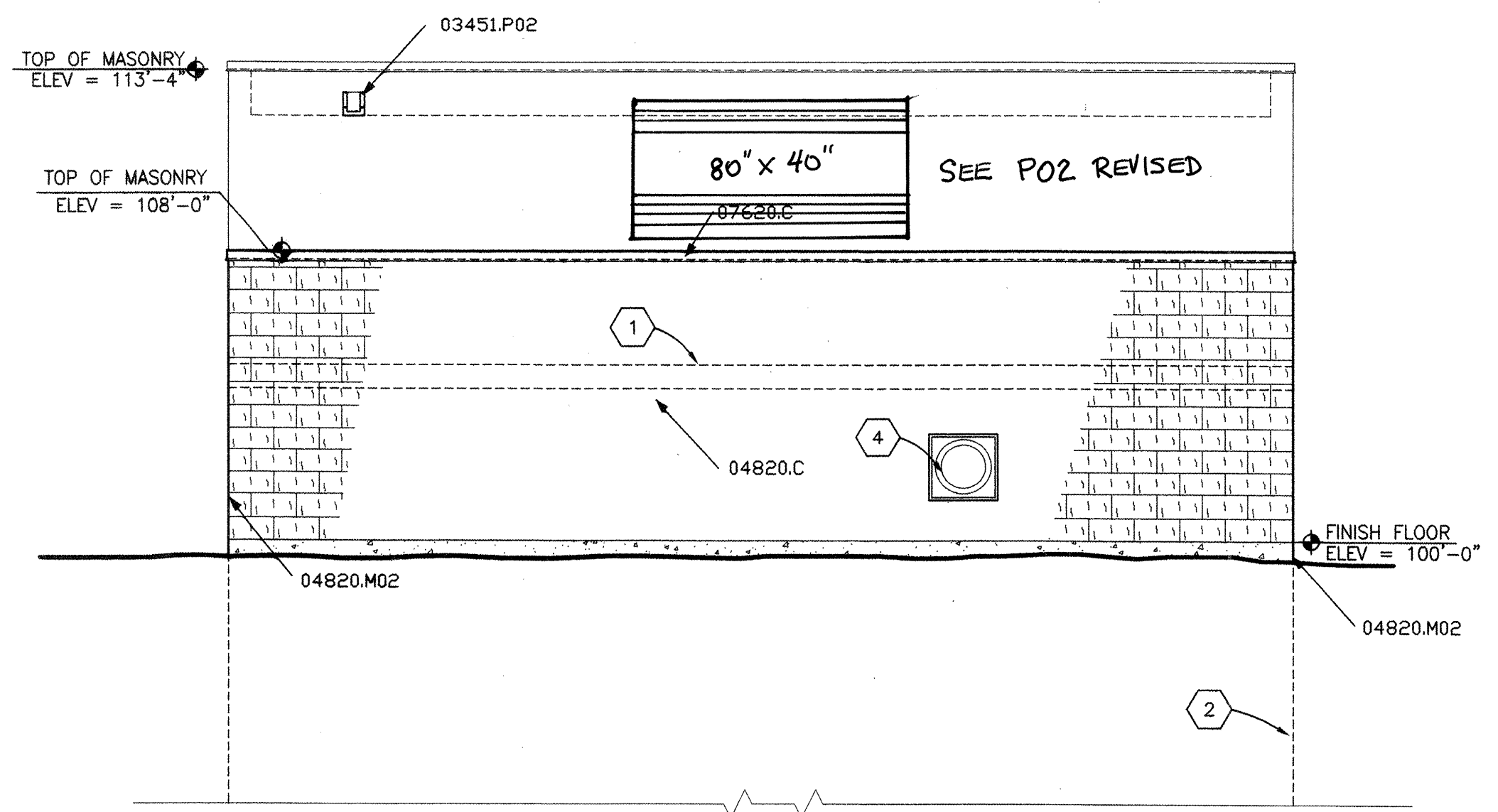
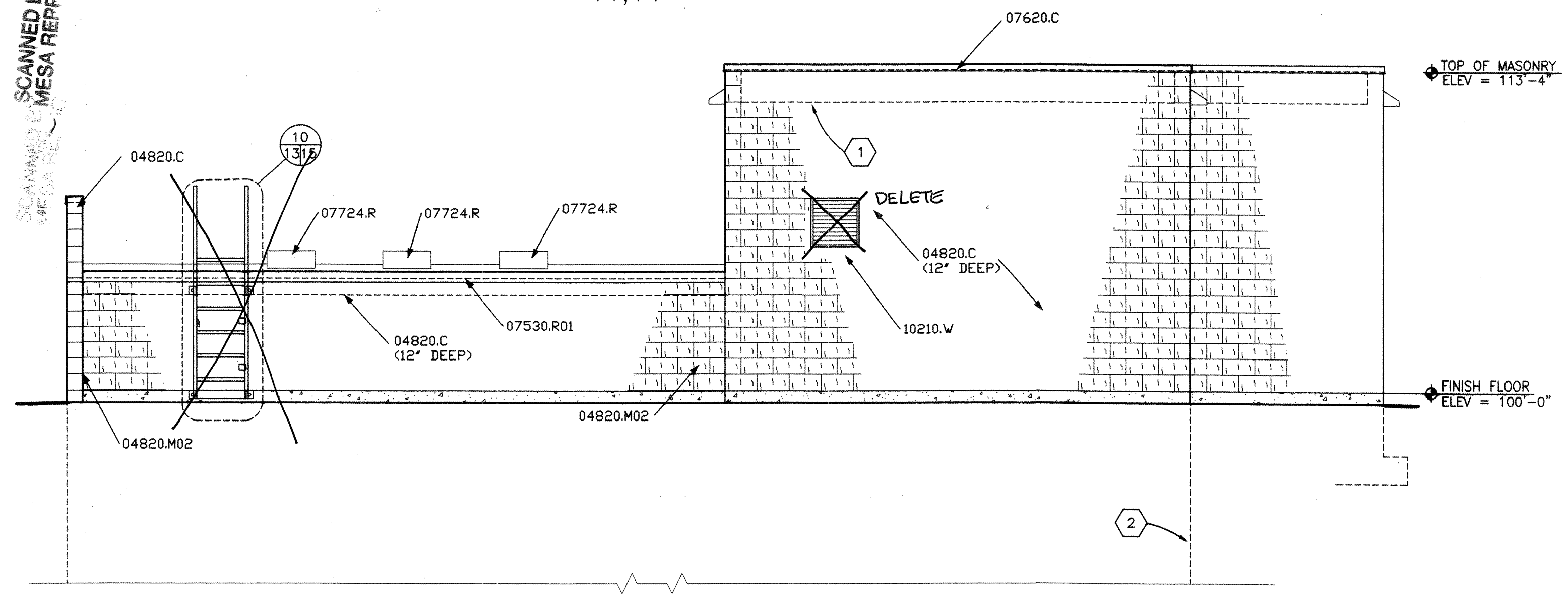
BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
ROOF PLAN AND DETAILS

Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.
PROJECT NO. BC-PWD-21463 COA - 647292	MAP NO. Q-10, R-10	SHEET OF A-2 5	



SCANNED BY
MESA REPRO



GENERAL SHEET NOTES:

A) REFERENCE FINISH FLOOR ELEVATION = 100'-0" AND REFERENCES DATUM ELEVATION, SEE CIVIL DRAWINGS FOR DATUM.

REFERENCE KEYNOTES :

DIVISION 3 — CONCRETE

03300.C CAST-IN-PLACE CONCRETE
03451.P PRECAST CONCRETE SILL
03451.P02 PRECAST CONCRETE SCUPPER

DIVISION 4 — MASONRY

04820.C CONCRETE MASONRY UNITS
04820.M02 MASONRY CONTROL JOINT
04820.W01 WEEP HOLES

DIVISION 5 — METALS

05500.B02 BOLLARD
05500.S07 STUD ANCHOR

DIVISION 7 — THERMAL & MOISTURE PROTECTION

07130.S SHEET WATERPROOFING
07212.P PERIMETER INSULATION
07212.S SHEET VAPOR RETARDER
07530.C COVER BOARD
07530.C04 CUSHION SHEET
07530.E ELASTOMERIC MEMBRANE ROOFING
07530.J JOINT CUSHION
07530.P01 PAVERS
07530.R01 ROOF PAVES TERMINATION
07530.T TAPERED BOARD INSULATION
07620.C COPING
07724.R ROOF HATCH
07900.S SEALANT TYPE ES-1

DIVISION 8 — DOORS & WINDOWS

08110.S STEEL DOOR
08110.S01 STEEL FRAME
08331.E EXTERIOR COILING DOOR

DIVISION 10 — SPECIALTIES

10210.W WALL LOUVER

SHEET KEYNOTES :

1. LINE OF ROOF BEYOND
2. LINE OF FOUNDATION BELOW
3. WALL MOUNTED FIXTURE — SEE ELECTRICAL
4. EXHAUST FAN — SEE MECHANICAL
5. AIR CONDITIONER UNIT — SEE MECHANICAL
6. SEE PLANS FOR WALL CONSTRUCTION
7. ~~DO NOT~~ FILL VOIDS BETWEEN PLANKS WITH GROUT.
PER WADE @HDR 5/19/03

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		SEALS	
CONTRACTOR	DATE	INSPECTOR'S	DATE	FIELD	DATE	NO.	BY
See	SH. 2						

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

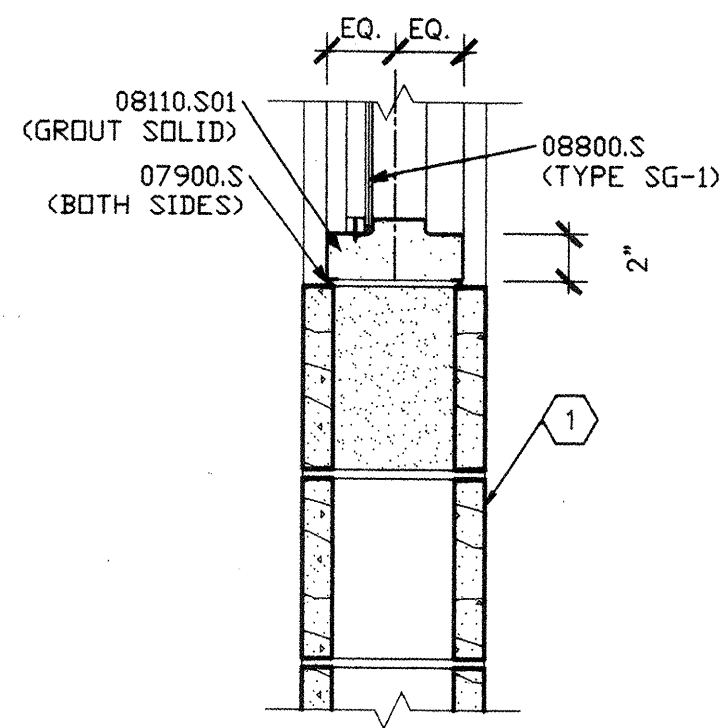
TITLE: PAJARITO AREA VACUUM STATION
EXTERIOR ELEVATIONS

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	BY

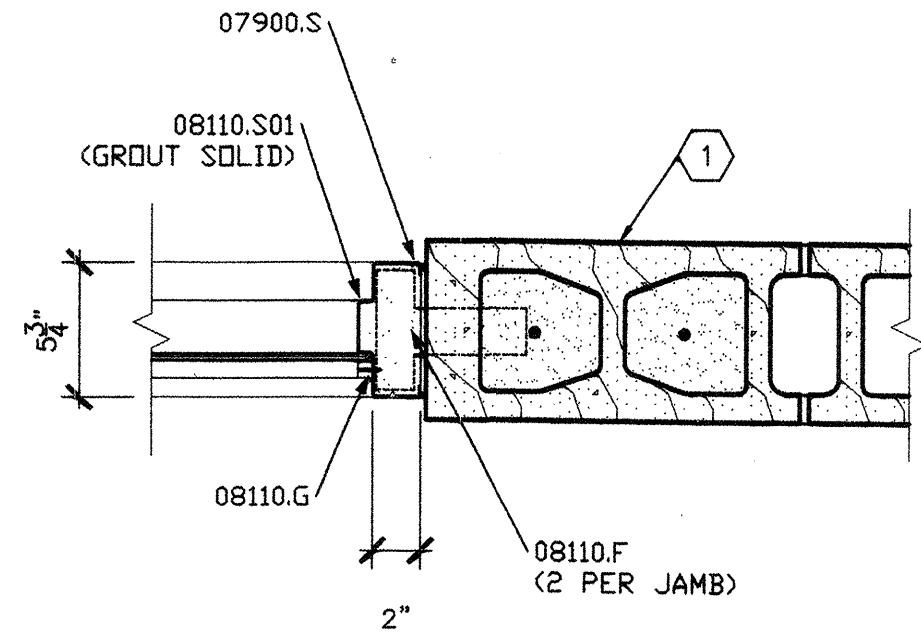
PROJECT NO. BC-PWD-21463
COA - 647292

MAP NO. Q-10, R-10

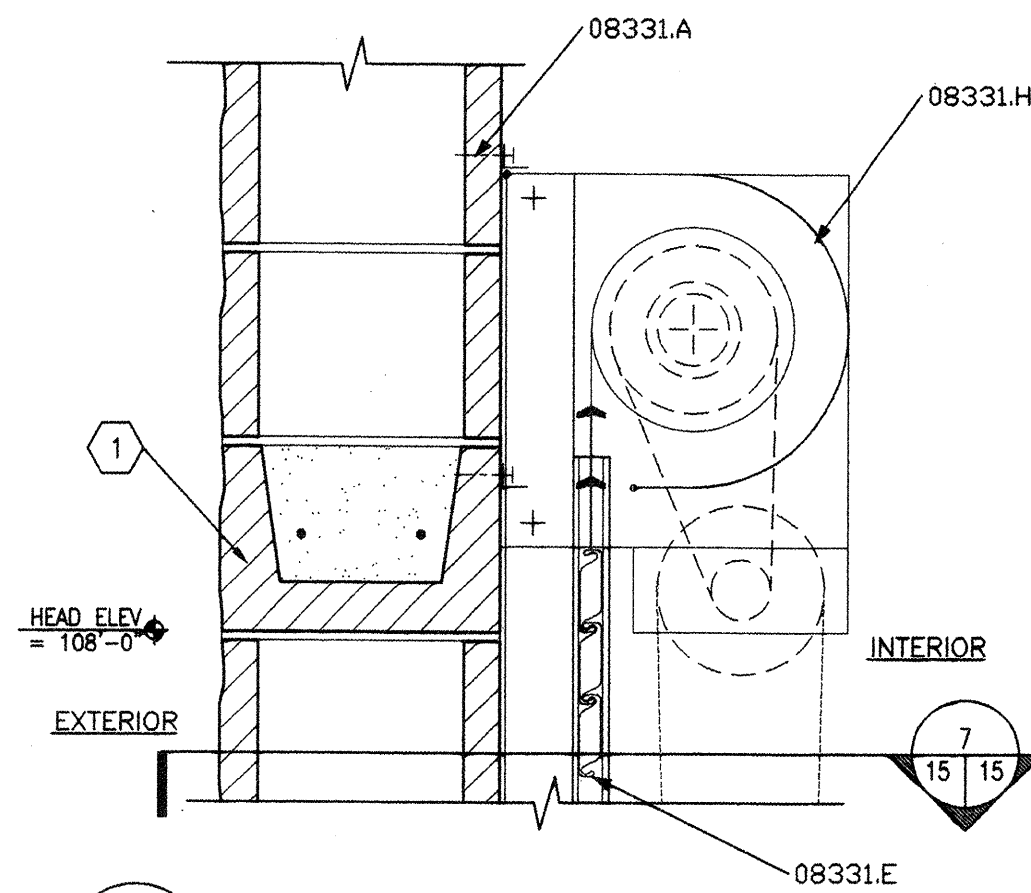
SHEET A-3 OF 5



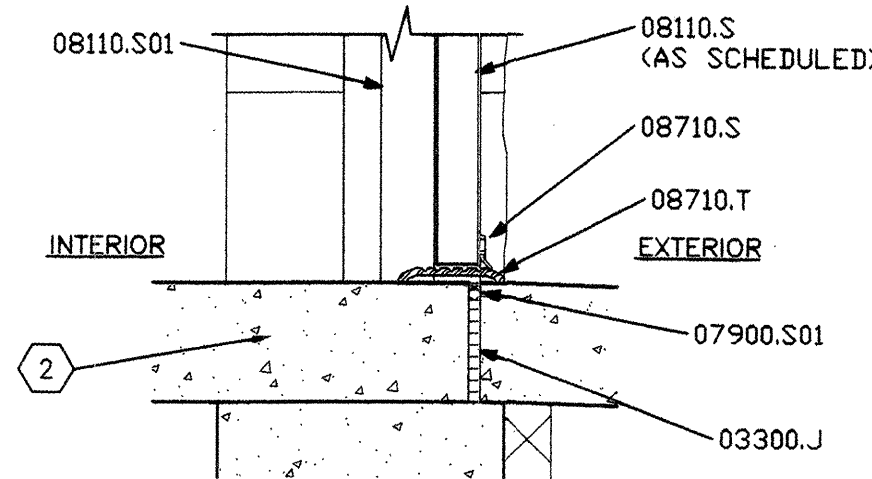
1 WINDOW SILL DETAIL (HEAD SIMILAR)
1 1/2"=1'-0"



