



PERMIT AND CONSTRUCTION DOCUMENTS

FORT BEND COUNTY

EMS MEDIC 1 FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471



DESIGN-BUILD CONTRACTOR
BASS CONSTRUCTION CO., INC.

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax
tim@bassconco.com

COUNTY JUDGE
ROBERT HEBERT

COUNTY COMMISSIONERS
RICHARD MORRISON - Precinct 1
GRADY PRESTAGE - Precinct 2
ANDY MEYERS - Precinct 3
JAMES PATTERSON - Precinct 4

PROJECT NO. 0909

3 NOVEMBER 2009

PERMIT / CONSTRUCTION SET



ARCHITECTS
HBL ARCHITECTS

3701 Kirby Drive Suite 1166
Houston, Texas 77098
713 621 7581
713 623 8258 fax
dbb@hbl-architects.com

MEP ENGINEERS
HENDERSON ENGINEERS, INC
10370 Richmond Ave., Suite 370
Houston, Texas 77042
713 783 7707
713 783 7797 fax
tom.simmons@hei-eng.com

SPECIFICATIONS
JORDAN CONSULTANTS, LLC
50 Briar Hollow Lane, Suite 235W
Houston, Texas 77027
713 366 0320
713 589 5493 fax
jpjordan@jordanconsultants.com

STRUCTURAL ENGINEERS
SCA CONSULTING ENGINEERS

12511 Emily Court
Sugar Land, Texas 77478
713 779 7252
713 779 1173 fax
mattshepard@scahouston.com

CIVIL ENGINEERS
KELLY R. KALUZA & ASSOCIATES
3014 Avenue I
Rosenberg, Texas 77471
281 341 0808
281 341 6333 fax
rstolleis@kellykaluza.com

ELEVATION REFERENCE & TEMPORARY BENCHMARKS:

ELEVATION REFERENCE: U.S.G. MONUMENT K-1319
DISK ON CONIC HEADQUARTER LOCATED ON THE NORTH EDGE
OF EAST END OF A 3'x1' BOX UNDER HIGHWAY 36,
800' SOUTH OF THE CENTERLINE OF MEYER ROAD.
ELEVATION = 91.69 (NAD 83)

- T.B.M. 1 - SET "1" ON TOP OF A 1/2" DIAMETER CONCRETE TRAFFIC
SIGNAL BASE ON THE EAST SIDE OF STATE HIGHWAY No. 36
AT THE SOUTH SIDE OF BAND ROAD.
ELEVATION = 93.07
- T.B.M. 2 - SET "1" ON TOP OF CONCRETE CURB AT END OF PARKING
LOT MEDIAN, 100' NORTHWEST OF CENTERLINE OF BAND ROAD
AT 30' NORTHWEST OF THE NORTHEAST FACE OF THE R.L.
"BUD" O'SHEA'S FORT BEND COUNTY COMMUNITY CENTER BUILDING.
ELEVATION = 93.47
- T.B.M. 3 - SET "1" ON TOP OF CONCRETE CURB AT END OF PARKING
LOT MEDIAN, 300' NORTHWEST OF CENTERLINE OF BAND ROAD
AT 30' NORTHWEST OF THE NORTHEAST FACE OF THE R.L.
"BUD" O'SHEA'S FORT BEND COUNTY COMMUNITY CENTER BUILDING.
ELEVATION = 95.00

LEGEND:

- 100-93.93
10-95.28
10-94.60
10-93.35
10-92.25
P.E.P.
P.C.P.
P.P.
- TOP OF CONCRETE
- TOP OF CURB
- TOP OF BUTTER
- FLOWLINE
- TOP BANK
- POLYETHYLENE PIPE
- REINFORCED CONCRETE PIPE
- POWER POLE
- CONCRETE
- BUILDING
- ASPHALT

S.A. STONE SURVEY
ABSTRACT No. 392

CITY OF
ROSENBERG

FORT BEND COUNTY
CALL 81.200 ACRES
(VOL. 518, PG. 14; D.R.)

ARENA LANE

STATE HIGHWAY 36 - (100' R.O.W.)

G.M. STONE SURVEY
ABSTRACT No. 312

SCALE: 1" = 30'

Plot showing partial topographic survey of a portion of the remainder of an original call 81.200
Acres Tract of Land (Volume 518, Page 14; Deed Records of Fort Bend County, Texas) being in
the S.A. Stone Survey, Abstract No. 392, City of Rosenberg, Fort Bend County, Texas.

I, C. TEN OSHEN, a Registered Professional Land Surveyor of the State of Texas, do hereby state
that this survey was made on the ground, that this plot represents the facts found at the time
of the survey and that this professional opinion conforms to the current Texas Society of
Professional Surveyors Standards for a Category 6, Condition 1 Survey.

As per the Department of Housing and Urban Development Federal Insurance Administration Flood
Hazard Boundary Map for Fort Bend County, Texas, and Incorporated Areas (Map No.
48157C02204, Map Revised January 3, 1997), it appears that this tract lies within Zone X -
Areas determined to be outside 500-year floodplain.

March 25, 2008

Plot prepared by:
KELLY R. KALUZA AND ASSOCIATES, INC.
Consulting Engineers and Surveyors
2016 Avenue I
Rosenberg, Texas 77471
(281) 341-0808

Notes:

- 1) Survey prepared without benefit of current title report.
- 2) The "100-year Flood Hazard Area" is subject to change as detailed studies become available
and/or as water level or channel conditions change. The flood plain information shown on this plot
is to be used to determine flood insurance rates and is not intended to identify specific flooding
conditions.

B.B.B. & C. RAILROAD
COMPANY SURVEY
SECTION No. 9
ABSTRACT No. 131

BAND ROAD - (WIDTH VARIES)

Kelly R. Kaluza
& Associates, Inc.
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING OFFICE: 2016 AVENUE I
ROSENBERG, TEXAS 77471
PH: (281) 341-0808 FAX: (281) 341-6533



FORT BEND COUNTY
MEDIC I FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

BASS CONSTRUCTION
COMPANY

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

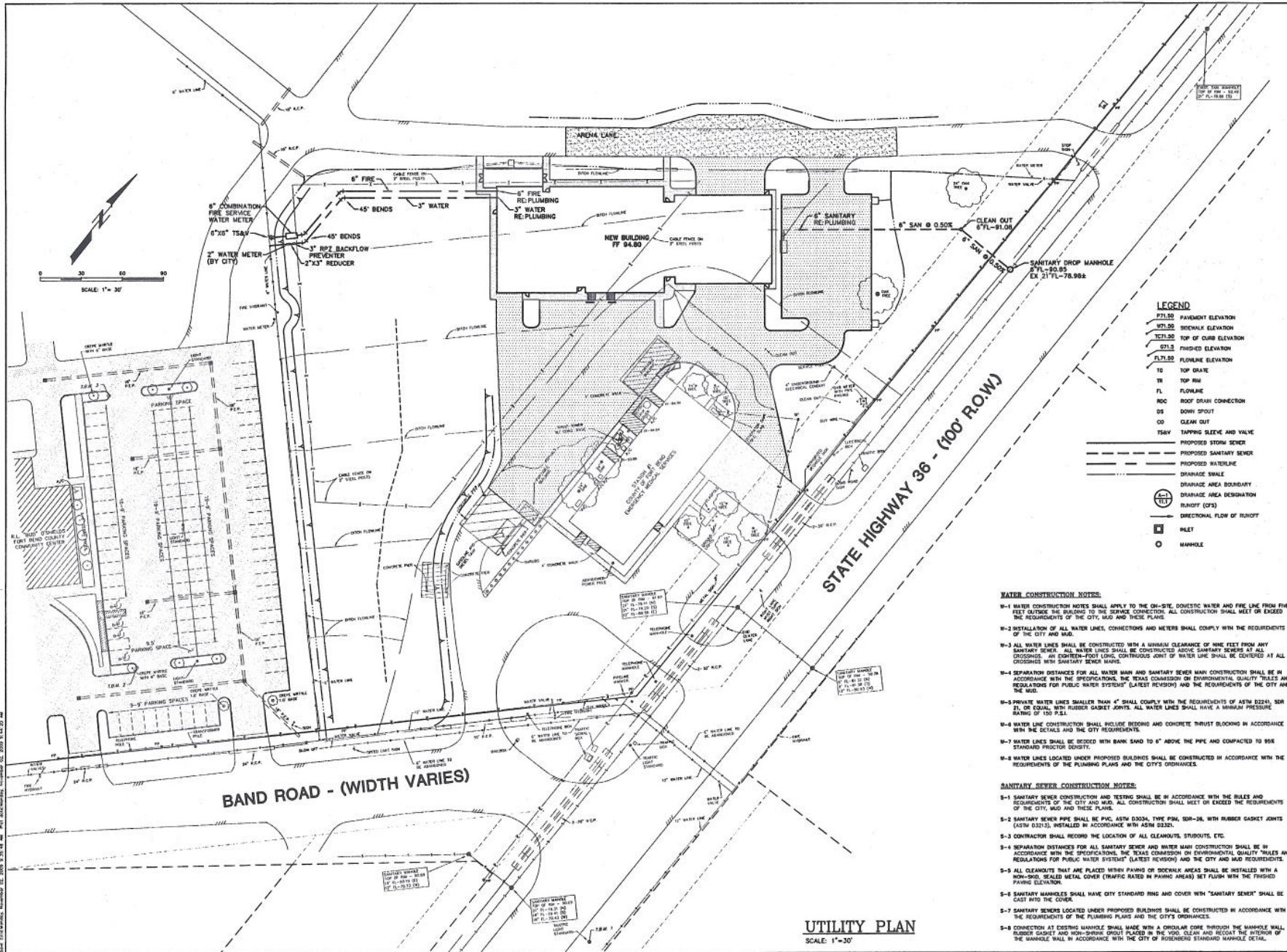
REVISION: 11-03-08
FOR POSTING AND
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REVISION:

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CAD DWG. FILE: EWS SITE DWG
SHEET TITLE: TOPOGRAPHIC
SURVEY
DRAWING NO.

C-0



Kelly R. Kaluza & Associates, Inc.
 CONSULTING ENGINEERS & SURVEYORS
 ENGINEERING FIRM NO. P-1339
 ROSENBERG, TEXAS 77471
 PH. 281.341.0008 FAX. 281.341.0333



FORT BEND COUNTY
MEDIC I FACILITY

4332 STATE HIGHWAY 36
 ROSENBERG, TEXAS 77471

BASS CONSTRUCTION COMPANY

1124 Denson Street
 Rosenberg, Texas 77471
 281.342.2022
 281.341.5071 fax

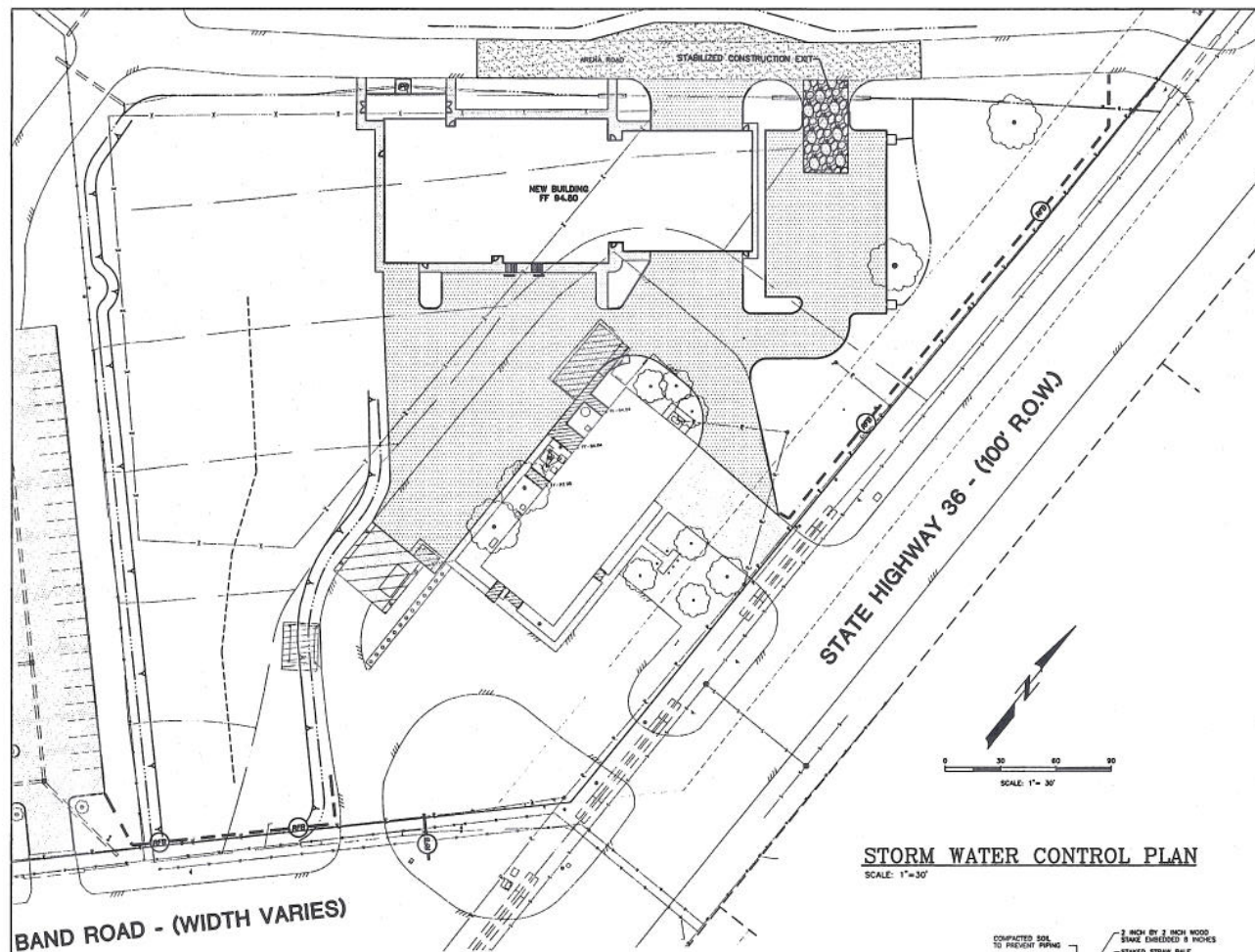


The Seal appearing on this document was authorized by William H. Stuller, P.E., Texas Reg. No. 80520 on November 5, 2008.

DESIGNED BY: 11-03-08 FOR DESIGN AND CONSTRUCTION
 REVISIONS:

DRAWN BY: GR
 CHECKED BY: RVS
 PROJECT NO.: 0000
 COPY/PROJ: 11/03/2008
 CAD DWG. FILE: EMS SWE.DWG
 SHEET TITLE: **UTILITY PLAN**

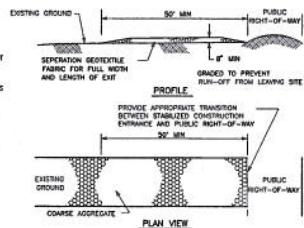
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BAND ROAD - (WIDTH VARIES)

CONSTRUCTION NOTES:

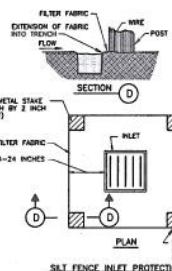
1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 30 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL PORTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE REQUIREMENTS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE INCREASED OR DECREASED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
6. STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.
7. CONTRACTOR SHALL COORDINATE LOCATION WITH AGENCIES.



STABILIZED CONSTRUCTION EXIT

SCALE: N.T.S.

1

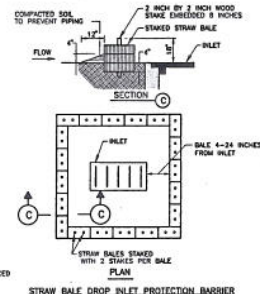


INLET PROTECTION BARRIER

INLET PROTECTION BARRIER

SCALE: N.T.S.

2



STRAIN BALE DROP INLET PROTECTION BARRIER

STORM WATER CONTROL PLAN

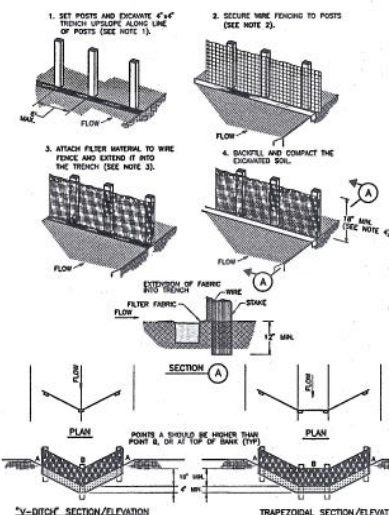
SCALE: 1"=30'

LEGEND

- DIRECTIONAL FLOW OF RUNOFF
- INLET PROTECTION BARRIER
- REINFORCED FILTER FABRIC FENCE

STORM WATER CONTROL PLAN NOTES:

- SW-1 STORM WATER FROM ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES SHALL BE DISCHARGED THROUGH AN APPROVED CONTROL DEVICE.
- SW-2 CONTRACTOR SHALL PREPARE, FILE AND EXECUTE THE STORM WATER PREVENTION PLAN IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- SW-3 ALL DETAILS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. REFERENCE STORM WATER MANAGEMENT HANDBOOK, HARRIS COUNTY A.L.C.
- SW-4 CONTRACTOR SHALL KEEP ADJOINING STREETS CLEAN OF MUD AND DEBRIS DEPOSITED DUE TO ON-SITE CONSTRUCTION ACTIVITIES.
- SW-5 ALL STOCKPILED MATERIALS SHALL BE CONTAINED WITHIN AN APPROVED DISCHARGE CONTROL DEVICE ON SITE. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.



NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX. OF 8 FEET APART AND ENCASED A MIN. OF 12 INCHES.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT TOP AND INTERSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 24 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND JOINED.

REINFORCED FILTER FABRIC BARRIER

SCALE: N.T.S.

3

Kelly R. Kaluza, Inc.
& Associates, Inc.
ENGINEERING & SURVEYORS
CONSULTING FIRM No. P-1339
ROSENBERG, TEXAS 77471
PH: 281.341.0000 FAX: 281.341.6333



FORT BEND COUNTY
MEDIC I FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

BASS CONSTRUCTION
COMPANY

1124 Damon Street
Rosenberg, Texas 77471
281.342.2022
281.341.5071 fax



The Seal appearing on this document was authorized by Robert W. Stollers, P.E., Texas Reg. No. 60520 on November 2, 2008.

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CHECKED BY: 11-03-09 FOR PERMIT AND CONSTRUCTION

PROJECT NO.: 11-03-09 FOR PERMIT AND CONSTRUCTION

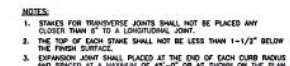
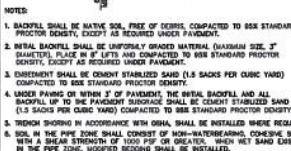
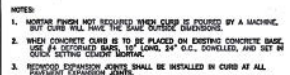
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SHEET TITLE: 11-03-09 FOR PERMIT AND CONSTRUCTION

STORM WATER CONTROL PLAN

DRAWING NO. 11-03-09 FOR PERMIT AND CONSTRUCTION

C-3



89-1 CONSTRUCTION IN STORM SEWER AND DRAINAGE EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY REQUIREMENTS. ALL CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY, AND THESE PLANS.

ST-2 STORM SEWER SHALL BE PVC, ASTM D3034, TYPE PSM, SDR-26, WITH RUBBER GASKET JOINTS (ASTM D3213) AND INSTALLED IN ACCORDANCE WITH ASTM D3239 OR HIGH DENSITY POLYETHYLENE, CORRUGATED PIPE MEETING THE REQUIREMENTS OF ASTM D2004, TYPE S, WITH BUTT-JOINT JOINTS, WHEN APPROVED BY THE OWNER AND THE CITY. IN ALL CASES, CHANGES IN PIPE SIZE OR TYPE SHALL OCCUR AT AN APPROVED STRUCTURE.

ST-3 STORM SEWER BEDDING SHALL BE CEMENT STABILIZED SAND IN ACCORDANCE WITH THE DETAIL

PAYING CONSTRUCTION NOTES

P-1 REFERENCE: GEOTECHNICAL INVESTIGATION FOR PROPOSED COMMERCIAL BUILDING, READING ROAD AND FM1645, ROSENBERG, TEXAS, REPORT NO. G07-270, PREPARED BY ASSOCIATED TESTING LABORATORY, INC., SEPTEMBER 10, 2007. ALL CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY AND THESE PLANS.

F-2 PAVING AREAS (TO TWO FEET BEYOND THE PROPOSED EDGE OF PAVING) SHALL BE STRIPPED OF TOPSOIL, ORGANIC MATERIALS AND ANY UNSUITABLE MATERIAL. TREE ROOTS SHALL BE REMOVED TO BELOW THE PROPOSED SUBGRADE DEPTH. SUBGRADE SHALL BE PROOF-ROLLED IN ACCORDANCE WITH TxDOT SPECIFICATION ITEM 218.

P-3 PAVING SUBGRADE SHALL BE STABILIZED TO A DEPTH OF 8" WITH A MINIMUM OF 7% HYDRATED LIME IN ACCORDANCE WITH THE REQUIREMENTS OF DOT SPECIFICATION ITEMS 200. (THE ACTUAL LIME CONTENT SHALL BE DETERMINED BY FIELD TEST WHEN THE SUBGRADE HAS BEEN ROUGH GRADED.) STABILIZED PAVING SUBGRADE SHALL EXTEND ONE (1) FEET BEYOND THE EDGE OF PAVING. ALL SUBGRADE SHALL BE COMPACTED TO SPECIFIED PROFILES AND FINISHES. (SEE DOT SPECIFICATION ITEM 200 FOR LIME STABILIZATION REQUIREMENTS.) (SEE SPECIFICATION ITEM 200 FOR LIME STABILIZATION REQUIREMENTS.)

WITHIN TWO (2) PERCENT OF OPTIMUM. PAVING SHALL BE PLACED WITHIN 14 DAYS ON COMPLETION OF THE SUBGRADE OR SHALL BE SEALED WITH AN EMULSION BASED SEALER. HEAVY TRAFFIC SHALL NOT BE ALLOWED TO DRIVE DIRECTLY ON THE PAVING SUBGRADE.

6. SACKS OF CEMENT PER CUBIC YARD OF CONCRETE. CONCRETE SHALL HAVE A SLUMP OF 6 INCHES $\pm$ 1 INCH. COARSE AGGREGATE SHALL HAVE A MAXIMUM DIAMETER OF ONE AND ONE-HALF (1-1/2) INCHES.

P-6 ALL PAVING SHALL BE CONSTRUCTED ON A STRAIGHT LINE GRADE BETWEEN ELEVATIONS SHOWN ON THE PLANS. CONTRACTOR SHALL CONFIRM THE FIELD THAT ALL PAVED AREAS ARE CONSTRUCTED TO DRAIN WITHOUT HOLDING WATER. ON-SITE DRAINS SHALL HAVE A MINIMUM CROSS SLOPE

P-7 ASPHALT PAVING (DRIVEWAY TURN LANE, EXCEPT AS OTHERWISE REQUIRED BY T800): 2" THICK (MINIMUM) HOT MIX ASPHALTIC CONCRETE SURFACE COURSE, TYPE "B", FINE-GRADED SURFACE COURSE, T800 ITEM 340, COMPACTED WITHIN AN AIR VOID RANGE OF 3 TO 6 PERCENT

(TxDOT STANDARD). BASE: 10" THICK, CRUSHED Limestone BASE MEETING THE REQUIREMENTS OF TxDOT ITEM 247, TYPE A, GRADE 1 AND SHALL BE COMPACTED TO A MINIMUM DENSITY OF NINETY-FIVE (95) PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D6908) AT A MOISTURE CONTENT WITHIN 2 PERCENT OF OPTIMUM. PROVIDE SIX (6) INCH THICK LIME STABILIZED SUBGRADE WITH 6" LIME, EIGHT (8) PERCENT HYDRATED LIME, COMPACTED TO A MINIMUM DENSITY OF NINETY-EIGHT (98) PERCENT, STANDARD PROCTOR DENSITY.

**Kelly R. Kaluza
& Associates, Inc.**
CONSULTING ENGINEERS & SURVEYORS
ENGINEERING FIRM No. F-1339
3014 AVENUE I
ROSENBERG, TEXAS 77471
PH 281.341.0808 FAX 281.341.6333



FORT BEND COUNTY
MEDIC 1 FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

**BASS CONSTRUCTION
COMPANY**

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax



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CAD DWG, FILE: DWS SITE.DWG

SHEET TITLE
**CONSTRUCTION
DETAILS**

DRAWING NO.

