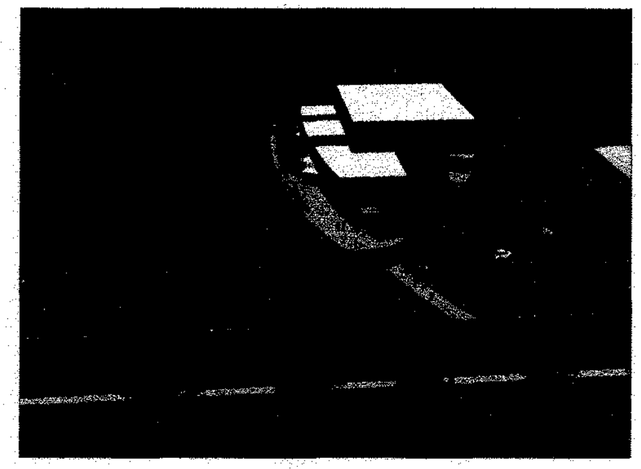
NORTHEAST SAN JUAN COUNTY
FAMILY CENTER

PHASE I - AZTEC BOYS AND GIRLS CLUB

AZTEC, NEW MEXICO



DLR Group

PROJECT NUMBER 3298102
OCTOBER 7, 1998

DLR/Lescher and Mahoney
architecture

Red Mountain Engineers
structural engineering

Telcon Engineering
electrical engineering

City of Aztec
owner

Brown Engineering
mechanical engineering

Red Mountain Engineers
civil engineering

DRAWING INDEX

STATE OF NEW MEXICO
GEORGE A. TROSKY
1117
REGISTERED ARCHITECT

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS
NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

COVER SHEET
3298102-00
DATE: OCT. 7, 1998

DLR Group
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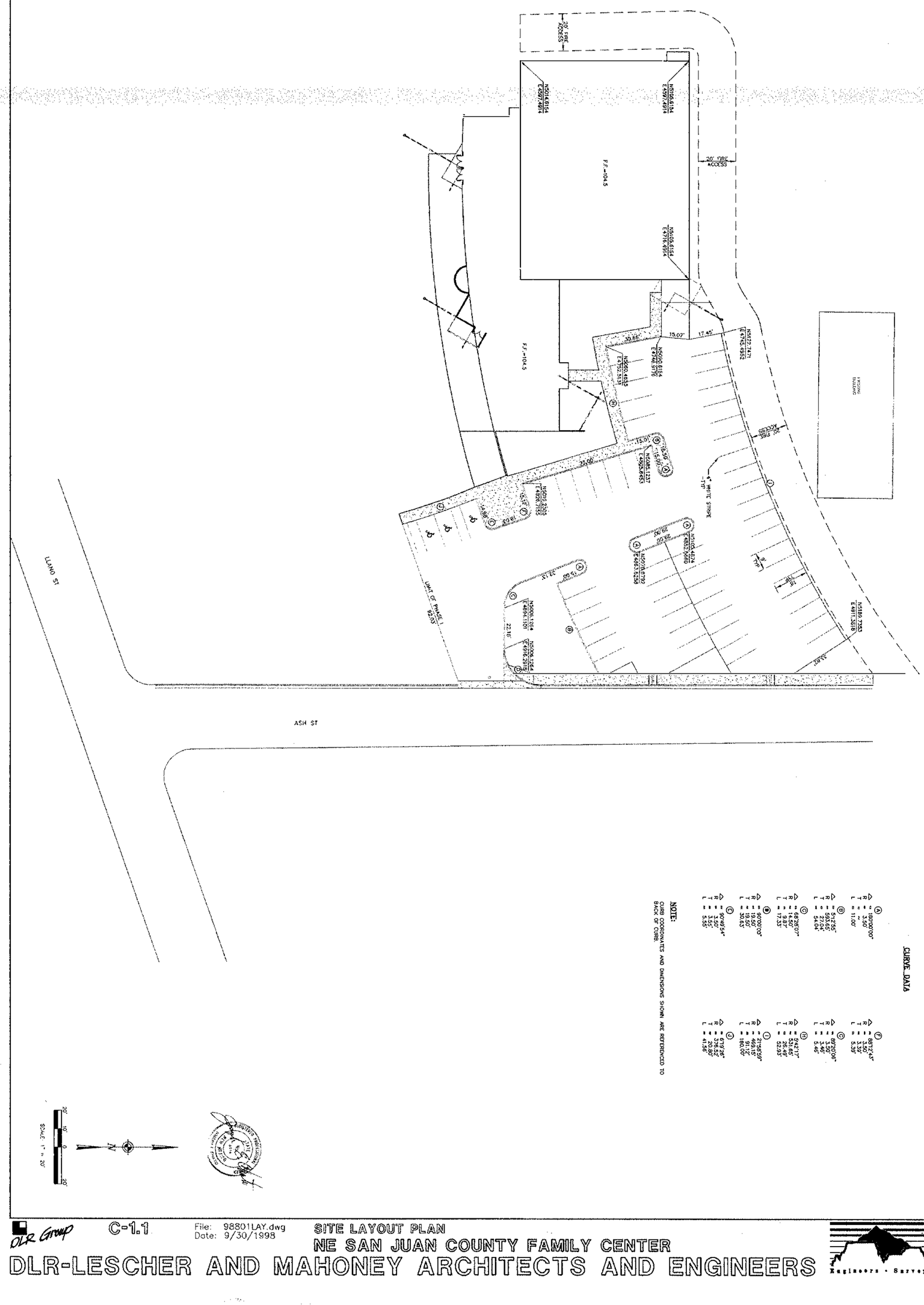


DLR Group C-1.1 File: 98801LAY.dwg Date: 9/30/1998

SITE LAYOUT PLAN

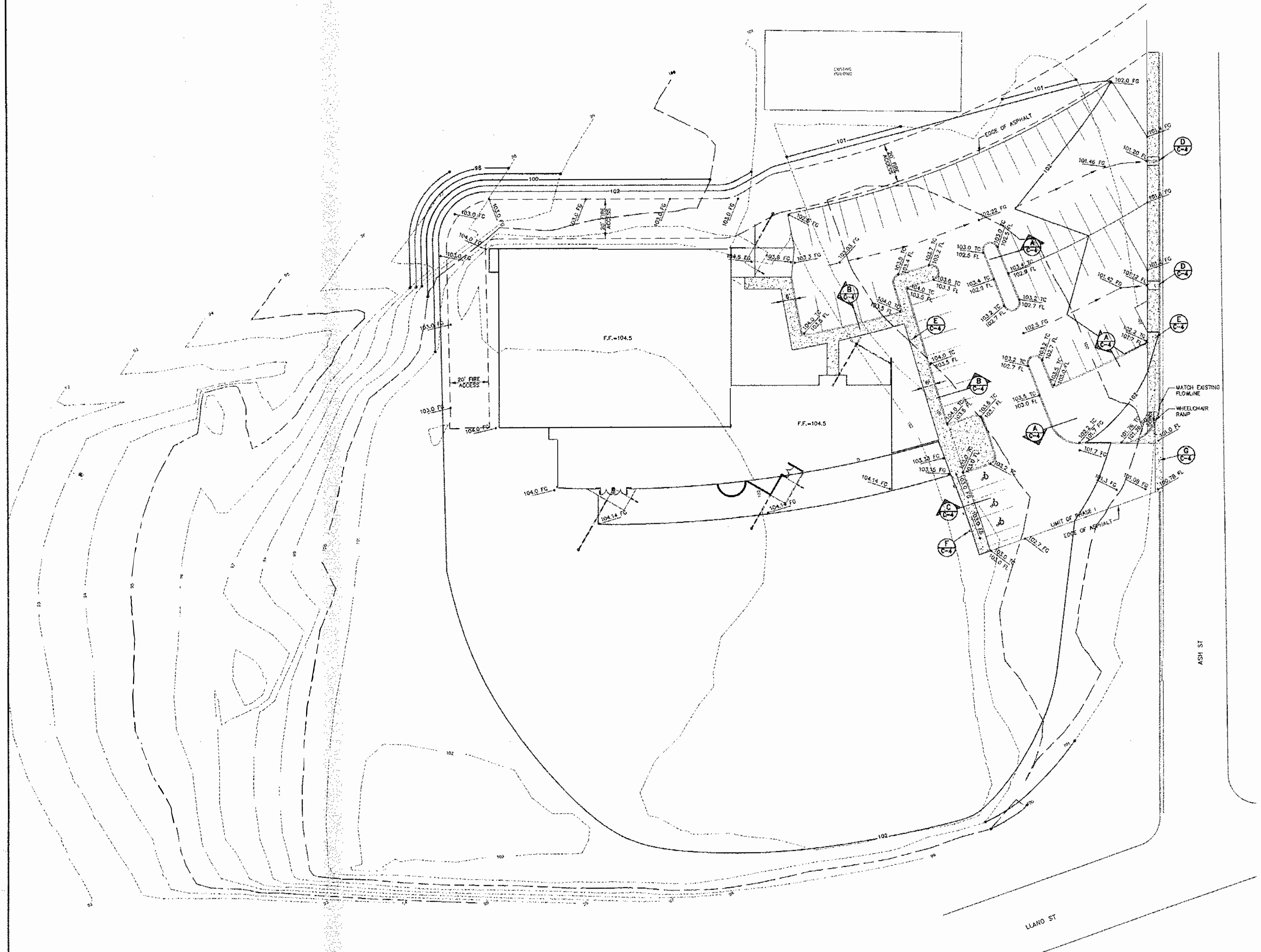
NE SAN JUAN COUNTY FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

Red Mountain Engineers, Inc. Engineers · Surveyors

1216 Parkview Drive
P.O. Box 10810
Santa Fe, NM 87504-0810
Phone: (505) 473-7372

4500 Montgomery Blvd. N.E.
Building C Suite 101
Albuquerque, NM 87109
Phone: (505) 883-2304



STAKING NOTE:

INFORMATION SHOWN IS FOR THE GRADING AND DRAINAGE PLAN ONLY, AND NOT TO BE USED FOR STAKING PURPOSES. SEE SITE PLAN FOR ACTUAL LOCATION OF IMPROVEMENTS.

TOPOGRAPHY NOTE:

ALL EXISTING TOPOGRAPHIC SURVEY DATA SHOWN ON THESE PLANS HAS BEEN OBTAINED BY OTHERS. RED MOUNTAIN ENGINEERS, INC. HAS UNDERTAKEN NO FIELD VERIFICATION OF THIS INFORMATION, AND MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR.

UTILITY NOTES:

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

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR IS URGED TO COMPLY WITH STATE STATUTES, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION WORK.

LEGEND:

PROJECT BOUNDARY LINE

PROPOSED ROADWAY CENTERLINE

EXISTING CONTOUR

FINISHED CONTOUR

ELEV / DESC — FINISHED GRADE SPOT ELEVATION, SPOT DESCRIPTION

FG	FINISHED GRADE
TC	TOP OF CURB
FL	FLOWLINE
INV	INVERT
TOG	TOP OF GRATE
TSW	TOP OF SIDEWALK
TOW	TOP OF WALL

NEW HEADER CURB

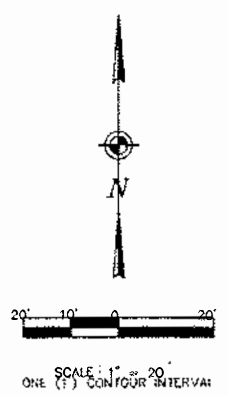
NEW SIDEWALK

PROPOSED SIDEWALK CULVERT

PROPOSED SWALE

EARTHWORK NOTE:

ADDITIONAL GRANULAR MATERIAL HAS BEEN PLACED ON-SITE AFTER COMPLETION OF THE TOPOGRAPHIC SURVEY. CONTRACTOR SHALL DETERMINE AND PROVIDE THE QUANTITY OF GRANULAR MATERIAL REQUIRED TO BRING THE SITE TO FINAL GRADES.



SCALE: 1" = 20'
ONE (1') CONTOUR INTERVAL

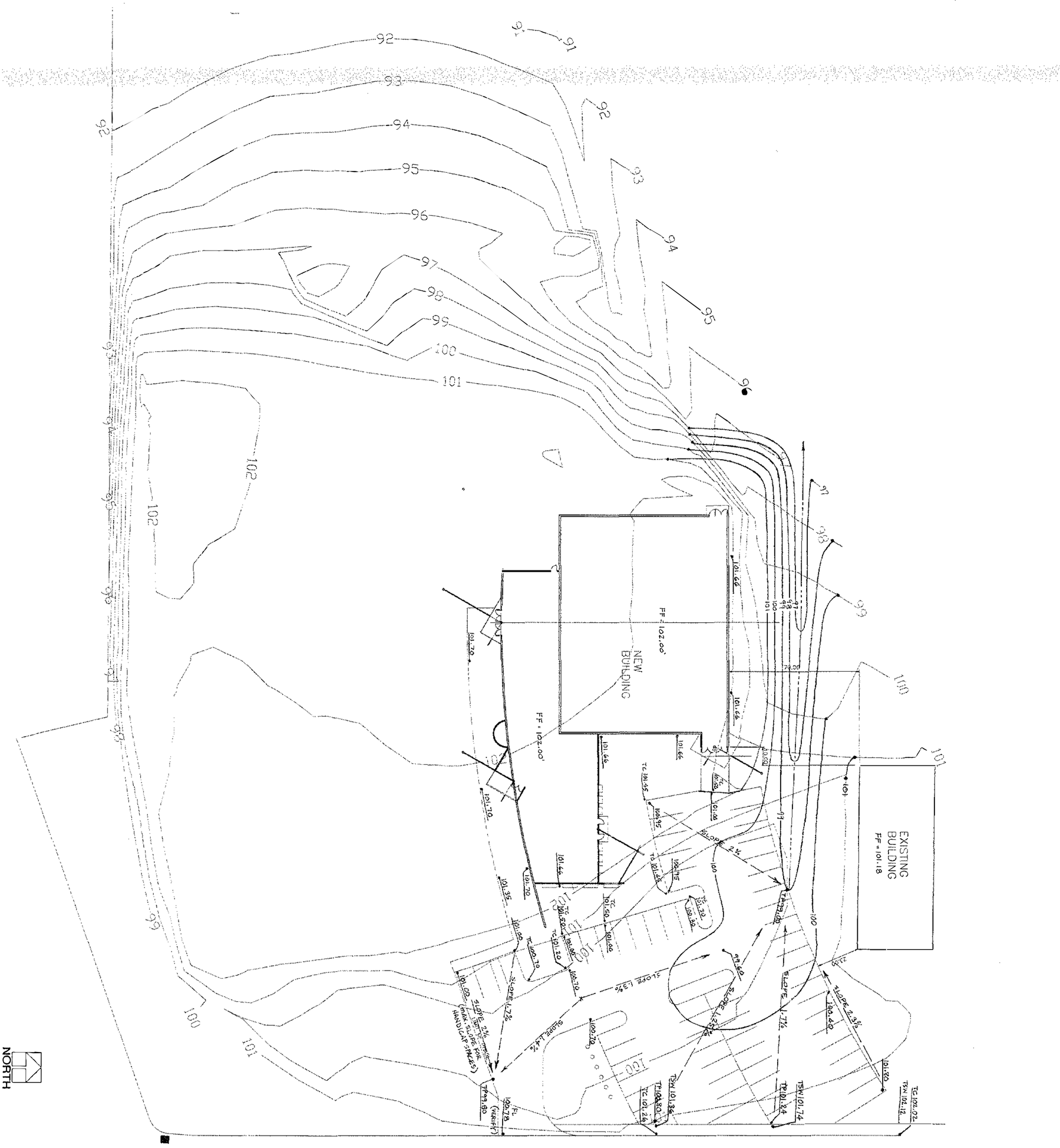
Red Mountain Engineers, Inc.
Engineers · Surveyors

GRADING and DRAINAGE PLAN
NE SAN JUAN COUNTY FAMILY CENTER

C-2.1

File: 98801GRD.dwg
Date: 9/30/1998

DLR Group
DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS



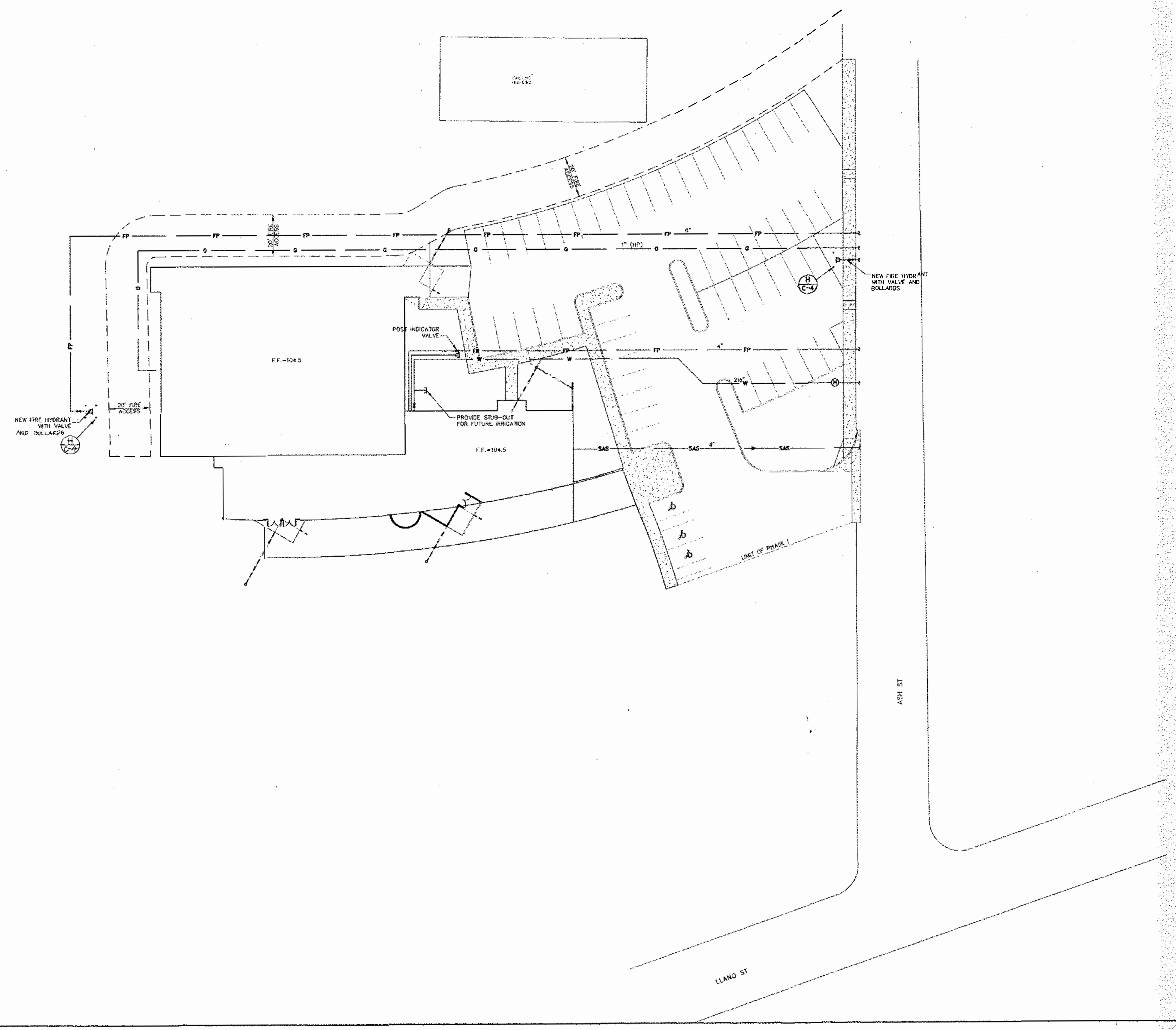
DLR Group C2.1A

3298102-00
DATE: OCT. 7, 1998
REV. 12-9-98

GRADING AND DRAINAGE PLAN - REVISED

NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS



UTILITY NOTES:

SITE UTILITY PLAN IS TO SCHEMATICALLY SHOW UTILITY RUNS. EACH UTILITY IS TO BE PLACED IN THE VICINITY SHOWN AND FIELD ADJUSTED TO BEST FIT FIELD CONDITIONS. BEFORE AND DURING INSTALLATION THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES.

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

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING ABOVE AND UNDERGROUND UTILITIES, OR EXISTING PIPELINES. THE ENGINEER MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM HIMSELF OF THE LOCATION OF ANY EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES, IN AND NEAR THE AREA OF THE WORK, IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING ABOVE AND UNDERGROUND UTILITIES, AND EXISTING PIPELINES. THE CONTRACTOR IS URGED TO COMPLY WITH STATE STATUTES, PERTAINING TO THE LOCATION OF THESE LINES, IN PLANNING AND CONDUCTING EXCAVATION WORK.

UTILITY COMPANIES

CITY OF AZTEC SEWER DEPARTMENT	(505) 334-6448
CITY OF AZTEC WATER DEPARTMENT	(505) 334-8684
US WEST COMMUNICATIONS	1-800-603-6000
PNM GAS AND ELECTRIC –	
(GAS SERVICES)	(505) 950-1997
(ELECTRIC SERVICES)	(505) 599-8310

LEGEND:

G	PROPOSED GAS LINE
SAS	PROPOSED SANITARY SEWER LINE
FP	PROPOSED FIRE PROTECTION LINE
W	PROPOSED PVC WATERLINE
	PROPOSED WATER GATE VALVE
	PROPOSED FIRE HYDRANT
	DENOTES FLOW DIRECTION OF SAS LINE
(H)	PROPOSED WATER METER

SCALE: 1" = 20'

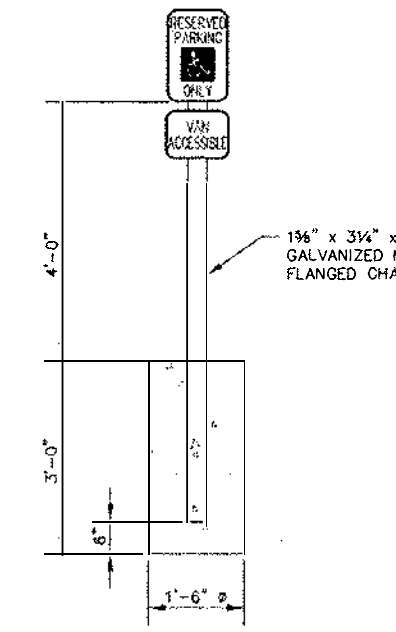
Red Mountain Engineers, Inc.
Engineers · Surveyors

UTILITY LAYOUT PLAN
NE SAN JUAN COUNTY FAMILY CENTER

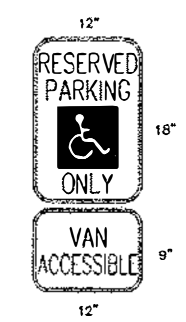
File: 98801UTL.dwg
Date: 9/30/1998

C-3.1

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS



DISABLED PARKING SIGN PLACEMENT DETAIL
NOT TO SCALE



(F) DISABLED SIGN DETAIL
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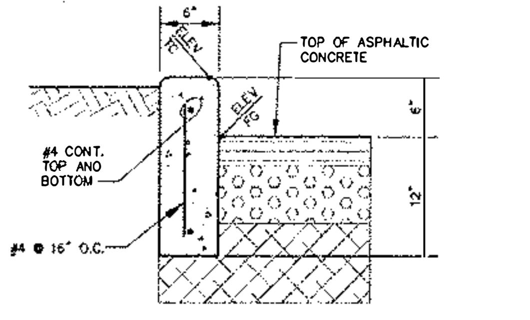
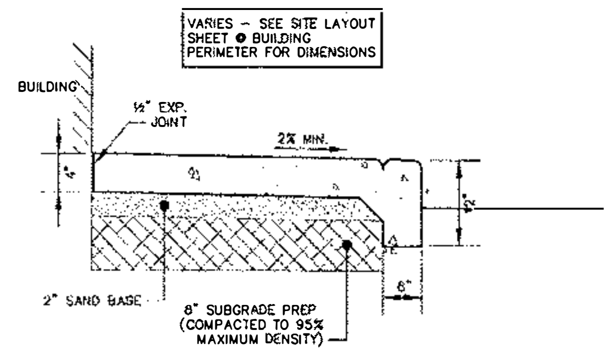


(A) CONCRETE HEADER CURB SECTION
NOT TO SCALE



(B) CONCRETE SIDEWALK SECTION

GENERAL NOTES

1. ALL UTILITY WORK SHALL CONFORM WITH THE "NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION", AND ALL SUBSEQUENT AMENDMENTS AND PROVISIONS UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY ENGINEER. ALL ROADWAY WORK SHALL CONFORM TO THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1994 EDITION".

2. THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER OF THE PROPOSED COMMENCEMENT OF CONSTRUCTION & PROPOSED WORK SCHEDULE AT LEAST 24 HOURS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION. A COPY OF THE APPROVED PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE AT ALL TIMES DURING WORKING HOURS.

3. THE OWNER SHALL BE RESPONSIBLE, THROUGH HIS ENGINEER, FOR MAKING ALL ENGINEERING PLAN CHANGES AND REVISIONS TO THE ORIGINAL APPROVED ENGINEERING DRAWINGS. ALL CHANGES SHALL BE APPROVED BY THE CITY PRIOR TO CONSTRUCTION. FINAL SEALED "RECORD DRAWINGS" SHALL BE FILED WITH THE CITY BEFORE PROJECT ACCEPTANCE.

4. PARALLEL WATER AND SEWER LINES MUST BE AT LEAST TEN FEET APART HORIZONTALLY AND THE WATER LINE SHALL BE AT LEAST THREE FEET HIGHER IN ELEVATION THAN THE SEWER LINE. SEPARATE TRENCHES WILL BE REQUIRED IN ALL CASES (THIS SHALL BE EFFECTIVE EVEN THOUGH ONE LINE HAS ALREADY BEEN INSTALLED PRIOR TO THE OTHER) AND THE WATER LINE SHALL BE AT LEAST THREE FEET ABOVE THE SEWER LINE. THE SEWER LINE SHALL BE DUCTILE IRON OR EQUIVALENT FOR TEN FEET ON EITHER SIDE OF THE WATER LINE.

5. THE CONTRACTOR MUST OBTAIN ALL SEWER HOOKUP PERMITS BEFORE COMMENCING ANY SEWER LINE CONSTRUCTION WITHIN THE CITY RIGHT-OF-WAY. A COPY OF THE PERMIT MUST BE AT THE CONSTRUCTION SITE TO BE SHOWN TO THE CITY INSPECTOR UPON REQUEST.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES AND SHOULD NOT RELY SOLELY ON THESE PLANS FOR EXISTING UTILITY LOCATIONS.

7. THE CONTRACTOR SHALL PROVIDE AN AREA TO STORE CONSTRUCTION DEBRIS WHERE IT WILL NOT BE A NUISANCE TO THE SURROUNDING NEIGHBORHOOD. ALL DEBRIS SHALL BE CONTAINED IN SUCH A MANNER THAT WILL PREVENT SCATTERING, ALL DEBRIS INCLUDING TREES AND UNDERGROWTH SHALL BE DISPOSED OF PROPERLY WITHIN THE CITY LANDFILL. ALL DEBRIS SHALL BE REMOVED FROM THE SITE PRIOR TO FINAL SITE INSPECTION.

8. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS TO THE CONSTRUCTION LIMITS OF THE PROJECT AND IN NO WAY SHALL ENCROACHMENT OCCUR ONTO ADJACENT PROPERTIES UNLESS LEGAL EASEMENTS ARE OBTAINED. ALL FILL AND CUT SLOPES SHALL BE SETBACK FROM THE PROPERTY LINE IN ACCORDANCE WITH CHAPTER 70 OF THE UNIFORM BUILDING CODE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY AGREEMENTS NECESSARY OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY INCLUDING UTILITIES.

9. ALL CHANGE ORDERS SHALL BE CERTIFIED BY A NEW MEXICO PROFESSIONAL ENGINEER AND RECEIVE CITY'S APPROVAL PRIOR TO IMPLEMENTING CHANGE ORDER CONSTRUCTION.

10. FOR ALL CONCRETE USED, THE DESIGN COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 PSI, 6 BAG MIX AND MAXIMUM AGGREGATE SIZE OF 3/4 INCH. PERCENTAGE OF AIR ENTRAINMENT IN THE CONCRETE AT THE PROJECT SITE SHALL BE IN THE RANGE OF 4 TO 7 PERCENT.

11. ONE SET OF CONCRETE SAMPLING (THREE CONCRETE CYLINDERS) TO BE TAKEN FOR EACH 500 LINEAR FEET OR 50 CUBIC YARDS INSTALLED OR A MINIMUM OF ONE SAMPLE PER DAY WHICHEVER IS THE GREATEST. CONCRETE CYLINDERS ARE TO BE TEST BROKEN AT 7-DAY, 28-DAY AND 45-DAY (IF NEEDED) INTERVALS WITH TEST RESULTS SUBMITTED DIRECTLY TO THE ENGINEER.

12. THE CONTRACTOR DURING CONSTRUCTION SHALL MAINTAIN THE PROPER TRAFFIC CONTROL DEVICES IN COMPLIANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

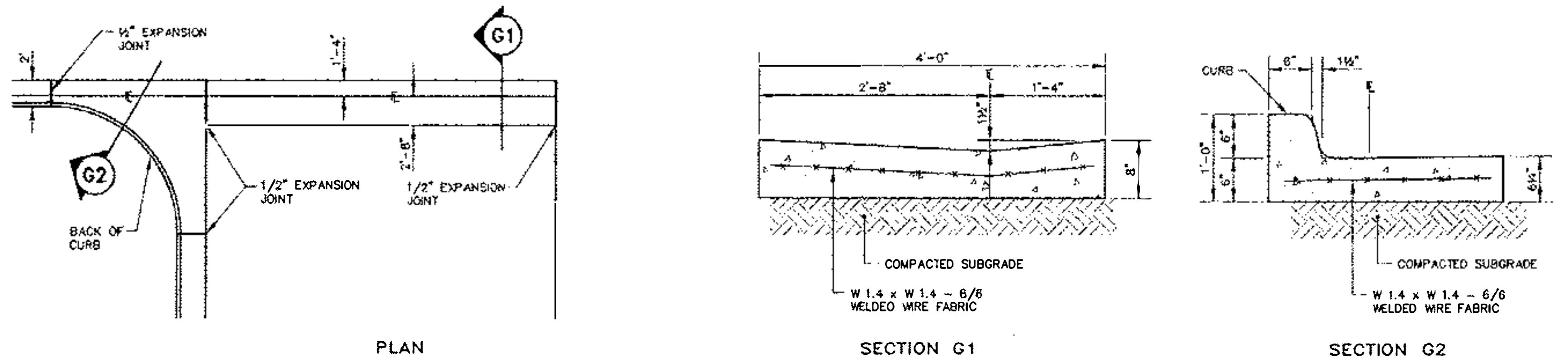
13. THE MAXIMUM DEVIATION OF THE TOP SURFACE OF THE CURB AND GUTTER SHALL NOT EXCEED 1/8 INCH IN 10 FEET NOR SHALL THE INSIDE FACE DEVIATE MORE THAN 1/4 INCH IN 10 FEET FROM A STRAIGHT LINE. PRIOR TO OR DURING THE CITY'S FINAL INSPECTION, THE CURB AND GUTTER SHALL BE WATER FLOW TESTED AS DIRECTED BY THE CITY. ALL AREAS WITH STANDING WATER SHALL BE REJECTED.

14. THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY SITE EROSION CONTROL DEVICES FOR INHIBITING DUST, WIND AND AIR SEDIMENT MOVEMENT OFFSITE DURING ALL PHASES OR STAGES OF CONSTRUCTION.

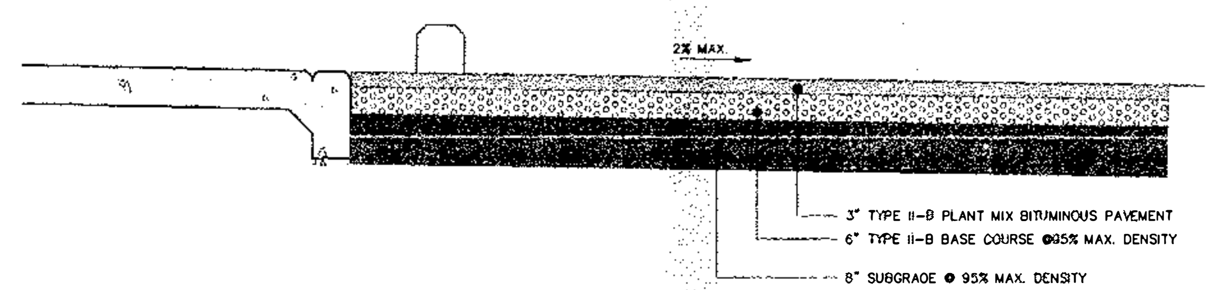
15. THE CONTRACTOR SHALL CONTACT THE ENGINEER TO VERIFY THE DENSITY TEST RESULTS PRIOR TO COMMENCING INSTALLATION OF PAVEMENT STRUCTURAL SECTION. TRENCH DENSITY COMPACTION TESTS ARE REQUIRED FOR EACH 100 LINEAR FEET OF MAINLINE, ALL LATERALS, MANHOLES, INLETS AND ALL STRUCTURES THAT REQUIRE COMPACTED FOUNDATION OR CONTROLLED BACKFILL. ALL TEST RESULTS FROM THE TESTING LABORATORY ARE TO BE SENT DIRECTLY TO THE ENGINEER.

16. ASTM OR AASHTO CERTIFICATE OF MATERIALS COMPLIANCE ARE TO BE SUBMITTED TO THE ENGINEER.

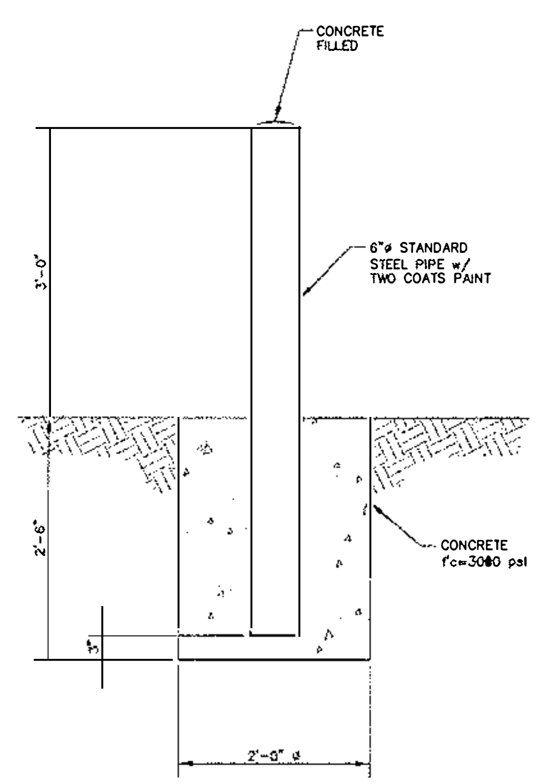
17. SUBGRADE, BASE MATERIAL, ASPHALT TREATED BASE AND ASPHALT SURFACE COURSE REQUIRE COMPACTION TESTS FOR EACH 220 LINEAR FEET. ASPHALT SAMPLES FOR EACH 500 TONS INSTALLED OR ONE SAMPLE PER DAY IS REQUIRED TO BE ANALYZED WITH TEST RESULTS SENT TO THE ENGINEER.



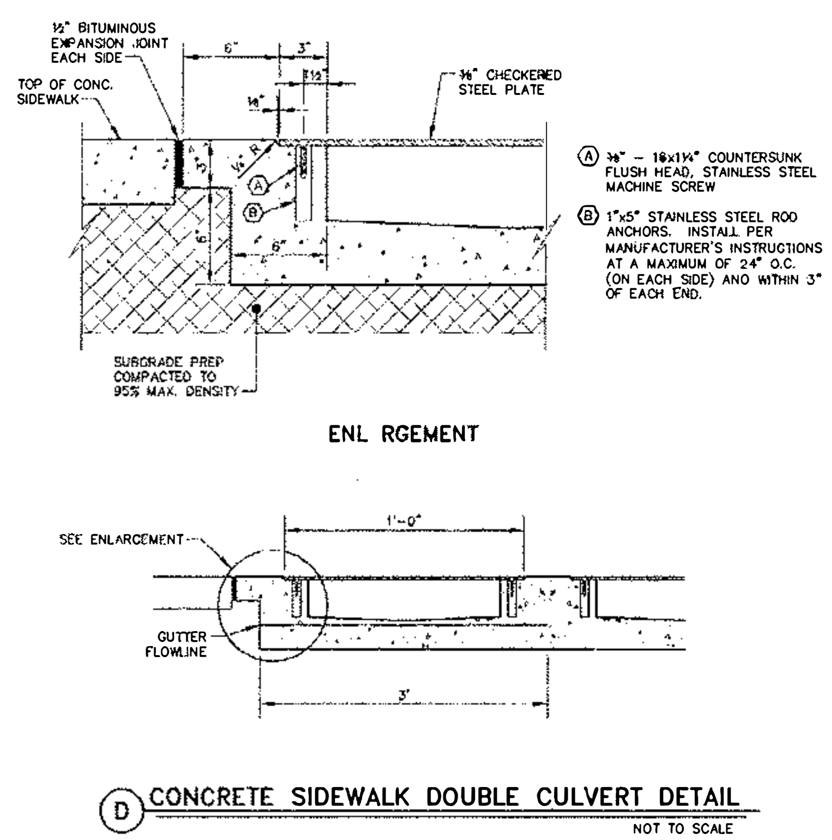
(G) CONCRETE VALLEY GUTTER DETAILS
NOT TO SCALE



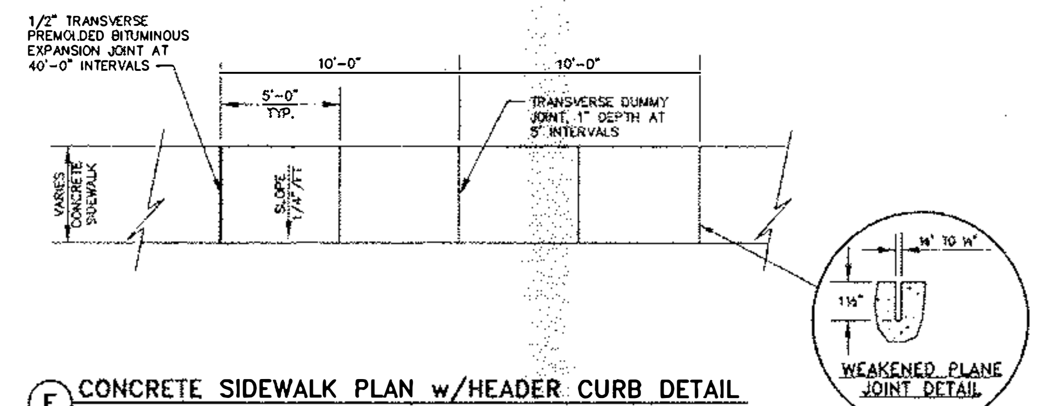
(C) HANDICAP SECTION
NOT TO SCALE



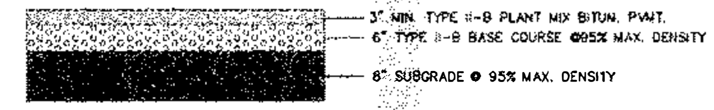
(H) BOLLARD DETAIL
NOT TO SCALE



(D) CONCRETE SIDEWALK DOUBLE CULVERT DETAIL
NOT TO SCALE



(E) CONCRETE SIDEWALK PLAN w/HEADER CURB DETAIL
NOT TO SCALE



TYPICAL PARKING LOT PAVEMENT SECTION
NOT TO SCALE

9/30/99

Red Mountain Engineers, Inc.