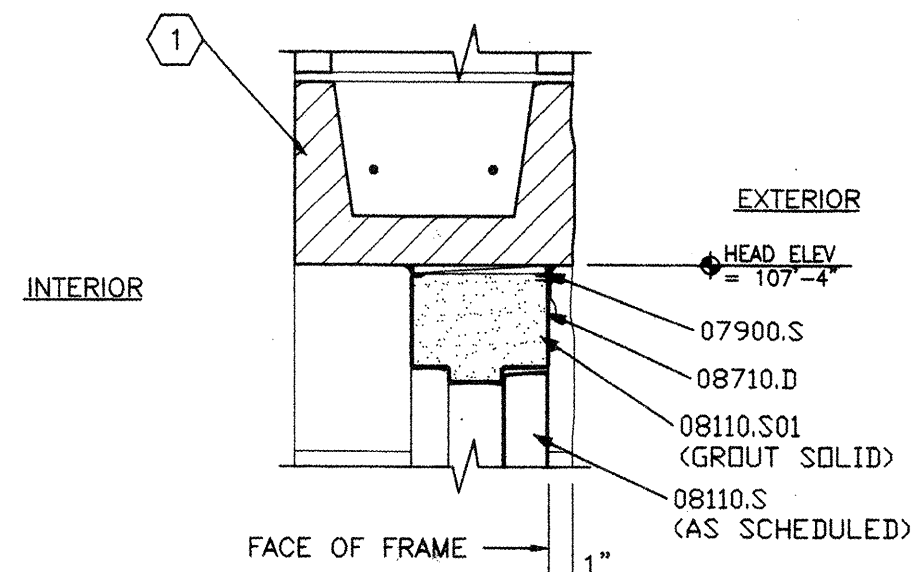
2 JAMB WINDOW DETAIL (HEAD SIMILAR)
1 1/2"=1'-0"



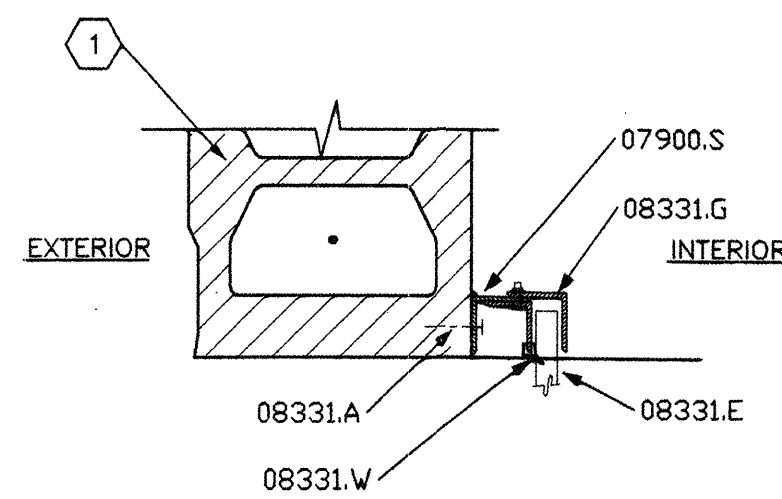
3 HEAD DETAIL
1 1/2"=1'-0"



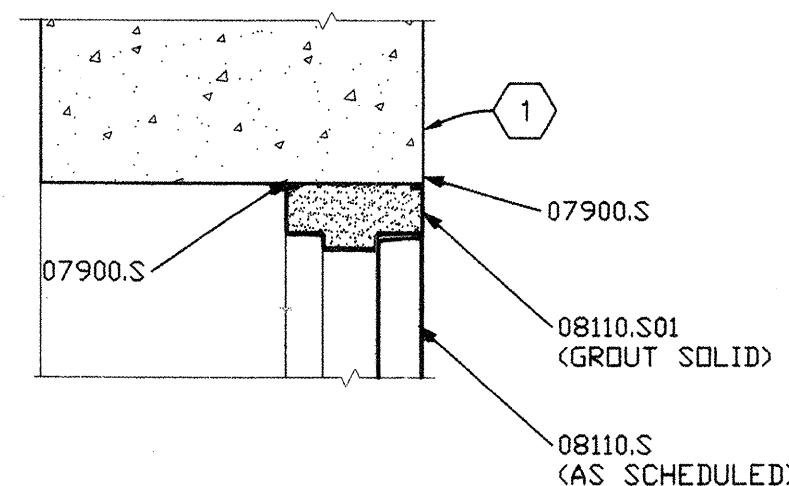
6 SILL DETAIL
1 1/2"=1'-0"



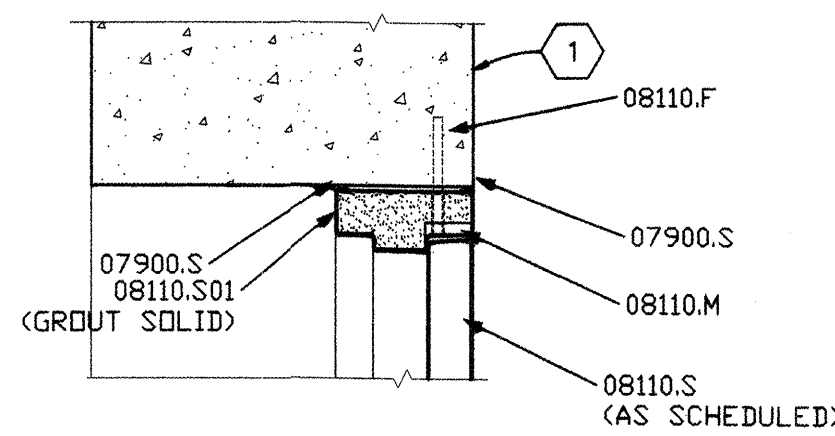
5 HEAD DETAIL
1 1/2"=1'-0"



7 JAMB DETAIL
1 1/2"=1'-0"



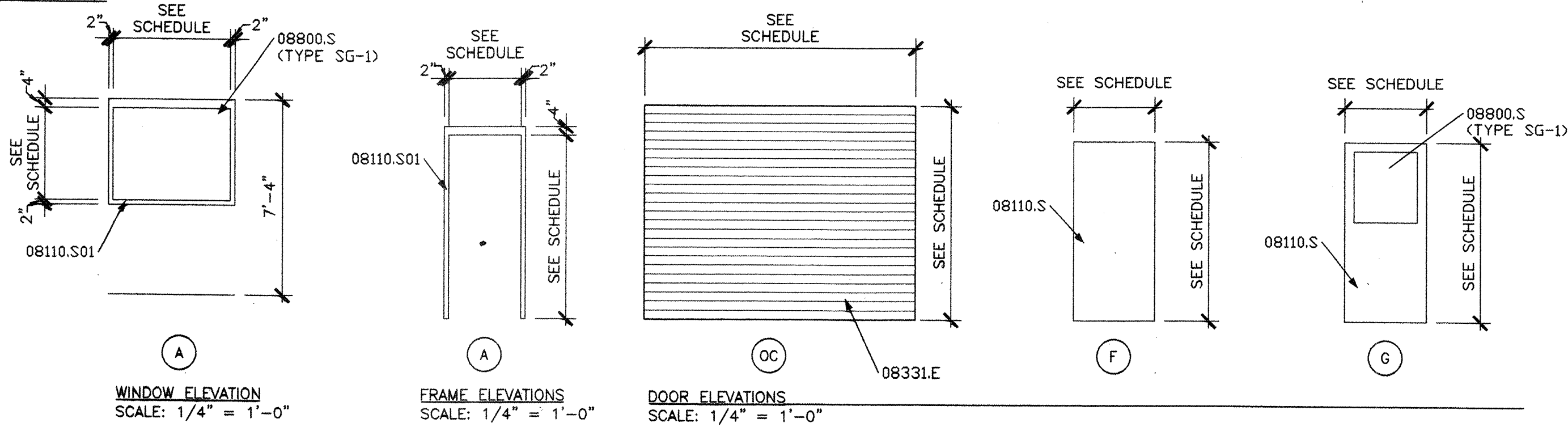
4 HEAD DETAIL
1 1/2"=1'-0"



8 JAMB DETAIL
1 1/2"=1'-0"

DOOR AND FRAME SCHEDULE																		
DOOR									FRAME						FIRE RATING LABEL	HARDWARE		NOTES
MARK	QTY	SIZE			EL	MATL	LOUVER		EL	MATL	DETAILS			SET NO		KEYSIDE ROOM NO		
		W	H	THK			W	HGT			HEAD	JAMB	SILL					
101	1	3'-0"	7'-0"	1 3/4"	F	HM	-	-	A	HM	5/15	5/15 SIM	6/15	-	HW-1	EXTERIOR		
101A	1	8'-0"	8'-0"		OC	STL	-	-	-	STL	3/15	7/15	-	-	-	EXTERIOR		
102	1	3'-0"	7'-0"	1 3/4"	G	HM	-	-	A	HM	4/15	8/15	-	-	HW-2	101	WITH 2'-4" WIDE x 2'-8" HIGH GLAZING	
HM = HOLLOW METAL STL = STEEL																		

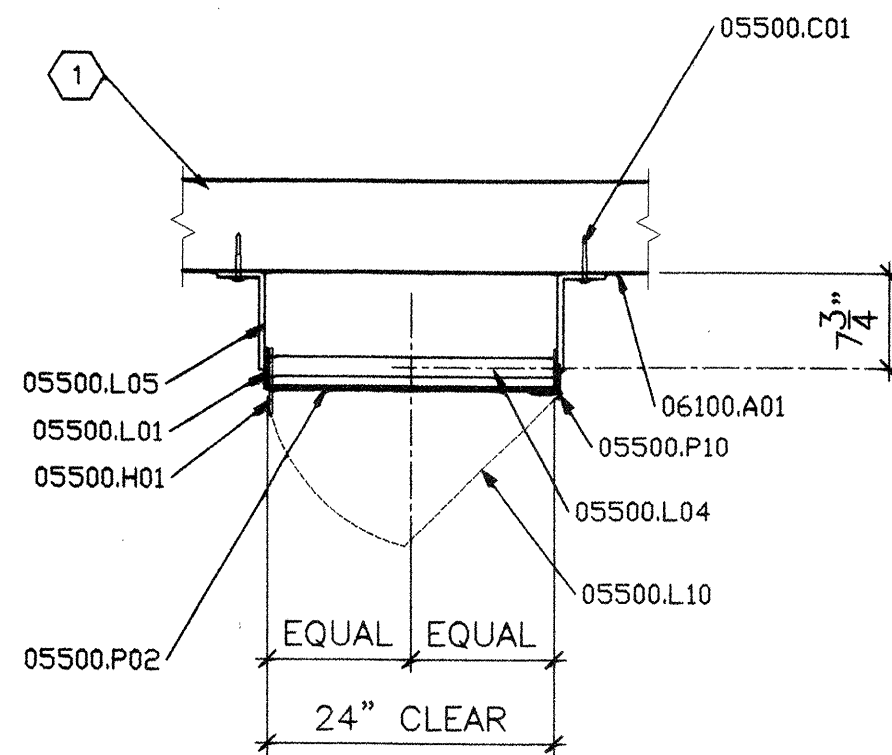
WINDOW SCHEDULE										XX
MARK	SIZE		EL	MATL	FINISH	DETAILS			FIRE RATING LABEL	NOTES
	WIDTH	HEIGHT				HEAD	JAMB	SILL		
A	4'-8"	4'-0"	A	HM	PAINT	1/15	2/15	1/15	-	-



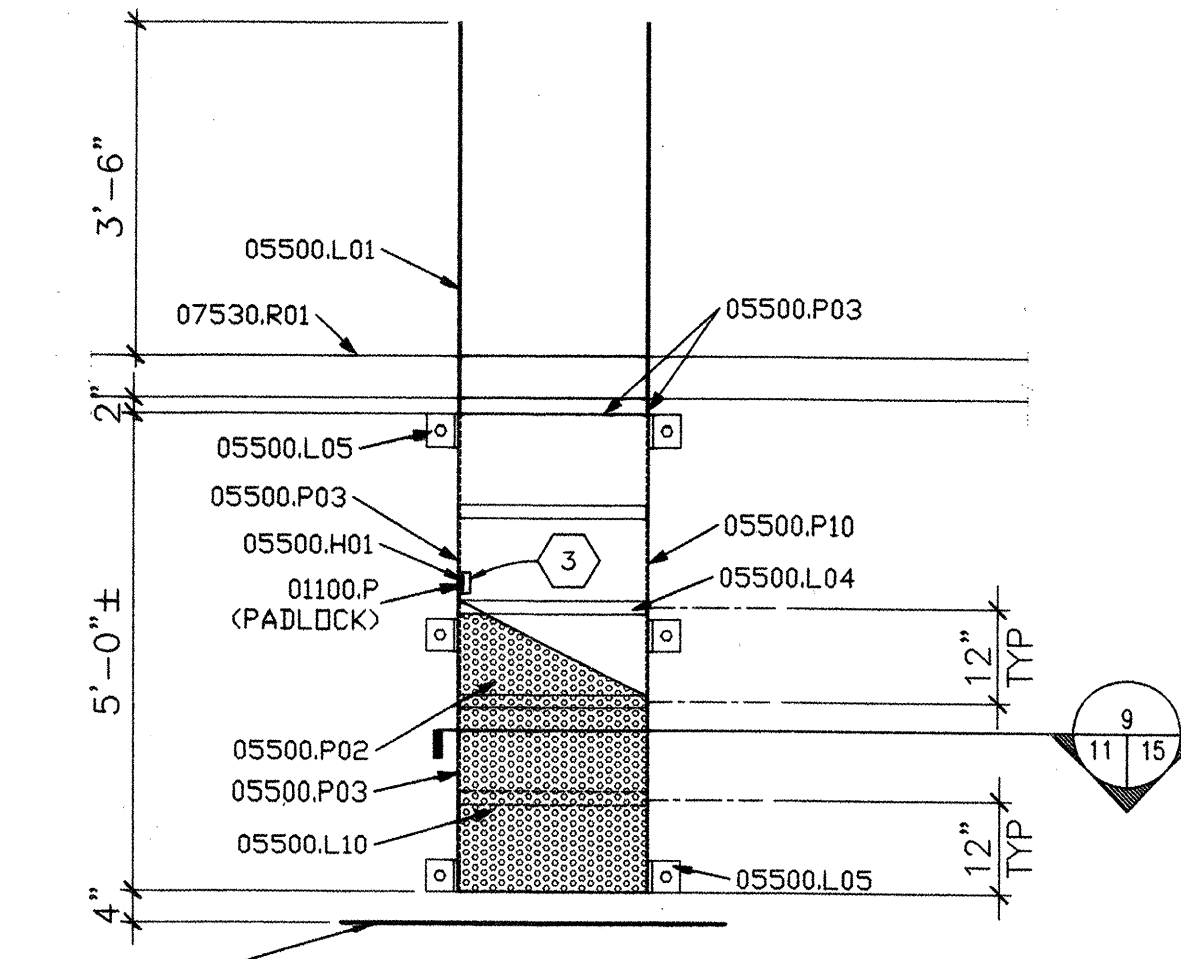
WINDOW ELEVATION
SCALE: 1/4" = 1'-0"

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

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



9 PLAN VIEW SECTION AT LADDER
3/4"=1'-0"

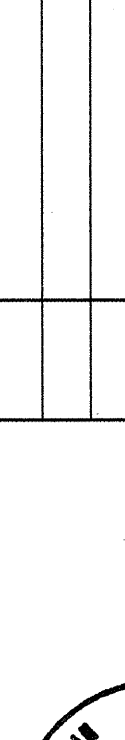


10 ELEVATION AT LADDER
1 1/2"=1'-0"

GENERAL SHEET NOTES: A) REFERENCE FINISH FLOOR ELEVATION = 100'-0" AND REFERENCES DATUM ELEVATION, SEE CIVIL DRAWINGS FOR DATUM. B) SOLID GROUT ALL CMU CELLS WITH REINFORCING - SEE STRUCTURAL.		REFERENCE KEYNOTES : DIVISION 1 - GENERAL DATA 01100.P OWNER FURNISHED, OWNER INSTALLED ITEM DIVISION 3 - CONCRETE 03300.J JOINT FILLER DIVISION 5 - METALS 05500.C01 CHEMICAL ANCHOR 05500.H01 HASP 05500.L01 LADDER SIDE RAILS 05500.L04 LADDER RUNGS 05500.L05 LADDER WALL BRACKET 05500.L10 LADDER SECURITY DOOR 05500.P02 PERFORATED METAL SHEET 05500.P03 PERFORATED METAL EDGING DIVISION 6 - WOOD & PLASTICS 06100.A01 APA RATED WALL SHEATHING DIVISION 7 - THERMAL & MOISTURE PROTECTION 07530.R01 ROOF PAVEMENT TERMINATION 07900.S SEALANT TYPE ES-1 07900.S01 SEALANT TYPE ES-2 DIVISION 8 - DOORS & WINDOWS 08110.F FRAME ANCHOR 08110.G GLAZING STOP 08110.M MORTAR GROUT GUARD 08110.S STEEL DOOR 08110.S01 STEEL FRAME 08331.A ANCHOR 08331.E EXTERIOR COILING DOOR 08331.G GUIDES 08331.H HOOD ENCLOSURE 08331.W WEATHERSTRIPPING 08710.D DRIP WEATHERSTRIP 08710.S SWEEP 08710.T THRESHOLD 08800.S SAFETY GLASS	
AS BUILT INFORMATION CONTRACTOR DATE WORK DATE STAMPED BY DATE FIELD ACCEPTANCE BY DATE FIELD CORRECTION BY DATE DRAWINGS DATE CORRECTED BY DATE RECORDED BY DATE NO.		BENCH MARKS DATE NO.	
SURVEY INFORMATION FIELD NOTES DATE NO.		SEALS DATE NO.	
SHEET KEYNOTES : 1. SEE STRUCTURAL FOR WALL CONSTRUCTION AND REINFORCING 2. SEE STRUCTURAL FOR SLAB AND FOUNDATION CONSTRUCTION 3. OWNER FURNISHED, OWNER INSTALLED PADLOCK.		REVISIONS BY DATE NO.	
HDR Engineering, Inc.		BERNALILLO COUNTY PUBLIC WORKS DIVISION TITLE: PAJARITO AREA VACUUM STATION WINDOW AND DOOR SCHEDULES AND DETAILS	
PROJECT NO. BC-PWD-21463 COA - 647292		MAP NO. Q-10, R-10 SHEET OF A-5 5	