C-5



HBL
ARCHITECTS

3701 Kirby, Suite 1166
Houston, Texas 77098
(713) 621-7581
(713) 623-8258 (fax)
www.hbl-architects.com



CONSULTING
ENGINEERS



**FORT BEND COUNTY
MEDIC I FACILITY**

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

**BASS CONSTRUCTION
COMPANY**

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

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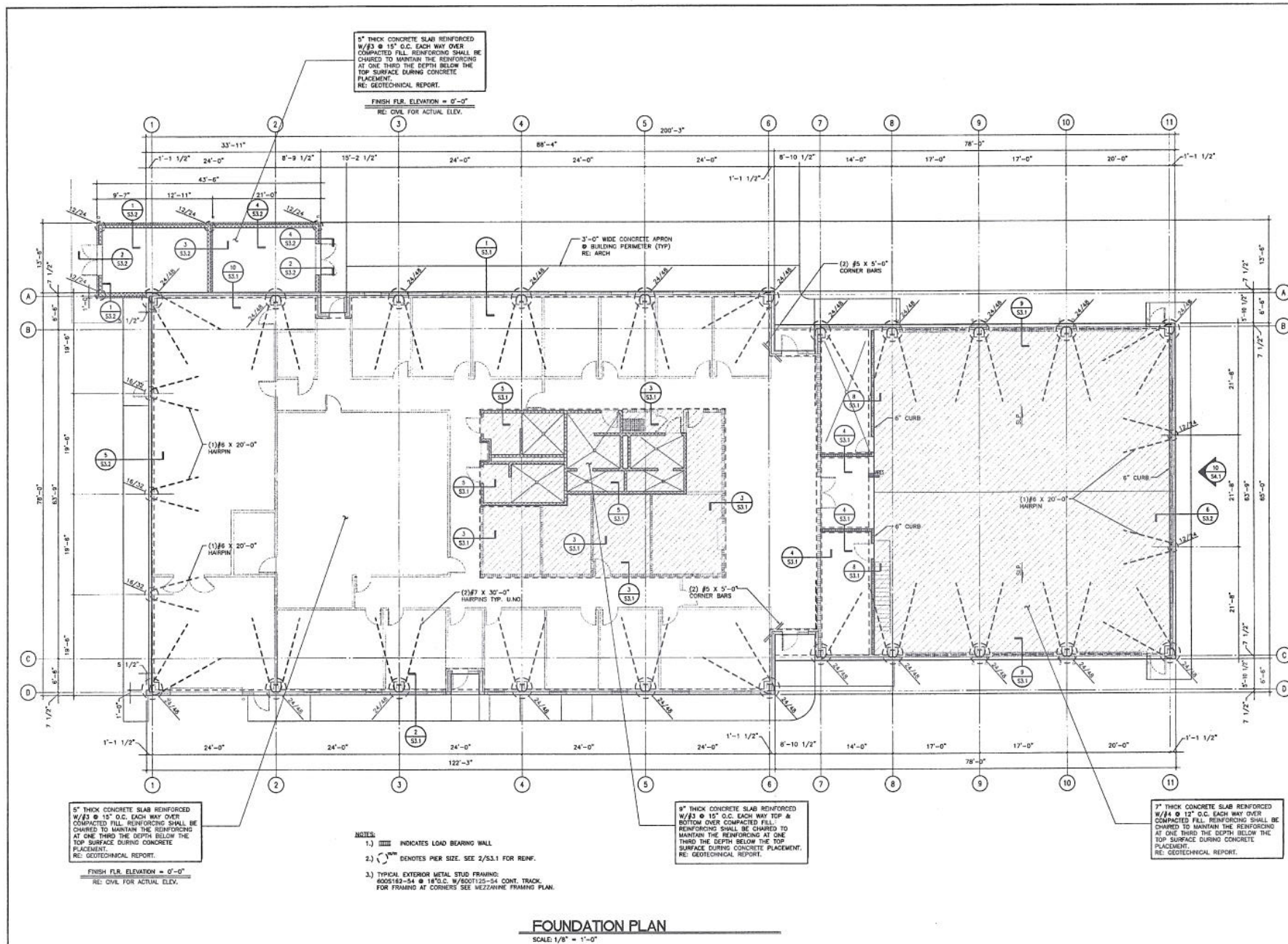
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SHEET TITLE
FOUNDATION PLAN

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S11

FORT BEND COUNTY MEDIC I FACILITY
SCA Project No. 29125





HBL
ARCHITECTS

3701 Kirby, Suite 1166
Houston, Texas 77098
(713) 621-7581
(713) 623-4258 (fax)
www.hbl-architects.com



WILLIAM F. BURNETT
Professional Engineer
No. 11201
State of Texas
www.williamfburnett.com



**FORT BEND COUNTY
MEDIC I FACILITY**

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

**BASS CONSTRUCTION
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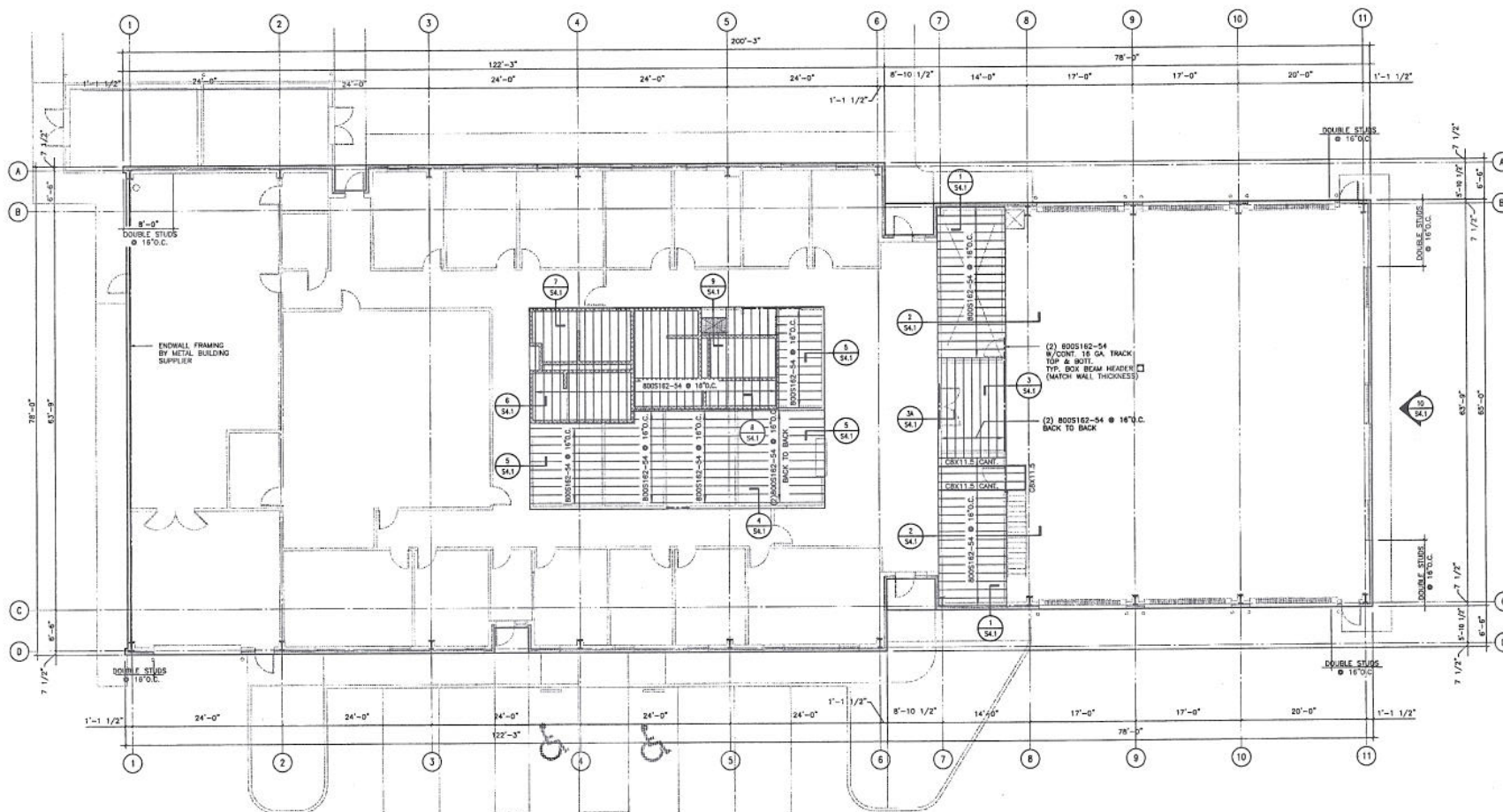
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Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

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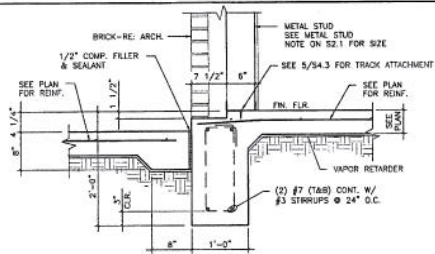
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MEZZANINE FLOOR
FRAMING PLAN
DRAWING NO.

S2.1



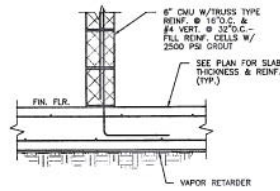
MEZZANINE FRAMING PLAN

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



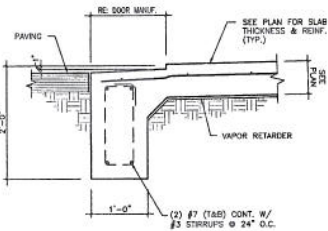
GRADE BEAM at MECHANICAL YARD

10



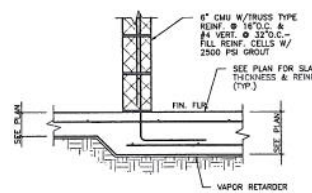
SECTION at THICKENED SLAB

6



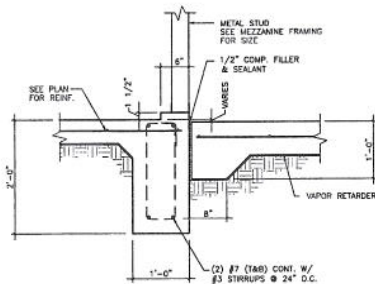
GRADE BEAM at O.H. DOOR

9



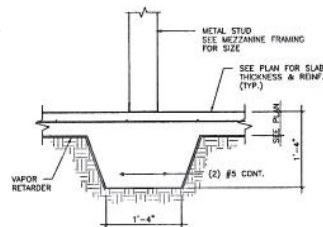
SECTION at THICKENED SLAB

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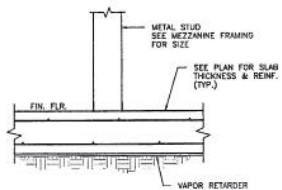
INTERIOR GRADE BEAM SECTION

8



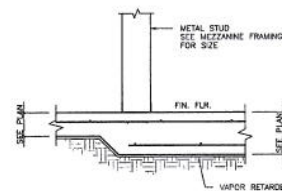
INTERIOR GRADE BEAM SECTION

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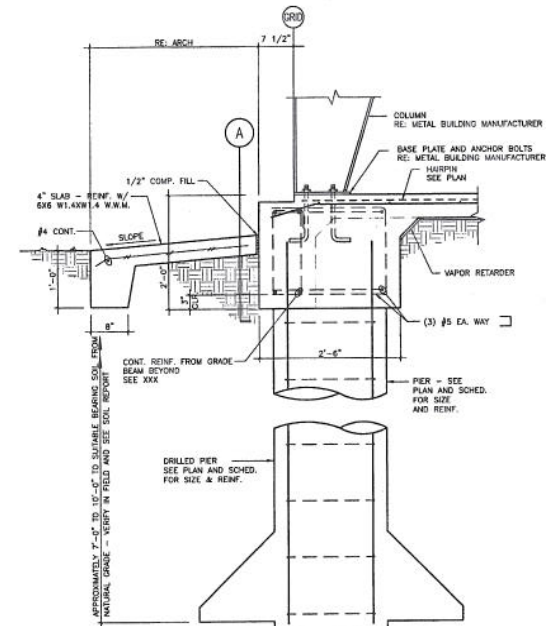
SECTION at THICKENED SLAB

6



SECTION at THICKENED SLAB

3

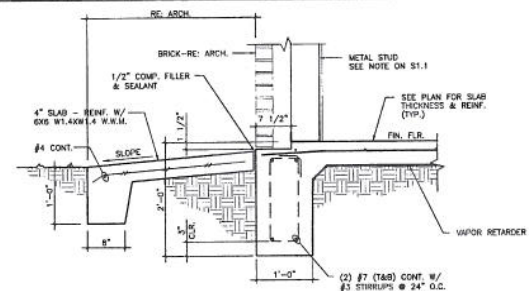


NOTE:
SLAB REIN. NOT SHOWN FOR CLARITY.

PIER SCHEDULE		
SHAFT	VERT. REIN.	TIES
12"	(4) - #5	#3 @ 12" O.C.
16"	(4) - #6	#3 @ 12" O.C.
24"	(4) - #7	#3 @ 12" O.C.

EXTERIOR SECTION at COLUMN

2



EXTERIOR SECTION at GRADE BEAM

1



HBL
ARCHITECTS

3701 Kirby, Suite 1166
Houston, Texas 77098
(713) 621-7581
(713) 623-8258 (fax)
www.hbl-architects.com



WILLIAM F. BURDETT
CONSULTING ENGINEERS
1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax
www.burdett-engineers.com



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HBL
ARCHITECTS

3701 Kirby, Suite 1166
Houston, Texas 77098
(713) 621-7581
(713) 623-8258 (fax)
www.hbl-architects.com



CONSULTING ENGINEERS
WILLIAM F. BURNETT
Professional Engineer, State of Texas, No. 101457, Exp. 09/2018
Houston, Texas 77098
(713) 621-7581
(713) 623-8258 (fax)
www.hbl-architects.com

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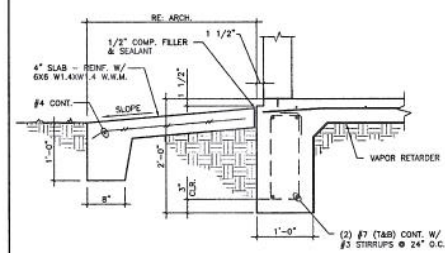
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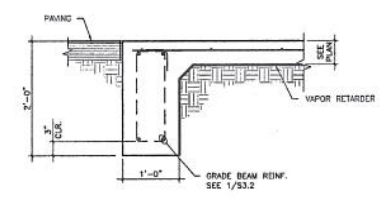
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FOUNDATION DETAILS
DRAWING NO.

S3.2

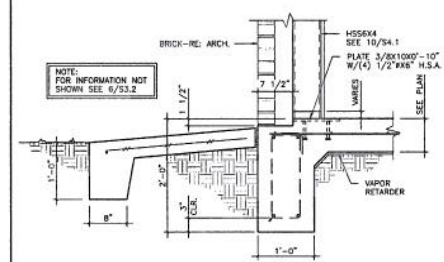
FORT BEND COUNTY MEDIC I FACILITY
SCA Project No. 27125



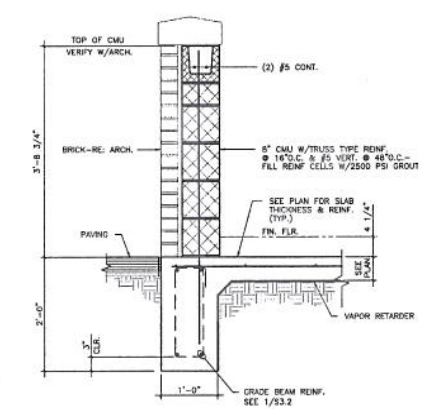
SECTION at GRADE BEAM (5)



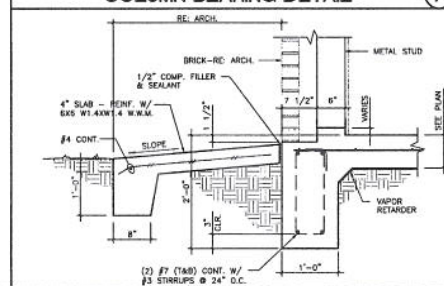
SECTION at GRADE BEAM (2)



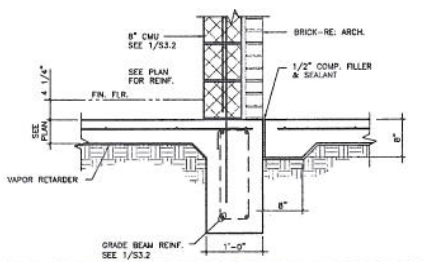
COLUMN BEARING DETAIL (7)



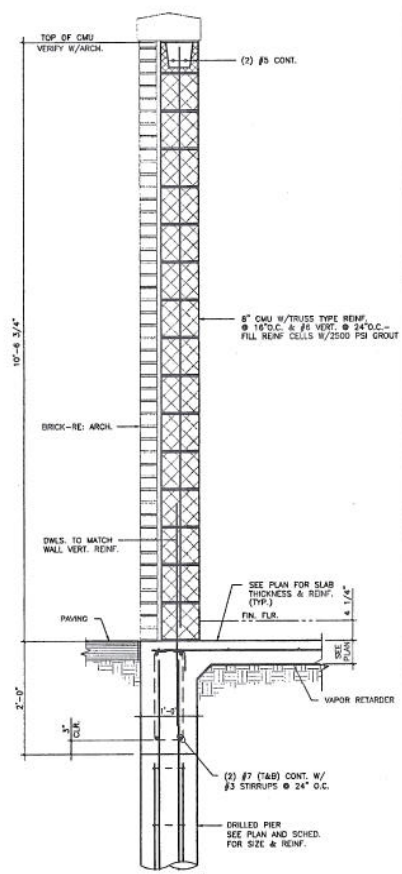
WALL SECTION at MECHANICAL YARD (4)



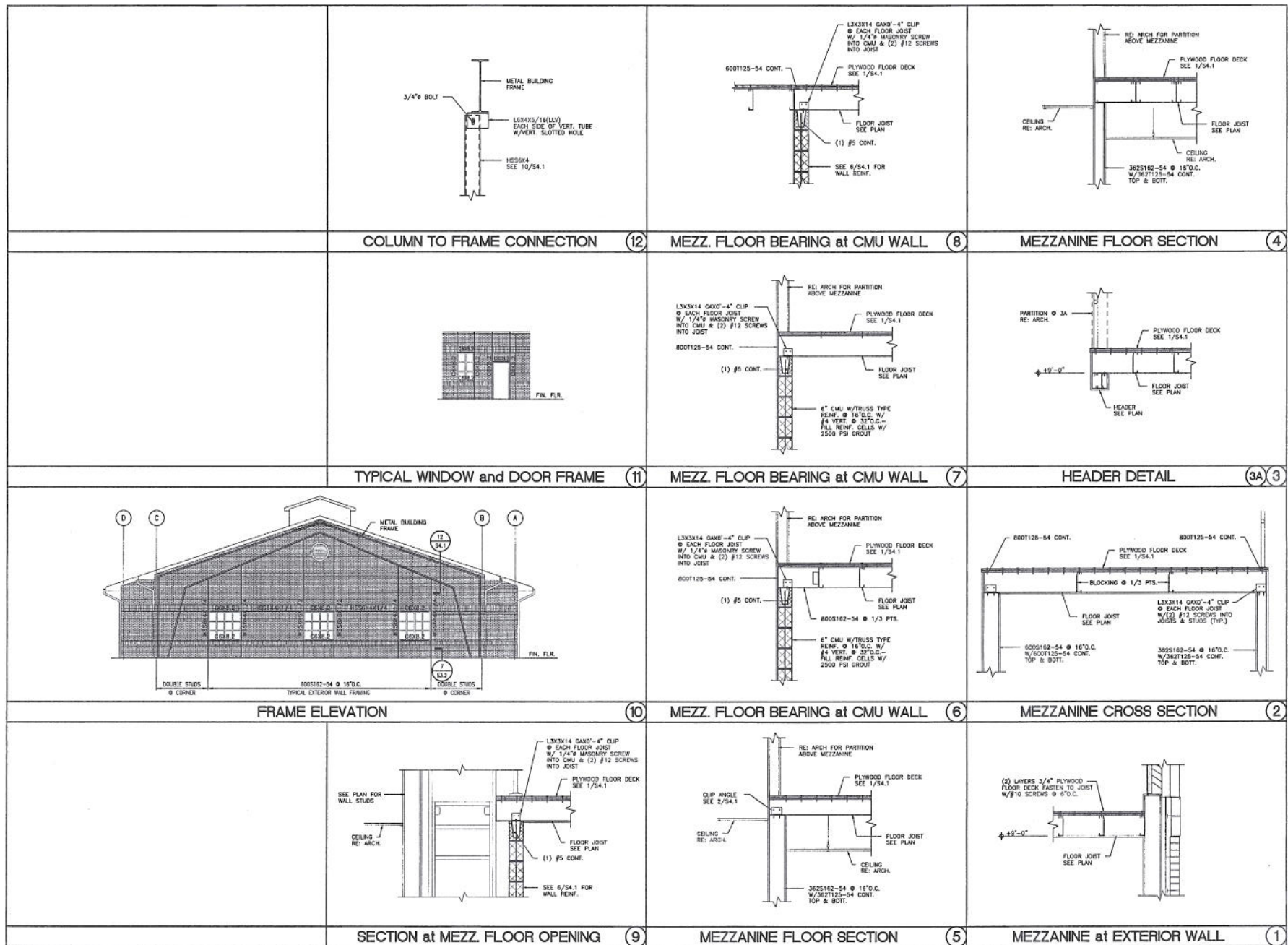
SECTION at GRADE BEAM (6)



SECTION at GRADE BEAM (3)



WALL SECTION at MECHANICAL YARD (1)



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Houston, Texas 77058
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(713) 623-8258 (fax)
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**FORT BEND COUNTY
MEDIC I FACILITY**

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

**BASS CONSTRUCTION
COMPANY**

1124 Damon Street
Rosenberg, Texas 77471
281.342.2022
281.341.5071 fax

ISSUED 11-03-09
FOR PERMIT AND CONSTRUCTION

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DRAWING NO.

S4.1

FORT BEND COUNTY MEDIC I FACILITY
S4.1 Page No. 2/12

GENERAL NOTES:

- THE FOLLOWING SPECIFICATIONS ARE AN OUTLINE OF MINIMUM MATERIAL REQUIREMENTS AND THEIR APPLICATION. MANUFACTURER SPECIFICATION AND LOCAL CODE REQUIREMENTS, WHEN IN CONFLICT WITH MINIMUM SPECIFICATIONS, SHALL CONTROL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND SUBMIT ALL SHOP DRAWINGS AND REPORT ALL DOCUMENT DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR ERECTION.
- AT CONSTRUCTION ISSUE, THESE DRAWINGS REPRESENT STRUCTURAL COMPONENTS IN THEIR FINAL AND FINISHED STATE. CONSTRUCTION PROCEDURES, BRACING, METHODS, SAFETY PRECAUTIONS OR MECHANICAL REQUIREMENTS USED TO ERECT THEM ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR SUBCONTRACTOR DURING THE WORK.

DESIGN CRITERIA	
CODE	IBC 2006
WIND LOAD	
BASIC WIND SPEED (3-SECOND GUST)	120 MPH
WIND IMPORTANCE FACTOR	$I_w = 1.0$
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.18

DESIGN LOADS	
MEZZANINE FLOOR	125
ROOF	20

CONCRETE NOTES AND SPECIFICATIONS:

- ALL CONCRETE WORK SHALL CONFORM TO THE "A.C.I. BUILDING CODE", AD 318 AND AD 301, LATEST EDITION.
- DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH AD 318-99, "ACI DETAILING MANUAL - 1999".
- UNLESS OTHERWISE NOTED, ALL REINFORCING BARS #4 AND LARGER SHALL CONFORM TO ASTM A-615 GRADE 60 (60,000 PSI YIELD) AND ALL #3 AND #3 BARS SHALL CONFORM TO GRADE 40 (40,000 PSI YIELD). REINFORCING SHALL BE FREE FROM OIL, LINT AND OTHER MATERIALS THAT WOULD REDUCE THE BOND WITH THE CONCRETE.
- WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A-185. WELDED WIRE REINFORCEMENT SHALL BE CURVED TO MATCH THE REINFORCING AT ONE-TWENTY THE DEPTH BELOW THE TOP SURFACE DURING CONCRETE PLACEMENT. SUPPORTS SHALL BE AT 7'-0" O.C. EACH WAY. LAP WELDED WIRE MESH ONE FULL MESH AT SIDE AND END LAPS.
- UNLESS OTHERWISE NOTED, CONCRETE PROTECTION FOR REINFORCING SHALL BE AS SPECIFIED IN THE "A.C.I. BUILDING CODE", (AD 318 LATEST EDITION).
- CONCRETE STRENGTH AND PROTECTION FOR REINFORCEMENT OF POURED-IN-PLACE MEMBERS; SEE SECTION 7.7 AD 318 LATEST EDITION.

A. STRUCTURAL FLANGE	MINIMUM COVER (INCHES)	CONCRETE STRENGTH (PSI)	SLAB RATIO
FOOTINGS	3" ALL SURFACES	AT 28 DAYS	0.82
GRADE BEAMS	3" BOTTOM, 2" SIDES, 1 1/2" TOP	3000	0.82
SLAB ON GRADE	1 1/2" TOP & BOTTOM	3000	0.82

PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I. MINIMUM OF 5 BAGS OF CEMENT PER CUBIC YARD.

- FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PLACEMENT AND VIBRATION MIX WITHOUT THE ADDITION OF WATER AT THE JOIST. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
- CONCRETE SLAB TESTS SHALL BE MADE BEFORE AND AFTER THE ADDITION OF ADJUTANTS AND MAY BE TAKEN AT THE BACK OF THE TRACK. CONCRETE FOR THE PREPARATION OF TEST CYLINDERS SHALL BE TAKEN FROM THE HOSE END FOR CONCRETE PLACED BY PUMP.

REINFORCING STEEL SPICE NOTES:

- ALL REINFORCING STEEL SHALL BE SPICED AS NOTED BELOW AND AS REQUIRED IN THE A.C.I. BUILDING CODE (LATEST EDITION).
 - LA NOTED IN THE DETAILS AND TABLES BELOW IS THE STRAIGHT BAR DEVELOPMENT LENGTH PER AD-318.
 - CLASS B LAP SPICE TABLE SHALL BE USED FOR ALL LAP SPICES AND BAR DEVELOPMENT UNLESS NOTED OTHERWISE.
 - ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED WITH A CLASS B LAP SPICE AND AROUND CORNERS OR INTERSECTIONS WITH A STANDARD 90 DEGREE HOOK.
 - SPICE TOP BARS AT CENTER OF SPAN LAP SPICE BOTTOM BARS AT SUPPORTS WITH CLASS B LAP SPICE.
 - SPICE ALL VERTICAL BARS IN COLLARS AND VERTICAL AND HORIZONTAL BARS IN SHEAR WALLS WITH A CLASS B LAP SPICE UNLESS NOTED OTHERWISE.
 - LAP SPICES FOR #14 AND LARGER BARS SHALL BE MADE WITH MECHANICAL COUPLERS TO DEVELOP 125% OF THE BARS CAPACITY.
 - INCREASE DEVELOPMENT LENGTH SHOWN IN TABLES BELOW BY 1.25 FOR 75 KSI STEEL.
 - INCREASE DEVELOPMENT LENGTH SHOWN IN TABLES BELOW BY 1.50 FOR EPOXY COATED BARS.
 - INCREASE DEVELOPMENT LENGTH SHOWN IN TABLES BELOW BY 1.30 IF BAR IS TO BE USED AS A TOP BAR IN A BEAM OR SLAB WITH 12" OF FRESH CONCRETE BELOW THE BAR.
 - THE FOLLOWING TABLES ASSUME ONE OF THE BELOW CONDITIONS, PER A.C.I. AND MET:
 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPICED IS NOT LESS THAN 4B, CLEAR COVER NOT LESS THAN 4B AND STRUTS OR TIES THROUGHOUT 14 NOT LESS THAN 24B AND CLEAR COVER NOT LESS THAN 4B.
 - CLEAR SPACING OF BARS BEING DEVELOPED OR SPICED NOT LESS THAN 24B AND CLEAR COVER NOT LESS THAN 4B.

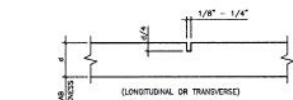
CLASS B SPICE (SEE REBAR SCHEDULE)											
A.C.I. REINFORCING DEVELOPMENT LENGTH SCHEDULE (L/D)											
BAR SIZE	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
#3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"
#5	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"
#6	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
#7	28"	28"	28"	28"	28"	28"	28"	28"	28"	28"	28"
#8	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"
#9	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"
#10	40"	40"	40"	40"	40"	40"	40"	40"	40"	40"	40"
#11	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"
#12	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"
#13	52"	52"	52"	52"	52"	52"	52"	52"	52"	52"	52"
#14	56"	56"	56"	56"	56"	56"	56"	56"	56"	56"	56"
#15	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"

- ALL HOOKED REINFORCING STEEL SHALL BE AS NOTED BELOW AND AS REQUIRED IN THE A.C.I. BUILDING CODE (LATEST EDITION).
 - END NOTED IN THE SCHEDULES BELOW IS THE BASIC REINFORCING DEVELOPMENT LENGTH FOR STANDARD A.C.I. HOOKS, MEASURED FROM THE CRITICAL SECTION TO THE END OF THE HOOK.
 - LAH = 1.5PLAIN FOR 75 KSI STEEL.
 - LAH = 1.5PLAIN FOR EPOXY COATED REINFORCING BARS.
 - LAH = LAH UNLESS OTHERWISE NOTED IN B OR C. C ARE NOTED AND SHALL NOT BE LESS THAN 8" OR 8 BAR DIAMETERS.

A.C.I. STANDARD HOOK REINFORCING DEVELOPMENT LENGTH SCHEDULE (L/D)											
BAR SIZE	2000	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
#3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"	16"
#5	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"	20"
#6	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"	24"
#7	28"	28"	28"	28"	28"	28"	28"	28"	28"	28"	28"
#8	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"	32"
#9	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"	36"
#10	40"	40"	40"	40"	40"	40"	40"	40"	40"	40"	40"
#11	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"
#12	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"	48"
#13	52"	52"	52"	52"	52"	52"	52"	52"	52"	52"	52"
#14	56"	56"	56"	56"	56"	56"	56"	56"	56"	56"	56"
#15	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"	60"



- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ANY OTHER ADDITIONAL SLEEVES, ANCHORS, VENT OPENINGS, ETC., NOT SHOWN ON STRUCTURAL PLANS THAT MUST BE REQUIRED.
- PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TRAVELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRAY FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF ACT 301.1 AND 304.
- UNLESS NOTED OTHERWISE ON PLAN, CONTROL JOINTS TO BE LOCATED AT APPROXIMATELY 400 SQ. FT. GRIDS. ACTUAL LOCATION TO BE DETERMINED BY OWNER OR CONTRACTOR. CONTROL JOINT TO BE 2P STRIP OR EQUAL.



TYP. CONTROL JOINT DETAIL (SLAB ON GRADE)

- PROVIDE 7 DAY CURING OF SLAB IMMEDIATELY AFTER FINISHING USING ONE OF THE FOLLOWING METHODS:
 - CONTINUOUSLY WATERED BURLAP
 - WATERPROOF MEMBRANE
 - SPRAYED-ON LIQUID MEMBRANE
- PROTECT THE CONCRETE SURFACE BETWEEN FINISHING OPERATIONS ON HOT, DRY DAYS OR ANY OTHER TIME THAT PLASTIC SHRINKAGE CRACKS COULD DEVELOP BY USING WET BURLAP, PLASTIC MEMBRANE OR FOGGING. PROTECT CONCRETE SLAB AT ALL TIMES FROM RAIN, WIND OR OTHER ADVERSE EFFECTS.

