

IECC CERTIFICATION

Permit Number _____
Checked By Date _____

Envelope Compliance Certificate
2009 IECC
C:\MS-Office\22\Software\Version 2.4 Release 2b
Data Filename: C:\John\2009-10\Rockwall Lakeside Church of Christ\2009-10 Layout Books\2009-10 IECC.ccd

Section 1: Project Information

Project Name: New Auditorium and Education Facilities
Rockwall Lakeside Church of Christ
Rockwall, TX
Designer/Contractor: Hallum Architects, Inc.
2501 Parkview Dr., Ste. 430
Ft. Worth, TX 76102
817.337.2422
Nathan Cornish

Document Author: Nathan Cornish

Section 2: General Information

Building Location (for weather data): Rockwall, Texas
Climate Zone: 3B
Heating Degree Days (base 65 degrees F): 2701
Cooling Degree Days (base 65 degrees F): 2278

Activity (Trade)	Floor Area
Classroom/Lecture Hall	11642
Office	1620
Kitchen	1722
Corridor, Restroom, Support Area	12036
Religious Worship	10980

Project Description (check one):
 New Construction Addition Alteration Unconditioned Shell (File A/E/Rev)

Section 3: Requirements Checklist

Bldd: _____
Dept: _____
Use: _____

Air Leakage, Component Certification, and Vapor Retarder Requirements

1. All joints and penetrations are caulked, gasketed, weather-stripped, or otherwise sealed.
 2. Windows, doors, and skylights certified as meeting leakage requirements.
 3. Component U-values & U-factors labeled as certified.
 Note: Vapor retarder not required in this location.

Climate-Specific Requirements

Component Name/Description	Gross Area	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Non-Wood Joist Rafter Truss	46253	0.0	17.0	0.056	0.062
Skylight 1: Metal Frame, Double Pane with Low-E Tinted, SHGC 0.55	189	---	---	0.600	0.602
Exterior Wall 1: Metal Frame, 16" o.c.	14728	0.0	11.0	0.075	0.154
Window 1: Vinyl Frame, Double Pane with Low-E Tinted, SHGC 0.29, PF 0.63	845	---	---	0.560	1.230
Window 2: Vinyl Frame, Double Pane with Low-E Tinted, SHGC 0.33, PF 0.63	207	---	---	0.520	1.230
Door 1: Glass, Tinted, SHGC 0.38, PF 0.63	521	---	---	0.340	1.230
Floor 1: Unheated Slab-On-Grade	690	---	0.0	---	---

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

Envelope Passes: Design 36% better than code

Section 4: Compliance Statement

The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2009 IECC requirements in COM (check 22) Version 2.4 Release 2b and to comply with the mandatory requirements in the Requirements Checklist.