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

NE SAN JUAN COUNTY FAMILY CENTER

MISCELLANEOUS CIVIL DETAILS

File: 98801GRD.dwg
Date: 9/30/1998

C-4.1

LEGEND NOTES

- CONCRETE STOOP. SEE THE STRUCTURAL DRAWINGS.
- (2) ROOF SCUTTLE AND WALL LADDER. SEE ROOF PLAN.
- (3) STEEL TUBE BOLLARD. SEE DETAIL BL-4.
- (4) FUTURE COMPLETE BASKETBALL COURT STRIPING. N.I.C.
- (5) FUTURE COMPLETE VOLLEYBALL COURT STRIPING. N.I.C.
- (6) ALL INTERIOR METAL STUD WALLS ARE 3-5/8" UNLESS OTHERWISE NOTED.
- (7) ALL DIMENSIONS ARE FACE OF STUD TO FACE OF STUD, TYP.
- (8) FUTURE BASKETBALL BACKSTOP. N.I.C., TYPICAL FOR 6.
- (9) FUTURE BLEACHERS. N.I.C.
- (10) FRAMED OPENING FOR E.W.C. PER STRUCTURAL DETAIL. AVOID INTERRUPTING A JOIST BEARING STUD.

GEORGE A TROSKY 1117 REGISTERED ARCHITECT STATE OF NEW MEXICO

FOR DIMENSIONS SEE SHEET A2.1

FLOOR PLAN

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

NORTH

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

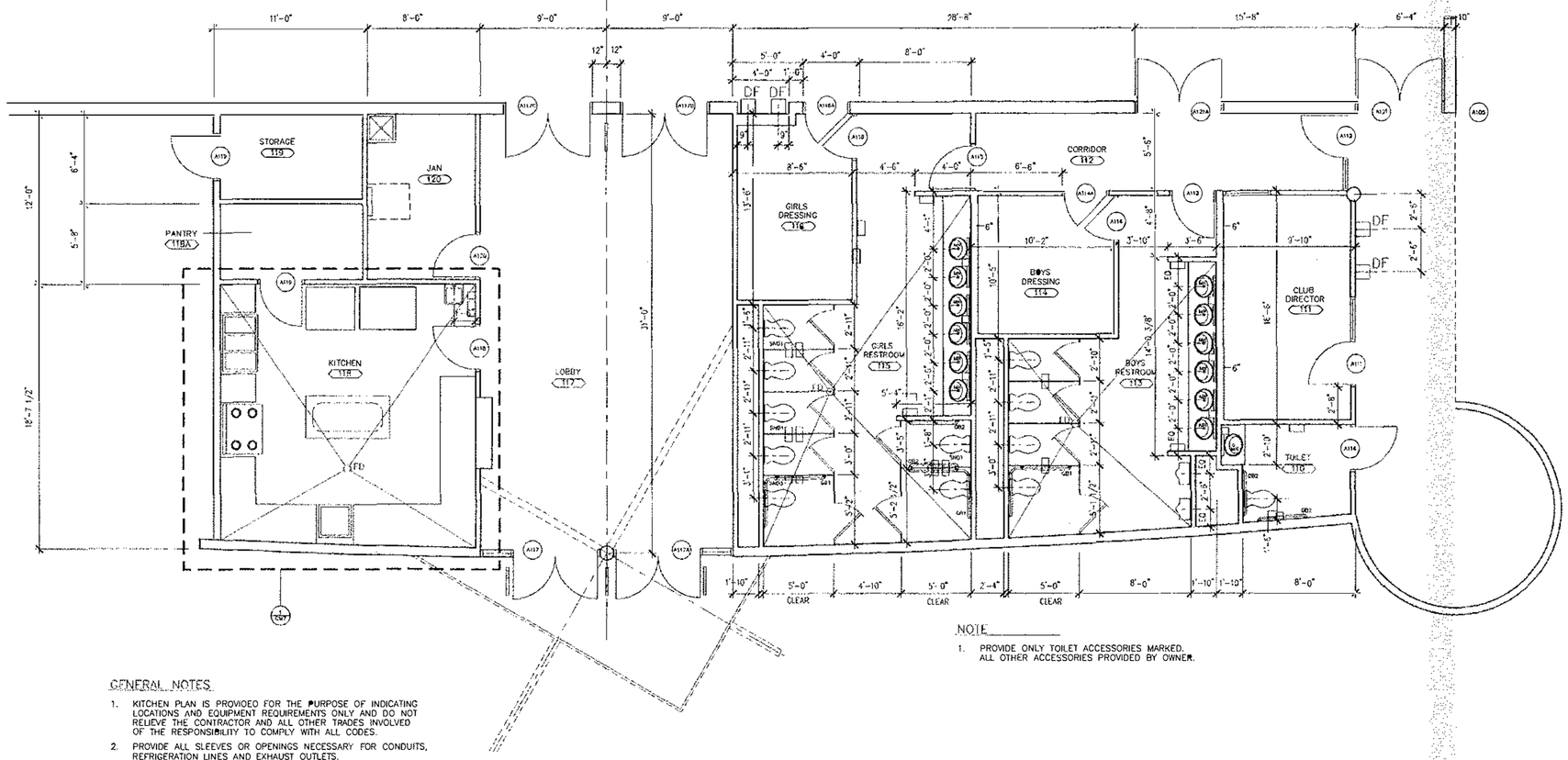
NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

FLOOR PLAN

3296102-00
DATE: OCT. 7, 1998

A1.1

OLE Group

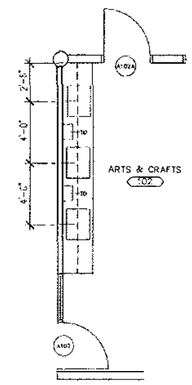


NOTE

1. PROVIDE ONLY TOILET ACCESSORIES MARKED. ALL OTHER ACCESSORIES PROVIDED BY OWNER.

1 LARGE SCALE PLAN

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



2 LARGE SCALE PLAN

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

GENERAL NOTES

1. KITCHEN PLAN IS PROVIDED FOR THE PURPOSE OF INDICATING LOCATIONS AND EQUIPMENT REQUIREMENTS ONLY AND DO NOT RELIEVE THE CONTRACTOR AND ALL OTHER TRADES INVOLVED OF THE RESPONSIBILITY TO COMPLY WITH ALL CODES.
2. PROVIDE ALL SLEEVES OR OPENINGS NECESSARY FOR CONDUITS, REFRIGERATION LINES AND EXHAUST OUTLETS.
3. PROVIDE ALL BACKING IN WALLS FOR WALLHUNG EQUIPMENT, SHELVING, ETC. AS INDICATED ON PLANS.
4. PROVIDE AND INSTALL EXHAUST HOODS AND EXHAUST BLOWERS AND ALL FINAL DUCT CONNECTIONS ALL FULLY WELDED TO MEET N.F.P.A. 96 AND LOCAL CODES.
5. PROVIDE DRY (OR WET) CHEMICAL FIRE SUPPRESSION SYSTEM FOR COOKING EQUIPMENT IN ACCORDANCE WITH ALL CODES.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TRASH RESULTING FROM THE INSTALLATION OF EQUIPMENT AND FIXTURES.
7. ALL ITEMS SCHEDULED FOR MOUNTING EITHER IN THE FLOOR OR WALLS BY THE CONTRACTOR SHALL BE DELIVERED TO THE JOB SITE EARLY IN THE CONSTRUCTION SCHEDULE.

LEGEND NOTES

STATE OF NEW MEXICO
GEORGE A TROSKY
1117
REGISTERED ARCHITECT

LARGE SCALE PLANS, NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

3298102-00
DATE: OCT. 7, 1998

DLR Group

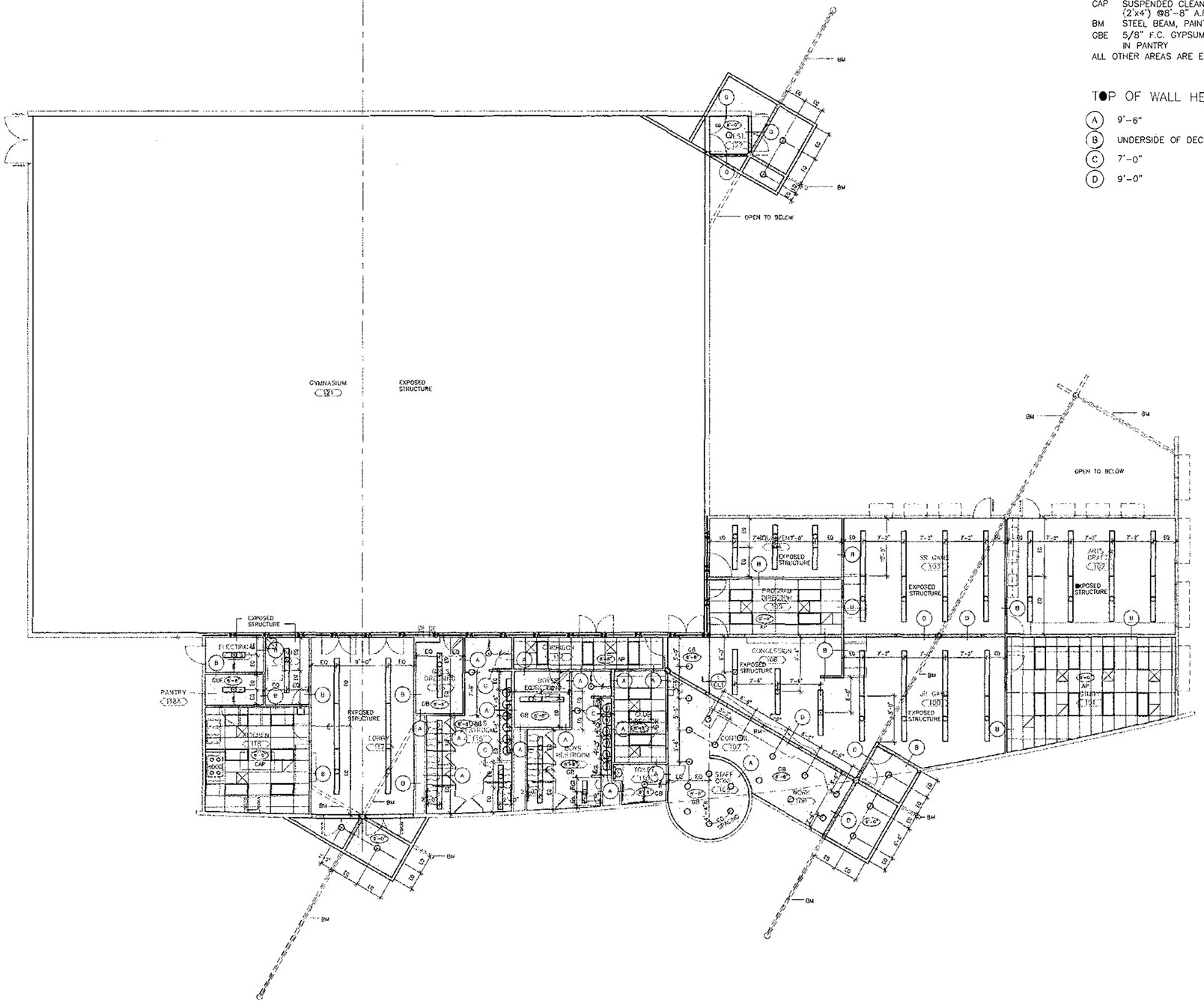
A2.1

LEGEND

GB 5/8" F.C. GYPSUM BOARD, PAINT FINISH, @8'-8" A.F.F.
AP SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM, (2'x4') @9'-0" A.F.F., U.N.O.
CAP SUSPENDED CLEANABLE ACOUSTICAL PANEL CEILING SYSTEM, (2'x4') @8'-8" A.F.F., U.N.O.
BM STEEL BEAM, PAINT FINISH
GBE 5/8" F.C. GYPSUM BOARD, EPOXY FINISH, @8'-8" A.F.F. IN PANTRY
ALL OTHER AREAS ARE EXPOSED CONSTRUCTION, PAINT FINISH

TOP OF WALL HEIGHTS

(A) 9'-6"
(B) UNDERSIDE OF DECK
(C) 7'-0"
(D) 9'-0"



REFLECTED CEILING PLAN

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

NORTH

LEGEND NOTES

STATE OF NEW MEXICO
GEORGE A. TROSKY
11117
REGISTERED ARCHITECT
10/24/98

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

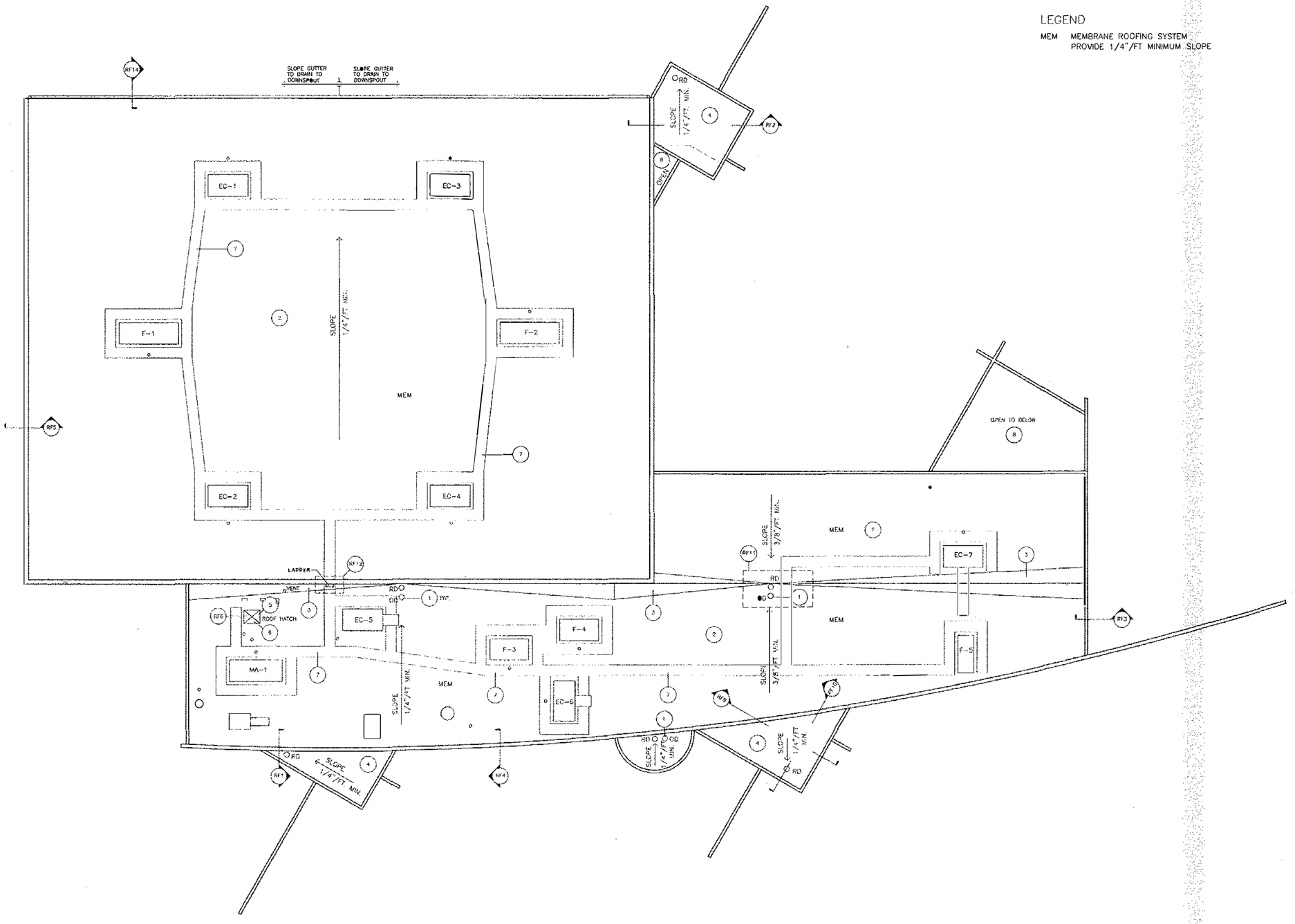
NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

REFLECTED CEILING PLAN

3298102-00
DATE: OCT. 7, 1998

A3.1

DLR Group



ROOF PLAN

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

NORTH

LEGEND

MEM MEMBRANE ROOFING SYSTEM
PROVIDE 1/4"/FT MINIMUM SLOPE

LEGEND NOTES

1. OVERFLOW DRAIN IS 2 INCHES HIGHER THAN ROOF DRAIN, TYPICAL.
2. EPDM SINGLE PLY MEMBRANE ROOF SYSTEM, TYPICAL.
3. ROOF INSULATION "CRICKETS" TO PROVIDE POSITIVE SLOPE TO ROOF DRAINS PER MANUFACTURERS RECOMMENDATIONS, TYPICAL.
4. CANOPY ROOF WITH T.S. BEAMS.
5. ROOF SCUTTLE 30"W×36"L.
6. ROOF LADDER BELOW.
7. 2'-0" WIDE MEMBRANE WALKWAY.
8. OPEN ROOF WITH T.S. BEAMS.

STATE OF NEW MEXICO
GEORGE A. TROSKY
11117
REGISTERED ARCHITECT

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

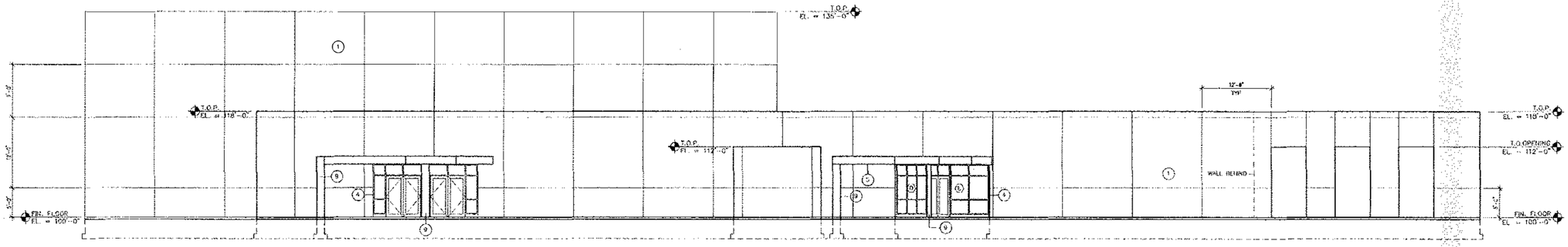
NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

ROOF PLAN

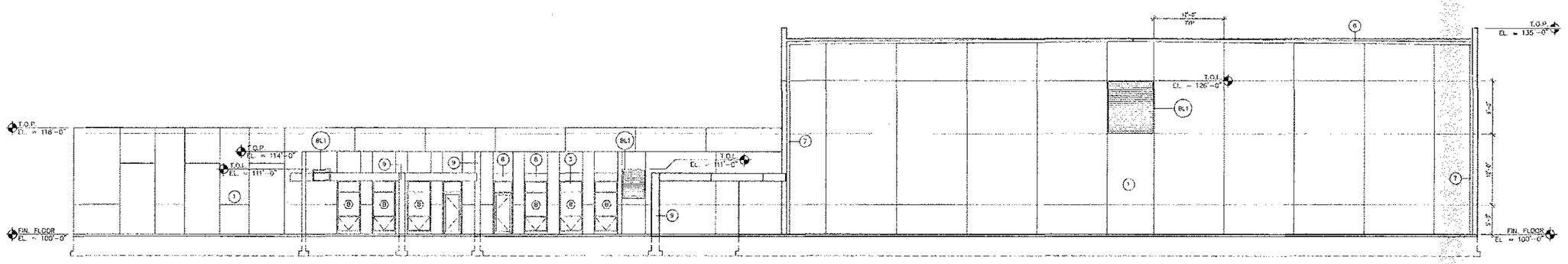
3396102-00
DATE: OCT. 7, 1998

DLR Group A4.1

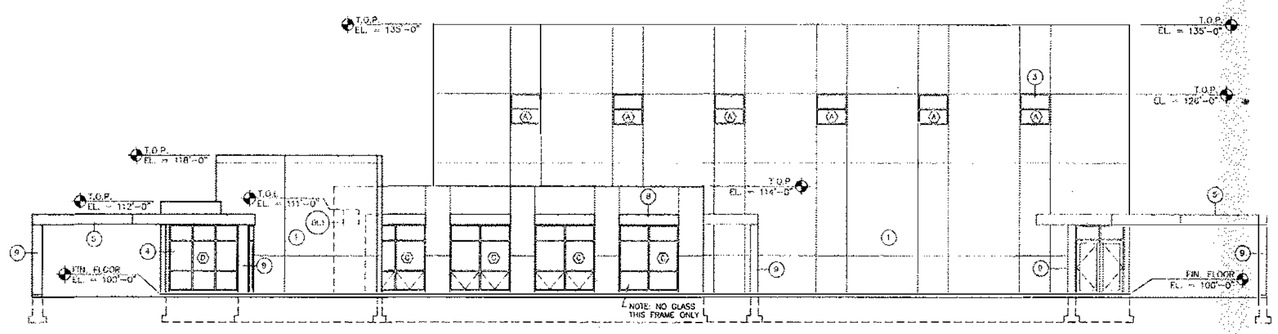
A4-1.dwg 9:38a 20914



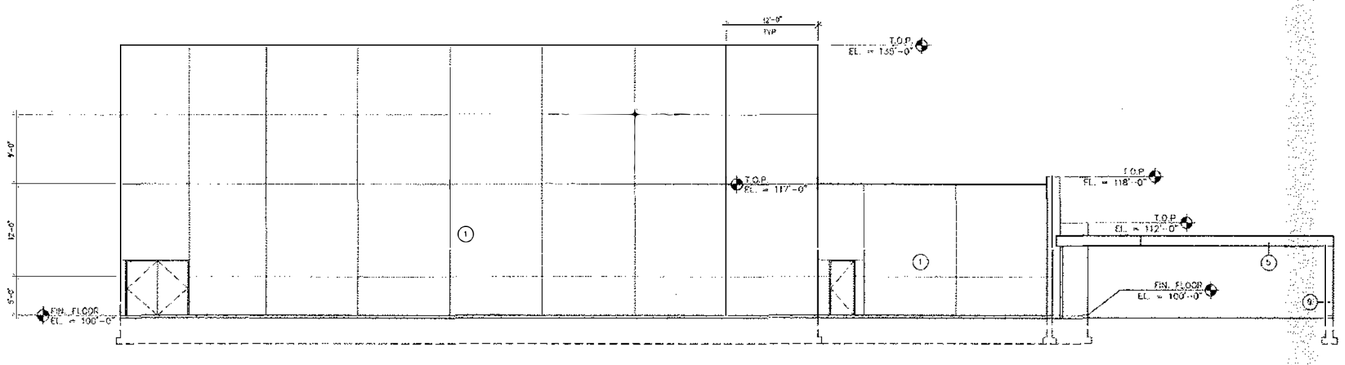
1 SOUTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



2 NORTH BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



3 EAST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"



4 WEST BUILDING ELEVATION
SCALE: 1/8" = 1'-0"

LEGEND NOTES

1. STUCCO FINISH OVER 1" RIGID INSULATION.
2. NOT USED.
3. ALUMINUM WINDOWS. SEE SCHEDULE.
4. ALUMINUM STOREFRONT. SEE DOOR AND FRAME SCHEDULE.
5. CANOPY ROOF.
6. GUTTER - SLOPE TO DOWNSPOUT.
   DOWNSPOUTS. 3 SIDED WITH OPEN FRON
7. FABRIC DOOR AND WINDOW CANOPIES.
8. 12" ø STEEL COLUMN

STATE OF NEW MEXICO
GEORGE A. TROSKY
1117
REGISTERED ARCHITECT
10/26/98

- PHASE 1 AZTEC BOYS AND GIRLS CLUB
AND ENGINEERS

BUILDING ELEVATIONS

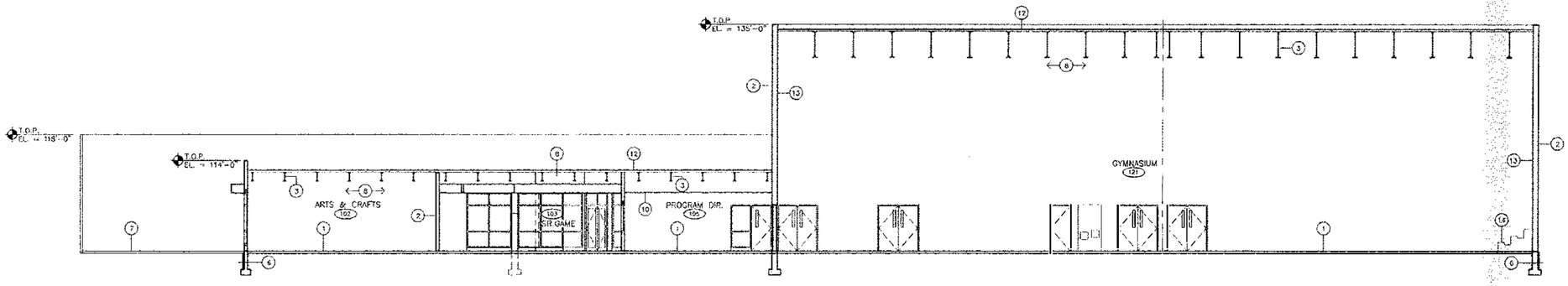
NE SAN JUAN CO. FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS

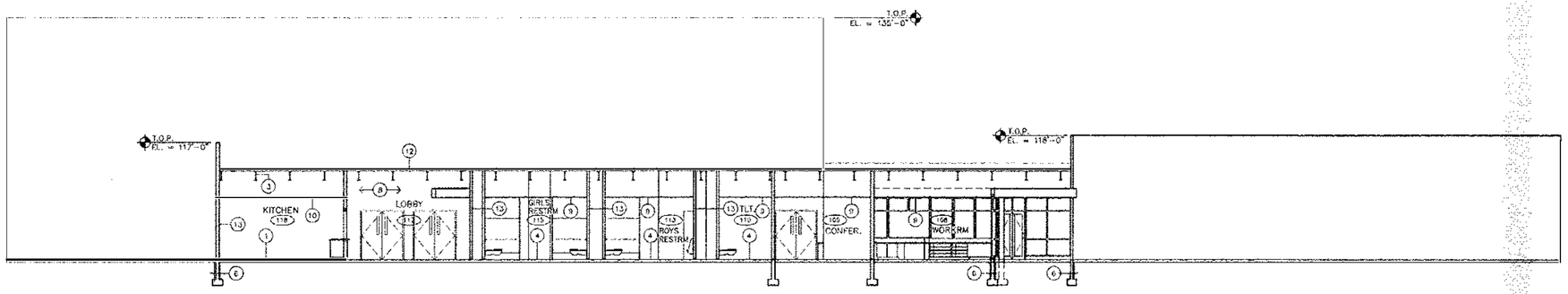
3295102-00
DATE: OCT. 7, 1998

A5.1

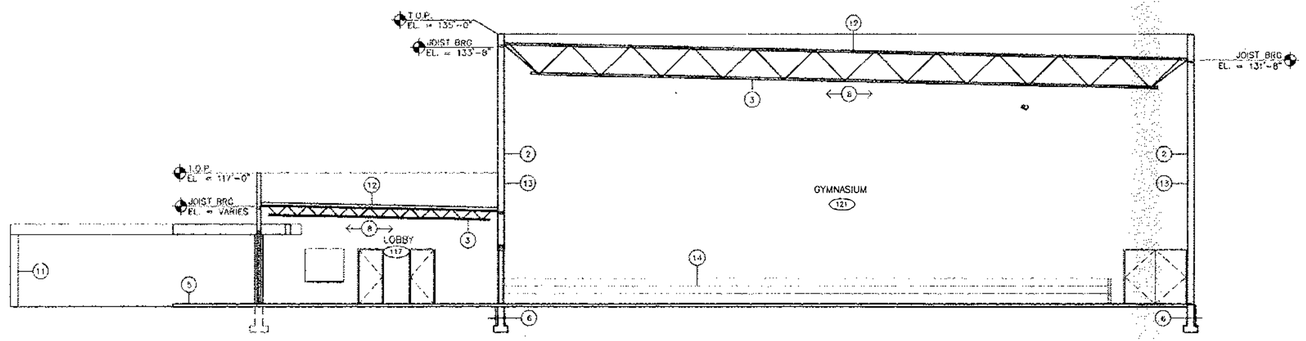
DLR Group



A BUILDING SECTION
SCALE: 1/8" = 1'-0"



B BUILDING SECTION
SCALE: 1/8" = 1'-0"



C BUILDING SECTION
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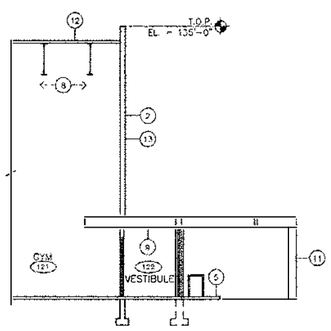
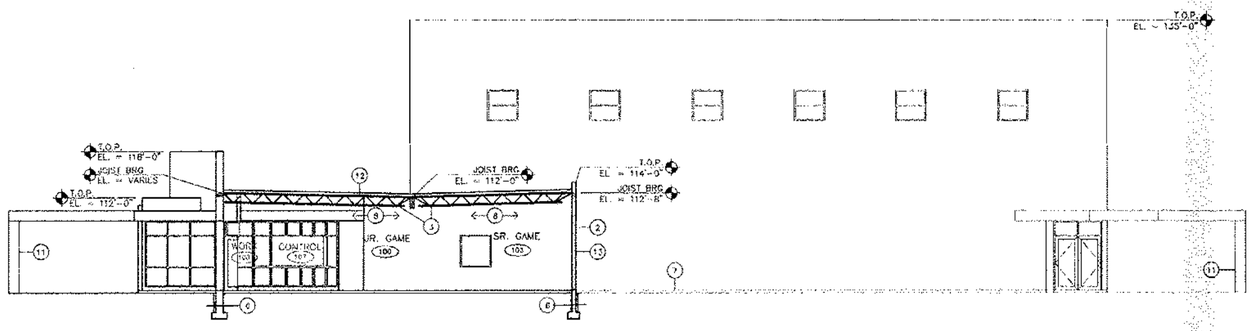


E BUILDING SECTION
SCALE: 1/8" = 1'-0"



D BUILDING SECTION
SCALE: 1/8" = 1'-0"

LEGEND NOTES

1. 4" POST TENSION CONCRETE SLAB.
2. METAL STUD WALL.
3. STEEL ROOF JOIST. SEE STRUCTURAL, TYPICAL.
4. DEPRESS SLAB 1-1/2" FOR CERAMIC TILE.
5. CONCETE STOOP. SEE PLAN.
6. PERIMETER INSULATION.
7. CONCRETE WALK. SEE SITEPLAN.
8. EXPOSED CEILING.
9. GYPSUM BOARD CEILING.
10. ACOUSTIC PANEL CEILING.
11. 12" DIA. STEEL COLUMN.
12. E.P.D.M. SINGLE PLY MEMBRANE ROOFING.
13. SOUND ATTENUATING BATT OR BLANKET INSULATION. SEE WALL TYPES.
14. FUTURE BLEACHERS.

STATE OF NEW MEXICO
GEORGE A TROSKY
1117
REGISTERED ARCHITECT

PHASE 1 AZTEC BOYS AND GIRLS CLUB
NE SAN JUAN CO. FAMILY CENTER - PHASE
BUILDING SECTIONS

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A6.1

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A6-1.dwg 8598 111218

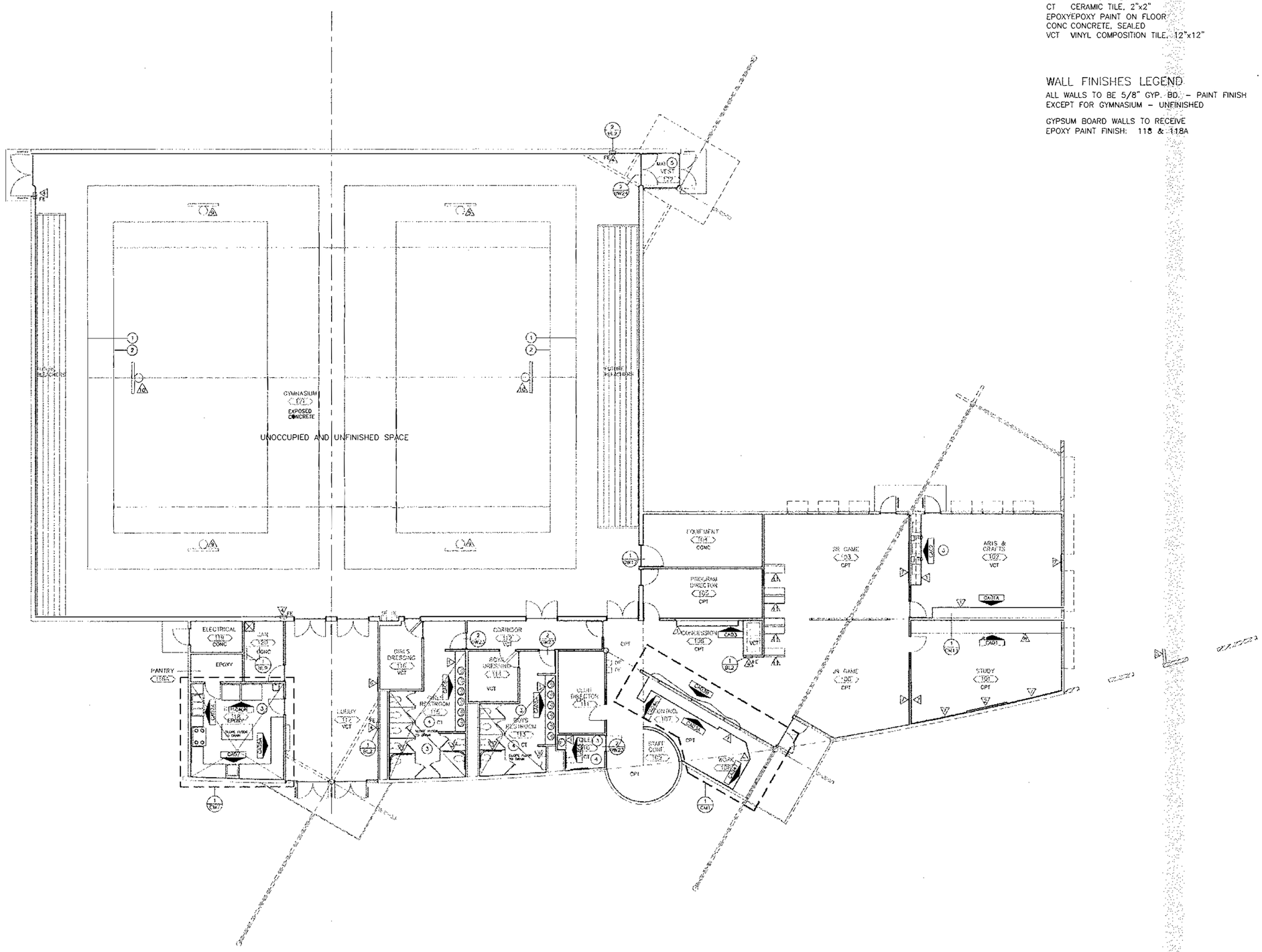
LEGEND

CPT CARPET, DIRECT GLUE-DOWN
CT CERAMIC TILE, 2"x2"
EPOXYEPOXY PAINT ON FLOOR
CONC CONCRETE, SEALED
VCT VINYL COMPOSITION TILE, 12"x12"

WALL FINISHES LEGEND

ALL WALLS TO BE 5/8" GYP. BD. - PAINT FINISH
EXCEPT FOR GYMNASIUM - UNFINISHED

GYPSUM BOARD WALLS TO RECEIVE
EPOXY PAINT FINISH: 118 & 118A



CASEWORK, EQUIPMENT AND FINISHES

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

NORTH

LEGEND NOTES

1. FUTURE COMPLETE BASKETBALL COURT STRIPING. N.I.C.
2. FUTURE COMPLETE VOLLEYBALL COURT STRIPING. N.I.C.
3. FOR WASHROOM AND RELATED ACCESSORIES SEE SHT. A2-1 LARGE SCALE PLANS.
4. DEPRESS SLAB FOR FLOORING. SLOPE TO FLOOR DRAIN. SEE STRUCTURAL SHT. S1.1.
5. DEPRESS SLAB FOR MAT. SEE STRUCTURAL SHT. S1.1.

STATE OF NEW MEXICO
GEORGE A. TROSKY
1117
REGISTERED ARCHITECT
10/29/98

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

NE SAN JUAN CO. FAMILY CENTER - PHASE 1 AZTEC BOYS AND GIRLS CLUB

CASEWORK, EQUIPMENT, AND FINISHES PLAN

3298102-00
DATE: OCT. 7, 1998

A7.1

DLR Group

STRUCTURAL GENERAL NOTES

1. GENERAL:

A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS AND SAFETY OF WORKERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE ALL NECESSARY TEMPORARY SHORING AND BRACING TO SUPPORT ALL LOADS AND PARTS OF THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURE SHOWN ON THE DRAWINGS HAS BEEN DESIGNED FOR STABILITY UNDER COMPLETED CONSTRUCTION CONFIGURATION.

B. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.

C. NO OPENINGS NOR NOTCHES SHALL BE MADE IN ANY STRUC JRAL BEAM, JOIST, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL OR PANEL, FOOTING, OR FOUNDATION WALL WITHOUT THE APPROVAL OF THE ARCHITECT/ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.

D. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

E. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF THE REQUIRED INSERTS WITH THE GENERAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR SUPPORTING STRUCTURE AND INSERTS. MECHANICAL CONTRACTOR SHALL FURNISH ALL NECESSARY STRUCTURES FOR MECHANICAL EQUIPMENT, AND ALL NECESSARY HANGING DEVICES AND INSERTS FOR INSTALLATION OF MECHANICAL EQUIPMENT.

F. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CHASES, SLEEVES, OPENINGS, DUCTS, ETC., AS REQUIRED.

G. WHERE CONFLICTS OCCUR BETWEEN SPECIFICATIONS, NOTES, REFERENCED CODES, AND WORKING DRAWINGS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.

H. SECTIONS AND DETAILS NOT SPECIFICALLY NOTED, SHALL BE CONSTRUCTED PER SECTIONS AND DETAILS SHOWN MOST APPLICABLE.

I. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.

J. SEISMIC RESTRAINT AND SEISMIC BRACING ELEMENTS FOR NON STRUCTURAL ITEMS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ITEMS' APPLICABLE DRAWINGS AND SPECIFICATIONS FOR SUCH WORK.

K. SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT FOR REVIEW. POORLY EXECUTED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.

2. DESIGN CRITERIA:

BUILDING CODES AND STANDARDS:

1991 UNIFORM BUILDING CODE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 9TH EDITION, "MANUAL OF STEEL CONSTRUCTION, ASD"
AMERICAN CONCRETE INSTITUTE 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
AMERICAN IRON AND STEEL INSTITUTE, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS"
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, "TIMBER CONSTRUCTION MANUAL"
"NEW MEXICO ADOBE CODE"

3. DESIGN LOADS:

A. LIVE LOADS:
ROOFS: 25 PSF

B. DEAD LOADS:
ROOF: 20 PSF

C. WIND LOADS: IN ACCORDANCE WITH UBC "1991" CODE
75 MPH BASIC WIND SPEED
CQ = 1.3, I = 1, QS = 14.5
PRESSURE = 0' - 15' 20.0 PSF
15' - 20' 21.3 PSF
20' - 25' 22.4 PSF
25' - 30' 23.2 PSF
30' - 40' 24.7 PSF

D. SEISMIC LOADING: IN ACCORDANCE WITH UBC "1991" CODE
ZONE 2B
Z = 0.2
C = 2.75
RW = 4
(TENSION BRACING)

E. SOIL ALLOWABLE: SOIL BEARING = 4000 PSF

4. MATERIALS:

A. CONCRETE: F'C = 3000 PSI

B. STEEL:

1. STRUCTURAL STEEL:	ASTM A36
2. STRUCTURAL STEEL TUBING:	ASTM A500,GR B
3. STEEL PIPE:	ASTM A53, TYPE E OR S, GR B
4. BOLTS (UNLESS OTHERWISE NOTED):	ASTM A325
5. LIGHTGAGE METAL FRAMING (STUDS, HEADERS, STRAPS):	ASTM A507 18 GA. GR 33 16 GA. AND HEAVIER GR 50
6. METAL DECK:	ASTM A446 OR A611 GR C
7. LAG BOLTS:	FED. SPEC. FF-B-561
8. CONCRETE/MASONRY ANCHORS:	ASTM A307
9. CONCRETE/MASONRY REINFORCEMENT:	ASTM A615 GR 60
10. CONCRETE/MASONRY EXPANSION ANCHORS:	FED. SPEC. FF-S-325.

C. MASONRY:
1. CONCRETE MASONRY UNITS (CMU): F'M = 1900 PSI (NET AREA) ASTM C90, GR N-1
2. MORTAR: 1900 PSI ASTM C270, TYPE S
3. GROUT: 2000 PSI ASTM C476

5. CONCRETE NOTES:

A. SPECIFICATIONS:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301.
2. ALL HOT WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 305.
3. ALL COLD WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 306.

B. FOOTINGS:

1. UNLESS DIMENSIONED OTHERWISE, CENTER CONTINUOUS FOOTINGS ON WALL.
2. WHERE COLUMN AND WALL FOOTINGS INTERSECT, CAST THESE MONOLITHIC AND CONTINUE WALL FOOTING REINFORCING THROUGH THE COLUMN FOOTING.
3. CENTER COLUMN FOOTINGS ABOUT COLUMN CENTER LINES BOTH WAYS, UNLESS DIMENSIONED OTHERWISE.
4. UNLESS OTHERWISE NOTED, WHERE COLUMNS AND WALLS COINCIDE, PLACE MONOLITHICALLY AND RUN HORIZONTAL WALL REINFORCING CONTINUOUS THROUGH COLUMNS.
5. UNLESS OTHERWISE NOTED, WHERE CONCRETE ELEMENTS ABUT, DOWELL THE ELEMENTS TOGETHER USING HEAVIER REBAR OF THE TWO ELEMENTS ACROSS THE JOINT. PROVIDE MINIMUM OF 30 BAR DIAMETERS EMBEDMENT OR STANDARD HOOK DOWELS (WHERE REQUIRED BY GEOMETRY) ON EACH SIDE OF JOINT.

C. CONCRETE REINFORCING:

1. PROVIDE VERTICAL DOWELS IN CONTINUOUS FOOTING, SAME SIZE AND SPACING AS THE VERTICAL WALL STEEL.
2. FOR OPENINGS 1'-0" AND LARGER IN WALLS AND STRUCTURAL SLABS UNLESS NOTED, PROVIDE NO. 5 X 4'-0" ALL CORNERS, TWO NO. 5 AT EACH SIDE, TOP AND BOTTOM.
3. UNLESS OTHERWISE NOTED PROVIDE CORNER BARS THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING AT THE CORNERS AND INTERSECTION OF ALL WALLS, BEAMS, AND FOOTINGS.
4. UNLESS OTHERWISE NOTED, REBAR SPLICES SHALL BE 40 BAR DIAMETER LAP SPLICES. AT ALL BEAMS AND STRUCTURAL SLABS, REINFORCING SPLICES SHALL BE LAPPED A MINIMUM OF 2'-0". FOR THE TOP REINFORCING STEEL, THE SPLICE SHALL BE PLACED AT THE MIDSPAN. FOR THE BOTTOM REINFORCING STEEL, THE SPLICE SHALL BE PLACED OVER THE BEARING POINT OF THE BEAM OR SLAB.

D. CONSTRUCTION JOINTS:

1. UNLESS OTHERWISE NOTED, CONSTRUCTION JOINTS FOR STRUCTURAL SLABS (INCLUDING COMPOSITE DECK SLABS), BEAMS AND GRADE BEAMS SHALL BE LOCATED AT MIDSPAN. CONTINUE REINFORCING THROUGH CONSTRUCTION JOINT UNLESS NOTED OTHERWISE. SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS TO ENGINEER FOR REVIEW.

E. SLABS ON GRADE

1. CONCRETE MIX DESIGN

A. USE THE LARGEST ALLOWABLE COARSE AGGREGATE SIZE IN ACCORDANCE WITH THE FOLLOWING:

4" SLAB 1" MAXIMUM AGGREGATE
5" OR MORE 1 1/2" MAXIMUM AGGREGATE

B. DO NOT EXCEED 5" CONCRETE SLUMP AT POINT OF PLACEMENT.

2. PROVIDE 1'-6" X 1'-6" X 8" DEEP THICKENED SLAB W/ 2#4 EACH WAY AT ALL STAIR STRINGER AND STAIR COLUMN BEARING LOCATIONS.
3. UNLESS NOTED OTHERWISE, PROVIDE THICKENED SLAB PER TYPICAL THICKENED SLAB DETAIL AT ALL INTERIOR MASONRY PARTITIONS. REFER TO ARCHITECTURAL FOR ALL MASONRY PARTITIONS AND LOCATIONS.
4. WHERE THICKENED SLAB IS INTERRUPTED BY SLAB JOINT, PROVIDE 2 #4 DOWELS THROUGH JOINT WITH PAPER SLEEVE AND GREASE FOR DOWELS ON ONE SIDE OF JOINT, UNLESS NOTED OTHERWISE.
5. REFER TO ARCHITECTURAL AND PLUMBING DRAWINGS FOR FLOOR DRAINS, FLOOR SLOPES AND RECESSED AREAS.
6. SLABS ON GRADE SHALL HAVE A "CLASS A" TOLERANCE UNLESS NOTED OTHERWISE.
7. BEGIN SPECIFIED CURING OPERATIONS IMMEDIATELY AFTER FINAL TROWELING.

F. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR CAST-IN-PLACE CONCRETE REINFORCEMENT, UNLESS NOTED OTHERWISE.

	MINIMUM COVER, IN.
1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...	3
2. CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THROUGH #11 BARS......	2
#5 BAR AND SMALLER	1-1/2
3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
SLABS, WALLS, JOISTS: #11 BAR AND SMALLER	3/4
BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1-1/2

4. FOR SINGLE MAT OF REINFORCING IN SLABS AND WALLS, PLACE REINFORCING IN CENTER UNLESS OTHERWISE DIMENSIONED.

G. FINISHES

1. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES AND REQUIRED RECESSES FOR FINISHES.

6. POST TENSION SLAB ON GRADE NOTES:

A. CONCRETE STRENGTH:
F'C = 3000 PSI AT 28 DAYS.
F'C = 2400 PSI AT TIME OF FINAL STRESSING.
F'C = 1000 PSI AT TIME OF PARTIAL (25%) STRESSING.

B. POST TENSION TENDONS SHALL BE 1/2" DIAMETER 270K LOW RELAXATION STRANDS.

JACKING FORCE = 33 KIPS PER TENDON
ANCHORING FORCE = 28.9 KIPS PER TENDON

C. CONCRETE SHALL BE CAREFULLY RODDED BEHIND TENDON ANCHORS. PROVIDE #4 CONTINUOUS REBAR BEHIND ALL ANCHORAGES WITH 24" MINIMUM LAP SPLICES AND CORNER BARS AT ALL CORNERS.

D. ALL INTERSECTIONS OF TENDONS SHALL BE SECURED TO PREVENT TENDON MOVEMENT. PROVIDE SUPPORT CHAIR AT ALL INTERSECTIONS. ALL TENDONS AND MILD STEEL REINFORCING SHALL BE SECURED AND SUPPORTED TO WITHIN PLUS OR MINUS 3/8" TOLERANCE.

E. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

F. PROVIDE 1 SET OR 5 CYLINDERS FOR COMPRESSION TESTS PER 50 CUBIC YARDS OF CONCRETE POURED.

G. TENDON SUPPLIER SHALL PROVIDE SHOP DRAWINGS SHOWING ELONGATION AND TENDON JACKING FORCE.

H. ALL JACKS USED SHALL BE ACCOMPANIED BY CALIBRATION SHEETS CORRELATING HYDRAULIC PRESSURE TO TENDON FORCE.

I. ALL BREAKS IN THE TENDON SHEATHING MATERIAL SHALL BE REPAIRED WITH TAPE PRIOR TO CONCRETE PLACEMENT. THE INTERSECTION BETWEEN THE TENDON SHEATHING AND THE ANCHORAGE DEVICE SHALL BE TAPED TO PREVENT GROUT ENTRANCE INTO THE WEDGE HOLES.

J. PARTIAL STRESSING (25% OF FINAL STRESSING FORCE) TO REDUCE SHRINKAGE CRACKING SHALL BE DONE AT 24 HOURS AFTER SLAB FINISHING. IN COLD WEATHER CONDITIONS, USE SET ACCELERATORS (NOT CONTAINING CALCIUM CHLORIDE) TO ACHIEVE ADEQUATE STRENGTH FOR PARTIAL STRESSING. VERIFY EARLY STRENGTH WITH TEST CYLINDER BREAKS USING FIELD CURED SPECIMENS.

K. A DESIGNATED REPRESENTATIVE OF THE OWNER SHALL BE PRESENT DURING THE STRESSING OPERATION TO VERIFY PRESTRESSING FORCE APPLICATIONS THROUGH GAUGE PRESSURE READINGS AND TENDON ELONGATIONS. THE DESIGNATED REPRESENTATIVE SHALL ALSO VERIFY THAT THE TENDON FORCE INDICATED BY GAUGE PRESSURE READINGS COMPARES WITHIN 10 PERCENT OF THE TENDON FORCE INDICATED BY TENDON ELONGATIONS. TENDON FORCE VARIATIONS INDICATED BY GAUGE PRESSURE AND ELONGATION IN EXCESS OF 10 PERCENT SHALL BE REPORTED TO THE DESIGN ENGINEER FOR REVIEW AND RECOMMENDED REMEDIAL ACTION.

L. PROJECTING ENDS OF STRANDS SHALL BE BURNED OFF AFTER STRESSING HAS BEEN PROPERLY COMPLETED AND APPROVED BY OWNER'S REPRESENTATIVE. CLEARANCE FROM THE END OF THE STRAND TO THE EDGE OF THE SLAB SHALL BE APPROXIMATELY 1 INCH. CARE SHALL BE TAKEN TO PREVENT OVERHEATING OF THE WEDGES WHEN BURNING OFF STRAND. STRESSING POCKETS SHALL BE GROUTED WITHIN 7 DAYS OF THE FINAL STRESSING OPERATION TO PREVENT CORROSION OF THE ANCHOR AND WEDGE ASSEMBLY.

7. LIGHTGAGE METAL FRAMING:

A. ALL LIGHTGAGE METAL FRAMING SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONSIDERED AS STRUCTURAL LOAD BEARING METAL FRAMING.

B. FABRICATION OF ALL LIGHTGAGE METAL FRAMING SHALL COMPLY WITH THE REQUIREMENTS IN AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".

C. FRAMING COMPONENTS MAY BE PREFABRICATED INTO PANEL PRIOR TO ERECTION.

D. STUDS SHALL NOT BE SPLICED. STUDS SHALL FIT SECURELY INTO TOP AND BOTTOM TRACKS WITH THE END OF THE STUD POSITIONED AGAINST THE INSIDE TRACK WEB. WEB CUTOUTS ARE NOT PERMITTED WITHIN 12" OF EITHER END OF STUDS OR LINTELS. ALL FRAMING MEMBERS SHALL BE CUT SQUARELY OR AT AN ANGLE AS REQUIRED, TO FIT SECURELY AGAINST ABUTTING MEMBERS. ATTACHMENT OF COMPONENTS SHALL BE ACCOMPLISHED BY WELDING, UNLESS OTHERWISE NOTED ON DRAWINGS.

E. TRACKS SHALL BE ANCHORED TO THE SUPPORTING STRUCTURE TO TRANSFER IMPOSED LOADS. COMPLETE, UNIFORM, AND LEVEL BEARING SUPPORT SHALL BE PROVIDED FOR THE BOTTOM TRACK AT EACH STUD LOCATION IN WALLS. ALL TRACK BUTT JOINTS EXCEPT FOUNDATION LEVEL, SHALL BE FULLY BUTT WELDED TOGETHER.

F. PROVIDE DOUBLE STUD HEADERS PER DETAILS WHEREVER A STUD IS INTERRUPTED AT AN OPENING. USE MINIMUM 8"-16 GA UNLESS OTHERWISE NOTED ON SCHEDULE.

G. UNLESS OTHERWISE NOTED OR DETAILED, MINIMUM REQUIRED SECTION PROPERTIES FOR STUDS:

SIZE	I in⁴	S in⁴
3 5/8"X18 GA.	0.68	0.36
3 5/8"X16 GA.	0.84	0.43
4"X18 GA.	0.86	0.41
4"X16 GA.	1.06	0.49
6"X18 GA.	2.23	0.71
6"X16 GA.	2.76	0.86
8"X18 GA.	4.46	1.07
8"X16 GA.	5.54	1.30
8"X14 GA.	6.89	1.66
10"X14 GA.	14.035	2.753

H. ALL LOAD BEARING JOISTS AND/OR UPPER LEVEL LOAD BEARING STUDS SHALL BE DIRECTLY ALIGNED OVER LOAD BEARING STUD(S) BELOW, UNLESS OTHERWISE NOTED OR DETAILED.

I. PROVIDE LATERAL SUPPORT BRACING PER MANUFACTURER'S DIRECTIONS. UNLESS GIVEN MORE STRINGENT REQUIREMENTS BY MANUFACTURER, PROVIDE 1 1/2"x20 GA. CONTINUOUS ROWS. SCREW TO EACH STUD W/ #8 WAFER HEAD SELF-DRILLING SCREW AND SPACED AT 4'-0" ON CENTER MAXIMUM.

8. STEEL FRAMING NOTES:

A. STRUCTURAL STEEL SHALL BE SHOP FABRICATED IN ACCORDANCE WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION. WELDING SHALL COMPLY WITH AWS 1.1 "STRUCTURAL WELDING CODE".

B. FIELD CONNECTIONS OF STRUCTURAL STEEL SHALL BE ACCOMPLISHED BY BOLTING, USING HIGH STRENGTH BOLTS IN ACCORDANCE WITH AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS" (UNLESS OTHERWISE INDICATED).

C. STEEL CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE THE FABRICATOR'S STANDARD CONNECTIONS AND SHALL BE IN ACCORDANCE WITH THE AISC SPECIFICATIONS. ALL BOLTED CONNECTIONS SHALL CONTAIN AT LEAST 2 BOLTS PER CONNECTED MEMBER.

D. PROVIDE MIN. 3/16" CAP PLATE WELDED TO END OF ALL STRUCTURAL PIPES, TUBES AND PRISMATIC SECTIONS, UNLESS OTHERWISE NOTED.

E. UNLESS OTHERWISE NOTED, ALL JOISTS SUPPORTING THE FLOOR OR ROOF DECK SHALL BE FIELD WELDED TO SUPPORTING MEMBERS OR TO PRESET BEARING PLATES, EXCEPT WHERE SJI OR OTHER GOVERNING CODES OR AGENCIES REQUIRE BOLTED CONNECTION.

F. UNLESS OTHERWISE NOTED OR DETAILED, PROVIDE HORIZONTAL AND/OR CROSS BRIDGING AT ALL STEEL JOISTS IN ACCORDANCE WITH SJI SPECIFICATIONS AND OTHER GOVERNING CODES AND AGENCIES.

G. CAMBER ALL STEEL JOISTS PER STEEL JOIST INSTITUTE'S RECOMMENDED APPROXIMATE CAMBER TABLES.

H. JOIST MANUFACTURER SHALL DESIGN ALL JOIST EXTENDED ENDS AND JOIST EXTENSIONS FOR SPECIFIED DISTRIBUTED ROOF OR FLOOR LOADS PLUS WEIGHT OF WALLS, PARAPETS, FASCIA AND/OR SOFFITS SUPPORTED BY THE EXTENSIONS. WHERE REQUIRED FOR STRENGTH OR DEFLECTION, PROVIDE INCREASED JOIST BEARING DEPTH. IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY REQUIRED BEARING DEPTH INCREASES. DEFLECTION CRITERIA UNLESS NOTED OTHERWISE ARE: LIVE LOAD DEFL. NOT TO EXCEED L/360 AND TOTAL LOAD DEFL. NOT TO EXCEED L/240.

I. UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS STRUCTURAL ANGLE SUPPORT AT ALL METAL DECK EDGES, DISCONTINUITIES OR SPAN DIRECTION CHANGES.

J. ALL OPENINGS IN STEEL DECKING HAVING A DIMENSION OF 1'-0" OR GREATER PERPENDICULAR TO THE DECK SPAN SHALL BE FRAMED BY 5"x3"x3/8" ANGLES, LONG LEG VERTICAL, UNLESS NOTED OTHERWISE. ANGLES SHALL BE WELDED TO THE TOP CHORD OF JOISTS. PLACE LOADS AT PANEL POINTS OR FIELD WELD 1-1/2"x1-1/2"x3/16" ANGLE FROM POINT OF LOAD TO NEAREST PANEL POINT OF BOTTOM CHORD.

K. METAL DECK CONNECTIONS:

1. TYPE 'B' DECK TO OPEN WEB JOISTS
   A. 5/8" DIAM. PUDDLE WELDS AT 12" O.C. AT DECK EDGES AND END SUPPORTS
   B. 5/8" DIAM. PUDDLE WELDS AT 12" O.C. AT INTERMEDIATE SUPPORTS
   C. TEKS #10 SCREWS AT 24" O.C. MAX. AT SIDELAPS

MECHANICAL FASTENERS MAY BE SUBSTITUTED FOR PUDDLE WELDS WHERE EQUIVALENT DIAPHRAGM STRENGTH CAN BE DEMONSTRATED. SUBMIT MANUFACTURER'S TECHNICAL AND INSTALLATION DATA FOR REVIEW BY ENGINEER.

DECK GAUGE	DECK SPAN	FRAME FASTENING	STITCH CONNECTORS	DESIGN SHEAR
22	4'-0"	36/4	2	305 PLF
22	5'-0"	36/4	3	290 PLF
22	6'-0"	36/4	3	250 PLF
20	4'-0"	36/4	2	370 PLF
20	5'-0"	36/4	3	350 PLF
20	6'-0"	36/4	3	300 PLF

L. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY A QUALIFIED INDEPENDENT TESTING LABORATORY. CONTRACTOR SHALL PAY FOR SUCH TESTING.

9. CMU NOTES:

A. UNLESS OTHERWISE NOTED, PROVIDE GALVANIZED STANDARD TRUSS TYPE DUR-O-WAL AT ALTERNATE COURSES FOR HORIZONTAL REINFORCING IN C.M.U. PROVIDE CONTINUOUS BOND BLOCK CONCRETE FILLED WITH TWO NO. 5 CONTINUOUS AT TOP OF ALL MASONRY WALLS AND CONTINUOUS ALL SIDES AT ALL JOIST BEARING ELEVATIONS. EXTEND VERTICAL REINFORCING THRU BOND BLOCK COURSES UNLESS OTHERWISE NOTED.

B. UNLESS OTHERWISE NOTED OR DETAILED, VERTICAL REINFORCING ALL CONCRETE MASONRY WALLS SHALL BE: "ASTM-A615-60".

ALL CMU WALLS SHALL BE REINFORCED AS FOLLOWS, UNLESS OTHERWISE NOTED:

NO. 5 REBAR.
3 VERTICALS AT ALL CORNERS.
1 VERTICAL AT END OF ALL DISCONTINUOUS WALL RUNS.
1 VERTICAL EACH SIDE OF ALL MASONRY WALL OPENINGS.
1 VERTICAL AT 32" O.C. IN ALL STRAIGHT WALL RUNS.
1 VERTICAL EACH SIDE OF ALL CONTROL JOINTS.
PROVIDE VERTICAL DOWELS SAME AS VERTICAL BARS TOP AND BOTTOM OF EACH VERTICAL EXTENDING 30 DIA. INTO ABUTTING CONSTRUCTION 40 DIA. INTO CONCRETE FILLED CELLS.

C. UNLESS OTHERWISE SHOWN, PROVIDE MASONRY CONTROL JOINTS, NO. 8 WIDE FLANGE RAPID CONTROL JOINT IN MASONRY WALLS AT THE FOLLOWING LOCATIONS: AT 12'-0" FROM ALL CORNERS, AT 32'-0" O.C. IN ALL STRAIGHT WALL RUNS.

D. ALL MASONRY WORK SHALL HAVE A MINIMUM OF 1/2" CLEARANCE TO STEEL CONSTRUCTION.

STRUCTURAL EARTHWORK NOTES

THE BUILDING FOUNDATIONS HAVE BEEN BASED UPON THE RECOMMENDATIONS OF THE REPORT BY WESTERN TECHNOLOGIES, INC., "GEOTECHNICAL EVALUATION - FAMILY CENTER", AZTEC NEW MEXICO. REPORT 3127JC155, DATED SEPT 26, 1997 AND SUBSEQUENT LETTERS DATED FEB 4 AND FEB 10, 1998.

THE BUILDING AREA (ALL PHASES) HAS BEEN OVER EXCAVATED TO PARTIALLY REMOVE PREVIOUSLY EXISTING CLAY SOILS AND VARIOUS LOW DENSITY SOILS, WITH REPLACEMENT CONSISTING OF COMPACTED ENGINEERED FILL. STRUCTURAL EARTHWORK FOR THIS CONTRACT SHALL INLCUDE FINE GRADING OF FOUNDATION SLAB SUBGRADE, TRENCHING AND BACKFILLING AS REQUIRED TO ACCOMPLISH THE NEW WORK.

1. THE GEOTECHNICAL ENGINEER SHALL ACT AS THE OWNER'S REPRESENTATIVE AND SHALL MAKE OBSERVATIONS AND TESTS AS CONSIDERED NECESSARY FOR QUALITY CONTROL. WHERE FLOOR SLABS ARE TO BE SUPPORTED ON ENGINEERED FILL, CONTINUOUS OBSERVATIONS AND TESTS OF GRADING OPERATIONS SHALL BE MADE BY THE GEOTECHNICAL ENGINEER. ALL TESTS SHALL BE PERFORMED IN ACCORDANCE WITH PROCEDURES SET FORTH IN THE CURRENT BOOK OF STANDARDS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM). THE CONTRACTOR SHALL PAY FOR ALL SUCH TESTING AND OBSERVATION.

2. ALL BACKFILL MATERIAL SHALL BE NON-EXPANSIVE, FREE OF VEGETATION AND CONTAIN NO ROCKS LARGER THAN 6 INCHES. GRADATION OF THE BACKFILL MATERIAL, AS DETERMINED IN ACCORDANCE WITH ASTM D-422, SHALL BE AS FOLLOWS:

GRADATION OF BACKFILL MATERIAL

SIEVE SIZE	PERCENT PASSING
3 INCH	90-100
NO. 4	50-100
NO. 200	10-40

THE PLASTICITY INDEX SHALL NOT EXCEED 8 WHEN TESTED IN ACCORDANCE WITH ASTM D-4318. EXPANSION POTENTIAL SHALL NOT EXCEED 1.5 PERCENT.

FROZEN SOIL SHALL NOT BE USED AS STRUCTURAL FILL AND NO STRUCTURAL FILL SHALL BE PLACED OVER FROZEN GROUND.

3. FILL OR BACKFILL, CONSISTING OF SOIL APPROVED BY THE GEOTECHNICAL ENGINEER, SHALL BE PLACED IN CONTROLLED COMPACTED LAYERS WITH APPROVED COMPACTION EQUIPMENT. SCARIFIED EXISTING SUBGRADE AND GRANULAR NON EXPANSIVE STRUCTURAL FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT IN THE RANGE OF OPTIMUM TO 3 PERCENT ABOVE OPTIMUM, AS EVALUATED BY ASTM D698 (STANDARD PROCTOR). THICKNESS OF COMPACTED LIFTS SHALL NOT EXCEED 8 INCHES. ALL COMPACTION SHALL BE TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-698-91 (STANDARD PROCTOR) TEST METHOD.

4. TESTS FOR DEGREE OF COMPACTION SHALL BE DETERMINED BY THE ASTM D-1556 METHOD OR ASTM D-2922. OBSERVATION AND FIELD TESTS SHALL BE CARRIED ON DURING FILL AND BACKFILL PLACEMENT BY THE GEOTECHNICAL ENGINEER TO ASSIST THE CONTRACTOR IN OBTAINING THE REQUIRED DEGREE OF COMPACTION.

5. COMPLY WITH REQUIREMENTS OF OSHA AND OTHER GOVERNING AGENCIES FOR ALL EXCAVATION AND TRENCHING. IT SHALL SOLELY BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE SUCH REQUIREMENTS.

6. WHEREVER, IN THE OPINION OF THE GEOTECHNICAL ENGINEER, AN UNSTABLE CONDITION IS BEING CREATED, EITHER BY CUTTING OR FILLING, THE WORK SHALL NOT PROCEED IN THAT AREA UNTIL AN INVESTIGATION HAS BEEN MADE AND THE GRADING PLAN REVISED IF FOUND NECESSARY.

7. PRECAUTIONS SHALL BE TAKEN DURING AND AFTER CONSTRUCTION TO MINIMIZE SATURATION OF THE FOUNDATION SOILS. POSITIVE DRAINAGE SHALL BE ESTABLISHED AWAY FROM THE EXTERIOR WALLS OF THE STRUCTURE FOR A DISTANCE OF AT LEAST 15 FT. AT A MIN. GRADE OF 4 PERCENT. ALL UTILITY TRENCHES LEADING INTO THE BUILDING SHALL BE BACKFILLED WITH COMPACTED, ENGINEERED FILL. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF SUBFLOOR SEWER AND WATERLINES TO REDUCE THE POSSIBILITY OF FUTURE SUBSURFACE SATURATION. HIGH WATER USE LANDSCAPING ADJACENT TO THE STRUCTURE SHOULD BE MINIMIZED.

8. THE CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION BEGINS. IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY ARCHITECT/ENGINEER IMMEDIATELY.

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3298102-00
DATE: OCT 7, 1998

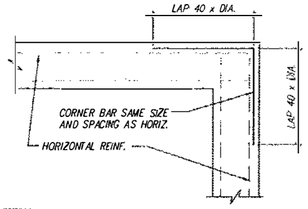
STRUCTURAL - GENERAL NOTES & EARTHWORK

NE SAN JUAN COUNTY - PHASE 1 AZTEC BOYS AND GIRLS CLUB

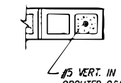
DLR Group

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

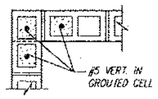
S0.1



1/S02 TYPICAL CORNER AT CONCRETE FOOTINGS AND WALLS

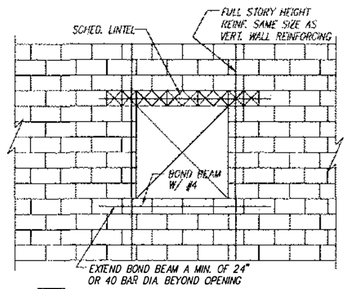


AT DISCONTINUOUS WALL RUNS



AT CORNERS

2/S02 TYP CMU WALL REINFORCING



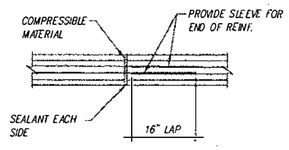
3/S02 TYP. OPENING IN CMU WALL REINFORCING ELEVATION

CMU LINTEL SCHEDULE (UNLESS OTHERWISE DRAWN OR NOTED) *

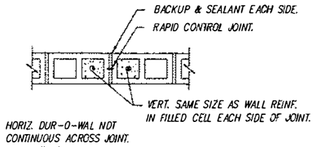
MAX. SPAN	BLK. SIZE	TOP REINF.	BOTT. REINF.	REMARKS
3'-0"	8x8		2 #6	24" BEARING EA END
4'-0"	8x8		2 #5	24" BEARING EA END
6'-0"	8x16	2 #5	2 #5	24" BEARING EA END
8'-0"	8x16	2 #6	2 #6	32" BEARING EA END
10'-0"	8x16	2 #6	2 #7	48" BEARING EA END

6" AND 12" CMU WALLS - BM. WIDTH 6" AND 12" RESPECTIVELY
TOP BARS SHALL HOOK 90 AT ENDS

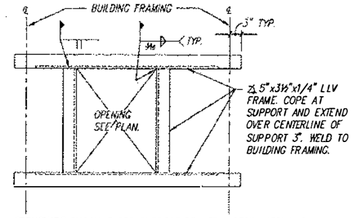
* PER UBC 91 2407(H) 3.8



4/S02 TYPICAL CONTROL JOINT AT BOND BEAM



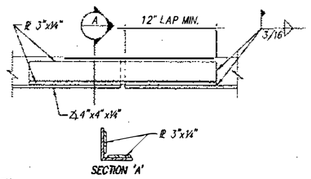
5/S02 TYPICAL MASONRY WALL CONTROL JOINT (M.C.J.)



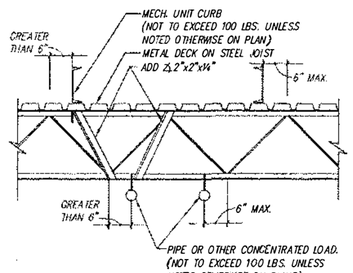
STRUCTURE SHOWN IS FOR SUPPORT OF METAL DECK. MECHANICAL UNITS MAY REQUIRE ADDITIONAL SUPPORT TO DISTRIBUTE LOADS TO THE BUILDING FRAME. COORD. W/ MECH. DRAWINGS AND MECH. UNIT MANUFACTURER RECOMMENDATIONS.

6/S02 TYP. METAL DECK OPENING SUPPORT

(APPLIES AT ALL OPENINGS IN METAL DECK HAVING A MAX. DIMENSION OF 1'-0" OR LARGER)

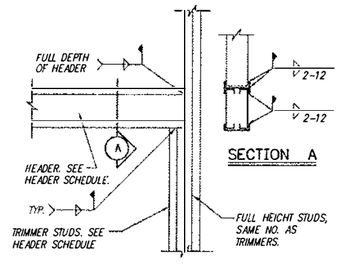


7/S02 TYPICAL DECK ANGLE SPLICE



NOTE:
ALL CONCENTRATED LOADS TO THE STEEL JOIST SHALL BE CONNECTED WITHIN 6" OF THE JOIST TOP OR BOTTOM CHORD PANEL POINT. ADD A DIAGONAL ANGLE WHERE THE CONCENTRATED LOAD IS NOT WITHIN 6" OF A TOP OR BOTTOM CHORD PANEL POINT.

11/S07 STL. JST.-CONCENTRATED LOADS

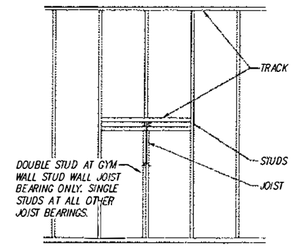


5/S02 TYPICAL HEADER BEARING DETAIL

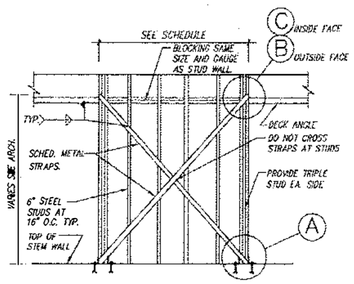
STEEL STUD HEADER SCHEDULE

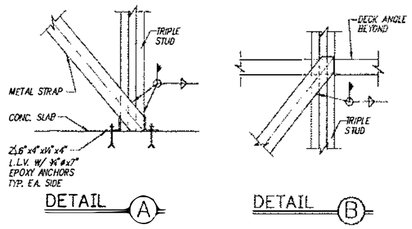
OPENING	SIZE	GAUGE	S_x IN.^{3}	I_x IN.^{4}	TRIMMERS EA. SIDE
LESS THAN 4'-0"	2-6"	16 GA.	2.00	6.06.	1 STUD
4'-0" TO 6'-0"	2-8"	16 GA.	3.04	12.20	2 STUDS
6'-0" TO 8'-0"	2-10"	14 GA.	5.12	25.60	2 STUDS
8'-0" TO 10'-0"	2-12"	14 GA.	8.54	51.20	2 STUDS
*10'-0" TO 12'-0"	2-12"	14 GA.	8.54	51.20	2 STUDS

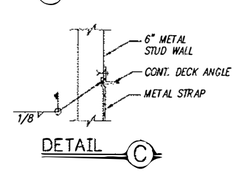
* AT NON- BEARING WALLS ONLY U.N.O



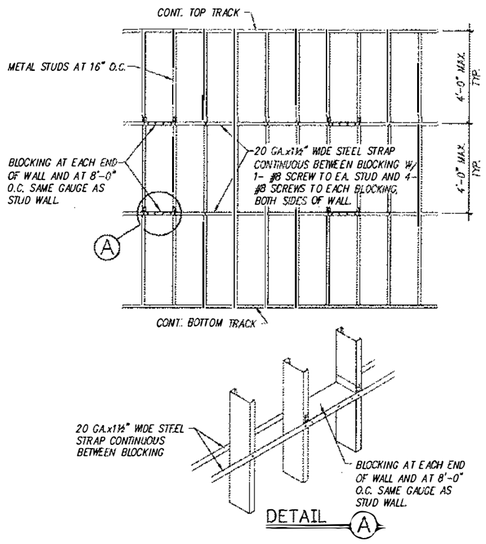
16/S02 TYP. JOIST BEARING DETAIL



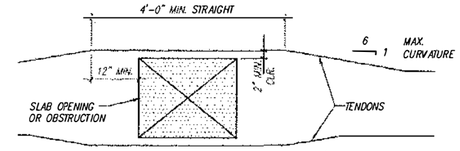




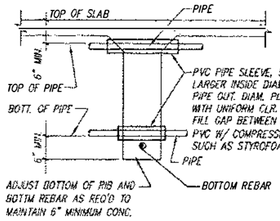
11/S07 TYPICAL STEEL CROSS BRACING SHEAR WALL ELEVATION



12/S02 TYPICAL FLAT STRAP LATERAL BRACING ELEVATION



13/S02 TYP. TENDON LAYOUT AT OPENINGS OR OBSTRUCTIONS - PLAN VIEW



14/S02 TYP. DETAIL AT PIPE PENETRATION THROUGH P/T SLAB RIB

ABBREVIATIONS and SYMBOLS

∠	ANGLE
A.B.	ANCHOR BOLT
ALT.	ALTERNATE
ARCH.	ARCHITECTURAL
B/F	BOTTOM OF FOOTING
BF or b_f	BEAM FLANGE WIDTH
BM.	BEAM
B.O.S.	BOTTOM OF STRUCTURAL STEEL
BRDG.	BRIDGING
C/C OR O.C.	CENTER TO CENTER
℄	CENTER LINE
C.J.	CONSTRUCTION JOINT
C.I.P.	CAST IN PLACE
C.J.T.S.	CONST. JOINT AT THICKENED SLAB
CLR.	CLEAR
CMU.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONT.	CONTINUOUS
COORD.	COORDINATE
CTR. JT.	CONTRACTION JOINT
D.	DEPTH
DBL.	DOUBLE
DIA.	DIAMETER
DIR.	DIRECTION
DWLS.	DOWELS
E.E.	EACH END
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
EA.	EACH
ELEV.	ELEVATION or ELEVATOR
EXP. A.B.	EXPANSION ANCHOR BOLT
EXP. JOINT	EXPANSION JOINT
F.D.	FLOOR DRAIN
F.G.	FINISH GRADE
F.S.	FAR SIDE
F.F.	FINISH FLOOR ELEVATION
FND.	FOUNDATION
FTG.	FOOTING
GA.	GAUGE
GB.	GRADE BEAM
G.C.	GENERAL CONTRACTOR
G.C.M.	GROUTED CORE MASONRY
G.L.	GLU-LAM
GR.	GRADE
GALV.	GALVANIZED
H.A.S.	HEADED ANCHOR STUDS
H.C.M.	HOLLOW CORE MASONRY
H.P.	HIGH POINT
HK.	HOOK
HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
ISO.	ISOLATION
J/B	JOIST BEARING
JST.	JOIST
JT.	JOINT
L.L.H.	LONG LEG HORIZONTAL
L.LOS.	LONG LEG OUTSTANDING
L.L.V.	LONG LEG VERTICAL
L.P.	LOW POINT
L.W.	LONG WAY
M.C.J.	MASONRY CONTROL JOINT
M.D.	METAL DECK
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NO.	NUMBER
N.S.	NEAR SIDE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPG.	OPENING
P.J.	PANEL JOINT
PL. OR ▭	PLATE
P/P	PANEL POINT TO PANEL POINT
P/T	POST TENSION
P.C.	PRECAST CONCRETE
P.C.P.	PRECAST CONCRETE PLANK PANEL
PL.	PLATE
REINF.	REINFORCING
S.F. OF S/F	STEP FOOTING
S.J.	STEEL JOIST
S.L.H.	SHORT LEG HORIZONTAL
SLHS	SHORT LEG OUTSTANDING
S.L.V.	SHORT LEG VERTICAL
STD.	STANDARD
S.U.	STEP UP
S.W.	SHORT WAY
SCHED.	SCHEDULED
STL.	STEEL
T.B.	TIE BEAM
THKL.	THICKENED SLAB
THK.	THICK or THICKNESS
T.C.	TOP CHORD OF TRUSS
T.C.C.	TOP OF CONCRETE COLUMN
T.C.W.	TOP OF CONCRETE WALL
T.D.	TURN DOWN SLAB
T.F. OR T/F	TOP OF FOOTING
T.J.	TOOLED JOINT
T.O.P OR T/P	TOP OF PARAPET
T.O.J.	TOP OF JOIST
T.O.S.	TOP OF STRUCTURAL STEEL
T.P.	TOP OF PILE
T.P.C.	TOP OF PILE CAP
T.S.	TUBE STEEL
T.O.W. OR T/W	TOP OF WALL
T. & B	TOP AND BOTTOM
TR.	TRUSS
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
V.L.	VENEER LEDGE
VER.	VERIFY
VERT. OR V.	VERTICAL
W/	WITH
WD.	WOOD
W.P.	WORKING POINT
WT.	WEIGHT
WWF	WELDED WIRE FABRIC

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

NE SAN JUAN COUNTY - PHASE 1 AZTEC BOYS AND GIRLS CLUB

STRUCTURAL - TYPICAL DETAILS & ABBREVIATIONS

3298102-00
DATE: OCT 7, 1998

S0.2

JAMES F. KREIS, NEW MEXICO, 10266, REGISTERED PROFESSIONAL ENGINEER

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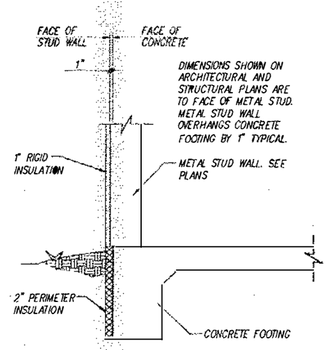
SHEAR WALL SHEDULE			
MARK	LENGTH	STRAP WIDTH & GAGE	NOTES
⟨1⟩	12'-8"	4"x18 GA.	
⟨2⟩	10'-0"	4"x16 GA.	
⟨3⟩	12'-0"	4"x16 GA.	
⟨4⟩	10'-0"	5"x16 GA.	
⟨5⟩	12'-0"	5"x16 GA.	
⟨6⟩	10'-0"	6"x16 GA.	
⟨7⟩	12'-0"	6"x16 GA.	
⟨8⟩	12'-8"	6"x14 GA.	
⟨9⟩	20'-0"	6"x14 GA.	
⟨10⟩	21'-4"	6"x14 GA.	
⟨11⟩	24'-0"	6"x14 GA.	