- AN INDEPENDENT CERTIFIED TESTING LABORATORY SHALL VERIFY AND PROVIDE REPORTS CERTIFYING THE FOLLOWING:
 - CONCRETE PLANT BATCH TICKETS FOR EACH TRUCK VERIFY THAT THE CONCRETE MATCHES THE APPROVED DESIGN MIX.
 - CONCRETE SLAB IS IN ACCORDANCE WITH APPROVED DESIGN MIX.
 - CONCRETE PLACEMENT OPERATIONS ARE IN ACCORDANCE WITH AD SPECIFICATIONS.
 - CONTROL JOINTS ARE INSTALLED WITHIN THE AD TIME ALLOWANCE.
 - PROPER CURING METHODS ARE BEING UTILIZED.
- NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ADDITIONAL NO CONFORMANCE WITH THE OUTLINE SPECIFICATIONS SHALL BE ACCEPTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 31 HOURS.

WATER CEMENT RATIO (W/C)

CONCRETE	NOVARIATION	NOVARIATION	NOVARIATION
2000	0.50 MAX	0.50 MAX	0.50 MAX
2500	0.48 MAX	0.48 MAX	0.48 MAX
3000	0.46 MAX	0.46 MAX	0.46 MAX
3500	0.44 MAX	0.44 MAX	0.44 MAX
4000	0.42 MAX	0.42 MAX	0.42 MAX
4500	0.40 MAX	0.40 MAX	0.40 MAX
5000	0.38 MAX	0.38 MAX	0.38 MAX
5500	0.36 MAX	0.36 MAX	0.36 MAX
6000	0.34 MAX	0.34 MAX	0.34 MAX
6500	0.32 MAX	0.32 MAX	0.32 MAX
7000	0.30 MAX	0.30 MAX	0.30 MAX

FOUNDATION NOTES:

- FOOTINGS SHALL BEAR ON SOIL SUITABLE FOR SUPPORTING 4500 P.S.F. NET ALLOWABLE BEARING. IF QUESTIONABLE SOIL IS ENCOUNTERED, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- THESE FOUNDATIONS ARE SUITABLE FOR THE SITE AND HAVE BEEN DESIGNED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRACTICES AND SOIL REPORT #08-1085 PREPARED BY PARADIGM CONSULTANTS, INC.
- EXCAVATION FOR FOOTINGS SHALL BE NEAT.
- FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.
- ALL REINFORCING STEEL MARKED "CONTINUOUS" SHALL BE LAPPED PER "REINFORCING STEEL SPICE NOTES".
- LAP TOP BARS AT CENTER OF SPAN LAP BOTTOM BARS AT SUPPORTS.
- THERE SHALL BE NO PLUMBING LINES RUNNING PARALLEL TO, WITHIN OR UNDER ANY FOUNDATION BEAM.
- PLACE A 10 MIL UNIFORM COATING OF POLYETHYLENE UNDER ALL CONCRETE SLABS.
- FOUNDATION PLATES OR SLIP PLATES SHALL BE BOLTED OR ANCHORED TO THE FOUNDATION WITH NOT LESS THAN 1/2" Ø STEEL BOLTS OR APPROVED ANCHORS. BOLTS SHALL BE EXTERIOR AT LEAST 7 INCHES INTO CONCRETE AND SPACED NOT MORE THAN 4 FEET APART. THERE SHALL BE A MINIMUM OF TWO BOLTS OR ANCHOR STRAPS PER PIECE WITH ONE BOLT OR ANCHOR STRAP LOCATED NOT MORE THAN 12 INCHES OR LESS THAN 4 INCHES FROM EACH END OF EACH PIECE. A PROPERLY SIZED NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE.

COLD ROLLED STEEL SPECIFICATIONS (SSMA):

- ALL STUDS AND/OR JOISTS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING SHOWN ON THE DRAWINGS.
- ALL STRUCTURAL MEMBERS AND CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISC) SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS, LATEST EDITION.
- ALL STUDS, RUNNERS, JOISTS AND TRUSSES SHALL BE FORMED FROM GALVANIZED STEEL CORRESPONDING TO THE REQUIREMENTS OF AISC 88 WITH A MINIMUM YIELD STRENGTH OF 50 KSI FOR 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997,

1. ALL STRUCTURAL STEEL SHALL BE DETAILLED, FABRICATED AND ERECTED IN ACCORDANCE WITH "THE SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", AISC 360 AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AISC 303.
2. ALL STRUCTURAL STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST OSHA SAFETY STANDARDS FOR STEEL ERECTION. STRUCTURAL DOCUMENTS INDICATE TYPICAL CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL OSHA REQUIREMENTS ARE MET.
3. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS OTHERWISE NOTED ON PROJECT DOCUMENTS.

- STRUCTURAL STEEL CONNECTION NOTES:

- A. ASTM A8 HOT ROLLED SHAPES WITH A FLANGE THICKNESS EXCEEDING 2 INCHES AND BUILT UP HEAVY SHAPES WITH FLATES EXCEEDING 2 INCHES IN THICKNESS: 20 FT-LB @ 70 DEG. F
- B. REGARDLESS OF THICKNESS, ALL TRUSSES, LATERAL FORCE RESISTING MEMBERS: 20 FT-LB @ 70 DEG. F
- C. WELD METAL 20 FT-LB @ MINUS 20 DEG. F AND 40 FT-LB @ 70 DEG. F
- D. WELD METAL EXPOSED TO TEMPERATURES IN SERVICE BELOW 50 DEG. F: 25 FT-LB @ 40 DEG. F
14. REMOVE WELD BACK UP BARS AND GRIND SMOOTH AFTER WELD IS COMPLETED, UNDO
15. HOLDING EXPOSED TO LOW TEMPERATURES IN SERVICE SHALL CONFORM TO AWS D1.5

1. ALL MASONRY MATERIALS AND CONSTRUCTION SHALL COMPLY WITH THE RECOMMENDATIONS OF THE STATE OF ARIZONA (SMA) AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND MINIMUM REQUIREMENTS ESTABLISHED BY LOCAL BUILDING CODE.
2. ALL CONCRETE MASONRY UNITS (CMU) SHALL BE ASTM-C-90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI UNLESS OTHERWISE SPECIFIED BY THE APPLICABLE BUILDING CODE.
3. CONTROL JOINTS SHALL BE SPACED PER PLANS AND SPECIFICATIONS OR AT A MAXIMUM SPACING OF 40'-0" CENTERS, UNLESS SPECIALLY APPROVED OTHERWISE BY ENGINEER.
4. MORTAR: EXCEPT AS OTHERWISE SET FORTH HEREIN ALL MORTARS AND THE MATERIALS THEREIN SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND METHOD OF MASONRY UNITS, ASTM C270.

A) MORTAR USED TO BOND UNIT MASONRY SHALL BE OF TYPE M, S, OR N, AND SHALL COMPLY WITH THE PROPERTY SPECIFICATIONS SET FORTH BELOW:

MORTAR STRENGTH PROPERTY SPECIFICATIONS	
TYPE	MINIMUM AVERAGE STRENGTH (PSI)
M	2500
S	1800
N	750

- B) THE TYPE OF MORTAR BASED ON CONSIDERATION OF THE LOCATION OF THE UNIT MASONRY CONSTRUCTION SHALL BE AS FOLLOWS:

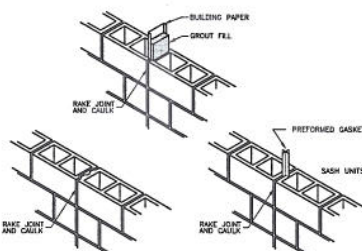
USE OF LOCATION	TYPE OF MORTAR
BELOW GRADE FOUNDATION AND WALLS	M
RETAINING WALLS	M
FIVE RESISTIVE WALLS RATED 3 HOURS OR MORE	M OR S
EXTERIOR WALLS AND LOAD BEARING WALLS	M OR S
PARTITIONS	M OR N
SOLID MASONRY UNITS	ONE CLASSIFICATION LESS THAN THE ABOVE
MORTAR OR GROUT UNDER CONCENTRATED LOADS	
FENCES	M OR S

5. ALL REINFORCED MASONRY WALLS WITH OPENINGS UP TO 4'-0" HIGH SHALL HAVE ONE BAR (MINIMUM) AT EACH SIDE OF OPENINGS. FOR OPENINGS LARGER THAN 4'-0" HIGH, PROVIDE 3 BARS AT EACH SIDE OF OPENINGS. FILL ALL REINFORCED CELLS WITH CONCRETE TO MATCH THE EXISTING MASONRY. REINFORCING STEEL (UNLESS NOTED OTHERWISE) AND EXTEND TO TOP OF WALL.
6. SPECIAL REPAIRING IS REQUIRED FOR GROUT WALLS.
7. PROVIDE TRUSS TYPE REINFORCING AT 18" O.C. FOR ALL GROUT WALLS UNLESS NOTED OTHERWISE.
8. GROUT SOLID ALL REINFORCED CELLS AND BOND BEAMS WITH 5000 PSI GROUT.
9. ALL REINFORCED MASONRY WALL CORNERS AND INTERSECTIONS SHALL HAVE ONE VERTICAL BAR (MINIMUM). FILL REINFORCED CELLS WITH 5000 PSI GROUT. REINFORCING SHALL MATCH THE EXISTING REINFORCING STEEL (UNLESS NOTED OTHERWISE) AND EXTEND TO TOP OF WALL.
10. PROVIDE ONE VERTICAL BAR (MIN) FIRST CELL EACH SIDE OF CORNER JOINTS. FILL CELL WITH 5000 PSI GROUT.
11. PREPARE FOR MASONRY WALLS DURING CONSTRUCTION.

REINFORCING BAR SIZE	MIN LAP SPICE LENGTH
#5	31"
#6	67"
#7	79"
#8	113"
#9	146"
#10	MECHANICAL CONNECTOR
#11	

WHEN ADJACENT SPLICES IN GROUTED MASONRY ARE SEPARATED BY 3 INCHES OR LESS, THE REQUIRED LAP LENGTH MUST BE INCREASED 30%.

WHEN EPOXY-COATED BARS ARE USED, THE REQUIRED LAP SPLICED LENGTH SHALL BE INCREASED 50%



STEEL LINTEL SCHEDULE FOR MASONRY OPENINGS

MAXIMUM SPAN	SIZE
3'-0"	4 3/4 x 3 1/2 x 1/4
4'-0"	4 5/8 x 3 1/2 x 1/4 (LLV)
5'-0"	4 5/8 x 3 1/2 x 5/16 (LLV)
8'-0"	4 5/8 x 3 1/2 x 3/8 (LLV)
9'-0"	4 6/8 x 4 x 3/8 (LLV)

PROVIDE ROLLED STEEL ANGLE UNTELS @ ALL ARCHES.
ALL UNTELS TO EXTEND 8" (MIN) ONTO MASONRY.

ALL STAIRS AND HANDRAILS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER
BASED ON THE FOLLOWING DESIGN CRITERIA AND CALCULATIONS SHALL BE SEALED:

1. STAIR STRINGERS, TREADS AND RISERS SHALL BE DESIGNED TO SUPPORT 100 PSF LIVE LOAD.
2. INDIVIDUAL STAIR TREADS SHALL BE DESIGNED TO SUPPORT A 300 POUND CONCENTRATED LOAD PLACED IN A POSITION THAT WOULD CAUSE MAXIMUM STRESS.
3. THE TOP RAIL OF HANDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 PLF APPLIED HORIZONTALLY AT RIGHT ANGLES, OR A 200 POUND CONCENTRATED LOAD APPLIED IN ANY DIRECTION. INTERMEDIATE RAILS, PANEL FILLERS AND THEIR CONNECTIONS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 PSF APPLIED HORIZONTALLY AT RIGHT ANGLES OVER THE ENTIRE TRIBUTARY AREA, INCLUDING OPENINGS AND SPACES BETWEEN RAILS.



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FORT BEND COUNTY

MEDIC 1 FACILITY

4332 STATE HIGHWAY 36

ROSENBERG, TEXAS 77471

**BASS CONSTRUCTION
COMPANY**

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

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GENERAL NOTES

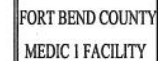
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**BASS CONSTRUCTION
COMPANY**

1124 Damon Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

ISSUED	11-3-00 FOR PERMIT AND CONSTRUCTION
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REMARKS:

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

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SITE PLAN

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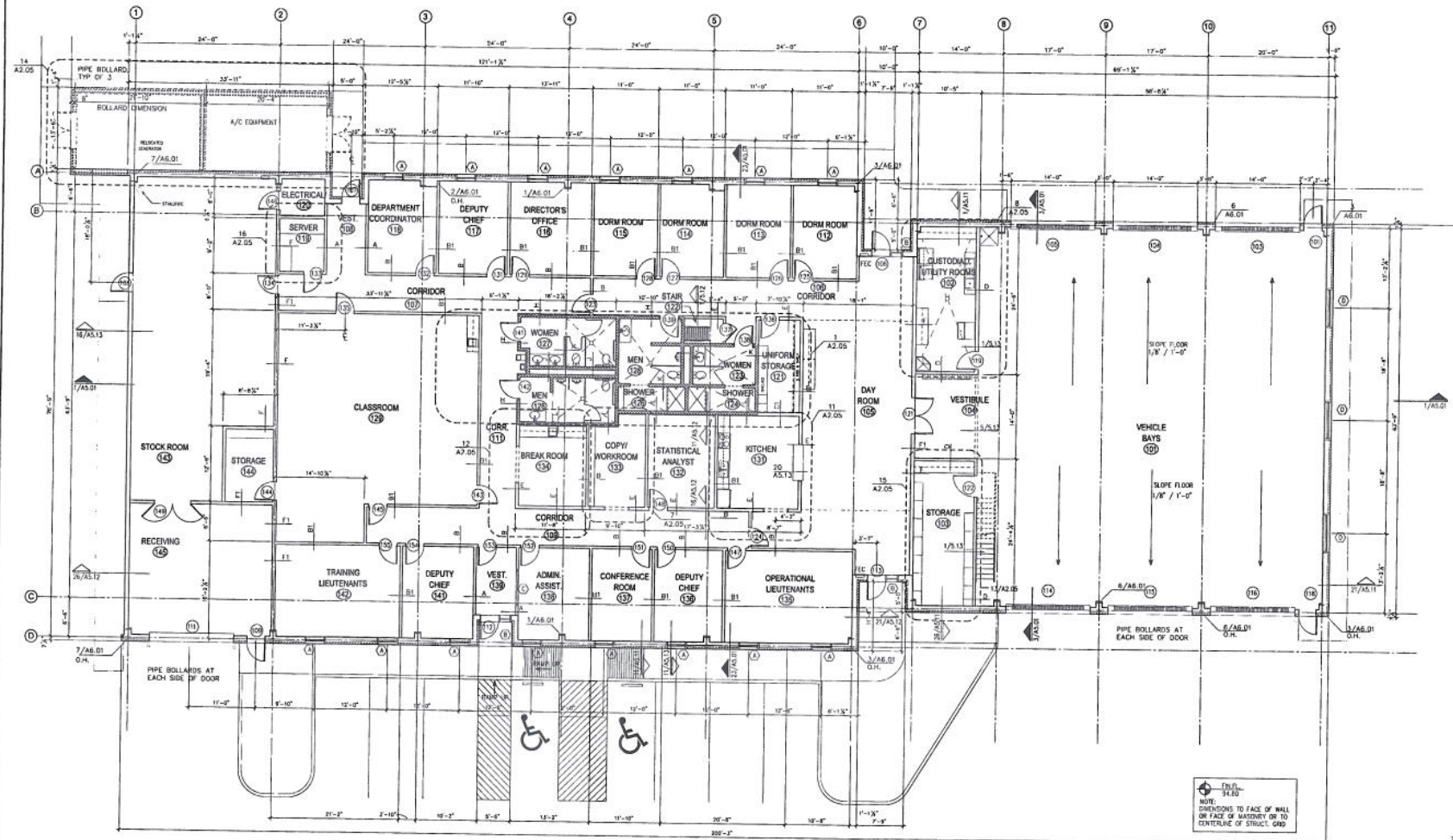
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PLOT SCALE:
LAST UPDATED: 10/28/2009 2:42 PM

PROJECT NUMBER: 08-02
 PROJECT NAME: FORT BEND COUNTY MEDIC I FACILITY
 PROJECT DATE: 10/28/2009 3:02 PM
 LAST UPDATED: 10/28/2009 3:02 PM



NOTE:
 DIMENSIONS TO FACE OF WALL
 OR FACE OF HANDICAP OR TO
 CENTERLINE OF STRUCT. GRID



1 FLOOR PLAN
 1/8"=1'-0"



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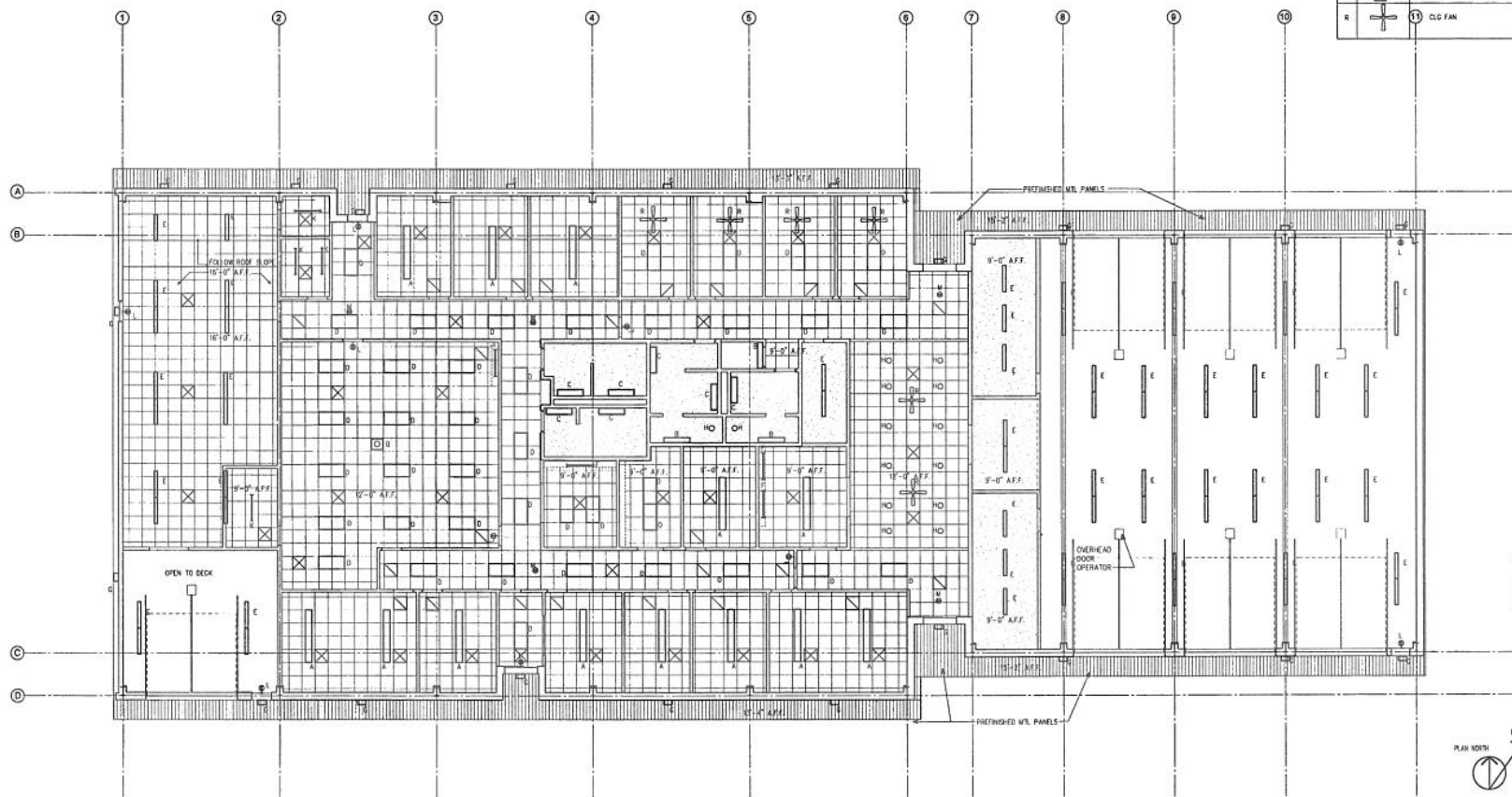
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 COMPANY**

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DATE:	10/28/2009
OWNER:	A201 Floor plan
FLOOR PLAN	
DRAWING NO.:	A2.01

FORT BEND COUNTY MEDIC I FACILITY
 HBLA Project No. 0800

PROJECT NUMBER: 09-09
 PROJECT NAME: FORT BEND COUNTY MEDICAL CENTER
 PLOT SCALE: 1/8" = 1'-0"
 LAST UPDATED: 10/23/2009 2:42 PM



SYMBOLS LEGEND	
A	PENDANT W/FLUORESCENT LIGHT FIXTURE
B	WALL W/FLUORESCENT LIGHT FIXTURE
C	TRAY CEILING W/FLUORESCENT LIGHT FIXTURE
D	2x4 LAY-IN FLUORESCENT LIGHT FIXTURE
E	FLUORESCENT LIGHT FIXTURE
F	FLUOR. LIGHT STRIP / UNDER CABT. FLUOR. LIGHT
G	WALL W/FLUORESCENT LIGHT PACKS
H	RECESSED LIGHT FIXTURE
I	CEILING W/FLUORESCENT LIGHT FIXTURE
J	4 FT FLUORESCENT LIGHT STRIP
K	WALL W/EXT. SIGN
L	CEILING W/EXT. SIGN
M	SUPPLY AIR GRILLE
N	RETURN AIR GRILLE
P	EXHAUST AIR GRILLE
Q	EXHAUSTED PROJECTION (N.C.)
R	CLG. FAN



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FORT BEND COUNTY
MEDIC I FACILITY

4332 STATE HIGHWAY 36
 ROSENBERG, TEXAS 77471

BASS CONSTRUCTION
COMPANY

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 DATE: 10/23/2009

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FORT BEND COUNTY MEDICAL CENTER
 HBLA Project No. 0909

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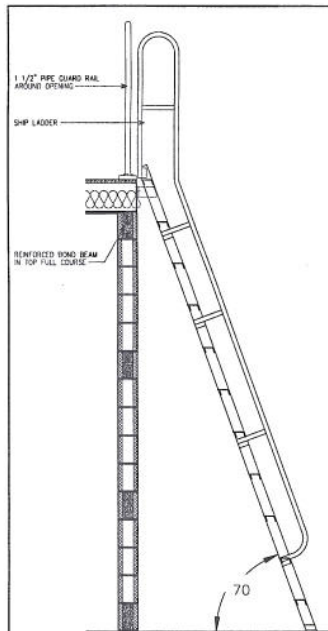
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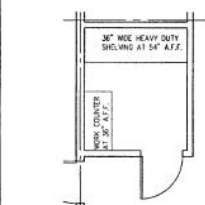
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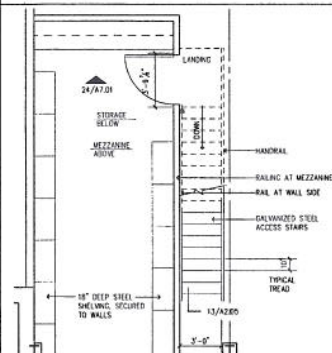
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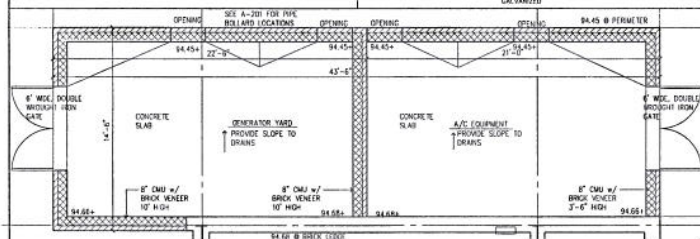
20 MEZZANINE SHIP LADDER
3/4" = 1'-0"



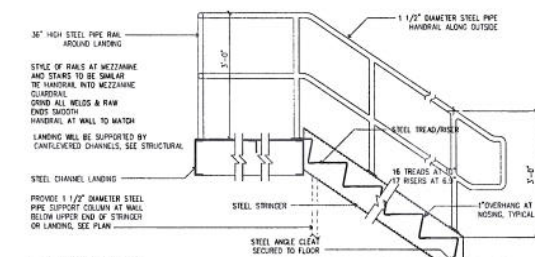
16 SERVER
1/4" = 1'-0"



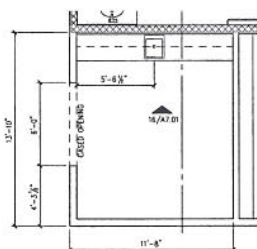
15 STORAGE/MEZZANINE STAIRS
1/4" = 1'-0"



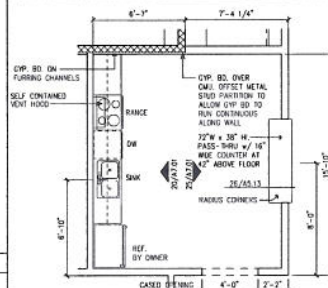
14 A/C EQUIPMENT-GENERATOR YARD
1/4" = 1'-0"



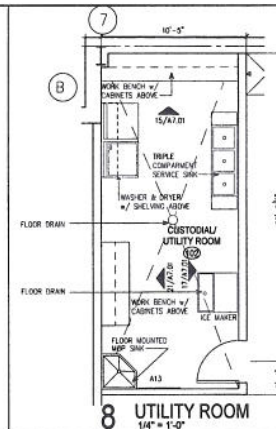
13 STORAGE MEZZANINE STAIR SECTION
3/4" = 1'-0"



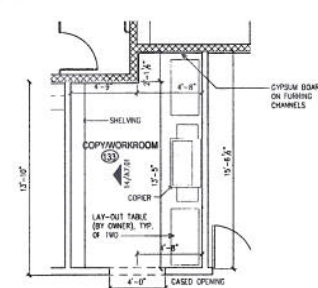
12 BREAK ROOM
1/4" = 1'-0"



11 STAFF KITCHEN
1/4" = 1'-0"



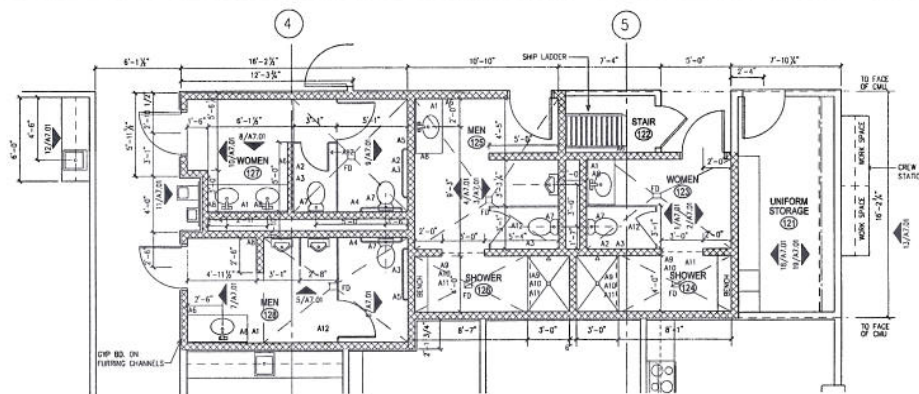
8 UTILITY ROOM
1/4" = 1'-0"



7 COPY/WORK ROOM
1/4" = 1'-0"

NO.	ACCESSORY UNIT	MFR	MODEL NO.	NOTES
A1	CHANNEL FRAME MIRROR	BOBICK	B-290	SEE ELEVATIONS
A2	MAPKIN DISPOSAL	BOBICK	B-254	
A3	TOILET TISSUE DISPENSER	BOBICK	B-4288	
A4	1 1/4" DIA. S.S. GRAB BAR	BOBICK	B-2856/38	
A5	1 1/4" DIA. S.S. GRAB BAR	BOBICK	B-2856/42	
A6	ELEC. HAND DRYER	BOBICK	B-728	
A7	TOILET SEAT COVER DISP.	BOBICK	B-221	
A8	SOAP DISPENSER	BOBICK	B-822	
A9	SHOWER CURTAIN ROD	BOBICK	B-6547	
A10	CURTAIN HOOKS	BOBICK	204-1	
A11	WALL SHOWER CURTAIN	BOBICK	204-2	
A12	HOOK	BOBICK	B-212	
A13	WIP. HOLDER	BOBICK	B-223/28	

4 ACCESSORIES SCHEDULE
1/4" = 1'-0"



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



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MEDIC I FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

BASS CONSTRUCTION
COMPANY

1124 Damon Street
Rosenberg, Texas 77471
281 342 2023
281 341 5071 fax

ISSUED 11-3-08 FOR PERMITS AND CONSTRUCTION

REVISION:

DRAWN BY: ONOCAL
CHECKED BY: KIM
PROJECT NO.: 0900
DATE: 10/29/2008

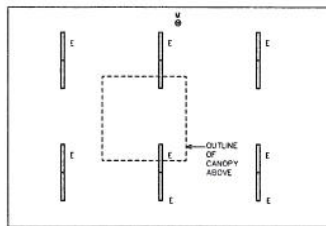
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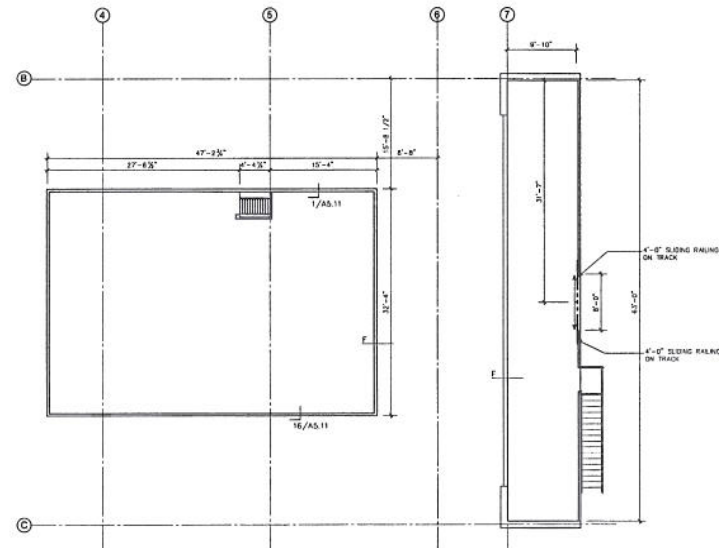
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SHEET: PLANS
PROJECT: FORT BEND COUNTY MEDIC I FACILITY
DATE: 10/29/2008 2:34 PM
LAST UPDATED: 10/29/2008 2:34 PM

PROJECT NUMBER: 05-09
 PROJECT NAME: FORT BEND COUNTY MEDIC I FACILITY
 PLANT SCALE: 1/8"=1'-0"
 LAST UPDATED: 10/27/2008 2:33 PM



2 MEZZANINE REFLECTED CEILING PLAN
 1/8"=1'-0"



1 MEZZANINE FLOOR PLAN
 1/8"=1'-0"

SYMBOLS LEGEND	
A	PENDANT W/DO FLUORESCENT LIGHT FIXTURE
B	WALL W/DO LIGHT FIXTURE
C	6X4 CEILING W/DO LIGHT FIXTURE
D	2X4 LAY-IN FLUORESCENT LIGHT FIXTURE
E	FLUORESCENT FIXTURE
F	FLOOR LIGHT STRIP / UNDER CABT. FLUOR. LIGHT
G	WALL W/DO LIGHT PACKS
H	RECESSED LIGHT FIXTURE
I	CEILING W/DO LIGHT FIXTURE
J	4 FT FLUORESCENT LIGHT STRIP
K	WALL W/DO EXIT SIGN
L	CEILING W/DO EXIT SIGN
M	SUPPLY AIR GRILLE
N	RETURN AIR GRILLE
O	EXHAUST AIR GRILLE
P	PLT MOUNTED PROJECTION (H.A.C.)



