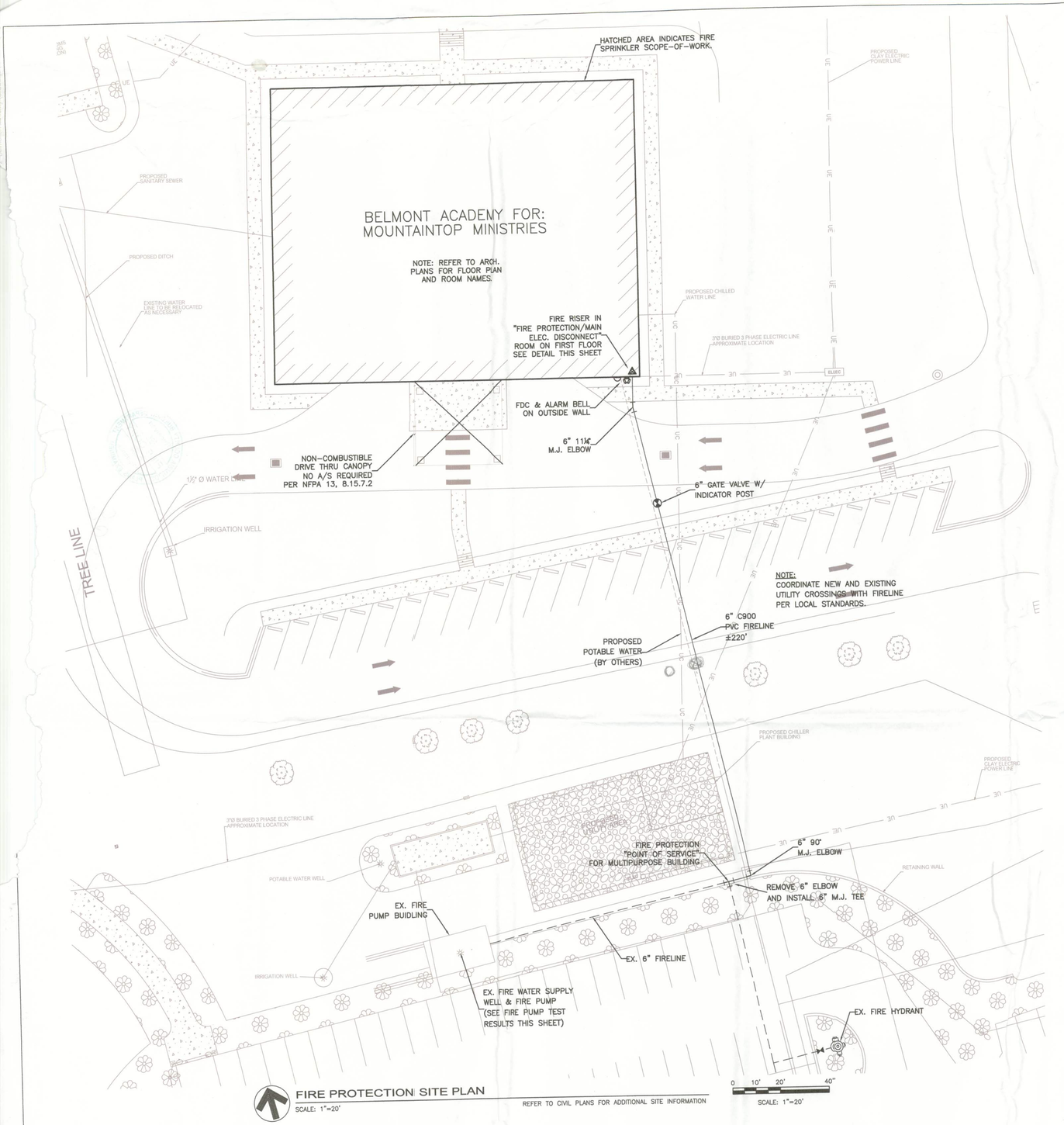
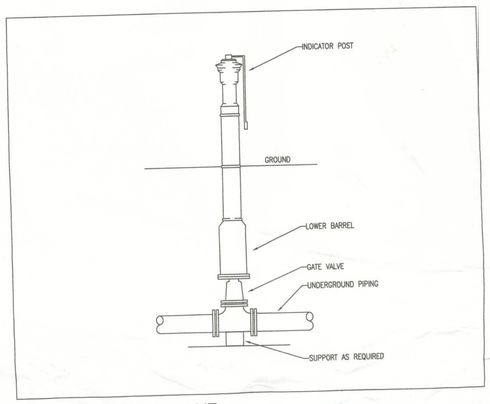


FIRE PROTECTION SITE PLAN

SCALE: 1"=20'

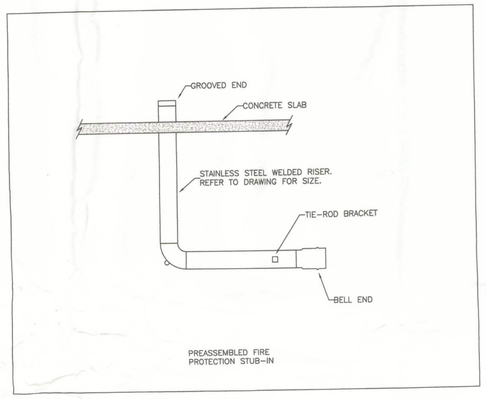
REFER TO CIVIL PLANS FOR ADDITIONAL SITE INFORMATION

SCALE: 1"=20'



POST INDICATOR VALVE

SCALE: NOT TO SCALE



IN-BUILDING RISER

SCALE: NOT TO SCALE

FIRE PUMP TEST RESULTS

TEST DATE:	NOVEMBER 14, 2011
TEST BY:	W.W. GAY FIRE & INTEGRATED SYSTEMS, INC.
PUMP RATING:	1,000 GPM @ 161 PSI (1,785 RPM)
PUMP TYPE:	VERTICAL TURBINE, ELECTRIC FIRE PUMP
PUMP LOCATION:	FIRE PUMP BUILDING

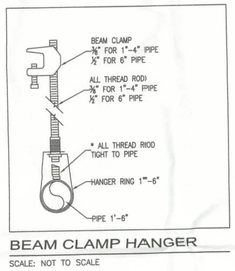
DISCHARGE PRESSURE (PSI):	FLOW (GPM):
188	0
165	772
147	1,158
113	1,544

GENERAL BUILDING INFORMATION

OWNER:	MOUNTAINTOP MINISTRIES
NAME OF FACILITY:	BELMONT ACADEMY
OCCUPANCY:	NEW EDUCATIONAL
GENERAL HAZARD:	LIGHT HAZARD – EDUCATIONAL
AUTHORITY HAVING JURISDICTION:	COLUMBIA COUNTY FIRE MARSHAL

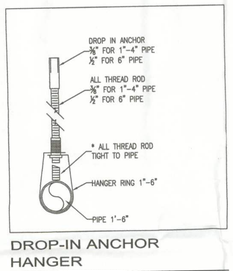
FIRE PROTECTION MATERIALS

ABOVE GROUND PIPE & FITTINGS:	
1"–2" PIPING (THREADED):	BLACK STEEL, SCHEDULE 40, ASTM A135 OR A795
1¼"–4" PIPING (GROOVED, WELDED):	BLACK STEEL, HIGH STRENGTH THINWALL, ASTM A795 OR
1¼"–6" PIPING (GROOVED, WELDED):	BLACK STEEL, SCHEDULE 10, ASTM A135 OR A795 OR
¾"–2" PIPING (SOLVENT WELDED):	SCHEDULE 40 CPVC, ASTM F442 (LIGHT HAZARD AREAS ONLY OR AS PER LISTING)
1"–2" FITTINGS (THREADED):	DUCTILE IRON, ASME/ANSI B16.3 OR CAST IRON, CLASS 125, ASME B16.4
1¼"–8" FITTINGS (GROOVED):	DUCTILE IRON, ASTM A-536
¾"–2" FITTINGS (SOLVENT WELDED):	SCH. 40 CPVC FITTINGS, ASTM F438 (LIGHT HAZARD AREAS ONLY OR AS PER LISTING)
UNDERGROUND PIPE & FITTINGS:	
4"–8" PIPING:	AWWA C900 PVC (DR-14)
4"–8" FITTINGS:	DUCTILE IRON MECHANICAL JOINT TYPE, ANSI/AWWA C153/A21.53 RESTRAIN PER LOCAL CODE & CONDITIONS



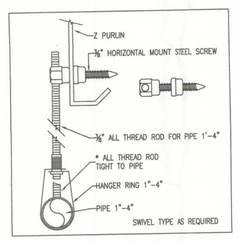
BEAM CLAMP HANGER

SCALE: NOT TO SCALE



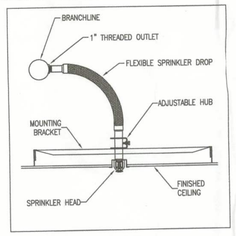
DROP-IN ANCHOR HANGER

SCALE: NOT TO SCALE



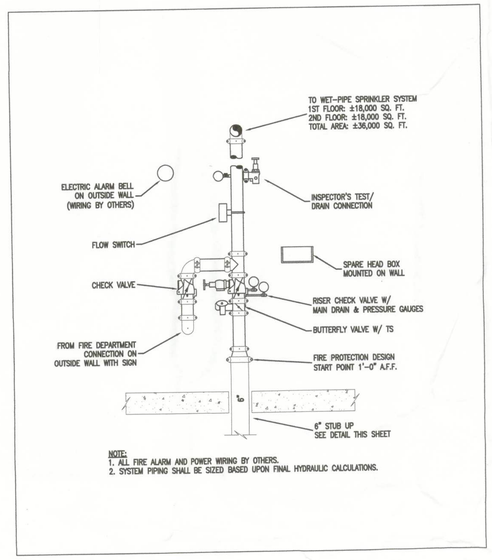
HORIZ. SIDEWINDER STEEL SCREW

SCALE: NOT TO SCALE



FLEXIBLE DROP

SCALE: NOT TO SCALE



RISER DETAIL

SCALE: ½"=1'–0"

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
A/S	AUTOMATIC SPRINKLERS
BFP	BACKFLOW PREVENTER
CI	CAST IRON
CR	CORROSION RESISTANT
CV	CONTROL VALVE
DN	DOWN
DI	DUCTILE IRON
EC	EXTENDED COVERAGE
EL	ELEVATION
ELL	ELBOW
EH	EXTRA HAZARD
EOR	ENGINEER OF RECORD
EX	EXISTING
FF	FINISHED FLOOR
FM	FACTORY MUTUAL GLOBAL
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
HP	HIGH PRESSURE
LF	LINEAR FEET
LH	LIGHT HAZARD
LP	LOW PRESSURE
LPS	LOW PRESSURE SWITCH
MJ	MECHANICAL JOINT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OH	ORDINARY HAZARD
OS&Y	OUTSIDE SCREW & YOKE VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
QR	QUICK RESPONSE
REC PEND	RECESSED PENDENT
RN	RISER NIPPLE
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
SQ. FT	SQUARE FEET
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
W/	WITH

SYMBOLS LEGEND

- FLOW SWITCH
- TS OS&Y VALVE
- CHECK VALVE
- TS BUTTERFLY VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HOSE VALVE
- ALARM BELL
- RISER LOCATION
- NEW CONNECTION
- (xx) HYDRAULIC REFERENCE POINT
- CAP
- PLUG
- FIRE HYDRANT
- NEW FIRE LINE
- EXISTING FIRE LINE
- DEMOLISH EXISTING FIRE LINE

FIRE PROTECTION GENERAL NOTES

1. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES, AND ALL GOVERNMENT REQUIREMENTS.
2. FINAL INSPECTION AND APPROVAL BY FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND A FL REGISTERED STRUCTURAL ENGINEER.
4. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED.
5. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
6. METHODS OF HANGING AND SUPPORTING PIPING AND HEADERS SHALL BE IN ACCORDANCE WITH NFPA 13.
7. PROTECT ALL PENETRATIONS OF SMOKE/FIRE: RATED WALLS, FLOORS, ETC. WITH AN APPROVED UL LISTED FIRESTOP SYSTEM.
8. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND CEILING SYSTEMS.
9. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, TELEPHONE, AND MECHANICAL EQUIPMENT ROOMS & OTHER LOCATIONS WHERE SPRINKLERS ARE SUBJEICT TO DAMAGE.
10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS TO BE IN ACCORDANCE WITH NFPA 13.
11. ALL COMPONENTS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM) FOR USE WITH FIRE PROTECTION SYSTEMS.
12. ALL COMPONENTS SHALL BE LISTED FOR THE MAXIMUM SYSTEM PRESSURE, 175 PSI MINIMUM.
13. VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES.
14. ALL FIRE ALARM & DETECTION AND POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIVISION. COORDINATE ALL FIRE ALARM, DETECTION, AND ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND ENSURE PROPER INSTALLATION.
15. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK OR OBSTRUCTIONS 4 FEET OR LARGER.
16. SPRINKLERS TO BE LOCATED IN THE CENTER-OF-TILE IN ALL AREAS WITH ACOUSTICAL CEILING TILES WHERE PRACTICAL.
17. PROVIDE HYDRAULIC DESIGN INFORMATION SIGNS AT EACH SYSTEM RISER.
18. PROVIDE STOCK OF SPARE SPRINKLERS AND HEAD WRENCH(S) IN A MOUNTED CABINET AS REQUIRED.
19. SYSTEM(S) SHALL BE HYDROSTATICALLY TESTED ACCORDING TO NFPA 13 AT 200 PSI FOR A MINIMUM 2 HOURS OR 50 PSI ABOVE THE SYSTEM WORKING PRESSURE IF THE SYSTEM WORKING PRESSURE EXCEEDS 150 PSI.

UNDERGROUND FIRE MAIN NOTES

1. IF SHOWN, EXISTING/OTHER UTILITIES ARE APPROXIMATE ONLY. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE, LOCATE AND VERIFY ALL LOCATIONS AND ELEVATIONS OF ALL EXISTING/OTHER UTILITIES WHETHER SHOWN OR NOT.
2. A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE DIGGING, INSTALLING CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL AT 811 OR 800-432-4770 TO REQUEST A LOCATE TICKET.
3. ALL WORK PERFORMED WITHIN AN EASEMENT OR THE PUBLIC RIGHT-OF-WAY REQUIRES A SEPARATE PERMIT ISSUED BY THE CITY ENGINEER.
4. ALL FIRE MAIN PIPING SHALL HAVE A MINIMUM OF 30" OF COVER FROM GRADE IN UNPAVED AREAS, 36" OF COVER UNDER DRIVEWAYS, ROADS, PAVED AREAS, ETC. PIPING SHALL BE PROTECTED UNTIL WORK IS COMPLETED.
5. ALL FIRE MAIN PIPING TO BE INSTALLED AND ANCHORED PER NFPA 13 & NFPA 24. MECHANICAL JOINT FITTINGS THROUGHOUT.
6. UTILITY CROSSINGS AND SEPARATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH F.A.C. 62-555, FDEP AND LOCAL WATER PURVEYOR/UTILITY COMPANY REQUIREMENTS.
7. AFTER INSTALLATION, ALL RODS, BOLTS, NUTS, WASHERS AND CLAMPS TO BE CLEANED AND THOROUGHLY COATED WITH BITUMINOUS OR OTHER ACCEPTABLE CORROSSION-RETARDING MATERIAL.
8. THOROUGHLY FLUSH ALL UNDERGROUND MAIN AND LEAD-INS PER NFPA AND THE LOCAL WATER PURVEYOR REQUIREMENTS.
9. ALL PIPING SHALL BE PRESSURE TESTED AT 200 PSI FOR 2 HOURS, OR AT LEAST 50 PSI IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI.
10. SCHEDULE TESTING OF BACKFLOW PREVENTER (IF APPLICABLE).
11. ALL WIRING, PAINTING/PRIMING, SODDING, ILANDSCAPE, PATCHING, ETC. SHALL BE BY OTHERS.
12. RETURN ALL TEST PAPERS AND DIMENSIONED "AS-BUILT" PLANS INDICATING ANY FIELD CHANGES TO THE ENGINEER .

A-J FIRE PROTECTION DESIGN CRITERIA (61G15-32.004)

(a) SEE "FIRE PROTECTION SITE PLAN" ON FP-1.

(b) FLORIDA FIRE PREVENTION CODE (2010) WITH THE LATEST REVISIONS.
FLORIDA BUILDING CODE (2010) WITH THE LATEST REVISIONS.
NFPA 13 (2007), STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
NFPA 24 (2007), STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES.
NFPA 25 (2008), STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS.
NFPA 72 (2007), NATIONAL FIRE ALARM CODE.
CERTIFIED FIRE PROTECTION UNDERGROUND CONTRACTOR – CONTRACTOR V.
ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.

(c) THE BUILDINGS PRIMARY HAZARD CLASSIFICATION IS LIGHT HAZARD UNLESS NOTES OTHERWISE. THE MECHANICAL, ELECTRICAL, EQUIPMENT, JANITOR, & SHELL SPACES ARE ORDINARY HAZARD GROUP I. REFER TO "OWNER'S INFORMATION SHEET".

(d) PROVIDE A COMPLETE, AUTOMATIC, WET-PIPE FIRE SPRINKLER SYSTEM THROUGHOUT THE BUILDING.
LIGHT HAZARD: .10 GPM/SQ. FT. OVER THE MOST REMOTE *1,500 SQ. FT. + 100 GPM HOSE ALLOWANCE. SPRINKLERS SHALL COVER A MAX. OF 225 SQ. FT. PER HEAD AND SHALL BE SPACED A MAX. OF 15'-0" APART.
ORDINARY HAZARD GROUP I: .15 GPM/SQ. FT. OVER THE MOST REMOTE *1,500 SQ. FT. + 250 GPM HOSE ALLOWANCE. SPRINKLERS SHALL COVER A MAX. OF 130 SQ. FT. PER HEAD AND SHALL BE SPACED A MAX. OF 15'-0" APART.
*DESIGN AREA MAY BE ADJUSTED PER NFPA 13, 11.2.3.2 WHERE APPLICABLE. DESIGN AREA SHALL BE INCREASED 30% IN AREAS WITH SLOPED CEILINGS WITH A PITCH EXCEEDING 2 IN 12.
SPRINKLERS IN EXPOSED AREAS SHALL BE QUICK RESPONSE, ORDINARY TEMP., K=5.6, BRASS, UPRIGHT HEADS. SPRINKLERS IN EXPOSED AREAS SHALL BE QUICK RESPONSE, ORDINARY TEMP., K=5.6, RECESSED PENDENT HEADS. IN AREAS WITH FINISHED CEILINGS SHALL BE QUICK RESPONSE, ORDINARY TEMP., K=5.6, RECESSED PENDENT HEADS.

(e) THERE IS AN EXISTING 6" FIRE MAIN ±210' SOUTH OF THE NEW BUILDING. A NEW 6" FIRE MAIN IS TO BE INSTALLED TO THE BUILDING (REFER TO "FIRE PROTECTION SITE PLAN" ON FP-1).

(f) SEE "FIRE PUMP TEST RESULTS" ON FP-1.