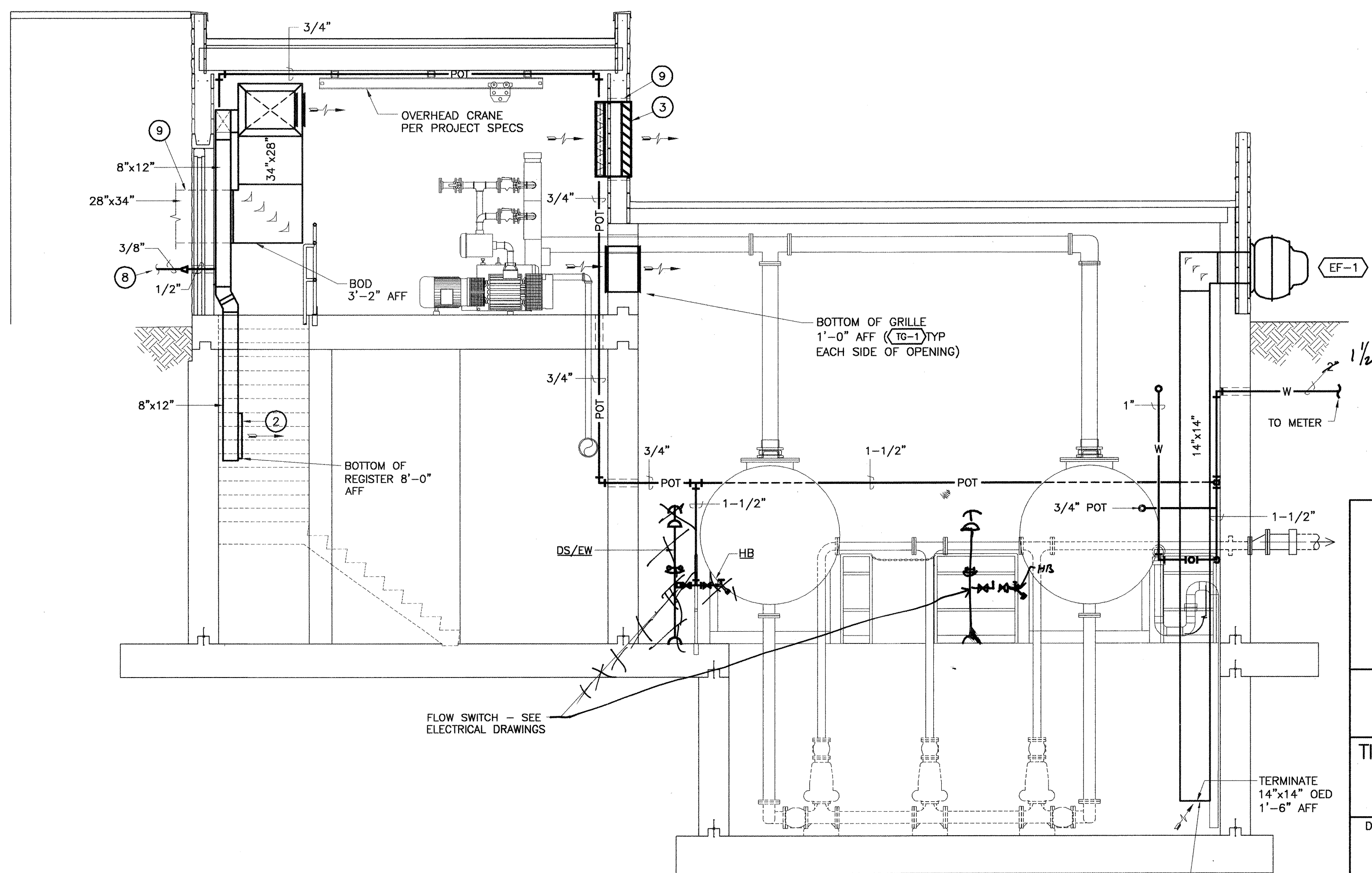
- SHEET 16 OF 25

ENGINEER'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
				NO.	BY	DATE		CONTRACTOR	DATE	
								WORK STAKED BY	DATE	
								INSPECTOR'S FIELD CHANGE BY	DATE	
								VERIFICATION BY	DATE	
								CORRECTED BY	DATE	
REVISIONS DESIGN				MICRO-FILM INFORMATION						
				DESIGNED BY	WFZ	DATE	NOV	2001	RECORDED BY	DATE
				DRAWN BY	RAG	DATE	NOV	2001	NO.	
CHECKED BY	WFZ	DATE	NOV	2001						

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



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



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

- A. ALL PIPES PENETRATING THE WALLS BELOW GRADE AND ANY FLOOR SLAB SHALL BE SEALED WITH LINK-SEAL.
- B. INSTALL TURNING VANES IN ALL DUCT ELBOWS.
- C. ALL PIPES PENETRATING BUILDING WALL, NOT ADJACENT TO EARTH, SHALL BE RUN IN A SLEEVE AND SEALED AROUND THE PIPE AND SLEEVE.

- ① **DL-1** 3,670 CFM, 42"x15" NECK.
- ② **SR-1** 500 CFM, 8"x24" NECK
- ③ **L-1** 10,510 CFM, 80"x40" NECK. INTERLOCK DAMPER WITH **EC-1**
- ④ **TG-1** 24"x24" NECK.
- ⑤ INSTALL THE EVAPORATIVE COOLER ON AN EQUIPMENT SUPPORT PER DETAIL 1/P-02A.
- ⑥ INTERLOCK THE MOTORIZED DAMPER WITH THE EVAPORATIVE COOLER BLOWER.
- ⑦ INSTALL A FLEXIBLE CONNECTOR WITH SUN SHIELD PER DETAIL 2/P-02A.
- ⑧ RUN A 1/2" WATER MAKE-UP LINE THRU THE WALL AT 24" ABOVE FINISHED GRADE, INSTALL A REDUCER AND RUN 3/8" WATER MAKE-UP LINES TO THE EVAPORATIVE COOLER FLOAT VALVE.
- ⑨ RUN THE DUCT THRU THE WALL IN A SLEEVE. SEAL AROUND THE DUCT AND SLEEVE.
- ⑩ MOUNT THERMOSTAT ON A 1" THICK, WOOD INSULATED BLOCK.
- ⑪ INSTALL THE BACK FLOW PREVENTER ON THE WALL AT 4'-0" ABOVE FINISHED FLOOR TO CENTER LINE OF THE ASSEMBLY.
- ⑫ INSTALL THE EVAPORATIVE COOLER PUMP SWITCH ON THE WALL WITH A "SUMMER" PLAQUE ABOVE AND A "WINTER" PLAQUE BELOW
- ⑬ MOUNT UNIT HEATER ON WALL AT 8'-0" AFF TO BOTTOM OF UNIT.
- ⑭ MOUNT UNIT HEATER ON WALL AT 10'-6" AFF TO BOTTOM OF UNIT.

[illegible]

2006/03/2002



HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE:	PAJARITO AREA VACUUM STATION MECHANICAL PLAN AND SECTIONS
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Design Review Committee		City Engineer Approval		Last Design Update	Mr./Msy/Yr.	
PROJECT NO.	TS - 01 - 13	MAP NO. Q-10, R-10	SHEET		OF	
	COA - 647291		P-02	3		

LOUVER PERFORMANCE DATA											
MARK NO.	LOCATION	LOUVER DIM WIDTH HEIGHT		CFM	MATERIAL	FINISH	FREE AREA SQ FT	WATER PENETRATION	SP DROP INS WC	UNIT ILLUSTRATED	REMARKS
LV-1	UPPER LEVEL	24"	24"	1000	ALUM	SEE SPEC SECT 15890	1.88	0	0.05	RUSKIN ELF 375	

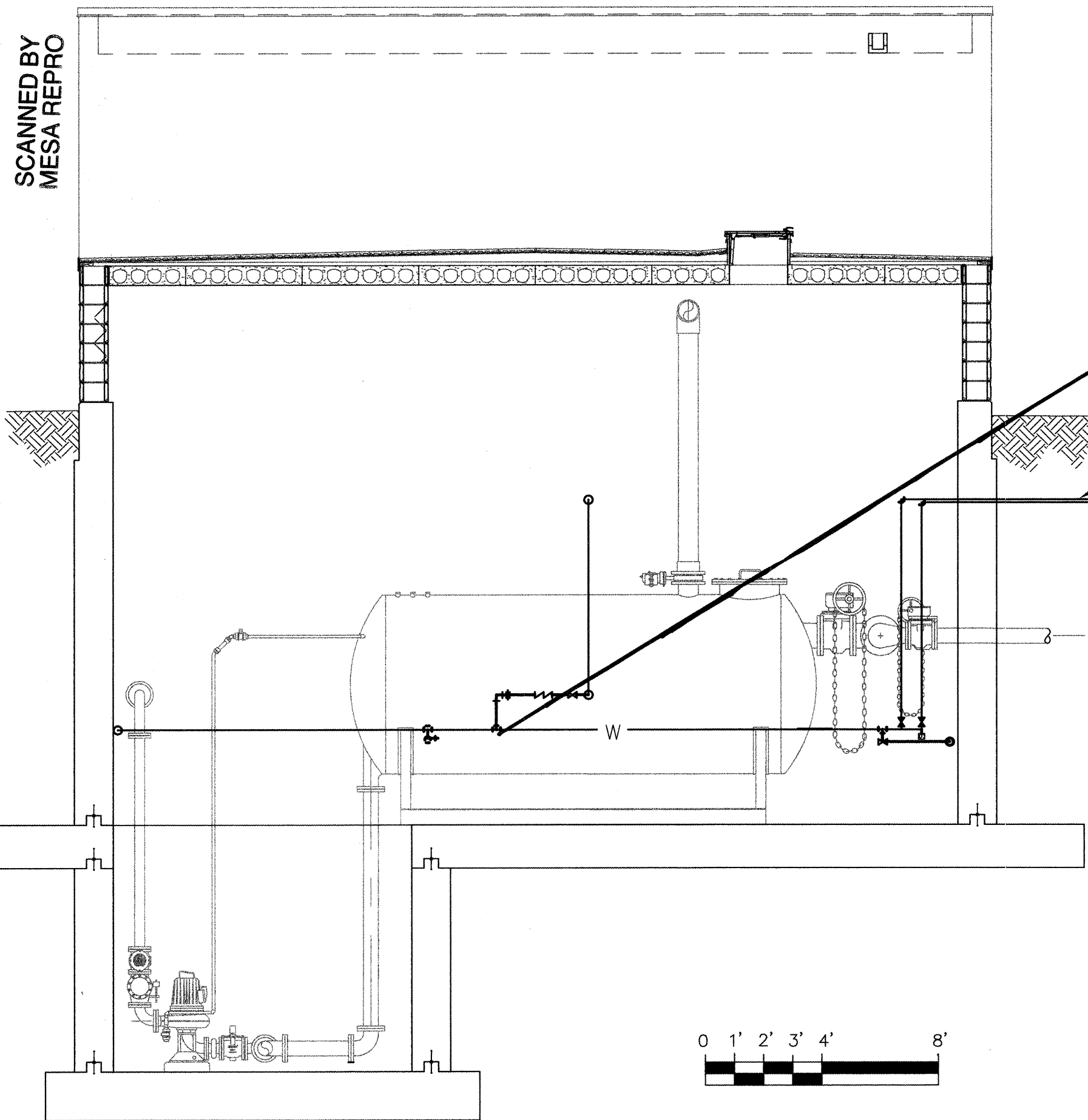
DAMPER PERFORMANCE DATA								
MARK NO.	LOCATION	DIMENSION		TYPE OPENING	SERVES	TYPE SERVICE	UNIT ILLUSTRATED	REMARKS
		WIDTH	HEIGHT					
MD-1	UPPER LEVEL	24"	24"	WALL	EF-1	INTAKE	RUSKIN CD-50	
MD-2	UPPER LEVEL	12"	12"	WALL	EF-1	INTAKE	RUSKIN CD-50	

DIFFUSERS, REGISTERS AND GRILLES PERFORMANCE DATA									
MARK NO.	MOUNTING	TYPE	MAX SP INS WC	MAX NC	SIZE	MATERIAL	UNIT ILLUSTRATED	ACCESSORIES	REMARKS
R-1	EXPOSED DUCT	SUPPLY	0.03	25	AS SHOWN	ALUM	ANEMOSTAT X2HO	OPPOSED BLADE DAMPER	
G-1	WALL	TRANSFER	0.03	25	AS SHOWN	ALUM	ANEMOSTAT X3HS	--	

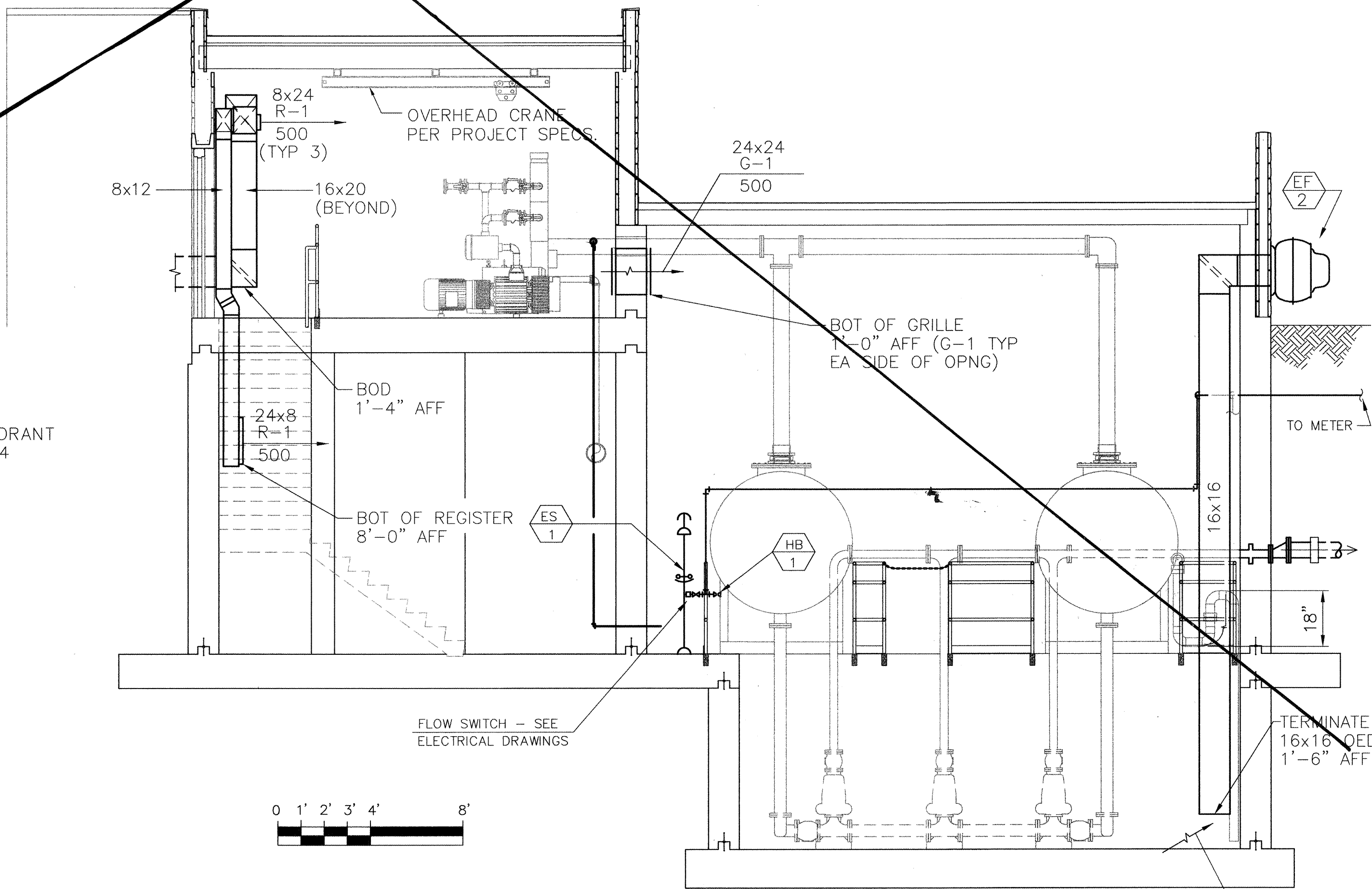
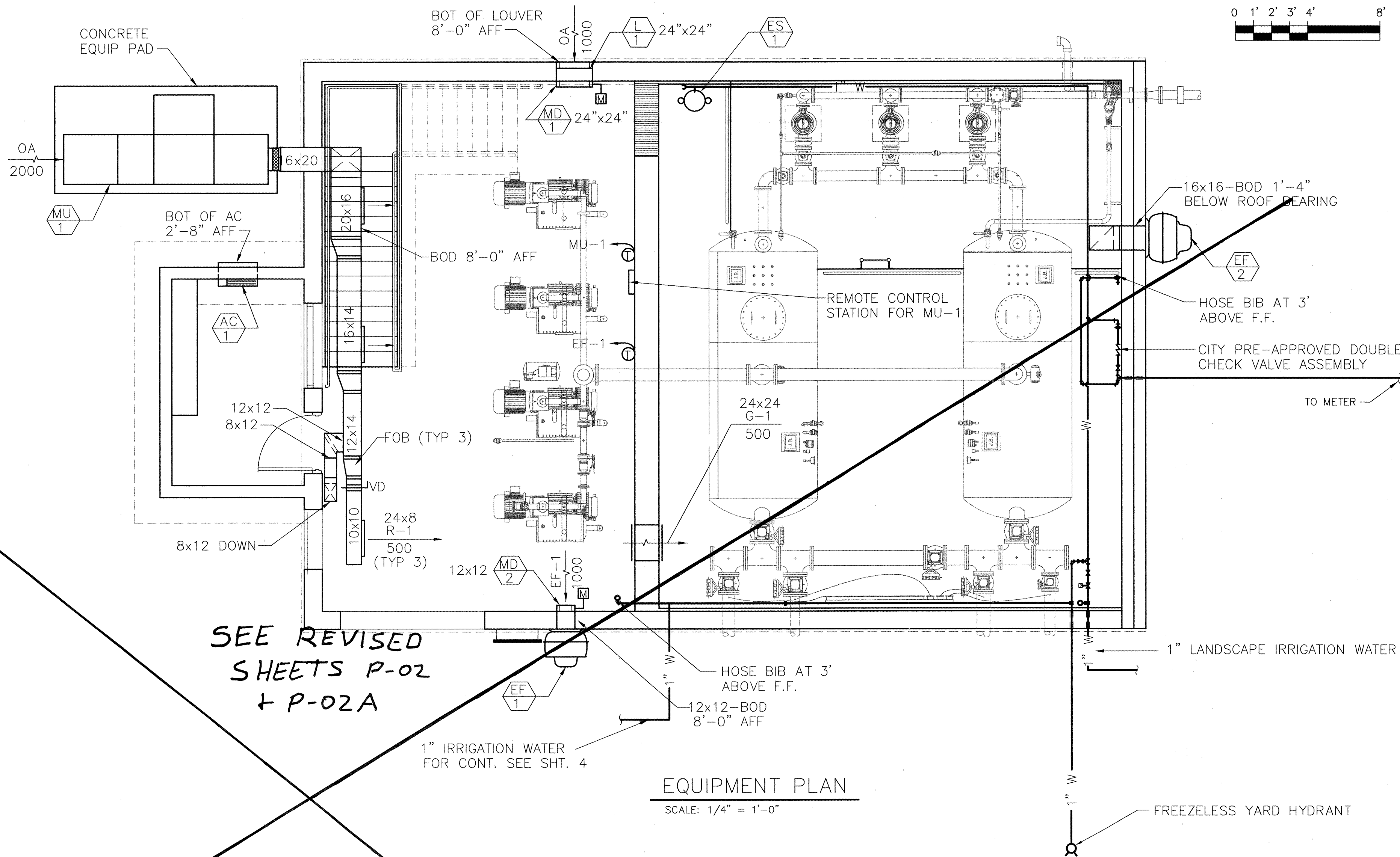
FAN PERFORMANCE DATA											
MARK NO.	LOCATION	TYPE	CFM	SP. DROP INS. WC	RPM	STATIC EFF. %	MOTOR		UNIT ILLUSTRATED	REMARKS	
EF-1	UPPER LEVEL	WALL MOUNTED CENTRIFUGAL	1000	0.375	982	49	0.167	115	1	LOREN COOK ACW 135W 2B	SPARK-RESISTANT CONSTRUCTION
EF-2	LOWER LEVEL	WALL MOUNTED CENTRIFUGAL	2000	0.375	920	45	0.33	115	1	LOREN COOK ACW 165W 4B	SPARK-RESISTANT CONSTRUCTION