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 ARCHITECTS

3701 Kirby, Suite 1166
 Houston, Texas 77005
 (713) 621-7581
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4332 STATE HIGHWAY 36
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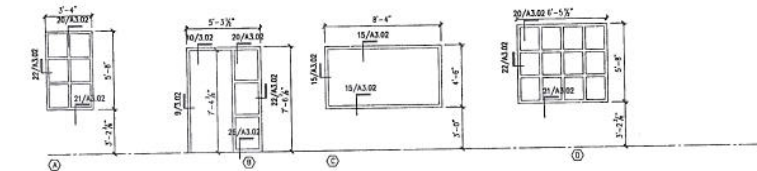
1124 Damon Street
 Rosenberg, Texas 77471
 281 342 2022
 281 341 5071 fax

ISSUED: 11-3-04
 FOR PERMIT
 AND CONSTRUCTION

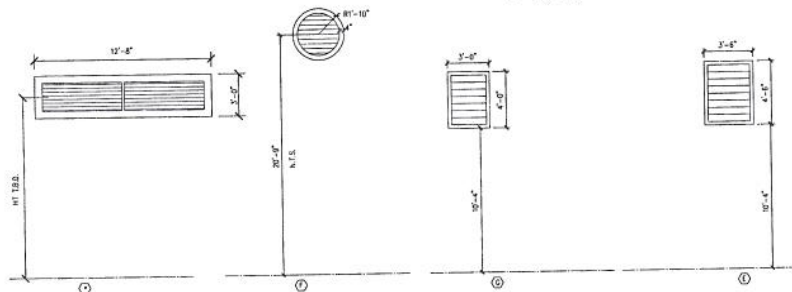
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 CHECKED BY: DR/CLM
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 DATE: 10/29/2008
 DWG. FILE: A208 Mezzanine Plan.dwg
 SHEET TITLE: MEZZANINE FLOOR PLAN
 DRAWING NO.: A2.06

FORT BEND COUNTY MEDIC I FACILITY
 HBLA Project No. 0909

WINDOW SCHEDULE									
TYPE	NOMINAL SIZE (WxH)	DEPTH	FRAME	HEAD	JAMB	SILL	HD. WT.	GLAZING	NOTES
A	3'-4" x 5'-8"		ALUM.	20	22	21	9'-1/2"		
B	2'-1" x 7'-6"		ALUM.	20	22	20	7'-6 5/8"		
C	8'-4" x 4'-8"		ALUM.	15	15	15	7'-6"		
D	6'-5" x 5'-8"		ALUM.	20	22	21	9'-1/2"		



1 WINDOW TYPES
1/4" = 1'-0"

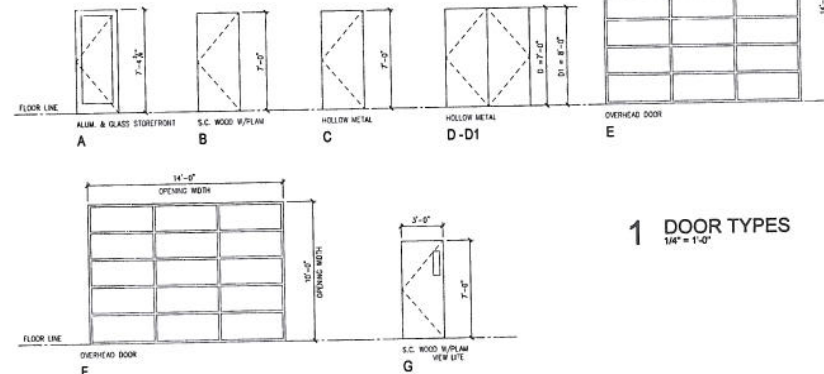


2 LOUVER TYPES
1/4" = 1'-0"

DOOR SCHEDULE

NO.	SIZE (WxH)	TYPE	FRAME	HEAD	JAMB	SILL	HD. WT.	NOTES
101	3'-0" x 7'-0" x 1 3/4"	C	H.M.	10	9	6		
102	NOT USED	-	-	-	-	-	-	
103	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
104	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
105	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
106	3'-0" x 7'-0" x 1 3/4"	A	ALUM.	25	24	6		STANDARD CARD READER
107	3'-0" x 7'-0" x 1 3/4"	C	H.M.	10	9	6		CARD READER
108	3'-0" x 7'-0" x 1 3/4"	C	H.M.	28	27	6		CARD READER
109	3'-0" x 7'-0" x 1 3/4"	C	H.M.	10	9	6		CARD READER
110	NOT USED	-	-	-	-	-	-	
111	14'-0" x 10'-0" O.H. DOOR	F	H.M.	13	12	11		STANDARD CARD READER
112	3'-0" x 7'-0" x 1 3/4"	A	ALUM.	25	24	6		STANDARD CARD READER
113	3'-0" x 7'-0" x 1 3/4"	A	ALUM.	25	24	6		STANDARD CARD READER
114	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
115	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
116	14'-0" x 14'-0" O.H. DOOR	E	H.M.	13	12	11		
117	NOT USED	-	-	-	-	-	-	
118	3'-0" x 7'-0" x 1 3/4"	C	H.M.	10	9	6		
119	3'-0" x 7'-0" x 1 3/4"	C	H.M.	5	4	1		
120	NOT USED	-	-	-	-	-	-	
121	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	5	4	1		
122	3'-0" x 7'-0" x 1 3/4"	C	H.M.	5	4	1		
123	3'-0" x 7'-0" x 1 3/4"	G	ALUM.	14	7	8		
124	3'-0" x 7'-0" x 1 3/4"	G	ALUM.	14	7	8		
125	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
126	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
127	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
128	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
129	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
130	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
131	NOT USED	-	-	-	-	-	-	
132	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
133	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
134	3'-0" x 7'-0" x 1 3/4"	C	H.M.	5	4	1		
135	3'-0" x 7'-0" x 1 3/4"	G	ALUM.	14	19	8		SEE HOW NOTE BELOW
136	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
137	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		
138	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	30	29	8		
139	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	30	29	8		
140	NOT USED	-	-	-	-	-	-	
141	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	30	29	8		
142	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	30	29	8		
143	3'-0" x 7'-0" x 1 3/4"	G	ALUM.	14	19	8		SEE HOW NOTE BELOW
144	3'-0" x 7'-0" x 1 3/4"	B	ALUM.	14	19	8		SEE HOW NOTE BELOW
145	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
146	3'-0" x 7'-0" x 1 3/4"	C	H.M.	3	2	1		
147	3'-0" x 7'-0" x 1 3/4"	G	ALUM.	14	19	8		
148	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
149	2'-0" x 8'-0" x 1 3/4"	D1	H.M.	3	2	1		
150	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
151	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
152	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
153	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
154	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		
155	3'-0" x 7'-0" x 1 3/4"	C	ALUM.	14	19	8		

*PROVIDE SOUND SEALS AND SHEETS AT DOOR/FRAMES



1 DOOR TYPES
1/4" = 1'-0"



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MEDIC 1 FACILITY

4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

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1124 Damon Street
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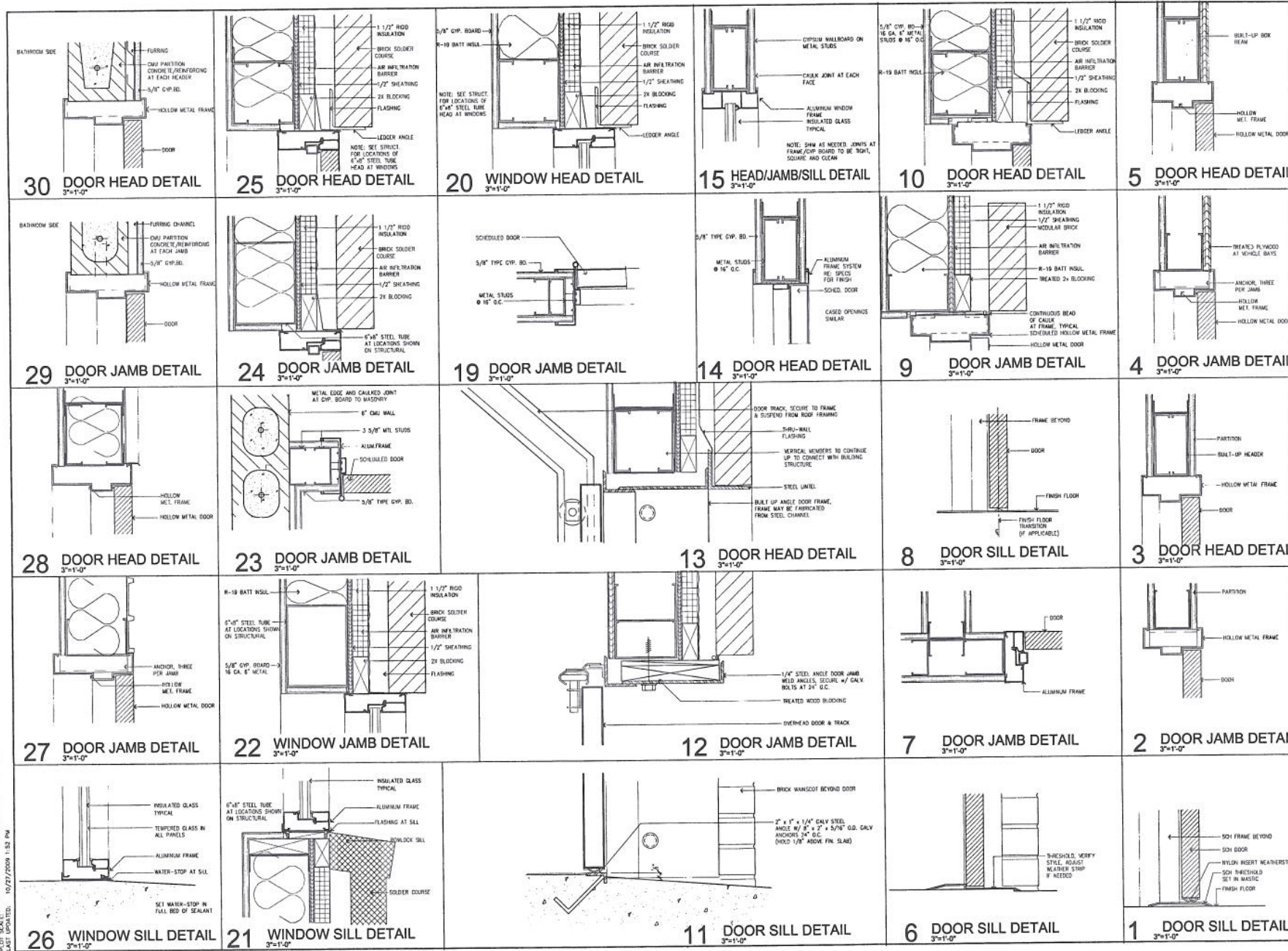
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CHECKED BY: GNSCH
PROJECT NO.: 0903
DATE: 10/29/2009

SCHEDULES
DRAWING NO.

A3.01

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PROJECT NAME: FORT BEND COUNTY MEDIC 1 FACILITY
LAST MODIFIED: 10/29/2009 12:58 PM

PROJECT NUMBER: 09-08
 PROJECT NAME: 1124 DUNN STREET
 LAST UPDATED: 10/27/2009 1:52 PM



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COMPANY

1124 Dunn Street
Rosenberg, Texas 77471
281 342 2022
281 341 5071 fax

DESIGNED BY: 11-3-08
FOR PERMIT AND CONSTRUCTION

REVISION:

DESIGNED BY: 0804
CHECKED BY: 0804
PROJECT NO.: 0908
DATE: 10/28/2009

DWG. FILE: A302 Dr & Wn Details on 11/1/2009

SHEET TITLE: DETAILS

DRAWING NO.: A3.02

100	101	102
EACH TO HAVE:	EA	POWER TRAIL
1	EA	CONTINUOUS
EPT	62B	IVE
1	EA	PANIC HARD
1	EA	RBH CYLINDER
1	EA	CORE ONLY
1	EA	OFFSET GOG
1	EA	CONCEALED
1	EA	SECURITY FL
1	SET	SEALS
1	EA	DOOR SWEET
1	EA	THRESHOLD
1	EA	POWER SUPP
1	EA	CARD READER

101	118
EACH TO HAVE:	
1	EA CONTINUOUS
1	EA PANIC HARD
1	EA RM CYLINDER
1	EA CORE ONLY
1	EA DOOR PULL
1	EA SURFACE CL
1	SET SEALS
1	EA DRIP CAP
1	EA DOOR SWEEP
1	EA THRESHOLD

1	EA	POWER TRAIN
1	EA	CONTINUOUS
1	EA	ME
1	EA	PANIC HARD
1	EA	RM. CYLINDR
1	EA	CORE ONLY
1	EA	SURFACE CL
1	EA	SECURITY FI
1	EA	SEALS
1	EA	DRIP CAP
1	EA	DOOR SNEE
1	EA	THRESHOLD
1	EA	CARD READ
1	EA	POWER SUP

EACH TO HAVE:	
1	EA POWER TRAIN
1	EA CONTINUOUS
1	EA ME
1	EA CU STORAGE
1	EA CORE ONLY
1	EA SURFACE CL
1	EA SECURITY FI
1	EA SET
1	EA DRIP CAP
1	EA DOOR SWEEPER
1	EA THRESHOLD
1	EA LOCK GUARD
1	EA CARD READER
1	EA POWER SUPPLY

EA	HINGE
EA	STOREROOM
EA	CORE ONLY
EA	ELECTRIC ST
EA	SURFACE C
EA	DOOR STOP
SET	SEALS
EA	CARD READER
EA	POWER SLIP

EACH TO HAVE:		
1	EA	MORTGAGE, CR
1	EA	CORE ONLY

HW SET 07		
DOOR NUMBER:		
119	122	134
EACH TO HAVE:		
3	EA	HINGE
1	EA	STOREROOM
1	EA	CORE ONLY
1	EA	SURFACE CI
1	EA	DOOR STOP
3	EA	SILENCER

EACH TO HAVE:	EA	HINGE
3	EA	STOREROOM
1	EA	CORE ONLY
1	EA	SURFACE C
1	EA	DOOR STOP
1	SET	SEALS

EACH TO HAVE:

0	EA	HINGE
2	EA	FLUSH BOLT
1	EA	DUST PROOF
1	EA	STOREROOM
1	EA	CORE ONLY
1	SET	ASTRAGAL
1	EA	SURFACE CL
1	EA	DOOR STOP
2	EA	SILENCER

NOTE: INSTALL CLOSER @ ACTIVE LEAF

HW SET: 10

DOOR NUMBER:

3	EA	HINCE
1	EA	STOREROOM
1	EA	CORE ONLY
1	EA	SURFACE C
1	EA	DOOR STOP
1	SET	SEALS

HW SET: 11

DOOR NUMBER:		
129	131	132
151	152	154

EACH TO HAVE:

1	SET	SEALS
HW SET: 12		
DOOR NUMBER:	123	124
EACH TO HAVE:		
3	EA	HINGE
1	EA	CLASSROOM
1	EA	CORE ONLY
1	EA	SURFACE CL
1	EA	DOOR STOP
1	SET	SEALS
HW SET: 12A		
DOOR NUMBER:		

3	EA	HINGE
1	EA	CLASSROOM
1	EA	CORE ONLY
1	EA	SURFACE CL
1	EA	DOOR STOP
1	EA	SET SCALS
1	EA	DOOR BOTH
1	EA	THRESHOLD

HW SET: 13

DOOR NUMBER:
143

EACH TO HAVE:

3	EA	HINGE
1	EA	CLASSROOM
1	EA	CORE ONLY

HW SET: 14	EA	THRESHOLD
DOOR NUMBER:		
125	126	127
EACH TO HAVE:		
3	EA	HINGE
1	EA	PRIVACY SET
1	EA	DOOR STOP
1	SET	SEALS
HW SET: 15		
DOOR NUMBER:		

3	EA	HINGE
1	EA	PUSH PLATE
1	EA	PULL PLATE
1	EA	SURFACE C
1	EA	KICK PLATE
1	EA	DOOR STOP

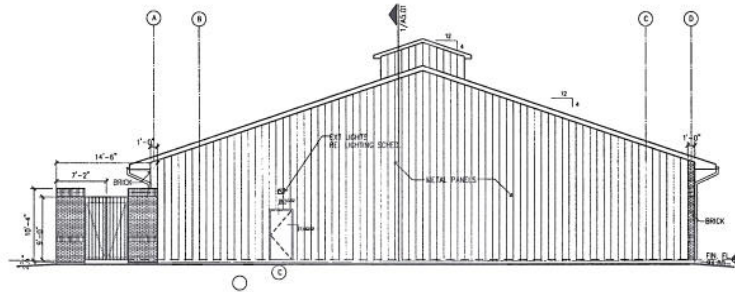
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EACH TO HAVE:		
3	EA	HINGE
1	EA	PUSH PLATE
1	EA	PULL PLATE
1	EA	SURFACE CL
1	EA	KICK PLATE
1	SET	SEALS
HW SET: 17		
DOOR NUMBER:		

0	EA	HINGE
1	EA	PANIC HASE
1	EA	PANIC HASE
1	EA	RIM CYLINDER
1	EA	CORE ONLY
1	SET	ASTRAGAL
2	EA	SURFACE CL
1	SET	SEALS
2	EA	DOOR SWEE
1	EA	THRESHOLD

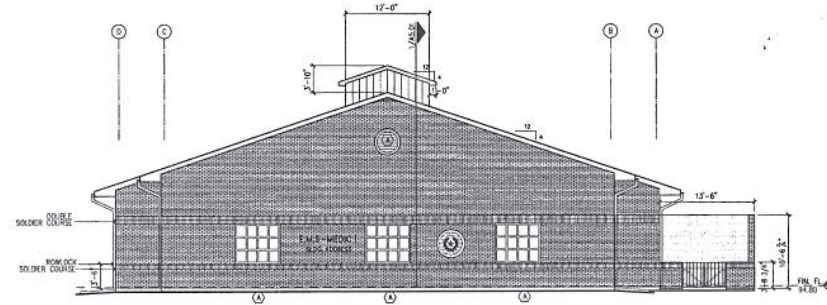
1 DOOR HARDWARE



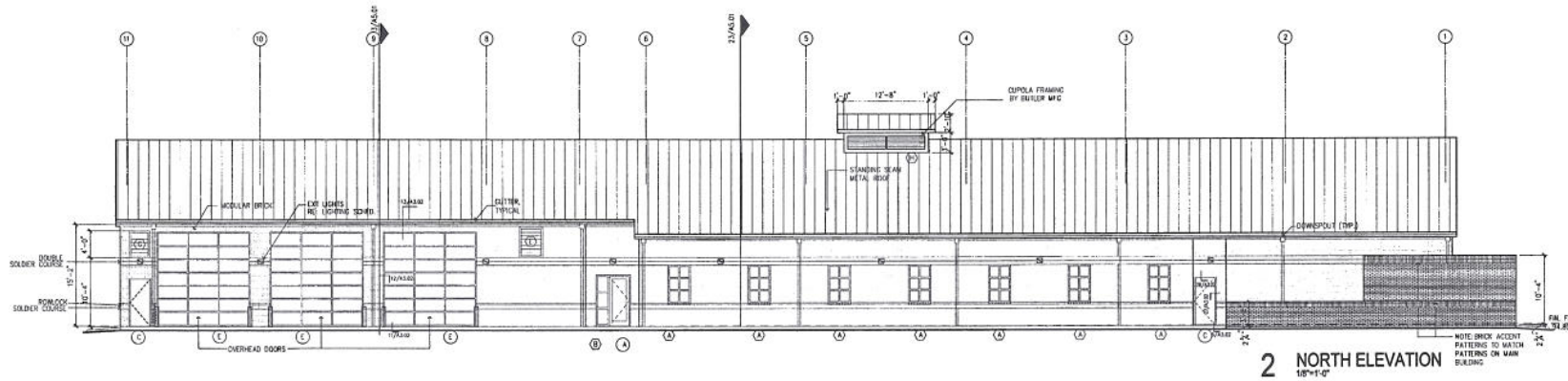
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LAST UPDATED:



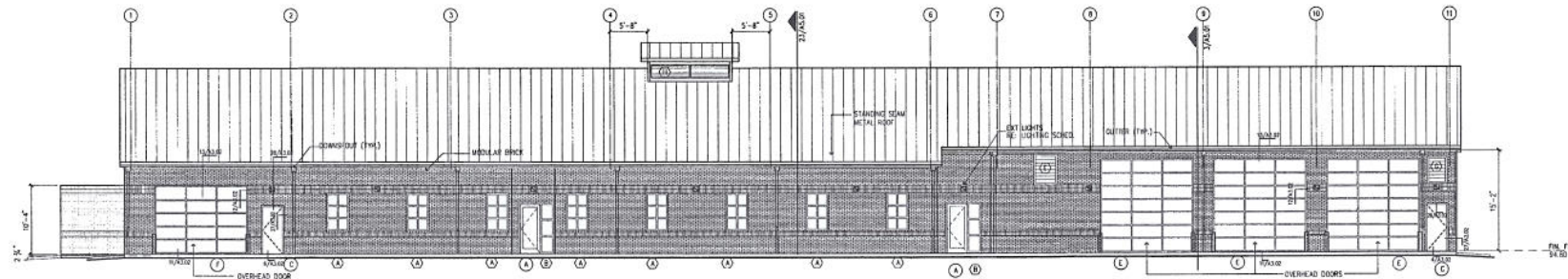
4 WEST ELEVATION
18'-1'-0"



3 EAST ELEVATION
18'-1'-0"



2 NORTH ELEVATION
18'-1'-0"



1 SOUTH ELEVATION
18'-1'-0"

PROJECT NUMBER: 05-09
SHEET TITLE: NAME: FORT BEND COUNTY MEDIC I FACILITY
LAST MODIFIED: 10/27/2009 11:43 AM



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Houston, Texas 77098
(713) 621-7581
(713) 623-8258 (fax)
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4332 STATE HIGHWAY 36
ROSENBERG, TEXAS 77471

BASS CONSTRUCTION
COMPANY

1124 Damon Street
Rosenberg, Texas 77471
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ISSUED: 01-3-09
FOR PERMIT
AND CONSTRUCTION

REVISION:

DRAWN BY: ON/PC/M
CHECKED BY: GIB
PROJECT NO.: 0909
DATE: 10/28/2009

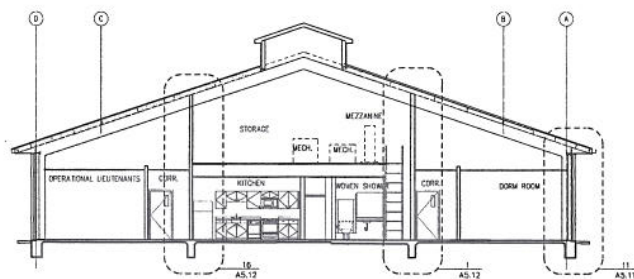
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DRAWING NO.