TYPICAL EXTERIOR DIMENSION SECTION

POST-TENSION FOUNDATION PLAN

SCALE: 1/8" = 1'-0" FIN. FLR. ELEV. = 104.50' = 100'-0"

- ○ INDICATES 12"ø STD. STEEL PIPE UNLESS NOTED OTHERWISE.
- • INDICATES H.S.S. 3½"x3½"x¼" COLUMN.
- T/F INDICATES TOP OF FOOTING ELEVATION
- ⟨X⟩ INDICATES 'X' BRACE SHEAR WALL. SEE SCHEDULE FOR SIZE OF STRAP AND LENGTH.

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS
NE SAN JUAN COUNTY - PHASE 1 AZTEC BOYS AND GIRLS CLUB
FOUNDATION PLAN

3298102-00
DATE: OCT 7, 1998

S1.1

JAMES C. KRUG NEW MEXICO 9920 REGISTERED PROFESSIONAL ENGINEER
10-1-98

DLR Group

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Engineers • Surveyors
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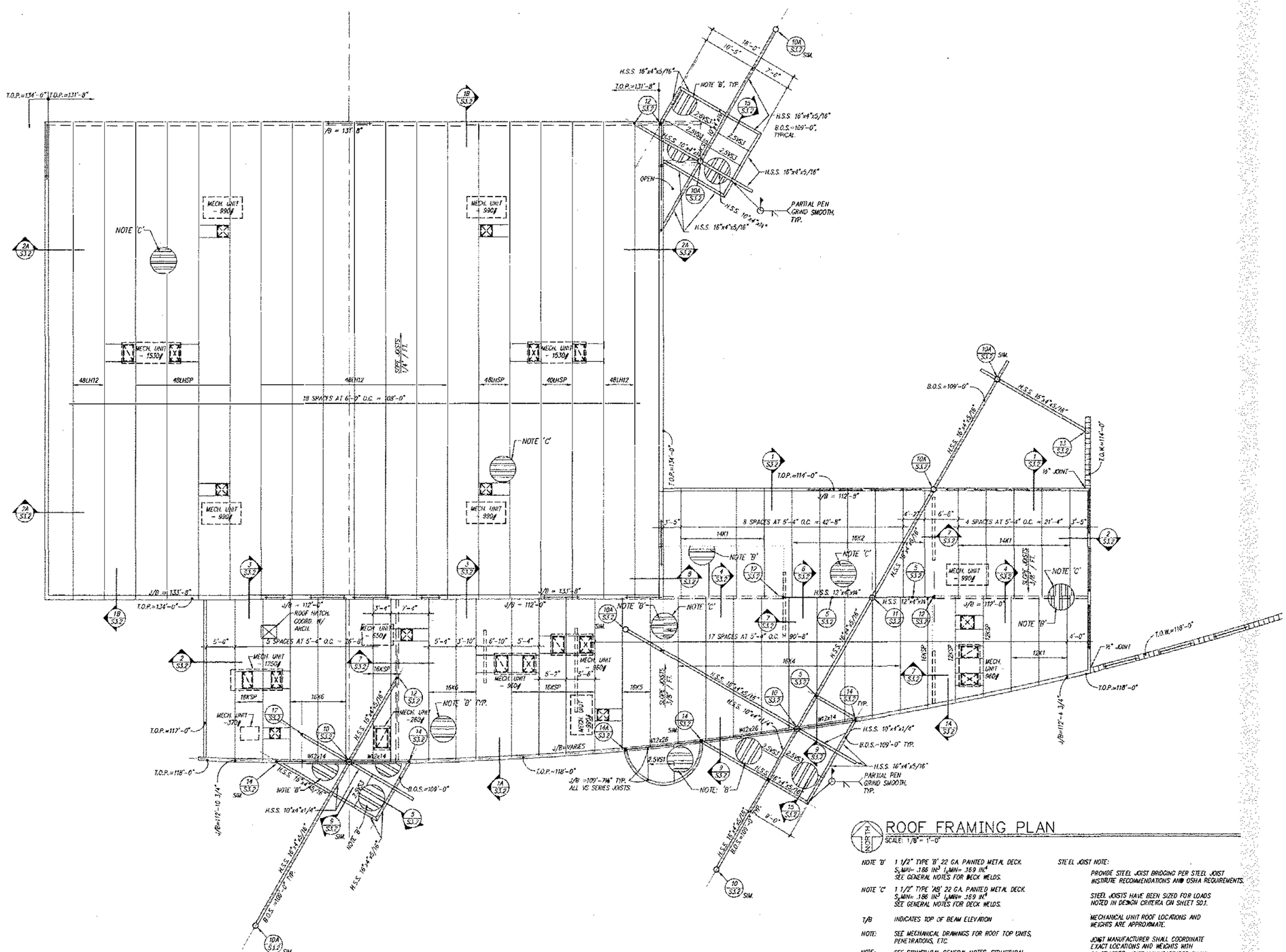

ROOF FRAMING PLAN

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

NOTE 'B' 1 1/2" TYPE 'B' 22 GA. PAINTED METAL DECK. S_x MIN= .186 IN^3 I_x MIN= .169 IN^4 SEE GENERAL NOTES FOR DECK WELDS.

NOTE 'C' 1 1/2" TYPE 'AB' 22 GA. PAINTED METAL DECK. S_x MIN= .186 IN^3 I_x MIN= .169 IN^4 SEE GENERAL NOTES FOR DECK WELDS.

T/B INDICATES TOP OF BEAM ELEVATION

NOTE: SEE MECHANICAL DRAWINGS FOR ROOF TOP UNITS, PENETRATIONS, ETC.

NOTE: SEE STRUCTURAL GENERAL NOTES, STRUCTURAL EARTHWORK NOTES, AND TYPICAL DETAILS LOCATED AT THE BEGINNING OF THE STRUCTURAL DRAWINGS. THESE NOTES AND DETAILS ARE APPLICABLE WHETHER OR NOT DIRECT REFERENCE TO THEM IS MADE ELSEWHERE.

STEEL JOIST NOTE:

PROVIDE STEEL JOIST BRIDGING PER STEEL JOIST INSTITUTE RECOMMENDATIONS AND OSHA REQUIREMENTS.

STEEL JOISTS HAVE BEEN SIZED FOR LOADS NOTED IN DESIGN CRITERIA ON SHEET S0.1.

MECHANICAL UNIT ROOF LOCATIONS AND WEIGHTS ARE APPROXIMATE.

JOIST MANUFACTURER SHALL COORDINATE EXACT LOCATIONS AND WEIGHTS WITH CONTRACTOR. JOIST MANUFACTURER SHALL PROVIDE SPECIAL OR DOUBLE JOISTS UNDER MECH. EQUIPMENT AS REQUIRED.

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S2.1

3298102-00
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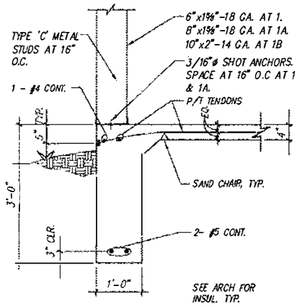
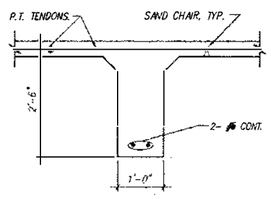
ROOF FRAMING PLAN

NE SAN JUAN COUNTY - PHASE 1 AZTEC BOYS AND GIRLS CLUB

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS



SECTION
SCALE : 3/4" = 1'-0" (1 S3.1) (1A S3.1) (1B S3.1)



SECTION
SCALE : 3/4" = 1'-0" (2 S3.1)

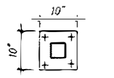
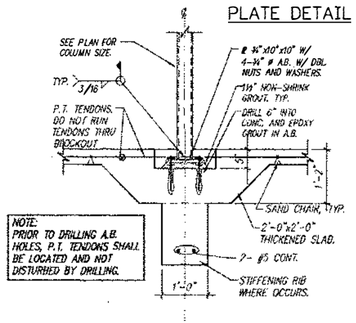
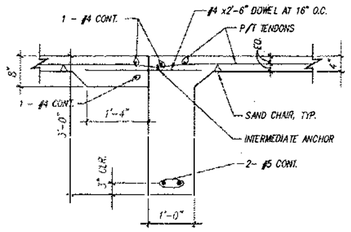


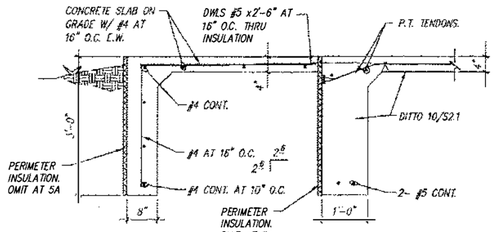
PLATE DETAIL



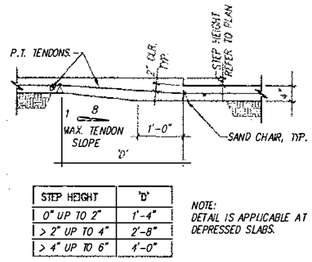
DETAIL
SCALE : 3/4" = 1'-0" (3 S3.1)



SECTION
SCALE : 3/4" = 1'-0" (4 S3.1)



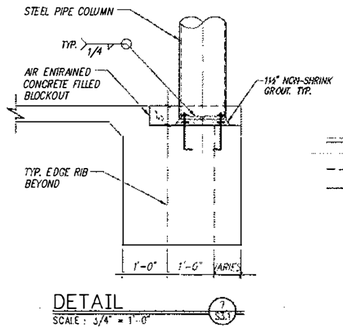
SECTION
SCALE : 3/4" = 1'-0" (5 S3.1) (5A S3.1)



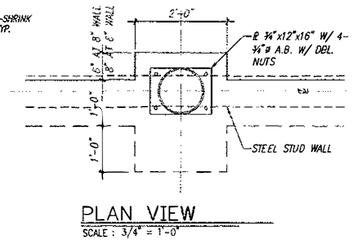
STEP HEIGHT	'D'
0" UP TO 2"	1'-4"
> 2" UP TO 4"	2'-8"
> 4" UP TO 6"	4'-0"

NOTE: DETAIL IS APPLICABLE AT DEPRESSED SLABS.

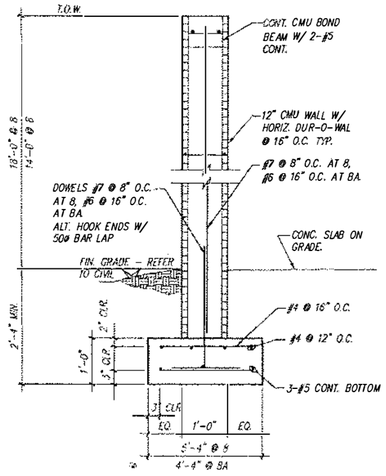
SECTION
SCALE : 3/4" = 1'-0" (6 S3.1)



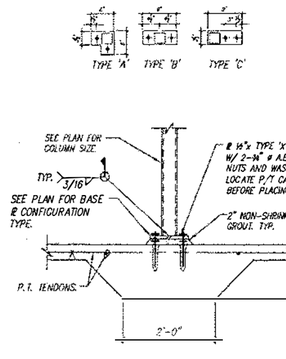
DETAIL
SCALE : 3/4" = 1'-0" (7 S3.1)



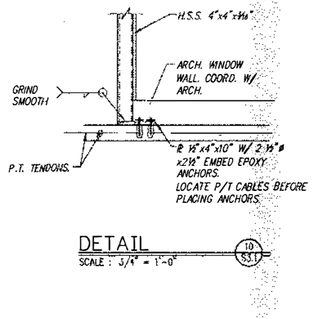
PLAN VIEW
SCALE : 3/4" = 1'-0"



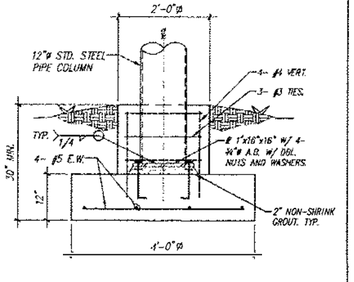
SECTION
SCALE : 3/4" = 1'-0" (8 S3.1) (8A S3.1)



DETAIL
SCALE : 3/4" = 1'-0" (9 S3.1)



DETAIL
SCALE : 3/4" = 1'-0" (10 S3.1)



DETAIL
SCALE : 3/4" = 1'-0" (11 S3.1)

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

NE SAN JUAN COUNTY - PHASE 1 AZTEC BOYS AND GIRLS CLUB

STRUCTURAL DETAILS - FOUNDATION

3269102-00
DATE: OCT 7, 1998

S3.1

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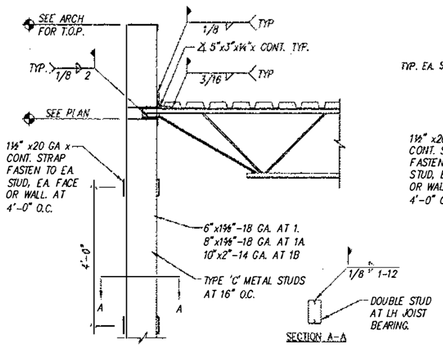
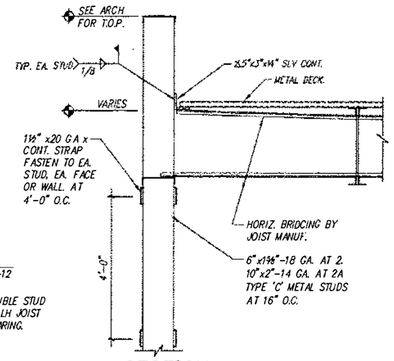
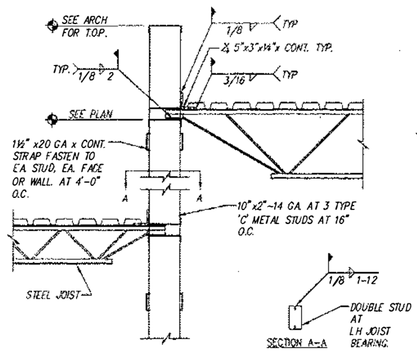


SECTION 1 S3.2 1A S3.2 1B S3.2
SCALE : 3/4" = 1'-0"



SECTION 2 S3.2 2A S3.2
SCALE : 3/4" = 1'-0"



SECTION 3 S3.2
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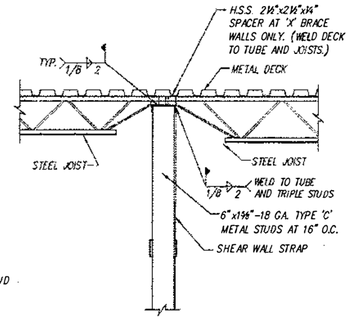
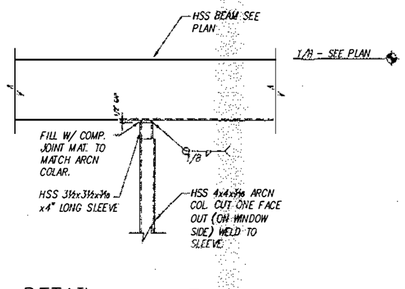
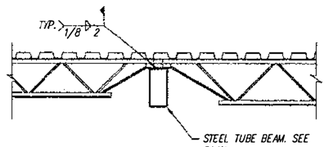


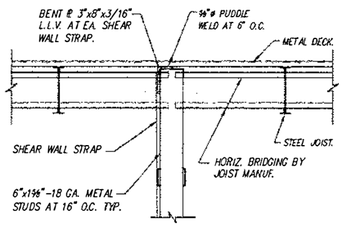
SECTION 4 S3.2
SCALE : 3/4" = 1'-0"



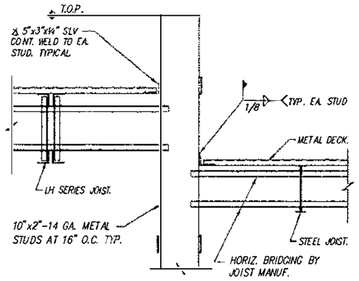
DETAIL 5 S3.2
SCALE : 3/4" = 1'-0"



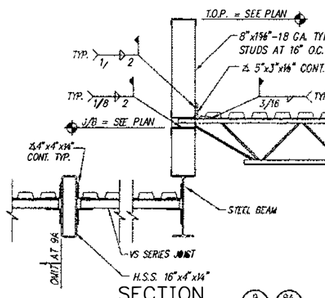
SECTION 6 S3.2
SCALE : 3/4" = 1'-0"



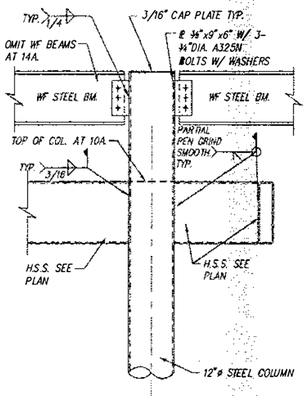
SECTION 7 S3.2
SCALE : 3/4" = 1'-0"



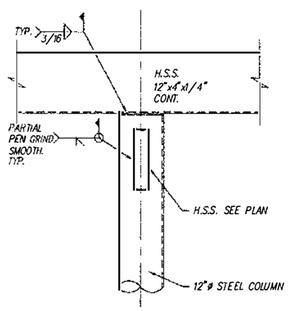
SECTION 8 S3.2
SCALE : 3/4" = 1'-0"



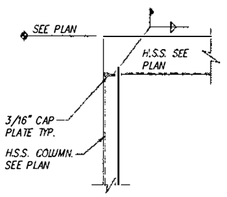
SECTION 9 S3.2 9A S3.2
SCALE : 3/4" = 1'-0"



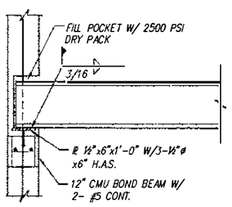
DETAIL 10 S3.2 10A S3.2
SCALE : 3/4" = 1'-0"



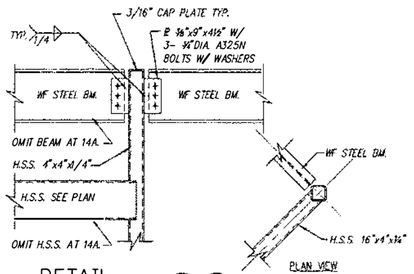
DETAIL 11 S3.2
SCALE : 3/4" = 1'-0"



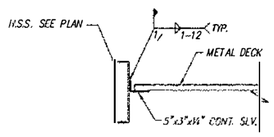
DETAIL 12 S3.2
SCALE : 3/4" = 1'-0"



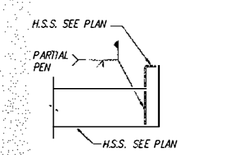
DETAIL 13 S3.2
SCALE : 3/4" = 1'-0"



DETAIL 14 S3.2 14A S3.2
SCALE : 3/4" = 1'-0"



SECTION 15 S3.2
SCALE : 3/4" = 1'-0"



SECTION 16 S3.2
SCALE : 3/4" = 1'-0"

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JAMES E. KREIS NEW MEXICO 8928 REGISTERED PROFESSIONAL ENGINEER
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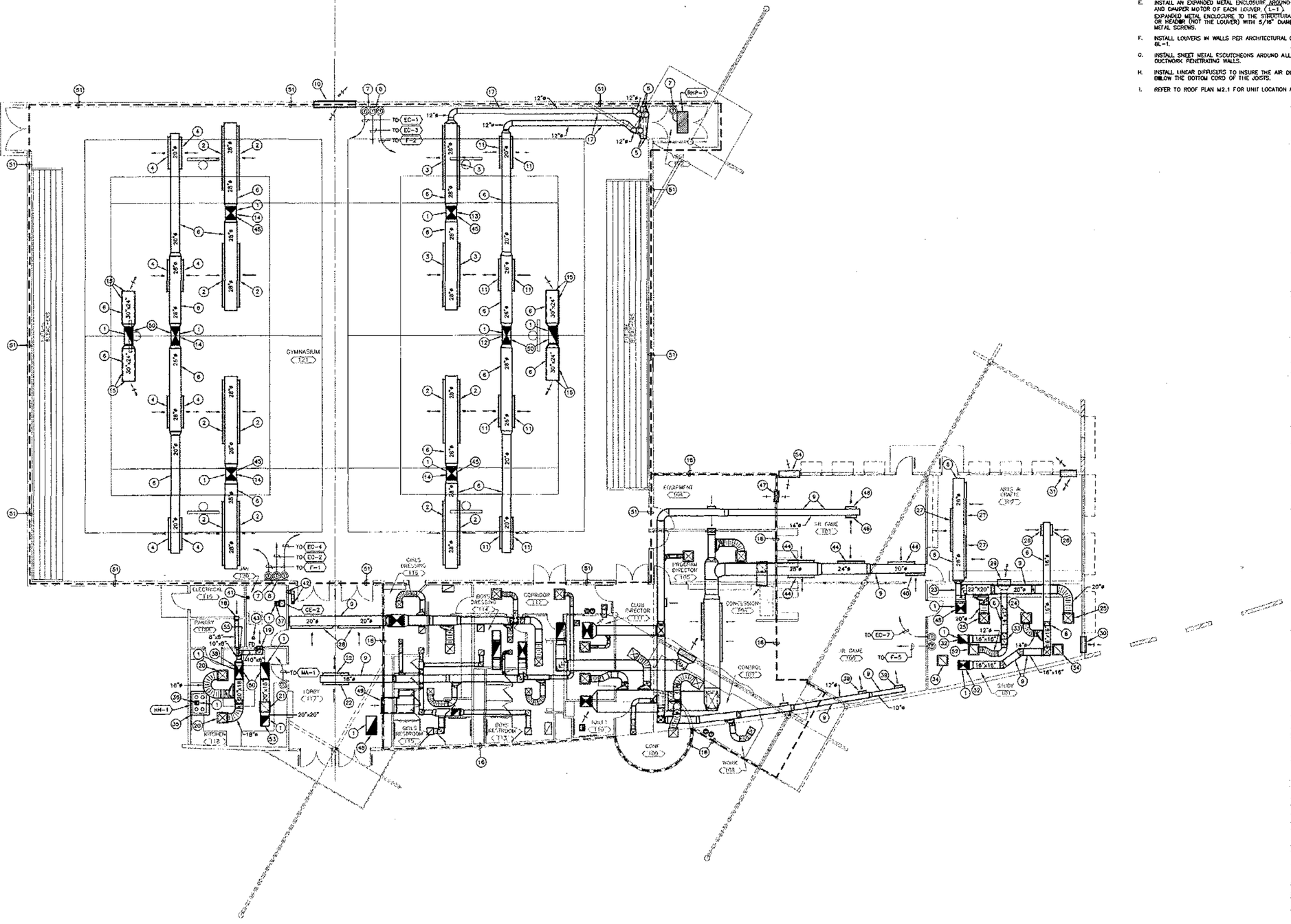

HVAC FLOOR PLAN

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

0 4 8 12

NORTH

GENERAL NOTES :

A. INSTALL ALL CONCEALED DUCT TAKE-OFF'S PER DETAIL 1/M1.1/M3.1.

B. SUSPEND ALL EXPOSED ROUND DUCTWORK PER DETAIL 2/M1.1/M3.1.

C. INSTALL SUPPLY DIFFUSERS PER DETAIL 3/M1.1/M3.1.

D. ALL CEILING MOUNTED RETURN GRILLES SHALL BE INSTALLED PER DETAIL 4/M1.1/M3.1.

E. INSTALL AN EXPANDED METAL ENCLOSURE AROUND THE DAMPER AND DAMPER MOTOR OF EACH LOUVER, (L-1). ATTACH EXPANDED METAL ENCLOSURE TO THE STRUCTURAL WALL STUDS OR HEADER (NOT THE LOUVER) WITH 5/16" DIAMETER SHEET METAL SCREWS.

F. INSTALL LOUVERS IN WALLS PER ARCHITECTURAL DETAIL 6L-1.

G. INSTALL SHEET METAL ESCUTCHEONS AROUND ALL EXPOSED DUCTWORK PENETRATING WALLS.

H. INSTALL LINEAR DIFFUSERS TO INSURE THE AIR DISCHARGES BELOW THE BOTTOM CORD OF THE JOISTS.

I. REFER TO ROOF PLAN M2.1 FOR UNIT LOCATION AND NUMBERS.

KEYED NOTES :

1. SEE MECHANICAL ROOF PLAN, SHEET M2.1 FOR CONTINUATION.
2. (LD-1) 2,450 CFM, 4 SLOT X 12 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
3. (LD-1) 2,330 CFM, 4 SLOT X 12 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
4. (LD-1) 1,125 CFM, 4 SLOT X 6 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
5. (LD-2) 480 CFM 6 FT. X 2-1/2" NECK. INSTALL GRILLE AT 10'-4" ABOVE FINISHED FLOOR DISCHARGING DOWNWARD.
6. RUN DUCTWORK BETWEEN THE ROOF JOISTS, JUST BELOW BOTTOM OF ROOF DECK, TYPICAL.
7. INSTALL THERMOSTAT ON A 1" THICK WOOD INSULATING BLOCK.
8. INSURE THE THERMOSTATS ARE PROPERLY SPACED TO ACCOMMODATE THE EASY REMOVAL OF THE LOCKING THERMOSTAT GUARDS.
9. RUN DUCTWORK TIGHT TO BOTTOM OF ROOF JOISTS, TYPICAL.
10. (L-1) 8'-0"x 9'-0" NECK. INSTALL LOUVER IN WALL WITH TOP OF LOUVER JUST BELOW THE ROOF STRUCTURE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. INTERLOCK LOUVER WITH (EC-1) THRU (EC-4).
11. (LD-1) 1,065 CFM, 4 SLOT x 6 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE.
12. INSTALL A 53%/47% SPLITTER WITH TURNING VANES.
13. INSTALL A 52%/48% SPLITTER WITH TURNING VANES.
14. INSTALL A 50%/50% SPLITTER WITH TURNING VANES.
15. INSTALL AN EXPANDED METAL GRILLE OVER THE RETURN DUCT OPENING, AND INSTALL 1" THICK ACOUSTICAL LINING IN THE RETURN AIR DUCTWORK.
16. SEE PARTIAL HVAC PLAN, SHEET M1.2 FOR ADDITIONAL INFORMATION IN THIS AREA.
17. RUN DUCTWORK THRU THE JOIST WEBBING ANGLE BRACES, TYPICAL.
18. (SR-1) 200 CFM, 10"x 6" NECK.
19. (SR-1) 300 CFM, 14"x 6" NECK.
20. (D-1) 1,300 CFM, 18"x 18" NECK, 4-WAY THROW.
21. (RG-1) 2,600 CFM, 22"x 22" NECK.
22. (LD-1) 575 CFM, 3 SLOT x 5 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
23. INSTALL A 56%/42% SPLITTER WITH TURNING VANES.
24. (D-1) 590 CFM, 12"x 12" NECK, 4-WAY THROW.
25. (D-1) 1,755 CFM, 21"x 21" NECK, 4-WAY THROW.
26. (LD-1) 455 CFM, 4 SLOT x 2'-6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
27. (LD-1) 1,620 CFM, 4 SLOT x 8 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
28. (LD-1) 1,730 CFM, 4 SLOT X 8 FT. LONG. INSTALL GRILLE AT 45 DEGREES ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
29. (RG-3) 910 CFM, 30"x 12" NECK. INSTALL WITH BOTTOM OF GRILLE AT 9'- 0" ABOVE FINISHED FLOOR.
30. (L-1) 3'-0"x 2'-0" NECK. INSTALL LOUVER IN WALL WITH TOP OF LOUVER JUST BELOW THE ROOF STRUCTURE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. INTERLOCK LOUVER WITH (EC-7).
31. (L-1) 3'-0"x 2'-6" NECK. INSTALL LOUVER IN WALL WITH TOP OF LOUVER JUST BELOW THE ROOF STRUCTURE. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. INTERLOCK LOUVER WITH (EC-7).
32. DROP A 22"x 20" DUCT DOWN THRU ROOF FROM UNIT ABOVE.
33. RISE DUCT UP BETWEEN THE JOISTS AND INSTALL A 61%/39% SPLITTER WITH TURNING VANES.
34. (RG-1) 22"x 22" NECK.
35. SUPPORT KITCHEN HOOD FROM THE ROOF STRUCTURE.
36. 8"x 8" 16 GAUGE CONTINUOUSLY WELDED STEEL DUCT FROM KITCHEN HOOD DUCT COLLAR THRU ROOF. INSTALL DUCT IN A TWO HOUR RATED SHAFT ENCLOSURE. CONSTRUCT SHAFT ENCLOSURE PER UBC.
37. 6"x 8" EXHAUST DUCT UP FROM CEILING EXHAUSTER THRU ROOF.
38. INSTALL A 16%/84% SPLITTER WITH TURNING VANES.
39. (LD-1) 250 CFM, 4 SLOT x 1'-6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
40. (LD-1) 820 CFM, 4 SLOT x 3'-6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
41. DROP (2) 8"x 3" COMBUSTION AIR DUCTS DOWN THRU THE ROOF. TERMINATE ONE DUCT 6" BELOW THE ROOF DECK AND RUN THE OTHER DUCT ALONG WALL TO 8" ABOVE FINISHED FLOOR. SEE SHEET M2.1 FOR CONTINUATION.
42. 6"x 4" DRYER VENT UP IN WALL, OFFSET VENT DUCT IN CEILING SPACE AND RUN THRU ROOF. INSTALL A 6"x 6" DUCT CLEANOUT WITH ACCESS DOOR AT 6" ABOVE FINISHED FLOOR TO BOTTOM OF DOOR. SEE SHEET M2.1 FOR CONTINUATION.
43. 4"ø FLUE UP FROM WATER HEATER AND THRU ROOF. SEE SHEET M2.1 FOR CONTINUATION.
44. (LD-1) 1,000 CFM, 4 SLOT x 5 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
45. DROP THE 26"x 28" DUCT THRU ROOF AND SPLIT DUCT, WHERE INDICATED, WITH A SPLITTER AND TURNING VANES.
46. (LD-1) 390 CFM, 4 SLOT x 2 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
47. (RG-3) 30"x 12" NECK. INSTALL WITH BOTTOM OF GRILLE AT 9'-0" ABOVE FINISHED FLOOR.
48. (RG-2) 24"x 42" NECK. MOUNT GRILLE ON THE BOTTOM OF THE RELIEF AIR DUCT. RUN A 24"x 42" DUCT UP THRU ROOF TO (RH-1) INTERLOCK THE DAMPERS WITH (EC-5).
49. (RG-3) 36"x 20" NECK. INSTALL GRILLE AT 9'-0" ABOVE FINISHED FLOOR TO BOTTOM OF GRILLE OPENING.
50. DROP A 36"x 20" DUCT DOWN THRU ROOF FROM UNIT ON ROOF.
51. WORK WITHIN THIS AREA IS PART OF ADDITIVE ALTERNATE No.3.
52. (RG-1) 22"x 10" NECK.
53. 20"x 20" DUCT UP THRU ROOF TO UTILITY SET.
54. (L-1) 4'-0"x 6'-0" NECK. INSTALL LOUVER IN WALL WITH TOP OF LOUVER EVEN WITH THE WINDOW CANOPIES. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION. INTERLOCK LOUVER WITH (EC-6).
55. INSTALL A 40%/60% SPLITTER WITH TURNING VANES.