(g) ALL CONTROL VALVES SHALL BE PROVIDED WITH SUPERVISORY SWITCHES. THE WET-PIPE SYSTEM SHALL BE PROVIDED WITH A FLOW SWITCH TO MONITOR SYSTEM FLOW AND INTEGRITY. AN ELECTRIC ALARM BELL SHALL BE PROVIDED AT THE SYSTEM RISER FOR LOCAL ALARM. ALL SWITCHES SHALL BE MONITORED BY THE BUILDINGS FIRE ALARM AND DETECTION SYSTEM PER NFPA 72 (F/A DESIGN BY OTHERS).

(h) LOCAL WATER CONDITIONS AND A FAMILIARITY WITH FIRE SPRINKLER SYSTEMS IN THE LAKE CITY AREA HAVE NOT LED US TO BELIEVE THAT MIC IS A MAJOR OCCURRENCE. ALL SPRINKLER SYSTEM PIPING SHALL CONFORM WITH ASTM-135/ASTM-795 AND SHALL BE INTERNALLY FACTORY COATED TO RESIST MIC OR SHALL BE CPVC.

(i) THE FIRE WATER SUPPLY IS PROVIDED IBY A DEDICATED FIRE PROTECTION WELL. BACKFLOW PREVENTION IS NOT REQUIRED.

(j) ALL MATERIALS SHALL BE UNDERWRITERS' LABORATORY (UL) LISTED AND/OR FACTORY MUTUAL GLOBAL (FM) APPROVED FOR USE WITH FIRE PROTECTION SYSTEMS AND SHALL BE LABELED OR MARKED AS SUCH. ALL MATERIALS SHALL BE INSTALLED PER THEIR LISTING FOR USE WITH FIRE PROTECTION SYSTEMS. ALL COMPONENTS SHALL BE INCLUDED IN THE LATEST REVISION OF THE UL FIRE PROTECTION EQUIPMENT DIRECTORY AND THE FM GLOBAL APPROVAL GUIDE.

NOTE: THIS DRAWING IS INTENDED TO SATISFY THE REQUIREMENTS OF 61G15-32.004. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING COMPLETE FIRE PROTECTION SYSTEM LAYOUT DRAWINGS, HYDRAULIC CALCULATIONS, AND SUBMITTAL DATA FOR APPROVAL BY THE ARCHITECT/ENGINEER AND THE AUTHORITY HAVING JURISDICTION.

9/24/12
N. JOHN ORDILE, P.E. #68128

To Be Installed By:
W.W. GAY
FIRE & INTEGRATED SYSTEMS

522 STOCKTON STREET
JACKSONVILLE, FL 322
PHONE: (904) 387-7
FAX: (904) 387-7
WEBSITE: WWGFP.C

ASSOCIATED ENGINEERING

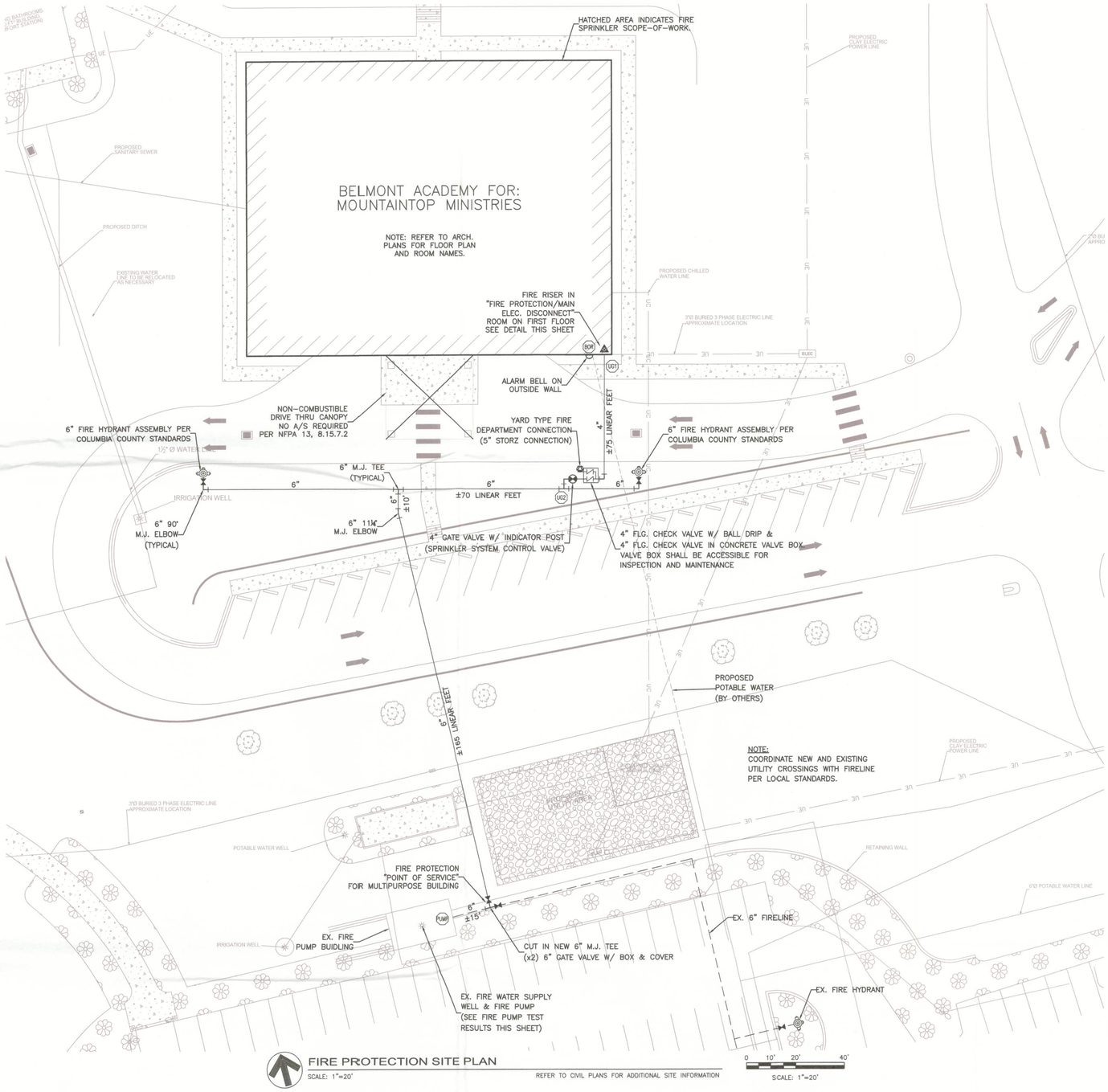
522 STOCKTON STR
JACKSONVILLE, FL
C/A # 0007540
PHONE: 904.387.7687
FAX: 904.394.7261

NO.	DATE	BY	REVISIONS

PROJECT: BELMONT ACADEMY FOR: MOUNTAIN TOP MINISTRIES
5037 STATE ROAD 240
LAKE CITY, FLORIDA 32024
DESCRIPTION:

DATE: SEPT. 21, 201
JOB NO: FP-267912
DRAWN BY: M.C.L.
CHE
PROJECT FOLDE 12679

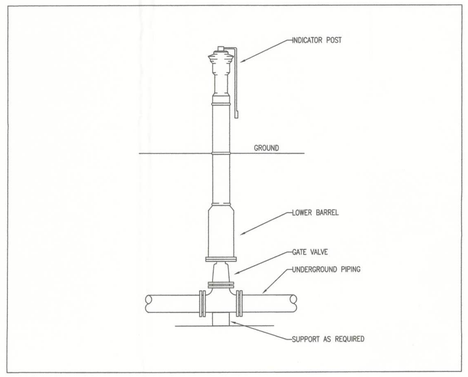
FP-1
SHEET 1 OF 1



FIRE PROTECTION SITE PLAN

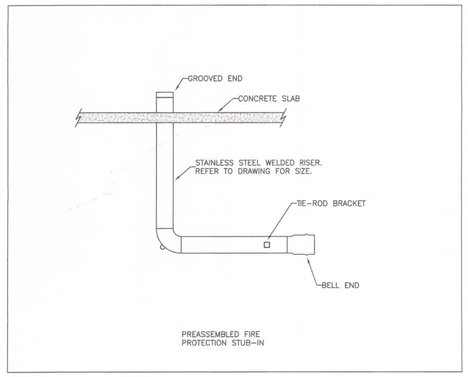
SCALE: 1"=20'

REFER TO CIVIL PLANS FOR ADDITIONAL SITE INFORMATION



POST INDICATOR VALVE

SCALE: NOT TO SCALE



IN-BUILDING RISER

SCALE: NOT TO SCALE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
A/S	AUTOMATIC SPRINKLERS
BFP	BACKFLOW PREVENTER
CI	CAST IRON
CR	CORROSION RESISTANT
CV	CONTROL VALVE
DN	DOWN
DI	DUCTILE IRON
EC	EXTENDED COVERAGE
EL	ELEVATION
ELL	ELBOW
EH	EXTRA HAZARD
EOR	ENGINEER OF RECORD
EX	EXISTING
FF	FINISHED FLOOR
FM	FACTORY MUTUAL GLOBAL
FDC	FIRE DEPARTMENT CONNECTION
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FS	FLOW SWITCH
GPM	GALLONS PER MINUTE
HP	HIGH PRESSURE
LF	LINEAR FEET
LH	LIGHT HAZARD
LP	LOW PRESSURE
LPS	LOW PRESSURE SWITCH
MJ	MECHANICAL JOINT
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
OH	ORDINARY HAZARD
OS&Y	OUTSIDE SCREW & YOKE VALVE
PS	PRESSURE SWITCH
PSI	POUNDS PER SQUARE INCH
QR	QUICK RESPONSE
REC PEND	RECESSED PENDENT
RN	RISER NIPPLE
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER
SQ FT	SQUARE FEET
TEMP	TEMPERATURE
TS	TAMPER SWITCH
TYP	TYPICAL
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
W/	WITH

SYMBOLS LEGEND

- FLOW SWITCH
- OS&Y VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HOSE VALVE
- ALARM BELL
- RISER LOCATION
- NEW CONNECTION
- HYDRAULIC REFERENCE POINT (XX)
- CAP
- PLUG
- FIRE HYDRANT
- NEW FIRE LINE
- EXISTING FIRE LINE
- DEMOLISH EXISTING FIRE LINE

FIRE PROTECTION DESIGN CRITERIA

WET PIPE SYSTEM:

LIGHT HAZARD:	OFFICE, CLASSROOMS
DESIGN DENSITY:	.10 GPM/SQ.FT.
DESIGN AREA:	900 SQ. FT. BASED UPON 11-2.3.2.3 (10' CLG., WET-PIPE, QR HEADS)
PROTECTION AREA PER SPRINKLER:	225 SQ. FT. MAXIMUM
HEAD SPACING:	15'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	100 GPM
LIGHT HAZARD:	NON-COMBUSTIBLE ATTIC SPACE
DESIGN DENSITY:	.10 GPM/SQ.FT.
DESIGN AREA:	2,000 SQ. FT. BASED UPON 11-2.3.2.4 (1,500+30% FOR SLOPED CEILING)
PROTECTION AREA PER SPRINKLER:	225 SQ. FT. MAXIMUM
HEAD SPACING:	15'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	100 GPM
ORDINARY HAZARD GROUP 1:	STORAGE, MECHANICAL ROOMS
DESIGN DENSITY:	.15 GPM/SQ. FT.
DESIGN AREA:	1,500 SQ. FT.
PROTECTION AREA PER SPRINKLER:	130 SQ. FT. MAXIMUM
HEAD SPACING:	15'-0" MAXIMUM
OUTSIDE HOSE ALLOWANCE:	250 GPM

FIRE PUMP TEST RESULTS

TEST DATE:	NOVEMBER 14, 2011
TEST BY:	W.W. GAY FIRE & INTEGRATED SYSTEMS, INC.
PUMP RATING:	1,000 GPM @ 161 PSI (1,785 RPM)
PUMP TYPE:	VERTICAL TURBINE, ELECTRIC FIRE PUMP (W/ TRANSFER SWITCH)
PUMP LOCATION:	FIRE PUMP BUILDING

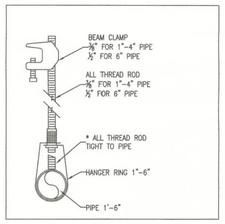
DISCHARGE PRESSURE (PSI):	FLOW (GPM):
188	0
165	772
147	1,158
113	1,544

GENERAL BUILDING INFORMATION

OWNER:	MOUNTAINTOP MINISTRIES
NAME OF FACILITY:	BELMONT ACADEMY
OCCUPANCY:	NEW EDUCATIONAL
GENERAL HAZARD:	LIGHT HAZARD - EDUCATIONAL
AUTHORITY HAVING JURISDICTION:	COLUMBIA COUNTY FIRE MARSHAL

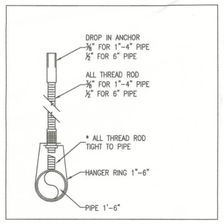
FIRE PROTECTION MATERIALS

ABOVE GROUND PIPE & FITTINGS:	
1"-2" PIPING (THREADED):	BLACK STEEL, SCHEDULE 40, ASTM A135 OR A795
1¼"-6" PIPING (GROOVED, WELDED):	BLACK STEEL, HIGH STRENGTH THINWALL, ASTM A795 OR BLACK STEEL, SCHEDULE 10, ASTM A135 OR A795
1"-2" FITTINGS (THREADED):	DUCTILE IRON, ASME/ANSI B16.3 OR CAST IRON, CLASS 125, ASME B16.4
1¼"-8" FITTINGS (GROOVED):	DUCTILE IRON, ASTM A-536
UNDERGROUND PIPE & FITTINGS:	
4"-6" PIPING:	AWWA C900 POLYVINYL CHLORIDE (PVC) PRESSURE PIPE (DR-14)
4"-6" FITTINGS:	DUCTILE IRON MECHANICAL JOINT TYPE, ANSI/AWWA C153 RESTRAIN PER LOCAL CODE & CONDITIONS



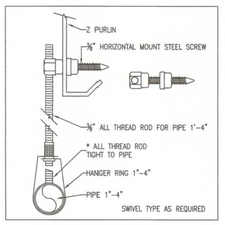
BEAM CLAMP HANGER

SCALE: NOT TO SCALE



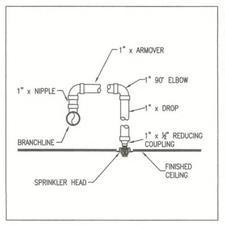
DROP-IN ANCHOR HANGER

SCALE: NOT TO SCALE



HORIZ. SIDEWINDER STEEL SCREW

SCALE: NOT TO SCALE



RETURN BEND DETAIL

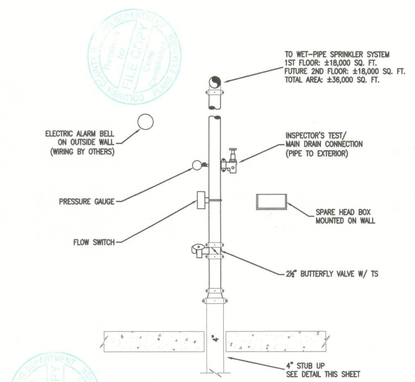
SCALE: NOT TO SCALE

FIRE PROTECTION GENERAL NOTES

1. ADHERE TO AND OBTAIN ALL PERMITS, LICENSES, AND ALL GOVERNMENT REQUIREMENTS.
2. FINAL INSPECTION AND APPROVAL BY FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS TO BE DONE ONLY WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND A FL REGISTERED STRUCTURAL ENGINEER.
4. PIPE ROUTING SHOWN SHALL BE USED AND ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED.
5. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY.
6. METHODS OF HANGING AND SUPPORTING PIPING AND HEADERS SHALL BE IN ACCORDANCE WITH NFPA 13.
7. PROTECT ALL PENETRATIONS OF SMOKE/FIRE RATED WALLS, FLOORS, ETC. WITH AN APPROVED UL LISTED FIRESTOP SYSTEM.
8. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, AND CEILING SYSTEMS.
9. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, TELEPHONE, AND MECHANICAL EQUIPMENT ROOMS & OTHER LOCATIONS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE.
10. AUTOMATIC SPRINKLER TEMPERATURE RATINGS TO BE IN ACCORDANCE WITH NFPA 13.
11. ALL COMPONENTS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND/OR APPROVED BY FACTORY MUTUAL (FM) FOR USE WITH FIRE PROTECTION SYSTEMS.
12. ALL COMPONENTS SHALL BE LISTED FOR THE MAXIMUM SYSTEM PRESSURE, 250 PSI MINIMUM.
13. VALVES ON THE FIRE PROTECTION SYSTEM TO BE ELECTRICALLY SUPERVISED. TYPE AND EXACT LOCATION OF FLOW, PRESSURE, AND SUPERVISORY SWITCHES SHALL BE COORDINATED BETWEEN THE DIFFERENT RESPONSIBLE TRADES.
14. ALL FIRE ALARM & DETECTION AND POWER WIRING SHALL BE ACCOMPLISHED UNDER THE ELECTRICAL DIMSION. COORDINATE ALL FIRE ALARM, DETECTION, AND ELECTRICAL ITEMS WITH ELECTRICAL CONTRACTOR AND ENSURE PROPER INSTALLATION.
15. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK OR OBSTRUCTIONS 4 FEET OR LARGER.
16. SPRINKLERS TO BE LOCATED IN THE CENTER-OF-TILE IN ALL AREAS WITH ACOUSTICAL CEILING TILES WHERE PRACTICAL.
17. PROVIDE HYDRAULIC DESIGN INFORMATION SIGNS AT EACH SYSTEM RISER.
18. PROVIDE STOCK OF SPARE SPRINKLERS AND HEAD WRENCH(S) IN A MOUNTED CABINET AS REQUIRED.
19. SYSTEM(S) SHALL BE HYDROSTATICALLY TESTED ACCORDING TO NFPA 13 AT 200 PSI FOR A MINIMUM 2 HOURS OR 50 PSI ABOVE THE SYSTEM WORKING PRESSURE IF THE SYSTEM WORKING PRESSURE EXCEEDS 150 PSI.

UNDERGROUND FIRE MAIN NOTES

1. IF SHOWN, EXISTING/OTHER UTILITIES ARE APPROXIMATE ONLY. IT IS THE INSTALLING CONTRACTORS RESPONSIBILITY TO FIELD COORDINATE, LOCATE AND VERIFY ALL LOCATIONS AND ELEVATIONS OF ALL EXISTING/OTHER UTILITIES WHETHER SHOWN OR NOT.
2. A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE DIGGING, INSTALLING CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL AT 811 OR 800-432-4770 TO REQUEST A LOCATE TICKET.
3. ALL WORK PERFORMED WITHIN AN EASEMENT OR THE PUBLIC RIGHT-OF-WAY REQUIRES A SEPARATE PERMIT ISSUED BY THE CITY ENGINEER.
4. ALL FIRE MAIN PIPING SHALL HAVE A MINIMUM OF 30" OF COVER FROM GRADE IN UNPAVED AREAS, 36" OF COVER UNDER DRIVEWAYS, ROADS, PAVED AREAS, ETC. PIPING SHALL BE PROTECTED UNTIL WORK IS COMPLETED.
5. ALL FIRE MAIN PIPING TO BE INSTALLED AND ANCHORED PER NFPA 13 & NFPA 24. MECHANICAL JOINT FITTINGS THROUGHOUT.
6. UTILITY CROSSINGS AND SEPARATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH F.A.C. 62-555, FDEP AND LOCAL WATER PURVEYOR/UTILITY COMPANY REQUIREMENTS.
7. AFTER INSTALLATION, ALL RODS, BOLTS, NUTS, WASHERS AND CLAMPS TO BE CLEANED AND THOROUGHLY COATED WITH BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.
8. THOROUGHLY FLUSH ALL UNDERGROUND MAIN AND LEAD-INS PER NFPA AND THE LOCAL WATER PURVEYOR REQUIREMENTS.
9. ALL PIPING SHALL BE PRESSURE TESTED AT 200 PSI FOR 2 HOURS, OR AT LEAST 50 PSI IN EXCESS OF THE MAXIMUM STATIC PRESSURE WHEN THE MAXIMUM STATIC PRESSURE IS IN EXCESS OF 150 PSI.
10. SCHEDULE TESTING OF BACKFLOW PREVENTER (IF APPLICABLE).
11. ALL WIRING, PAINTING/PRIMING, SODDING, LANDSCAPE, PATCHING, ETC. SHALL BE BY OTHERS.
12. RETURN ALL TEST PAPERS AND DIMENSIONED "AS-BUILT" PLANS INDICATING ANY FIELD CHANGES TO THE ENGINEER .