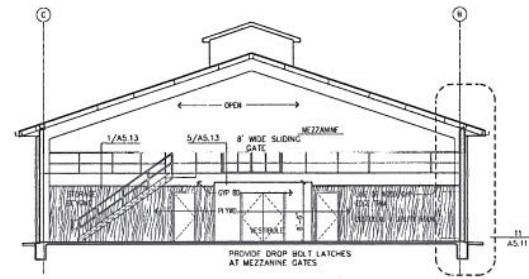
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FORT BEND COUNTY MEDIC I FACILITY
HBLA Project No. 0909

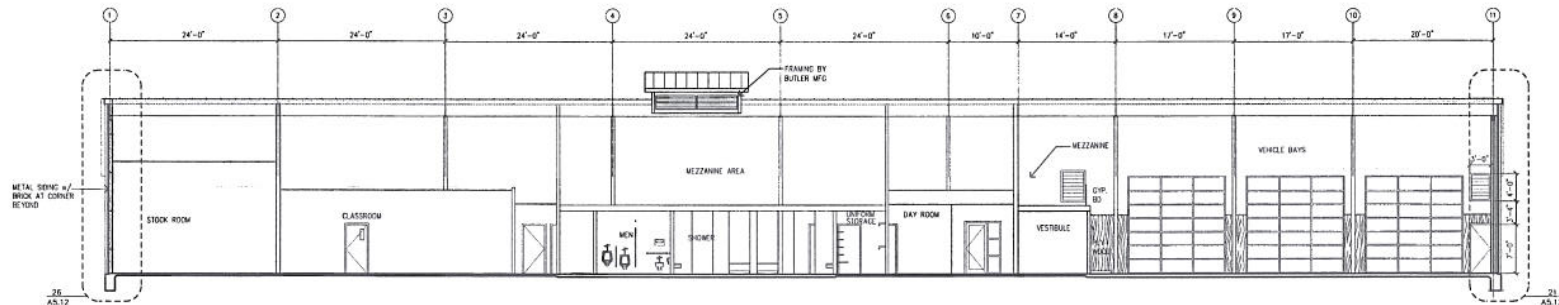
PROJECT NUMBER: 09-09
 PROJECT NAME: FORT BEND COUNTY MEDIC 1 FACILITY Building Section
 PROJECT NO.: 0903
 LAST UPDATED: 10/27/2009 2:13 PM



23 BLDG SECTION
1/8"=1'-0"



3 BLDG SECTION
1/8"=1'-0"



1 BLDG SECTION
1/8"=1'-0"



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BASS CONSTRUCTION
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REVISION:

DRAWN BY: 09/02/09
 CHECKED BY: 09/03
 PROJECT NO.: 0903
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DWG. FILE: A501 Building Section.dwg
 SHEET TITLE:

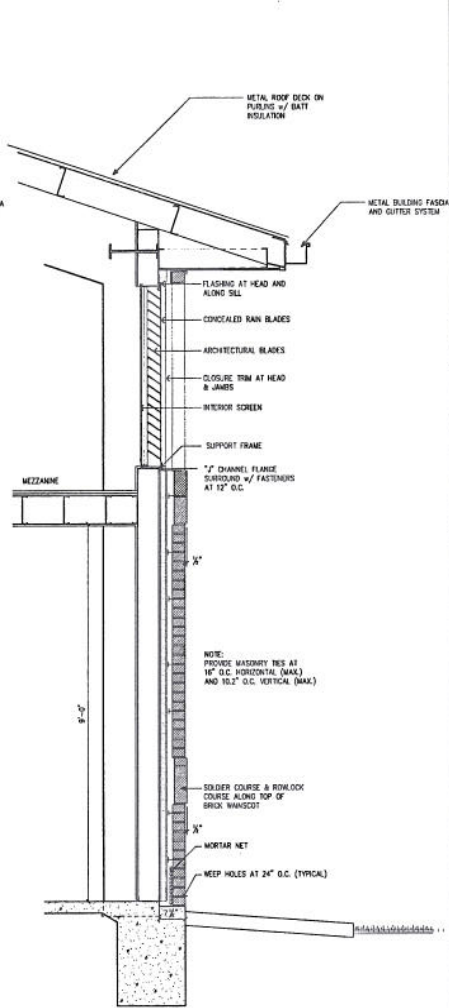
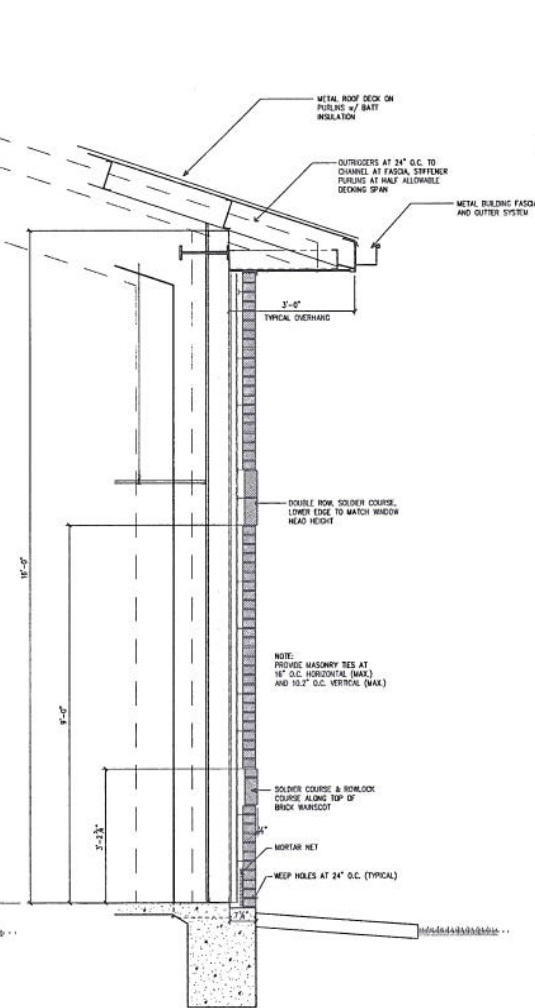
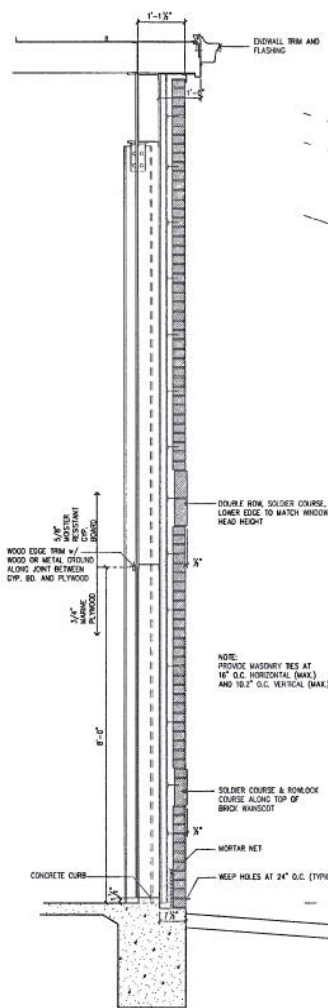
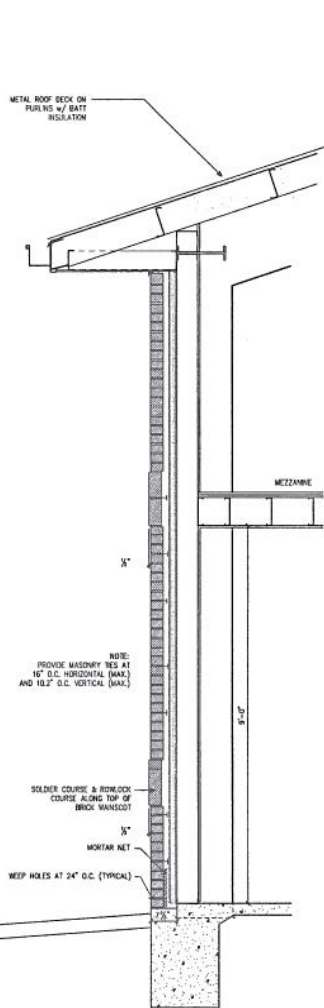
SECTIONS

DRAWING NO.

A5.01

FORT BEND COUNTY MEDIC 1 FACILITY
 HBLA Project No. 0909

PROJECT NUMBER: 09-00
 SHEET FILE NAME: E:\PROJECTS\HBL\09-00\FBC\HBL\09-00\AS11 Wall Sections.dwg
 LAST UPDATED: 10/26/2009 11:23 AM



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ARCHITECTS

3701 Kirby, Suite 1166
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(713) 623-8258 (fax)
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BASS CONSTRUCTION COMPANY

1124 Damon Street
Rosenberg, Texas 77471
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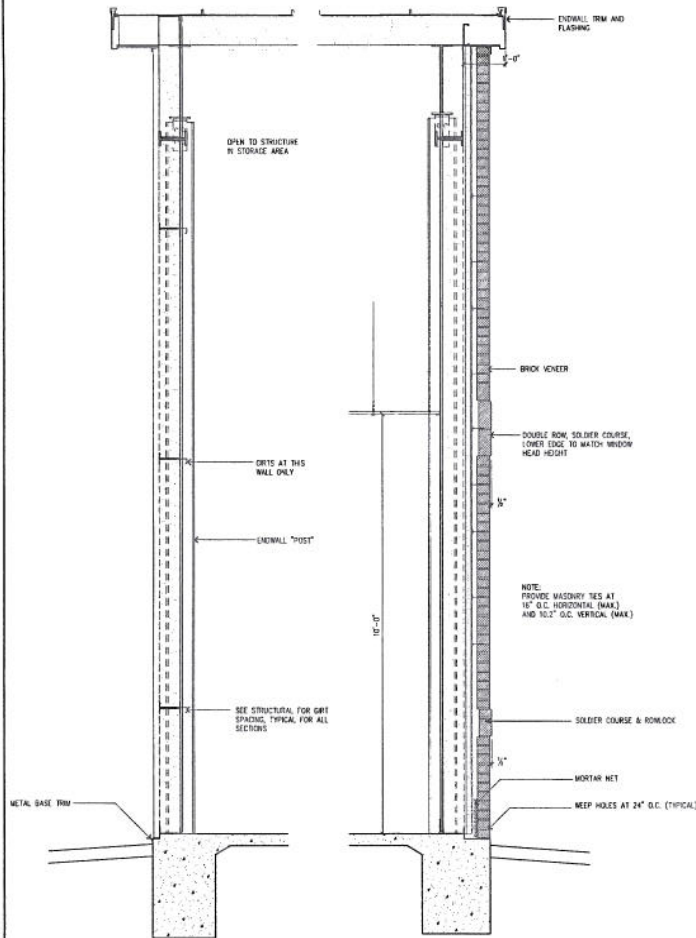
ISSUED: 11-3-09 FOR PERMIT AND CONSTRUCTION

REVISION:

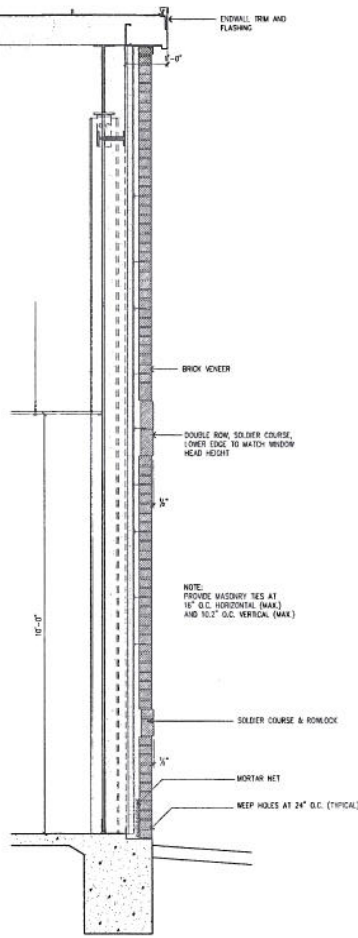
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 CHECKED BY: DWJ
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 DRAWING NO.: **A5.11**

PROJECT NUMBER: 09-09
 PROJECT NAME: FORT BEND COUNTY MEDIC I FACILITY
 DRAWN BY: HBL
 CHECKED BY: HBL
 PROJECT NO.: 0909
 DATE: 10/28/2009
 LAST UPDATED: 10/28/2009 2:26 PM

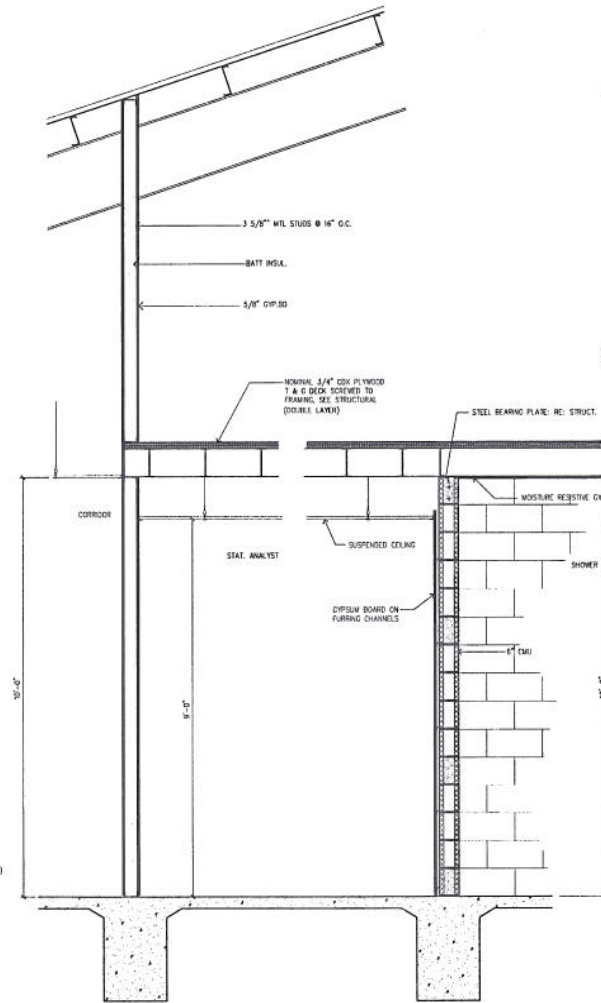
26 WALL SECTION
 3/4"x1'-0" AT WEST ELEVATION



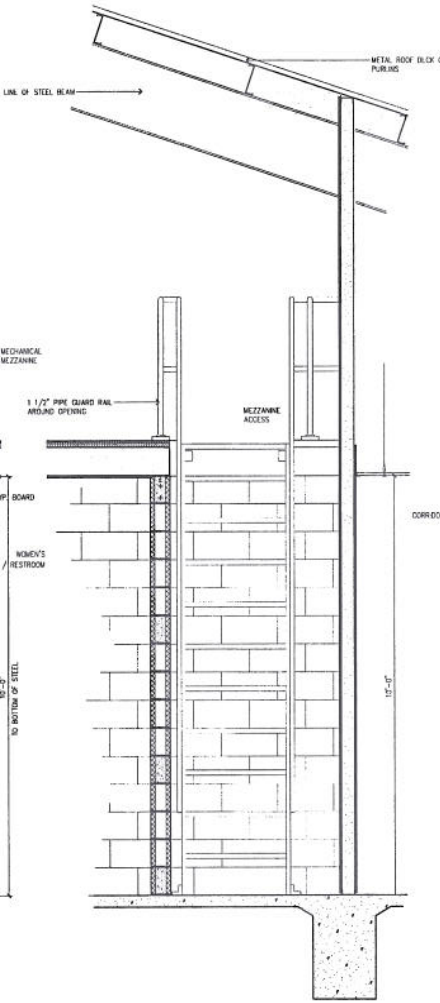
21 WALL SECTION
 3/4"x1'-0"



16 WALL SECTION
 3/4"x1'-0"



11 WALL SECTION
 3/4"x1'-0"



1 WALL SECTION
 3/4"x1'-0"

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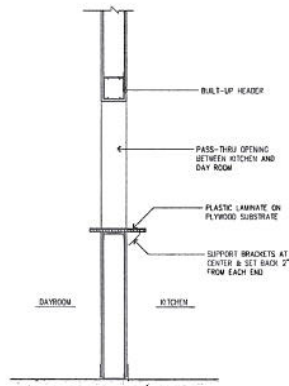
**BASS CONSTRUCTION
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 Rosenberg, Texas 77471
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 281 341 5971 fax

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AND CONSTRUCTION	
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CHECKED BY:	HBL
PROJECT NO.:	0909
COPYRIGHT:	10/28/2009
FILE ADDRESS:	
DWG. FILE:	A512 Wall Sections
SHEET TITLE:	
WALL SECTIONS	
DRAWING NO.:	

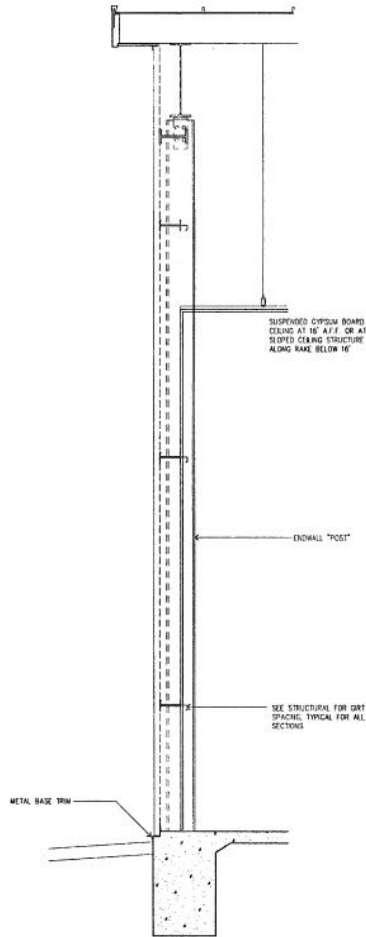
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FORT BEND COUNTY MEDIC I FACILITY
 HBLA Project No. 0909

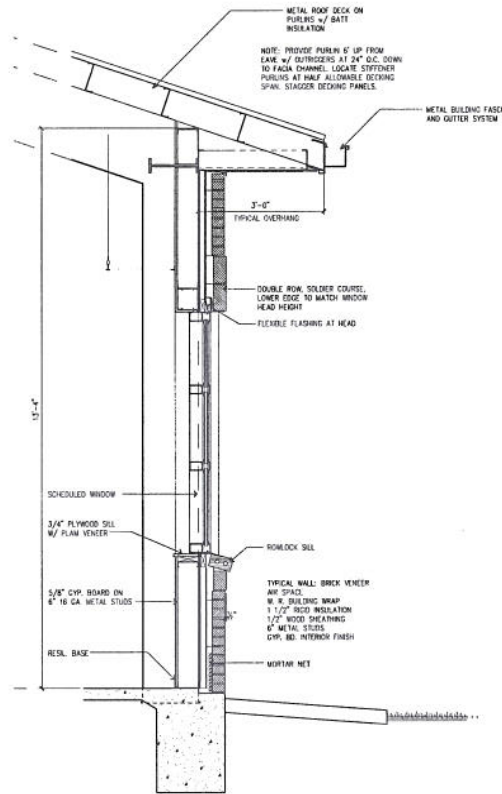
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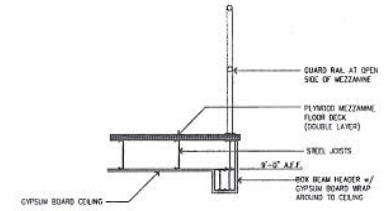
26 WALL SECTION
3/4"=1'-0"



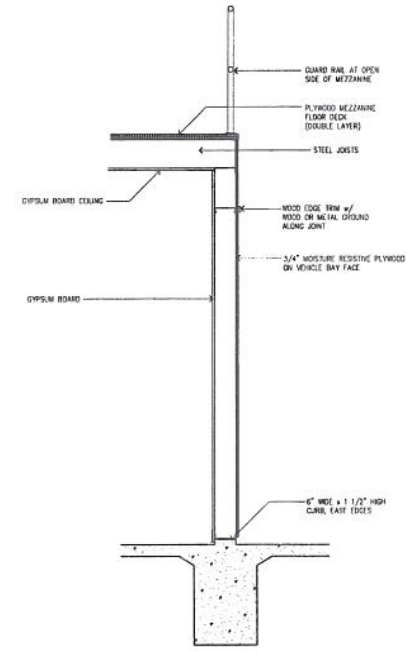
16 WALL SECTION
3/4"=1'-0" AT WEST ELEVATION



11 WALL SECTION
3/4"=1'-0"



5 WALL SECTION
3/4"=1'-0"



1 WALL SECTION
3/4"=1'-0"



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3701 Kirby, Suite 1166
Houston, Texas 77099
(713) 621-7581
(713) 623-8258 (fax)
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ROSENBERG, TEXAS 77471

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COMPANY

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CHECKED BY: CMC
PROJECT NO.: 0909
COP/REVISED: 10/29/2009

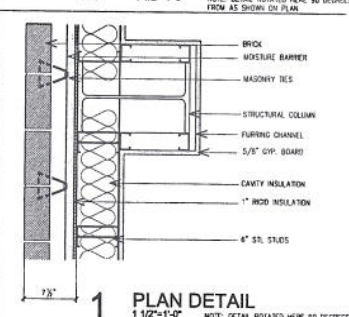
ENG. FILE: A513 Wall Sections.dwg
SHEET SIZE: 11x17

WALL SECTIONS

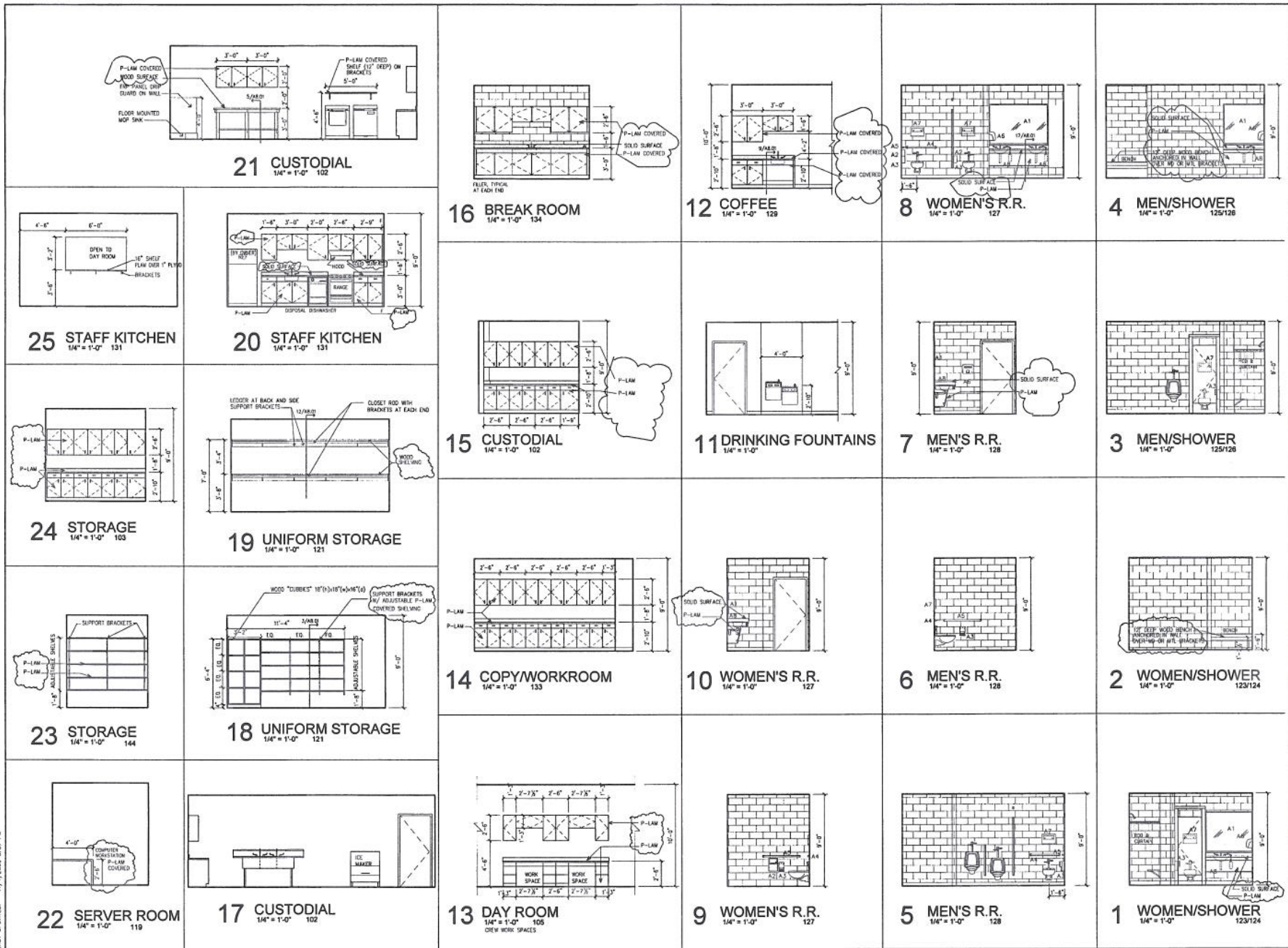
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FORT BEND COUNTY MEDIC I FACILITY
HBLA Project No. 0909



PROJECT NUMBER: 06-05
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SHEET SCALE: 1/4" = 1'-0"
LAST UPDATED: 11/4/2009 3:07 PM



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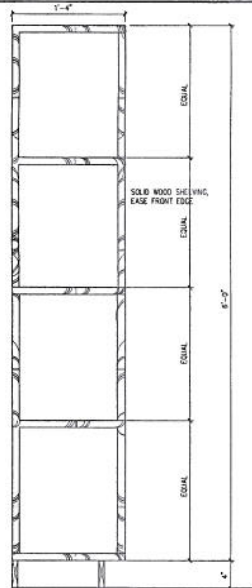
REVISION:

DRAWN BY: ONOCHAI
CHECKED BY: OBE
PROJECT NO.: 0905
DATE: 11/4/2009
DWG. FILE: A701 Interiors.com
SHEET TITLE: INTERIOR ELEV.