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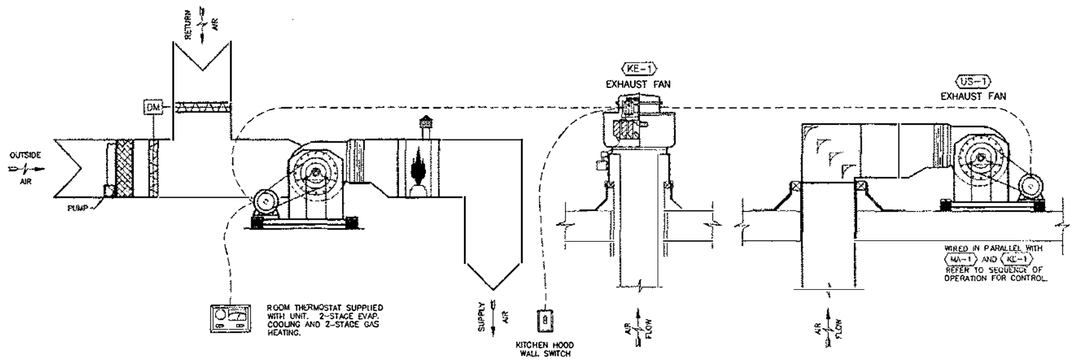
NE SAN JUAN COUNTY FAMILY CENTER

HVAC FLOOR PLAN

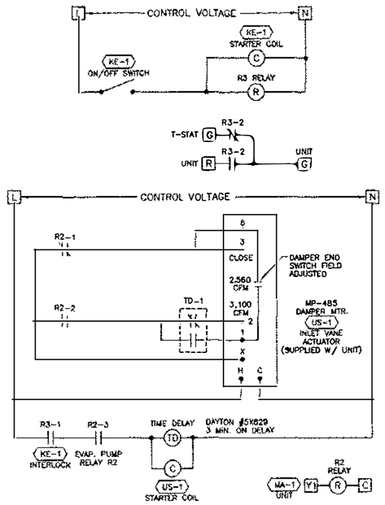
3298102-00
DATE: OCT. 02, 1998

M1.1

DLR Group



MAKE-UP AIR UNIT CONTROL DIAGRAM (MA-1)



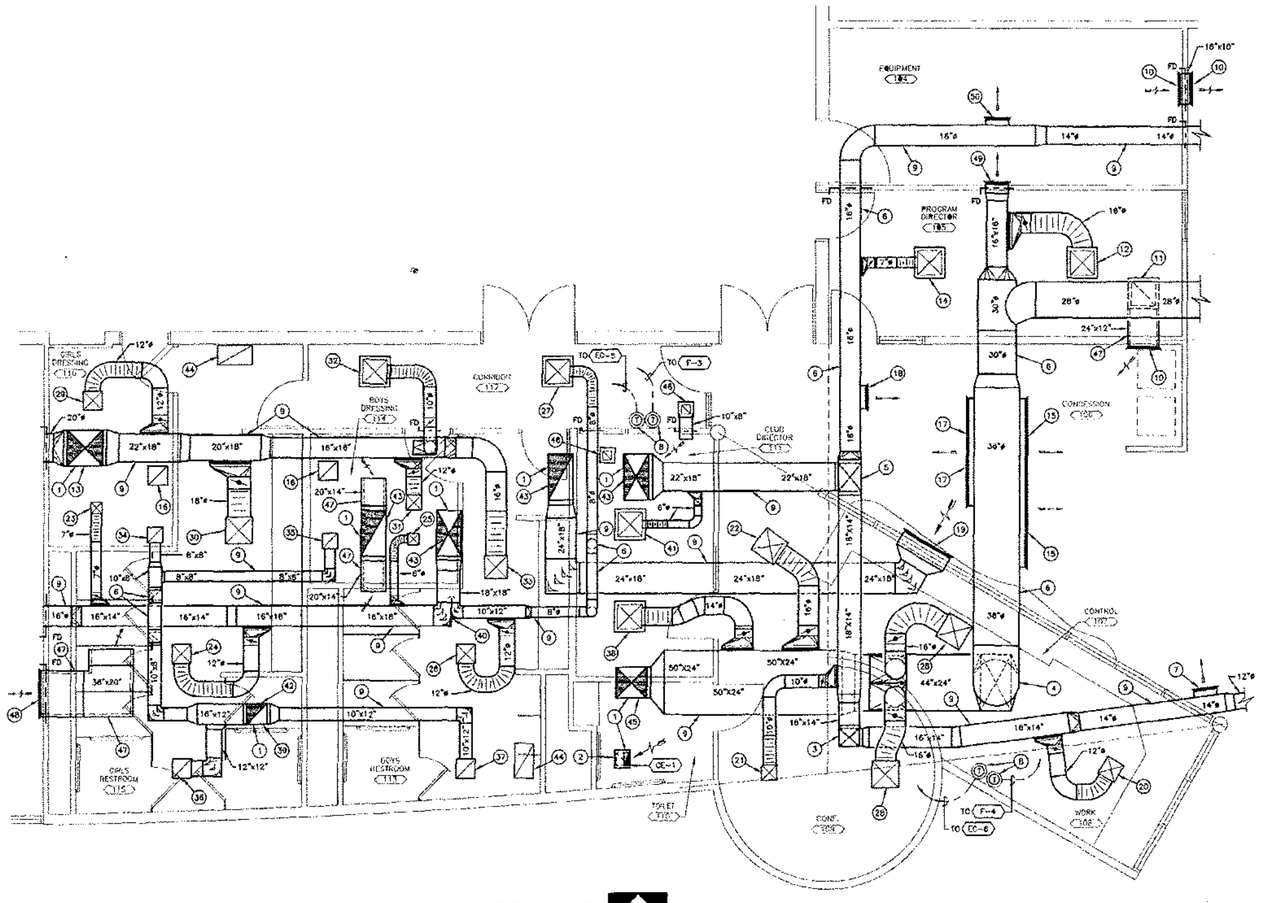
MAKE-UP AIR UNIT LADDER DIAGRAM (MA-1)

SEQUENCE OF OPERATION :

KITCHEN HVAC SYSTEM: (MA-1), (KE-1) and (US-1)

(KE-1), (MA-1) and (US-1) shall be interlocked such that when (KE-1) is activated by the user, (MA-1) will come on even if the thermostat is not in "continuous fan" operation. Also, during the heating season, when (KE-1) is activated, the units outside air dampers will open to a minimum position (540 CFM).

During the cooling season, while (MA-1) is on, (US-1) will operate for air relief at the rate of 3,100 cfm. If (KE-1) is turned to the "on" position during this sequence, then the inlet vanes at (US-1) will close in order to reduce the relief air flow rate to 2,560 cfm.



PARTIAL HVAC FLOOR PLAN

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

0 4 8 12

NORTH

KEYED NOTES :

1. SEE MECHANICAL ROOF PLAN, SHEET M2.1 FOR CONTINUATION.
2. 6"x 8" EXHAUST DUCT UP FROM CEILING EXHAUSTER THRU ROOF.
3. DROP DUCT DOWN FROM BETWEEN THE JOIST AND TURN HORIZONTAL TIGHT TO BOTTOM OF JOISTS.
4. TURN DUCT UP BETWEEN THE JOISTS AND RUN DUCT HORIZONTAL.
5. TURN DUCT UP BETWEEN THE JOISTS AND INSTALL A 46%/54% SPLITTER WITH TURNING VANES.
6. RUN DUCTWORK BETWEEN THE ROOF JOISTS, JUST BELOW BOTTOM OF ROOF DECK, TYPICAL.
7. (LD-1) 250 CFM, 4 SLOT x 1'-6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
8. INSURE THE THERMOSTATS ARE PROPERLY SPACED TO ACCOMMODATE THE EASY REMOVAL OF THE LOCKING THERMOSTAT GUARDS.
9. RUN DUCTWORK TIGHT TO BOTTOM OF ROOF JOISTS, TYPICAL.
10. (RG-3) 30"x 12" NECK. INSTALL WITH BOTTOM OF GRILLE AT 9'-0" ABOVE FINISHED FLOOR.
11. (RG-1) 22"x 10" NECK.
12. (D-1) 830 CFM, 15"x 15" NECK, 4-WAY THROW.
13. DROP THE 28"x 28" DUCT THRU ROOF AND SPLIT DUCT WITH A 52%/48% SPLITTER WITH TURNING VANES.
14. (D-1) 110 CFM, 6"x 6" NECK, 4-WAY THROW.
15. (LD-1) 2,200 CFM, 4 SLOT x 11 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
16. (RG-2) 12"x 12" NECK. INSTALL PER DETAIL 4/M1.1/M3.1
17. (LD-1) 1,330 CFM, 4 SLOT x 7 FT. LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
18. (LD-1) 190 CFM, 4 SLOT x 1'-6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.
19. (RG-3) 1,500 CFM, 42"x 18" NECK. INSTALL WITH BOTTOM OF GRILLE AT 9'- 0" ABOVE FINISHED FLOOR.
20. (D-2) 495 CFM, 12"x 12" NECK, 3-WAY THROW.
21. (D-2) 305 CFM, 9"x 9" NECK, 3-WAY THROW.
22. (D-2) 1,230 CFM, 18"x 18" NECK, 4-WAY THROW.
23. (D-2) 115 CFM, 6"x 6" NECK, 4-WAY THROW.
24. (D-2) 570 CFM, 12"x 12" NECK, 4-WAY THROW.
25. (D-2) 90 CFM, 6"x 6" NECK, 4-WAY THROW.
26. (D-2) 435 CFM, 12"x 12" NECK, 4-WAY THROW.
27. (D-1) 140 CFM, 6"x 6" NECK, 2-WAY THROW.
28. (D-2) 1,230 CFM, 18"x 18" NECK, 3-WAY THROW.
29. (D-2) 435 CFM, 12"x 12" NECK, 3-WAY THROW.
30. (D-2) 1,210 CFM, 18"x 18" NECK, 2-WAY THROW.
31. (D-2) 370 CFM, 9"x 9" NECK 3-WAY THROW.
32. (D-1) 330 CFM, 9"x 9" NECK, 2-WAY THROW.
33. (D-2) 935 CFM, 15"x 15" NECK, 2-WAY THROW
34. (EG-1) 200 CFM, 8"x 8" NECK.
35. (EG-1) 160 CFM, 8"x 6" NECK.
36. (EG-1) 690 CFM, 12"x 12" NECK.
37. (EG-1) 510 CFM, 12"x 12" NECK.
38. (D-1) 770 CFM, 15"x 15" NECK, 4-WAY THROW.
39. INSTALL A 67%/33% SPLITTER WITH TURNING VANES.
40. INSTALL A 77%/23% SPLITTER WITH TURNING VANES.
41. (D-1) 90 CFM, 6"x 6" NECK, 4-WAY THROW.
42. 16"x 14" EXHAUST DUCT UP THRU ROOF TO EXHAUST FAN.
43. DROP A 36"x 20" DUCT DOWN THRU ROOF FROM UNIT ON ROOF.
44. (RG-2) 24"x 12" NECK. INSTALL PER DETAIL 4/M1.1/M3.1
45. DROP THE 28"x 28" DUCT THRU ROOF AND TURN HORIZONTAL.
46. (RG-1) 10"x 10" NECK IN A 12"x 12" FRAME.
47. INSTALL 1" THICK ACOUSTICAL LINING IN THE RETURN AIR BOOT.
48. (RG-3) 36"x 20" NECK. INSTALL GRILLE AT 9'-0" ABOVE FINISHED FLOOR TO BOTTOM OF GRILLE OPENING.
49. (SR-1) 870 CFM, 18"x12" NECK.
50. (LD-1) 230 CFM 4 SLOT x 1'- 6" LONG. INSTALL GRILLE AT A 45 DEGREE ANGLE FROM VERTICAL WITH THE GRILLE POINTING DOWNWARD.

GENERAL NOTES :

A. INSTALL ALL CONCEALED DUCT TAKE-OFF'S PER DETAIL 1/M1.1/M3.1

B. SUSPEND ALL EXPOSED ROUND DUCTWORK PER DETAIL 1/M1.1/M3.1

C. INSTALL SUPPLY DIFFUSERS PER DETAIL 4/M1.1/M3.1

D. ALL CEILING MOUNTED RETURN GRILLES SHALL BE INSTALLED PER DETAIL 4/M1.1/M3.1

E. INSTALL SHEET METAL ESCUTCHEONS AROUND ALL EXPOSED DUCTWORK PENETRATING WALLS.

G. INSTALL LINEAR DIFFUSERS TO INSURE THE AIR DISCHARGE BELOW THE BOTTOM CORD OF THE JOISTS.

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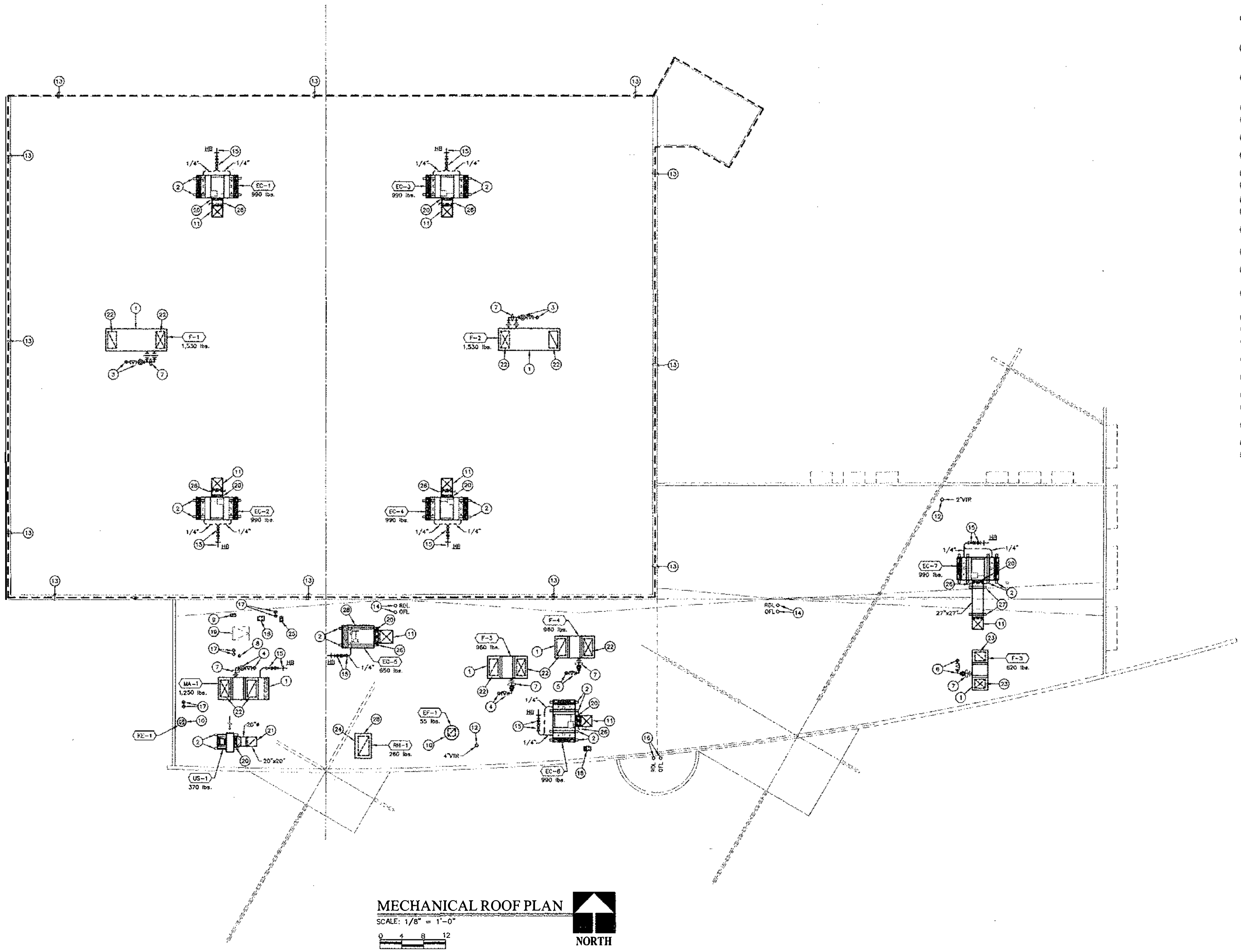
NE SAN JUAN COUNTY FAMILY CENTER

PARTIAL HVAC FLOOR PLAN AND CONTROL DIAGRAMS

3298102-00
DATE: OCT. 02, 1998

M1.2

DLR Group



MECHANICAL ROOF PLAN

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

0 4 8 12

KEYED NOTES :

1. INSTALL UNIT ON ROOF CURB PER DETAIL [6, M2.1/M3.1].
2. MOUNT UNIT ON EQUIPMENT SUPPORTS PER DETAIL [5, M2.1/M3.1].
3. RISE GAS LINE UP THRU ROOF PER DETAIL [5, M2.1/P2.1] AND CONNECT LINE TO FURNACE WITH A GAS COCK, DIRT LEG, PRESSURE REDUCING VALVE AND UNION. THE GAS PRESSURE REGULATOR SHALL BE CAPABLE OF 600 CFH FLOW WITH A 5 PSIG INLET PRESSURE AND A 7" WATER COLUMN LEAVING PRESSURE. SEE SHEET P1.1 FOR CONTINUATION.
4. RISE GAS LINE UP THRU ROOF PER DETAIL [5, M2.1/P2.1] AND CONNECT LINE TO FURNACE WITH A GAS COCK, DIRT LEG, PRESSURE REDUCING VALVE AND UNION. THE GAS PRESSURE REGULATOR SHALL BE CAPABLE OF 250 CFH FLOW WITH A 5 PSIG INLET PRESSURE AND A 7" WATER COLUMN LEAVING PRESSURE. SEE SHEET P1.1 FOR CONTINUATION.
5. RISE GAS LINE UP THRU ROOF PER DETAIL [5, M2.1/P2.1] AND CONNECT LINE TO FURNACE WITH A GAS COCK, DIRT LEG, PRESSURE REDUCING VALVE AND UNION. THE GAS PRESSURE REGULATOR SHALL BE CAPABLE OF 300 CFH FLOW WITH A 5 PSIG INLET PRESSURE AND A 7" WATER COLUMN LEAVING PRESSURE. SEE SHEET P1.1 FOR CONTINUATION.
6. RISE GAS LINE UP THRU ROOF PER DETAIL [5, M2.1/P2.1] AND CONNECT LINE TO FURNACE WITH A GAS COCK, DIRT LEG, PRESSURE REDUCING VALVE AND UNION. THE GAS PRESSURE REGULATOR SHALL BE CAPABLE OF 150 CFH FLOW WITH A 5 PSIG INLET PRESSURE AND A 7" WATER COLUMN LEAVING PRESSURE. SEE SHEET P1.1 FOR CONTINUATION.
7. MOUNT GAS PIPING ON ROOF SUPPORTS PER DETAIL [4, M2.1/P2.1].
8. 4"Ø FLUE THRU THE ROOF PER DETAIL [10, M2.1/M3.1]. RISE FLUE 2 FT. ABOVE THE TOP OF MA-1. SEE SHEET M1.1 FOR CONTINUATION.
9. 5"x 6" COMBUSTION AIR DUCT UP THRU ROOF TO A GOOSENECK PER DETAIL [7, M2.1/M3.1]. SEE SHEET M1.1 FOR CONTINUATION.
10. INSTALL ROOF MOUNTED EXHAUST FAN PER DETAIL [8, M2.1/M3.1]. SEE SHEET M1.1 FOR CONTINUATION.
11. DROP A 28"x 28" DUCT THRU ROOF PER DETAIL [9, M2.1/M3.1]. SEE SHEET M1.1 FOR CONTINUATION.
12. INSTALL VENT THRU ROOF PER DETAIL [6, M2.1/P2.1]. SEE SHEET P1.1 FOR CONTINUATION.
13. MECHANICAL WORK WITHIN THIS AREA IS PART OF ADDITIVE ALTERNATE No. 3.
14. 4" ROOF DRAIN AND 4" OVERFLOW DRAIN. INSTALL PER DETAIL [7, M2.1/P2.1]. SEE SHEET P1.1 FOR CONTINUATION.
15. RISE 1/2" WATER LINE UP THRU ROOF, INSTALL VALVES AND RUN PIPING TO EVAPORATIVE COOLER PER DETAIL [14, M2.1/P2.1]. SEE SHEET P1.1 FOR CONTINUATION.
16. 2" ROOF DRAIN AND 2" OVERFLOW DRAIN. INSTALL PER DETAIL [7, M2.1/P2.1]. SEE SHEET P1.1 FOR CONTINUATION.
17. RUN THE 1/2" GAS PRESSURE REGULATOR VENT UP THRU THE ROOF PER DETAIL [5, M2.1/P2.1]. EXTEND LINE TO 12" ABOVE THE ROOF, TURN LINE DOWN AT 45 DEGREES AND TERMINATE LINE WITH A BUG SCREEN. SEE SHEET P1.2 FOR CONTINUATION.
18. 8"x 8" EXHAUST DUCT UP THRU ROOF FROM THE CEILING EXHAUSTER TO A GOOSENECK. INSTALL GOOSENECK PER DETAIL [7, M2.1/M3.1].
19. ACCESS HATCH TO ROOF.
20. CONNECT DUCT TO UNIT WITH A FLEX CONNECTOR AND SUN SHIELD PER DETAIL [11, M2.1/M3.1].
21. DROP A 20"x 20" DUCT THRU ROOF PER DETAIL [9, M2.1/M3.1]. SEE SHEET M1.1 FOR CONTINUATION.
22. DROP A 38"x 20" DUCT DOWN THRU ROOF FROM FURNACE. SEE SHEET M1.1 FOR CONTINUATION.
23. DROP A 23"x 20" DUCT DOWN THRU ROOF FROM FURNACE. SEE SHEET M1.1 FOR CONTINUATION.
24. INSTALL RELIEF HOOD ON CURB SIMILAR TO DETAIL [8, M2.1/M3.1].
25. 6"x 4" DRYER VENT UP THRU ROOF TO A GOOSENECK PER DETAIL [7, M2.1/M3.1]. SEE SHEET M1.1 FOR CONTINUATION.
26. INSTALL A 16 GAGE GALVANIZED SHEET METAL SLIDE DAMPER IN DUCT COMPLETE WITH GUIDE RAILS AND DUCT MOUNTED, DAMPER STORAGE SLEEVE.
27. SUPPORT DUCT FROM ROOF PER DETAIL [5, M2.1/M3.1].
28. INTERLOCK THE DAMPER IN RH-1 WITH EVAPORATIVE COOLER, EC-5.

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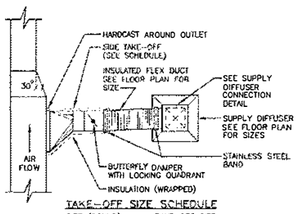
MECHANICAL ROOF PLAN
NE SAN JUAN COUNTY FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS
DLR Group

3298102-00
DATE: OCT. 02, 1998

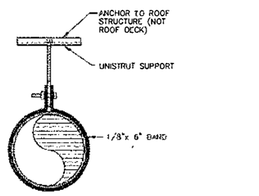
M2.1



TAKE-OFF SIZE SCHEDULE

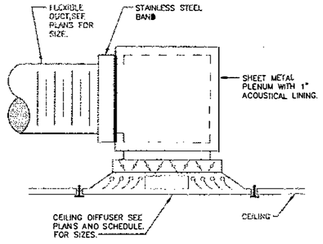
SIZE (ROUND)	TAKE-OFF SIZE
6"ø	43" Sq. in. Min.
7"ø	58" Sq. in. Min.
8"ø	76" Sq. in. Min.
9"ø	95" Sq. in. Min.
10"ø	116" Sq. in. Min.
12"ø	170" Sq. in. Min.
14"ø	230" Sq. in. Min.

DUCT TAKE-OFF DETAIL 1 — M1.1 M3.1 M1.2
SCALE: NONE

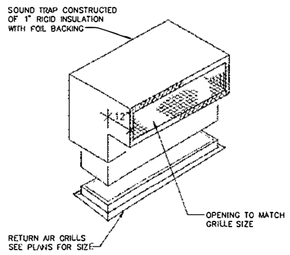


NOTES:
A. ALL HANGER BANDS SHALL BE THE SAME MATERIAL AS THE DUCTWORK THE BAND IS USED ON.
B. HANGERS MUST NOT DEFORM DUCT SHAPE.

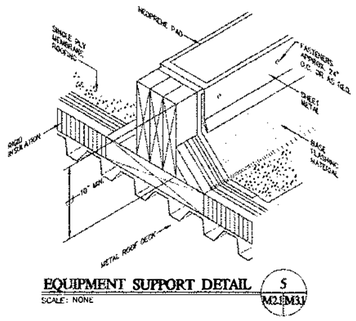
EXPOSED ROUND DUCTWORK HANGER 2 — M1.1 M3.1 M1.2
SCALE: NONE



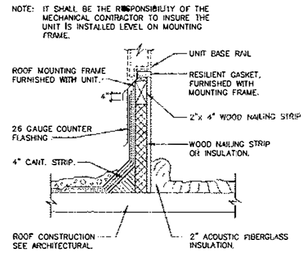
SUPPLY DIFFUSER CONNECTION 3 — M1.1 M3.1 M1.2
SCALE: NONE



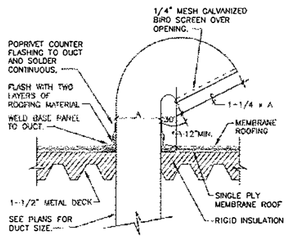
SOUND TRAP DETAIL 4 — M1.1 M3.1 M1.2
SCALE: NONE



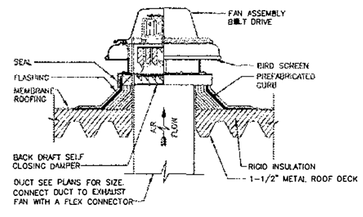
EQUIPMENT SUPPORT DETAIL 5
SCALE: NONE



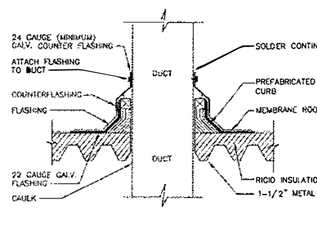
MOUNTING FRAME DETAIL 6 — M2.1 M3.1
SCALE: NONE



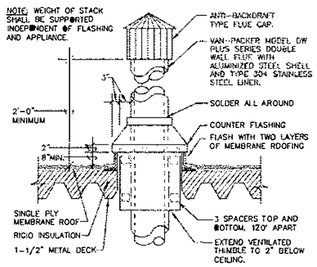
GOOSENECK DETAIL 7 — M2.1 M3.1
SCALE: NONE



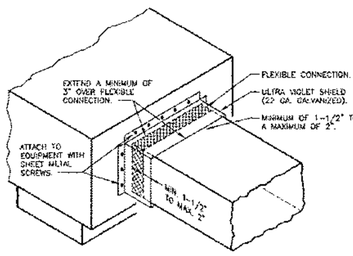
BELT DRIVE ROOF MOUNTED EXHAUST FAN 8 — M2.1 M3.1
SCALE: NONE



ROOF PENETRATION DETAIL 9 — M2.1 M3.1
SCALE: NONE



FLUE THRU ROOF DETAIL 10 — M2.1 M3.1
SCALE: NONE



ULTRA VIOLET SHIELD DETAIL 11 — M2.1 M3.1
SCALE: NONE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—— — ——	COLD WATER LINE		SPLITTER DAMPER
—— — — ——	HOT WATER LINE		BALANCING DAMPER
—— — — ——	RECIRCULATING HOT WATER	DUCT UNIT	FLEX CONNECTION
—— G ——	GAS LINE		FLEXIBLE DUCTWORK (MAX. 5')
—— G (HP) ——	HIGH PRESSURE GAS		SUPPLY DUCT, SECTION
—— W ——	WATER LINE (EXTERIOR)		RETURN OR EXHAUST DUCT, SECTION
—— FP ——	FIRE PROTECTION LINE		TURNING VANES
—— S ——	SOIL LINE		LAY-IN TEE-BAR SUPPLY GRILLE
—— V ——	GAS VENT LINE		LAY-IN TEE-BAR RETURN OR EXHAUST GRILLE
----------	VENT PIPING		SURFACE MOUNTED SUPPLY GRILLE
—— D ——	DRAIN LINE		SURFACE MOUNTED RETURN OR EXHAUST GRILLE
—— RDL ——	ROOF DRAIN LEADER	T	ELECTRIC THERMOSTAT
—— OFD ——	OVERFLOW DRAIN	VTR	VENT THRU ROOF
—— T ——	TEMPERED WATER LINE	OSA	OUTSIDE AIR
—— M-U&O ——	MAKE-UP AND DRAIN LINE	CFM	CUBIC FEET PER MINUTE
	BALL VALVE	ESP	EXTERNAL STATIC PRESSURE
	UNION	PSI	POUNDS PER SQUARE INCH
	BALANCING OR PLUG COCK	GPM	GALLONS PER MINUTE
	CHECK VALVE	PRV	PRESSURE REGULATING VALVE
	WYE STRAINER	FD	FIRE DAMPER
	FLOW CONTROLLER		CEILING ACCESS DOOR
	THERMOMETER	HW	HOT WATER
COTG O	CLEANOUT TO GRADE	CW	COLD WATER
	RISE IN PIPING	TW	TEMPERED WATER
	DROP IN PIPING		
	VALVE IN RISE OR DROP		

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
MA-1	MAKE-UP AIR UNIT: Rooftop mounted gas-fired heating/evaporative cooling unit with bottom supply, bottom return and rear outside air intake. Unit shall consist of a down discharge plenum, two-stage gas-fired heating section, fan/return/outside air intake section and an evaporative cooling section. All jacketing shall be constructed of 20 gauge (min.) galvanized steel with one inch thick interior insulation and enamel exterior finish. Heating section shall consist of a two-stage, power vented gas-fired unit with type 409 stainless steel burners, type 409 stainless steel heat exchanger and full controls. Fan section shall consist of a belt driven centrifugal fan with adjustable pitch motor sheaves, tight seal outside air/return air dampers and damper actuator, air filter frames, 2" thick pleated air filters and high efficiency blower motor. Evaporative cooling section shall utilize 12" thick CELdek for the evaporative media. The section shall also contain a stainless steel sump, automatic water bleed-off, PVC water distribution piping, brass float valve, recirculating pump, pump motor float switch and all required items. Furnish unit with roof curb, magnetic motor starter with two spare contacts, disconnect switch, two-stage heating/two-stage cooling space T-stat with subbase and all required controls and items for a fully operational unit. The entire unit shall be factory wired for single point connection. Furnish with duct mounted smoke detector interlocked with fan motor to shut fan down in the event of smoke detection. Power is 208 Volt/3 Phase. Model numbers are Reznor. MA-1: Model RPB-250 with AS4 evaporative cooling module. Unit shall be capable of 156.0 MBtuh heating output at 5,500 ft. elevation with a 250.0 MBtuh sea level input. Evaporative cooling section shall have a 90% (minimum) saturation efficiency with a 12" CELdek pad. Blower shall be capable of 3,100 cfm at 1.00" ESP with a 3 h.p. motor.
F-1 thru F-5	FURNACE: Rooftop mounted gas-fired heating/ventilation unit with bottom supply, bottom return and rear outside air intake. Unit shall consist of a down discharge plenum, two-stage gas-fired heating section(s), fan/return/outside air intake section and a 30% outside air intake hood. All jacketing shall be constructed of 20 gauge (min.) galvanized steel with one inch thick interior insulation and enamel exterior finish. Heating section shall consist of a two-stage, power vented gas-fired unit(s) with type 409 stainless steel burners, type 409 stainless steel heat exchanger and full controls. Fan section shall consist of a belt driven centrifugal fan with adjustable pitch motor sheaves, tight seal outside air/return air dampers and damper actuator, air filter frames, 2" thick pleated air filters and high efficiency blower motor. Furnish unit with roof curb, magnetic motor starter with one spa e contact, disconnect switch, two-stage heating space T-stat with subbase and clear locking cover, and all required controls and items for a fully operational unit. Controls shall provide for the closure of the OSA dampers when the supply fan is not running. The entire unit shall be factory wired for single point connection. Furnish with duct mounted smoke detector interlocked with fan motor to shut fan down in the event of smoke detection. Power is 208 Volt/3 Phase. Model numbers are Reznor. ADD. ALT. No. 3 — * F-1,2: Model RPBL-600 capable of 374.4 MBtuh heating output at 5,500 ft. elevation with a 600 MBtuh sea level input. Blower shall be capable of 9,000 cfm at 0.50" ESP with a 15 h.p. motor. Weight: 1,530 lbs. F-3: Model RPB-H250 capable of 156.0 MBtuh heating output at 5,500 ft. elevation with a 250 MBtuh sea level input. Blower shall be capable of 2,500 cfm at 0.8" ESP with a 2 h.p. motor. Weight: 960 lbs. F-4: Model RPB-H300 capable of 187.2 MBtuh heating output at 5,500 ft. elevation with a 300 MBtuh sea level input. Blower shall be capable of 2,950 cfm at 1.0" ESP with a 2 h.p. motor. Weight: 960 lbs. F-5: Model RPB-150 capable of 93.6 MBtuh heating output at 5,500 ft. elevation with a 150 MBtuh sea level input. Blower shall be capable of 1,500 cfm at 0.60" ESP with a 1 h.p. motor. Weight: 820 lbs.
* RHP-1 ADD. ALT. No. 3	RADIANT HEATING PANEL: Recessed mounted low surface temperature electric radiant heating panel constructed of heavy gauge galvanized steel casing, 1" thick high temperature insulation, graphite heating element and a crystaline radiant surface. Furnish with recess frame, 40" Greenfield flexible conduit pigtail, 24 Volt control transformer, relays and space T-stat. Power is 120 Volt/1 Phase. Model numbers are Berko, Aztec series. Symbol: RHP-1 — Model: CP7502 — Size: 24"X 48" — Output: 750 Watts
EC-1 thru EC-4 EC-6 and EC-7	EVAPORATIVE COOLER: Industrial, side discharge, evaporative cooler consisting of a fan section, and two direct cooling sections. All metal ports 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 powder-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 Celdek media, sump, water distribution system and inlet louver. Unit shall be furnished with a high effiCiency blower motor, water bleed-off kit, low voltage T-stat with subbase, all required relays, clear locking guard, disconnect, 24 VAC relay for control of wall louver, and all power transforms required for single point electrical power connection. Power is 208 Volt/3 phase. Model numbers are AdobeAir MasterCool. ADD. ALT. No. 3 — * EC-1,2,3,4: Symbol: EC-1,2,3,4 — Model: MS625/DM120(2) — CFM: 9,800 — ESP: 0.50" — H.P.: 3 — Weight: 990 lbs. EC-6: Symbol: EC-6 — Model: MS625/DM120(2) — CFM: 14,510 — ESP: 0.80" — H.P.: 7-1/2 — Weight: 990 lbs. EC-7: Symbol: EC-7 — Model: MS625/DM120(2) — CFM: 8,370 — ESP: 0.50" — H.P.: 2 — Weight: 990 lbs.
EC-5	EVAPORATIVE COOLER: Industrial, side discharge, evaporative cooler consisting of a fan section, and a direct cooling section. All metal ports 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 powder-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. The direct cooling section shall consist of 12" thick Celedek media, sump, water distribution system and inlet louver. Unit shall be furnished with a high efficiency blower motor, water bleed-off kit, low voltage T-stat with subbase, all required relays, clear locking guard, disconnect, a 24 VAC relay for control of wall louver, and all power transformers required for single point electrical power connection. Power is 208 Volt/3 Phase. Model numbers are AdobeAir MasterCool. Symbol: EC-5 — Model: MS524/DM120 — CFM: 6,740 — ESP: 0.60" — H.P.: 3 — Weight: 650 lbs.

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION
KH-1	KITCHEN HOOD: Wall mounted, canopy style, stainless steel, type 1 engineered, exhaust hood with high velocity centrifugal grease extractor and integral fire suppression system. Ventilator shall contain removable extractor inserts with a grease extraction efficiency of 90%, removable grease collecting container and duct collar fire damper with 280°F fusible link. The entire ventilator shall be fabricated from type 304 stainless steel, 18 gauge minimum, with all exposed surfaces machined to a number 4 finish. Gaylord Industries model GX-BDL-42. The hood shall be 4'x 6" long by 3'-6" wide with a total air exhaust rate of 675 cfm. The fire suppression system shall be wet chemical based complete with all items required for a complete operating system.
US-1	UTILITY SET: Centrifugal roof exhauster complete with heavy gauge steel housing with a factory applied baked epoxy finish. Fan shall be belt drive with adjustable pulleys sized for a min. of 1.65% of drives horsepower complete with vented weather cover, inlet cone, fan bearings life 200,000 hours min., backward inclined fan statically and dynamically balanced, open drip-proof motor, access doors, outlet guards, backdraft dampers, scroll drain, spring type vibration isolators and motorized inlet vanes with a 120 Volt/1 Phase motor operator. Capacities are for 5,500 ft. elevation. Model numbers are Loren Cook. Weight: 370 lbs. Rotation: CCW Discharge: Top Horizontal. Symbol: US-1 — Model: 195CF — Arr: 10 — CFM: 3,100 — ESP: 0.50" — H.P.: 1 — RPM: 1,015 — Volt/Phase: 208/3
KE-1	EXHAUST FAN: Up-blast, belt driven centrifugal exhauster with backward curved non-overlooding 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 birdscreen, heavy duty cast iron adjustable drive pulley, spring-loaded belt tightener, a grease cup, on extended base with vents, and prefabricated roof curb. External aluminum wiring post shall be completely factory assembled and wired to junction box. Exhaust rates are at 5,500 ft. elevation. Model numbers are Loren Cook VCR-HP series. Symbol: KE-1 — Model: 150VH5B — CFM: 675 — ESP: 1.75" — H.P.: 1/2 — Power Volt/Phase: 120/1 — Operating Weight: 120 lbs.
EF-1	EXHAUST FAN: Rooftop mounted, spun aluminum, belt drive, up-blast, centrifugal exhaust fan with prelubricated ball bearing drive and motor, vibration isolators, heavy duty cast iron adjustable drive pulley, non-overloadin all aluminum wheel and hub, external aluminum wiring post, weather-proof disconnect switch, roof curb (see plans for roof type and slope) and backdraft damper. Exhaust rates are at 5,500 ft. elevation. Power is 120 Volt/1 Phase. Model numbers are Loren Cook ACRU-B series. Symbol: EF-1 — Model: 120R4B — CFM: 1,560 — ESP: 0.40" — RPM: 1,650 — H.P.: 1/3 — Operating Weight: 90 lbs.
RH-1	RELIEF HOOD: All extruded aluminum construction with rigid extruded aluminum channel framework with hinged hood, 1/2" mesh galvanized birdscreen, complete with tight seal, parallel blade, motorized damper and 120 Volt/1 Phase operator. Furnish with prefabricated roof curb. Loren Cook Type VR with a 24"x 42" neck. Weight: 260 lbs.
CE-1 and CE-2	CEILING EXHAUSTER: Ceiling mounted super-quiet exhaust fan with neoprene mounted low rpm motor, dynamically balanced centrifugal blower, steel housing with 1/2" acoustical insulation, clatterproof automatic backdraft damper, and ceiling grille. Power is 120 Volt/1 Phase. Model numbers are Loren Cook Gemini series. Capacities are for 5,500 ft. elevation. Symbol: CE-1 — Model: 4-15A — CFM: 110 — ESP: 0.20" — Watts: 63 CE-2 — 5-10 — 160 — 0.20" — 81
D-1	DIFFUSER: Krueger design-air "SH" series diffuser with frame style 23 suitable for Lay-in Tee-bar ceiling installation. Diffuser shall be of welded steel construction with a factory applied white baked enamel finish. Furnish complete with opposed blade damper adjustable through face and removable core. Pattern and size as indicated on drawings.
D-2	DIFFUSER: Krueger Design-air "SH" series diffuser with frame style 22 suitable for surface installation. Diffuser shall be of welded steel construction with a factory applied white baked enamel finish. Furnish complete with opposed blade damper adjustable through face and removable core. Pattern and size as indicated on drawings.
LD-1	LINEAR SLOT DIFFUSER: Krueger series 1910, frame style "L" suitable for curved duct installation. Extruded aluminum construction with 1" slot openings, type B surface mounting, adjustable deflecting and flow control vanes, and primer coat finish for field painting. See plans for size.
LD-2	LINEAR SLOT DIFFUSER: Suitable for surface mounted installation, ceiling supply application. Grille bar spacing on 1/4" centers with bars set at zero degree deflection with ty e "4" mounting and AE frame. All extruded aluminum construction with a factory applied white baked enamel finish, with an NC level less than 30. Krueger series 1500.
SR-1	SUPPLY REGISTER: Krueger series S880H double deflection extruded aluminum supply grille with individually adjustable vanes on 3/4" centers. Furnish with opposed blade balancing damper, and a factory applied white enamel finish.
RG-1	RETURN GRILLE: Krueger series EGC-S with frame 23 suitable for Lay-in Tee-bar installation. Grille shall be all aluminum construction with a fixed core of 1/2"x 1/2"x 1/2" deep squares. Furnish with a factory applied white baked enamel finish. Neck size as indicated on drawings.
RG-2	RETURN GRILLE: Krueger series EGC-S with frame 22 suitable for surface mounting installation. Grille shall be all aluminum construction with a fixed core of 1/2"x 1/2"x 1/2" deep squares. Furnish with a factory applied white baked enamel finish. Neck size as indicated on drawings.
RG-3	RETURN GRILLE: Krueger series S580H extruded aluminum return air grille with stationary vanes set at a 35° angle on 3/4" centers. Furnish with a factory applied white baked enamel finish.
EG-1	EXHAUST GRILLE: Krueger series EGC-S with frame 22 suitable for surface mounting installation. Grille shall be all aluminum construction with a fixed core of 1/2"x 1/2"x 1/2" deep squares. Furnish with an opposed blade damper behind and a factory applied white baked enamel finish. Neck size as indicated on drawings.
L-1	LOUVER: Airolite, 4" deep, extruded aluminum stationary louver with 45 degree 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 (special custom color selected by architect) and sill f ome. Furnish louvers with extruded aluminum parallel blade, motor operated dampers with tight seal package and a two-position, spring return 24 Volt/1 Phase motor operator. Install per BL-12 in detail manual.