ELECTRIC MAKE-UP AIR UNIT PERFORMANCE DATA												
MARK NO.	LOCATION	CFM	CAPACITY KW	TEMP. RISE °F	STAGES	MOUNTING	EXTERNAL SP IN WC	MOTOR			UNIT ILLUSTRATED	REMARKS
								HP	VOLTS	PH		
MU-1	OUTSIDE CONTROL RM	2000	40	70	4	CONCRETE EQUIP PAD	0.375	1	460	3	HASTINGS SBE-112	W/ INTAKE HOOD, INTAKE DAMPER & FILTER BOX

PACKAGED TERMINAL AIR CONDITIONING UNIT									
MARK NO.	LOCATION	EER	CAPACITY BTUH	SUCTION TEMP DEG F	AMBIENT TEMP DEG F	ELECTRICAL AMPS VOLTS PH	REFRIG	UNIT ILLUSTRATED	REMARKS
AC-1	CONTROL ROOM	9.5	6000	45	95	5.7 115 1	R-22	GENERAL ELECTRIC AJCS06CLA	



BUILDING SECTION AT LOWER LEVEL LOOKING SOUTH
SCALE: 1/4" = 1'-0"



BUILDING SECTION AT LOWER LEVEL LOOKING EAST
SCALE: 1/4" = 1'-0"

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
MECHANICAL PLAN
AND SECTIONS

DESIGN REVIEW COMMITTEE
SEP 11 2002

CITY ENGINEER APPROVAL
SEP 12 2002

PROJECT NO. TS - 01 - 13
COA - 647291

MAP NO. Q-10, R-10

SHEET P-02 OF 3

DESIGNED BY WfZ
DRAWN BY RAG
CHECKED BY WfZ

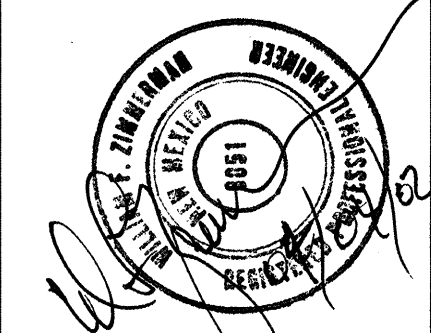
DATE NOV 2001
DATE NOV 2001
DATE NOV 2001

NO. DATE

REVISIONS
DESIGN

BY

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	WORK	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE	INSPECTOR	DATE
ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE
VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE	VERIFICATION BY	DATE
DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE	DRAWINGS	DATE
RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE	RECORDED BY	DATE
NO.		NO.		NO.		NO.		NO.		NO.		NO.		NO.	

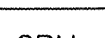
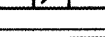
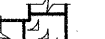
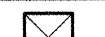
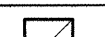


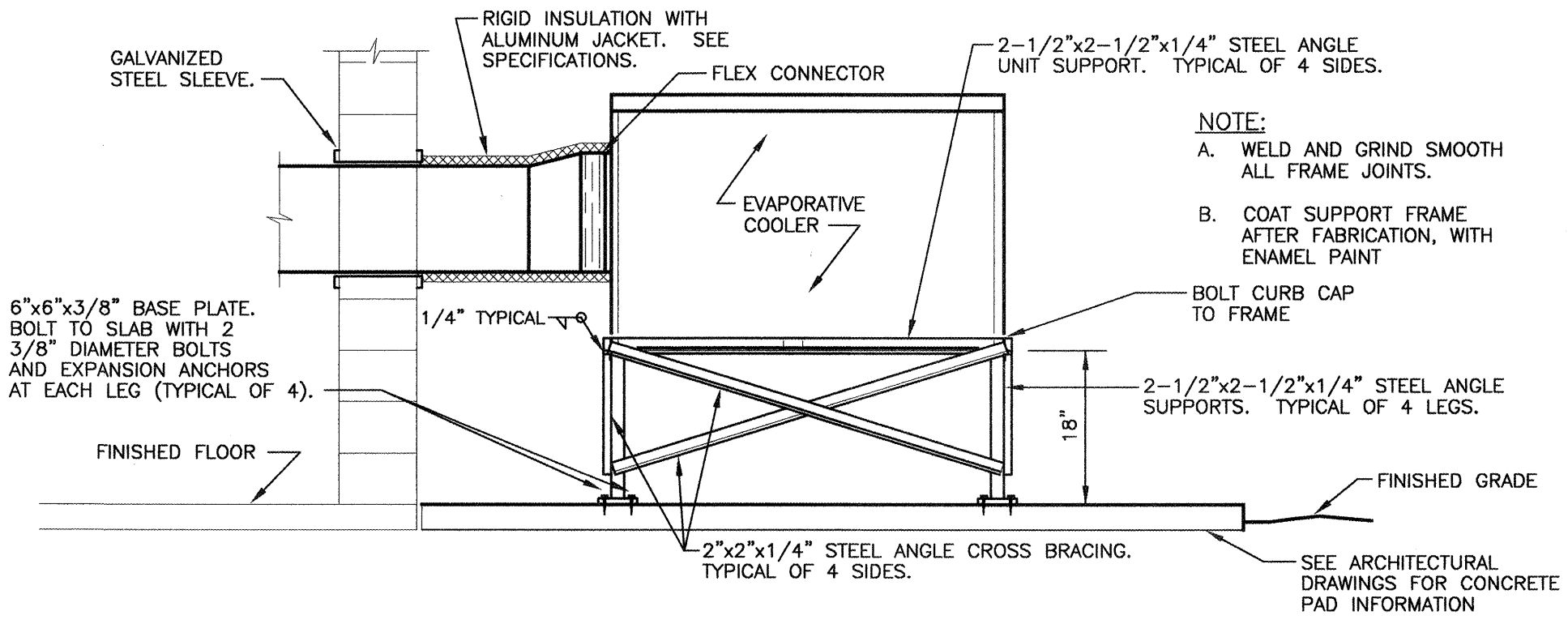
EQUIPMENT SCHEDULE																				
SYMBOL	DESCRIPTION																			
EC-1	EVAPORATIVE COOLER: Industrial, side discharge, evaporative cooler consisting of a fan section, and two direct cooling sections. All metal parts except blower shaft and pulley shall be fabricated from hot-dipped galvanized steel. All of the steel components except for the fan shall be chemically treated and covered with an electrostatically applied polyester-epoxy power-based finish. Fan shall be mounted to a solid steel shaft riding on permanently lubricated, sealed, pillow block ball bearings. Blower drive shall have adjustable sleeves. Each direct cooling section shall consist of 12" thick Celedex media, sump, water distribution system and inlet louver. Unit shall be furnished with high efficiency blower motor, water bleed-off kit, low voltage T-stat with subbase, all required relays, clear locking guard, disconnect, and a 24 VAC relay for control of relief dampers. Model numbers are Arvin. <table><tr><th>Symbol</th><th>Model</th><th>CFM</th><th>ESP</th><th>H.P.</th><th>Volt/Phase</th><th>Weight</th></tr><tr><td>EC-1</td><td>MS625/DM120(2)</td><td>11,510</td><td>0.60"</td><td>5</td><td>480/3</td><td>950 lbs.</td></tr></table>						Symbol	Model	CFM	ESP	H.P.	Volt/Phase	Weight	EC-1	MS625/DM120(2)	11,510	0.60"	5	480/3	950 lbs.
Symbol	Model	CFM	ESP	H.P.	Volt/Phase	Weight														
EC-1	MS625/DM120(2)	11,510	0.60"	5	480/3	950 lbs.														
UH-1 and UH-2	ELECTRIC UNIT HEATER: Horizontal air flow unit heater complete with 18 gauge steel cabinet with baked enamel finish, individually adjustable louvers, wall mounting bracket, draw thru unit, metal sheath aluminum-finned heating elements, automatic reset thermal over-heat protection, inlet louvers, totally enclosed, all angle motor with built-in thermal overload protection, propeller fan, 24 volt control transformer, relays, remote wall thermostat, power disconnect switch, branch circuit fusing. Berko, model IHUAA-748, 7.5 KW, 480 Volt/3 Phase, 60 HZ., 650 CFM, 18 ft. throw. Operating weight 53 lbs.																			
AC-1	ROOM AIR CONDITIONING UNIT: Thru-the-wall, direct expansion, cooling only unit with three-speed fan, unit mounted thermostat, easy-access air filter, installation kit, six-way air flow control and exhaust control. Power is 120 Volt/1 Phase. Cooling capacities are based on ARI standards. Model numbers are General Electric. <table><tr><th>Symbol</th><th>Model</th><th>Cooling Cap. (MBtu/h)</th><th>CFM</th><th>Amps</th><th>Weight</th></tr><tr><td>AC-1</td><td>AJCS06CLA</td><td>6,000</td><td>250</td><td>5.7</td><td>123 lbs.</td></tr></table>						Symbol	Model	Cooling Cap. (MBtu/h)	CFM	Amps	Weight	AC-1	AJCS06CLA	6,000	250	5.7	123 lbs.		
Symbol	Model	Cooling Cap. (MBtu/h)	CFM	Amps	Weight															
AC-1	AJCS06CLA	6,000	250	5.7	123 lbs.															
EF-1	EXHAUST FAN: Belt driven centrifugal wall exhauster with backward curved non-overloading aluminum wheel and hub, statically and dynamically balanced, with heavy gauge aluminum hood, housing and base. Motor shall be continuous duty type with permanently lubricated double sealed ball bearings. Furnish complete with backdraft damper, birdscreen, heavy duty cast iron adjustable drive pulley, and mounting base. External aluminum wiring post shall be completely factory assembled and wired to junction box. Power is 120 Volt/1 Phase. Model numbers are Loren Cook. <table><tr><th>Symbol</th><th>Model</th><th>CFM</th><th>ESP</th><th>RPM</th><th>H.P.</th><th>Operating Weight</th></tr><tr><td>EF-1</td><td>ACW135W2B</td><td>1,000</td><td>0.375"</td><td>982</td><td>1/4</td><td>95 lbs.</td></tr></table>						Symbol	Model	CFM	ESP	RPM	H.P.	Operating Weight	EF-1	ACW135W2B	1,000	0.375"	982	1/4	95 lbs.
Symbol	Model	CFM	ESP	RPM	H.P.	Operating Weight														
EF-1	ACW135W2B	1,000	0.375"	982	1/4	95 lbs.														
SR-1	SUPPLY REGISTER: Price series 620DAL double deflection extruded aluminum supply grille with individually adjustable vanes on 3/4" centers. Furnish with an aluminum opposed blade balancing damper, and a factory applied white enamel finish.																			
DL-1	DRUM PUNKAH: Price series HCD drum louvers with opposed blade damper, drum, frame and adjustable vanes shall be extruded aluminum construction with white baked enamel finish, felt seals, and flange sponge rubber gasket.																			
TC-1	TRANSFER GRILLE: Price series 630 extruded aluminum transfer air grille with stationary vanes set at 45° angle on 3/4" centers. Furnish with a factory applied white baked enamel finish.																			
L-1	LOUVER: Airlite type K630, 4" deep, extruded aluminum stationary louver with 30° blades set on 3" centers. The entire unit shall be assembled by welding. Furnish complete with interior 1/4" mesh aluminum birdscreen, baked Kynar 500 finish (color selected by architect) and flat flange frame. Furnish louvers with extruded aluminum parallel blade, motor operated dampers with tight seal package and a two-position, spring return 24 VAC Phase motor operator.																			

EQUIPMENT SCHEDULE			
SYMBOL	DESCRIPTION		
MD-1	MOTORIZED DAMPER: Extruded aluminum parallel blade dampers with tight seal package, bronze bearing, external linkage and two position normally closed, outdoor installed, motor operator. Dowco model ARM. Power is 24 VAC Phase.		
LQD-1	MANUAL DAMPER: Extruded aluminum opposed blade dampers with bronze bearing, external linkage and locking quadrant. Dowco model ARM.		
DS/EW	DRENCH SHOWER/EYEWASH: Floor mounted, drench shower/eyewash. Shower shall have a 10"Ø plastic shower hood and a 1" IPS stay-open ball valve operated by a stainless steel push flag handle. Eyewash shall come complete with 11"Ø stainless steel bowl, chrome plated brass yoke assembly with twin aerated heads and chrome plated 1" IPS stay-open ball valve, operated by a stainless steel push flag handle. HAWS model 8309WC. Trap ---- Vent ---- CW 1-1/4" HW ----		
YHY	YARD HYDRANT: Zurn model Z-1385 exposed, non-freeze yard hydrant with bronze casting, cast aluminum casing guard all bronze interior parts and non-turning operating rod with free-floating compression closure valve with 1" connection. Furnish complete with operating key lock. Trap ---- Vent ---- CW 1" HW ----		
HB	HOSE BIBB: 3/4" flanged female inlet, 3/4" hose thread outlet, lock shield cap, tee handle and rough or polished chrome plate finish. Chicago Faucet No. 387. Furnish with vacuum breaker. Trap ---- Vent ---- CW 1/2" HW ----		
BFP	BACKFLOW PREVENTER: Reduced pressure principle backflow preventer with pressure differential relief valve located between two positive seating check valves. The assembly shall consist of two full port ball valves before and after the device, two unions, test cocks and an up-stream protective strainer. The unit shall have a bronze body, stainless steel check seats and stainless steel relief valve seats. Watts model U909-S-QT rated for 140° F and 175 psi pressure. The 1-1/2" unit shall be capable of flowing 48 gpm with a 10 psi pressure drop. Furnish with a model 909AG series air gap.		

Note:

MODEL NUMBERS GIVEN ARE TO ESTABLISH THE MINIMUM REQUIREMENTS OF THE EQUIPMENT SPECIFIED. IF, IN THE OPINION OF THE CONTRACTOR, AN ALTERNATE ITEM EQUALS OR EXCEEDS THE ITEM SPECIFIED, LITERATURE AND/OR SAMPLES SUBSTANTIATING THIS CLAIM SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR APPROVAL.