RISER DETAIL

SCALE: ½"=1'-0"

MAIN OFFICE:
522 STOCKTON STREET
JACKSONVILLE, FL 32204
PHONE: (904) 387-7973
FAX: (904) 394-7281
WEBSITE: WWW.WWGFP.COM

GAINESVILLE BRANCH:
2500 N.E. 18TH TERRACE
GAINESVILLE, FL 32609
PHONE: (352) 380-0317
FAX: (352) 378-1454

NO.	DATE	BY	REVISIONS

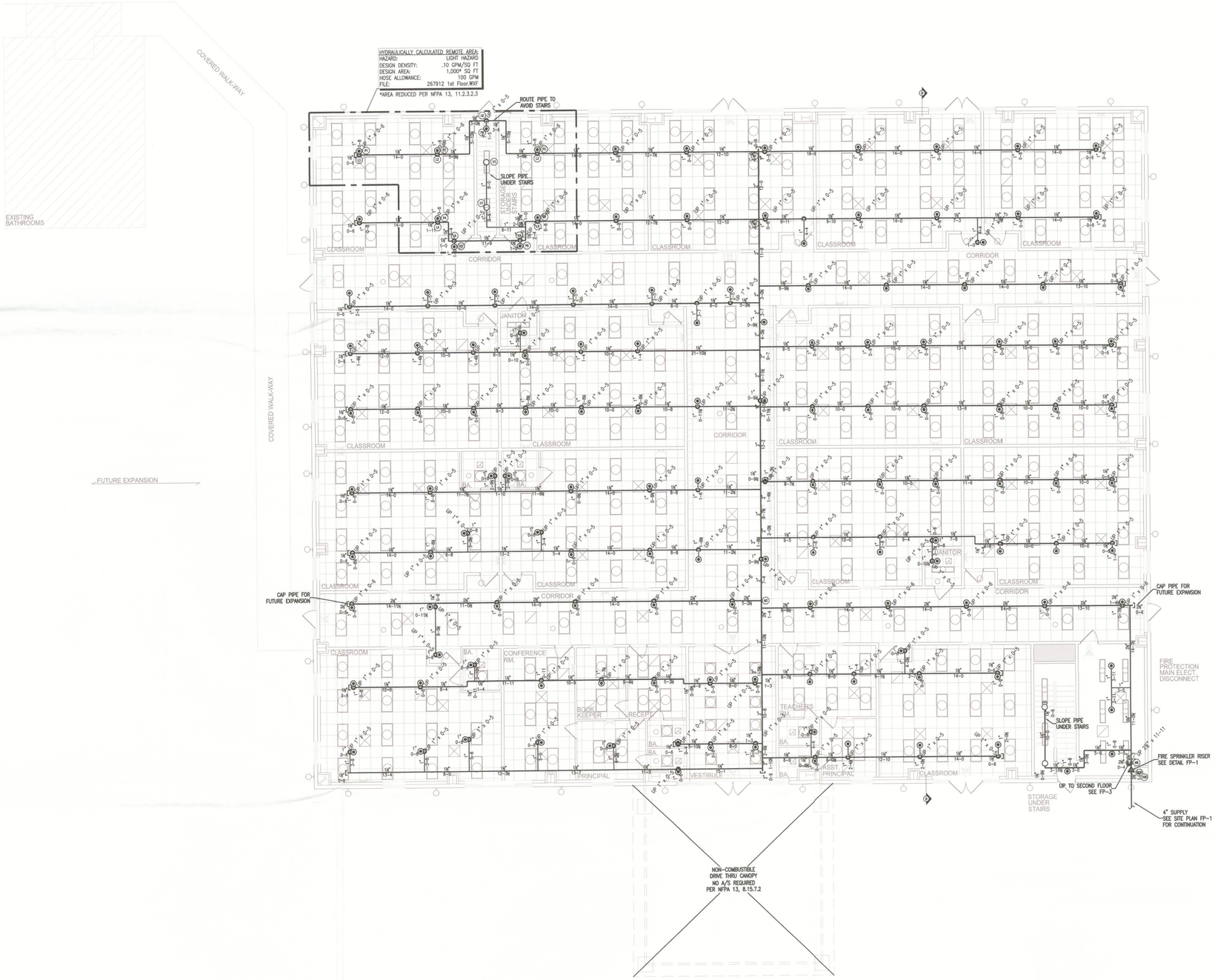
PROJECT: BELMONT ACADEMY FOR: MOUNTAIN TOP MINISTRIES
5037 STATE ROAD 240
LAKE CITY, FLORIDA 32024

DESCRIPTION: FIRE PROTECTION SITE PLAN AND DETAILS

130555 -

DATE: NOVEMBER 5, 2012
JOB NO: FP-267912
DRAWN BY: A.D.K.
CHECKED BY: N.J.O.
PROJECT FOLDER: FP-267912

FP-1
SHEET 1 OF 3



FIRE PROTECTION PLAN — FIRST FLOOR

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

0 4' 8' 16'

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

NOTES:
1. CEILING HEIGHTS 10'-5" UNLESS NOTED OTHERWISE
2. PIPE ELEVATION 11'-1" AFF UNLESS NOTED OTHERWISE

SPRINKLER SYMBOL DESCRIPTION

SYMB	SIZE	FINISH	STYLE	MAKE	MODEL	PART #	TEMP	K-FACT	NOTES	TOTAL
◉	½"	CHROME	REC. PEND	VIKING	MICROFAST	VK317	155°F	5.6	QUICK RESPONSE, HIGH PRESSURE	134
○	½"	BRASS	UPRIGHT	VIKING	MICROFAST	VK315	155°F	5.6	QUICK RESPONSE, HIGH PRESSURE	4

1st FLOOR — TOTAL SPRINKLERS: 138

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GAINESVILLE BRANCH:
2500 N.E. 18TH TERRACE
GAINESVILLE, FL 32609
PHONE: (352) 380-0317
FAX: (352) 378-1454

WWGFP

Certificate of Authorization No. 4953

FIRE PROTECTION - FABRICATION - FIRE ALARM - CLEAN AGENT - ELECTRICAL - TELE/DATA COMMUNICATIONS - ACCESS CONTROL/CCTV - FIBER OPTICS - A/V

REVISIONS

NO.	DATE	BY

PROJECT: BELMONT ACADEMY FOR: MOUNTAIN TOP MINISTRIES
5037 STATE ROAD 240
LAKE CITY, FLORIDA 32024

DESCRIPTION: FIRE PROTECTION PLAN FIRST FLOOR

DATE: NOVEMBER 5, 2012
JOB NO: FP-267912
DRAWN BY: A.D.K. CHECKED BY: N.J.O.
PROJECT FOLDER: FP-267912

FP-2
SHEET 2 OF 3

PLOT DATE: 11/5/2012 2:54 PM

HYDRAULICALLY CALCULATED REMOTE AREA:
HAZARD: LIGHT HAZARD
DESIGN DENSITY: .10 GPM/SQ FT
DESIGN AREA: 2,000* SQ FT
HOSE ALLOWANCE: 100 GPM
FILE: 267912 2nd Floor.WXF
*AREA INCREASED 30% PER NFPA 11.2.3.2.4

SECURITY / I.T. EQUIP.

SWING JOINT TO NEW SLOPE TO ACCOMMODATE SHIFT IN DECK (TYP)

ANGLED, NON-COLUMN STEEL MEMBERS

ANGLED, NON-COLUMN STEEL MEMBERS

SLOPE PIPE W/ DECK SEE DETAIL FP-3 (TYP)

MECHANICAL EQUIP. RM.

UP FROM FIRST FLOOR SEE FP-2

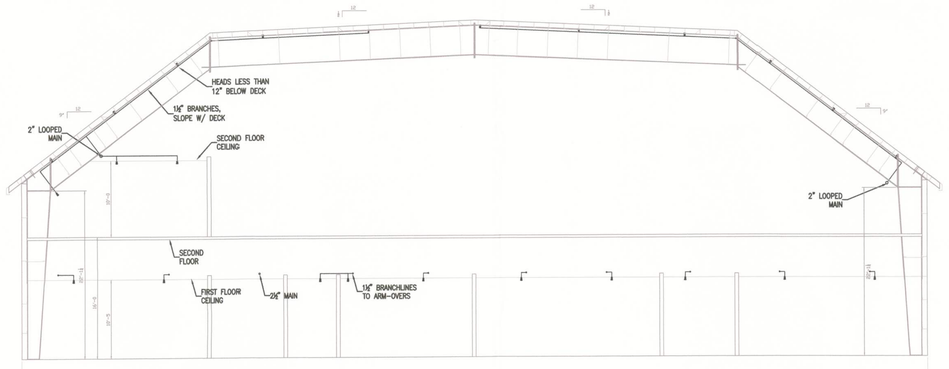
SLOPE DOWN TO HEAD (TYP) SEE DETAIL THIS PAGE

FIRE PROTECTION PLAN — ATTIC/MEZZANINE

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

0 4' 8' 16'

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



BUILDING SECTION A-A

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

0 4' 8' 16'

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

NOTES:
1. CEILING IN MECHANICAL/IT ROOMS 10'-0" AFF UNLESS NOTED OTHERWISE
2. MAIN PIPING 10'-8" AFF UNLESS NOTED OTHERWISE

SPRINKLER SYMBOL DESCRIPTION

SYMB	SIZE	FINISH	STYLE	MAKE	MODEL	PART #	TEMP	K-FACT	NOTES	TOTAL
⊛	½"	CHROME	REC. PEND	VIKING	MICROFAST	VK317	155°F	5.6	QUICK RESPONSE, HIGH PRESSURE	8
⊗	½"	CHROME	REC. PEND	VIKING	MICROFAST	VK317	200°F	5.6	QUICK RESPONSE, HIGH PRESSURE	21
○	½"	BRASS	UPRIGHT	VIKING	MICROFAST	VK315	200°F	5.6	QUICK RESPONSE, HIGH PRESSURE	190
2nd FLOOR									TOTAL SPRINKLERS:	219

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2500 N.E. 18TH TERRACE
GAINESVILLE, FL 32609
PHONE: (352) 380-0317
FAX: (352) 378-1454

REVISIONS

NO.	DATE	BY

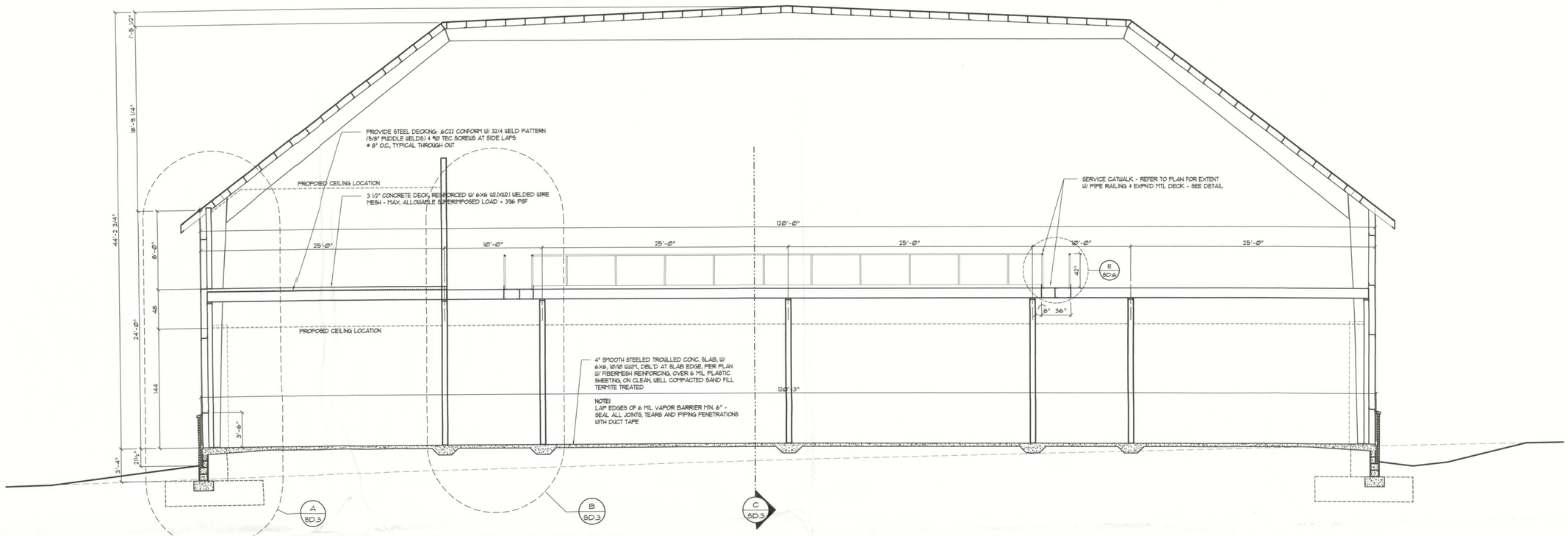
PROJECT: BELMONT ACADEMY FOR: MOUNTAIN TOP MINISTRIES
3227 STATE ROAD 200
LAKE CITY, FLORIDA 32064

DESCRIPTION: FIRE PROTECTION PLAN SECOND FLOOR

DATE: NOVEMBER 5, 2012
JOB NO: FP-267912
DRAWN BY: A.D.K. CHECKED BY: N.J.O.
PROJECT FOLDER: FP-267912

FP-3
SHEET 3 OF 3

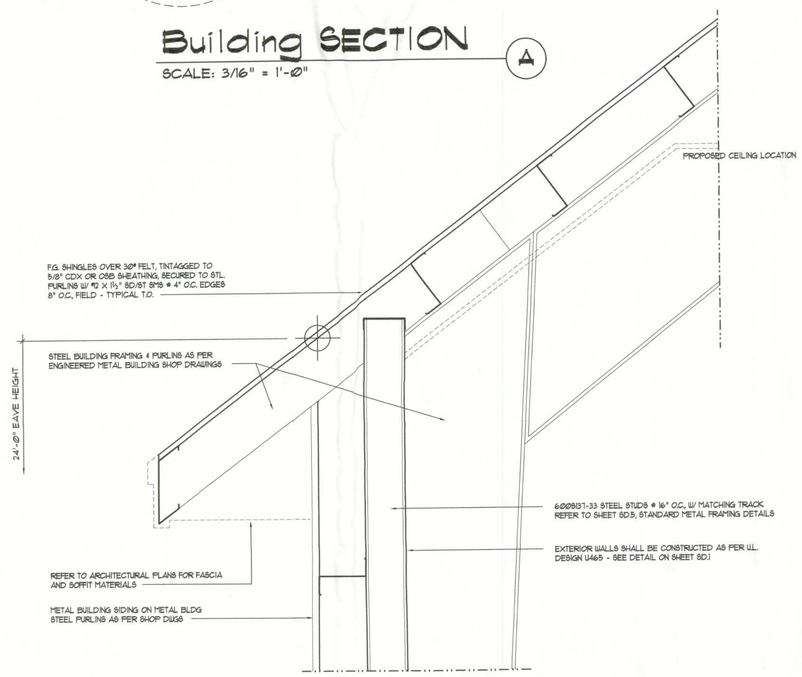
PLOT DATE: 11/6/2012 3:54 PM



Building SECTION

A

SCALE: 3/16" = 1'-Ø"



Roof Eave DETAIL

B

SCALE: 1½" = 1'-Ø"

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE I, OR ASTM D 4869, TYPE I.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 130 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR MODIFIED FM 1971-98.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS .019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF .019 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.
1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.3.2.
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
   1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
   2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
   3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1970.

NOTE !!!
ROOF SHINGLES SHALL BE OF THE FOLLOWING MANUFACURERS AND MODELS:

TAMKO ROOFING PRODUCTS	GAF MATERIALS CORPORATION	ELK PREMIUM ROOFING
GLASS-SEAL AR ELITE GLASS-SEAL AR HERITAGE 30 AR HERITAGE 40 AR HERITAGE 50 AR	ROYAL SOVEREIGN MARQUIS WEATHER MAX SLATELINE GRAND CANYON GRAND SEQUOIA COUNTRY MANSION COUNTRY ESTATES TIMBERLINE 30 TIMBERLINE SELECT 40 TIMBERLINE ULTRA SENTINEL	RAISED PROFILE ® PRESTIQUE HIGH DEFINITION ® PRESTIQUE 25 ® PRESTIQUE 30 ® PRESTIQUE I 35.® ® PRESTIQUE I ® PRESTIQUE PLUS ® PRESTIQUE GALLERY COLLECTION ® CAPSTONE ®
TAMKO REQUIRED NAILS/SHINGLE = 4	GAF REQUIRED NAILS/SHINGLE = 4	ELK REQUIRED NAILS/SHINGLE = 4 ® = 5 NAILS ® = 6 NAILS

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161 TYPE I MODIFIED TO 130 MPH WINDS & FBC TAS 107, USING THE SPECIFIED NAILS

GENERAL STRUCTURAL NOTES

PLYWOOD ROOF DIAPHRAGM:

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "APA DESIGN/CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.
2. PLYWOOD ROOF DECKING SHALL BE 19/32" MINIMUM THICKNESS, CDX TYPE AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 10d GALV. NAILS, SPACED AT 6" O.C. MAX. AT SUPPORTED EDGES AND AT 6" O.C. ALONG THE INTERMEDIATE SUPPORTS.

GABLE ENDS NAIL SPACING SHALL BE 4" ON CENTERS MAXIMUM.