NOTE:
A. 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/ENGINEER FOR APPROVAL.
B. ITEMS MARKED WITH AN ASTERIC (*) ARE PART OF ADDITIVE ALTERNATE No. 3.

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10-02-98

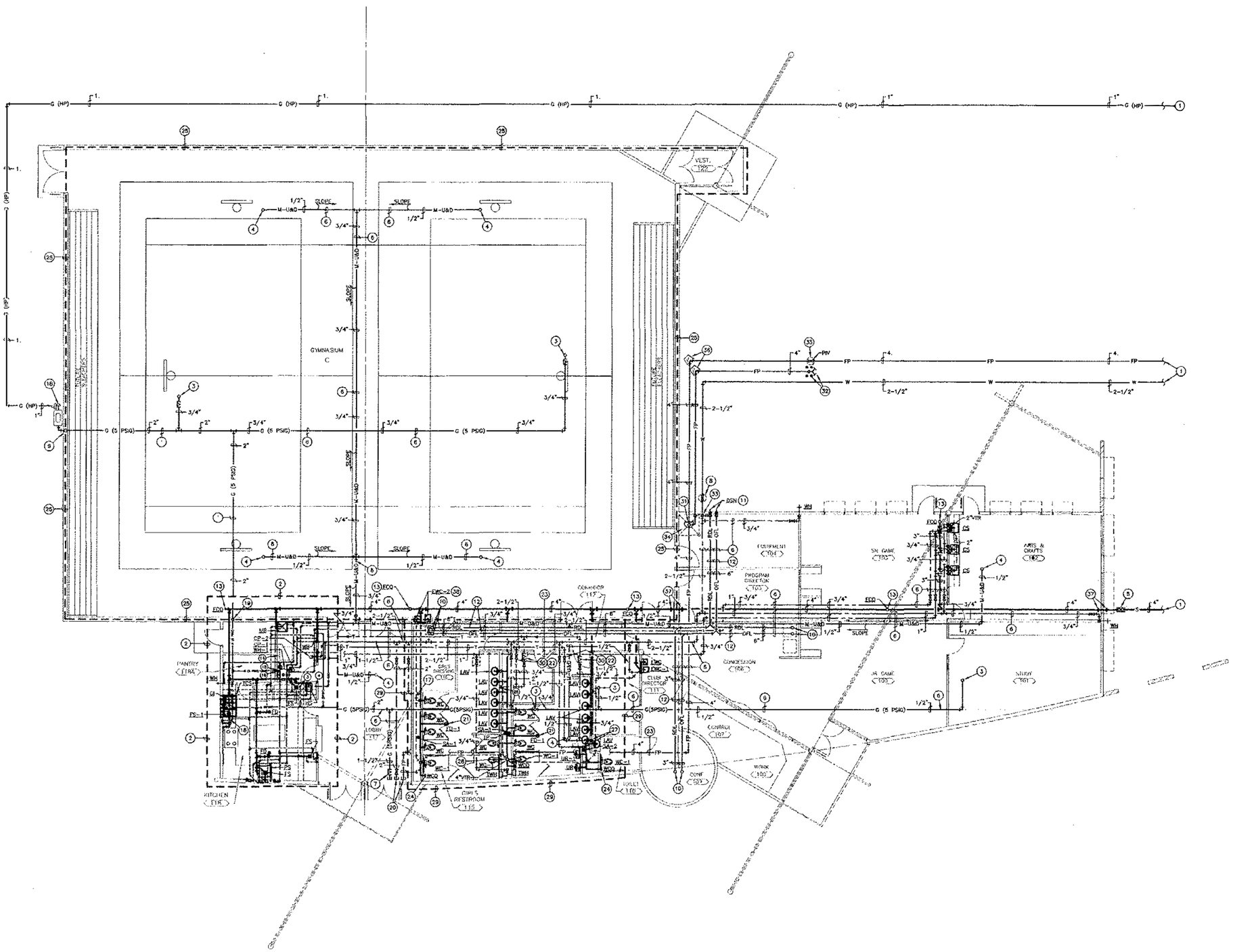
MECHANICAL EQUIPMENT SCHEDULE AND SYMBOL LEGEND

NE SAN JUAN COUNTY FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

DLR Group M3.1

3298102-00
DATE: OCT. 02, 1998



PLUMBING FLOOR PLAN

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

0 4 8 12

NORTH

KEYED NOTES :

1. SEE UTILITY P , SHEET C1.1, FOR C N T .
2. SEE ENLARGED KITCHEN FLOOR f . S P1.2, FOR ADDITIONAL INFORMATION IN THIS AREA.
3. RUN GAS LINE UP THRU ROOF. SEE MECHANICAL ROOF PLAN, SHEET M2.1, FOR C Jl .
4. RUN EVAPORATIVE C OMAKE-UP AND DRAIN LINE UP THRU ROOF. SEE MECHANICAL ROOF PLAN, SHEET M2.1, FOR CONTINUATION.
5. INSTALL THE TWO-WAY CLEANOUT PER DETAIL (1 / P1.1 P2.1)
6. RUN PIPING AS HIGH AS POSSIBLE, T
7. INSTALL A GAS COCK AND CAP LINE FOR FUTURE CONNECTION.
8. INSTALL A WATER SHUT-OFF VALVE IN THE LINE PER DETAIL (2 / P1.1 P2.1)
9. RISE GAS LINE UP IN WALL AND TURN LINE HORIZONTAL JUST BELOW THE ROOF DECK.
10. CONNECT R DRAIN LINE AND OVERFLOW DRAIN LINES TO ROOF DRAIN AND OVERFLOW INLET. SEE SHEET M2.1 FOR CONTINUATION.
11. DROP THE 6" ROOF DRAIN LEADER AND 6" OVERFLOW DRAIN LEADER DOWN ON WALL TURN LINES OUT THRU WALL AT 18" M FINISHED FLOOR AND TERMINATE EACH LINE WITH A DOWNSPOUT NOZZLE.
12. SLOPE ROOF DRAIN LINE AT 1/4" PER LINEAR FOOT (MINIMUM) TOWARD DOWNSPOUT, 1 .
13. INSTALL F OOR CLEANOUT PER DETAIL (12 / P1.1 P2.1), TYPICAL.
14. ROOF HATCH. SEE ARCHITECTURAL DRAWINGS.
15. DROP GAS LINE DOWN FROM CEILING SPACE AND CONNECT TO WATER HEATER WITH A GAS C , DRIP LEG, PRESSURE REGULATING VALVE, AND UNION. THE PRV SHALL BE CAPABLE OF 60 Cf GAS FLOW WITH A 5 PSIG INLET PRESSURE AND A 7" WATER COLUMN LEAVING PRESSURE.
16. RUN A 1/2" GAS VENT LINE UP FROM PRV AND THRU THE R D s SHEET M2.1 FOR e N T
17. DROP 2" WATER LINE DOWN IN CHASE AND RUN TO FIXTURES.
18. RISE GAS LINE UP FROM BELOW GRADE PER DETAIL (8 / P1.1 P2.1). INSTALL A GAS C M AND PRESSURE REGULATOR IN ACCORDANCE WITH "C ITY" STANDARDS. GAS METER AND PRESSURE REGULATOR SHALL BE CAPABLE OF 2,310 CFH GAS FLOW WITH A 5 PSIG LEAVING PRESSURE.
19. DROP 2" GAS LINE DOWN IN WALL FROM JOIST SPACE. TURN LINE HORIZONTAL IN CEILING OF LOW BAY.
20. CAP WATER LINES FOR FUTURE CONNECTION.
21. INSTALL FLOOR DRAIN PER DETAIL (2 / P1.1 P2.1). T
22. BELL & GOSSETT CIRCUIT SETTER VALVE. BALANCE FOR 4 GPM FLOW RATE.
23. RUN PIPING IN CEILING SPACE, AS HIGH AS POSSIBLE. T
24. INSTALL WALL CLEANOUT PER DETAIL (13 / P1.1 P2.1) TYPICAL.
25. MAKE-UP AND DRAIN PIPING WITHIN THIS AREA IS PART OF ADDITIVE ALTERNATE No.3. ALL o P PIPING, INCLUDING THE GAS PIPING, IS PART OF THE BASE BID.
26. DROP THE 2" CW LINE AND 3/4" TW LINE DOWN IN WALL AND RUN LINES TO FIXTURES.
27. DROP THE 1-1/2" CW L AND 3/4" TW LINE DOWN IN WALL AND RUN LINES TO f .
28. RUN SEWER VENT LINE THRU ROOF. SEE SHEET M2.1 FOR CONTINUATION.
29. SEE PLUMBING I f SHEET P1.2, FOR ADDITIONAL INFORMATION IN THIS AREA.
30. INSTALL VALVES WITHIN THE CEILING SPACE ACCESSIBLE FROM THE LAY-IN 0 .
31. RISE THE 4" WATER LINE UP FROM BELOW GRADE AND INSTALL T v BACKFLOW IN THE LINE JUST BELOW THE FIRE RISER.
32. FIRE DEPARTMENT CONNECTION. INSTALL FOUR 4"ø C FILLED STEEL 8 A M CONNECTION. INSTALL CONCRETE THRUST BLOCK AT THE E D
33. RISE WATER LINE UP THRU FLOOR FROM BELOW GRADE, INSTALL A SHUT-OFF VALVE AT 60" ABOVE FINISHED FLOOR, CONTINUE WATER LINE UP ALONG WALL TO JUST BELOW THE ROOF DECK AND TURN LINE HORIZONTAL. RUN PIPE THRU THE FLOOR IN A SLEEVE AND SEAL AROUND THE P AND SLEEVE.
34. WET PIPE FIRE RISER WITH REQUIRED 4'- 0"x 4'- 0" CLEARANCE SHOWN. SEE SHEET FP1.1 FOR ADDITIONAL INFORMATION.
35. INSTALL THE POST INDICATOR VALVE IN THE FIRE P C LINE, AT T L . INDICATOR VALVE INSTALLED SHALL BE PER THE LOCAL FIRE DEPARTMENTS STANDARDS.
36. INSTALL A CONCRETE THRUST BLOCK AT THIS LOCATION.
37. INSTALL A 2'- 6" SECTION OF LINE AT THIS LOCATION WITH A "HUSKY" HEAVY DUTY NO-HUB COUPLING ON EACH END TO ACCOMMODATE PIPE MOVEMENT.
38. THESE E. WATER C ARE PART OF ADDITIVE ALTERNATE No. 3. THE PIPING ROUGH-IN IS PART OF THE BASE BID.

GENERAL NOTES :

A. INSTALL ALL ABOVE GRADE HORIZONTAL PIPING PER DETAIL (P1.1/P2.1)

B. LOCATE ALL PLUMBING FLOOR PENETRATIONS TO MISS THE POST TENSION SLAB TENDONS.

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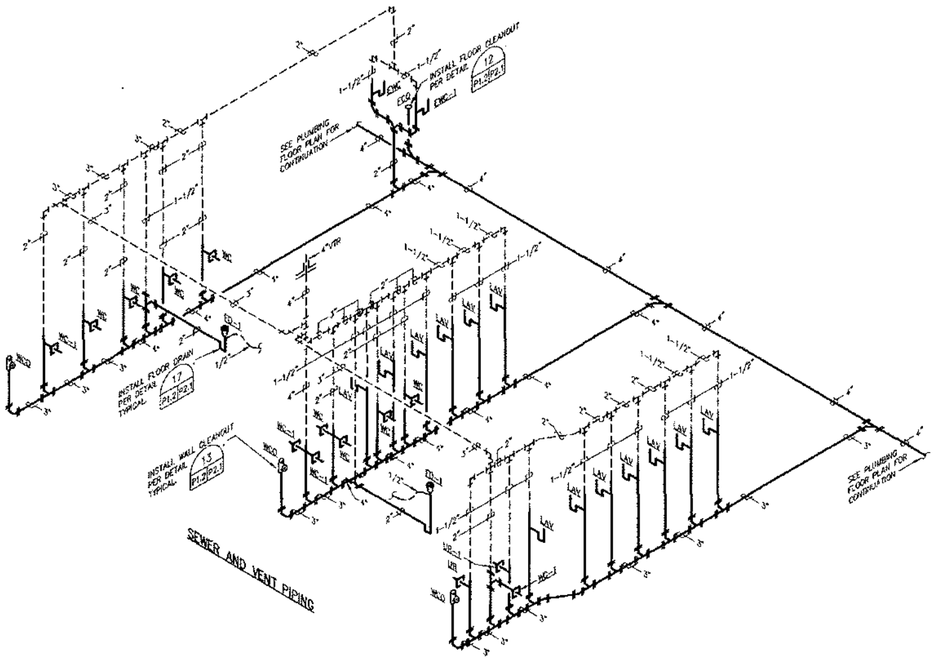
NE SAN JUAN COUNTY FAMILY CENTER

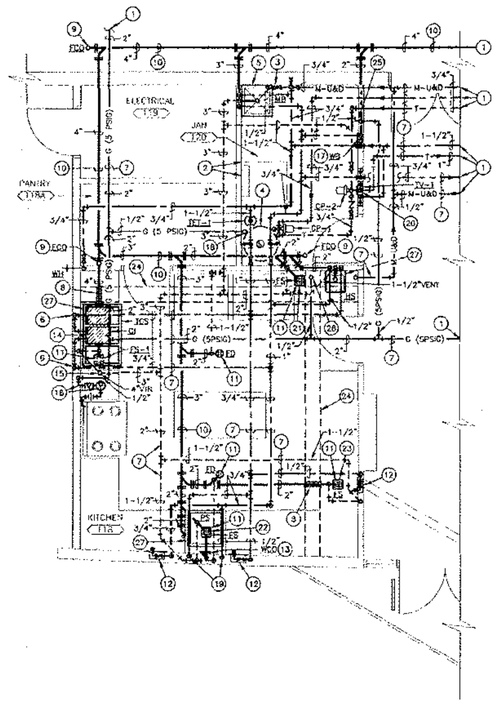
DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

PLUMBING FLOOR PLAN

3298102-00
DATE: OCT. 09, 1998

DLR Group P1.1



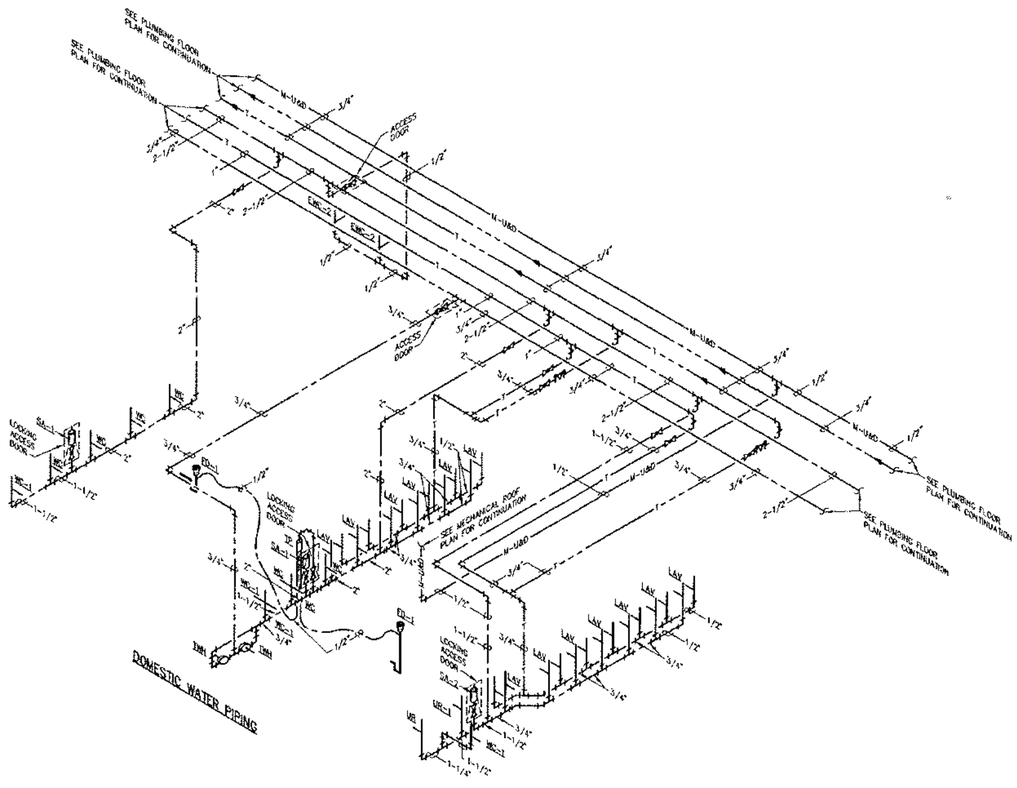


KITCHEN AREA PLUMBING FLOOR PLAN

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

0 4 8 12

NORTH



PLUMBING ISOMETRICS

SCALE: NONE

KEYED NOTES :

1. SEE SHEET P1.1 FOR CONTINUATION.
2. ROOF HATCH. SEE ARCHITECTURAL DRAWINGS.
3. EVAPORATIVE COOLER MAKE-UP AND DRAIN ASSEMBLY. INSTALL PER DETAIL 15 P1.2/P2.1.
4. INSTALL WATER HEATER PER DETAIL 9 P1.2/P2.1.
5. INSTALL MOP BASIN PER DETAIL 10 P1.2/P2.1.
6. DROP 3/4" HW AND CW LINES DOWN IN THE WALL FROM THE CEILING SPACE. SPLIT THE LINES AND CONNECT 1/2" LINES TO FAUCET AND SPRAYER.
7. RUN PIPING WITHIN THE ROOF STRUCTURE, TYPICAL.
8. RUN SEWER LINE THRU THE CONCRETE FOUNDATION RIB IN A STEEL SLEEVE.
9. INSTALL FLOOR CLEANOUT PER DETAIL 12 P1.2/P2.1.
10. RUN SEWER LINE BELOW SLAB AND 4" (MINIMUM) BELOW THE FLOOR FOUNDATION RIBS, TYPICAL.
11. INSTALL THE FLOOR DRAIN OR FLOOR SINK PER DETAIL 11 P1.2/P2.1.
12. DROP WATER LINE DOWN IN WALL TO 24" ABOVE FINISHED FLOOR AND TERMINATE LINE WITH A BALL VALVE IN A RECESSED VALVE BOX.
13. INSTALL WALL CLEANOUT PER DETAIL 13 P1.2/P2.1.
14. INSTALL GREASE TRAP IN THE FLOOR WITH THE TOP FLUSH WITH THE FLOOR SLAB. COORDINATE EXACT LOCATION WITH POT SINK TO INSURE PROPER MAINTENANCE OF THE GREASE TRAP CAN BE ACCOMPLISHED.
15. 4" VENT THRU ROOF. SEE SHEET M2.1 FOR CONTINUATION.
16. DROP GAS LINE DOWN IN WALL FROM CEILING SPACE, TURN LINE OUT AND CONNECT TO RANGE WITH A GAS COCK, DIRT LEG, PRESSURE REGULATOR AND FLEX CONNECTOR. PRESSURE REGULATOR SHALL BE CAPABLE OF 65 CFH AT 7" WC LEAVING PRESSURE. RUN A 1/2" STEEL VENT LINE UP FROM THE PRESSURE REGULATOR THRU THE ROOF. SEE SHEET M2.1 FOR CONTINUATION.
17. INSTALL WASHER BOX PER DETAIL 13 P1.2/P2.1.
18. DROP GAS LINE DOWN IN WALL FROM CEILING SPACE, TURN LINE OUT AND CONNECT TO WATER HEATER WITH A GAS COCK, DIRT LEG, PRESSURE REGULATOR AND FLEX CONNECTOR. PRESSURE REGULATOR SHALL BE CAPABLE OF 60 CFH AT 7" WC LEAVING PRESSURE REGULATOR. RUN A 1/2" STEEL VENT LINE UP FROM PRESSURE REGULATOR THRU THE ROOF. SEE SHEET M2.1 FOR CONTINUATION.
19. 1/2" HW AND 3/4" CW LINES DOWN IN WALL FROM THE CEILING SPACE. RUN THE 1/2" HW LINE TO THE SINK FAUCET. SPLIT THE 3/4" CW LINE INTO TWO 1/2" LINES, RUN ONE LINE TO THE SINK FAUCET AND THE OTHER LINE TO THE GARBAGE DISPOSAL. THE 1/2" CW LINE TO THE DISPOSAL SHALL HAVE A BALL VALVE, ELECTRIC SOLENOID VALVE AND VACUUM BREAKER INSTALLED IN THE LINE PRIOR TO CONNECTION TO THE DISPOSAL.
20. INSTALL THE THERMOSTATIC MIXING VALVE ON THE WALL AT 60" ABOVE FINISHED FLOOR. INSTALL BALL VALVES ON THE INLET AND OUTLET LINES INCLUDING THE RETURN BY-PASS LINE. INSTALL A CHECK VALVE ON THE RETURN BY-PASS LINE ALSO.
21. RUN COPPER CONDENSATE DRAIN LINE FROM THE REFRIGERATOR AND FREEZER TO FLOOR SINK.
22. RUN ICE MACHINE DRAIN LINE TO FLOOR SINK.
23. RUN DRAIN LINE FROM SODA DISPENSER DRAIN TO FLOOR SINK.
24. FLOOR SLAB RIB, TYPICAL. COORDINATE EXACT LOCATION WITH THE STRUCTURAL DRAWINGS.
25. DROP GAS LINE DOWN IN WALL FROM CEILING SPACE, TURN LINE OUT AND CONNECT TO CLOTHES DRYER WITH A GAS COCK, DIRT LEG, PRESSURE REGULATOR AND FLEX CONNECTOR. PRESSURE REGULATOR SHALL BE CAPABLE OF 35 CFH AT 7" WC LEAVING PRESSURE REGULATOR. RUN A 1/2" STEEL VENT LINE UP FROM PRESSURE REGULATOR THRU THE ROOF. SEE SHEET M2.1 FOR CONTINUATION.
26. RISE GAS LINE UP THRU ROOF FROM THE CEILING SPACE. SEE SHEET M2.1 FOR CONTINUATION.
27. THIS PIECE OF KITCHEN EQUIPMENT IS INCLUDED IN ADDITIVE ALTERNATE No. 2. THE ROUGH-IN PIPING IS PART OF THE BASE BID.

GENERAL NOTES :

A. INSTALL ALL ABOVE GRADE HORIZONTAL PIPING PER DETAIL 21 P1.2/P2.1.

B. LOCATE ALL PLUMBING FLOOR PENETRATIONS TO MISS THE POST TENSION SLAB TENDONS.

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KITCHEN AEAR PLUMBING FLOOR PLAN AND ISOMETRICS
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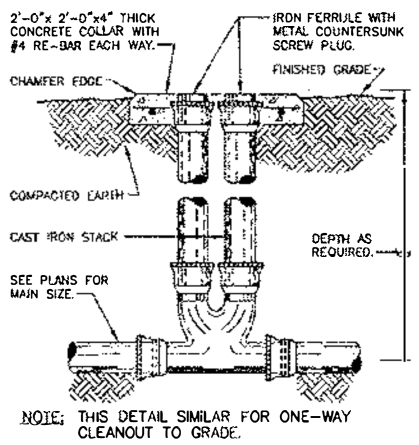
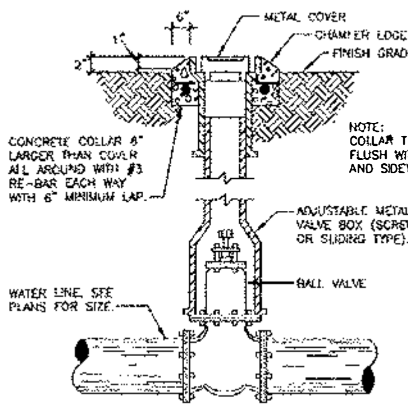
DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

3298102-00
DATE: OCT. 02, 1998

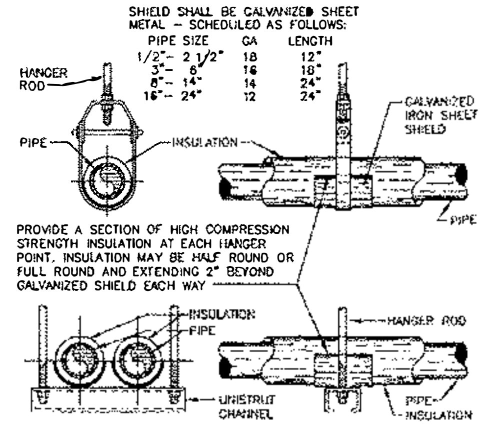
DLR Group P1.2



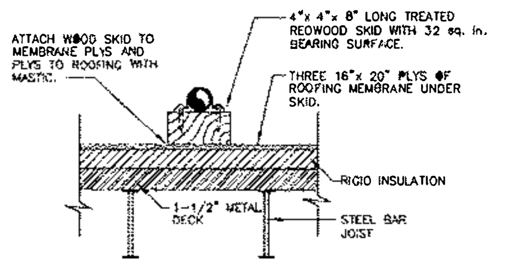
TWO-WAY CLEANOUT DETAIL (1) P1.1 P2.1
SCALE: NONE



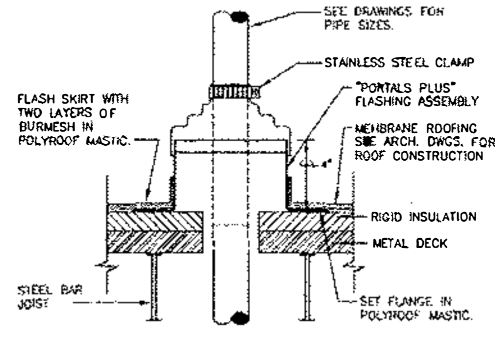
VALVE IN BOX DETAIL (2) P1.1 P2.1
SCALE: NONE



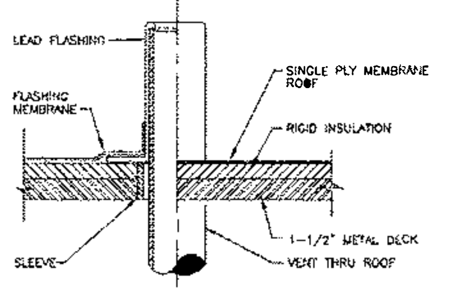
HANGERS FOR PIPING (3) P1.1 P2.1 P1.2
SCALE: NONE



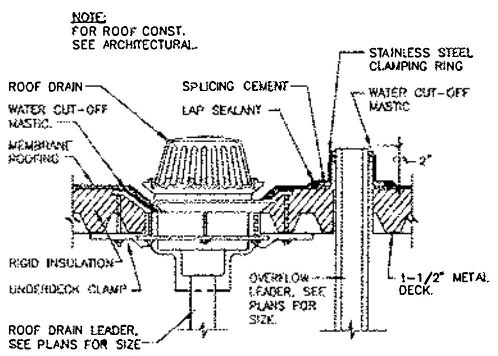
ROOF PIPING SUPPORT DETAIL (4) M2.1 P2.1
SCALE: NONE



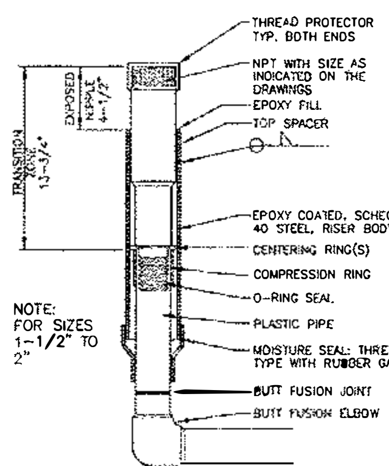
PIPE PENETRATION THRU ROOF DETAIL (5) M2.1 P2.1
SCALE: NONE



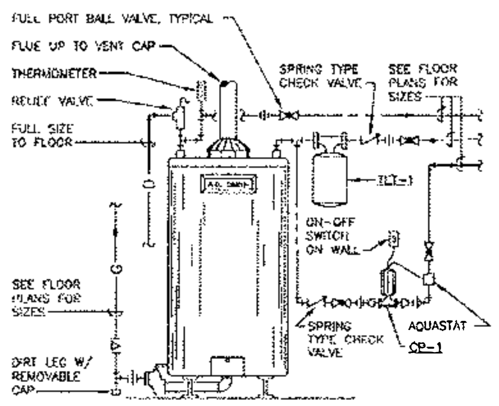
VENT THRU ROOF DETAIL (6) M2.1 P2.1
SCALE: NONE



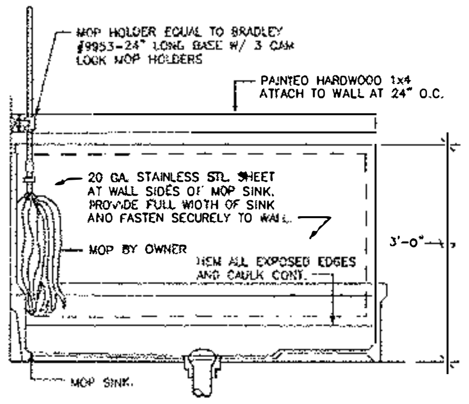
ROOF DRAIN DETAIL (7) M2.1 P2.1
SCALE: NONE



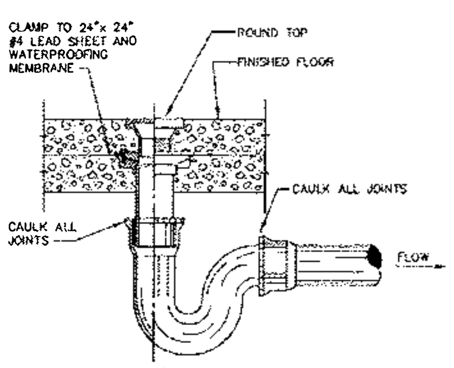
GAS PIPE RISER (8) P1.1 P2.1
SCALE: NONE



WATER HEATER SCHEMATIC (9) P1.2 P2.1
SCALE: NONE

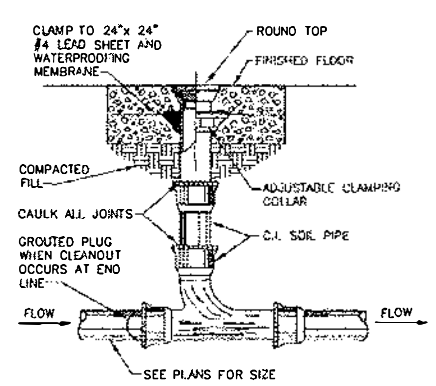


MOP SINK SPLASH (10) P1.2 P2.1
SCALE: NONE

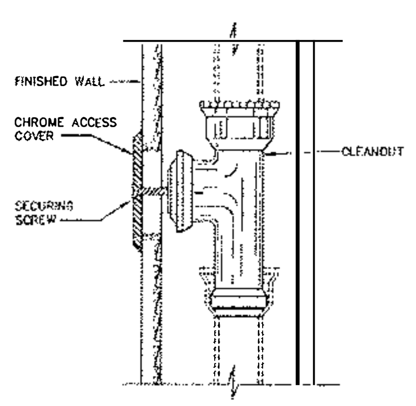


NOTE: FLOOR SINK INSTALLED SIMILARLY.

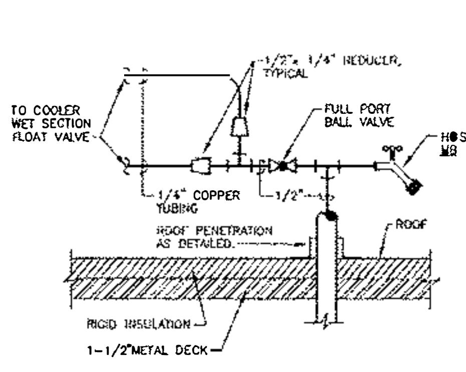
FLOOR DRAIN DETAIL (11) P1.2 P2.1
SCALE: NONE



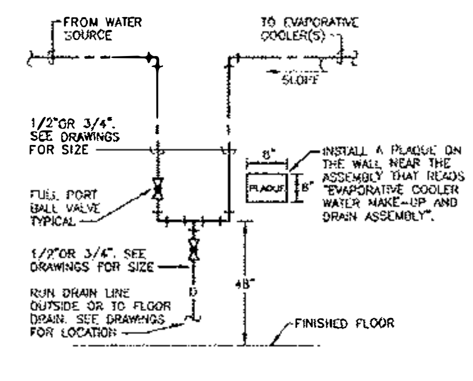
FLOOR CLEANOUT DETAIL (12) P1.1 P2.1 P1.2
SCALE: NONE



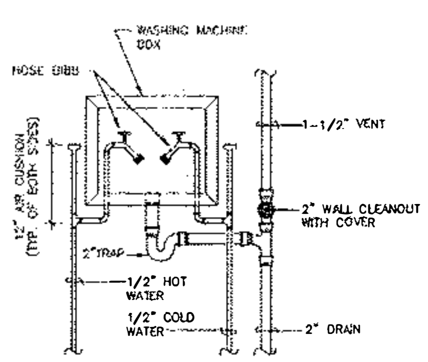
WALL CLEANOUT DETAIL (13) P1.1 P2.1 P1.2
SCALE: NONE



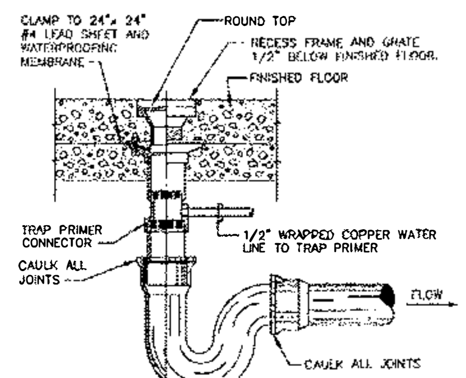
EVAPORATIVE COOLER WATER CONNECTION DETAIL (14) M2.1 P2.1
SCALE: NONE



EVAPORATIVE COOLER MAKE-UP AND DRAIN ASSEMBLY (15) P1.2 P2.1
SCALE: NONE



WASHING MACHINE BOX DETAIL (16) P1.2 P2.1
SCALE: NONE



FLOOR DRAIN DETAIL (17) P1.1 P2.1 P1.2
SCALE: NONE

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
WC	WATER CLOSET: Wall hung, vitreous china, flush valve, water saver water closet with elongated bowl and 1-1/2" top spud. American Standard AFWALL model 2257.103. Furnish with a Zurn Aquaflush Z-6000-WS flush valve, heavy duty floor supported carrier and a open front seat less cover. Trap ---- Vent 2" CW 1" HW ----
WC-1	WATER CLOSET: Handicapped accessible, wall hung, vitreous china, flush valve, water saver water closet with elongated bowl and 1-1/2" top spud. American Standard AFWALL model 2257.103. Furnish with a Zurn Aquaflush Z-6000-WS flush valve with ADA compliant handle, heavy duty floor supported carrier and a open front seat with cover. Trap ---- Vent 2" CW 1" HW ----
UR	URINAL: Wall hung, vitreous china, flush valve, water saver urinal with a 1-1/4" top spud. American Standard Lynbrook model 6601.012. Furnish with a Zurn Aquaflush Z-6001 flush valve and floor supported carrier. Mounting height is 24" to top of rim. Trap ---- Vent 1-1/2" CW 1" HW ----
UR-1	URINAL: Handicapped accessible, wall hung, vitreous china, flush valve, water saver urinal with a 1-1/4" top spud. American Standard Lynbrook model 6601.012. Furnish with a Zurn Aquaflush Z-6001 flush valve and floor supported carrier. Mounting height is 17" to top of rim. Trap ---- Vent 1-1/2" CW 1" HW ----
LAV	LAVATORY: Handicapped accessible, self-rimming, vitreous china, countertop lavatory with front overflow and 4" center faucet holes, American Standard Aqualyn model 0476.028. Furnish with faucet, grid drain, adjustable P-trap, tail piece, riser tubes and loose key angle stops. Faucet shall be a Bradley Futura model 900 with ACCU-ZONE infrared metering control, solenoid valves and 120 to 24 VAC transformer (see the Plumbing Floor Plan and the electric drawings to determine the transformer size required). Note: Insulate exposed piping with Trap Wrap brand insulating system. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW 1/2"
SK	CERAMIC SINK: Single compartment, self-rimming, stainless steel sink constructed of seamless drawn type 302 stainless steel. Elkay Lustertone model LR-2219 with three 4" centerset faucet holes. Furnish with model LK-99 deluxe drain, adjustable P-trap, tail piece, Zurn model Z-1180 solids interceptor, riser pipes, loose key angle stops and American Standard Heritage, concealed mount, gooseneck faucet model 7230.00 with ceramic disc valves and model 342V lever handles. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW 1/2"
SK-1	SINK: Handicapped accessible single compartment, self-rimming, stainless steel sink constructed of seamless drawn type 302 stainless steel. Elkay Lustertone model LR-2219-6 1/2" with three 4" centerset faucet holes. Furnish with model LK-99 deluxe drain, adjustable P-trap, tail piece, riser pipes, loose key angle stops and American Standard Heritage, concealed mount, gooseneck faucet model 7230.00 with ceramic disc valves and model 342V lever handles. Maximum sink depth shall be 6-1/2". Note: Insulate exposed piping with Trap Wrap brand insulating system. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW 1/2"
TV-1	THERMOSTATIC MIXING VALVE: Leonard high-low manifold system utilizing type TM mixing valves with Duro-Trol solid bimetal thermostat motor, adjustable temperature limit stop (factory set for 105°F), unions and check stops, color coded dials, integral wall support, bronze, brass and stainless steel internal parts, and rough bronze finish. Furnish with a dial type discharge water temperature indicator, regulating valve, pressure gauges, valves. Unit shall be factory assembled. Symbol: TV-1 — Model: TM-186-30TA-PRV — Flow (GPM): 19 — Pressure Drop (PSIG): 10 — Minimum Flow (GPM): 0.5
HS ADD. ALT. No. 2	HAND SINK: Wall hung, stainless steel hand wash sink with oval shaped bowl, 2" wide apron, and underside sound deadened. ElKay model ELV-1817. Furnish with two Chicago Faucet No. 700 chrome plated faucets, pop-up drain, adjustable P-trap, tail piece, riser tubes, loose key angle stops and floor supported carrier. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW 1/2"
PS ADD. ALT. No. 2	PREP SINK: Elkay Sturdibilt model SS-8124 scullery sink, constructed of 14 gauge type 304 stainless steel with smooth ground welds, channel rim, polished to an LK-5K satin finish, 1-5/8"O.D. tubular stainless steel legs with adjustable feet, 8" high backsplash drilled for faucets. Furnish sink complete with LK-24-RT waste fitting with lever handle, an LK-499 chrome plated gooseneck faucet, a Hobart model FD2-125 disposal with 1-1/4 h.p. 120 Volt/1 Phase motor and all required fittings and piping. Furnish disposal with a group 4 manual reversing switch and group E waste and drain accessories. Trap ---- Vent ---- CW 1/2" HW 1/2"
TCS ADD. ALT. No. 2	TRIPLE COMPARTMENT SINK: Elkay Sturdibilt model SS-8345 scullery sink, constructed of 14 gauge type 304 stainless steel with smooth ground welds, channel rim, polished to an LK5K satin finish, 1-5/8"O.D. tubular stainless steel legs with adjustable feet, 8" high backsplash drilled for faucets. Furnish sink complete with LK-24-RT waste fittings with lever handle, one LK-66-C chrome plated swing spout faucet, and a LK-167 pre-rinse swing spout with 24" riser. Trap ---- Vent ---- CW 1/2" HW 1/2"
MB	MOP BASIN: Precast Terrazzo mop basin with stainless steel caps, integral stainless steel drain body and removable stainless steel strainer. Fiat model TSB-100 (24"x 24"x 12"). Furnish complete with mop hanger model 889-CC, hose and hose bracket model 832-AA and service faucet model 830-AA complete with integral stops, vacuum breaker, adjustable wall brace, pail hook and 3/4" hose thread spout. Trap 3" Vent 2" CW 1/2" HW 1/2"