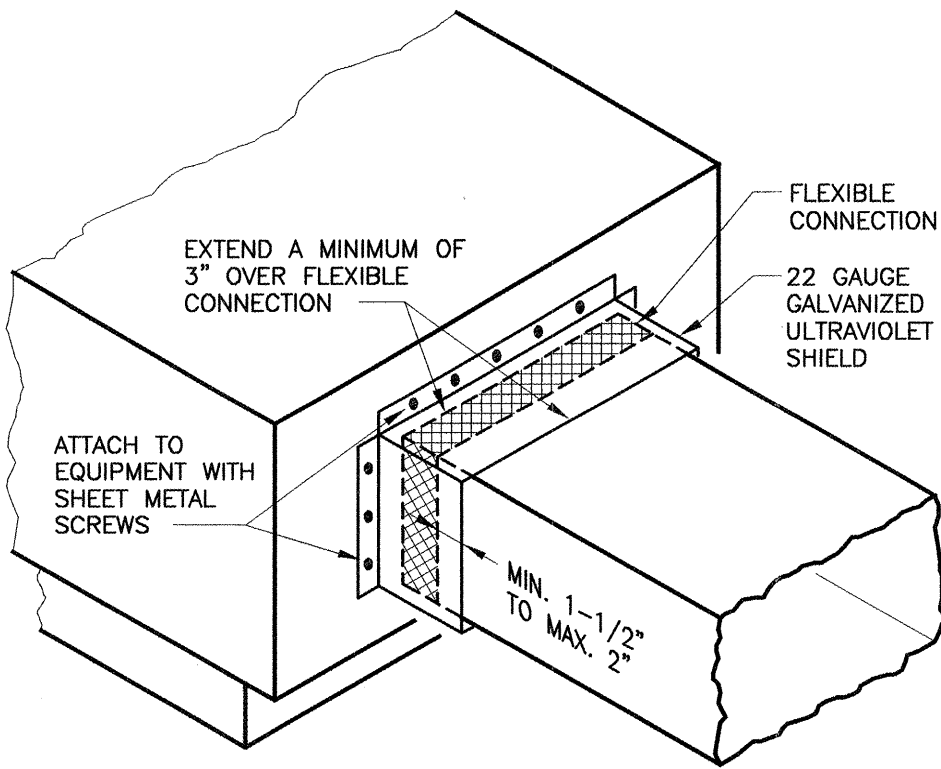
SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	POTABLE WATER LINE
	WATER LINE (EXTERIOR)
CFM	CUBIC FEET PER MINUTE
ESP	EXTERNAL STATIC PRESSURE
PSI	POUNDS PER SQUARE INCH
GPM	GALLONS PER MINUTE
	BALANCING DAMPER
	FLEX CONNECTION
	SUPPLY DUCT, SECTION
	RETURN OR EXHAUST DUCT, SECTION
	TURNING VANES
	SURFACE MOUNTED SUPPLY GRILLE
	SURFACE MOUNTED RETURN OR EXHAUST GRILLE
	ELECTRIC THERMOSTAT
	BALL VALVE
	UNION
	CHECK VALVE
	WYE STRAINER
	GAUGE WITH GAUGE COCK
	RISE IN PIPING
	DROP IN PIPING
	VALVE IN RISE OR DROP

[illegible]

Equipment Support Frame Detail

NO SCALE

1
P-02,



Ultraviolet Shield Detail

NO SCALE

2
P-02

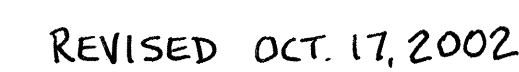
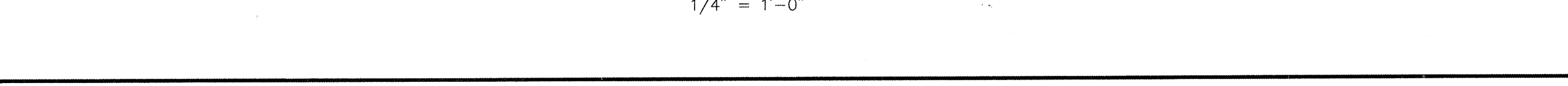
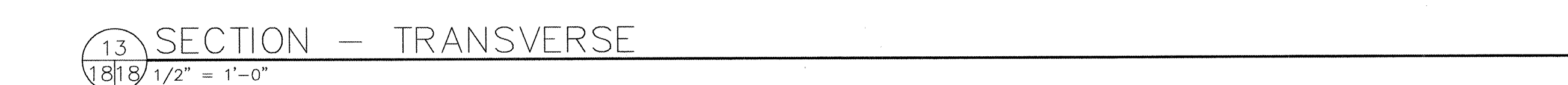
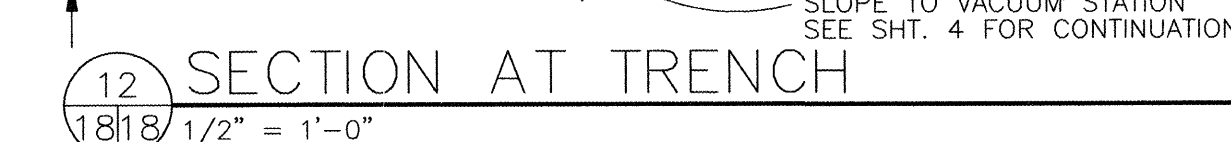


HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
MECHANICAL EQUIPMENT SCHEDULE,
SYMBOLS LEGEND, AND DETAILS

Design Review Committee		City Engineer Approval		<u>Mr./Day/Yr.</u> <u>Mr./Day/Yr.</u> 	
				Last Design Update	
PROJECT NO.		MAP NO.		SHEET OF	
TS - 01 - 13 COA - 647291		Q-10, R-10		P-02A 3	

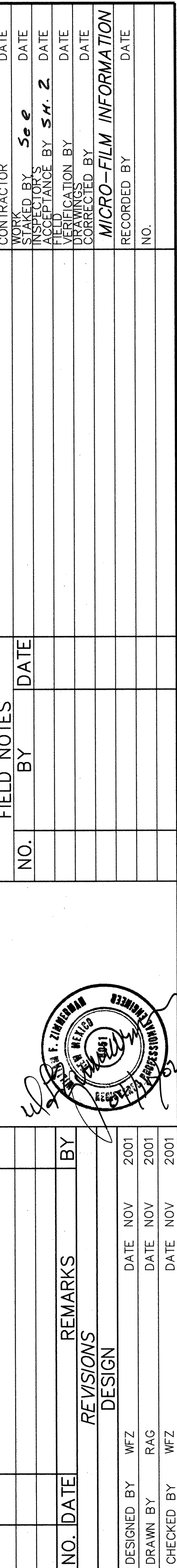


GENERAL SHEET NOTES :

- A) FOR PIPE SIZES AND LOCATIONS, SEE EQUIPMENT PLAN, SECTIONS AND DETAILS.
- B) COMPOST AIR FILTER LOCATION SHALL BE SITE PLAN.
- C) REFER TO GENERAL NOTES ON SHEET 2 FOR CONCRETE AND CONCRETE REINFORCEMENT INFORMATION.
- D) REFER TO SHEET 2 FOR TYPICAL CONCRETE CORNER DETAILS.
- E) REFER TO SHEET 2 FOR ADDITIONAL REINFORCEMENT AT TYPICAL CONCRETE WALL PENETRATION.

SHEET KEYED NOTES • 

- 1) GRATING TYPE 2
- 2) ALUMINUM ANGLE - DOUBLE L 3 x 3 x 1/2, BACK TO BACK WITH SPACER BAR - 1/4 x 2, 2 1/2 x 2 1/2 AT 12" O.C. MAXIMUM BETWEEN AND AT EACH ENDS, PROVIDE 1/16" THICK NEOPRENE GASKET AT ALL ANGLE TO CONCRETE BEARING LOCATIONS
- 3) CAST-IN-PLACE CONCRETE PLENUM SLAB - 1"-0" THICK MINIMUM
- 4) CAST-IN-PLACE RAMP SLAB - 8" THICK
- 5) PROVIDE CHEMICAL ANCHORS - STAINLESS STEEL, TREADED ROD 1/2" DIAMETER x 4" LONG W/ 3" EMBEDMENT EACH ANGLE AT CONCRETE BEARING



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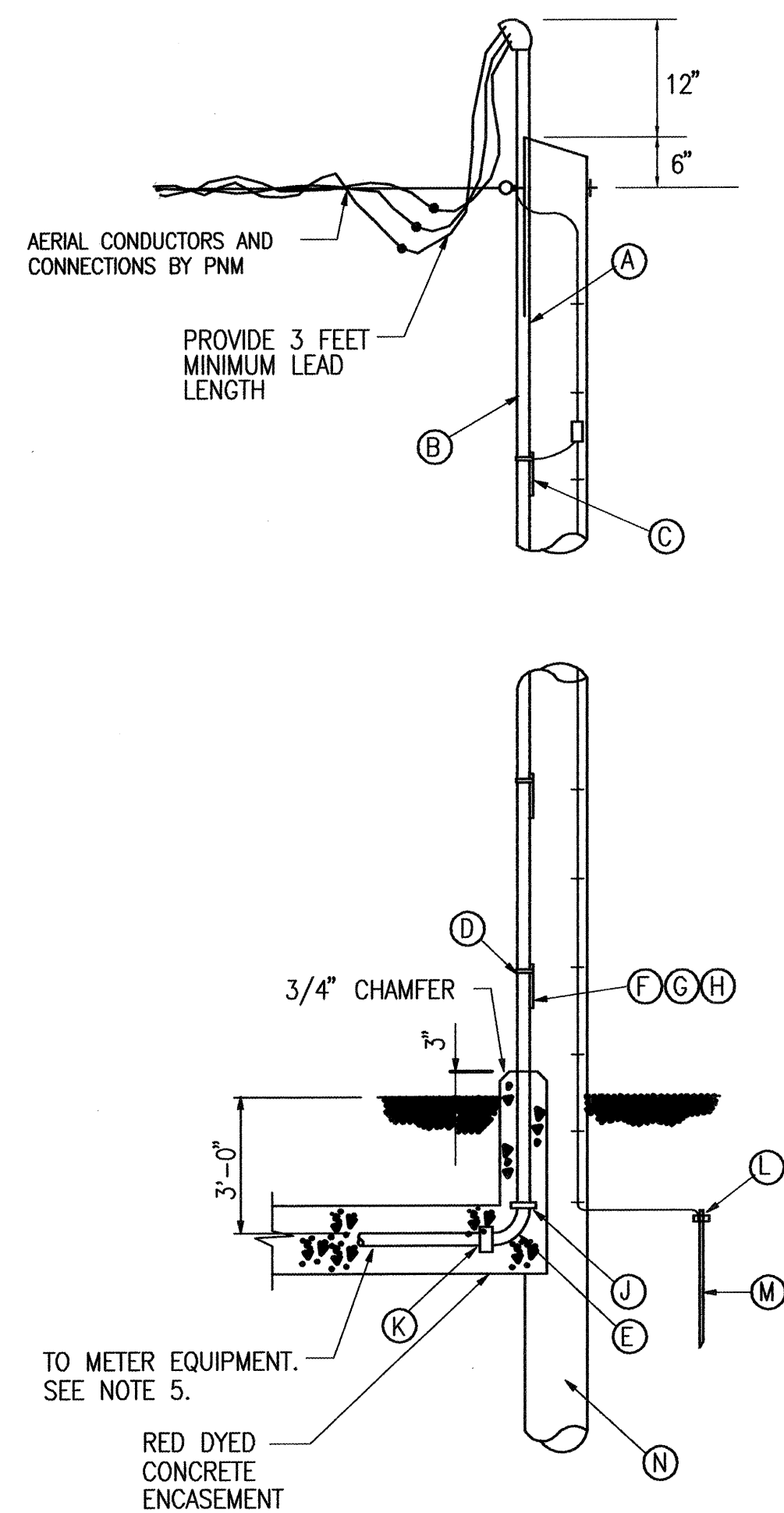
BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE:	PAJARITO AREA VACUUM STATION COMPOST FILTER PLAN, SECTIONS, & DETAILS
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Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
SEP 11 2002	SEP 12 2002		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		

PROJECT NO.	TS - 01 - 13 COA - 647291	MAP NO. Q-10, R-10	SHEET P-03	OF 3
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SCANNED BY
MESA REPRO



SERVICE RISER POLE DETAIL
NOT TO SCALE

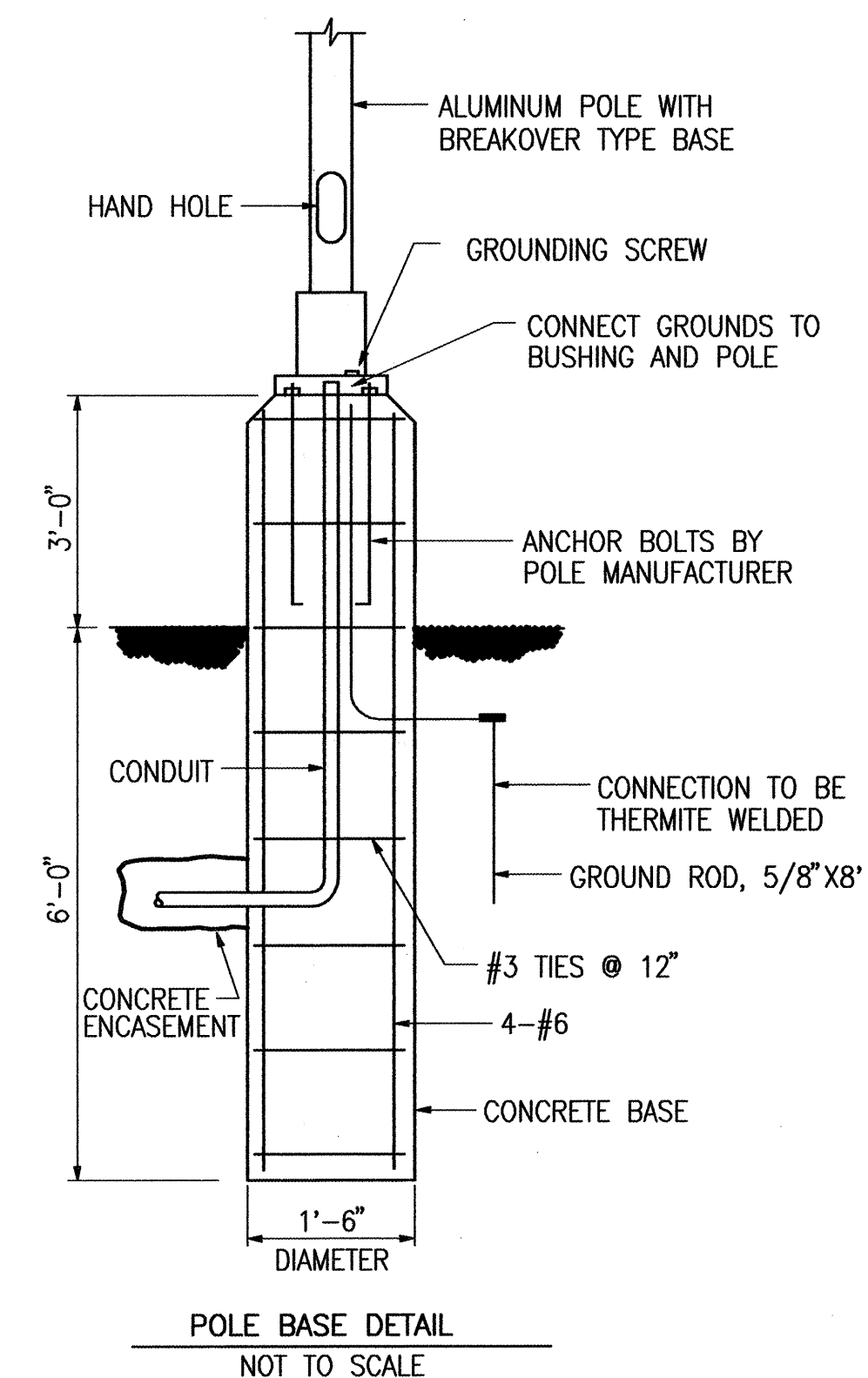
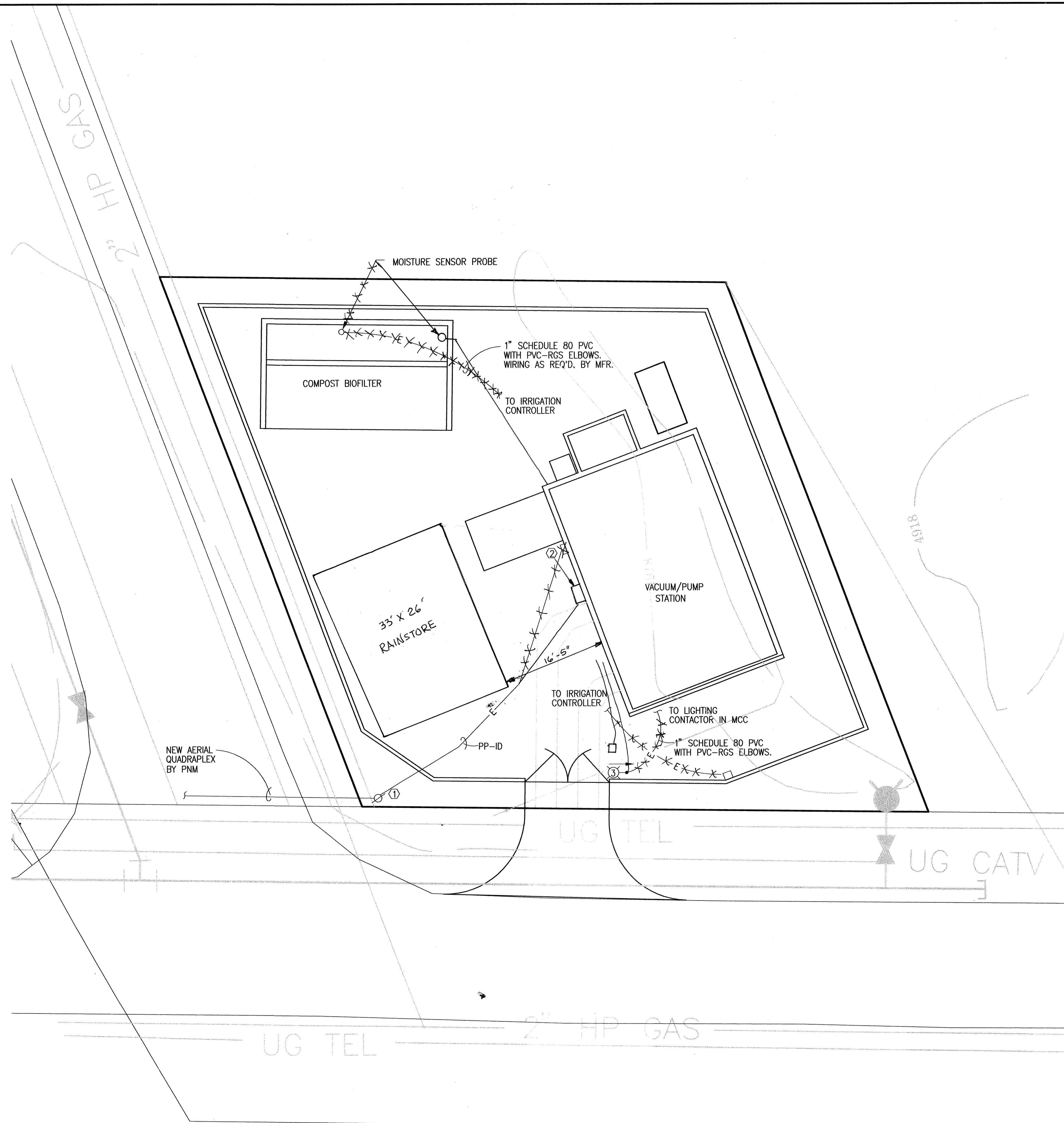
MATERIAL LIST	
ITEM	DESCRIPTION
A	CLAMP TYPE WH
B	GALVANIZED CONDUIT
C	UNIVERSAL SUPPORT BRACKET
D	PIPE STRAP KIT
E	PVC COATED RIGID METAL ELBOW
F	5/8" X MACHINE BOLT
G	5/8" LOCK NUT
H	2-1/4" SQ. WASHER
J	COUPLING
K	STEEL TO PLASTIC ADAPTOR
L	#10-#2 GROUND LUG
M	3/4" X 10' COPPERCLAD GROUND ROD
N	WOOD POLE, 35' CLASS 5