4. INSPECTIONS: COMPLY WITH THE LOCAL BUILDING CODE AND OTHER REQUIREMENTS FOR INSPECTIONS (BY THE COUNTY, CITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

REVISIONS
24 OCT 2012 - FL'D/D. ROOF DECK

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
CR 240, COLUMBIA COUNTY, FLORIDA

AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd
Lake City, FL 32055
386/365-4355

JOINT VENTURED WITH

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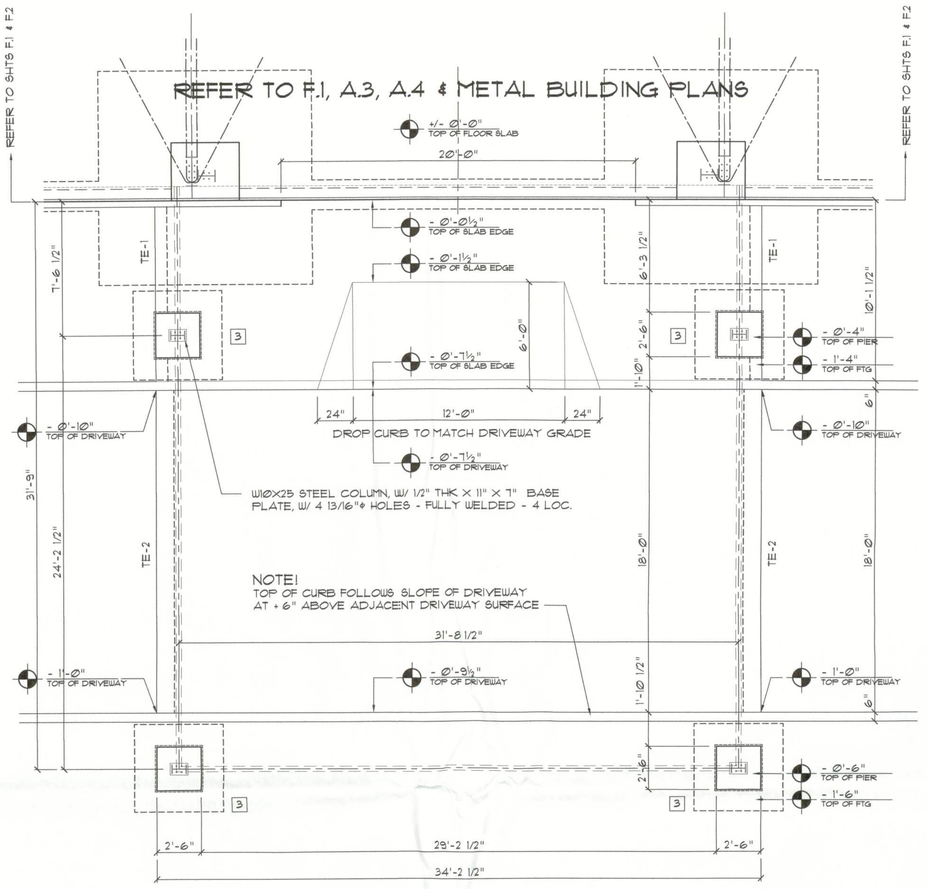
P.O. BOX 1513
LAKE CITY, FL 32056
(386) 758-8406
will@willmyers.net

JOB NUMBER
2K1260

DATE:
11 SEP 2012

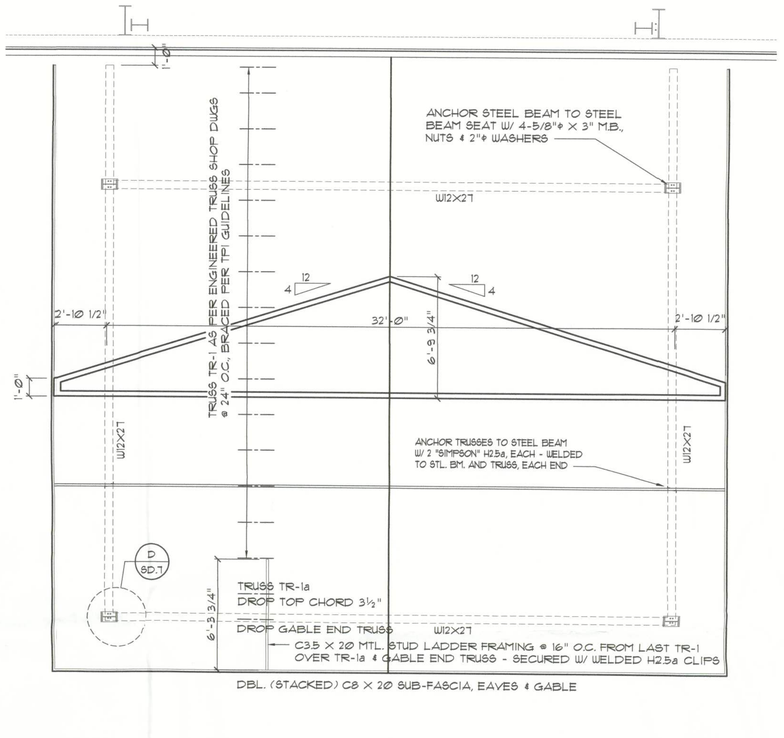
SHEET NUMBER
SD.2
OF 7 SHEETS



Canopy Entry END PLAN

SCALE: 1/4" = 1'-Ø"

North



DBL. (STACKED) C8 X 20 SUB-FASCIA, EAVES & GABLE

Canopy Entry Roof PLAN

SCALE: 1/4" = 1'-Ø"

GENERAL STRUCTURAL NOTES

CFMF TRUSSES: (DELEGATED ENGINEERED SHOP DRAWING REQUIRED)

1. TRUSSES SHALL BE DESIGNED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO SHALL BE ASSIGNED AS A DELEGATED ENGINEER FOR THE CONTRACTOR. THE DELEGATED ENGINEER DESIGN AND INDICATE ON THE SHOP DRAWINGS ALL TRUSS COMPONENTS, TEMPORARY BRACING, BRIDGING, HARDWARE, METAL HANGERS, ANCHORS AND METAL SHAPES AS REQUIRED BY DESIGN OR AS INDICATED ON THE PLANS. ALL METAL PARTS TO BE GALVANIZED.

2. TRUSS DESIGNER ENGINEER SHALL INDICATE THE NET WIND UPLIFT REACTIONS FOR EACH TRUSS AND GIRDER TRUSS. EACH TRUSS SHALL BE STRAPPED TO THE SUPPORT WITH A HURRICANE STRAP (AS PER DETAIL ON PLAN). THE SIZE OF STRAP AND AMOUNT OF NAILS SHALL BE SELECTED BASED ON THE UPLIFT DATA OF THE STRAP AND THE TRUSS SHOP DRAWINGS.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).

TUBE AND PIPE COLUMNS TO BE CONCRETE FILLED WITH VENT HOLES TOP, MIDDLE AND BOTTOM.

3. ALL COLUMN BASE AND CAP PLATES SHALL BE 3/4" THICK (UNLESS OTHERWISE NOTED). WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.

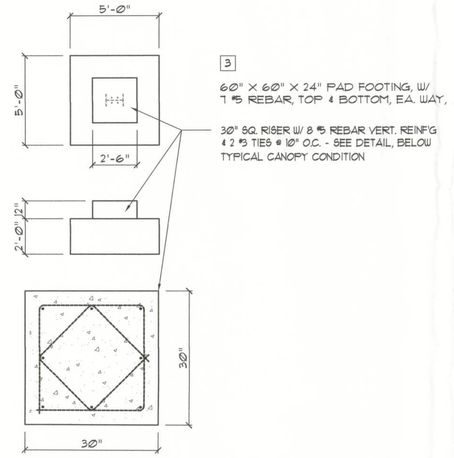
4. ALL WELDING TO BE IN ACCORDANCE WITH AWS, LATEST "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

NOTE!
REFER TO SHEET F.1 FOR GENERAL STRUCTURAL INFORMATIONAL NOTES AND DESIGN CRITERIA



3

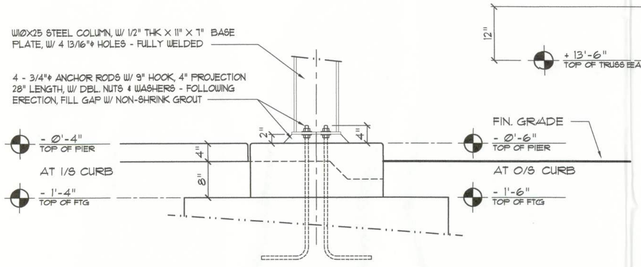
6Ø" X 6Ø" X 24" PAD FOOTING, W/ 7 #5 REBAR, TOP & BOTTOM, E.A. WAY,

3Ø" SQ. RISER W/ 8 #5 REBAR VERT. REINF'G & 2 #3 TIES @ 1Ø" O.C. - SEE DETAIL, BELOW TYPICAL CANOPY CONDITION

Pier /Ftg DETAIL

SCALE: 1/4" = 1'-Ø" / 3/4" = 1'-Ø"

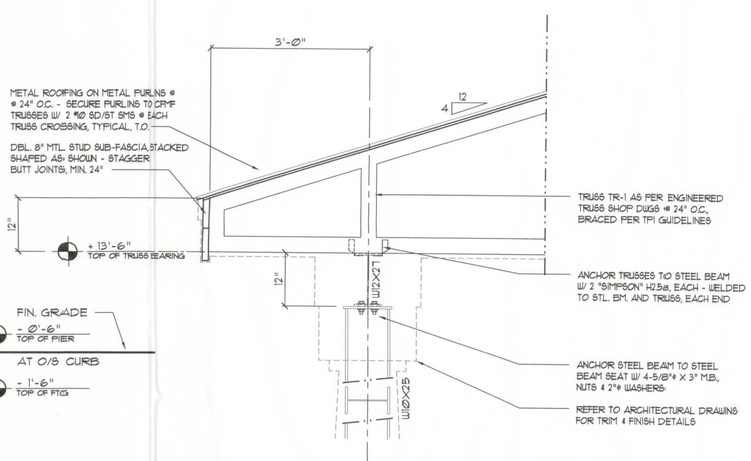
A



Canopy Entry Col. BASE

SCALE: 3/4" = 1'-Ø"

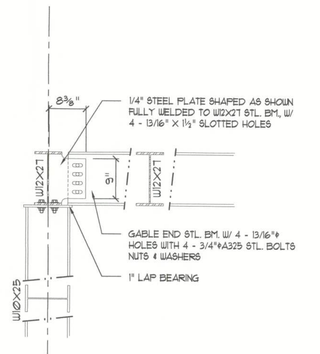
B



Canopy Entry Roof SEC.

SCALE: 3/4" = 1'-Ø"

C



BM. to BM.

SCALE: 3/4" = 1'-Ø"

D

REVISIONS
15 OCT 2012 - METAL TRUSSES
24 OCT 2012 - METAL ROOFING

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
CR 240, COLUMBIA COUNTY, FLORIDA

AR0007006

NICHOLAS PAUL GESLER ARCHITECT
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386/365-4355

JOINT VENTURED WITH

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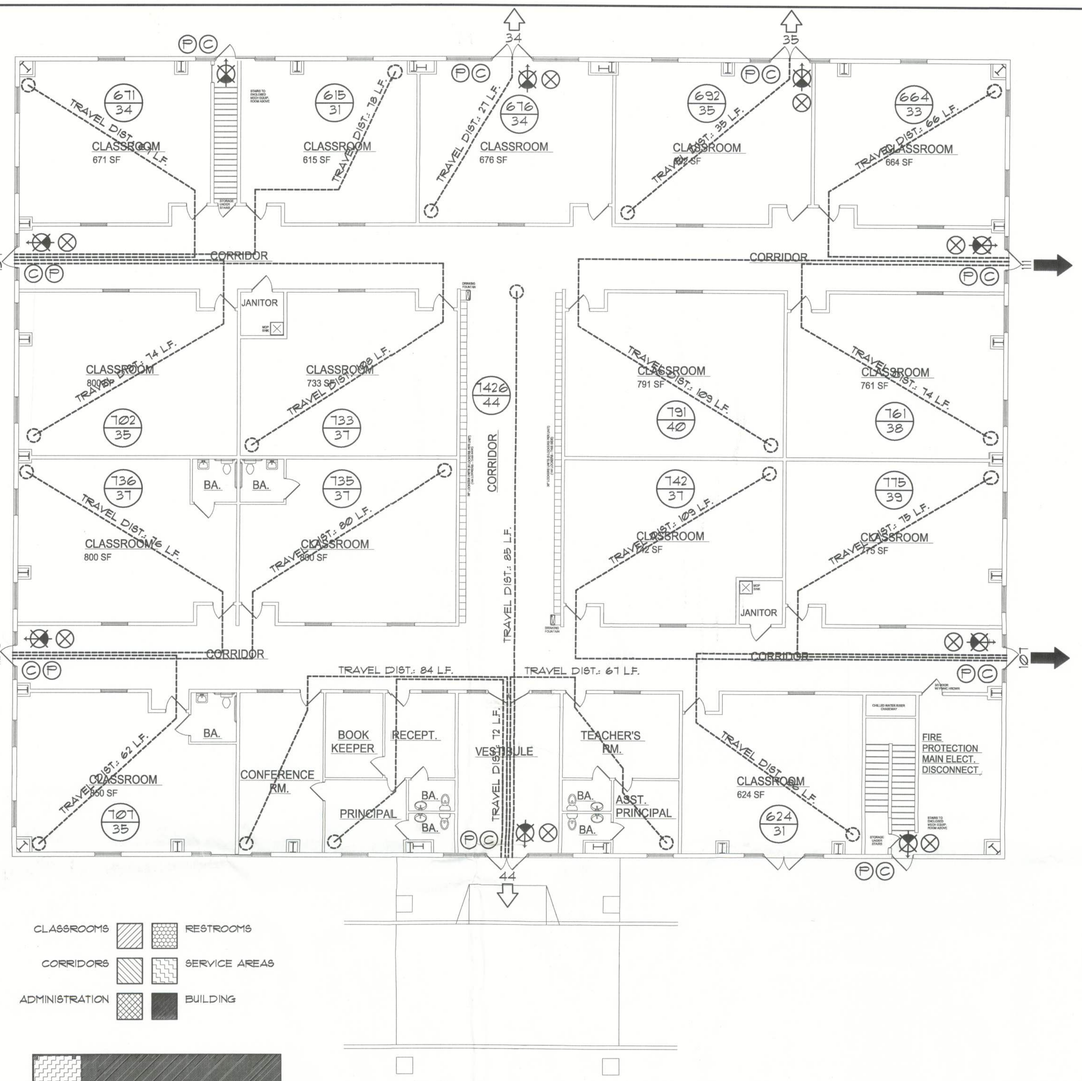
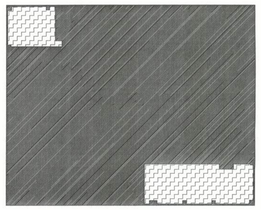
(386) 758-8406
will@willmyers.net

JOB NUMBER
2K1260

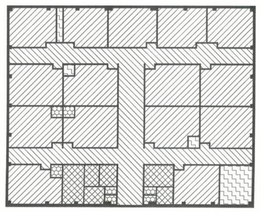
DATE:
11 SEP 2012

SHEET NUMBER
SD.7
OF 7 SHEETS





AREA USE PLAN - 2nd FLOOR
SCALE: NONE



AREA USE PLAN - 1st FLOOR
SCALE: NONE

1st Floor Life Safety PLAN

SCALE: 3/32" = 1'-0"

WET-PIPE SPRINKLER SYSTEM

THIS BUILDING SHALL BE EQUIPPED WITH A WET-PIPE SPRINKLER SYSTM, DESIGNED BY A LICENSED FIRE PROTECTION ENGINEER OR FIRE PROTECTION SYSTEM DESSIGNER CERTIFIED BY "NICET" TO A LEVEL THREE MINIMUM AND ENGAGED IN DESIGN OF FIRE PROTECTION SYSTEMS.
SEE GENERAL NOTES FOR ADDITIONAL SYSTEM REQUIREMENTS

EXIT ACCESS TRAVEL DISTANCE PER FBC 1015, TABLE 1015.1

OCCUPANCY - EDUCATIONAL
150 FT. (W/O SPRINKLER SYSTEM)
250 FT/ (W/SPRINKLER SYSTEM)

2010 FBC-BUILDING, TABLE 1004.1.1

MAXIMUM FLOOR AREA ALLOWABLE PER OCCUPANT

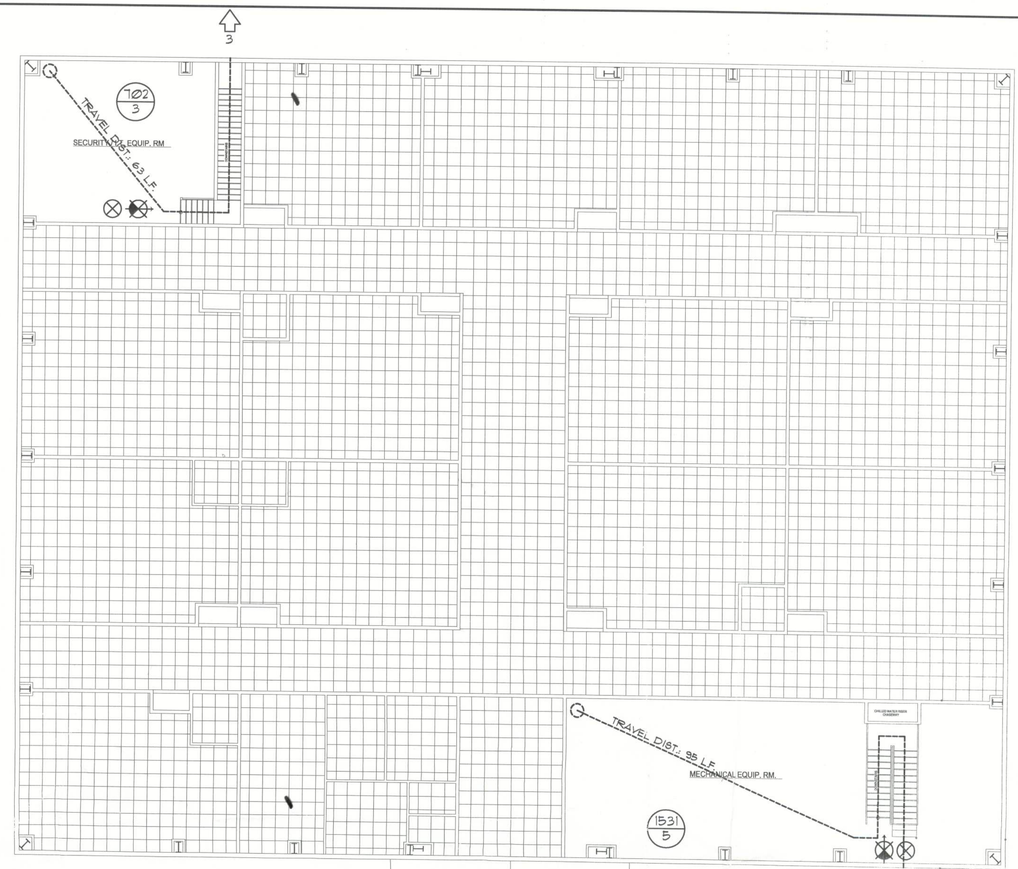
OCCUPANCY CLASSIFICATION	FLOOR AREA	MAX ALLOWABLE AREA PER OCCUPANT	NUMBER OF OCCUPANTS
CLASSROOMS	10552.7	@ 1/20 SF	526.1
ADMINISTRATION	652.9	@ 1/100 SF	6.5
CONFERENCE	293.6	@ 1/15 SF	19.6
REST ROOMS	271.4	@ 1/50 SF	5.4
CORRIDOR	4217.7	# @ 1/300 SF	14.1
SERVICE	611.4	@ 1/300 SF	2.1
BUILDING	1424.3	# @ 1/500 SF	2.8
GROUND FLOOR	18058.0		577.0
MECH. EQUIP. LOFT	1530.7	@ 1/300 SF	5.1
I/T LOFT	702.3	@ 1/300 SF	2.3
TOTAL BUILDING	20283.0		584.4

#NOT DEFINED IN TABLE

NOTE!
LSP FLOOR PLAN & THIS TABLE NOT CONSISTANT DUE TO ROUNDING UP OF CLASSROOM OCCUPANTS ON THE LIFE SAFETY PLAN

LEGEND

- EXIT LIGHT - ARROW REPRESENTS DIRECTION OF EXIT
- HD — HEAT DETECTOR - COORDINATE WITH ELECTRICAL DWGS.
- WALL HUNG "ABC" FIRE EXTINGUISHER
- C — DOOR /CLOSER FOR EXITING OR RATING REASONS
- F — PANIC DEVICE
- 999 / 30 — ROOM SQUARE FOOTAGE / ROOM OCCUPANCY LOAD
- 165 — PRIMARY EGRESS W/EXIT CAPACITY
- SECONDARY EGRESS
- 1 HOUR FIRE RATED WALL
- 2 HOUR FIRE RATED WALL



Service Loft Life Safety PLAN

SCALE: 3/32" = 1'-0"

FIRE/INTRUSION ALARM SYSTEM

THIS BUILDING SHALL BE EQUIPPED WITH A SELF-CONTAINED FIRE ALARM - INTRUSION ALARM SYSTEM, THE OPPERATION OF WHICH SHALL ALERT THE BUILDING OCCUPANTS AND NOTIFY THE 911 EMERGENCY RESPONSE SYSTEM. EQUIPMENT AND SERVICE PROVIDER SHALL BE AS SELECTED BY THE OWNER, DETAILS OF INSTALLATION SHALL BE VIA SHOP DRAWINGS AND OPPERATING FEATURES SHALL BE AS REQUIRED BY NFPA 101, 2003 EDITION, "LIFE SAFETY CODE" SECTION 4.3.4

NOTE!
EMERGENCY LIGHTING AND EXIT SIGNS, SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHAL, AND SHALL BE WIRED PER NEC 700-12F.