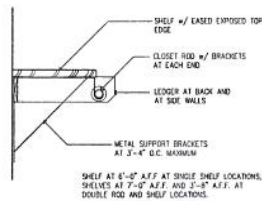
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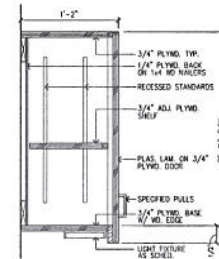
FORT BEND COUNTY MEDIC I FACILITY
HBLA Project No. 0905



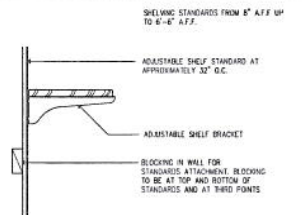
19 WOOD CUBICLES
NO SCALE



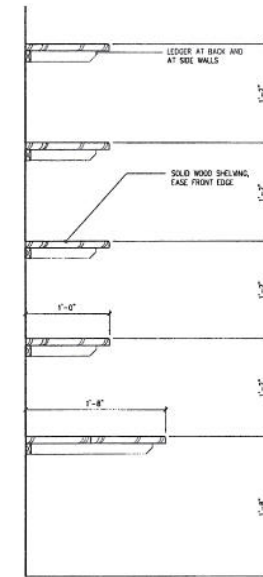
12 CLOSET SHELVING
1 1/2" = 1'-0"



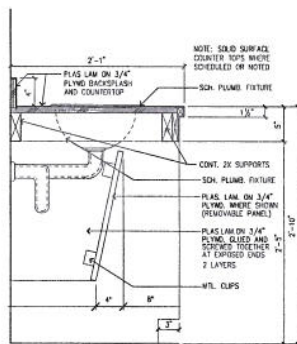
8 WALL CABINET
1 1/2" = 1'-0"



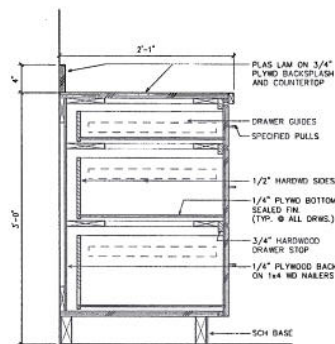
11 ADJUSTABLE SHELVING
NO SCALE



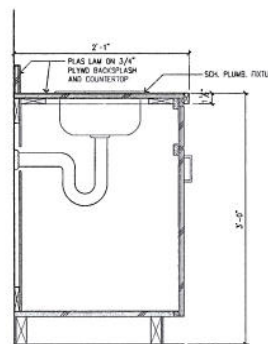
3 PANTRY SHELVING
1 1/2" = 1'-0"



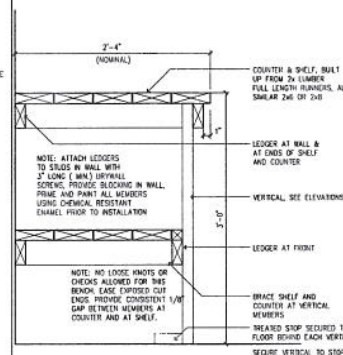
17 PROTECTIVE PANEL
1 1/2" = 1'-0"



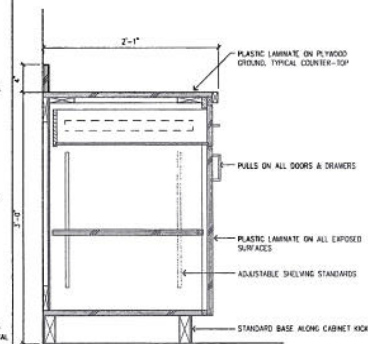
13 DRAWER BASE
1 1/2" = 1'-0"



9 SINK BASE
1 1/2" = 1'-0"



5 WORK BENCH
1 1/2" = 1'-0"



1 BASE CABINET
1 1/2" = 1'-0"



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BASS CONSTRUCTION
COMPANY

1124 Damon Street
Rosenberg, Texas 77471
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ISSUED BY: **SI-J-01**
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DESIGNED BY: **OW/SCM**
CHECKED BY: **0001**
PROJECT NO.: **0002**
DATE: **10/29/2009**

DRW FILE: **ABP 10/29/09**
SHEET FILE: **MILLWORK**

DRAWING NO.: **A8.01**

PROJECT NUMBER: **09-08**
SHEET FILE NAME: **F:\PROJECTS\WOODWORK\09-08-FBC-INT-UC-LABO1.Millwork.dwg**
LAST UPDATED: **10/27/2009 9:44 AM**

FORT BEND COUNTY MEDIC I FACILITY
SHEET NO. 0001

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.		ABBREVIATIONS	
HVAC EQUIPMENT & DUCTWORK		AFT ARISE FRIED FISH BL BLINDING AIRPORT SYSTEM BD DUCTWORK SHAPED CD CLING FILL PER MINUTE CE DIRECT EXHAUST AIR CE DIRECT EXPANSION FTA FROM FLOOR ABOVE FTR FROM FLOOR BELOW GW GALLONS PER MINUTE MC METERS OF WATER COLUMN MPM METERS PER MINUTE MPM 1000 BTU PER HOUR	MC MECHANICAL CONTRACTOR MPM MINUTE MC MISC. HOUSE MC EXHAUST AIR MPM PER HOUR SA SUPPLY AIR SA SPLIT DUCT DETECTOR STA TO FLOOR ABOVE STA TO FLOOR BELOW TYP TYPICAL UN UNLESS NOTED OTHERWISE WPM WATERS WPM WATERS
BRANCH DUCT WITH 45° REACTION-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER 		STANDARD MOUNTING HEIGHTS	
ELBOW WITH TURNING VANES 		MECHANICAL (WFT, ALL UNLESS NOTED OTHERWISE)	
RETURN, EXHAUST, OR OUTSIDE AIR DUCT UP 		TERMINOLOGY (USER ADJUSTABLE)	
RETURN, EXHAUST, OR OUTSIDE AIR DUCT DOWN 		CONTROLS (CONTROLLING)	
SUPPLY AIR DUCT UP 		ANNOTATION	
SUPPLY AIR DUCT DOWN 		1 MECHANICAL PLAN CALLOUT	
EQUIPMENT WITH FLEXIBLE DUCT CONNECTION 		2 MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)	
MANUAL VOLUME DAMPER 		3 CONNECTION POINT OF NEW WORK TO EXISTING	
DUCT MOUNTED SMOKE DETECTOR (SD-SUPPLY-TO-RETURN) 		4 DETAIL REFERENCE POINT NUMBER INDICATES DETAIL NUMBER. LOWER NUMBER INDICATES SHEET NUMBER.	
MOTORIZED DAMPER		5 SECTION OUT DESIGNATION	
THERMOSTAT			

AREA PURPOSE	GROSS FLOOR AREA (SQ. FT)	CODE, OUTSIDE AIR REQUIREMENTS					SYSTEM NUMBER	ACTUAL OUTSIDE AIR (CFM PER UNIT)
		CFM PER SQ. FT	CFM RECD.	CFM PER PERSON	NO. OF PEOPLE	CFM RECD.		
OFFICE	2,671	0	20	14	280	FDU-2	180	
BOARD ROOM	847	0	15	8	120	FDU-3	150	
CORRIDOR	1,337	0.05	67	0	0	FDU-4	225	
DAY ROOM	897	0	15	7	105	FDU-5	450	
CLASSROOM	1,648	0	15	40	600	FDU-6	235	
CAFETERIA/ROCKING	1,36	0.50	68	0	0	FDU-7	175	
STOCK ROOM	1,164	0.15	175	0	0			
		TOTAL =	310		1,105		TOTAL = 1,415	

SPACE SERVED	SUMMER DESIGN DRY BULB TEMP (F)	SUMMER DESIGN WB TEMP (F) / RH (%)	WINTER DESIGN TEMPERATURE (F)	WINTER DESIGN RH (%)	NOTES
OUTSIDE AIR	97 F	77 F	27 F	30%	A,B
GENERAL AREAS	72 F	50%	70 F	NA	
ELECTRICAL ROOM	95 F	NA	50 F	NA	

NOTES:
A- OUTSIDE AIR SUMMER TEMPERATURES BASED ON ASHRAE 0.4.5 DESIGN CONDITIONS.
B- OUTSIDE AIR WINTER TEMPERATURES BASED ON ASHRAE 99.6% DESIGN CONDITIONS.

MARK	MANUFACTURER	MODEL	HP/PT (BHP/HP)	MIN. EFF. EQUIV. (FL)	BERBERE EQUIV. (FL)	FLA	WDCP	V/PH	MSR CODE	WEIGHT	NOTES
GRH-1	REZNOR	VR-175-40	175,000	80	40	1.2	15	120/1	NF	200	A - F
GRH-2	REZNOR	VR-175-40	175,000	80	40	1.2	15	120/1	NF	200	A - F
GRH-3	REZNOR	VR-175-40	175,000	80	40	1.2	15	120/1	NF	200	A - F

NOTES:

A. PROVIDE WITH WALL MOUNTED THERMOSTAT.

B. PROVIDE MANUAL, SUMMER/WINTER CHANGE-OVER SWITCH.

C. PROVIDE NECESSARY MOUNTING BRACKET AND ACCESSORIES FOR MOUNTING.

D. DISCONNECT SWITCH FURNISHED BY DIVISION 18 CONTRACTOR.

E. PROVIDE MANUFACTURERS OUTSIDE COULECTOR AIR KIT.

F. PROVIDE MANUFACTURERS FRESH AIR INTAKE CAP AND COMBUSTION DISCHARGE CAP.

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN.)	MAX. MC	MAX. PRESS. DROP (IN. W.G.)	NOTES
CS02	TITUS	PCS	PERFORATED	CEILING	24x24	0.1	—	A, B, C, D, E, F, G
CS02	TITUS	PCS-AA	PERFORATED	CEILING	12x12	25	0.1	A, B, C, D, E, F, G
CE01	TITUS	PAN-AA	PERFORATED	CEILING	12x12	25	0.1	A, C, D, E, F, G, H
CH01	TITUS	PXP	PERFORATED	CEILING	24x24	—	0.08	D, F
CS02	TITUS	PWP-AA	PERFORATED	CEILING	12x12	25	0.08	D, F, G, H
DR01	CT-700L	—	GRILLE	DOOR	24x24	—	—	I, J
SS01	TITUS	301PS	GRILLE	CEILING	RE. PLANS FOR NECK SIZE	25	0.08	A, C, D, E, G
SS01	TITUS	350PS	GRILLE	CEILING	RE. PLANS FOR NECK SIZE	—	—	A, D, G

NOTES:

- NECK SIZE SHOWN ON DRAWINGS.
- 4-WAY THURST PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.
- BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
- BRAND SHALL BE IDENTICAL TO BRAND SHOWN ON DRAWINGS. BRANDS MUST MATCH LEAD COLOR.
- PROVIDE NECK FOR DUCT CONNECTION.
- FRAME TYPE TO MATCH CEILING CONSTRUCTION. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- ALUMINUM CONSTRUCTION.
- PROVIDE PLASTER FRAME FOR MOUNTING IN GYP-BOARD CEILING WHEN REQUIRED.
- NECK SIZE INDICATES TYPE 1 FOR SURFACE MOUNTING.

MARK	MANUFACTURER	MODEL	SUPPLY FAN			RETURN COIL			HEATING COIL			COOLING COIL			DISC. TYPE			V/FHZ	MCA	MOP	WEIGHT	NOTES
			CFM	SPR. IN	ESP. (IN)	MIN. OUP. (INP)	HUM. INP. (INP)	WAT. (INP)	WAT. EFF.	MODEL	CFM	WAT. (INP)	WAT. EFF.	MODEL	CFM	WAT. (INP)	WAT. EFF.					
FOU-2	TRANE	TUD1C10D06601A	1,335	1/3	0.9	45.6	90.0	60.4	90.0	80	4XTPH053A3HHA	40.5	32.8	79.5/52.2	55.0/53.3	180	NF	120/1	13.4	15	174	A ~
FOU-3	TRANE	TUD1C10D06721A	1,900	3/4	0.9	59.3	100.0	63.3	90.0	80	4XTPH053A3HHA	57.2	50.5	82.7/52.2	56.0/56.0	190	NF	120/1	13.1	15	205	A ~
FOU-4	TRANE	TUD1C10D06601A	1,335	1/3	0.9	45.6	90.0	59.9	90.0	80	4XTPH053A3HHA	44.0	36.9	82.4/55.0	56.0/54.6	225	NF	120/1	10.4	15	174	A ~
FOU-5	TRANE	TUD1C10D06601A	1,575	1/2	0.9	56.7	100.0	55.6	90.0	80	4XTPH053A3HHA	58.7	39.7	82.1/68.8	56.0/56.0	450	NF	120/1	12.8	15	163	A ~
FOU-6	TRANE	TUD1C10D06601A	1,575	1/2	0.9	56.2	100.0	60.8	90.0	80	4XTPH053A3HHA	58.5	48.9	80.8/63.8	53.0/51.2	235	NF	120/1	12.8	15	193	A ~
FOU-7	TRANE	TUD1A05D06361A	630	1/3	0.9	24.4	60.0	54.1	90.0	80	4XTPH054A3HHA	28.4	21.8	85.3/66.8	54.0/52.0	175	NF	120/1	9	15	153	A ~

NOTES:

- EQUIPMENT COMPONENTS SHALL BE BY THE SAME MANUFACTURER.
- EQUIPMENT SIZED FOR 100°F AMBIENT TEMPERATURE.
- PROVIDE 1" SOLE PLATED RETURN/AIR FILTERS.
- SPECIFY FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TOURNACE UNIT INCLUDING LOSSES ASSOCIATED WITH PLAT COIL SECTION AND FILTER. FILTER LOSS IS AT MAXIMUM 400 FPM.
- PROVIDE 16" RETURN AIR CONDUIT IN HORIZONTAL CONFIGURATION.
- PROVIDE WITH COMBUSTION ASSIST FAN.
- PROVIDE WITH 7-SECT PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF AIR/HEAT HEATING AND COOLING CONTROLS.
- DIVISION 16 CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN RETURN AIR DUCT.
- PROVIDE PLUMBING SMALL PLUMBING DISCONNECT SWITCH.
- STARTER FURNISHED BY DIVISION 16 CONTRACTOR.
- PROVIDE TO TEST TO OR EXCEED SCHEDULED MINIMUM MINH INPUT. MINHUAL INPUT IS BASED ON LISTED MANUFACTURERS STANDARD PRODUCT.
- COORDINATE EQUIPMENT CO LOAD WITH PLUMBING CONTRACTOR IF DIFFERENT FROM THAT SCHEDULED.

MARK	SERVICE	MANUFACTURER	MODEL	REFR. TYPE	TH (MMH)	SH (MMH)	MR. L. OF. BOARDS	SEER	MCA	MOOP	V/PH	SBSZ TYPE	STARTER TYPE	WEIGHT (LBS)	NOTES
CU-2	FCU-2	TRANE	4T7A30D4M4	R-410A	40.5	32.8	8	13.25	9	15	480/3	NF	ATL	269	A
CU-3	FCU-3	TRANE	4T7A30D4M4	R-410A	57.2	50.5	1	13.25	10	15	480/3	NF	ATL	257	A
CU-4	FCU-4	TRANE	4T7A30D4M4	R-410A	44.0	36.9	1	13.25	9	15	480/3	NF	ATL	269	A
CU-5	FCU-5	TRANE	4T7A30D4M4	R-410A	58.7	50.5	1	13.25	10	15	480/3	NF	ATL	257	A
CU-6	FCU-6	TRANE	4T7A30D4M4	R-410A	55.9	48.9	1	13.25	10	15	480/3	NF	ATL	257	A
CU-7	FCU-7	TRANE	4T7A30D4M4	R-410A	58.4	21.8	1	13.25	5	15	480/3	NF	ATL	197	A

NOTES:

- PROVIDE LOW AMBIENT CONTROL TO 40° F.
- EQUIPMENT SIZED FOR 100° F AMBIENT TEMPERATURE.
- COORDINATE WITH THE MANUFACTURER THE HORIZONTAL AND VERTICAL REFRIGERANT PIPE ROUTING TO DETERMINE PIPE SIZES FOR THE REFRIGERANT PIPING. MANUFACTURER SHALL PROVIDE DETAILED REFRIGERANT PIPING DIAGRAMS INCLUDING DIMENSIONAL DATA FOR ALL REFRIGERANT PIPING DEVICES. THE MANUFACTURER SHALL SIZE AND LOCATE ALL REFRIGERANT REFRIGERANT TRANS BASED ON THE ACTUAL ROUTING AND MANUFACTURER'S RECOMMENDATIONS TO PROVIDE A FULLY FUNCTIONAL AND OPERATIONAL SYSTEM.
- COORDINATE WITH THE MANUFACTURER LOCATIONS FOR ALL REFRIGERANT PIPING DEVICES TO MAINTAIN SERVICEABILITY AND ACCESSIBILITY.
- PROVIDE A LINE FILTER DRYER AND SIGHT GLASS.
- PROVIDE CONCRETE, INSULATED/KEEPING PAD PER SPECIFICATIONS.
- DISCONNECT SWITCH FURNISHED BY SUBMITTER 18 IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- STARTERS FOR ALL MOTORS SHALL BE FURNISHED INTEGRAL WITH UNIT.
- COORDINATE SIZE OF CONDUCTOR TERMINATION LOSS WITH CONDUCTOR SIZES SHOWN ON ELECTRICAL DRAWINGS.
- PROVIDE MANUFACTURER'S LONG LINE ACCESSORY KIT WHEN REQUIRED.

MARK	SERVICE (EA, PA, SA)	MANUFACTURER	COUNTING	MODEL	QFM	ESP	DRIVE (BOLT/ROD)	MNR.	INR.	WEIGHT (LBS)	1/2PH	ELECTRICAL REQS.	SEMI-TECH COMBINATION	NOTES
EF-1	EA	GREENHECK	INLNE	B50-100	880	1.61	BELT/2ROD	1/4	1,438	33	120/1	MF	COMBINATION	A - C
EF-2	EA	GREENHECK	INLNE	B50-200	3,500	0.25	BELT	1/2	738	314	208/3	MF	COMBINATION	A - D
EF-3	EA	GREENHECK	INLNE	B50-300	3,500	0.25	BELT	1/2	738	314	208/3	MF	COMBINATION	A - D
EF-1	GREENHECK AIR	GREENHECK	INLNE	B50-300	300	0.25	BELT	1/4	1,041	79	120/3	MF	COMBINATION	A, B, C, E

NOTES:

PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.

DIVISION 16 CONTRACTOR TO FURNISH DISCONNECT SWITCH. IF ANY ONE OF THE TURBINES IS IN REPAIR, NO LOAD.

DIVISION 16 CONTRACTOR TO FURNISH STRAIGHTER. IF ANY ONE OF THE TURBINES IS IN REPAIR, NO LOAD.

PROVIDE A SINGLE THERMOSTAT TO CYCLE INTERLOCKED FANS ON/OFF TO MAINTAIN SPACE TEMPERATURE OF 80 DEGREES F.

PROVIDE FAN OPERATORS AND MOTORIZED DAMPERS. OPEN THE MOTORIZED DAMPER AND ENERGIZE THE SUPPLY FAN.

MARK	MANUFACTURER	MODEL	REFR. TYPE	EVAPORATOR SECTION				CONDENSING SECTION			NOTES	
				CFM	ICE (TSS)	ICE (TSS)	V/PH	MCA / MOCP	AMB (TSS)	V/PH		MCA / MOCP
FCU-1/FCU-1	MITSUBISHI	PLA-412/P/12	410A	330	12.5	75/82	208/1	1/15	105	208/1	11/15	A = F

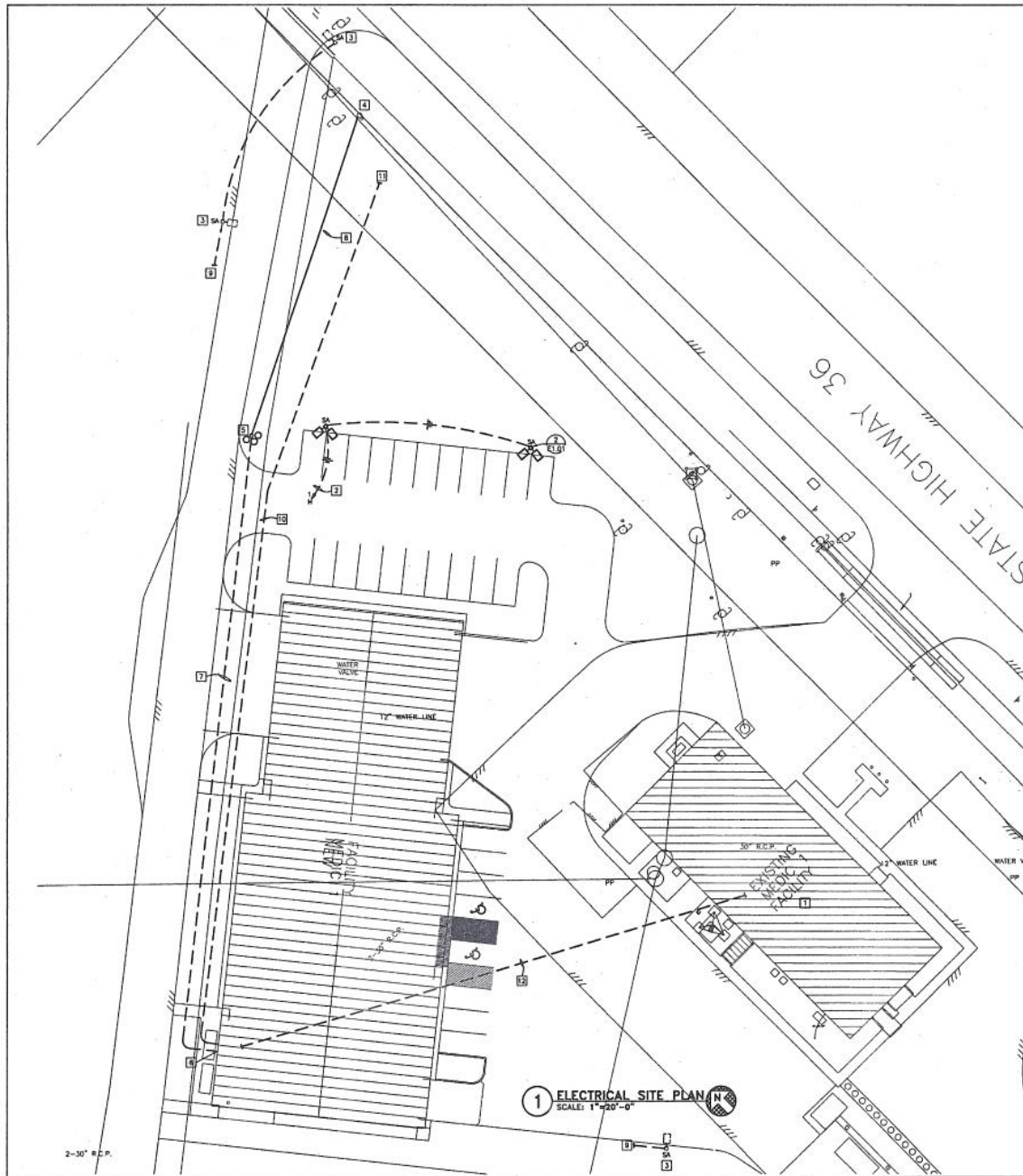
NOTES:

- CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL 1/2" MIN. MANIFOLD INSULATION.
- DIVISION 18 CONTRACTOR TO PROVIDE SEPARATE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.
- PROVIDE WITH WALL MOUNTED THERMOSTAT BY UNIT MANUFACTURER.
- PROVIDE WITH INTEGRAL CONDENSATE PUMP.
- PROVIDE CLEANABLE FOAM AIR FILTER.
- ICE COILING RECESSED-TYPE UNIT WITH PROGRAMMABLE THERMOSTAT FOR 24-HR AIR CONDITIONING.

EXHAUST EQUIPMENT	AREA/EQUIPMENT SERVED			EXHAUST (CFM)	TOTALS (CFM)
EF-1	TOILET EXHAUST			890	890
OUTDOOR AIR EQUIPMENT	AREA/EQUIPMENT SERVED	SUPPLY AIR (CFM)	DESIGN OA (CFM)	PERCENT OA/TA	
FCU-2	GENERAL	1,335	160	13.4%	
FCU-3	GENERAL	1,900	150	7.3%	
FCU-4	GENERAL	1,335	225	16.9%	
FCU-5	GENERAL	1,575	450	28.6%	
FCU-6	GENERAL	1,575	235	14.9%	
FCU-7	GENERAL	830	175	27.8%	
TOTAL AIRFLOW		8,350	1,415	16.9%	1,415
			TOTAL POSITIVE AIR FLOW		925
			PERCENT POSITIVE AIR FLOW		37.3%

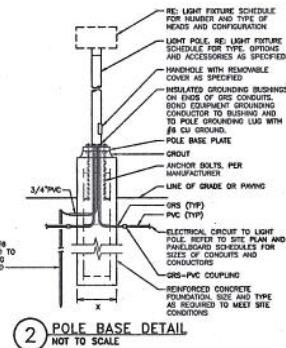
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DETAIL IS PRESENTED TO SHOW RELATIONSHIP BETWEEN THE CONDUIT AND FOUNDATION. REFERENCE CALL OR STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

3/4" X 8" DRIVEN GROUND ROD WITH #6 CU. GROUND BONDING TO POLE GROUNDING LUG AND TO GROUND ROD



GENERAL NOTES:

1. PROVIDE ALL TRENCHING, BACKFILLING, AND CONDUIT FROM THE UTILITY COMPANY POWER SOURCE TO THE SERVICE ENTRANCE.
2. ALL UNDERGROUND CONDUIT SHALL HAVE LONG RADIUS ELBOWS.
3. REFER TO ARCHITECTURAL PLANS FOR EXACT LIGHT FIXTURE LOCATIONS.
4. CONTACT THE LOCAL UTILITY COMPANY AND ARRANGE FOR SERVICE AS INDICATED ON DRAWINGS. INCLUDE ALL COSTS, CHARGES, FEES, ETC. REQUIRED BY LOCAL UTILITY IN THE PROVIDE ALL MATERIALS AS REQUIRED BY LOCAL UTILITY FOR ELECTRICAL SERVICE INSTALLATION. ALL WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF LOCAL AUTHORITIES. CONTACT FOR ELECTRICAL UTILITY SERVICE IS OWNERS SERVICE CENTER/POWER ENERGY AT (281) 341-3249 (OFFICE).
5. PRIOR TO SUBMITTING A BID, AND TO OBTAIN THE COST OF SUCH WORK, CONTACT THE TELEPHONE AND CABLE TELEVISION COMPANIES AND COORDINATE THE EXACT LOCATION ON THE SITE FOR TERMINATION OF UNDERGROUND PROVISIONAL CONDUITS FOR COMMUNICATIONS (TELEPHONE) AND TELEVISION CABLE. COORDINATE EXACT ROUTING OF THE PROVISIONAL CONDUITS WITH OTHER UTILITIES AND WORK ASSOCIATED WITH THE SITE. OBTAIN FROM THE UTILITY COMPANY, IN WRITING, SPECIFICATIONS AND DETAILED REQUIREMENTS OF THE PROVISIONAL, INCLUDING BUT NOT LIMITED TO, ADDITIONAL PULL BOX SPECIFICATIONS, ROUTING LIMITATIONS, ETC. SO THAT ALL REQUIRED PROVISIONS OF THE UTILITY COMPANY ARE PROVIDED UNDER THIS CONTRACT.

ELECTRICAL PLAN NOTES:

1. EXISTING MEDIC FACILITY TO REMAIN.
2. ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL, 150V. CIRCUIT SHALL BE CONTROLLED BY PHOTOCELL ON/PHOTOCELL OFF. REFER TO SHEET E3.02 FOR FURTHER INFORMATION.
3. THIS FUTURE IS SHOWN AS AN ADDITIONAL ALTERNATE FOR THE SITE LIGHTING PACKAGE.
4. LOCATION OF EXISTING CENTERPOINT ENERGY POWER POLE AND OVERHEAD LINE. EXTEND OVERHEAD POWER TO NEW POWER POLE ON FORT BEND COUNTY MEDIC FACILITY PROPERTY.
5. LOCATION OF NEW CENTERPOINT ENERGY POWER POLE WITH (3) 100KVA TRANSFORMERS. PROVIDE WEATHER HEAD, WIRE, AND CONDUIT UP POLE TO SERVICE TRANSFORMERS. REFER TO DETAIL 1 ON SHEET E3.01 FOR FURTHER INFORMATION.
6. LOCATION OF CENTERPOINT ENERGY METER CAN, MAIN DISCONNECT SWITCH, AND DOUBLE THRU TRANSFER SWITCH.
7. UNDERGROUND SECONDARY CONDUITS AND CONDUCTORS FOR NEW 400A ELECTRICAL SERVICE. PROVIDE METALLIZED WARNING TAPE 1'-0" ABOVE BURIED CONDUITS. INSTALL CONDUITS UNDER PAVED SURFACES ACCORDING TO CENTERPOINT ENERGY STANDARDS.
8. NEW OVERHEAD POWER LINE PROVIDED BY CENTERPOINT ENERGY.
9. ROUTE CONDUIT WITH PULLSTRING BACK TO ELECTRICAL 120 FOR POWER AND CONTROLS TO FUTURE SITE LIGHT FIXTURE.
10. PROVIDE (3) 3" CONDUITS (TELEPHONE AND SPARE) STUDDED INTO SERVER 118 IN FRONT OF THE TELEPHONE BACKSHEET. PROVIDE METALLIZED WARNING TAPE 1'-0" ABOVE BURIED CONDUITS.
11. ROUTE CONDUITS TO EXISTING TELEPHONE POLE FOR NEW TELEPHONE/DATA SERVICE.
12. PROVIDE (3) 3" CONDUITS BETWEEN SERVER 118 IN THE NEW FACILITY AND THE EXISTING SERVER ROOM IN THE EXISTING MEDIC FACILITY.