NOTES:

- WEATHERHEAD SHALL BE 3" ABOVE NEUTRAL.
- RISER BRACKET ASSEMBLY MUST HAVE PROVISIONS FOR GROUNDING.
- CONTACT MR. SEAN GOVER (246-7744) OF PNM FOR UTILITY CONTACT PERSON.
- ALL ABOVE-GRADE CONDUIT SHALL BE RIGID GALVANIZED OR IMC.
- CONTRACTOR PROVIDES AND INSTALLS: POLES, CONDUIT, BRACKET, WEATHERHEAD, CONDUCTORS, METER BASE(S), METERING INSTRUMENT TRANSFORMER ENCLOSURE AND ALL MINOR FITTINGS.

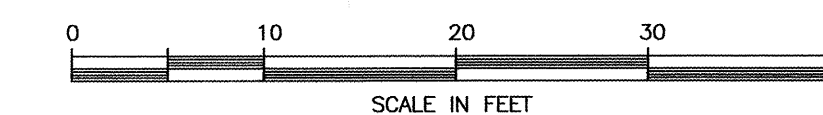
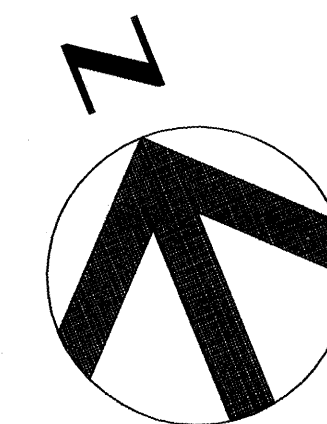
REFERENCES TO PNM STANDARDS

- (1) SEE DS-4-95 UNDERGROUND COMMERCIAL CUSTOMER OWNED SERVICE.
SEE DS-18-13.0 UNIVERSAL SUPPORT BRACKET.
SEE DS-18-20.1 GROUND ASSEMBLY.



SPECIFIC NOTES:

- PROPOSED LOCATION OF SERVICE RISER POLE. SEE DETAIL THIS SHEET.
- LOCATION OF METERING EQUIPMENT.



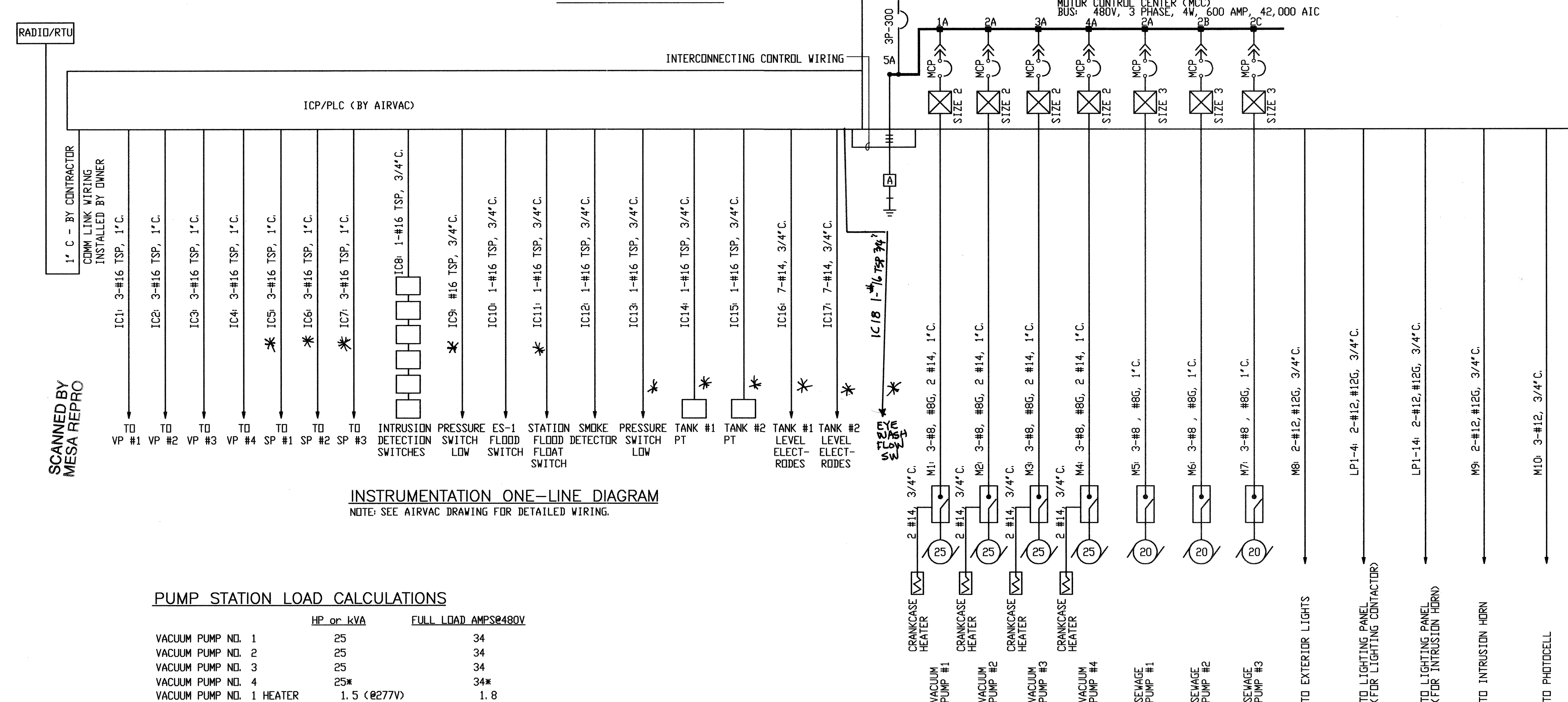
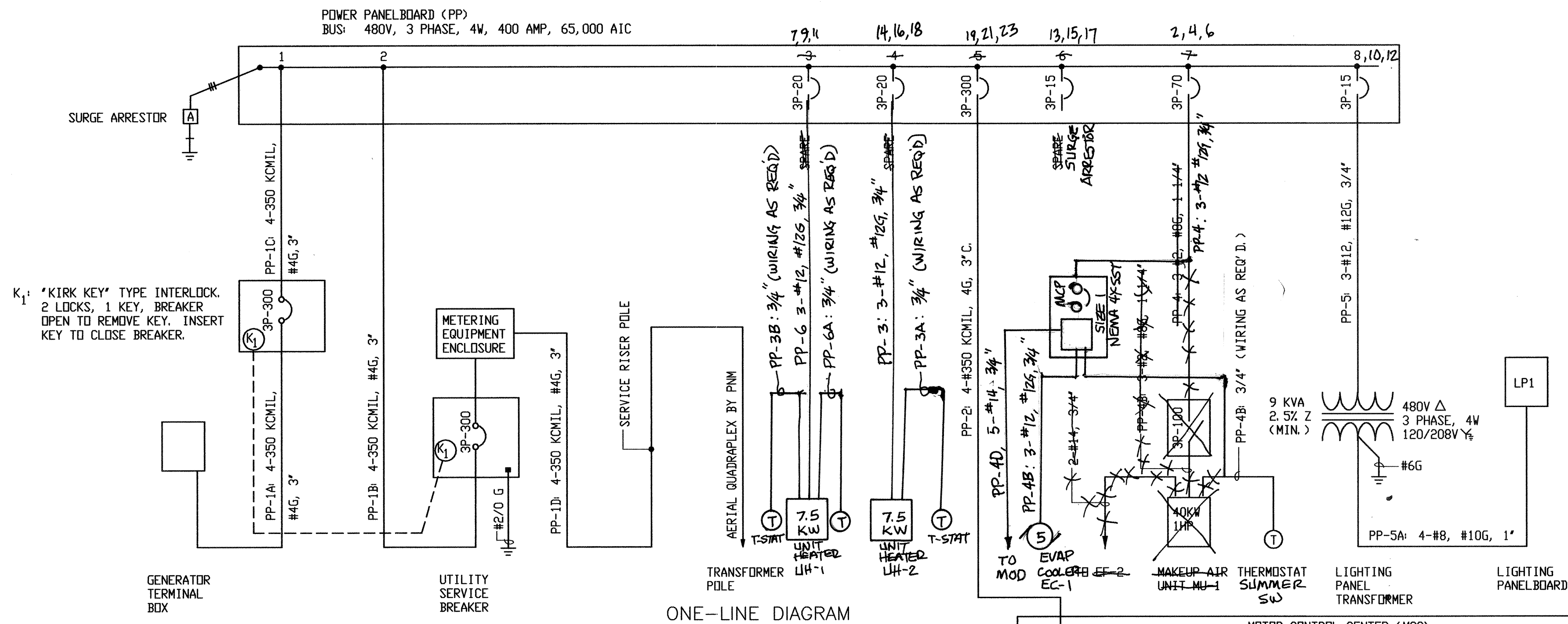
HDR

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
ELECTRICAL SITE LAYOUT

Design Review Committee		City Engineer Approval		Last Design Update		No. / Rev. / Date	
APPROVED	SEP 11 2002	APPROVED	SEP 12 2002				
PROJECT NO.	TS - 01 - 13 COA - 647291	MAP NO.	Q-10, R-10	SHEET	OF		
				E-02	6		



PUMP STATION LOAD CALCULATIONS

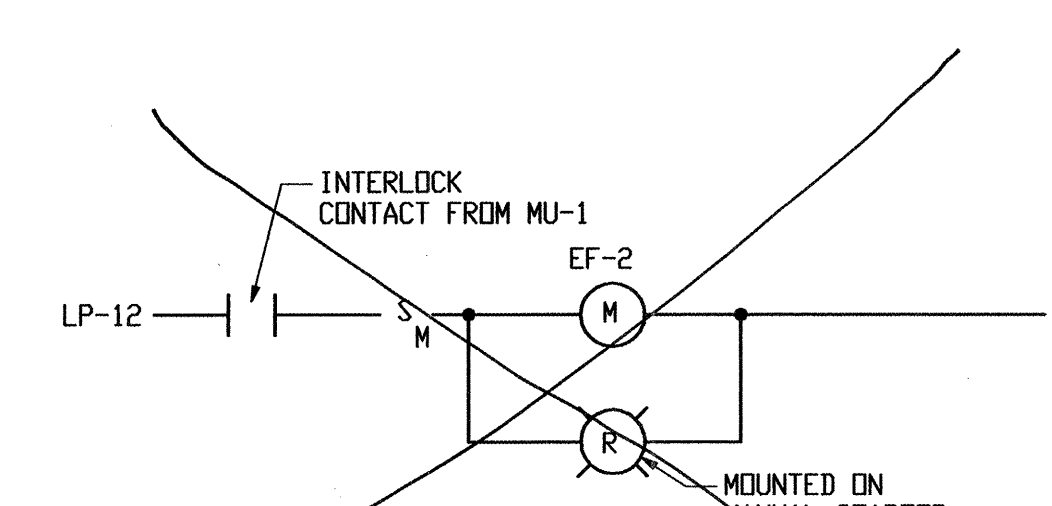
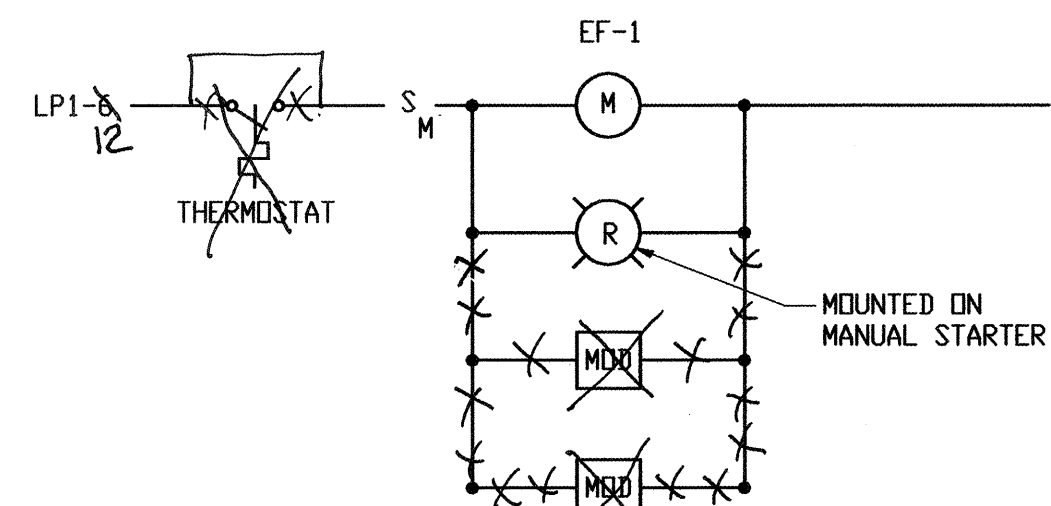
HP or kVA	FULL LOAD AMPS @ 480V
VACUUM PUMP NO. 1	25
VACUUM PUMP NO. 2	25
VACUUM PUMP NO. 3	25
VACUUM PUMP NO. 4	25*
VACUUM PUMP NO. 1 HEATER	1.5 (2277V)
VACUUM PUMP NO. 2 HEATER	1.5 (2277V)
VACUUM PUMP NO. 3 HEATER	1.5 (2277V)
VACUUM PUMP NO. 4 HEATER	1.5* (2277V)
SEWAGE PUMP NO. 1	20
SEWAGE PUMP NO. 2	20
SEWAGE PUMP NO. 3	20*
MAKEUP AIR UNIT MU-1	40.75
LIGHTING TRANSFORMER	9
SUBTOTAL LOAD	145.5
25 % LARGEST LOAD	6.2
TOTAL LOAD - AMPS	151.7