Principal Envelope Designer - Name: _____ Signature: _____ Date: _____

New Auditorium and Education Facilities

for

Rockwall Lakeside Church of Christ

485 North FM 549
Rockwall Texas 75087

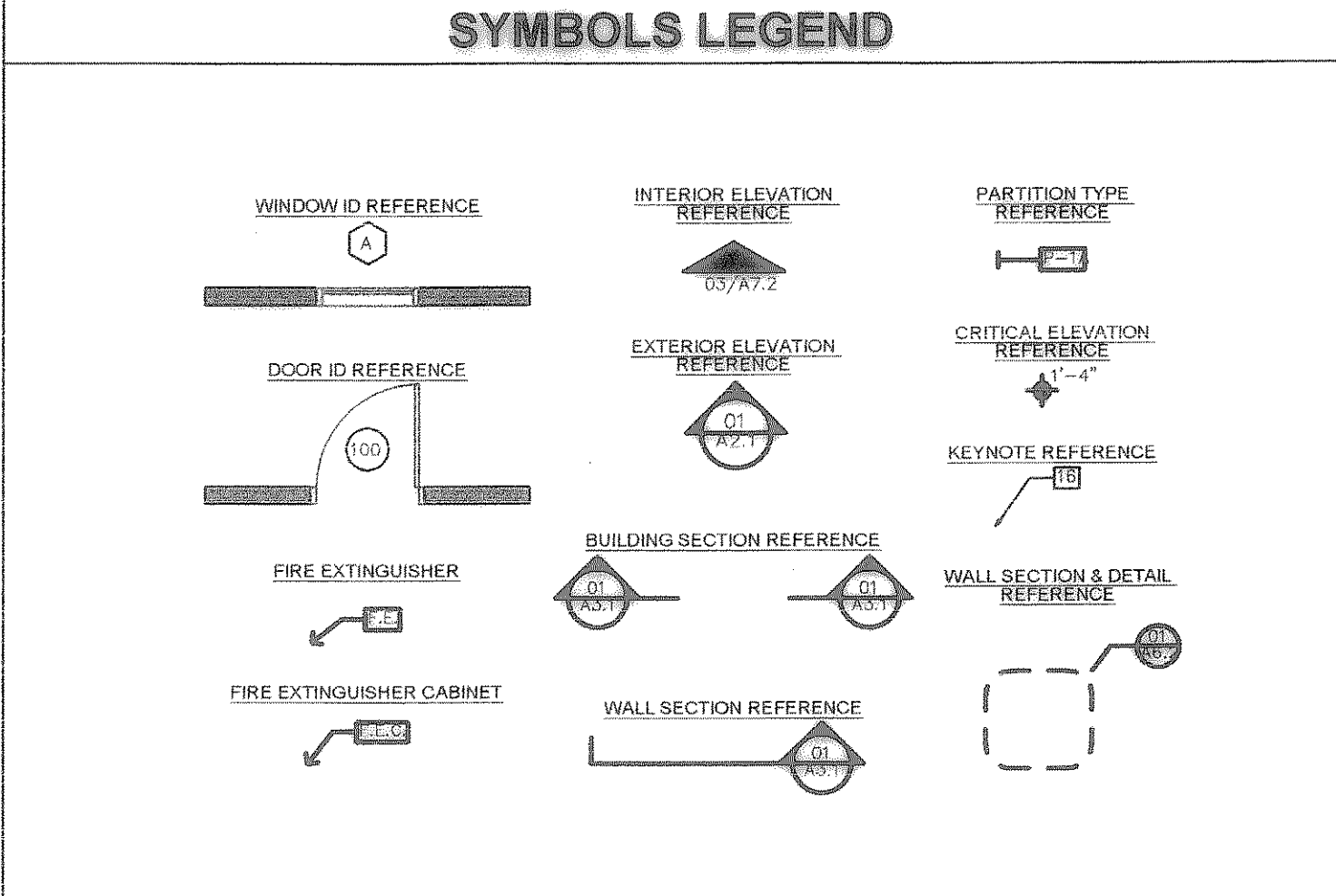
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C4.3	SITE IRRIGATION DETAILS

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DESIGN TEAM

ARCHITECT	STRUCTURAL ENGINEER	MEP ENGINEER	CIVIL ENGINEER	ACOUSTIC ENGINEER	AV ENGINEER	OWNER
Hallum Architects, Inc. 2501 Parkview Dr., Ste. 430 Ft. Worth, TX 76102	Structural Solutions, Inc. 8410 Southwest Blvd., Ste. 210 Ft. Worth, TX 76109	Baird, Hampton & Brown, Inc. 6300 Ridgela Place, Ste. 700 Ft. Worth, TX 76116	Freeman-Millican, Inc. 9500 Forest Ln., Ste. 115 Dallas, TX 75243	Acoustic Design Assoc., Inc. 2905 Suffolk Drive, Ste. 200 Dallas, TX 75229	Electro Acoustics & Video 485 North FM 549 Fort Worth, TX 76133	Rockwall Lakeside Church of Christ 485 North FM 549 Rockwall, Texas 75087
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CODE SUMMARY