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ARCHITECTS
3701 Kirby, Suite 1100
Houston, Texas 77008
(713) 621-7581
(713) 623-6258 (fax)
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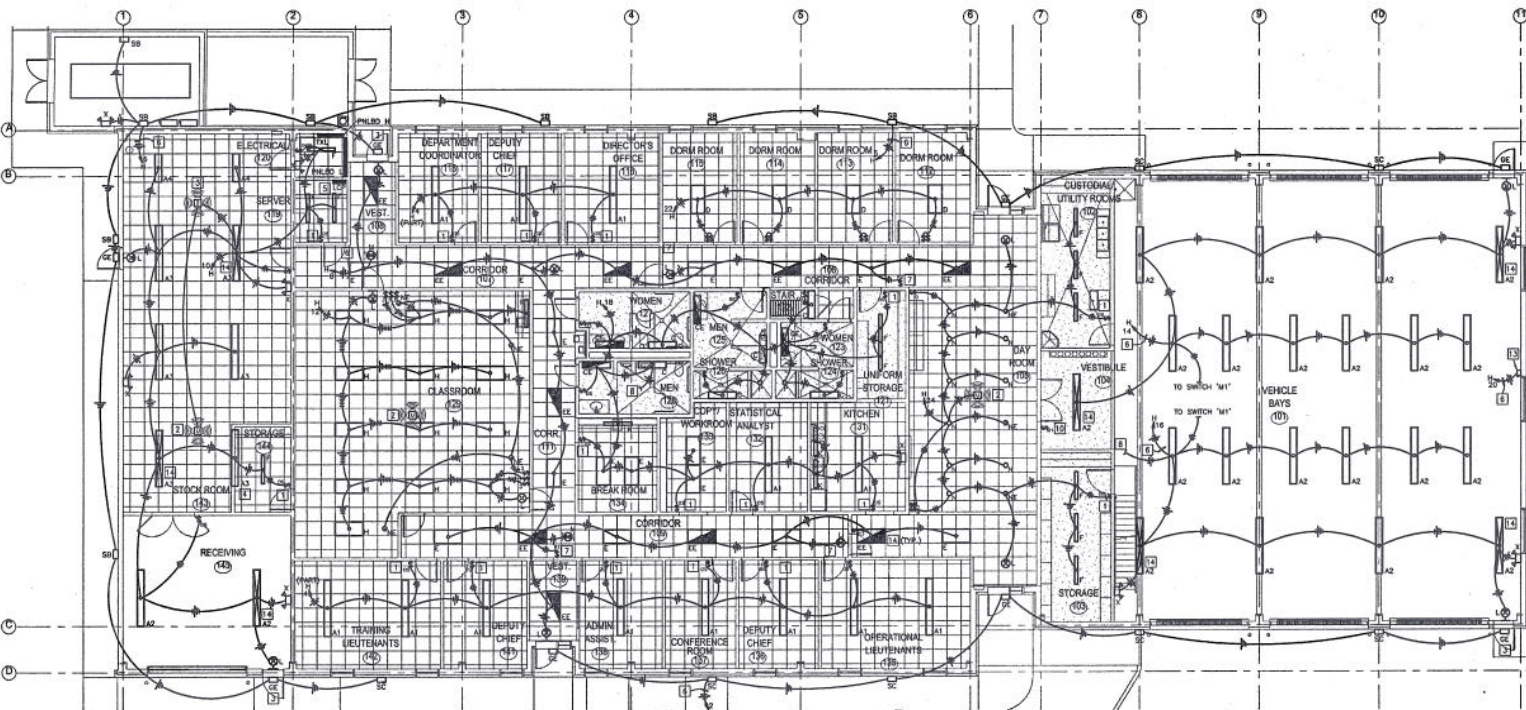
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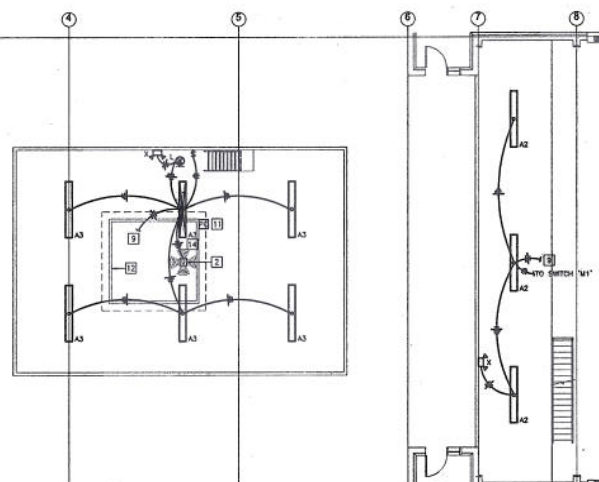
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1 ELECTRICAL LIGHTING PLAN
SCALE: 1/8"=1'-0"



2 ELECTRICAL MEZZANINE LIGHTING PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL PLAN NOTES:

- 1 PROVIDE COOPER CONTROLS "ONE-P-0481-8M-W" WALL-MOUNTED OCCUPANCY SENSOR OR APPROVED EQUAL FOR CONTROL OF ROOM LIGHTING.
- 2 PROVIDE COOPER CONTROLS "TWO-01-0101-1" CEILING-MOUNTED OCCUPANCY SENSOR AND ALL NECESSARY ACCESSORIES, OR APPROVED EQUAL, FOR CONTROL OF ROOM LIGHTING.
- 3 MOUNT EXTERIOR LIGHT FIXTURE AT DOUBLE SOLIDER COURSE AT THE WINDOW HEAD HEIGHT, TYPICAL. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- 4 STORAGE AREA LOCATED ABOVE STORAGE 144 IN STOCK ROOM 143. REFER TO SHEET 1 AND SCHEDULES ON SHEET E3.02 FOR FURTHER INFORMATION.
- 5 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL "LCP". CIRCUIT SHALL BE CONTROLLED BY PHOTOCELL ON PHOTOCELL OFF. REFER TO SHEET E3.02 FOR FURTHER INFORMATION.
- 6 PROVIDE LOW VOLTAGE "SIGMA 1" SWITCH FOR CONTROL OF AREA LIGHTING. REFER TO SHEET E3.02 FOR FURTHER INFORMATION.
- 7 REFER TO DETAIL 2, THIS SHEET, FOR CONTINUATION OF CIRCUIT.
- 8 REFER TO DETAIL 1, THIS SHEET, FOR CONTINUATION OF CIRCUIT.
- 9 PROVIDE LOW VOLTAGE "SIGMA 1" SWITCH FOR CONTROL OF VEHICLE BAY LIGHTING. REFER TO SHEET E3.02 FOR FURTHER INFORMATION.
- 10 PROVIDE PHOTOCELL ON NORTH FACE OF CLIPPOLA WITH AN UNOBSTRUCTED VIEW FOR CONTROL OF EXTERIOR SITE LIGHTING. COORDINATE LOCATION WITH MECHANICAL ENGINEER. REFER TO SHEET E3.02 FOR FURTHER INFORMATION.
- 11 OUTLINE OF CLIPPOLA ABOVE MEZZANINE.
- 12 PROVIDE 30/1 AMP DISCONNECT SWITCH FOR CONNECTION TO FUTURE EXTERIOR SERVICE.
- 13 PROVIDE NIGHT LIGHT OPERATION OF THIS FIXTURE BY INSTALLING WITH ONE BALLAST UNWITCHED.

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3701 Kirby, Suite 1166
Houston, Texas 77098
(713) 621-7561
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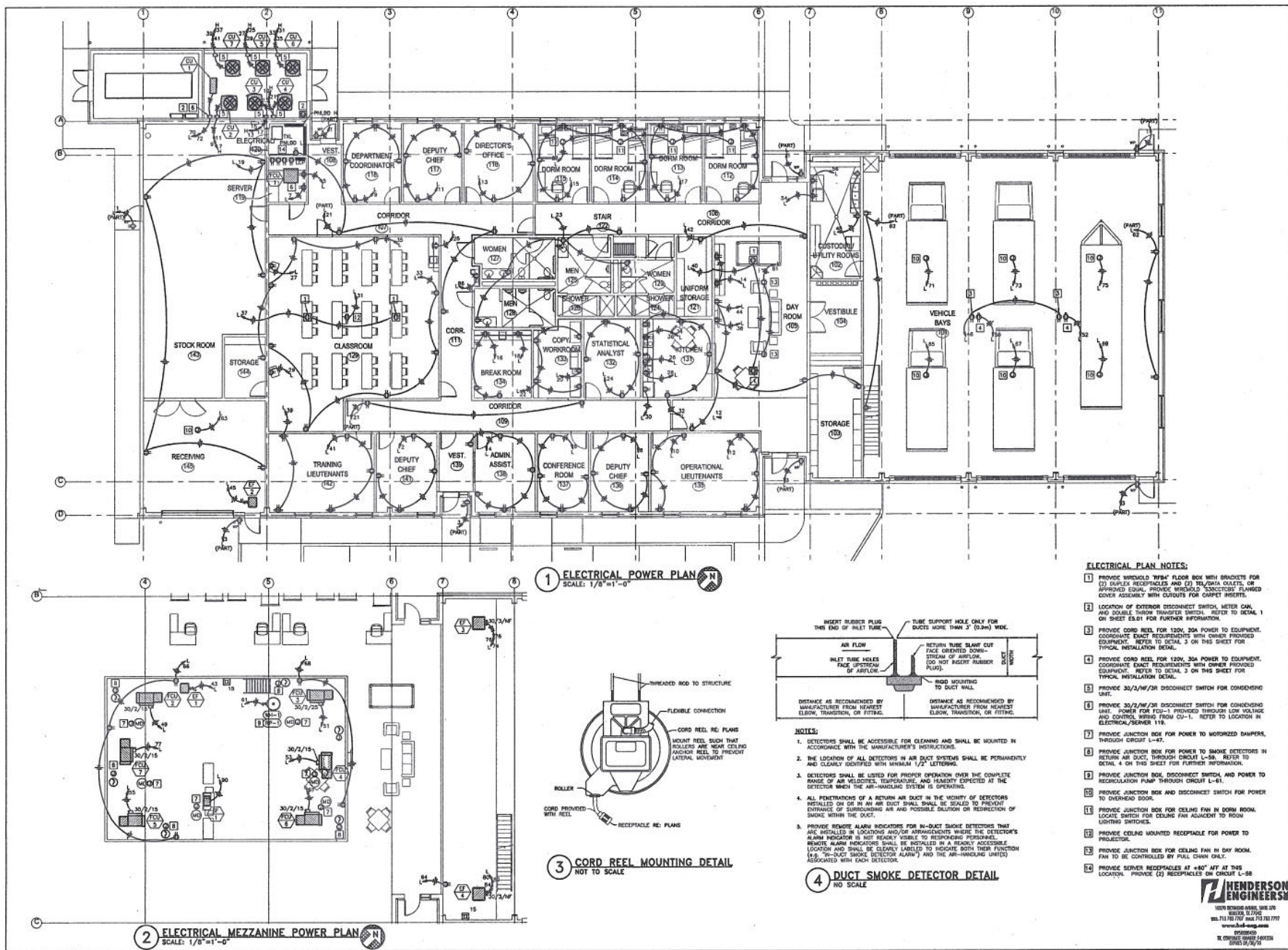
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TEL: 714 753 7700 FAX: 714 753 7707
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ELECTRICAL PLAN NOTES:

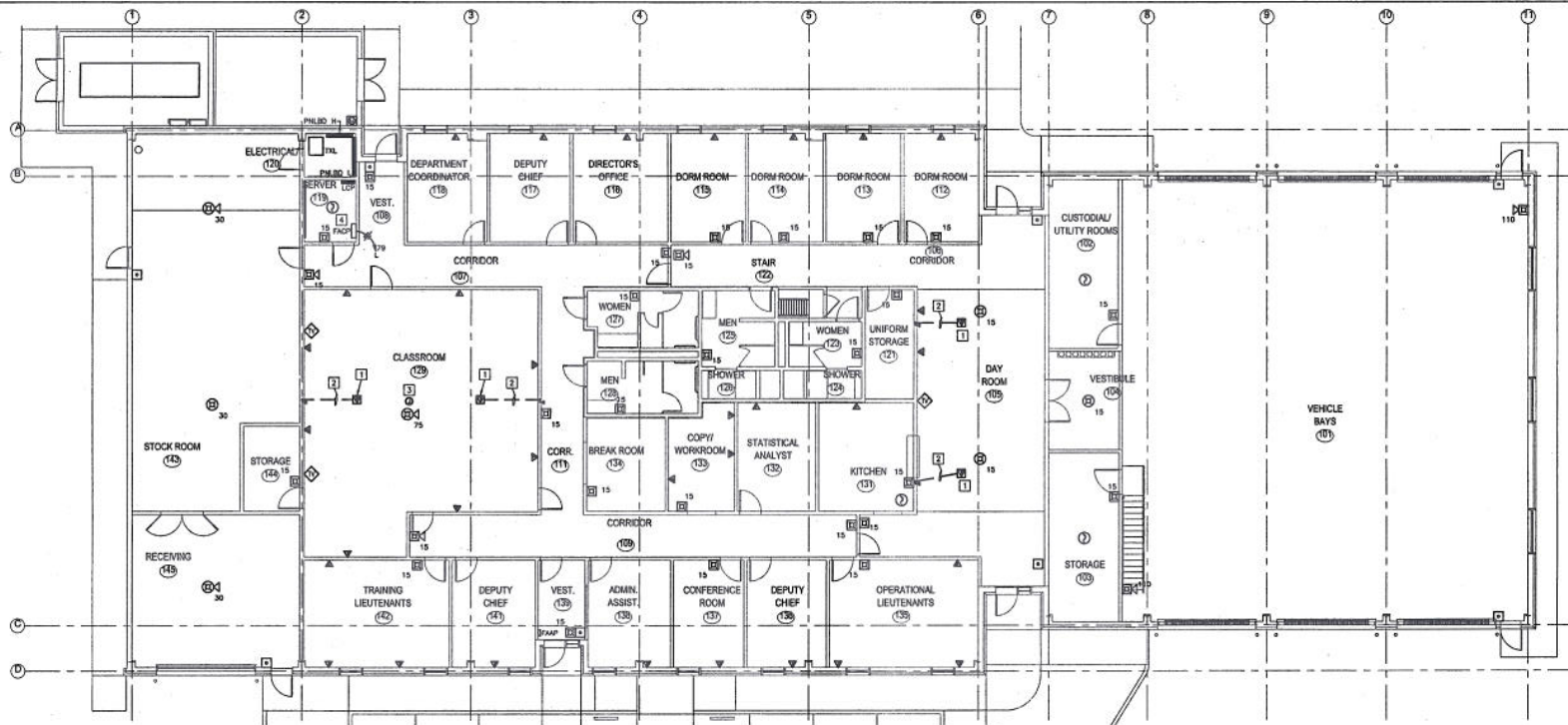
1. PROVIDE RECESSED 2"X6" FLOOR BOIS WITH BRACKETS FOR (3) EXHAUST RECEPTACLES AND (2) TR/SLATA OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE 1"X6" CHANGED CORNER ASSEMBLY WITH CUTOUTS FOR CARPET INSTALL.
2. LOCATION OF EXTERIOR DISCONNECT SWITCH, METER, CAN, AND CORD THROUGH EXTERIOR WALL TO DETAIL 1 ON SHEET E-01 FOR FURTHER INFORMATION.
3. PROVIDE CORD REEL FOR 120V, 20A POWER TO EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH OWNER PROVIDED EQUIPMENT. REFER TO DETAIL 3 ON THIS SHEET FOR TYPICAL INSTALLATION DETAIL.
4. PROVIDE CORD REEL FOR 120V, 30A POWER TO EQUIPMENT. COORDINATE EXACT REQUIREMENTS WITH OWNER PROVIDED EQUIPMENT. REFER TO DETAIL 3 ON THIS SHEET FOR TYPICAL INSTALLATION DETAIL.
5. PROVIDE 30/2/3-W/3" DISCONNECT SWITCH FOR CONDENSING UNIT.
6. PROVIDE 30/2/3-W/3" DISCONNECT SWITCH FOR CONDENSING UNIT. POWER FOR FCU-1 PROVIDED THROUGH LOW VOLTAGE ELECTRICAL RISING MAINS TO FCU-1. REFER TO LOCATION IN ELECTRICAL/SERVEN 119.
7. PROVIDE JUNCTION BOX FOR POWER TO DETECTORS DAMPERS, THROUGH EXTERIOR WALL TO DETAIL 1 ON SHEET E-01.
8. PROVIDE JUNCTION BOX, DISCONNECT SWITCH, AND POWER TO RECYCULATING PUMP THROUGH DETAIL 1 ON SHEET E-01.
9. PROVIDE JUNCTION BOX AND DISCONNECT SWITCH FOR POWER TO OVERHEAD DROOP.
10. PROVIDE JUNCTION BOX FOR CEILING FAN IN DORM ROOM. LEAD TO DETAIL 1 ON SHEET E-01 FOR FURTHER INFORMATION.
11. PROVIDE JUNCTION BOX FOR CEILING FAN ADJUSTED TO ROOM LIGHTING SWITCHES.
12. PROVIDE CEILING MOUNTED RECEPTACLE FOR POWER TO DETECTOR.
13. PROVIDE JUNCTION BOX FOR CEILING FAN IN DAY ROOM. FAN TO BE CONTROLLED BY PULL CHAIN ONLY.
14. PROVIDE SEVEN RECEPTACLES AT +60" AFF ONLY AT THIS LOCATION. PROVIDE (3) RECEPTACLES FOR POWER TO 58

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1 ELECTRICAL SPECIAL SYSTEMS PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL PLAN NOTES:

- 1 PROVIDE WIREWOUND "WEM" FLOOR BOX WITH BRACKETS FOR (1) DUPLEX RECEPTACLES AND (2) TEL/DATA OUTLETS, OR APPROVED EQUAL. PROVIDE WIREWOUND "SLOTTED" PLANGED COVER ASSEMBLY WITH CUTOUTS FOR CARPET INSERTS.
- 2 STUB UP 3/4" CONDUITS INTO ACCESSIBLE CEILING SPACE FROM GUEST WALL.
- 3 PROVIDE JUNCTION BOX IN CEILING FOR DATA TO CEILING MOUNTED PROJECTOR.
- 4 REFER TO DETAIL 2 ON SHEET ES-02 FOR FURTHER INFORMATION.

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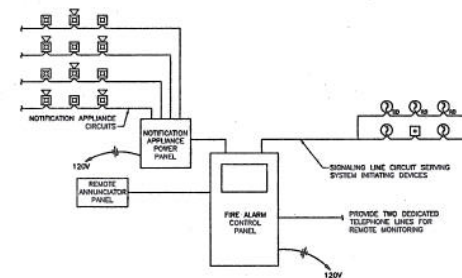
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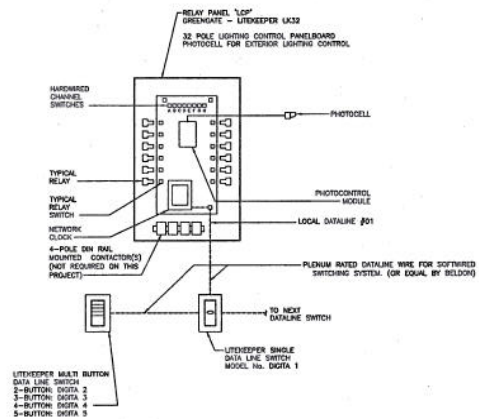
LITKEEPER-16 RELAY SCHEDULE			
Panel Name	LCP		
Location	SERVER 119		
Panel Capacity	16		
Installed Relays	16		
Installed Contacts	6		
Relay	Circuit	Load	Channel
1	RELAY 1	RELAY 1	1
2	RELAY 2	RELAY 2	2
3	RELAY 3	RELAY 3	3
4	RELAY 4	RELAY 4	4
5	RELAY 5	RELAY 5	5
6	RELAY 6	RELAY 6	6
7	RELAY 7	RELAY 7	7
8	RELAY 8	RELAY 8	8
9	RELAY 9	RELAY 9	9
10	RELAY 10	RELAY 10	10
11	RELAY 11	RELAY 11	11
12	RELAY 12	RELAY 12	12
13	RELAY 13	RELAY 13	13
14	RELAY 14	RELAY 14	14
15	RELAY 15	RELAY 15	15
16	RELAY 16	RELAY 16	16

Relay	Relay No.	Relay Controlled	Description	Lighting Group
1	RELAY 1	RELAY 1	VEHICLE BAY LIGHT	
2	RELAY 2	RELAY 2	VEHICLE BAY LIGHT	
3	RELAY 3	RELAY 3	VEHICLE BAY LIGHT	
4	RELAY 4	RELAY 4	VEHICLE BAY LIGHT	
5	RELAY 5	RELAY 5	VEHICLE BAY LIGHT	
6	RELAY 6	RELAY 6	VEHICLE BAY LIGHT	
7	RELAY 7	RELAY 7	VEHICLE BAY LIGHT	
8	RELAY 8	RELAY 8	VEHICLE BAY LIGHT	
9	RELAY 9	RELAY 9	VEHICLE BAY LIGHT	
10	RELAY 10	RELAY 10	VEHICLE BAY LIGHT	
11	RELAY 11	RELAY 11	VEHICLE BAY LIGHT	
12	RELAY 12	RELAY 12	VEHICLE BAY LIGHT	
13	RELAY 13	RELAY 13	VEHICLE BAY LIGHT	
14	RELAY 14	RELAY 14	VEHICLE BAY LIGHT	
15	RELAY 15	RELAY 15	VEHICLE BAY LIGHT	
16	RELAY 16	RELAY 16	VEHICLE BAY LIGHT	

CLOCK AUTOMATION SCHEMES			
Channel	Relay	Relay Controlled	Description
A	RELAY 1	RELAY 1	VEHICLE BAY LIGHT
B	RELAY 2	RELAY 2	VEHICLE BAY LIGHT
C	RELAY 3	RELAY 3	VEHICLE BAY LIGHT
D	RELAY 4	RELAY 4	VEHICLE BAY LIGHT
E	RELAY 5	RELAY 5	VEHICLE BAY LIGHT
F	RELAY 6	RELAY 6	VEHICLE BAY LIGHT
G	RELAY 7	RELAY 7	VEHICLE BAY LIGHT
H	RELAY 8	RELAY 8	VEHICLE BAY LIGHT



② FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM (NON-VOICE)
NOT TO SCALE



- LIGHTING CONTROL DIAGRAM GENERAL NOTES:**
- DATETIME SWITCHES MAY BE CONNECTED TO NEAREST DATETIME LOOP AND NEAREST PANEL. THEY DO NOT NEED TO BE CONNECTED TO THE SAME DATETIME LOOP ORIGINATING IN THE PANEL THAT HOSTS THE RELAY FOR THAT AREA.
 - ALL LIGHTING CONTROL SWITCHES AND COVER PLATES SHALL BE THE COLOR AS INDICATED IN THE SPECIFICATIONS.
 - CONTRACTOR SHALL INCLUDE IN BID PRICE FOR THE SUPPORT OF A LIGHTING CONTROL SYSTEM REPRESENTATIVE WHO WILL ALSO TRAVEL EMPLOYED IN PROGRAMMING.
 - PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO INSTALLATION.
 - REFER TO FLOOR PLANS FOR LOCATION OF DATETIME SWITCHES AND DATETIME SWITCH CONTROL SCHEDULE ON THIS SHEET FOR MULTI-BUTTON DATETIME SWITCH CONFIGURATIONS.

① LIGHTING CONTROL DIAGRAM - RELAY PANEL LCP
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3701 Kirby, Suite 1100
Houston, Texas 77008
(713) 821-7581
(713) 823-8208 (fax)
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ROSENBERG, TEXAS 77471

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3701 Kirby, Suite 1106
Houston, Texas 77056
(713) 621-7581
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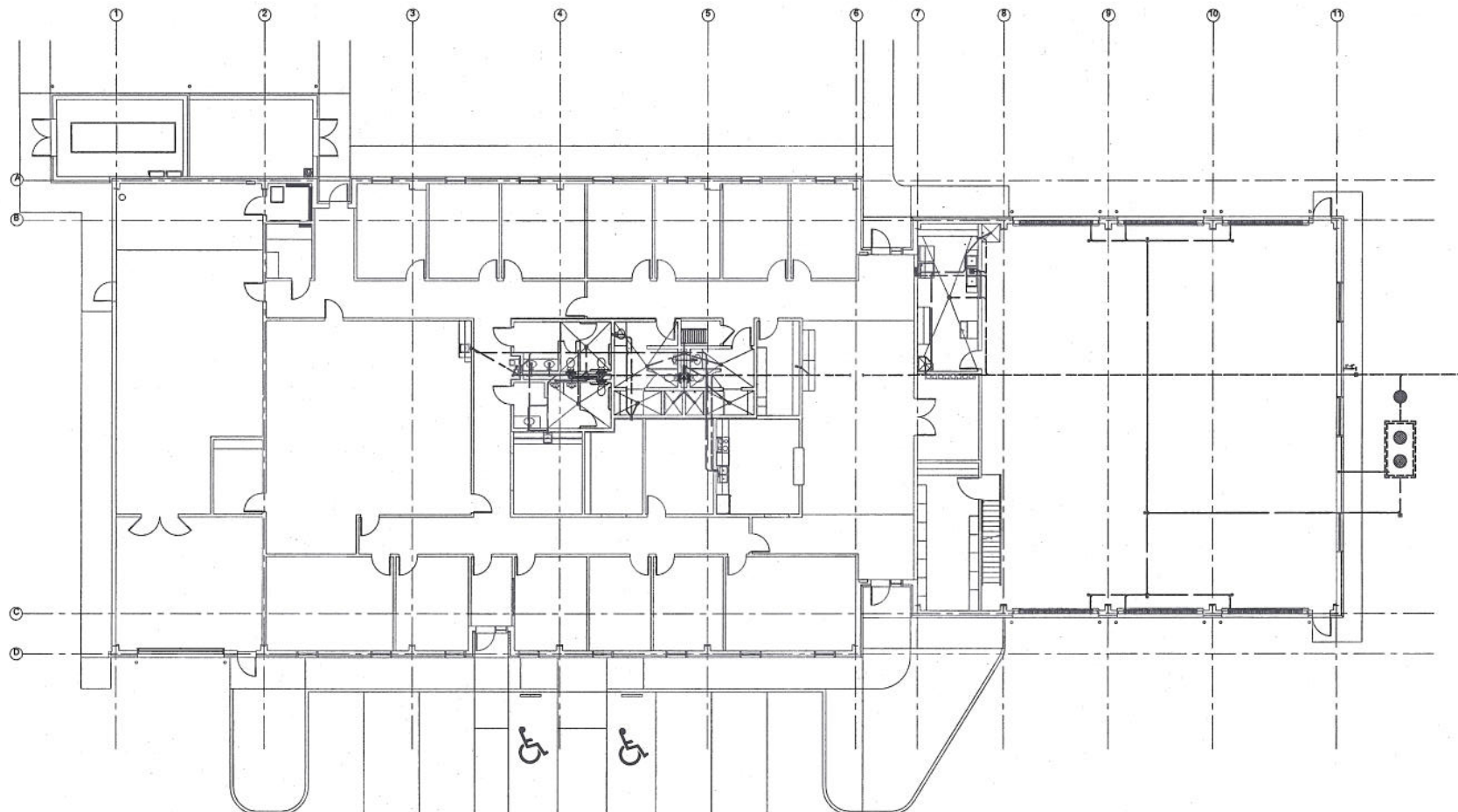
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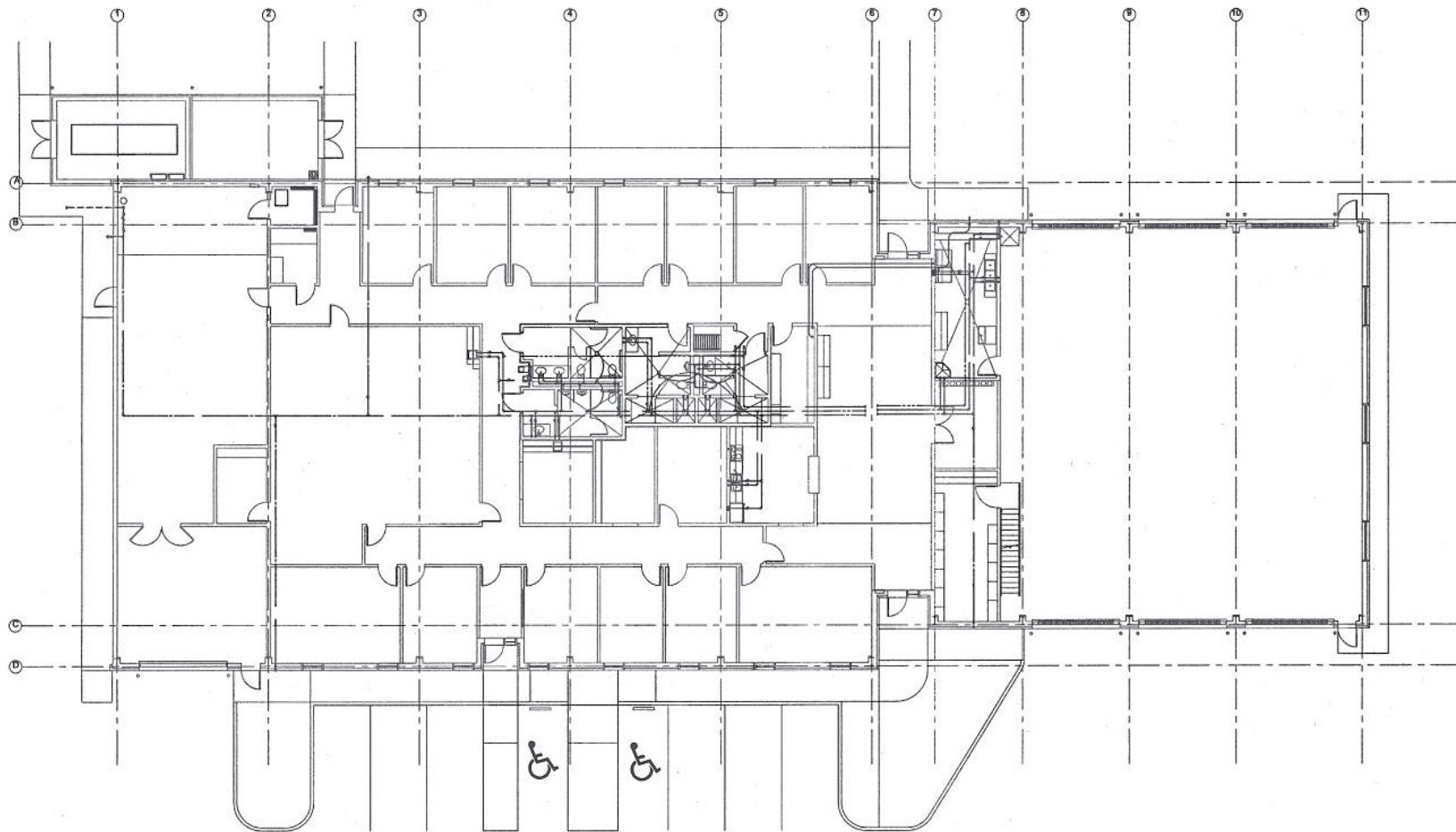
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1 PLUMBING SANITARY
SCALE: 1/8"=1'-0"