NOTE!
SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM EACH STORE PANEL W/BATTERY BACKUP

-1210.27

1st Set

REVISIONS
1

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
C.R. 242 COLUMBIA COUNTY, FLORIDA

16 Wilson

AR0007005

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JOB NUMBER
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15 OCT 2012

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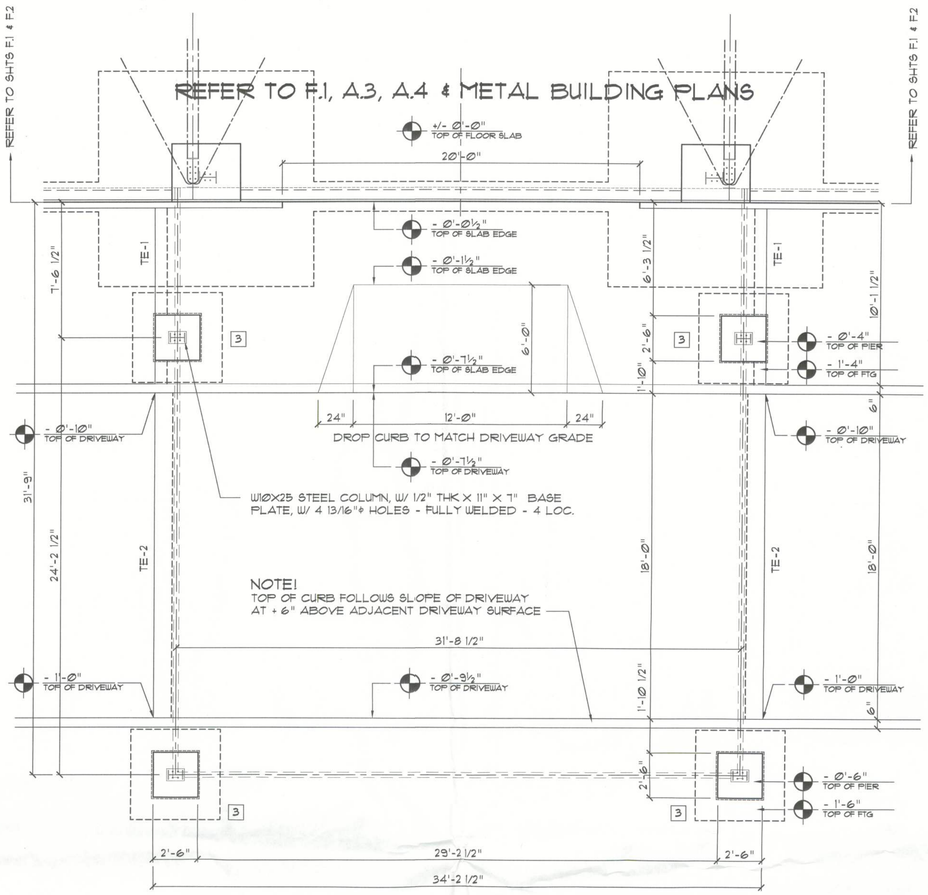
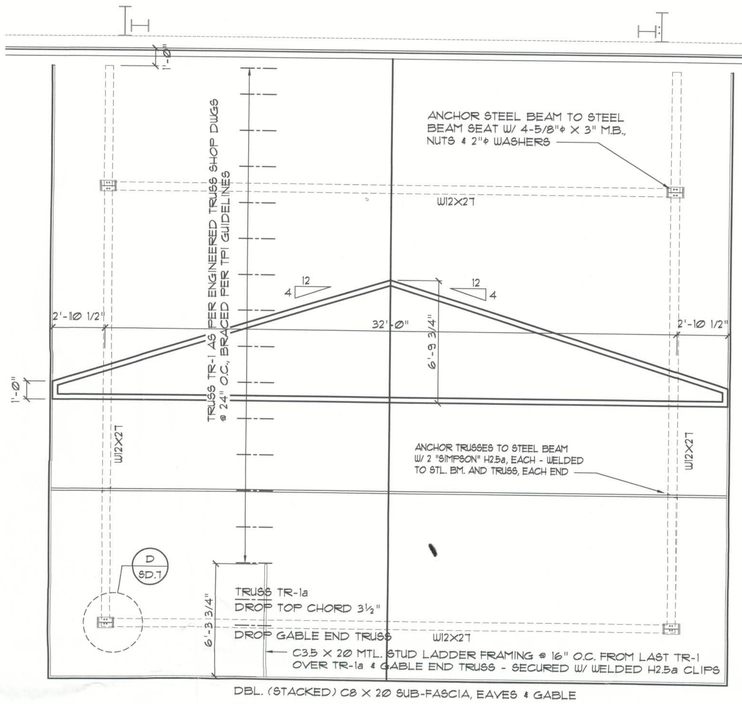
LSP.1
OF 1 SHEETS



Canopy Entry END PLAN

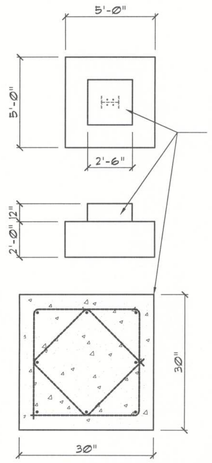
SCALE: 1/4" = 1'-Ø"

North



Canopy Entry Roof PLAN

SCALE: 1/4" = 1'-Ø"



3

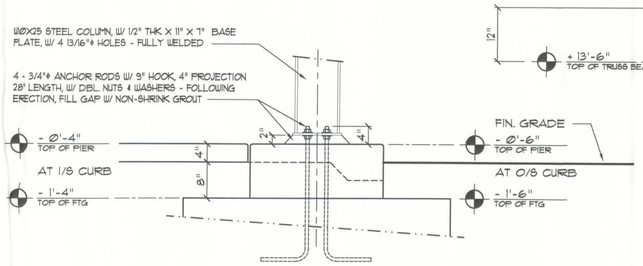
6Ø" X 6Ø" X 24" PAD FOOTING, W/ 7 #5 REBAR, TOP & BOTTOM, EA. WAY.

3Ø" SQ. RISER W/ 8 #5 REBAR VERT. REINF'G & 2 #3 TIES @ 1Ø" O.C. - SEE DETAIL, BELOW TYPICAL CANOPY CONDITION

Pier /Ftg DETAIL

SCALE: 1/4" = 1'-Ø" / 3/4" = 1'-Ø"

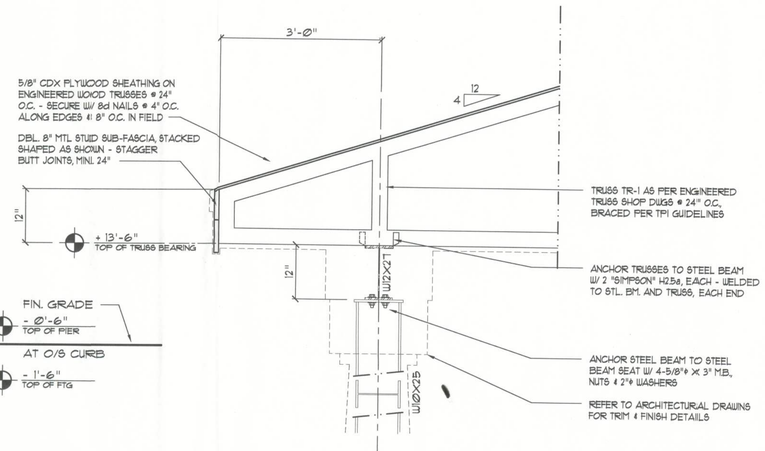
A



Canopy Entry Col. BASE

SCALE: 3/4" = 1'-Ø"

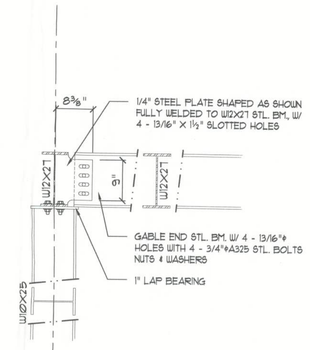
B



Canopy Entry Roof SEC.

SCALE: 3/4" = 1'-Ø"

C



BM. to BM.

SCALE: 3/4" = 1'-Ø"

D

GENERAL STRUCTURAL NOTES

CFMF TRUSSES: (DELEGATED ENGINEERED SHOP DRAWING REQUIRED)

1. TRUSSES SHALL BE DESIGNED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO SHALL BE ASSIGNED AS A DELEGATED ENGINEER FOR THE CONTRACTOR. THE DELEGATED ENGINEER DESIGN AND INDICATE ON THE SHOP DRAWINGS ALL TRUSS COMPONENTS, TEMPORARY BRACING, BRIDGING, HARDWARE, METAL HANGERS, ANCHORS AND METAL SHAPES AS REQUIRED BY DESIGN OR AS INDICATED ON THE PLANS. ALL METAL PARTS TO BE GALVANIZED.

2. TRUSS DESIGNER ENGINEER SHALL INDICATE THE NET WIND UPLIFT REACTIONS FOR EACH TRUSS AND GIRDER TRUSS. EACH TRUSS SHALL BE STRAPPED TO THE SUPPORT WITH A HURRICANE STRAP (AS PER DETAIL ON PLAN). THE SIZE OF STRAP AND AMOUNT OF NAILS SHALL BE SELECTED BASED ON THE UPLIFT DATA OF THE STRAP AND THE TRUSS SHOP DRAWINGS.

PLYWOOD ROOF DIAPHRAGM:

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "A.P.A. DESIGN/CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.

2. PLYWOOD ROOF DECKING SHALL BE 19/32" MINIMUM THICKNESS, CDX TYPE AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.

3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 10d GALV. NAILS, SPACED AT 6" O.C. MAX. AT SUPPORTED EDGES AND AT 6" O.C. ALONG THE INTERMEDIATE SUPPORTS.

GABLE ENDS NAIL SPACING SHALL BE 4" ON CENTERS MAXIMUM.

4. INSPECTIONS: COMPLY WITH THE LOCAL BUILDING CODE AND OTHER REQUIREMENTS FOR INSPECTIONS (BY THE COUNTY, CITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (F_y=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (F_y=46 K.S.I.).

TUBE AND PIPE COLUMNS TO BE CONCRETE FILLED WITH VENT HOLES TOP, MIDDLE AND BOTTOM.

3. ALL COLUMN BASE AND CAP PLATES SHALL BE 3/4" THICK (UNLESS OTHERWISE NOTED). WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.

4. ALL WELDING TO BE IN ACCORDANCE WITH AWS, LATEST "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

NOTE!
REFER TO SHEET F.1 FOR GENERAL STRUCTURAL INFORMATIONAL NOTES AND DESIGN CRITERIA

REVISIONS
15 OCT 2012 - METAL TRUSSES

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
CR 240, COLUMBIA COUNTY, FLORIDA

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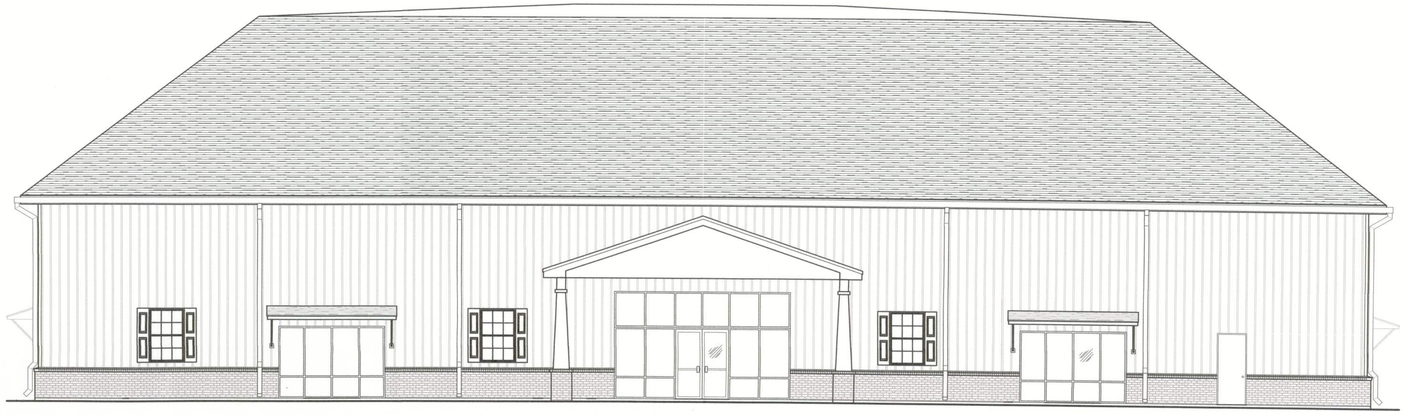
JOB NUMBER
2K1260

DATE:
11 SEP 2012

SHEET NUMBER
SD.7
OF 7 SHEETS

Drawing Index

+ SLAB PERMIT



BELMONT ACADEMY for:
MOUNTAINTOP MINISTRIES WORLDWIDE
COUNTY ROAD 240
COLUMBIA CITY, FLORIDA

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E. jwells@cea-engineers.com
#EB 0003962

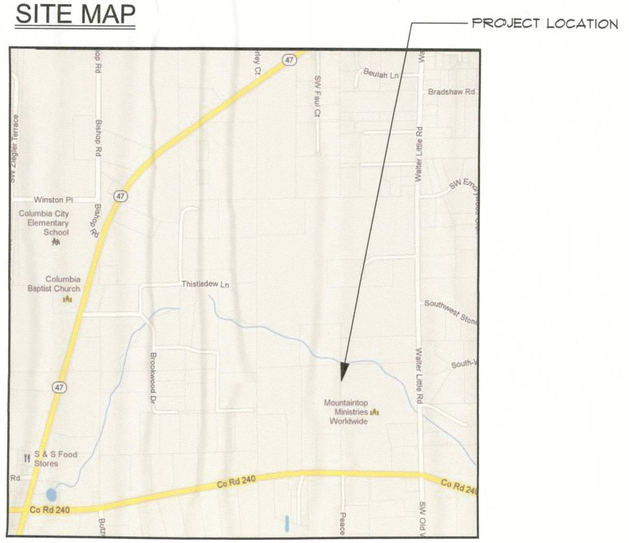
DESIGN DATA / BUILDING CODES:

BUSINESS OCCUPANCY: GROUP 'E' - EDUCATIONAL
MAXIMUM OCCUPANCY: 720 PERSONS
MEANS OF EGRESS CAPACITY: 150 PER 3/0 DOOR. MAX TRAVEL DISTANCE: < 125'
TYPE OF CONSTRUCTION: TYPE VI, PROTECTED (SPRINKLERED)
PROPOSED AREA: 18,000 FT2 TOTAL CONDITIONED SPACE
PROPOSED HEIGHT: 2 STORIES
BUILDING IS NOT IN A FLOOD ZONE
BUILDING IS NOT IN THE HIGH VELOCITY HURRICANE ZONE
BUILDING IS NOT IN THE WIND-BORNE DEBRIS REGION
SCOPE OF WORK HAS BEEN DESIGNED AND SHALL BE CONSTRUCTED WITH THESE APPLICABLE CODES:

Florida Building Code, Building (FBC-B)	2010 Edition
Florida Building Code, Mechanical (FBC-M)	2010 Edition
Florida Building Code, Fule Gas (FBC-FG)	2010 Edition
Florida Building Code, Plumbing (FBC-P)	2010 Edition
Florida Building Code, Existing Building (FBC-EB)	2010 Edition
Florida Fire Prevention Code (FFPC)	Latest Edition
National Electrical Code (NEC)	Latest Edition

PER FLORIDA BUILDING CODE 2010, SECTION 1609.2 (FOR ENCLOSED SIMPLE DIAPHRAGM BUILDINGS WITH FLAT, HIPPED AND GABLE-SHAPED ROOFS HAVING A MEAN ROOF HEIGHT NOT EXCEEDING THE LEAST HORIZONTAL DIMENSION OF THE BUILDING OR 60 FT; NOT SITED ON THE UPPER HALF OF A HILL OR ESCARPMENT 60FT IN EXPOSURE B, 30FT IN EXPOSURE C AND >10% SLOPE AND UNOBSTRUCTED UPWIND FOR 50x HEIGHT OR 1 MILE WHICHEVER IS LESS.)