Rockwall Lakeside Church of Christ
485 North FM 549
Rockwall, Texas 75087

Project #2002-10
VINE
January 5, 2004

- Building Code:** International Building Code 2000
*As amended by Ordinance 81-1-812, City of Rockwall
- Fire Code:** International Fire Code 2000
*As amended by City of Rockwall
- Plumbing Code:** International Plumbing Code 2000
*As amended by Ordinance 6-38-03, City of Rockwall
- Electrical Code:** National Electrical Code 1999
*As amended by Ordinance 6-75-03, City of Rockwall
- Mechanical Code:** International Mechanical Code 2000
*As amended by Ordinance 6-25-03, City of Rockwall
- Energy Code:** International Energy Conservation Code, 2000 - City of Rockwall, Texas
*See also National Energy Code
- Texas Accessibility Standards (TAS)**
ICC/ANSI A117.1-98 Accessible and Usable Building Facilities
- Zoning Ordinance:** 549 Corridor Overlay District
*As added by Ordinance Z2004-001, January 27, 2004, City of Rockwall
- Parking (Zoning Ordinance):** 1 car for each 3 persons

CODE REQUIREMENTS

302.1.1 Separation for incidental use areas
100' of storage - 1 hour separation at Storages 102, 123, 127, and Pantry 141

302.3.3 Erection of
Required 2 hr. separation between A-3 occupancies is reduced by 1 hour with provision of sprinkler system.

303.1 Assembly use - Churches - A-3 occupancy

410.5 Separation from stage not required because the space is a platform, not a stage per definitions on page 54

503 Construction type II-A
A-3 occupancy, allowable area/ft. = 15,500 sf/3 story - 65 ft.
Actual - Auditorium - 8,943 sf/2 story (balcony); Future 11,068 sf
Chapel entry - 5,892 sf/1 story
Northeast Classrooms - 12,609 sf/1 story; Future 11,535 sf
West Classrooms - 9,979 sf/1 story; Future 8,806 sf
Total = 37,300 sf

601 Fire Resistance Rating Requirements for Construction Type II-A
Structural Frame 1 hr (waived per note D)
Bearing Walls 1 hr (interior walls waived per note D)
Nonbearing Walls noncombustible materials
Floor Construction 1 hr (waived per note D)
Roof Construction 1 hr (waived per notes C.3. and D)

Note C.3. - Fire-retardant-treated wood may be used in Type II construction not over two stories including girders and trusses as part of the roof construction.

Note D - An approved sprinkler system shall be allowed to be substituted for 1-hour fire-resistance-rated construction, provided such system is not required for allowable area and height increases. The 1-hour substitution for the fire resistance of exterior walls shall not be permitted. However, exterior walls with fire separation distance equal to or greater than 50 feet are not required to be rated. The exterior window at Reception 105 must be 45 minute fire-rated protection (Tables 602 and 114.2).

707.2 Shaft Enclosure Requirements - Stair 124
Exception 7.1 - A shaft enclosure is not required for a floor opening that does not connect more than two stories.

903.2.1.3 An automatic sprinkler system shall be provided throughout a Group A-3 occupancy where the occupant load is 300 or more.

1003.2.2 Occupant Load
A. Auditorium = 16,146' / 18" = 897 seats, future 1173 seats
B. Chapel/Kitchen = 159 people
C. Classroom/Misc. = 22,498 sf / 15 sit/person = 688 people; future 572 people
Total = 1904 people x 0.15"/person = 286' ext width required
578' ext width provided

Individual Spaces
Auditorium 1173 people x 0.15"/person = 176' ext width required
478' ext width provided
Chapel 156 people x 0.15"/person = 24' ext width required
136' ext width provided

1004.2.4 Maximum exit access travel distance in A-3 occupancy with a sprinkler system is 250 feet. See Life Safety Plan A.1.3

1004.3.2.1 Corridor walls in A-3 occupancy with an occupant load greater than 30 and a sprinkler system are not required to be fire resistant.