REFER TO P2.01A AND P2.01B FOR ENLARGED PLANS



1 PLUMBING WATER & GAS
SCALE: 1/8"=1'-0"

REFER TO P2.01A AND P2.02B FOR DIMENSIONED PLUMBING

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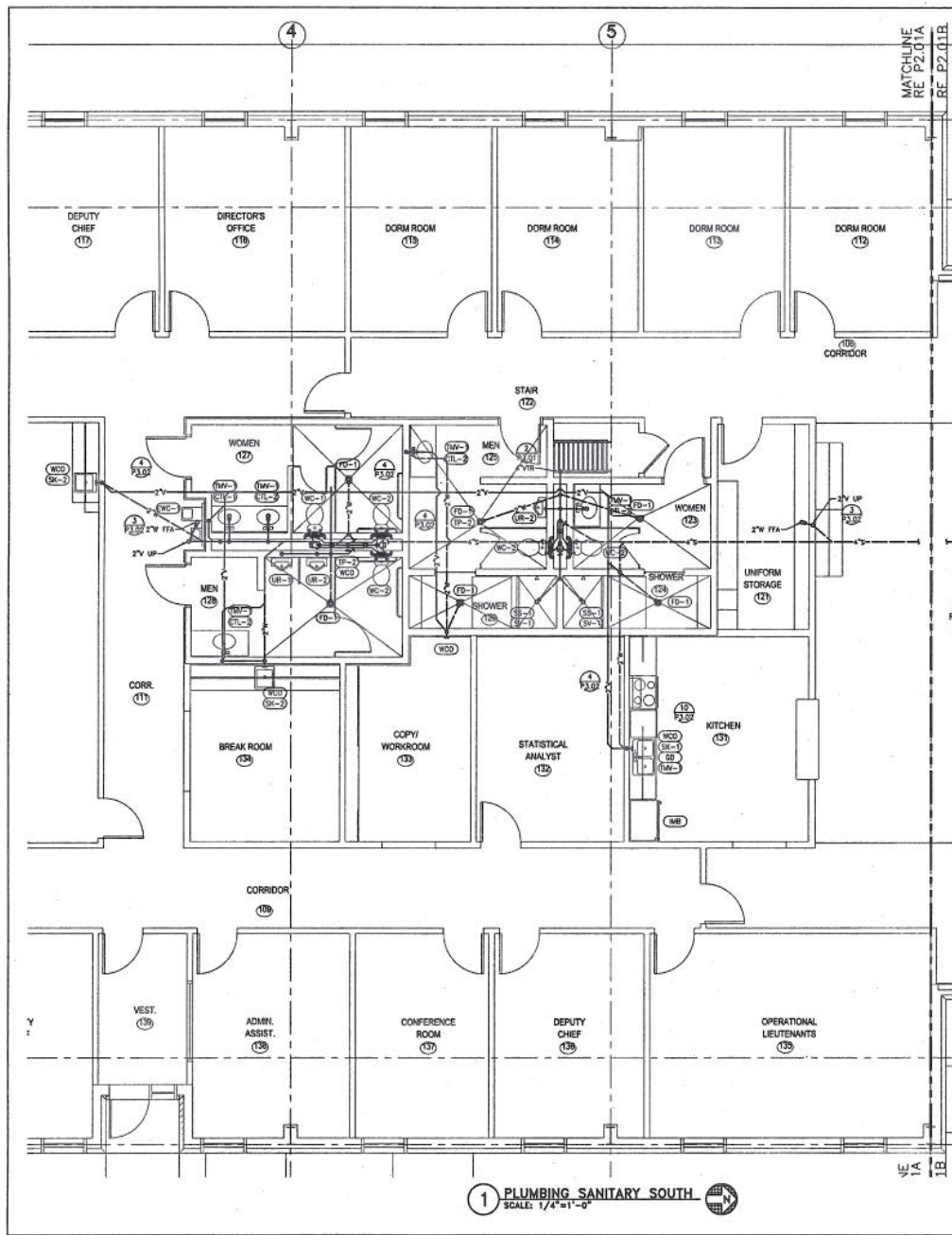
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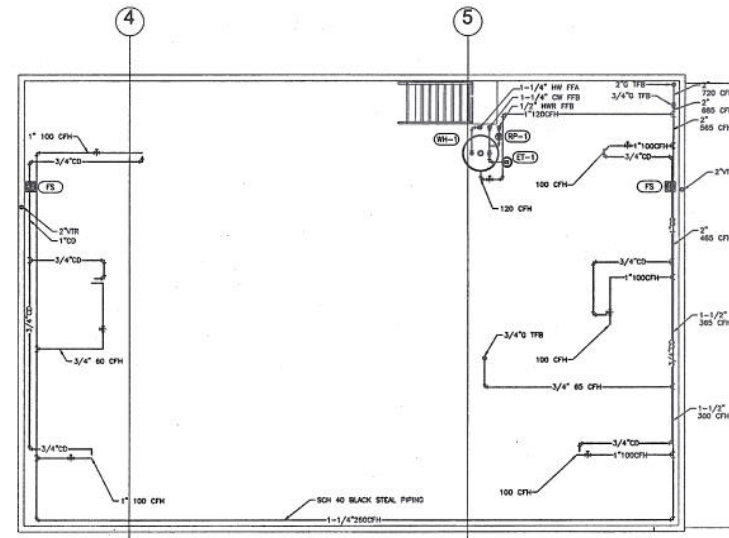
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DRAWING NO.:

P2.00B

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HBLA Project No. 05-09



1 PLUMBING SANITARY SOUTH
SCALE: 1/4"=1'-0"



2 PLUMBING MEZZANINE PLAN
SCALE: 1/4"=1'-0"

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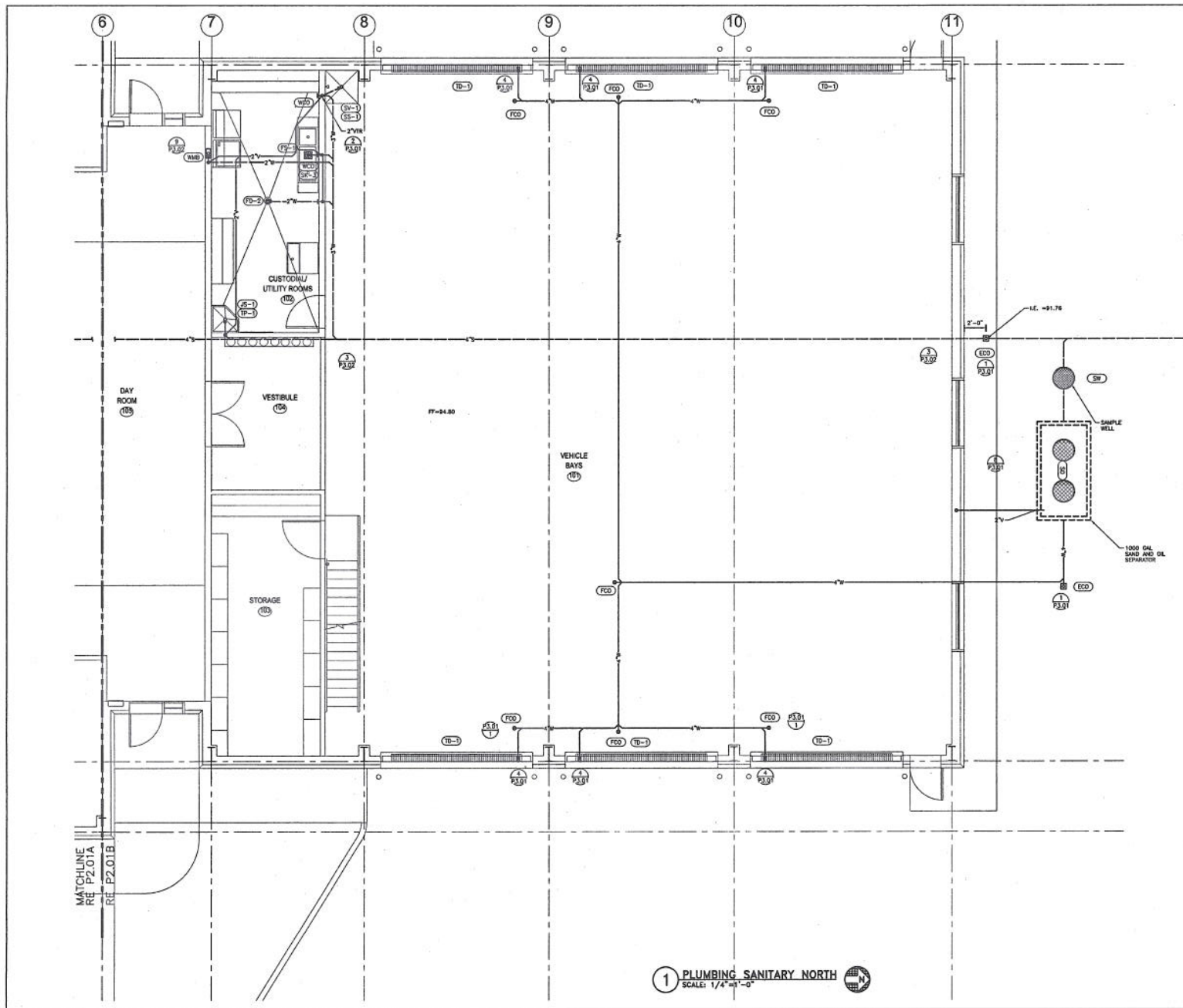
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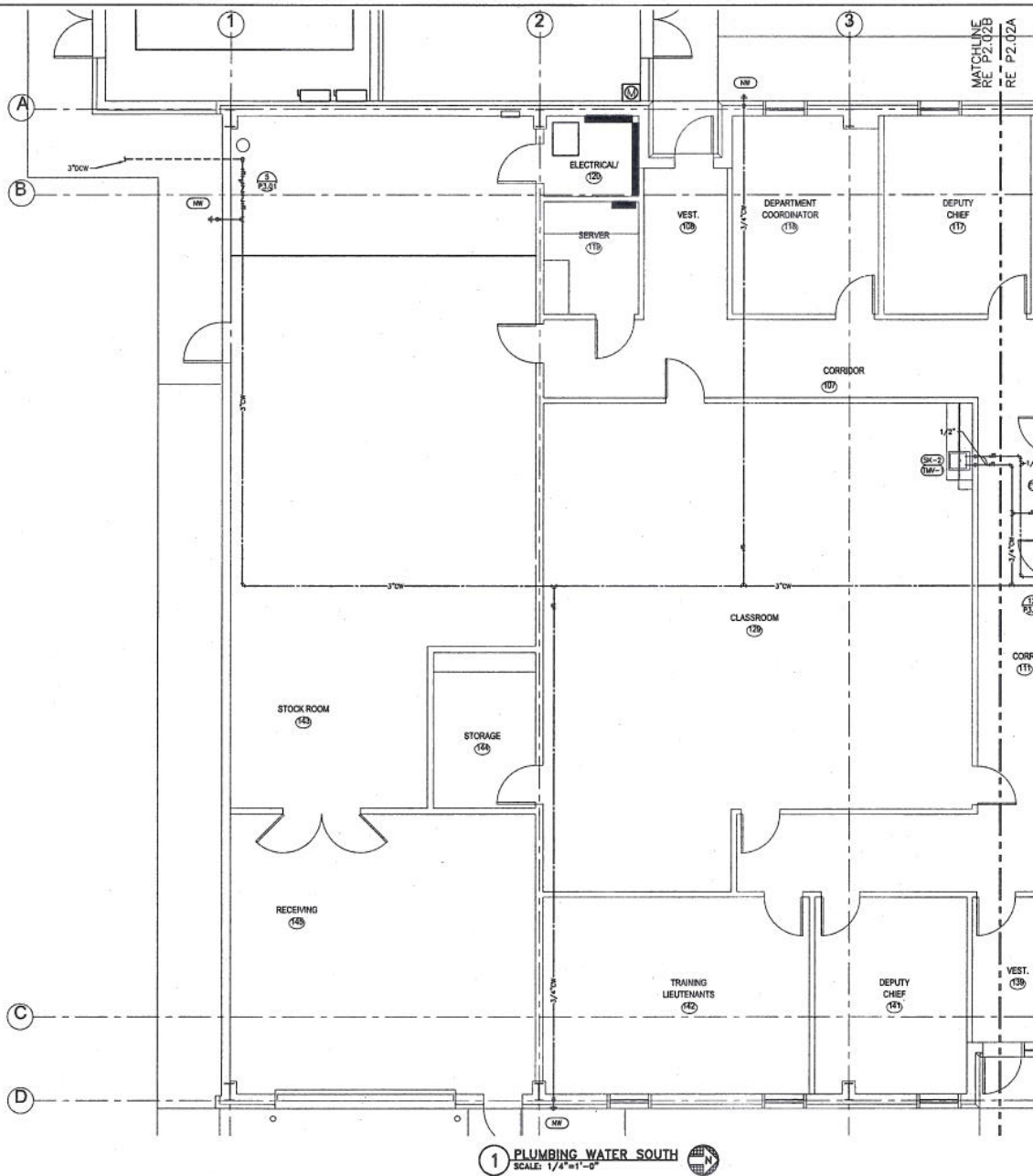
P2.01B



P2.02A

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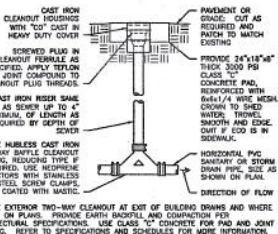
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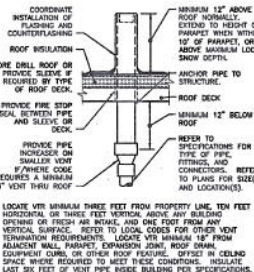
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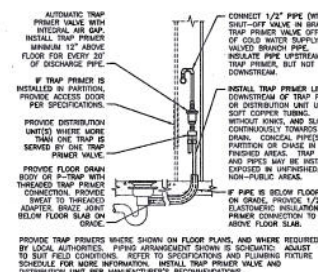
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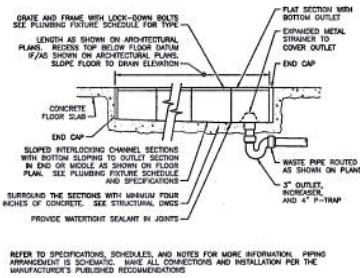
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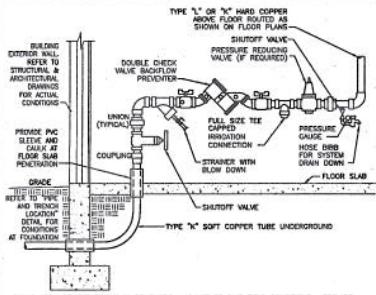
2 VENT THRU ROOF ('VTR')
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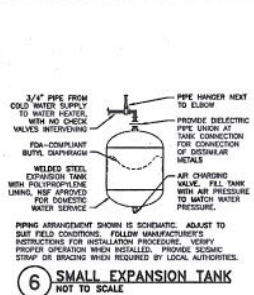
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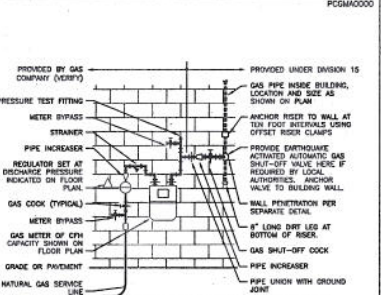
4 INTERIOR TRENCH DRAIN
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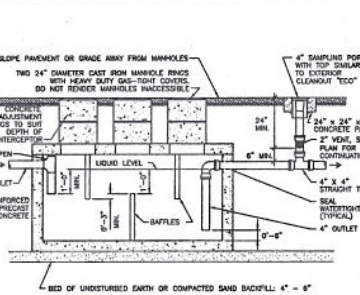
5 DOMESTIC WATER SERVICE ENTRY
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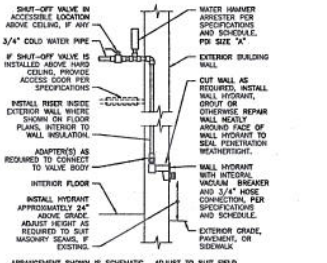
6 SMALL EXPANSION TANK
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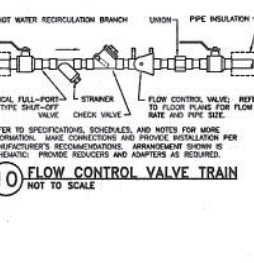
7 GAS METER SETTING
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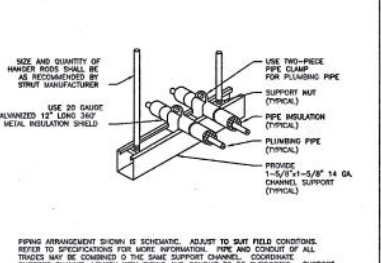
8 PRECAST CONCRETE SAND/OIL SEPARATOR
NOT TO SCALE



9 MILD CLIMATE WALL HYDRANT
NOT TO SCALE



10 FLOW CONTROL VALVE TRAIN
NOT TO SCALE



11 TRAPEZE PIPE HANGER
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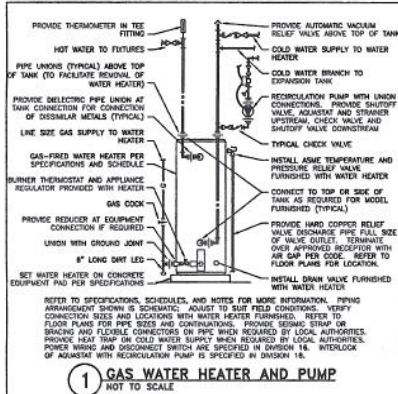
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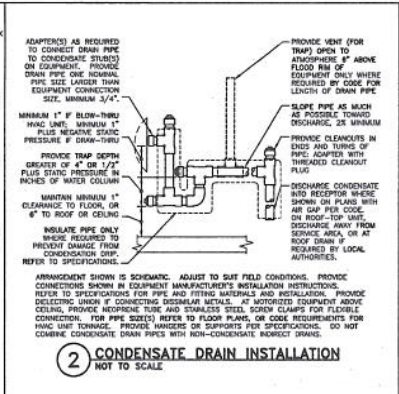


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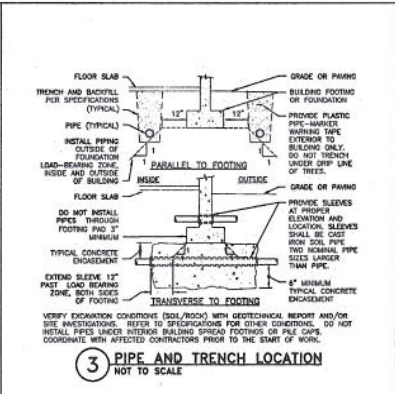
FORT BEND COUNTY MEDIC 1 FACILITY
HBLA Project No. 09-09



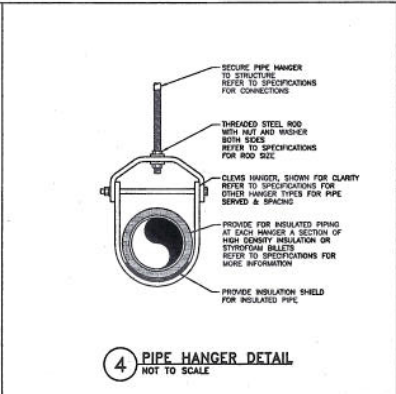
1 GAS WATER HEATER AND PUMP
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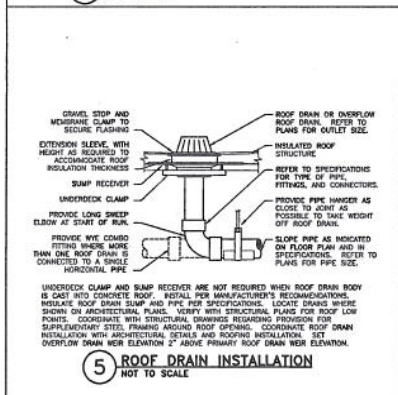
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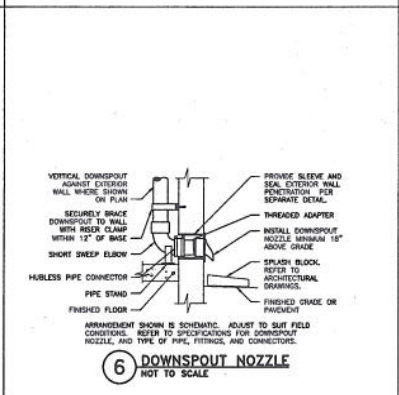
3 PIPE AND TRENCH LOCATION
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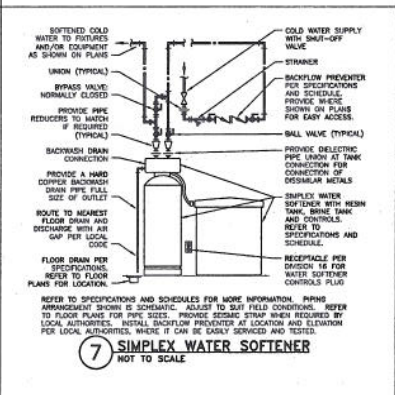
4 PIPE HANGER DETAIL
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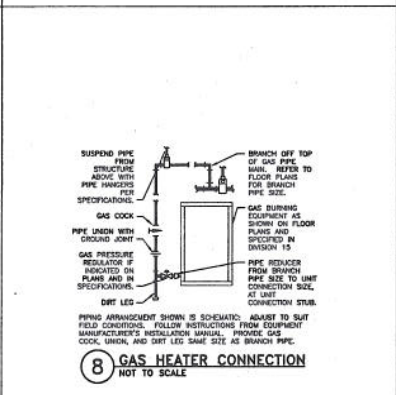
5 ROOF DRAIN INSTALLATION
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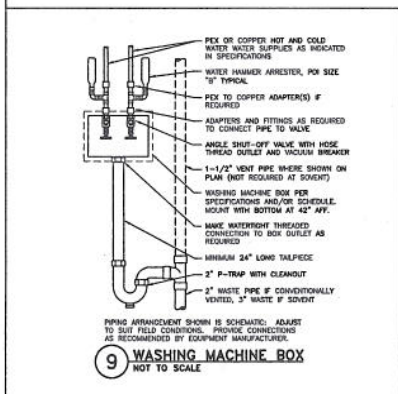
6 DOWNSPOUT NOZZLE
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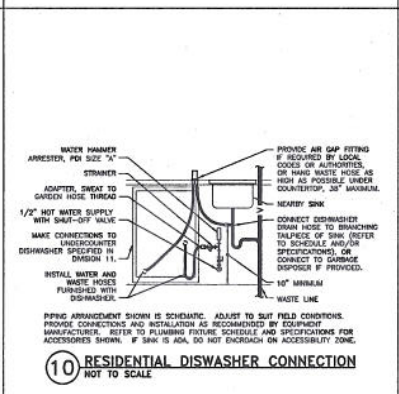
7 SIMPLEX WATER SOFTENER
NOT TO SCALE



8 GAS HEATER CONNECTION
NOT TO SCALE



9 WASHING MACHINE BOX
NOT TO SCALE



10 RESIDENTIAL DISHWASHER CONNECTION
NOT TO SCALE

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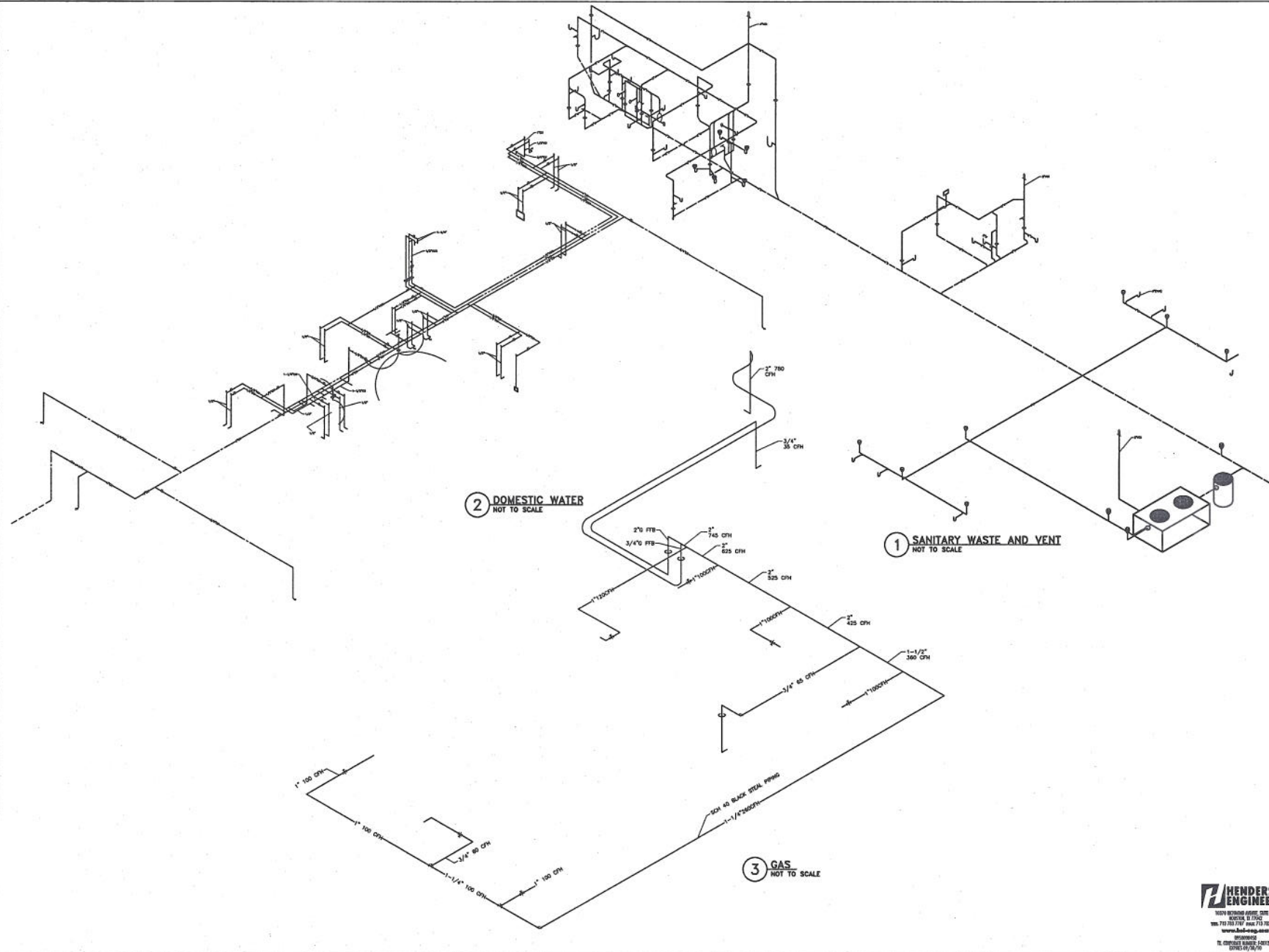
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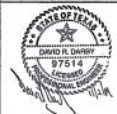
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