SITE MAP



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COLUMBIA COUNTY BUILDING DEPARTMENT — Received for FILE COPY — Code Compliance — EXAMINER

REVISIONS
October 12, 2012

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BELMONT ACADEMY FOR:
MOUNTAINTOP MINISTRIES
5037 SR 240, LAKE CITY, FLORIDA 32024

Nicholas Paul Geisler
AR0007005

Celebrating 40 Years of Service
1972 2012
N.P. Geisler, Architect AR0007005

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JOB NUMBER
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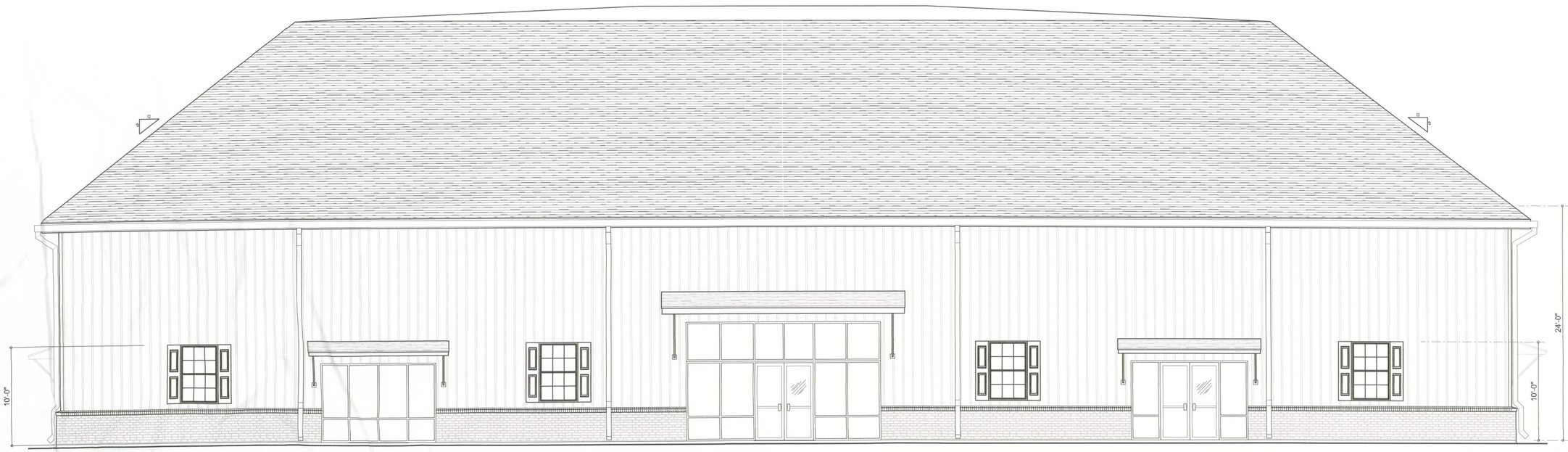
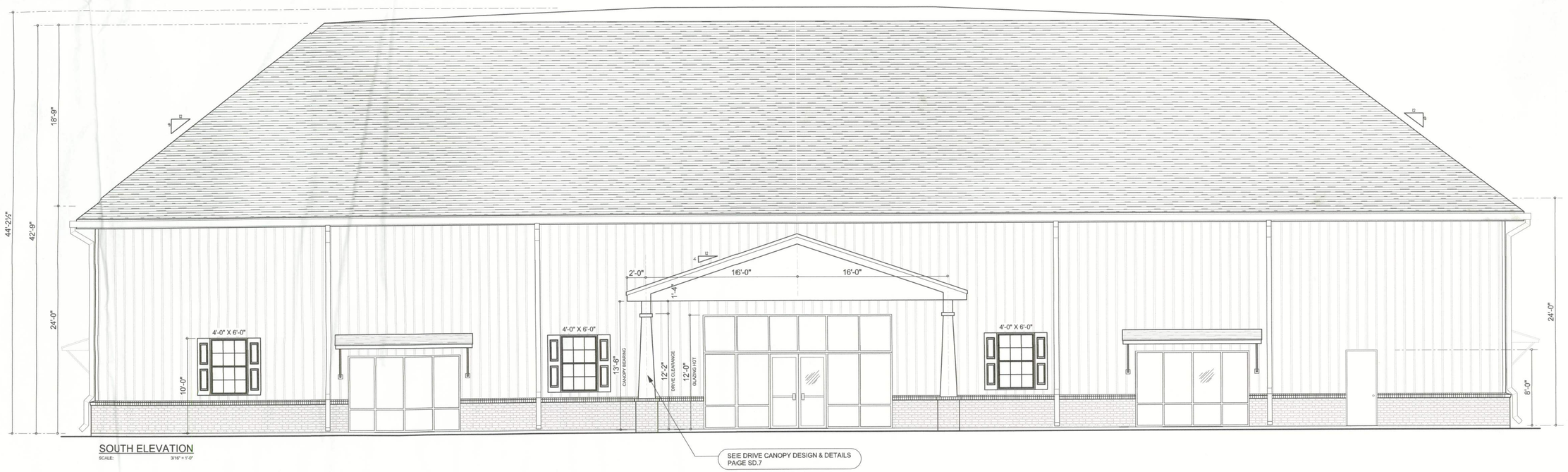
DATE:
21 SEPT 2012

COVER



NORTH ELEVATION
SCALE: 3/16" = 1'-0"



SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

REVISIONS
September 20, 2012

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DATE:
31 JUL 2012

SHEET NUMBER
A.1
OF 4 SHEETS

MOUNTAINTOP MINISTRIES WORLDWIDE

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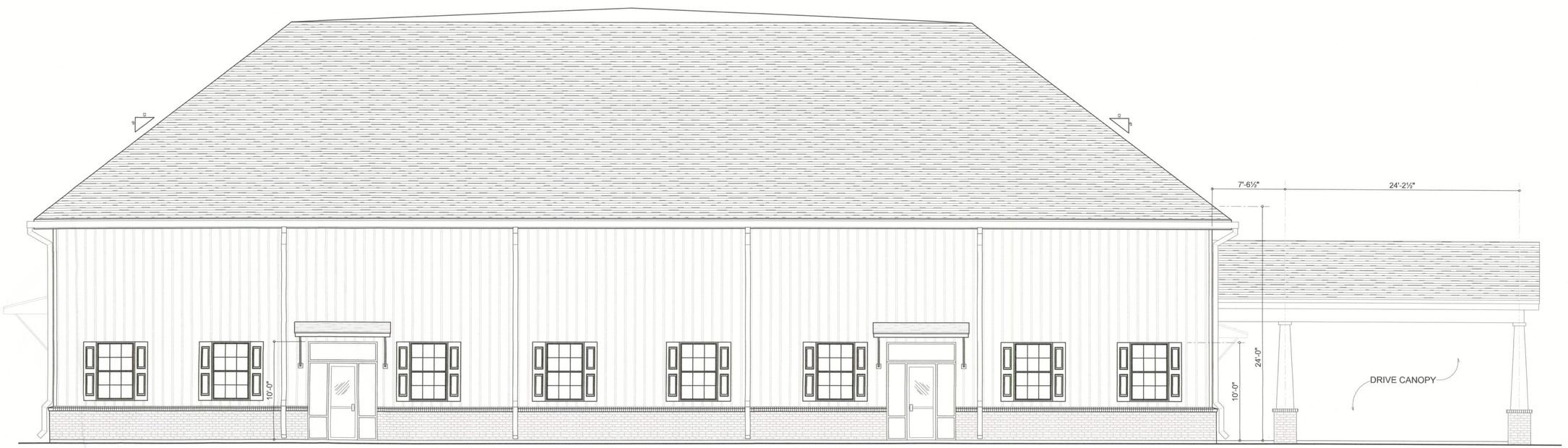
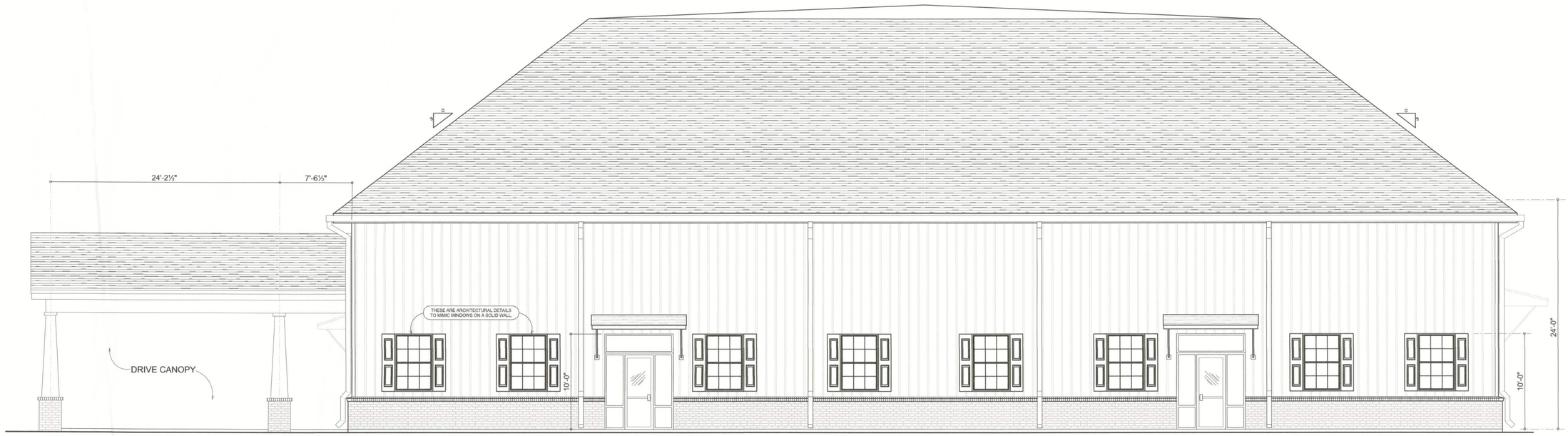


LEFT ELEVATION (WEST)

SCALE: 3/16" = 1'-0"



RIGHT ELEVATION (EAST)

SCALE: 3/16" = 1'-0"

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September 20, 2012

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BELMONT ACADEMY FOR:

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1972 - 2012
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A.2
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MOUNTAINTOP MINISTRIES WORLDWIDE

DIMENSIONED FLOOR PLAN

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

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

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October 12, 2012

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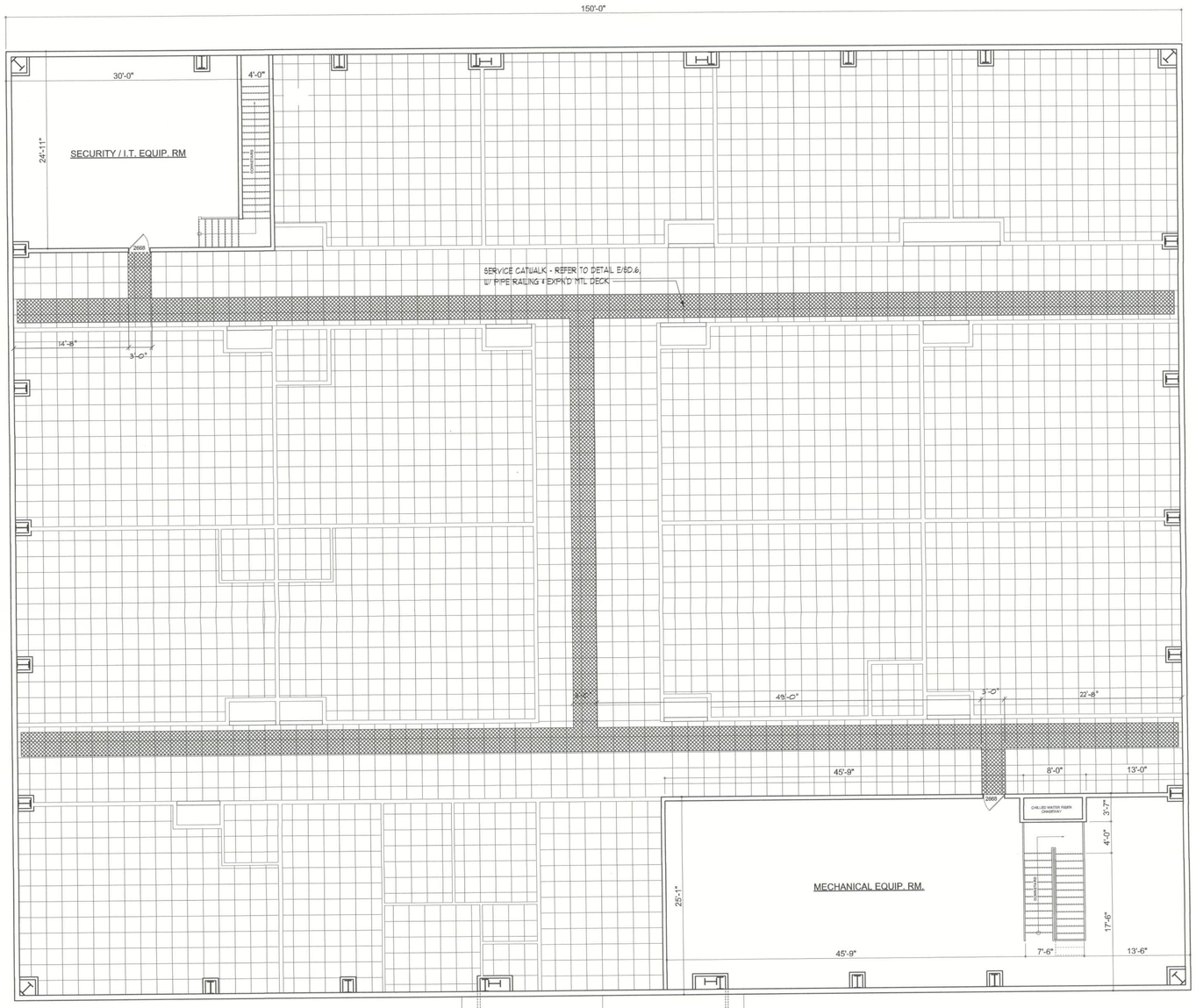
MOUNTAINTOP MINISTRIES WORLDWIDE



2ND FLOOR PLAN / REFLECTED CEILING PLAN

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

NOTE: ALL DRAWINGS NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS

REVISIONS
September 20, 2012

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MOUNTAINTOP MINISTRIES WORLDWIDE

GENERAL STRUCTURAL NOTES

GENERAL

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AID TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE - SECTION 1604 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "C"

BASED ON ANSI/ASCE 7-10. 2010 FBC 1609-A WIND VELOCITY: V_{ULT} = 140 MPH, V_{ASD} = 108 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: ..... 20 PSF
SUPERIMPOSED LIVE LOADS: ..... 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: ..... 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL ..... 50 PSF
BALCONIES/CORRIDORS ..... 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2010 FBC TABLE 503 AND TABLE 600

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF MINIMUM. FOR REQUIRED SOIL BEARING CAPACITIES GREATER THAN 1,000 PSF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 95 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. BOTTOM OF ALL FOOTINGS TO BE A MINIMUM 1'-6" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

8. WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS OF THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING PRESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEEDS PRESSURES INDICATED HEREIN.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT LOC. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION), PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT HEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS:	(BOTTOM) ..... 3"
	(TOP & SIDES) ..... 2"
SLABS ON GRADE:	CENTERED W/SLAB

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

NOTE!
REFER TO THE METAIL BUILDING SHOP DRAWINGS PREPARED BY MESCO METAL BUILDINGS, INC., FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA LIFT SHALL BE CONPACTED TO 95% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 140 MPH PER 2010 FBC 1609 AND LOCAL JURISDICTION REQUIREMENTS

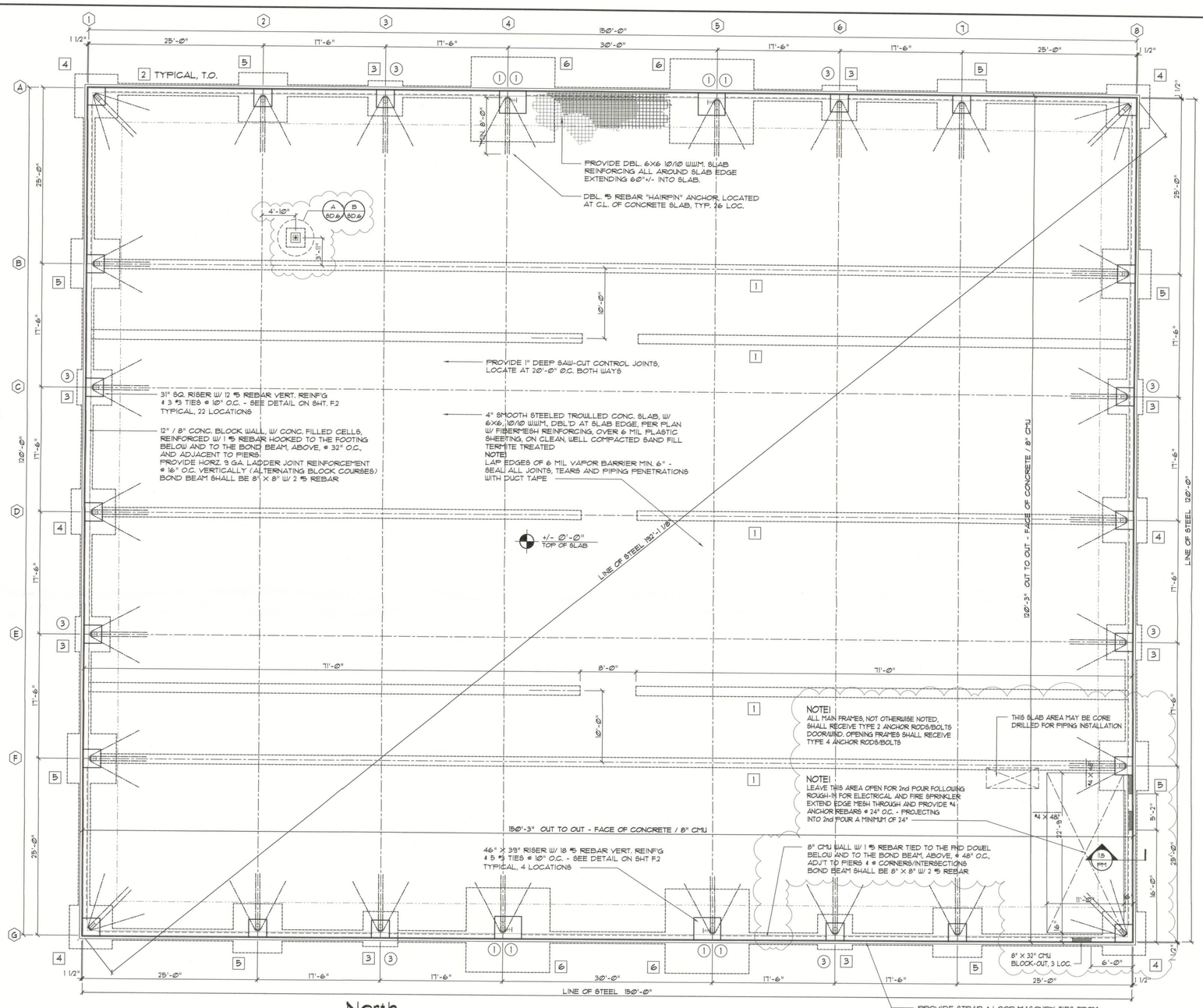
NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30'-0", EXPOSURE "B"

	ZONE	AREA	Vult 140 MPH	Vult 120 MPH	Vult 130 MPH
ROOF 7° TO 27°	1	10	12.8 / -19.9	14.9 / -23.1	17.5 / -27.8
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.2
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6
	3	20	11.4 /-47.9	13.6 / -57.1	16.0 / -67.0
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 /-40.7
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3

HGT. & EXP. ADJMT COEFFICIENTS FOR BLDG COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"
15	1.00	1.21
20	1.00	1.29
25	1.00	1.35
30	1.00	1.40