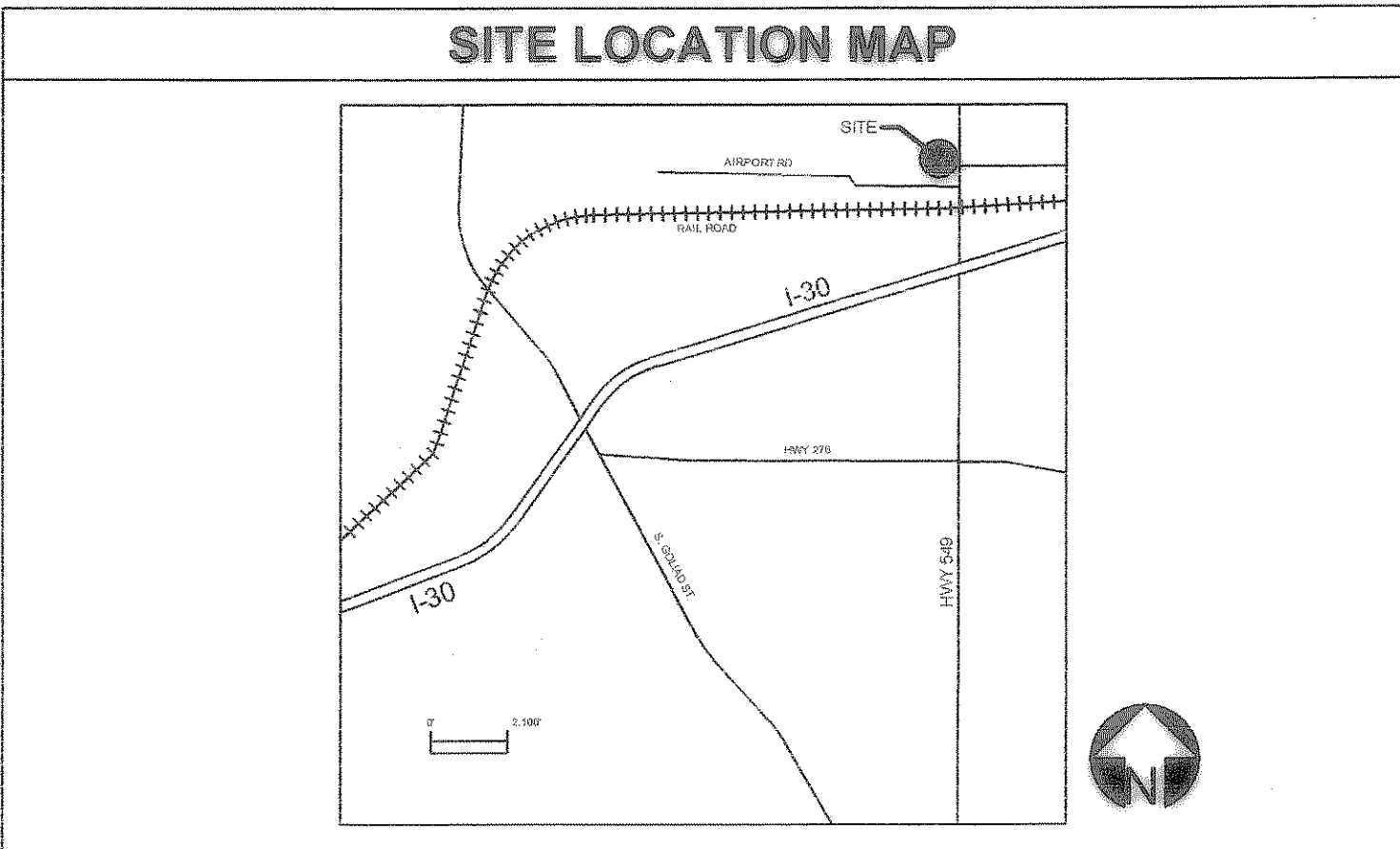
1004.3.2.3 Corridors dead ends can be no longer than 20'-0" in length.

1008.1 Group A occupancies, having an occupant load greater than 300, shall be provided with a main exit of sufficient width to accommodate not less than one-half of the occupant load (60' ext width required, 204' ext width provided) and front on at least one street.