NOTE:

A. 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/ENGINEER FOR APPROVAL.

FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
EWC	ELECTRIC WATER COOLER: Wall mounted, barrier free water cooler with self-closing push bars on front and both sides and a refrigeration system capable of cooling 8 gpm of 50 degree F water with a 1/6 h.p. 120 Volt/1 Phase compressor. Haws model HWBFA8 with a stainless steel receptor and a laminated vinyl on steel apron (color selected by Architect). Furnish with adjustable P-trap, loose key angle stop, wall mounting bracket and all required items. Mount at 43 inches above finished floor to center of bubbler jet. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW ----
EWC-1	ELECTRIC WATER COOLER: Wall mounted, barrier free water cooler with self-closing push bars on front and both sides and a refrigeration system capable of cooling 8 gpm of 50 degree F water with a 1/6 h.p. 120 Volt/1 Phase compressor. Haws model HWBFA8 with a stainless steel receptor and a laminated vinyl on steel apron (color selected by Architect). Furnish with adjustable P-trap, loose key angle stop, wall mounting bracket and all required items. Mount at 36 inches above finished floor to center of bubbler jet. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW ----
EWC-2 ADD. ALT. No. 3	ELECTRIC WATER COOLER: Recessed, barrier free water cooler with self-closing push button and a refrigeration system capable of cooling 8 gpm of 50 degree F water with a 1/5 h.p. 120 Volt/1 Phase compressor. Haws model HWCT8 with a stainless steel receptor and grille. Furnish with adjustable P-trap, loose key angle stop, wall mounting bracket and all equired items. Mount at 36 or 43 (as indicated) inches above finished floor to center of bubbler jet. Trap 1-1/2" Vent 1-1/2" CW 1/2" HW ----
WB	WASHER BOX: Acme metal "Safe-T-Drip" washer box. Furnish with a 12"x 8"receptacle, 14"x 9-1/2"cover flange, 21"high (minimum) standpipe with P-trap in wall and ball type shut-off valves with hose connections. Trap 2" Vent 1-1/2" CW 1/2" HW 1/2"
HB	HOSE BIBB: 1/2" flange female inlet, 3/4" hose thread outlet, lock shield cap, tee handle and polished chrome plate finish. Chicago Faucet No. 387. Trap ---- Vent ---- CW 1/2" HW ----
WH	WALL HYDRANT: Zurn model Z-1310 freeze proof wall hydrant with integral vacuum breaker, polished bronze face and loose key valve actuator. Trap ---- Vent ---- CW 3/4" HW ----
TWH	TEMPERING WALL HYDRANT: Zurn model Z-1325 "Vari-Temp" combination hot and cold water encased wall hydrant for flush installation complete with bronze casing, nickel-bronze box and hinged cover with cylinder lock, and vacuum breaker. Trap ---- Vent ---- CW 3/4" HW 3/4"
FS	FLOOR SINK: Zurn model Z-1751 12"x 12"x 8" deep, 14 gage, type 304 stainless steel Soni-Flor receptor with non-tilt, loose set 1/2 grate and anti-splash interior dome strainer. Trap 2" Vent 1-1/2" CW ---- HW ----
FS-1	FLOOR SINK: Zurn Z-1901 Soni-Flor receptor, 12"x 12"x 8" deep cast iron body and square slotted 3/4 grate, with acid resisting porcelain enamel interior and top and aluminum anti-splash interior bottom dome strainer. Trap 3" Vent 2" CW ---- HW ----
FD	FLOOR DRAIN: Zurn model ZN-415 floor drain with Duro-Coated cast iron body with bottom outlet, combination invertible membrane clamp and a justable type "B" nickel bronze strainer. Trap 2" Vent 1-1/2" CW ---- HW ----
FD-1	FLOOR DRAIN: Zurn model ZN-415-P floor drain with Dura-Coated cast iron body with bottom outlet, combination invertible membrane clamp, trap primer connection, and adjustable type "B" nickel bronze strainer. Trap 2" Vent 1-1/2" CW 1/2" HW ----
GI	GREASE TRAP: Zurn model Z-1170-RE size 600 fabricated steel grease interceptor for recessed installation with oven baked acid resisting epoxy interior and exterior, internal air relief by-pass, bronze cleanout plug, visible double wall trap seal and removable pressure equalizing/flow diffusing baffle and sediment container and gas securing handle. Furnish with flow control fitting model Z-1108. Extension height shall be as required. Trap ---- Vent 2" CW ---- HW ----
FCO	FLOOR CLEANOUT: Zurn model ZN-1400-BP "Level-Tral Tuf-Top" Duro-Coated cast iron cleanout with heavy duty, round, scoriated nickel bronze top, adjustable to finished floor and bronze plug. Trap ---- Vent ---- CW ---- HW ----
WCO	WALL CLEANOUT: Zurn model Z-1446-BP Dura-Coated cast iron cleanout tee with bronze plug and round stainless steel access cover, with vandal proof securing screw. Trap ---- Vent ---- CW ---- HW ----
TP	TRAP PRIMER: Precision Plumbing Products, Inc. model PI-500 adjustable trap primer with a model DIJ-2 distribution unit for 2 trap distribution. Trap ---- Vent ---- CW 1/2" HW ----
SA-1,2	SHOCK ABSORBER: Zurn model Z-1700 Shoktrol water hammer arrestor constructed entirely of stainless steel. SA-1 : Size 400; SA-2 : Size 200. Trap ---- Vent ---- CW 1" HW ----
RD	ROOF DRAIN: Zurn model ZA-100-AC-R roof drain with Dura-Coated cast iron body with roof sump receiver and underdeck clamp. Drain shall have combination membrane flashing clamp/gravel guard and low silhouette aluminum-dome. Trap ---- Vent ---- CW ---- HW ----
DSN	DOWNSPOUT NOZZLE: Zurn model ZANB-199 downspout nozzle with nickel bronze body, threaded inlet, decorative face of wall flange and outlet nozzle. Trap ---- Vent ---- CW ---- HW ----
BFP-1	BACKFLOW PREVENTER: UI listed for fire protection service and vertical installation, double backflow preventer with two positive seating check valves. The assembly shall constain an OS&Y valve with supervisory switch before and after the device, and test cocks. The unit shall be epoxy coated cast iron with bronze seats. Unit is rated for 110°F and 175 psi operation. The 4" unit shall be capable of flowing 600 gpm with a 7 psi pressure drop.
WH-1	WATER HEATER: Gas-fired water heater with 50 gallon glass lined tank, and ic tank protection, thick permafoam insulation, low input pilot, steel burner, brass drain valve, gas valve and all safety and control devices required for a complete operating unit. A.O. Smith Conservationist model PGCT-50 capable of 65 gph revovery rate with a 90°F temperature rise and a 60,000 Btuh sea level input.
CP-1 and CP-2	PUMP: Horizontal, in-line, bronze body, glass filled Noryl impeller, carbon on ceramic shaft seal, carbon steel shaft and non-overloading motor. Bell and Gossett model LR-15B capable of 8 gpm at 11 ft. head with a 1/12 h.p., 120 Volt/1 Phase motor. Furnish with an aqua-stat controller.
TET-1	THERMAL EXPANSION TANK: Diaphragm type, ASME rated, thermal expansion with steel tank, rigid polypropylene liner, heavy duty butyl diaphragm, stainless steel connection and an initial fill pressure of 55 psig. Model numbers are Expanflex. Symbol: TET-1 — Model: BFA-12 — Tank Volume: 4.7 gallons — Accept. Volume: 2.9 gallons

BROWN ENGINEERING
149 JACKSON St. NE
ALBUQUERQUE, NEW MEXICO 87108

10-02-98

PLUMBING FIXTURE SCHEDULE AND DETAILS

NE SAN JUAN COUNTY FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

DLR Group

P2.1

3298102-00
DATE: OCT. 02, 1998

KEYED NOTES

1. THIS LINE INDICATES THE AREA OF FIRE SPRINKLER WORK. ALL FIRE PROTECTION WORK IN THIS AREA IS ADDITIVE ALTERNATE No. 4.
2. RISE THE 4" WATER LINE UP FROM BELOW GRADE AND INSTALL THE VERTICAL BACKFLOW PREVENTER IN THE LINE JUST BELOW THE FIRE RISER.
3. INSTALL THE POST INDICATOR VALVE, IN THE FIRE PROTECTION LINE, AT THIS LOCATION. INDICATOR VALVE INSTALLED SHALL BE PER THE LOCAL FIRE DEPARTMENT STANDARDS AND SHALL BE INTERLOCKED WITH THE FIRE ALARM SYSTEM.
4. FIRE DEPARTMENT CONNECTION. INSTALL FOUR 4"ø CONCRETE FILLED STEEL BALLARDS AROUND THE CONNECTION.
5. WET PIPE FIRE RISER WITH REQUIRED 4'- 0"± 4'- 0" CLEARANCE SHOWN. INSTALL RISER PER DETAIL 1/FP1.1/FPL1. INSTALL A STEEL GUARD RAIL AROUND THE RISER.
6. CAP FIRE PROTECTION LINE FOR FUTURE CONNECTION.
7. SEE UTILITY SITE PLAN, SHEET C1.1 FOR CONTINUATION.

GENERAL NOTES :

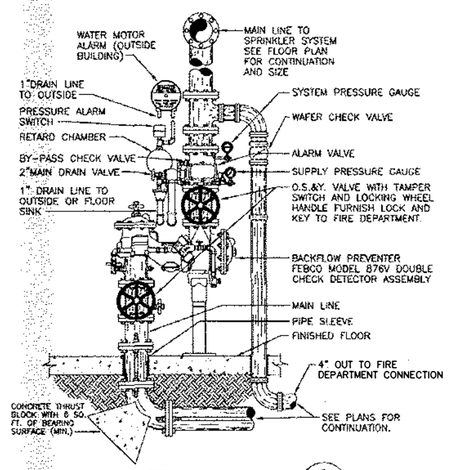
A. THE GYMNASIUM 121, VESTIBULE 122, ARE THE ONLY AREAS THAT REQUIRE A FIRE SPRINKLER SYSTEM.

B. THE FIRE RISER AND WATER SUPPLY MAIN LINE ARE PART OF THE BASE BID.

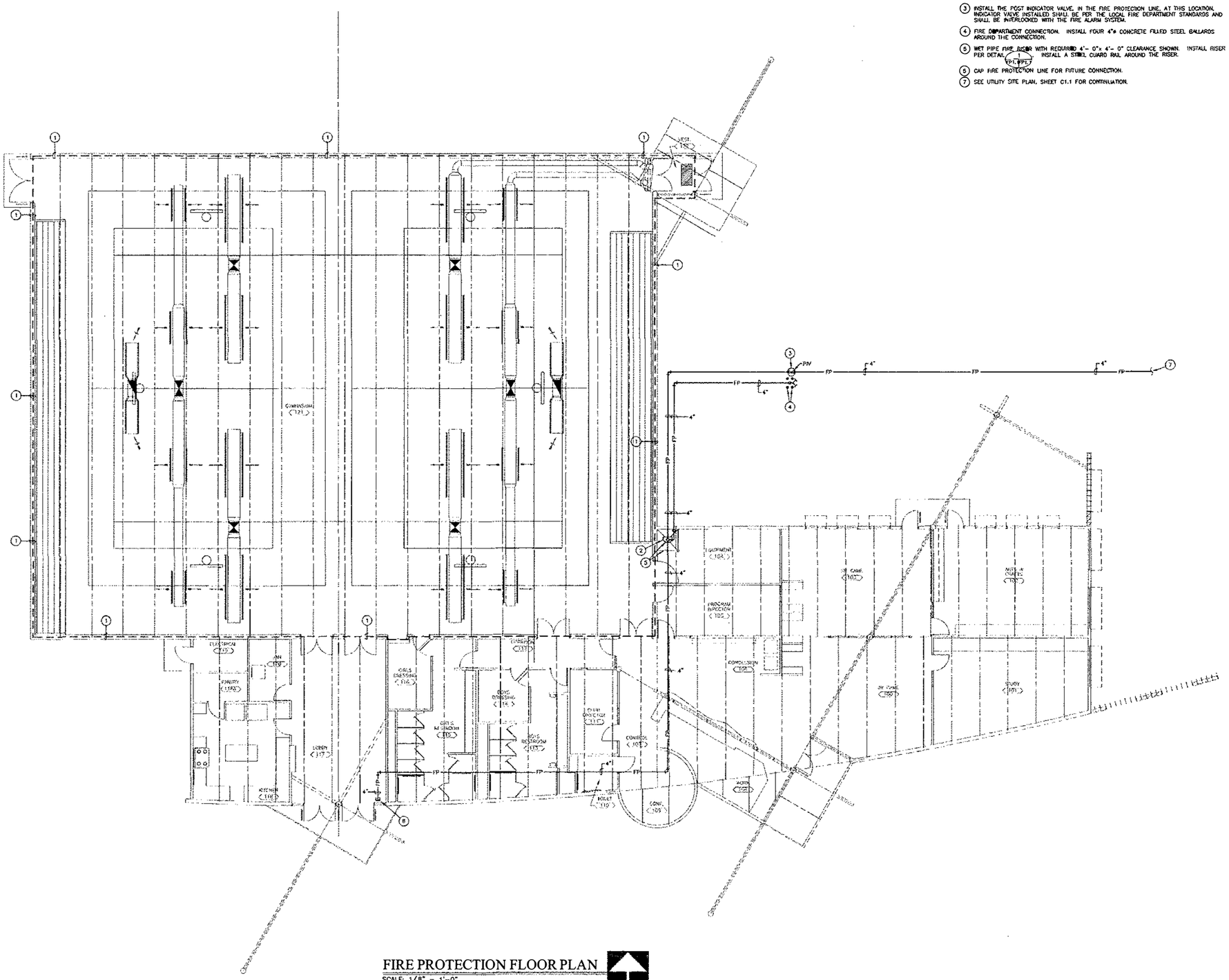
C. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 FOR LIGHT HAZARD OCCUPANCY.

D. THIS FLOOR PLAN WILL BE PROVIDED TO THE SUCCESSFUL FIRE PROTECTION CONTRACTOR AS A MYLAR TRACING OR AN AutoCAD REL. 14 DRAWING FILE. TO AID IN THE PREPARATION OF THE FIRE PROTECTION SHOP DRAWINGS. TO ACQUIRE MYLAR OR DRAWING FILE ON MAGNETIC MEDIA CALL BROWN ENGINEERING (505) 265-0900.

NOTES:
A. SPACE REQUIRED FOR PIPING SHALL BE KEPT TO A MINIMUM. PIPING LAYOUT SHALL BE APPROVED BEFORE WORK COMMENCES.
B. BELOW GRADE CLAMPS, RODS AND OTHER STEEL FITTINGS AT ANCHORS SHALL BE COVERED WITH A THICK COATING OF ASPHALT.



WET PIPE FIRE RISER DETAIL 1 / FP1.1/FPL1
SCALE: NONE



FIRE PROTECTION FLOOR PLAN
SCALE: 1/8" = 1'-0"
0 4 8 12
NORTH

BROWN ENGINEERING
149 JACKSON St. NE
ALBUQUERQUE, NEW MEXICO 87108

CHARLES F. BROWN — NEW MEXICO — 7920 — REGISTERED PROFESSIONAL ENGINEER
10-02-98

NE SAN JUAN COUNTY FAMILY CENTER
DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

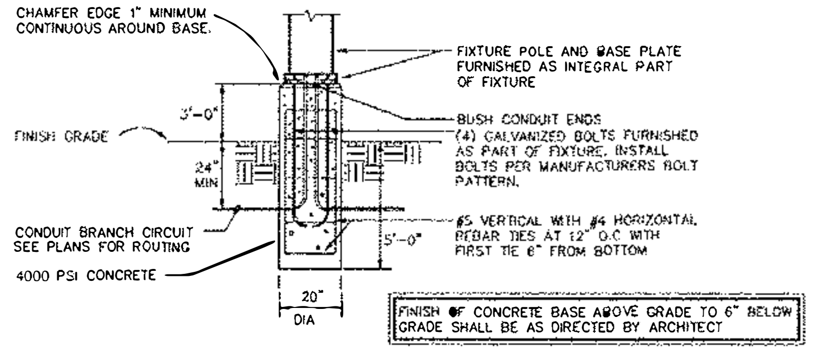
FIRE PROTECTION FLOOR PLAN

3298102-00
DATE: OCT. 02, 1998

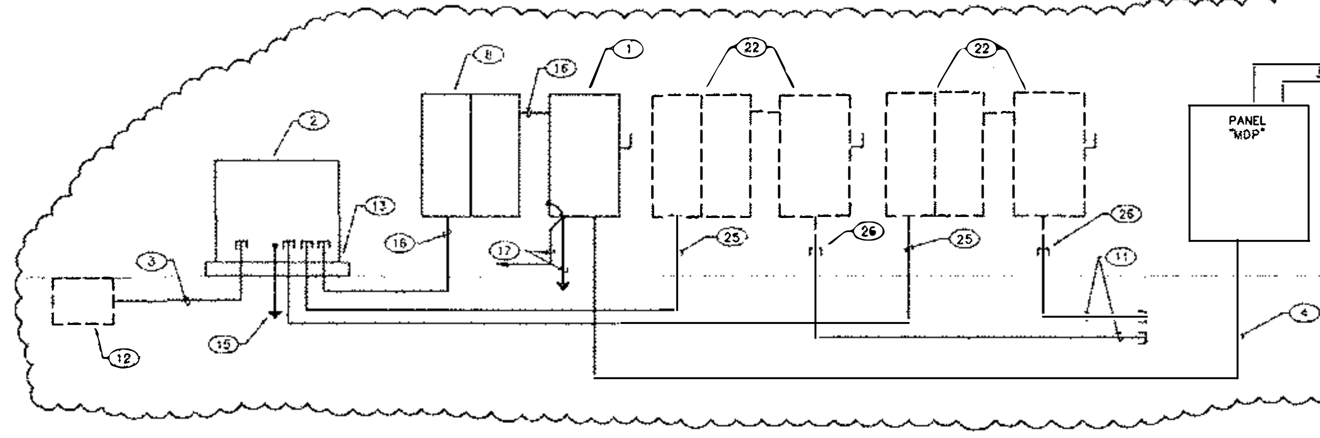
DLR Group FP1.1

SYMBOL LEGEND

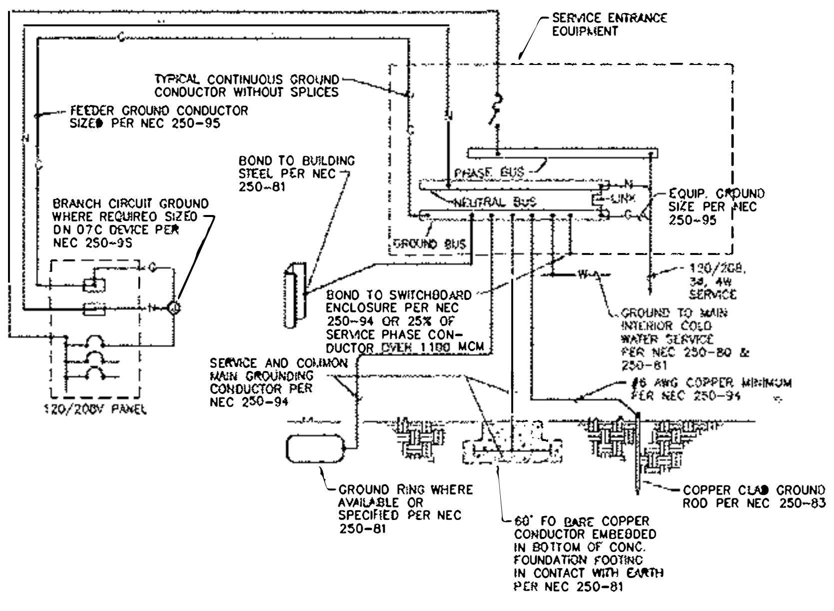
SYMBOL	DESCRIPTION
	CEILING OR WALL BRACKET FIXTURE. SEE FIXTURE SCHEDULE.
	FLUORESCENT OUTLET AND FIXTURE. SEE FIXTURE SCHEDULE.
	POLE MOUNTED FIXTURE. SEE FIXTURE SCHEDULE.
	EXIT LIGHT. ARROWS INDICATE DIRECTIONAL ARROW ON FIXTURE.
	J-BOX ABOVE LAY-IN CEILING W/ FLEX CONDUIT TO LAY-IN FIXTURES
$	SINGLE POLE WALL SWITCH. UP +48".
$T	THERMAL O.L. SWITCH
$K	KEYED SWITCH, UP +48". SEE PLANS
$3	THREE WAY SWITCH, UP +48" TO CENTER.
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE. UP +18" UNLESS OTHERWISE INDICATED
	FOURPLEX CONVENIENCE OUTLET, GROUNDING TYPE. UP +18" UNLESS OTHERWISE INDICATED
	SPECIAL PURPOSE OUTLET SEE PLANS FOR RATINGS
	250V-2P-4W SPECIAL PURPOSE GROUNDING OUTLET. AMPERAGE AS INDICATED.
	JUNCTION BOX FLUSH IN WALL WITH CONNECTION TO EQUIPMENT.
	COMBINATION DATA/VOICE, DOUBLE GANG BOX WITH SINGLE GANG REDUCER PLASTER RING, MOUNTED STANDARD HEIGHT ABOVE FLOOR OR COUNTER TOP OR AS NOTED. PROVIDE 3/4" EMPTY CONDUIT WITH PULLCORD TO TELEPHONE BACKBOARD. DATA/VOICE CABLING AND DEVICE BY OWNER. SEE TELEPHONE BACKBOARD DETAIL. PROVIDE WITH LABELS ON INTERIOR AND EXTERIOR OF BOX
	FIRE ALARM PULL STATION UP +48" SEE SPECS AND PLANS
	FIRE ALARM STROBE UP +80". SEE SPECS AND PLANS
	FIRE ALARM HORN/STROBE UP +80" SEE SPECS AND PLANS
	FIRE ALARM SMOKE DETECTOR. COMBINATION IONIZATION/PHOTOELECTRIC
	TRANSFORMER. SEE PLANS AND RISER DIAGRAM.
	THERMOSTAT, UP 48" UNLESS OTHERWISE INDICATED.
	DISCONNECT SWITCH. SIZE AND POLES FOR LOAD CONNECTED.NEMA 3R
	ELECTRIC PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.
	MOTOR CONNECTION, FRACTIONAL H.P (LESS THAN 1/3 HP)
	CEILING MOUNTED SPEAKER.
	BRANCH CIRCUIT IN WALLS OR CEILING WITH CONDUCTORS INDICATED.
	BRANCH CIRCUIT IN WALLS OR UNDER FLOOR, CONDUCTORS INDICATED.
A-1,3	HOME RUN TO PANEL, WITH BRANCH CIRCUIT NUMBERS INDICATED.
	TELEPHONE OUTLET. SINGLE GANG BOX MOUNTED STANDARD HEIGHT ABOVE FLOOR OR CONCRETE OR AS NOTED. EXTEND 3/4" CONDUIT WITH PULLSTRING BACK TO EQUIPMENT STORAGE RM 104. COORDINATE REQUIREMENTS WITH LOCAL CABLE PROVIDER.



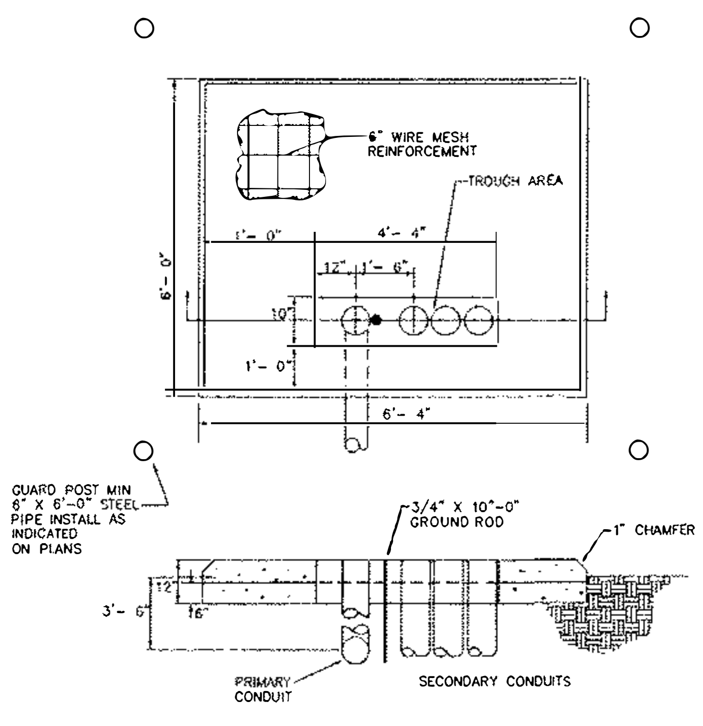
POLE MOUNTING DETAIL



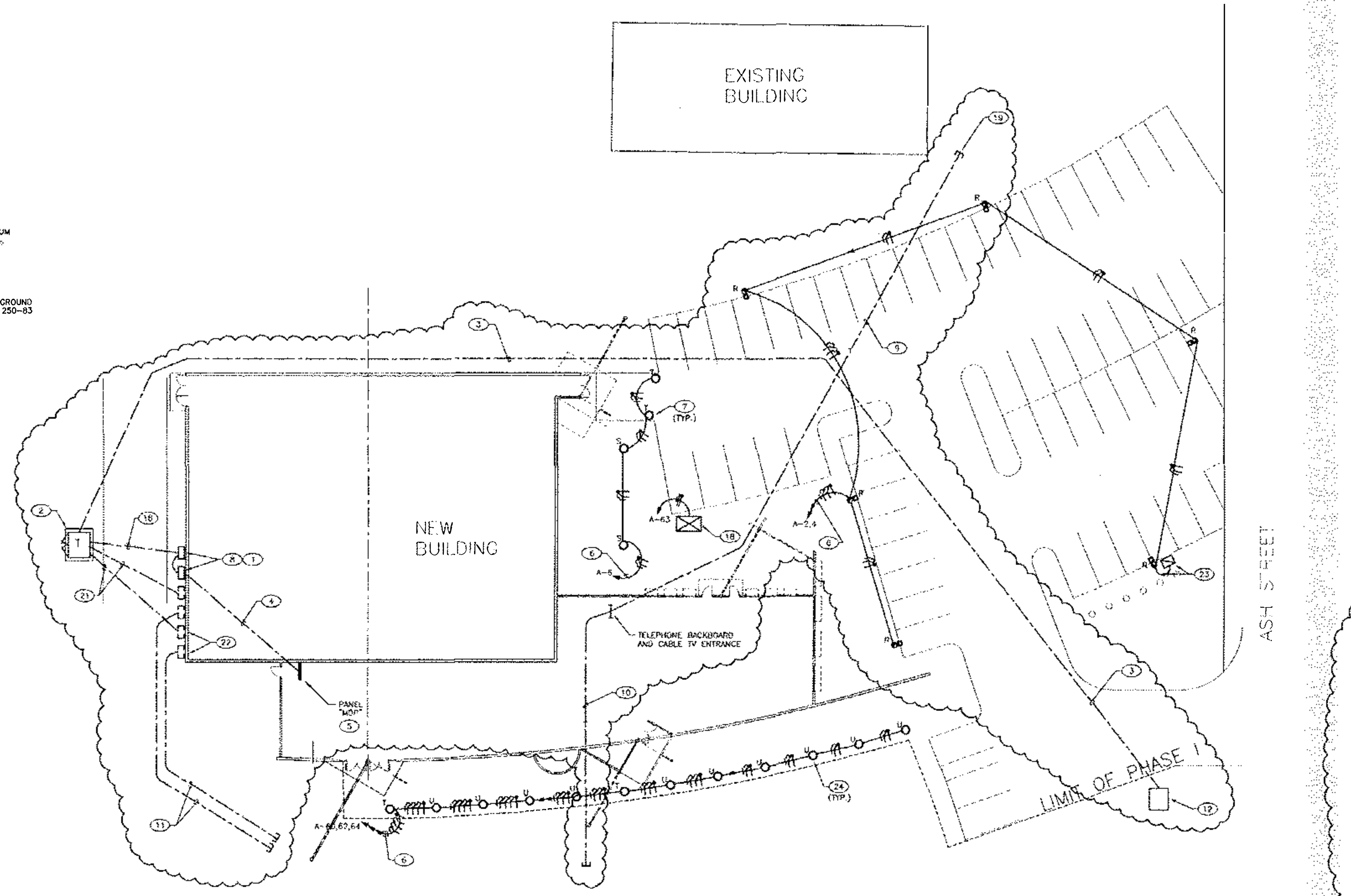
POWER RISER DIAGRAM



TYPICAL BUS GROUNDING DETAIL



THREE PHASE RADIAL FEED TRANSFORMER PAD DETAIL



ELECTRICAL SITE PLAN

SCALE: 1"=20'

KEYED NOTES

1. MAIN BUILDING DISCONNECT SWITCH, 400 AMP, 3 POLE + SN, 250 VOLT, FUSIBLE, NEMA 3R ENCLOSURE. FUSE AT 400 AMPS WITH BUSSMANN LPS-RK LOW PEAK FUSES.
2. PAD MOUNTED DISTRIBUTION TRANSFORMER PROVIDED AND INSTALLED BY AZTEC MUNICIPALITY ELECTRICAL POWER DEPARTMENT. COORDINATE LOCATION TO AVOID FIRE ACCESS ROAD AND 100' RADIO TOWER EASEMENT.
3. EXTEND 4" PVC UNDERGROUND CONDUIT, MINIMUM 42" BELOW FINISHED GRADE. EXTEND TO UNDERGROUND VAULT/SPLICE BOX PER NOTE #12. MEDIUM VOLTAGE CABLING SHALL BE FURNISHED BY AZTEC POWER COMPANY AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE REQUIREMENTS AND EASEMENT WITH AZTEC POWER COMPANY AND COMPLY.
4. 4" CONDUIT WITH 4-500 KCMIL THWN COPPER CONDUCTORS + 1-#2 GROUND.
5. SEE PANEL SCHEDULES ON SHEET E2.1 POWER AND SPECIAL SYSTEMS PLANS.
6. EXTEND #8 COPPER CONDUCTORS AS INDICATED THROUGH EXTERIOR LIGHTING CONTACTOR. SEE EXTERIOR LIGHTING CONTROL DIAGRAM.
7. INSTALL TYPE "T" BOLLARDS IN SIDEWALK PER FIXTURE MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ARCHITECT AND COMPLY.
8. METER AND CT ENCLOSURE PER LOCAL UTILITY COMPANY REQUIREMENTS.
9. EXTEND TWO 4" CONDUITS FOR TELEPHONE CABLING AND ONE 1 1/2" CONDUIT FOR CABLE TV. PROVIDE PULL CORDS. SEE SPECIFICATIONS AND GENERAL NOTES.
10. EXTEND TWO (2), 2" CONDUITS FROM TELEPHONE BACKBOARD DIRECTLY SOUTH TO A POINT 5' PAST THE CONCRETE EDGE. COORDINATE EXACT STUB LOCATION IN THE FIELD. CAP AND MARK LOCATION FOR FUTURE PHASES.
11. STUB TWO (2) SETS OF TWO (2), 4" CONDUITS AS INDICATE FOR SERVICE ENTRANCE CONDUCTORS TO FUTURE PHASE II AND PHASE III PROJECTS. CAP CONDUITS AND PROVIDE PERMANENT ENGRAVED BRASS MARKER SET IN CONCRETE FOR FUTURE REFERENCE.
12. 30"x48"x24" DEEP QUAZITE BOX #PG3048BA WITH LOCKING COVER #PG3048CA AND PENTAHEAD BOLTS. COVER TO READ "ELECTRIC POWER".
13. CONCRETE TRANSFORMER PAD PER DETAIL ON THIS SHEET.
14. EXTEND 4-#4/0 THHN/THWN AND 1-#4 COPPER GROUND CONDUCTOR IN 2 1/2" CONDUIT.
15. 3/4" X 10' GROUND ROD CONNECT GROUND CONDUCTOR TO TRANSFORMER AS REQUIRED.
16. 4" CONDUIT WITH 4-500 KCMIL THWN COPPER CONDUCTORS.
17. 1/2" CONDUIT WITH 1-#6 BSD COPPER GROUNDING ELECTRODE CONDUCTOR TO 3/4" X 10' GROUND ROD AND 1" CONDUIT WITH 1-#3/0 TO SERVICE GROUNDING ELECTRODES PER NEC ARTICLE #250 AND GROUNDING DETAIL ON THIS SHEET.
18. COORDINATE LOCATION OF BACKFLOW PREVENTOR "HOT BOX" WITH MECHANICAL CONTRACTOR. EXTEND CIRCUIT AS INDICATED AND PROVIDE 120 VOLT RECEPTACLE AND HEAT TAPE AS REQUIRED.
19. EXTEND CONDUITS PER NOTE #9 TO LOCATION INDICATED. CAP AND MARK CONDUITS FOR FUTURE REFERENCE. CONDUIT EXTENSION FROM THIS LOCATION SHALL BE BY OTHERS.
20. WHEREVER PRACTICABLE, THE CONTRACTOR MAY PROVIDE A SHARED COMMON TRENCH FOR UTILITIES. COMMON TRENCH WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH AZTEC ELECTRICAL POWER DEPARTMENT REQUIREMENTS. SPECIAL SYSTEMS SHALL BE SEPARATED BY A MINIMUM OF 18" FROM ALL POWER CONDUITS.
21. TWO (2) SETS OF TWO (2), 4" CONDUITS STUBBED FROM TRANSFORMER SECONDARY COMPARTMENT TO LOCATION OF FUTURE METERING AND CT CABINETS FOR PHASES II AND III. PROVIDE PULL ROPE IN CONDUITS AND CAP.
22. FUTURE METERING AND CT CABINET AND MAIN DISCONNECT SWITCH FOR PHASE II AND III PROJECTS. ALLOW SUFFICIENT SPACE ON WALL FOR MINIMUM 800 AMP, MAIN DISCONNECT SWITCHES
23. PROVIDE AND INSTALL FLUSH GROUND JUNCTION BOX, QUAZITE #PC0818GA WITH LOCKING COVER AND PENTAHEAD BOLTS. COVER TO READ "LIGHTING". QUAZITE #PCD818SB. EXTEND 1" EMPTY CONDUIT WITH PULLCORD AS SHOWN.
24. COORDINATE AIMING FOR ALL TYPE "U" AND "S" FIXTURES WITH ARCHITECT AND OWNER'S REPRESENTATIVE. ANY CORRECTIVE ACTIONS NECESSARY TO SATISFY THE ARCHITECT'S REQUIREMENTS AFTER INSTALLATION WILL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST.
25. TWO (2), 4" CONDUITS WITH PULL ROPE FROM TRANSFORMER SECONDARY COMPARTMENT TO LOCATION OF FUTURE METERING AND CT CABINET. STUB CONDUITS UP 12" ABOVE GRADE AND CAP.
26. STUB-UP CONDUITS PER NOTE #11 AT LOCATION UNDER FUTURE MAIN DISCONNECT SWITCHES FOR PHASE II AND III PROJECTS. STUB CONDUITS UP 12" ABOVE GRADE AND CAP.

GENERAL NOTES

A. WHERE THERE IS A CONFLICT BETWEEN THE ELECTRICAL LIGHTING PLAN AND THE ARCHITECTURAL REFLECTED CEILING PLAN, THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL TAKE PRECEDENCE.

B. COORDINATE LOCATIONS OF ALL MECHANICAL CONTROLS WITH MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS.

C. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS PRIOR TO BID, TO ALLOW HIM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE PLANS AND SPECIFICATIONS. ANY QUESTION ARISING DURING THE BID PERIOD IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.

D. ALL WIRING SHALL BE ROUTED IN CONDUIT AND SHALL BE CONCEALED IN WALLS AND ABOVE CEILINGS, UNLESS OTHERWISE INDICATED.

E. THE CONDUIT RUNS AS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.

F. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC. ALL WIRES SHALL BE TAGGED AT PULL BOXES AND JUNCTION BOXES WITH APPROVED PLASTIC TAGS.