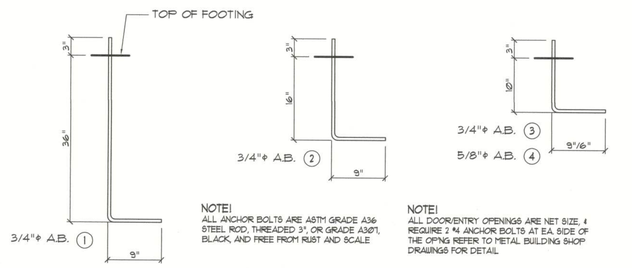
Foundation PLAN

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

North

FOOTING SCHEDULE

1. 16" X 12" X CONT., MONO., FOOTING, W/ 2 #5 REBAR, BOT. & CONT. ALL INTERIOR STRIP FOOTINGS
2. 20" X 12" X CONTINUOUS, FOOTING, W/ 2 #5 REBAR, BOT. & CONT. ALL PERIMETER STRIP MONO. FTGS
3. 60" X 60" X 24" PAD FOOTING, W/ 7 #5 REBAR, TOP & BOTTOM, E.A. WAY,
4. 76" X 76" X 37" PAD FOOTING, W/ 9 #5 REBAR, TOP & BOTTOM, E.A. WAY,
5. 84" X 84" X 24" PAD FOOTING, W/ 10 #5 REBAR, TOP & BOTTOM, E.A. WAY,
6. 144" X 144" X 37" PAD FOOTING, W/ 17 #6 REBAR, TOP & BOTTOM, E.A. WAY,



NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3", OR GRADE A307, BLACK, AND FREE FROM RUST AND SCALE

NOTE!
ALL DOOR/ENTRY OPENINGS ARE NET SIZE, & REQUIRE 2 #4 ANCHOR BOLTS AT EA. SIDE OF THE OPNG REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL

Anchor Bolt DETAILS

SCALE: 1" = 1'-0"

1 2 3 4

ANCHOR BOLT / FOUNDATION SIZING:

THE ANCHOR BOLT DIAMETERS AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMINED USING SHEAR FRICTION THEORY AS DESCRIBED IN AISC DESIGN GUIDE NO.1, SECTION 9.2, ASSUMING AN ANCHOR BOLT MATERIAL OF ASTM A307 OR A36. THE COMBINED FORCES ACTING AT THE BASE OF THE STEEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:

T = Td + Tsf

WHERE
T = TOTAL TENSILE FORCE PER BOLT
Td = TENSILE FORCE PER BOLT DUE TO DIRECTLY APPLIED LOAD = P/N
Tsf = TENSILE FORCE PER BOLT DUE TO SHEAR FRICTION = V / (n X u)

WHERE
P = P = TOTAL UPLIFT TO BE RESISTED BY ANCHOR BOLT GROUP
V = V = TOTAL SHEAR FORCE TO BE RESISTED BY ANCHOR BOLT GROUP
n = n = NUMBER OF ANCHOR BOLTS
u = u = COEFFICIENT OF FRICTION (TAKEN AS Ø.1 FOR UNGROUTED BASE PLATES OR Ø.9 FOR GROUTED BASE PLATES)

REVISIONS
30 AUG 2012 - FTG 1 & 2, PIERS
11 SEP 2012 - PIPE POST W/ FTG
17 SEP 2012 - 2nd POUR SLAB AREA

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

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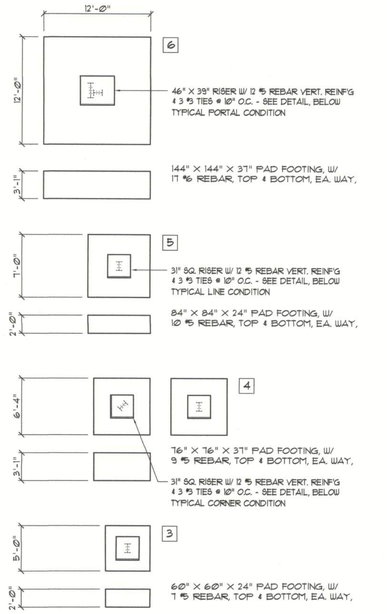
will@willmyers.net

JOB NUMBER
2K1260

DATE:
23 AUG 2012

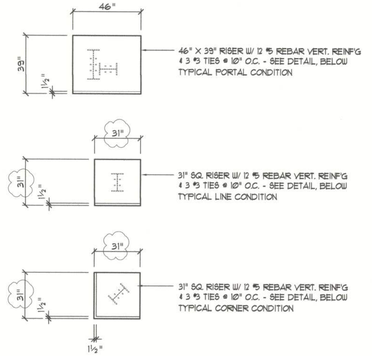
SHEET NUMBER
F.1
OF 2 SHEETS

FIELD "AS-BUILT" NOTES

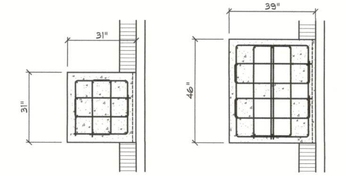


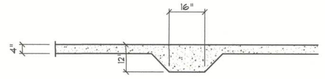
Footing DETAILS A

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



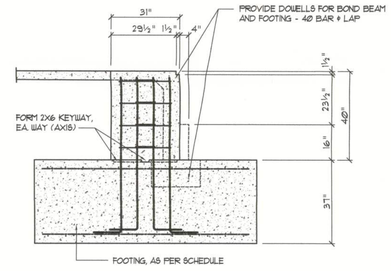
SCALE: 1/4" = 1'-0"





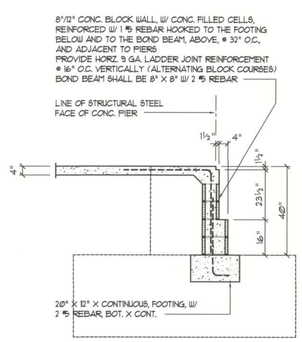
Mono. Ftg. DET. C

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



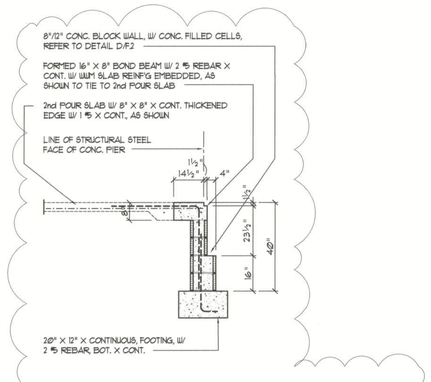
Pier DETAILS B

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



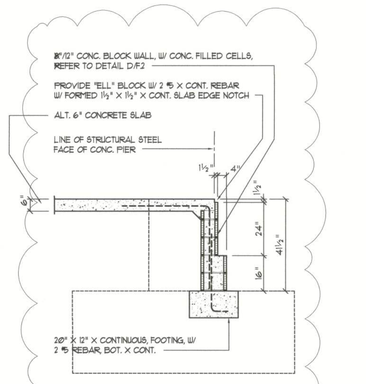
Stemwall DET. D

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



2nd Pour Slab @ Stemwall DETAIL E

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



Alternate Stemwall DET. F

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

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-8" O.C. VERTICALLY) LAPPED 7-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF POUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

REVISIONS
30 AUG 2012 - PIERS
17 SEP 2012 - SLAB DET & DET. ID

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITIES for:

BELMONT ACADEMY

CR. 240, COLUMBIA COUNTY, FLORIDA

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386/365-4355

JOINT VENTURED WITH

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AR0007005

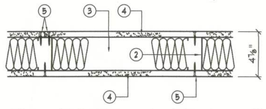
JOB NUMBER
2K1260

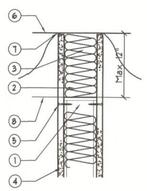
DATE:
23 AUG 2012

SHEET NUMBER
F.2
OF 2 SHEETS

Design No. U465

Nonbearing Wall Rating-1 Hr.





Section @ Head

1. Floor and Ceiling Runners - channel shaped runners, 3⅝" wide x 1" deep fabricated from 25 MSG galv. stl. attached to floor and Cee/Zee purlins at max. 5'-0" o.c., above with fasteners.

2. Studs - channel shaped 3⅝" wide x 1 5/16" deep w/ ⅜" folded back return. Fabricated from 25MSG galv. stl. Spaced @ 16" or 24" o.c. Length to be 1" less than assembly height.

3. Batts and Blankets*- (Optional) mineral wool or glass fiber batts partially or completely filling stud cavity.

4. Gypsum Wallboard*-⅝" thick, 4 ft. wide, attached to studs & runners w/ Type S self-drilling, self-tapping stl. screws, 1" long spaced max. 8" o.c. along edges of boards and max. 12" o.c. in field of boards. Joints oriented vertically and staggered on opposite sides of the assembly.
Canadian Gypsum Co. Ltd.-Types C, SCX, SHX, WRC or WRX.
U.S. Gypsum Co.-Types C, FCV, IPX2, SCX, SHC, SHX, WRC or WRX.

5. Joint Tape and Compound - Vinyl, dry or premixed joint compound applied in two coats to joints and screwheads - 2" paper tape embedded in 1st layer of compound over all joints. As an alternate nominal 3/32" thick gypsum veneer plaster may be applied to the entire surface of the Classified veneer baseboard joints reinforced.

6. Fit GWB tight to underside of roof deck, compressing PEMB roof insulation, and seal joint with 3M fire retardent joint caulking*.

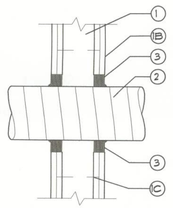
7. Metal Building roof deck.

8. Metal Building "Cee" or "Zee" Purlins @ max. 5'-0" o.c.

*Bearing the UL Classification Marking

U.L. Design No. WL-1017

1 Hr. Rated Penetration



3M FIRE PROTECTION PRODUCTS THIS MATERIAL WAS EXTRACTED BY 3M FIRE PROTECTION PRODUCTS FROM THE 1991 EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
345 METALLIC PIPE 1000 SERIES

UL SYSTEM NO. W-L-1017 (FORMERLY SYSTEM NO. 328) F RATINGS-
1 AND 2 HR. (SEE ITEM 3) T RATING-0 HR L RATING AT AMBIENT-LESS THAN 1 CFM/SQ FT L RATING AT 400 F-LESS THAN 1 CFM/SQ FT.LL

1. WALL ASSEMBLY - THE 1 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

A. STUDS- WALL FRAMING - STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.

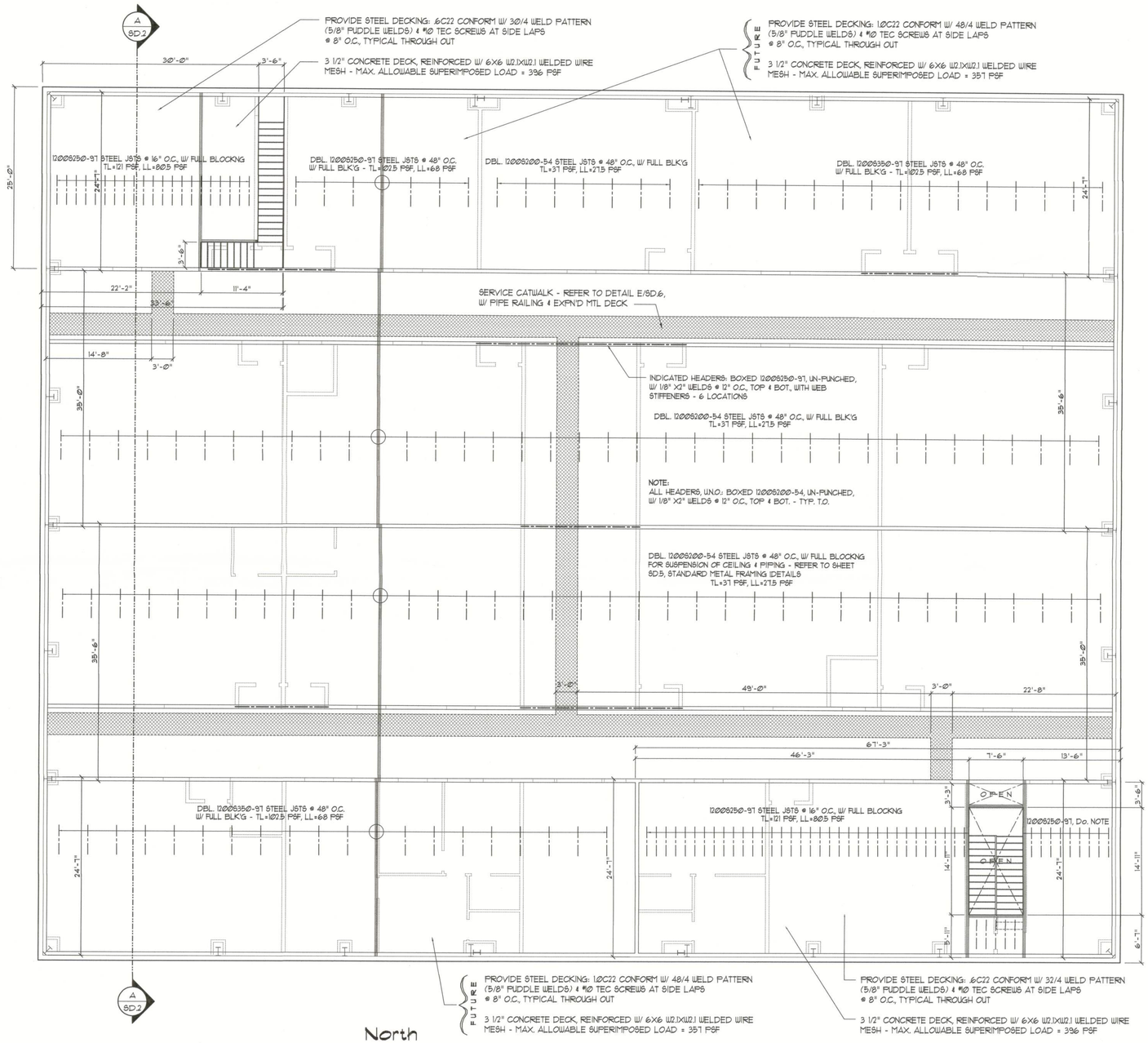
B. WALLBOARD, GYPSUM*- NOM 5/8 IN. THICK, 4 FT. WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. DIAM OF CIRCULAR THROUGH OPENING CUT THROUGH GYPSUM WALLBOARD ON EACH SIDE OF WALL ASSEMBLY TO BE MIN Ø IN. (POINT CONTACT) TO MAX 1 IN. LARGER THAN OUTSIDE DIAM OF FLEXIBLE METAL CONDUIT (ITEM 2) INSTALLED IN THROUGH OPENING. SIDE EDGE OF CIRCULAR OPENING TO BE MIN 3 IN. FROM NEAREST STUD IN WALL CAVITY.

C. FASTENERS- WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH TYPE S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS AS SPECIFIED IN THE INDIVIDUAL WALL OR PARTITION DESIGN.

2. THROUGH PENETRATING PRODUCT*- FLEXIBLE METAL CONDUIT-NOM 4 IN. DIAM (OR SMALLER) ALUMINUM OR STEEL FLEXIBLE METAL CONDUIT. MAX ONE FLEXIBLE METAL CONDUIT TO BE INSTALLED NEAR CENTER OF CIRCULAR OPENING IN GYPSUM WALLBOARD. FLEXIBLE METAL CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. AFC CABLE SYSTEMS, INC.

3. FILL, VOID OR CAVITY MATERIAL*- CAULK-CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE AROUND ENTIRE CIRCUMFERENCE OF THROUGH PENETRATING PRODUCT TO COMPLETELY FILL OPENING IN GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL ASSEMBLY. A MIN 5/8 IN. THICKNESS OF CAULK IS REQUIRED FOR THE 1 HR FIRE RATING. A MIN 1-1/4 IN.

MINNESOTA MINING & MFG. CO. - CP 25WB+
*BEARING THE UL CLASSIFICATION MARKING



North

Floor / Ceiling PLAN

SCALE: 1/8" = 1'-Ø"

REVISIONS
1 -

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
CR 240, COLUMBIA COUNTY, FLORIDA

AR0007005

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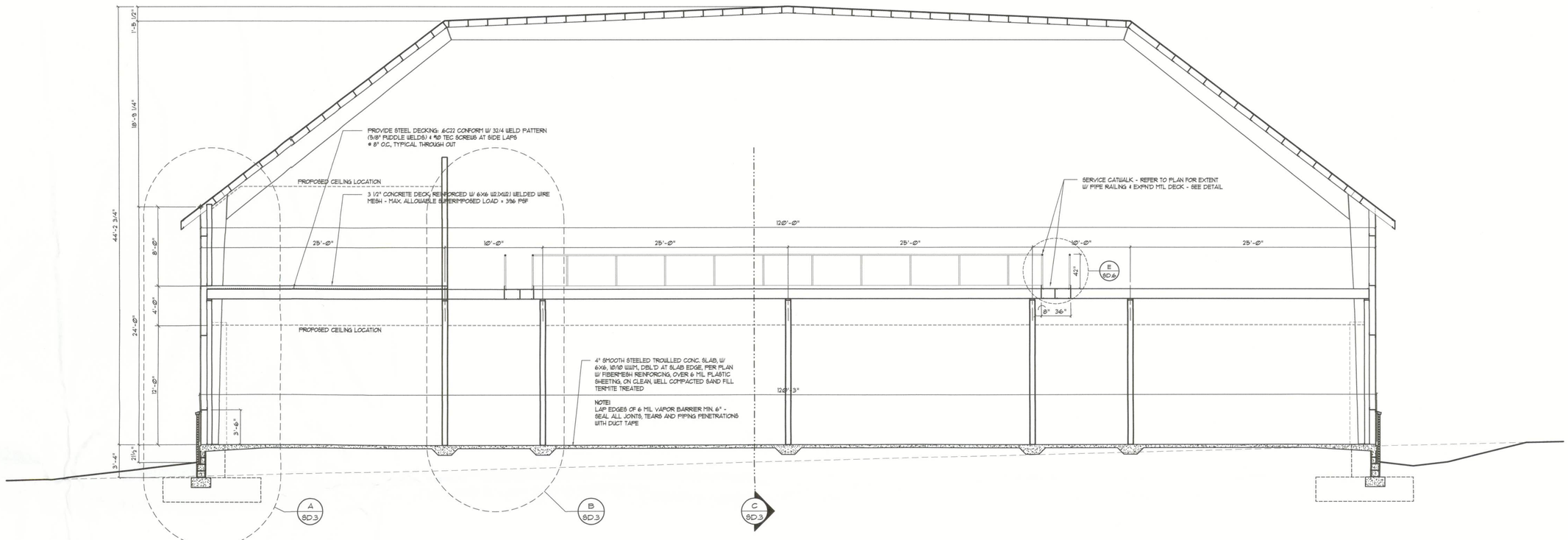
JOB NUMBER
2K1260

DATE:
11 SEP 2012

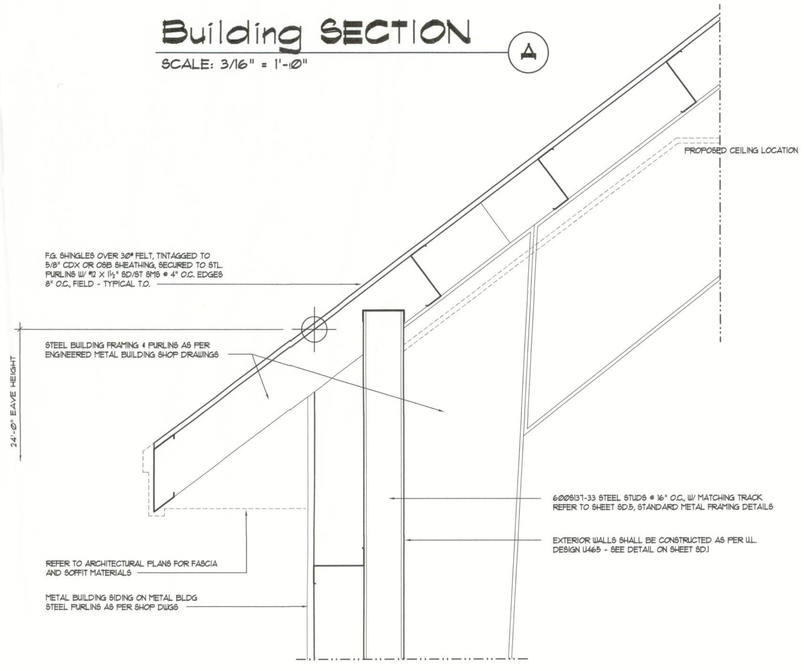
SHEET NUMBER
SD.1
OF 7 SHEETS



Building SECTION

A

SCALE: 3/16" = 1'-0"



Roof Eave DETAIL

B

SCALE: 1½" = 1'-0"

General Roofing NOTES:

DECK REQUIREMENTS:
ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

SLOPE:
ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 2:12 OR GREATER. FOR ROOF SLOPES FROM 2:12 TO 4:12, DBL. UNDERLAYMENT IS REQUIRED.