* - DENOTES DEDICATED SPARE AND IS NOT COUNTED IN LOAD CALCULATIONS

HP or kVA	FULL LOAD AMPS @ 480V
UNIT HEATER NO. 1	7.5 KW
UNIT HEATER NO. 2	7.5 KW
EVAP. COOLER EC-1	5

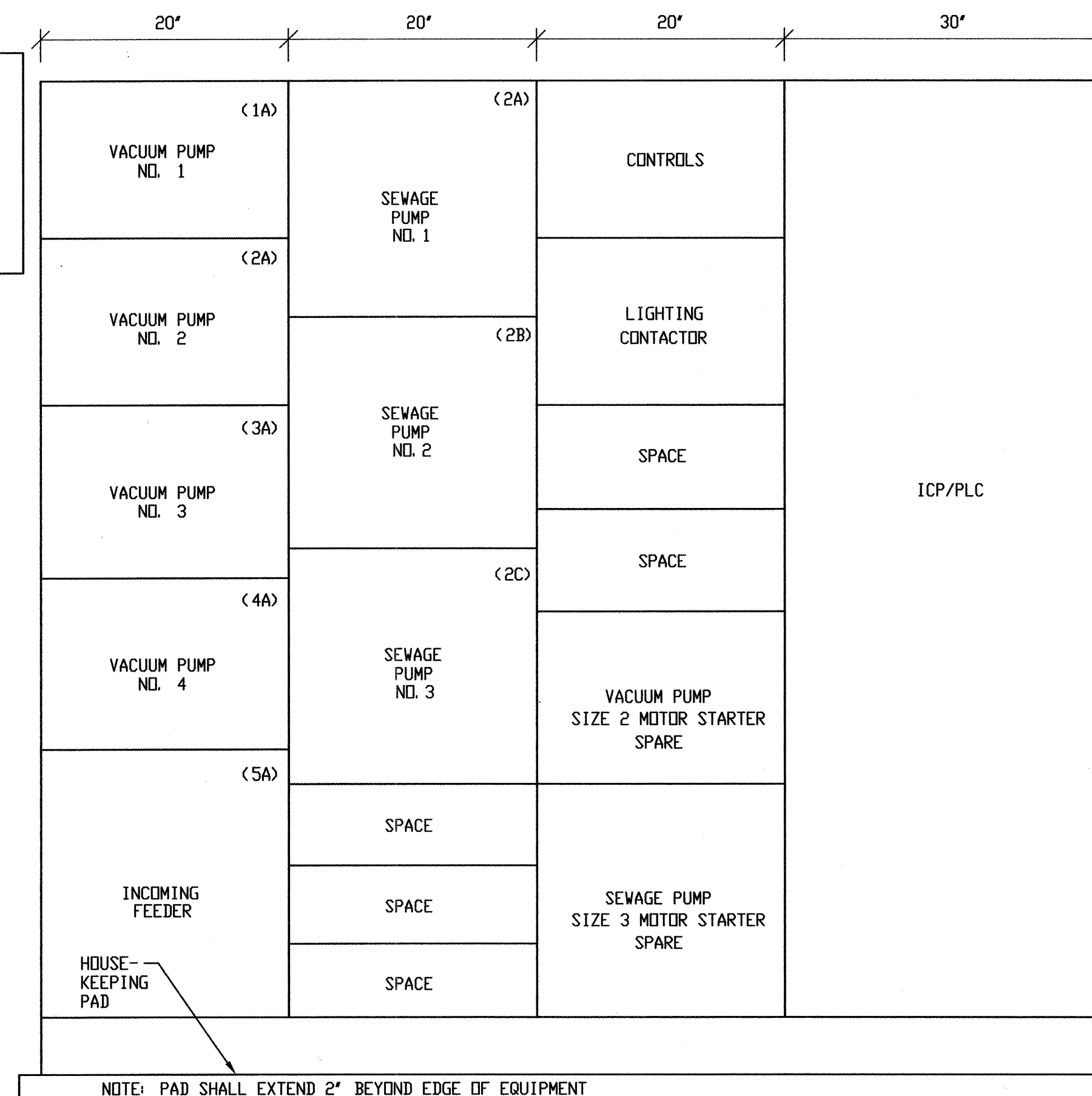
MCC ONE-LINE DIAGRAM

NOTE: SEE AIRVAC DRAWING FOR DETAILED WIRING.



PANEL DESIGNATION: LP1				LOCATION: VACUUM PUMP ROOM			
VOLTAGE: 120/208V, 3PH, 4W				MAIN: 30/3 MCB			
AMPERES: 100				PANEL MOUNTING: WALL			
LOAD SERVED	CONNECTED LOAD (KVA)			CIRCUIT BREAKER	CIRCUIT BREAKER POLES	CKT NO.	LOAD SERVED
	A	B	C				
PUMP STATION LIGHTS	.60			20	1	1	LANDSCAPE CONTROLLER
INDOOR RECEPTACLES	1.08			20*	1	3	OUTSIDE LIGHTS
OUTDOOR RECEPTACLES	.36			20*	1	5	EF-1
MCC ROOM LIGHTS	.14			20	1	7	SPARE
IRRIGATION CONTROLLER	0.2			20	1	9	SPARE EC-1
RTU	0.3			20	1	11	EF-X 1
A/C UNIT	.68			20	1	13	INTRUSION HORN
SPARE				20	1	15	SPARE
SPARE				20	1	17	SPARE
SUB-TOTAL	1.42	1.28	.39				SUB-TOTAL
ΦA: 1.62	KVA= 13.5	AMPS @ 120V					TOTAL CONNECTED LOAD= 5.12 KVA: 14.2 AMPS @ 208V, 3Φ
ΦB: 1.78	KVA= 14.8	AMPS @ 120V					
ΦC: 1.72	KVA= 14.3	AMPS @ 120V					NOTE: BREAKERS DENOTED WITH AN * SHALL BE GFCI TYPE

REVISED OCT. 17, 2002



HDR
HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION
TITLE: PAJARITO AREA VACUUM STATION
ONE LINE DIAGRAMS

DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
SEP 11 2002
SEP 12 2002

PROJECT NO. TS - 01 - 13
COA - 647292
MAP NO. Q-10, R-10

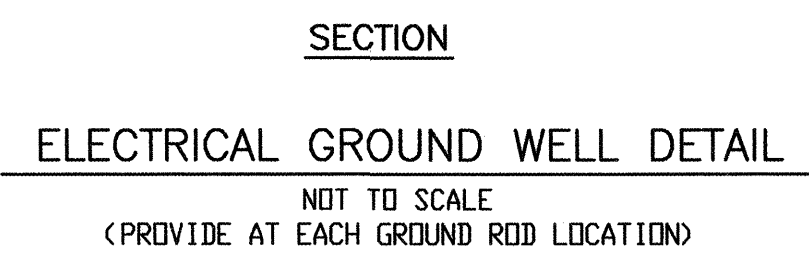
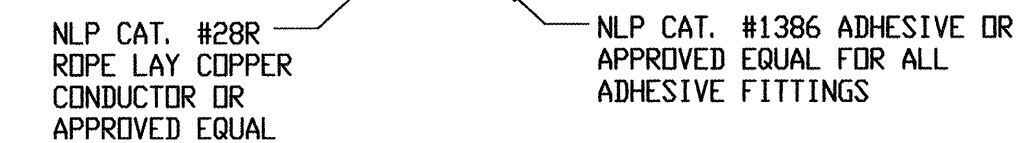
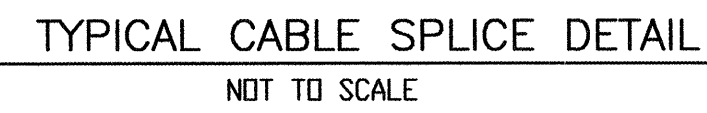
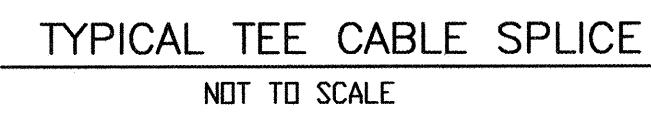
SHEET E-04 OF 6

AS BUILT INFORMATION			
CONTRACTOR	DATE	STANDARD	DATE
INSPECTOR'S	DATE	FIELD	DATE
VERIFICATION BY	DATE	RECORDED BY	DATE
RECORDED BY	DATE	NO.	
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	

SURVEY INFORMATION	
FIELD NOTES	DATE
NO.	

ENGINEER'S SEAL
DAVID F. BESINGER
MEXICO
2002
REGISTERED PROFESSIONAL

REVISIONS	
NO. DATE	REMARKS
DESIGNED BY DB	NOV 2001
DRAWN BY RAG	NOV 2001
CHECKED BY WZF	NOV 2001



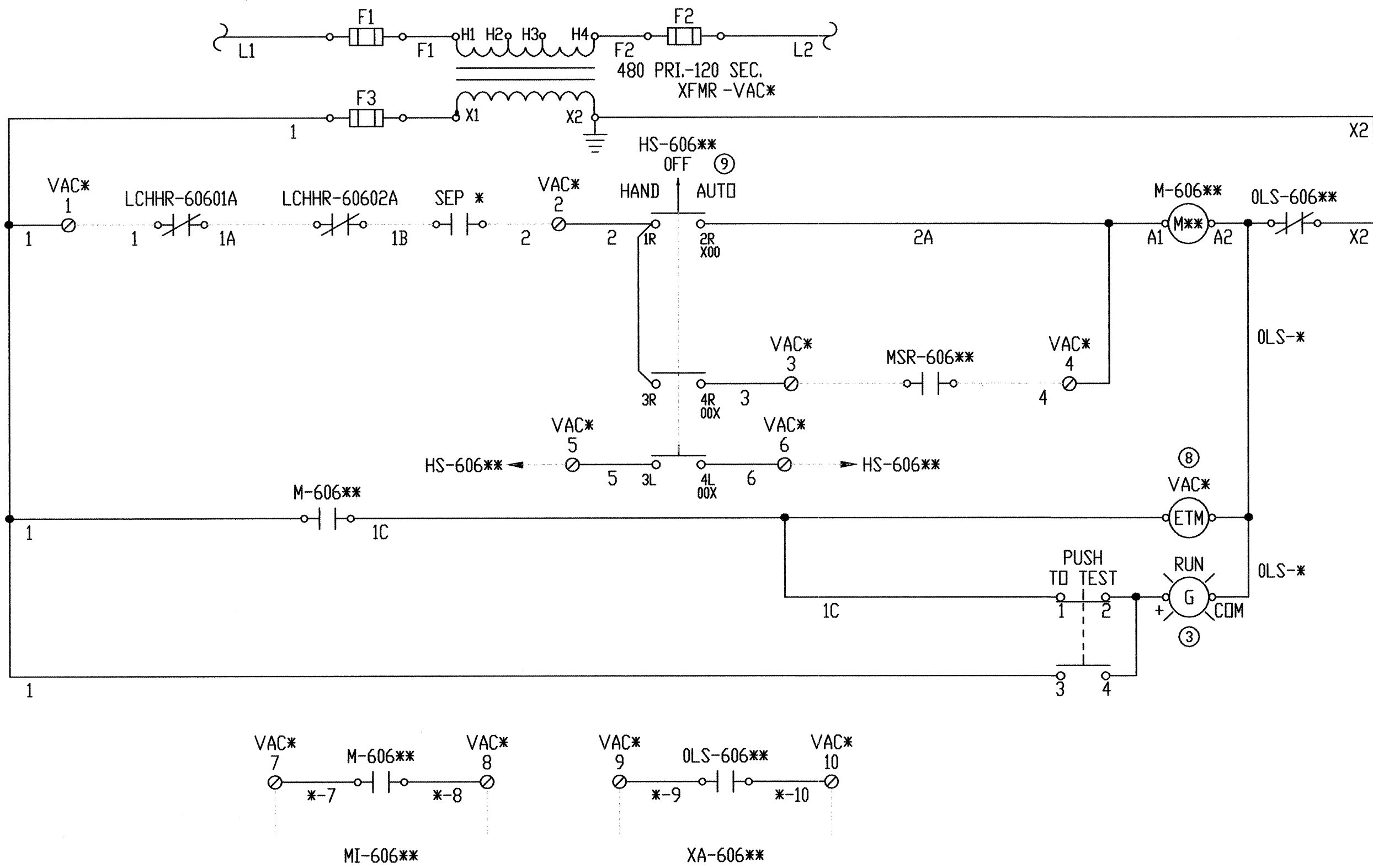
NOTES FOR LIGHTING FIXTURES

1. PROVIDE BREAKOVER POLE, KW INDUSTRIES THSP-30-6.25-11-P-DM-BC. ARROW INDICATES DIRECTION THE POLE SHALL BREAK FOR LOWERING.
2. LIGHTING FIXTURE DENOTED BY "PE" SHALL BE OPERATED BY A PHOTO-CELL.

1. DEVICE AND COMPONENT NUMBERS CALLED OUT ARE SPECIFIC TO NATIONAL LIGHTNING PROTECTION CORPORATION, UNLESS OTHERWISE NOTED.
2. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
3. CONDUCTOR BEND SHALL NOT FORM A SHARPER ANGLE THAN 90 DEGREES OR HAVE A RADIUS LESS THAN 8 INCHES.
4. METAL BODIES OF INDUCTANCE LOCATED WITHIN 6' OF MAIN LIGHTNING CONDUCTORS SHALL BE BONDED TO THE LIGHTNING PROTECTION SYSTEMS.
5. CONNECTIONS TO GROUND AND COUNTERPOISE SHALL BE MADE AT A POINT NOT LESS THAN 2'-0" BELOW GRADE, AND 3'-0" AWAY FROM FOUNDATION WALL.
6. JOB CONDITIONS MAY DICTATE SLIGHT VARIATIONS IN AIR TERMINAL AND GROUND LOOP LOCATIONS.
7. CONDUCTORS SHALL MAINTAIN A HORIZONTAL OR DOWNWARD PATH FREE FROM 'U' AND 'V' POCKETS. ANY RISE IN HORIZONTAL CONDUCTOR SHALL NOT EXCEED 6 INCHES.
8. AIR TERMINAL SHALL BE PLACED AT THE LOCATIONS INDICATED, NOT MORE THAN 2'-0" FROM THE ENDS OF RIDGES, OUTSIDE CORNERS OR OUTSIDE EDGES OF MAIN ROOFS AND MUST EXTEND A MINIMUM OF 10' ABOVE THE OBJECT TO BE PROTECTED.
9. COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE PLACED ON ALUMINUM SURFACES, NOR SHALL ALUMINUM MATERIALS BE PLACED ON COPPER SURFACES.
10. ALL STRUCTURAL STEEL SHALL BE MADE ELECTRICALLY CONTINUOUS THROUGH CONSTRUCTION.
11. ELECTRIC AND ANTENNA SYSTEM GROUNDS SHALL BE CONNECTED WITH #4/0 COPPER CONDUCTOR TO ONE LIGHTNING PROTECTION GROUND.
12. A LIGHTNING ARRESTOR, PROTECTOR OR ANTENNA-DISCHARGE UNIT MUST BE INSTALLED ON EACH ELECTRIC SERVICE ENTRANCE AND RADIO ANTENNA LEAD IN.
13. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING ALL REBAR ELECTRICALLY CONTINUOUS.
14. ALL ADHESIVE FIXTURES SHALL BE SET WITH AN ADHESIVE COMPOUND COMPATIBLE WITH THE ROOFING MATERIAL. ADHESIVES SHALL BE APPROVED IN ADVANCE BY THE ROOFING CONTRACTOR.
15. SEAL THE ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL, SILICONE OR LEAD WEDGES.
16. ALL EXOTHERMIC WELDS MUST BE INSPECTED BY THE OWNER'S REPRESENTATIVE OR THE INSPECTOR AND THE ENGINEER.
17. SEE ARCHITECTURAL FOR ROOF PENETRATIONS AND PARAPET MOUNTING DETAILS.

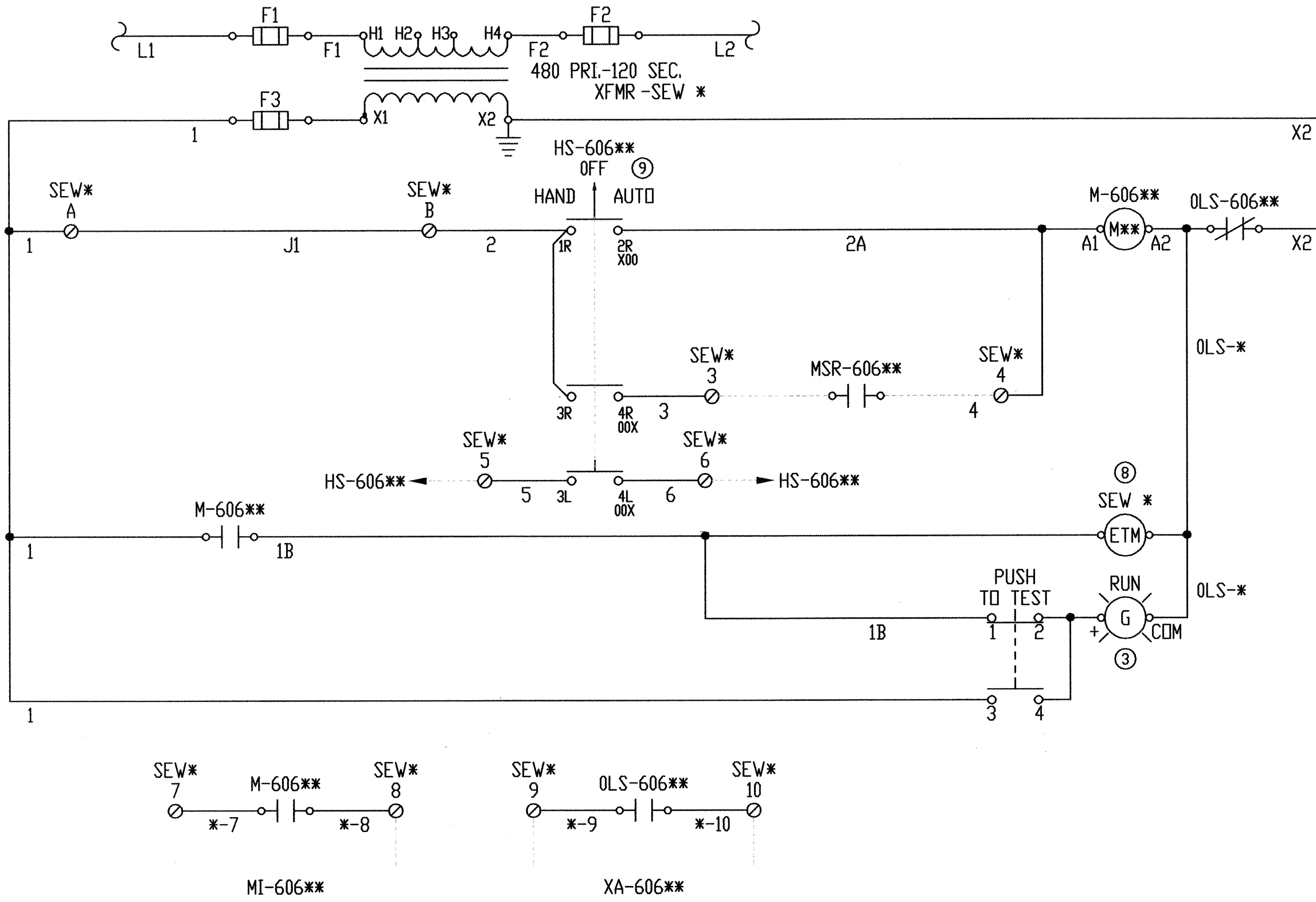


								R			
HDR Engineering, Inc.								NO. DATE	DESIGNED BY DB	DRAWN BY RAG	CHECKED BY WJZ
BERNALILLO COUNTY PUBLIC WORKS DIVISION											
TITLE: PAJARITO AREA VACUUM STATION											
DETAILS											
Design Review Committee			City Engineer Approval						Mr./Day/Yr.		
						Last Design Update					
DESIGN REVIEW COMMITTEE			CITY ENGINEER								
PROJECT NO.	TS - 01 - 13 COA - 647291		MAP NO. Q-10, R-10	SHEET E-05				OF 6			