1008.5.2 Smoke-protected Seating. The clear widths of the means of egress for the Auditorium shall be as follows:
A. Center aisle - 45' required, 72' provided
B. Adjacent center aisle - 45' required, 60' provided
C. End aisles - 20.8' required, 60' provided

GENERAL NOTES

- THE AMERICAN INSTITUTE OF ARCHITECTS STANDARD FORM (AIA DOCUMENT A201, 1997 EDITION) GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION IS HEREBY MADE A PART OF THESE CONTRACT DOCUMENTS.
- THESE DESIGN DOCUMENTS ARE INTENDED TO BE A REPRESENTATION OF THE DESIGN INTENT. THEY INDICATE GENERAL SCOPE OF PROJECT IN TERMS OF ARCHITECTURAL DESIGN, DIMENSIONS OF BUILDING, MAJOR ARCHITECTURAL ELEMENTS AND STRUCTURAL AND ELECTRICAL SYSTEMS. DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF REQUIREMENTS OF CONTRACT DOCUMENTS. ON BASIS OF SCOPE INDICATED OR DESCRIBED, CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR PROPER EXECUTION AND COMPLETION OF WORK.
- THE SCOPE OF WORK TO BE PERFORMED IS AS DESCRIBED IN THESE GENERAL NOTES AS SHOWN ON THE ACCOMPANYING DRAWINGS AND SPECIFICATIONS. TO BE FURTHER SUPPLEMENTED BY EXPLANATORY DETAILS AS REQUIRED. IN THE CASE OF DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE SPECIFICATIONS WILL TAKE PRECEDENCE.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING IF HE / SHE CANNOT COMPLY WITH ALL OF THE GENERAL NOTES CALLED FOR ON THIS SHEET AND ON ALL OTHER HALLUM ARCHITECTS' DRAWINGS.
- ALL DESIGN DRAWINGS AND ALL CONSTRUCTION NOTES ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY EITHER WILL BE BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE SET OF DRAWINGS SHALL BE PROVIDED AS THOUGH SHOWN ON ALL RELATED DRAWINGS. IF THERE IS A CONFLICT OR DISCREPANCY BETWEEN DRAWINGS, CONTACT THE ARCHITECT IMMEDIATELY FOR CLARIFICATION. IN CASES WHERE THERE IS A CONFLICT BETWEEN A DRAWING AND A LARGE SCALE DRAWING OR DETAIL, THE LARGER SCALE DRAWING IS TO BE USED.
- ALL WORK LISTED OR IMPLIED ON THE DRAWING SHEETS OR NOTES SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. IT IS EXPECTED THAT EACH CONTRACTOR SHALL CLOSELY COORDINATE HIS WORK WITH THE OTHER CONTRACTORS TO ASSURE THAT ALL SCHEDULES ARE MET.
- THE CONSTRUCTION NOTES AND DRAWINGS ARE SUPPLIED TO ILLUSTRATE THE DESIGN AND GENERAL TYPE OF CONSTRUCTION DESIRED AND ARE INTENDED TO IMPLY A PREMIUM QUALITY OF CONSTRUCTION MATERIALS AND WORKMANSHIP THROUGHOUT.
- THE CONTRACTORS, UPON ACCEPTANCE OF THE DRAWING, ASSUMES FULLY THE RESPONSIBILITY FOR THE CONSTRUCTION DOCUMENTS, FOR THEIR SPECIFIC TRADE, ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR THEIR WORK DURING ALL PHASES OF CONSTRUCTION AND UNTIL TURNED OVER TO THE OWNER.
- CONTRACTORS SHALL SUBMIT ALL FABRICATION SHOP DRAWINGS AND FIXTURE CUT SHEETS TO THE ARCHITECT FOR APPROVAL IN A TIMELY MANNER.
- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL PROVIDE HALLUM ARCHITECTS WITH CONSTRUCTION SCHEDULES SHOWING THE CHRONOLOGICAL PHASES OF THEIR WORK FOR THE TIMELY COMPLETION OF THE PROJECT. THIS SCHEDULE SHALL INDICATE ALL ORDERING LEAD TIMES, LENGTH OF TIME FOR EACH PHASE, ITS START AND COMPLETION, AND THE FINAL COMPLETION DATE.