G. ALL CONDUIT SHALL BE BUILT WITH BENDS MADE IN ACCORDANCE WITH THE NEC, TABLE 346-10. NO RIGHT ANGLE DEVICES OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2" AND LARGER.

H. EACH CONDUIT TERMINATION SHALL BE PROVIDED WITH A PLASTIC INSULATED THROAT BUSHING OR A THREADED PLASTIC INSULATING BUSHING – NO EXCEPTIONS.

I. ALL WIRE SHALL BE TYPE THHN/THWN, SOLID, ANNEALED COPPER UP TO SIZE #10 AWG (#8 AND LARGER SHALL BE CONCENTRIC STRANDED) 75 DEGREE C, (167 DEGREES F), 98% CONDUCTIVITY, MINIMUM #12.

J. ALL NEW MATERIAL SHALL HAVE AN U.L. LABEL.

K. THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO WALLS, CEILING, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENING WITH MATCHING MATERIAL. PROVIDE PITCH PANS WHERE CONDUITS PENETRATE EXISTING ROOF OF TYPE APPROVED.

L. ALL CONDUITS SHALL BE CONCEALED IN WALLS AND CEILINGS. EXPOSED CONDUIT WILL NOT BE ACCEPTED, EXCEPT IN UTILITY AREAS.

M. ROOF PENETRATIONS SHALL BE OF TYPE APPROVED BY THE ARCHITECT. CONDUITS INSTALLED ON THE ROOFS SHALL BE SUPPORTED 4'-0" ON CENTERS UTILIZING 4"X4" REDWOOD BLOCKS HOT TAR MOPPED TO THE ROOF. COORDINATE ROUTING WITH MECHANICAL/PLUMBING UTILITIES. ALL CONDUITS SHALL BE RUN PARALLEL AND PERPENDICULAR TO BUILDING EXTERIOR WALLS AND PARAPETS.

N. CONDUIT ROUGH-IN SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR TO AVOID LOCATION CONFLICTS. VERIFY WITH MECHANICAL AND COMPLY AS REQUIRED.

O. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN NOT HAND WRITTEN.

P. ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE PERFORMED USING LIQUID-TIGHT FLEXIBLE CONDUIT.

Q. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS PER THE SPECIFICATIONS AND NEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, AND ALL DISCONNECT SWITCHES, STARTERS, AND MECHANICAL EQUIPMENT CABINETS.

R. ALL DISCONNECT SWITCHES, STARTERS, AND OTHER CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUIT INSTALLED ON, AND PANEL LOCATION FED FROM (NO EXCEPTIONS).

S. LABEL ALL EXHAUST FAN INTERIOR EXHAUST FAN SWITCHES WITH ENGRAVED LAMICOID NAMEPLATES READING "EXHAUST FAN".

T. ALL ELECTRICAL DEVICES AND INSTALLATION OF THE DEVICES SHALL COMPLY WITH (ADA) AMERICANS WITH DISABILITIES ACT AS ADOPTED BY THE STATE OF NEW MEXICO.

NOTE: ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY NOT BE CORRECT AS SHOWN ON THESE DRAWINGS). LOCATION OF OUTLETS, BOXES, ETC. AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.

LOAD SUMMARY

120/208 VOLT, 3 PHASE, 4 WIRE

LOAD	CONNECTED KVA	DEMAND KVA
LIGHTS	23.8 KVA	29.8 KVA
RECEPTACLES	24.7 KVA	18.4 KVA
MECHANICAL	88.4 KVA	55.2 KVA
SUB-TOTAL PHASE I	136.9 KVA	103.4 KVA
FUTURE PANEL "G"	30 KVA	30 KVA
TOTAL PHASE I	166.9 KVA	133.4 KVA
FUTURE PHASE II		250 KVA
FUTURE PHASE III		150 KVA
TOTAL (INCLUDING FUTURE PHASES)		533.4 KVA

SHORT CIRCUIT CALCULATION

ASSUME BUILDING TRANSFORMER = 500 KVA WITH UNLIMITED PRIMARY SHORT CIRCUIT AMPS AND IMPEDENCE OF 5.75%Z. MAXIMUM AVAILABLE LET-THRU CURRENT AT SECONDARY TERMINALS OF TRANSFORMER = 24,155 AMPS. FAULT AT THE TERMINALS OF THE PHASE 1 MAIN DISCONNECT SWITCH WILL BE 16,055 AMPS. USING BUSSMANN FUSES IN THE MAIN DISCONNECT SWITCH WILL LIMIT FAULT AT PANELBOARD "MDP" TO LESS THAN 10,000 AMPS. FAULT AT THE NEAREST BRANCH CIRCUIT PANELBOARD WILL BE LESS THAN 10,000 AMPS.

Telcon CONSULTING ELECTRICAL ENGINEERS

1-11-99

NE SAN JUAN COUNTY FAMILY CENTER

DLR-LESCHER AND MAHONEY ARCHITECTS AND ENGINEERS

DLR Group

3298102-00
DATE 11 Jan. 1999

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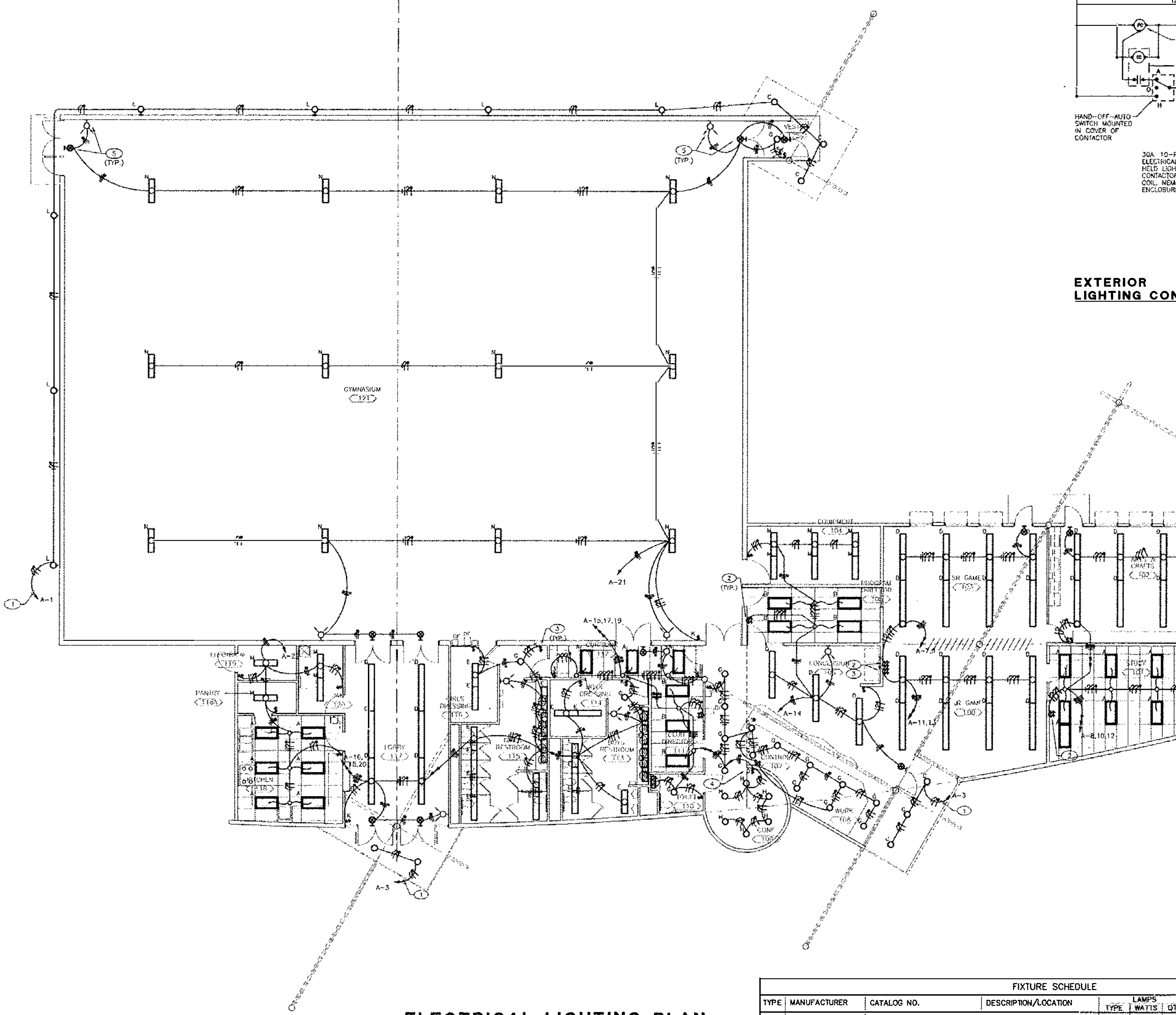
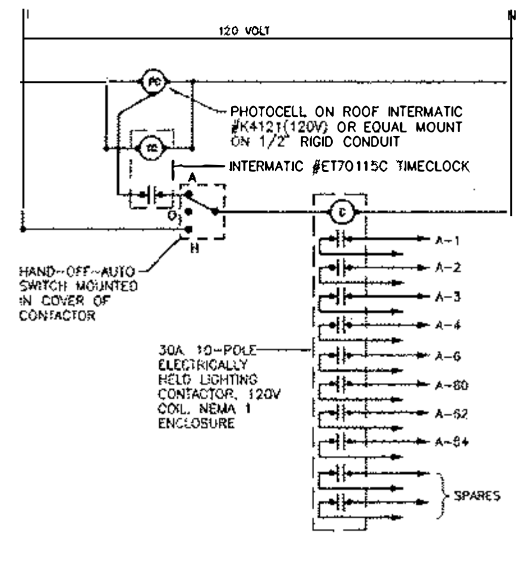


ELECTRICAL LIGHTING PLAN

SCALE: 1/8"=1'



EXTERIOR LIGHTING CONTROL DIAGRAM

KEYED NOTES

1. EXTEND 2#10 THHN/THWN AND 1#12 GROUND IN 3/4" CONDUIT THROUGH EXTERIOR LIGHTING CONTACTOR. SEE WIRING DIAGRAM ON THIS SHEET.
2. SWITCH INNER AND OUTER LAMPS SEPERATELY.
3. FURNISH AND INSTALL LEVITON TYPE KEYED SWITCH, #1221-IL (1 POLE) OR #1223-IL (3 POLE). NO EXCEPTIONS.
4. FURNISH AND INSTALL INCANDESCENT DIMMER, LUTRON NOVA T SERIES #NT1000.
5. PROVIDE ALL FIXTURES IN GYMNASIUM WITH WIRE GUARDS.

GENERAL NOTES

A. ALL SWITCHES SHALL BE UNIFORMLY GROUPED AND GANGED.

B. ALL FLOURESCENT FIXTURES TO BE PROVIDED WITH ELECTRONIC SOLID STATE BALLASTS AND SYLVANIA OCTRON T8 LAMPS. SIMILIAR AND EQUAL. REFER TO SPECIFICATIONS.

C. THE ARCHITECTURAL REFLECTED CEILING PLANS TAKE PRECEDENCE OVER THE LIGHT FIXTURE LAYOUT SHOWN ON THE ELECTRICAL DRAWINGS. COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS AND COMPLY.

D. PROVIDE A TOTAL OF 5 ADDITIONAL EXIT LIGHTS TO BE INSTALLED IN LOCATIONS DIRECTED IN FIELD BY THE FIRE MARSHALL DURING CONSTRUCTION. INCLUDE A MINIMUM OF 50' OF CONDUIT AND WIRE TO PROVIDE 120V CONNECTION TO NEAREST MAINTAINED BRANCH LIGHTING CIRCUIT.

E. FIXTURES SHALL BE COMPATIBLE WITH CEILING TYPE INSTALLED WITHIN; PROVIDE GRID TYPE FIXTURES IN LAY-IN CEILINGS AND FLANGE TYPE FIXTURES IN GYPSUM BOARD AND OTHER HARD CEILINGS.

F. PROVIDE A TOTAL OF 3 ADDITIONAL EMERGENCY LIGHTING FIXTURES TO BE INSTALLED IN LOCATIONS AS DIRECTED IN FIELD BY THE FIRE MARSHALL. INCLUDE A MININMUM 30' OF CONDUIT AND WIRE TO PROVIDE 120V CONNECTION TO NEAREST MAINTAINED BRANCH LIGHTING CIRCUIT.

G. COORDINATE MOUNTING HEIGHTS OF FIXTURES WITH ARCHITECTURAL ELEVATIONS. COMPLY AS REQUIRESD.

FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION/LOCATION	LAMPS TYPE	LAMPS WATTS	LAMPS QTY.	MOUNTING INSTRUCTIONS	REMARKS
A	DAYBRITE	2DG-332-FA-21-120V-1/21-EB	2' X 4' GRID LAY-IN	T8	32	3	T-BAR GRID	
B	DAYBRITE	2P4G-332-36-SL-120V-1/21-EB	2' X 4' GRID LAY-IN	T8	32	3	T-BAR GRID	
C	INFINITY	HPSPB9S012-100W-120V	EXTERIOR DOWNLIGHT	HPS	100	1	RECESSED	SEE NOTE II
D	LAM	OB1123-T8-PB-CB-8-CBA	LINEAR LIGHT	T8	32	6	CABLE -2' OFF CEILING	CBA (NOTE I)
E	DAYBRITE	1DF-232-FA-21-120V-EB	1' X 4' RECESSED	T8	32	2	RECESSED	
F	DAYBRITE	CB-217-W-120V	STAFF BATHROOM	T8	17	2	CENTER OVER MIRROR	
G	HALO	C9232-1E-9250-U	9" RECESSED CAN	TTT	32	2	RECESSED	
H	HALO	H7640T-4600C-TRM-G	CONFERENCE ROOM	PAR38	150	1	RECESSED	WHITE TRIM RING
L	DAYBRITE	WLA-150S-MT	EXTERIOR WALLPACK	HPS	150	1	WALL UP + 22' AFF	
M	DAYBRITE	1SM-232-FS-21-120V-EB	1' X 4' SURFACE MODULAR	T8	32	2	SURFACE	
N	DAYBRITE	IA-232-120V-EB	GYMNASIUM	T8	32	2	SURFACE CEILING	
R	GARDCO	CA22-1-3-250HPS-120-NP-POLY	PARKING LOT	HPS	250	1	POLE MOUNT	CBA (NOTE I)
	GARDCO	SRS-20-4.0-NP	20' PARKING LOT POLE					CBA (NOTE I)
S	GARDCO	DF7-C-HSP-70MH-120-NP-ESB	GROUND HORIZONTAL SPOT	MH	70	1	CONDUIT STUB	CBA (NOTE I)
T	GARDCO	LD600-R-42-100MH-120-NP	42" BOLLARD	MH	100	1	SURFACE	CBA (NOTE I)
U	GARDCO	LU-610-ML1-R-84-175MH-100MH-120-NP	UPLIGHT W/MIDSECTION DOWNLIGHT BOLLARD	MH	175	1	SURFACE	R-40 FLOOD
				MH	100	1		CBA (NOTE I)
EM	SURE-LITES	CU-1	EMERGENCY LIGHTING	--	--	--	WALL MOUNT +8'	
⊗	SURE LITES	CCX	--	LED	--	--	UNIVERSAL	

I. CBA - COLOUR BY ARCHITECT.
II. PROVIDE 1" SQUARE PARABOLIC ALUMINIM TYPE GRID LENS. WET LOCATION LISTING.

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10-01-98

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DATE 2 October 1998

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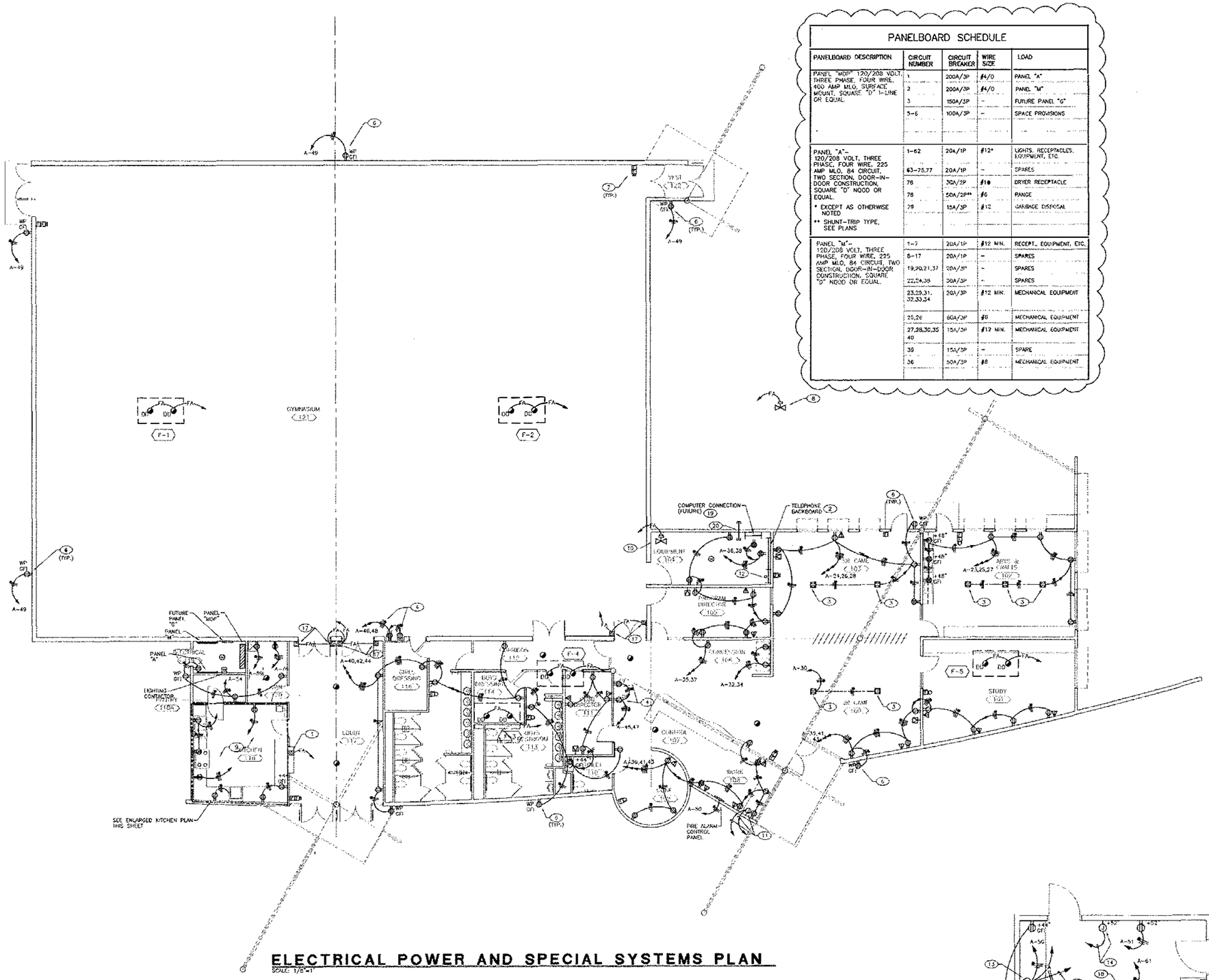
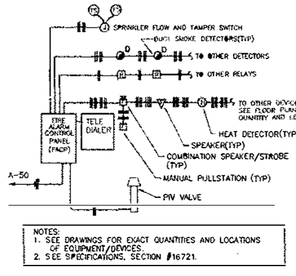
PANELBOARD SCHEDULE

PANELBOARD DESCRIPTION	CIRCUIT NUMBER	CIRCUIT BREAKER	WIRE SIZE	LOAD
PANEL "MDP" 120/208 VOLT, THREE PHASE, FOUR WIRE, 400 AMP MLO, SURFACE MOUNT, SQUARE "D" I-LINE OR EQUAL	1	200A/3P	#4/0	PANEL "A"
	2	200A/3P	#4/0	PANEL "M"
	3	150A/3P	–	FUTURE PANEL "G"
	5-6	100A/3P	–	SPACE PROVISIONS
PANEL "A"- 120/208 VOLT, THREE PHASE, FOUR WIRE, 225 AMP MLO, 84 CIRCUIT, TWO SECTION, DOOR-IN-DOOR CONSTRUCTION, SQUARE "D" NQOD OR EQUAL * EXCEPT AS OTHERWISE NOTED ** SHUNT-TRIP TYPE, SEE PLANS	1-62	20A/1P	#12*	LIGHTS, RECEPTACLES, EQUIPMENT, ETC.
	63-75,77	20A/1P	–	SPARES
	76	30A/2P	#10	DRYER RECEPTACLE
	78	50A/2P**	#6	RANGE
	79	15A/3P	#12	GARBAGE DISPOSAL
PANEL "M"- 120/208 VOLT, THREE PHASE, FOUR WIRE, 225 AMP MLO, 84 CIRCUIT, TWO SECTION, DOOR-IN-DOOR CONSTRUCTION, SQUARE "D" NQOD OR EQUAL.	1-7	20A/1P	#12 MIN.	RECEPT., EQUIPMENT, ETC.
	8-17	20A/1P	–	SPARES
	19,20,21,37	20A/3P	–	SPARES
	22,24,38	30A/3P	–	SPARES
	23,29,31, 33,34	20A/3P	#12 MIN.	MECHANICAL EQUIPMENT
	25,26	60A/3P	#6	MECHANICAL EQUIPMENT
	27,28,30,35 40	15A/3P	#12 MIN.	MECHANICAL EQUIPMENT
	39	15A/3P	–	SPARE
	36	50A/3P	#8	MECHANICAL EQUIPMENT



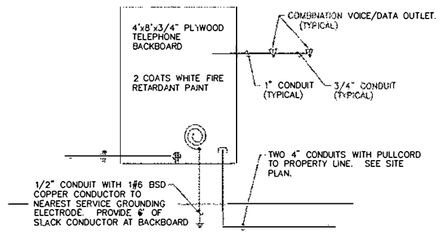
ELECTRICAL POWER AND SPECIAL SYSTEMS PLAN

SCALE: 1/8"=1'

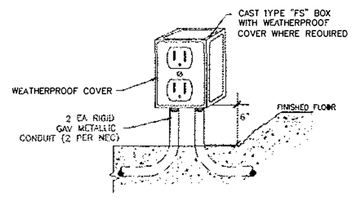


NOTES:
1. SEE DRAWINGS FOR EXACT QUANTITIES AND LOCATIONS OF EQUIPMENT/DEVICES.
2. SEE SPECIFICATIONS, SECTION #16721.

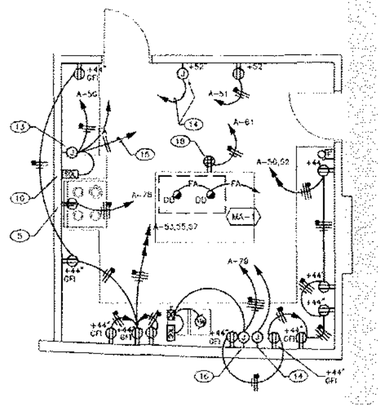
FIRE ALARM RISER DIAGRAM



TELEPHONE BACKBOARD DETAIL



OUTLET BOX STUB UP DETAIL



ENLARGED KITCHEN ELECTRICAL POWER PLAN

SCALE: 1/4"=1'

KEYED NOTES

1. PROVIDE FIRE ALARM CONNECTION TO SPRING ASSISTED ROLL UP DOOR. COORDINATE WITH MANUFACTURER AND COMPLY AS REQUIRED.
2. FURNISH AND INSTALL 8' X 4' X 3/4" PLYWOOD BACKBOARD FOR TELEPHONE TERMINATIONS. SEE TELEPHONE RISER FOR ADDITIONAL REQUIREMENTS.
3. PROVIDE FLUSH FLOOR BOX WITH DUPLEX RECEPTACLE. WALKER BOX #880CSI OR EQUAL. PROVIDE WITH BRASS COVERPLATE #895TSP OR APPROVED EQUAL. PROVIDE CARPET FLANGE.
4. MOUNT RECEPTACLE FOR ELECTRIC WATER COOLER BEHIND WATER COOLER ENCLOSURE. COORDINATE MOUNTING REQUIREMENTS WITH WATER COOLER AS FURNISHED IN FIELD.
5. RANGE RECEPTACLE, 50 AMP., 2 POLE, 4 WIRE, 250 VOLT. PROVIDE 50 AMP 4 WIRE RANGE CORD AND CONNECT TO NEW APPLIANCE. MOUNT RECEPTACLE PER MANUFACTURER'S RECOMMENDATIONS. EXTEND 3/4" CONDUIT WITH 3#8 THHN/THWN AND 1#10 GROUND TO CIRCUIT AS INDICATED.
6. ALL EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH A STEEL, LOCKABLE COVER. COORDINATE EXACT LOCATION TO AVOID DOWNSPOUTS.
7. PROVIDE ALL DEVICES IN GYMNASIUM WITH WIRE GUARDS.
8. PROVIDE FIRE ALARM CONNECTION TO PIV VALVE. SEE FIRE RISER DIAGRAM.
9. COORDINATE RECEPTACLE LOCATIONS WITH ARCHITECTURAL KITCHEN PLANS AND KITCHEN CONTRACTOR. SEE ENLARGED PLAN THIS SHEET.
10. PROVIDE FIRE ALARM CONNECTION TO PRESSURE SWITCH. SEE PLUMBING PLANS FOR REQUIREMENTS.
11. PROVIDE 4" SQUARE FLUSH MOUNTED JUNCTION BOX FOR FUTURE SOUND/PA SOUND SYSTEM. EXTEND 1 1/4" CONDUIT 24" BELOW SLAB TO LOCATION SHOWN IN EQUIPMENT ROOM 104 AND 1" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE IN CLUB DIRECTOR'S OFFICE ROOM 111. PROVIDE PULL CORDS. PROVIDE BLANK COVER PLATE FOR JUNCTION BOX. LABEL JUNCTION BOX ON EXTERIOR AND INTERIOR WITH AN ENGRAVED MICARTA NAMEPLATE "FUTURE SOUND/PA". LABEL CONDUIT STUBS AT EXTENSION.
12. 1 1/4" CONDUIT STUB UP FOR FUTURE SOUND/PA SOUND SYSTEM. PROVIDE 1'x2'x3/4" PLYWOOD BACKBOARD. PREPARE BACKBOARD SIMILAR TO TELEPHONE BACKBOARD.
13. JUNCTION BOX FOR CONNECTION TO HOOD FIRE PROTECTION SYSTEM CONTROL BOX. VERIFY EXACT LOCATION WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH IN. LOCATION INDICATED IS APPROXIMATE. ADJUST AS REQUIRED. MAKE CONNECTION TO BUILDING FIRE ALARM SYSTEM AS REQUIRED. EXTEND 1/2" CONDUIT WITH 2#12 THHN TO SHUNT TRIP CIRUIT BREAKER IN PANEL "A".
14. PROVIDE JUNCTION BOX WITH BLANK FACEPLATE. EXTEND 3/4" CONDUIT WITH PULLCORD TO PANEL "A". LABEL BOX INTERIOR "FUTURE KITCHEN EQUIPMENT"
15. EXTEND CONDUIT AND CONTROL WIRING TO SHUNT TRIP BREAKER FOR FOUR BURNER OVEN/RANGE.
16. JUNCTION BOX FOR WEATHERPROOF FLEXIBLE CONNECTION TO DISPOSER. PROVIDE CONNECTIONS TO CONTROL BOX, WATER SOLENOID VALVE, AND DISPOSER PER MANUFACTURER'S RECOMMENDATIONS. ALL CONNECTIONS SHALL BE WEATHERPROOF. EXTEND 3/4" CONDUIT WITH 4#12 THHN TO CIRCUIT AS INDICATED.

    ALTERNATE: COORDINATE DISPOSAL REQUIREMENTS IN FIELD WITH DISPOSAL AS PROVIDED. IF DISPOSAL IS PROVIDED 120V, 1PHASE, EXTEND 3/4" CONDUIT WITH 2#8 THHN/THWN AND 1#10 GROUND TO CIRCUIT A-77.
17. PROVIDE FIRE ALARM CONNECTION TO DOOR HOLD OPEN HARDWARE. COORDINATE WITH ARCHITECTURAL HARDWARE SCHEDULES AND MANUFACTURER AND COMPLY AS REQUIRED.
18. DOUBLE DUPLEX RECEPTACLE. INSTALL IN CAST TYPE OUTLET BOX ON 6" STUB UP PER DETAIL ON THIS SHEET. COORDINATE EXACT LOCATION WITH EQUIPMENT PLAN.
19. PROVIDE AND INSTALL 8'x3'x3/4" PLYWOOD BACKBOARD FOR FUTURE COMPUTER TERMINATIONS. PREPARE BACKBOARD SIMILAR TO TELEPHONE BACKBOARD.
20. EXTEND 4" CONDUIT STUB OUT FOR FUTURE IRRIGATION CONTROL 5' PAST BUILDING LINE. COORDINATE LOCATION AND REQUIREMENTS WITH PLUMBING STUB OUT FOR FUTURE IRRIGATION.

GENERAL NOTES

A. COORDINATE RECEPTACLE LOCATIONS AND HEIGHTS WITH CASEWORK, CABINETRY, AND ARCHITECTURAL ELEVATIONS. ARCHITECTURAL PLANS SUPERCEDE ELECTRICAL PLANS FOR LOCATIONS OF ELECTRICAL OUTLETS. HOWEVER, ALL OUTLETS SHOWN ON ELECTRICAL PLANS MUST BE PROVIDED.

B. ALL CIRCUITS FOR 120V DUPLEX RECEPTACLES MOUNTED NEXT TO VOICE/DATA OUTLETS OR VOICE DATA EQUIPMENT SHALL HAVE A MINIMUM #10 AWG THHN THWN NEUTRAL. NO EXCEPTIONS.

C. ALL PANELS SHALL HAVE COPPER BUSSING, BOLT-ON BREAKERS, AND DOOR IN DOOR CONSTRUCTION.

D. ALL PANELBOARDS SHALL HAVE TYPED CIRCUIT DIRECTORIES, PLACED BEHIND CLEAR PLASTIC PROTECTIVE COVERS. DESIGNATIONS ON DIRECTORIES SHALL BE MORE DESCRIPTIVE THAN AS SHOWN ON THE DRAWING PANEL SCHEDULES. "SPARES" AND "SPACES" SHALL BE INDICATED ON THE DIRECTORY WITH ERASABLE PENCIL.

E. ALL PANELBOARDS SHALL BE PROVIDED WITH NAMEPLATES SECURED TO EQUIPMENT WITH SELF-TAPPING SCREWS. NAMEPLATES SHALL BE LAMINATED PLASTIC WITH ENGRAVED 1/2" WHITE LETTERS ON BLACK BACKGROUND AND SHALL INDICATE PANEL DESIGNATION, VOLTAGE, PHASE, AMPACITY, AND LOCATION OF OVERCURRENT PROTECTIVE DEVICE FEEDING PANEL.

F. ALL PANELBOARDS SHALL HAVE FACTORY FURNISHED CIRCUIT BREAKER NUMBERING. PUNCHED TAPE OR MARKERS WILL NOT BE PERMITTED. BRANCH CIRCUIT BREAKER NUMBER ON PANELBOARDS SHALL MATCH NUMBERING AS SHOWN ON THE PLANS.

G. ALL BRANCH CIRCUIT CONDUCTORS EXTENDING FROM PANELBOARDS TO RESPECTIVE DEVICES SHALL BE COLOUR CODED AND SHALL BE INSTALLED CONTINUOUS IN EACH RUN AND SHALL HAVE A TAG DESIGNATING THE BRANCH CIRCUIT NUMBERS LOCATED AT ALL JUNCTION BOXES. ALL CONDUCTORS IN ALL PANELBOARDS SHALL BE NEATLY TRAINED, LACED, AND TIEWRAPPED WITHIN INTERIOR OF THE PANEL.

ENGINEER:
Telcon CONSULTING ELECTRICAL ENGINEERS
STATE OF NEW MEXICO 6297 REGISTERED PROFESSIONAL ENGINEER
1-11-99

NE SAN JUAN COUNTY FAMILY CENTER
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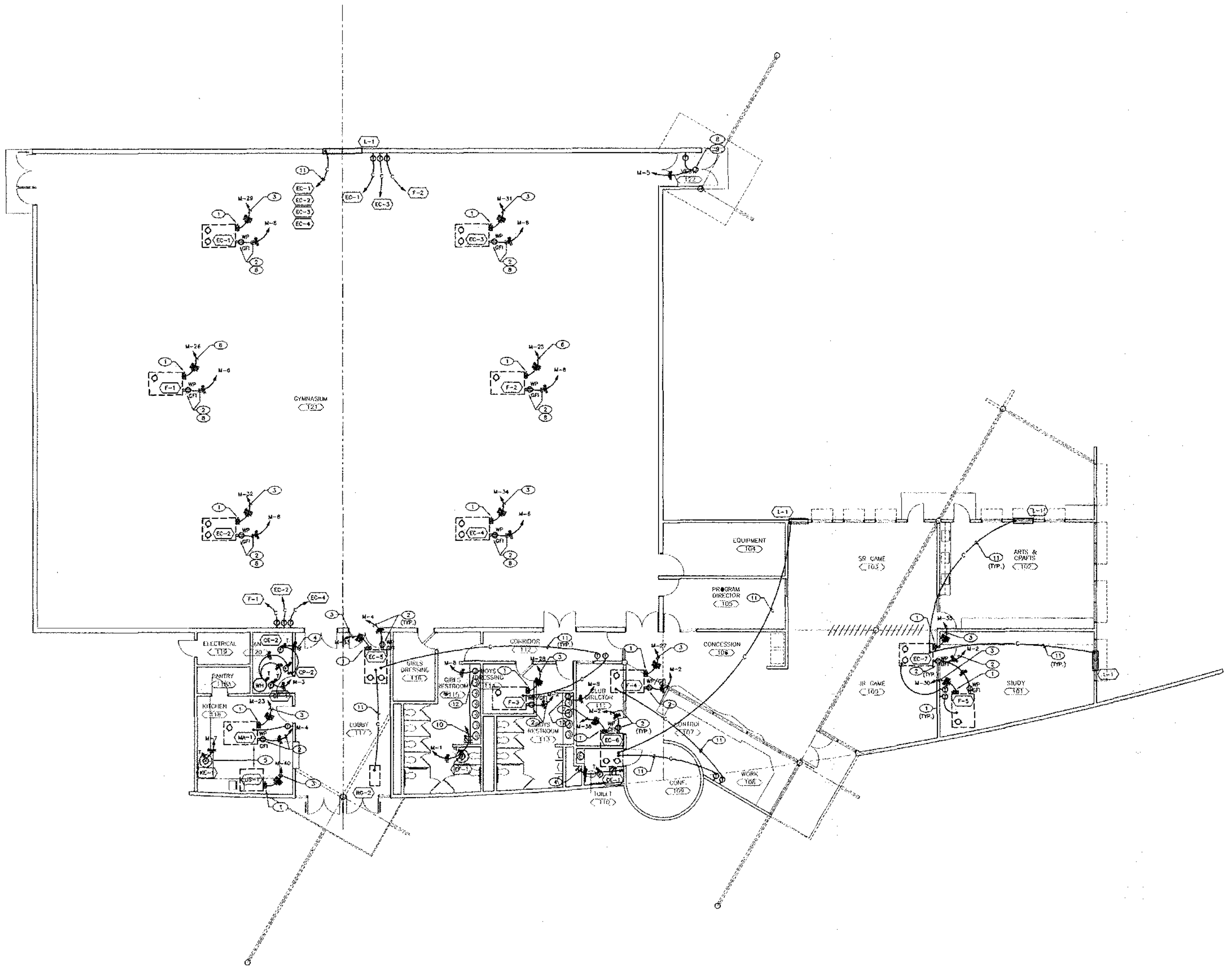

MECHANICAL POWER PLAN
SCALE 1/8"=1'

KEYED NOTES

1. DISCONNECT AND 2 SPEED STARTER FURNISHED WITH MECHANICAL UNIT. PROVIDE SINGLE POINT CONNECTION. COORDINATE WITH MECHANICAL AND COMPLY.
2. EXTEND 2#10 THHN/THWN COPPER AND 1#12 GROUND TO RECEPTACLES LOCATED ON ROOFTOP EQUIPMENT.
3. EXTEND 4#10 THHN/THWN AND 1#12 GROUND TO CIRCUIT AS INDICATED.
4. EXTEND TO NEAREST LIGHTING CIRCUIT.
5. COORDINATE WITH MECHANICAL CONTRACTOR AND DRAWINGS TO PROVIDE INTERLOCKS AS INDICATED IN MECHANICAL CONTROL WIRING DIAGRAMS. PROVIDE AND INSTALL WIRE AND INTERLOCKS AS REQUIRED.
6. EXTEND 4#2 THHN/THWN AND 1#8 GROUND IN 2" CONDUIT TO CIRCUIT AS INDICATED.
7. EXTEND 4#6 THHN/THWN AND 1#10 GROUND IN 1" CONDUIT TO CIRCUIT AS INDICATED.
8. THIS UNIT AND ALL ELECTRICAL WORK ASSOCIATED WITH IT ARE PART OF ADDITIVE ALTERNATE #3.
9. PROVIDE CONNECTION FOR RADIANT HEAT PANEL. COORDINATE CONTROL REQUIREMENTS WITH MECHANICAL AND COMPLY.
10. EXTEND CONTROLS FOR RESTROOM EXHAUSTING FAN AS INDICATED ON MECHANICAL DRAWINGS.
11. EXTEND CONTROLS FOR INTERLOCK LOUVER WITH EVAPORATIVE COOLER. SEE MECHANICAL DRAWINGS.
12. PROVIDE FLUSH MOUNTED JUNCTION BOX AND 120V CONNECTION TO CONTROL TRANSFORMER FOR OPERATION OF AUTOMATIC FAUCET CONTROL. COORDINATE LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL DRAWINGS FOR EXACT EQUIPMENT LOCATION AND CONTROL DIAGRAMS FOR WIRING TO BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

B. ELECTRICAL CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR ELECTRICAL/MECHANICAL COORDINATION TABLES. ALL EQUIPMENT, DEVICES, CONDUIT, AND WIRING SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR AS INDICATED.

C. ALL ROOF PENETRATIONS SHALL BE MADE ACCORDING TO ARCHITECTURAL PLANS AND SPECIFICATIONS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL ROOF PENETRATION COORDINATION FOR ELECTRICAL WORK.

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