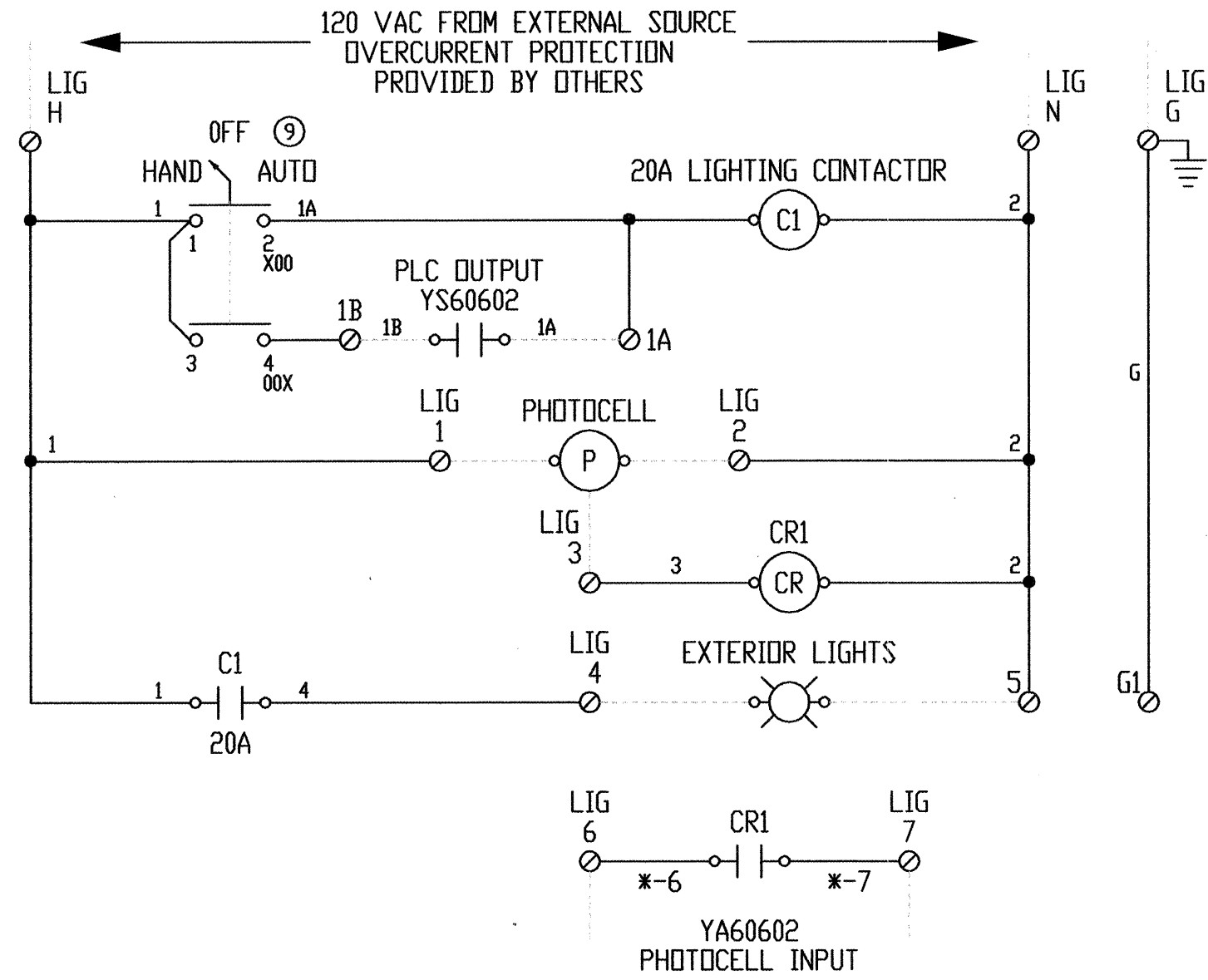
TYPICAL VACUUM PUMP SCHEMATIC

REPLACE * WITH APPROPRIATE VACUUM PUMP NUMBER (IE: VAC 1)
 REPLACE ** WITH APPROPRIATE PUMP TAG NUMBER (IE: 60611 FOR VAC 1)
 TAG NUMBER WILL PRECEDE WIRE NUMBER (IE: 60611-1 WILL BE WIRE #1 OF VAC 1)



TYPICAL SEWAGE PUMP SCHEMATIC

REPLACE * WITH APPROPRIATE SEWAGE PUMP NUMBER (IE: SEW 1)
 REPLACE ** WITH APPROPRIATE SEWAGE PUMP TAG NUMBER (IE: 60621 FOR SEW 1)
 TAG NUMBER WILL PRECEDE WIRE NUMBER (IE: 60621-1 WILL BE WIRE #1 OF SEW 1)



EXTERIOR LIGHTING CONTROLS

LEGEND

- TERMINAL BLOCK IN MOTOR STARTER CUBICLES
- TERMINAL BLOCK IN DIGITAL INPUT STRIP OF PC
- TERMINAL BLOCK IN DIGITAL OUTPUT STRIP OF PC
- ⊗ TERMINAL BLOCK IN ANALOG INPUT STRIP OF PC
- TERMINAL BLOCK IN AC STRIP OF PC

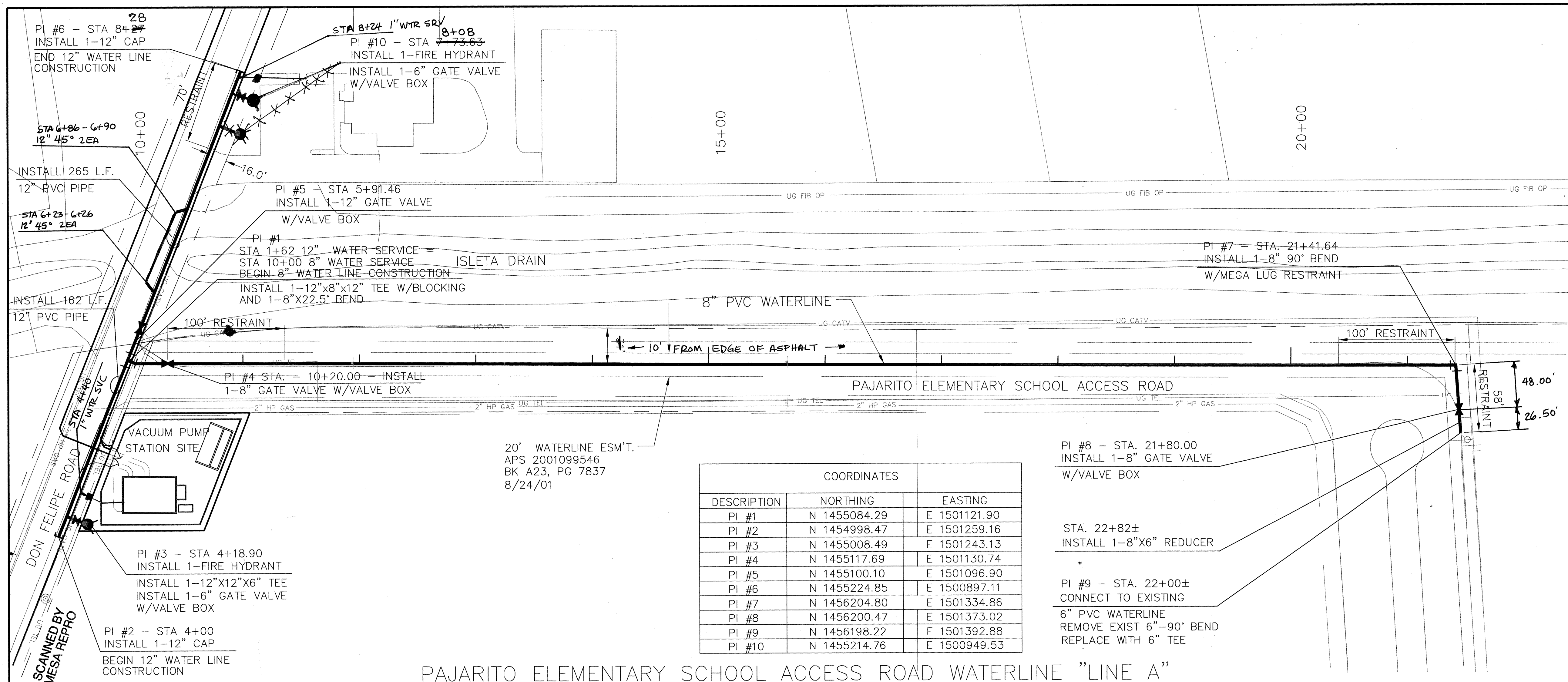
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PUBLIC WORKS DIVISION

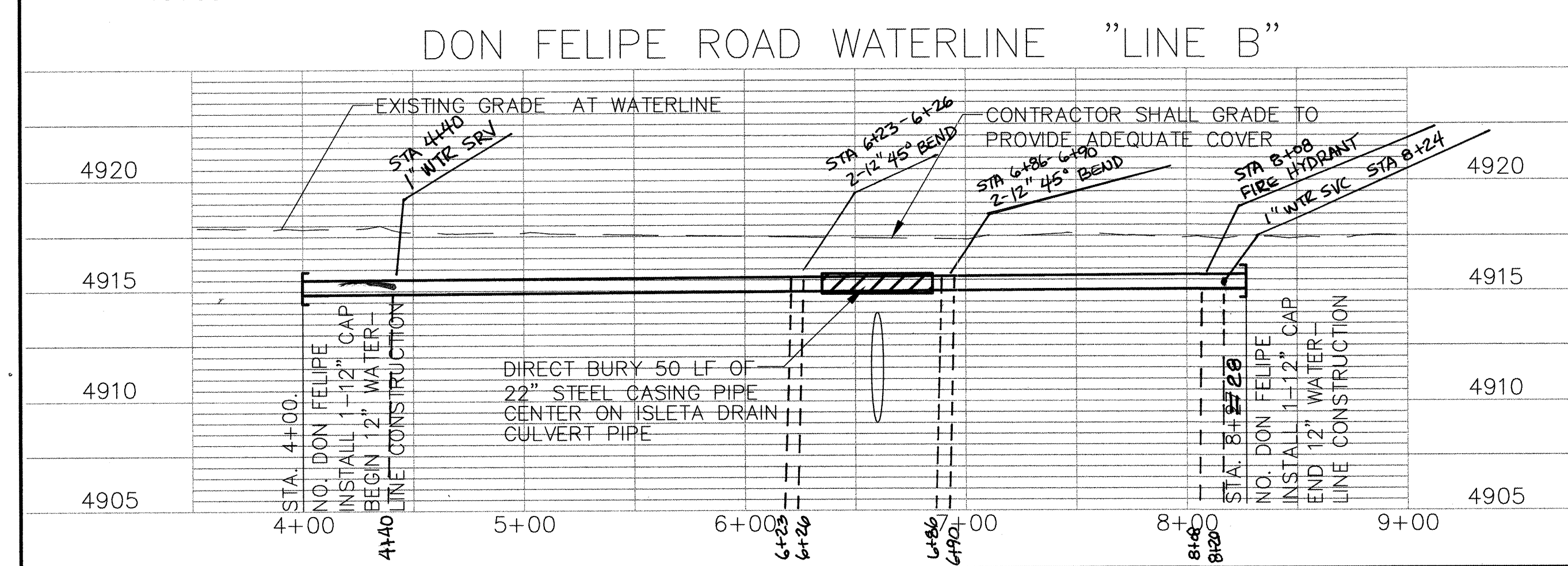
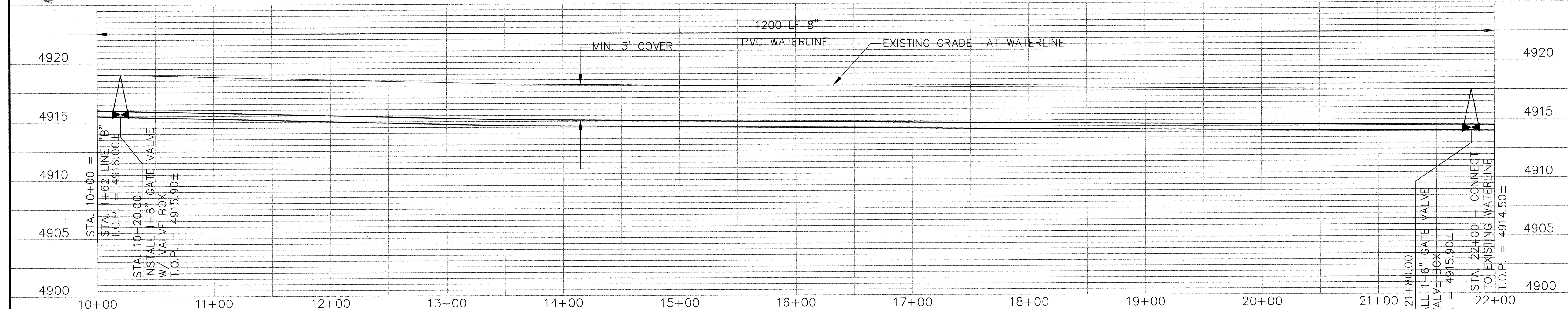
TITLE: PAJARITO AREA VACUUM STATION
CONTROL DIAGRAMS

DESIGN	REVIEW	APPROVAL	DATE	BY
SEP 11 2002	SEP 12 2002	SEP 12 2002	SEP 12 2002	SEP 12 2002
PROJECT NO.	TS - 01 - 13 COA - 647292	MAP NO.	Q-10, R-10	SHEET OF E-06 6



COORDINATES		
DESCRIPTION	NORTHING	EASTING
PI #1	N 1455084.29	E 1501121.90
PI #2	N 1454998.47	E 1501259.16
PI #3	N 1455008.49	E 1501243.13
PI #4	N 1455117.69	E 1501130.74
PI #5	N 1455100.10	E 1501096.90
PI #6	N 1455224.85	E 1500897.11
PI #7	N 1456204.80	E 1501334.86
PI #8	N 1456200.47	E 1501373.02
PI #9	N 1456198.22	E 1501392.88
PI #10	N 1455214.76	E 1500949.53

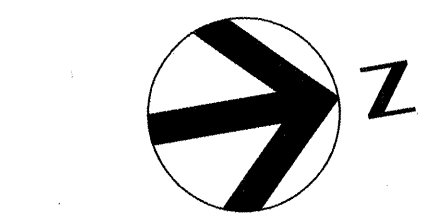
PAJARITO ELEMENTARY SCHOOL ACCESS ROAD WATERLINE "LINE A"



PLAN
SCALE: 1"=50'

PROFILE
SCALE: 1"=50'

GRAPHIC SCALE IN FEET



NOTES:

1. PRIOR TO BEGINNING WATER LINE CONSTRUCTION, CONTRACTOR MUST COORDINATE SCHEDULE AND POSSIBLE OTHER CONSIDERATIONS WITH APS AND PAJARITO ELEMENTARY SCHOOL.
2. PUMP STATION CONTRACTOR TO COORDINATE & VERIFY HORIZONTAL & VERTICAL LOCATIONS OF SITE UTILITIES. SEE SITE PIPING PLAN FOR PUMP STATION WATER SERVICE CONNECTION.
3. ALL MJ FITTINGS AND APPURTENANCES ARE TO BE RESTRAINED USING MEGAPLUG MECHANICAL JOINT RESTRAINTS.
4. FIRE HYDRANT INSTALLATIONS ARE TO BE PER COA STD. DWG. 2340
5. SEE SHEET C-02 FOR VACUUM PUMP STATION WATER SERVICE.

HDR

HDR Engineering, Inc.

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: PAJARITO AREA VACUUM STATION
NEW WATER LINES

Design Review Committee	City Engineer Approval	W. R. / W. R.	W. R. / W. R.
APPROVED	APPROVED		
SEP 11 2002	SEP 12 2002		
PROJECT NO. COA - 647292	MAP NO. Q-10, R-10	SHEET W-01	OF 1