- THE CONTRACTORS, THEIR SUBCONTRACTORS, OR ANY OTHER CONTRACTOR INVOLVED IN THIS PROJECT SHALL TAKE NOTE THAT ANY COST CAUSED BY DEFECTIVE WORK AS A RESULT OF BUT NOT LIMITED TO INFERIOR WORKMANSHIP OR MATERIALS, IMPROPER SCHEDULING OR DELINQUENT ORDERING, SHALL BE BORNE BY THE PARTY RESPONSIBLE.
- THE CONTRACTORS SHALL FURNISH WEEKLY FIELD PROGRESS REPORTS TO THE ARCHITECT FOR ALL PHASES OF CONSTRUCTION.
- CONTRACTORS SHALL FILE WITH THE DEPARTMENT OF BUILDING INSPECTION, PAY FILING FEES OR DEPOSITS AND OBTAIN BUILDING PERMITS, SPECIFIC TRADE PERMITS, LICENSES AND APPROVALS.
- ALL CONSTRUCTION TO BE AS PER ALL APPLICABLE AND GOVERNING FEDERAL, STATE AND LOCAL CODES AND ORDINANCES AND AUTHORITIES, INCLUDING TASIADA COMPLIANCE.
- ALL DRAWINGS ARE DRAWN TO SCALE AS MUCH AS POSSIBLE, BUT ARE NOT INTENDED TO BE, AND SHOULD NOT BE, SCALED.
- ALL CONTRACTORS SHALL FURNISH AND INSTALL ALL REQUIREMENTS FOR SAFETY TO MEET OR EXCEED OSHA REQUIREMENTS. CONTRACTORS SHALL COORDINATE ALL WORK TO ALLOW ACCESSIBILITY AND USE OF ALL ADJACENT SPACES.
- DURING CONSTRUCTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.
- EXISTING LANDSCAPE SHRUBS AND TREES TO REMAIN MUST BE PROTECTED FROM DAMAGE.
- CONTRACTORS ARE TO COORDINATE WITH CITY'S SEPARATE CONTRACTORS FOR DATA/PHONE, CABLE AND SECURITY SYSTEM INSTALLATION.
- CONTRACTOR TO VERIFY AND DOCUMENT ALL EXISTING CONDITIONS AND DIMENSIONS BEFORE CONSTRUCTION BEGINS. NOTIFY ARCHITECT OF CONFLICTS OR VARIATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND ADDITIONAL WORK BY OTHERS BEFORE PROCEEDING WITH ANY TRENCHING, DEMOLITION, DRILLING, PAVING, OR SIMILAR WORK.
- ALL PARTITIONS ARE DIMENSIONED TO FACE OF METAL STUD.
- GYPSUM WALLBOARD SHALL BE TYPE X.
- PROVIDE LINTELS AS REQUIRED OR DIRECTED OVER OPENINGS IN WALLS WHERE MECHANICAL EQUIPMENT PENETRATE WALLS.
- AT STUD WALL CONSTRUCTION WHICH EXTENDS ABOVE CEILING, PROVIDE FRAMING AT BRACING AT 4'-0" O.C. TYPICAL TO STRUCTURE ABOVE, TO PROVIDE SECURE, PERMANENT, AND RIGID ANCHORAGE OF WALLS, TYP. ALL CEILING FURRINGS, SUSPENSIONS, BRACING, BLOCKING, ETC. SHOWN IS SCHEMATIC REPRESENTATION ONLY. PROVIDE SECURE, PERMANENT ANCHORAGE AT FURRINGS IN ACCORDANCE WITH RECOMMENDED DRYWALL INSTALLATION PRACTICE, TYPICAL.
- AT MECHANICAL AREA, SEAL PARTITIONS TIGHTLY AROUND STRUCTURAL, MECHANICAL, AND ELECTRICAL PENETRATIONS.
- PROVIDE MIN. 2x6 F.R. WOOD BLOCKING BETWEEN STUDS AT MOUNTING LOCATIONS FOR ACCESSORIES.



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOE T. MILLICAN, P.E. NO. 35154 ON 08.04.05

RECORD DRAWING
(ALL REVISIONS ARE BASED UPON NOTES AND COMMENTS SUBMITTED BY FRANK DALE CONSTRUCTION CO., LTD)

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Rockwall Lakeside Church of Christ
 New Auditorium and Education Facilities
 485 North FM 549, Rockwall, Texas 75087

COVER
FINAL
CONTRACT SET

Date: 8/3/2005
 Scale:
 Drawn:
 Job: 2002-10
 Sheet Number:
CVR