UNDERLAYMENT:
UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM W/ ASTM D 226, TYPE I, OR ASTM D 4869, TYPE I.

SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:
SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY W/ ASTM D 1970.

ASPHALT SHINGLES:
ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS:
FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE THE SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

ATTACHMENT:
ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER. SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC FA 107-95.

UNDERLAYMENT APPLICATION:
FOR ROOF SLOPES FORM 2:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS: STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

BASE AND CAP FLASHINGS:
BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ MFGR'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF.013 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF .013 INCH.

VALLEYS:
VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING TYPES SHALL BE PERMITTED.

1. OPEN VALLEYS LINED WITH METAL: THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN FBC TABLE 1507.3.9.2
2. OPEN VALLEYS: VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. CLOSED VALLEYS: VALLEY LINING SHALL BE ONE OF THE FOLLOWING:
   1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.
   2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
   3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 1970.

NOTE ! !

ROOF SHINGLES SHALL BE OF THE FOLLOWING MANUFACTURERS AND MODELS:

TAMKO ROOFING PRODUCTS

GLASS-SEAL AR
ELITE GLASS-SEAL AR
HERITAGE 30 AR
HERITAGE 40 AR
HERITAGE 50 AR

TAMKO REQUIRED NAILS/SHINGLE = 4

GAF MATERIALS CORPORATION

ROYAL SOVEREIGN
MARQUIS
WEATHER MAX
SLATELINE
GRAND CANYON
GRAND SEQUOIA
COUNTRY MANSION
COUNTRY ESTATES
TIMBERLINE 30
TIMBERLINE SELECT 40
TIMBERLINE ULTRA
SENTINEL

GAF REQUIRED NAILS/SHINGLE = 4

ELK PREMIUM ROOFING

RAISED PROFILE #
PRESTIGUE HIGH DEFINITION #
PRESTIGUE 25 #
PRESTIGUE 30 #
PRESTIGUE I 35 #
PRESTIGUE I #
PRESTIGUE PLUS #
PRESTIGUE GALLERY COLLECTION #
CAPSTONE #

ELK REQUIRED NAILS/SHINGLE = 4

= 5 NAILS
* = 6 NAILS

THESE SHINGLES MEET THE REQUIREMENTS OF ASTM D-3161 TYPE I MODIFIED TO 130 MPH WINDS & FBC TAS 100, USING THE SPECIFIED NAILS

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
CR. 240, COLUMBIA COUNTY, FLORIDA

NICHOLAS PAUL GEISLER ARCHITECT
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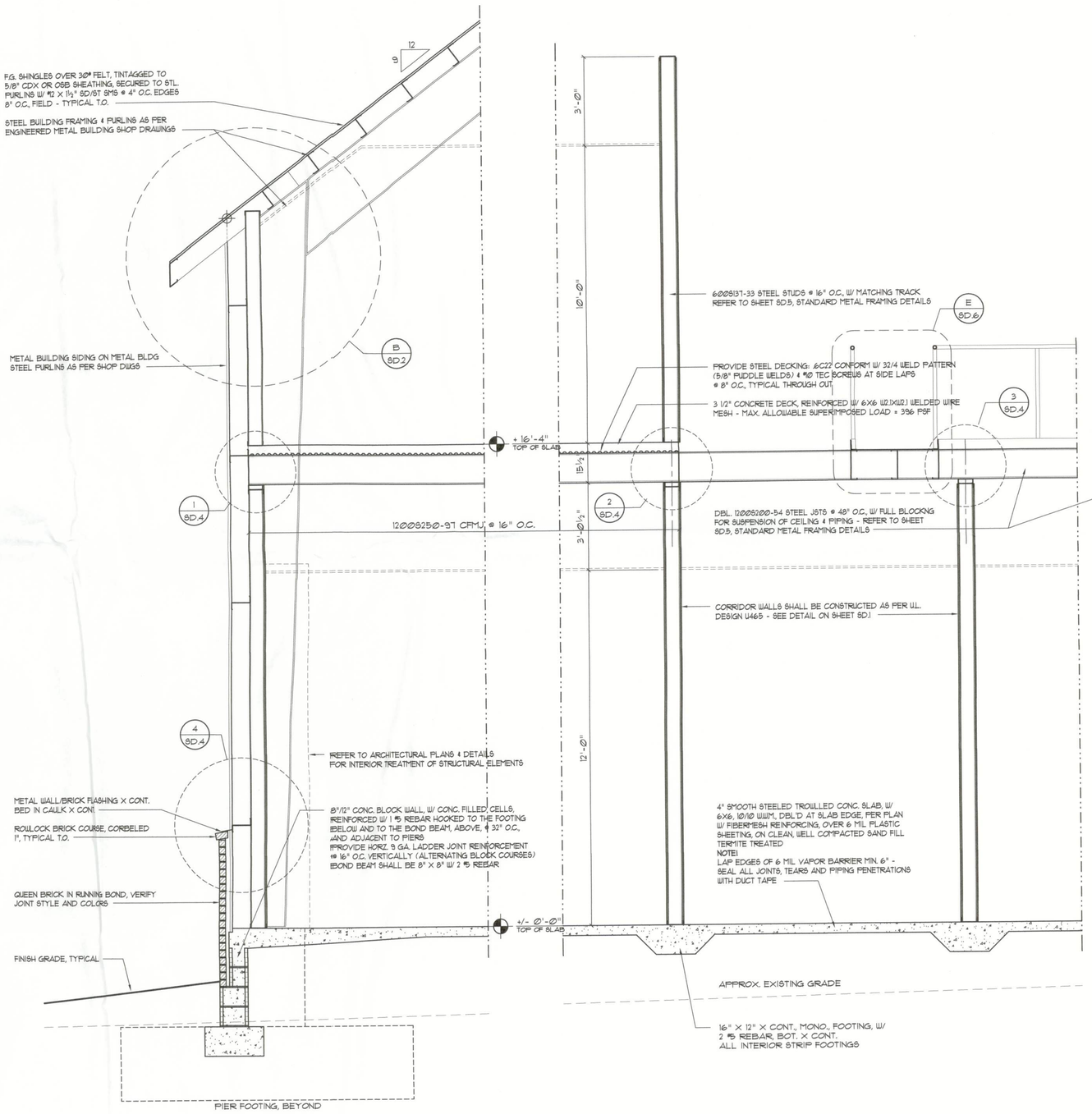
JOB NUMBER
2K1260

DATE:
11 SEP 2012

SHEET NUMBER
SD.2
OF 7 SHEETS



Wall SECTION A

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

Wall SECTION B

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

Wall SECTION C

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

REVISIONS
1

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
C.R. 240, COLUMBIA COUNTY, FLORIDA

AR0007005

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11 SEP 2012

SHEET NUMBER
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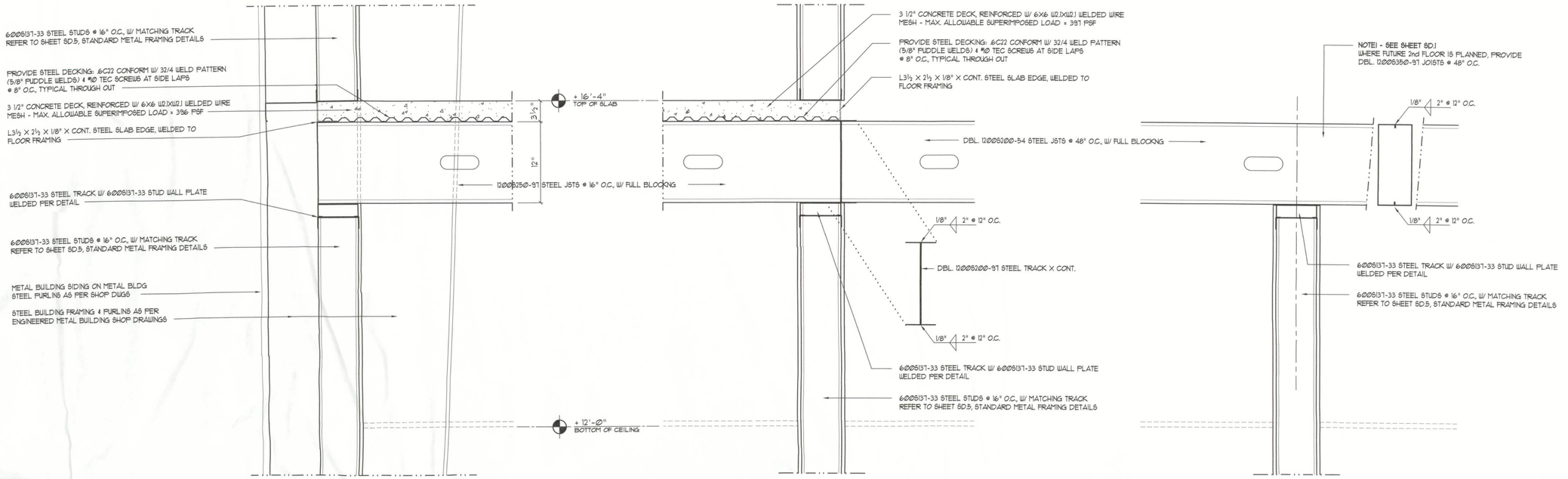
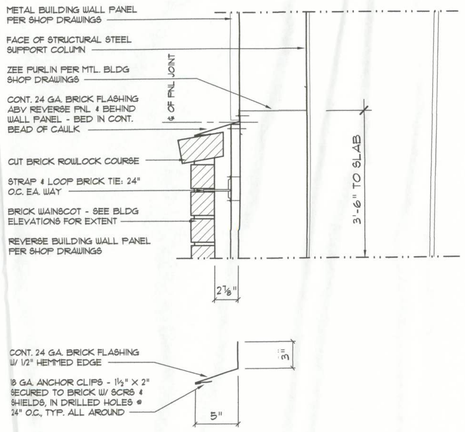
OF 7 SHEETS



Floor Framing DET. (A)
SCALE: 1½" = 1'-0"

Floor Framing DET. (B)
SCALE: 1½" = 1'-0"

Ceiling Support DET. (C)
SCALE: 1½" = 1'-0"



Wainscot Flashing DET. (D)
SCALE: 1½" = 1'-0"

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

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JOB NUMBER
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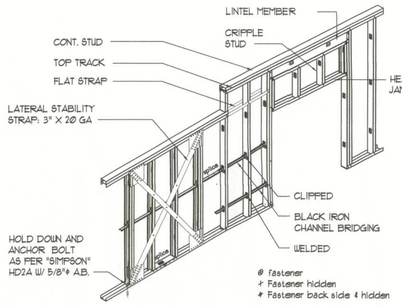
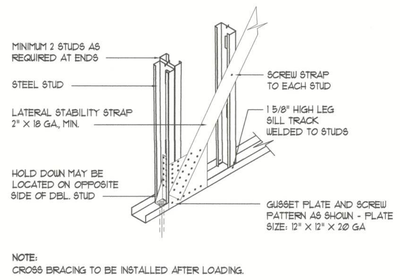
DATE:
11 SEP 2012

SHEET NUMBER
SD.4
OF 7 SHEETS

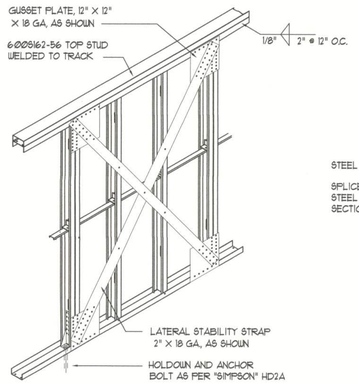


STRUCTURAL WALL ASSEMBLY

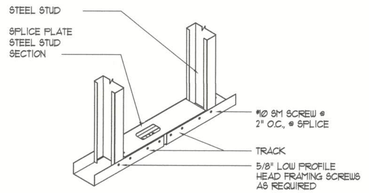


NOTE:
CROSS BRACING TO BE INSTALLED AFTER LOADING.

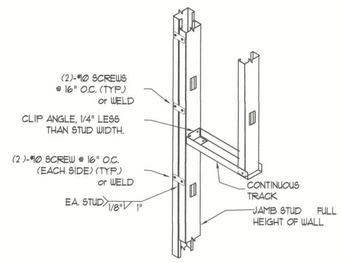
SHEAR WALL HOLD DOWN AT CROSS BRACE



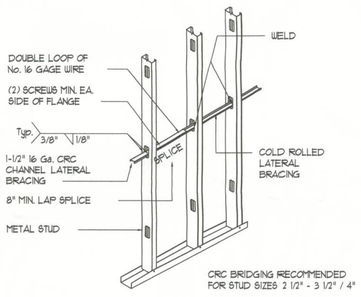
SHEAR WALL CROSS BRACE



TRACK SPLICE

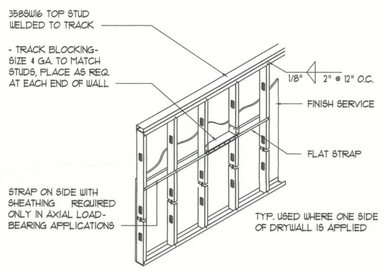


JAMB STUD DETAIL

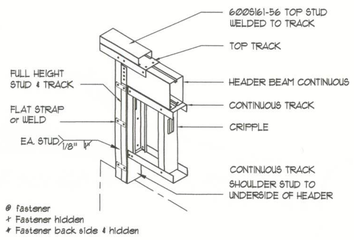


CRC BRIDGING RECOMMENDED FOR STUD SIZES 2 1/2" - 3 1/2" / 4"

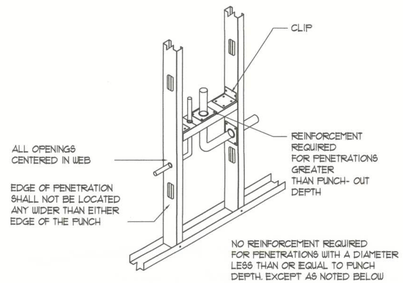
WELDED CRC BRIDGING



FLAT STRAP LATERIAL BRACING

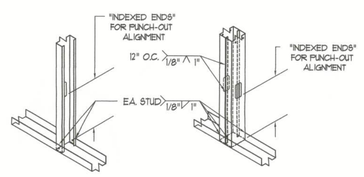


HEADER TO JAMB STUD DETAIL



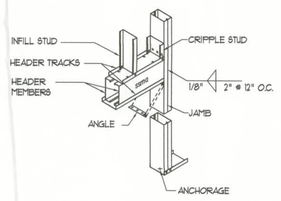
NOTES:
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
2. CAPACITY VERIFICATION BY DESIGN IS REQ. FOR ANY OPENINGS LOCATED AT CONCENTRATED LOADS AND BEARING ENDS.
3. APPLICABLE TO TRACK, STUDS, JOISTS & RAFTERS

STUD WEB PENETRATIONS



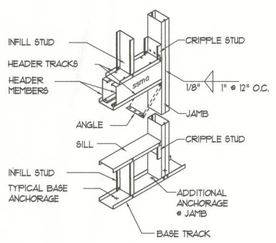
NOTE:
LOAD BEARING STUDS MUST BE SEATED TIGHT TO TRACK WEB (MAX. GAP OF 1/16")

TYPICAL STUD TO TRACK CONNECTIONS

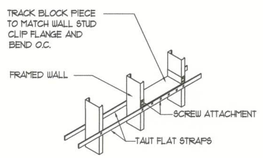


Door - Load Bearing
Boxed Header
Boxed Jamb

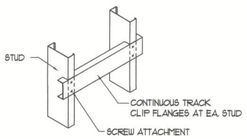
DOOR - LOAD BEARING
BOXED HEADER - BOXED JAMB



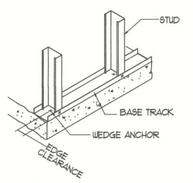
WINDOW - LOAD BEARING
BOXED HEADER - BOXED JAMB



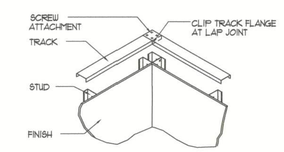
BRIDGING
DOUBLE FLAT STRAP W/BLOCKING



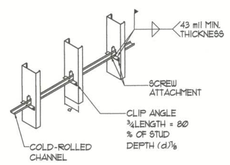
BACKING - CLIPPED TRACK - HVY. LOADED
(GRAB BARS, HANDRAILS, WALL HUNG CABINETS)



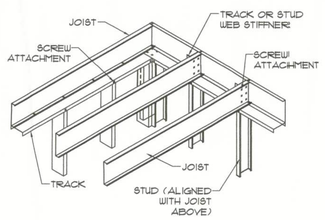
BOTTOM TRACK WEDGE ANCHOR



CORNER TRACK LAP CONNECTION



BRIDGING
COLD-ROLLED CHANNEL W/CLIP ANGLE



TYPICAL FLOOR FRAMING

COLD FORMED METAL FRAMING:

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE – STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177" DIA. X 1 1/2" PAF, SHOT THROUGH A 1" DIA. X 16 GA. HOLELESS WASHER.

5. STEEL BEARING ON STEEL TO BE WELDED THERETO.

CFMF DETAILS

SCALE: NONE

NOTE!
ALL METAL STUDS IN AXIAL LOAD INTERIOR APPLICATIONS SHALL BE 600S137-34 MINIMUM, W/ MATCHING TRACK, ALL WELDED JOINTS

NOTE!
ALL METAL STUDS IN AXIAL LOAD EXTERIOR APPLICATIONS SHALL BE 600S162-54 MINIMUM, W/ MATCHING TRACK, ALL WELDED JOINTS

REVISIONS

SOFTPLAN ARCHITECTURAL DESIGN SOFTWARE

NEW LEARNING FACILITY for
BELMONT ACADEMY
C.R. 240, COLUMBIA COUNTY, FLORIDA

AR0007005

NICHOLAS GEISLER ARCHITECT
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JOINT VENTURED WITH

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JOB NUMBER
2K1260

DATE:
11 SEP 2012

SHEET NUMBER
SD.5
OF 7 SHEETS