San Carlos Community Resource Center
Precinct No. 4

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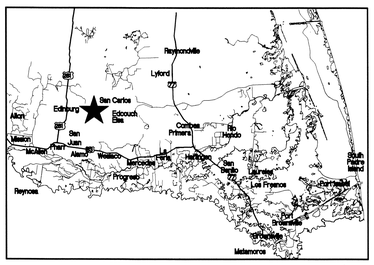
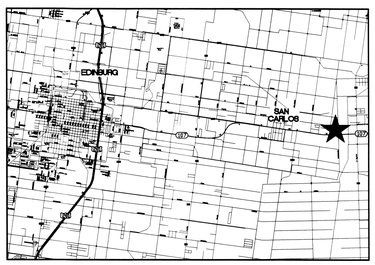
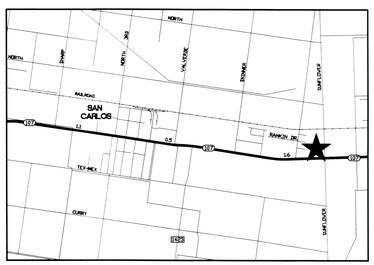


REGION MAP NORTH

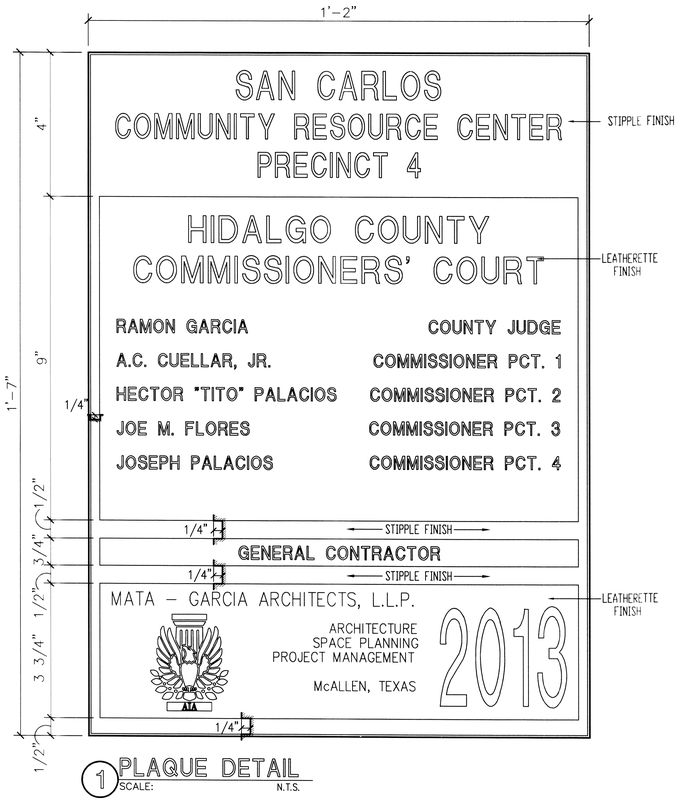


CITY MAP NORTH



STREET MAP NORTH

HIDALGO COUNTY PRECINCT 4
JOSEPH PALACIOS, COMMISSIONER
1051 NORTH DOOLITTLE ROAD
EDINBURG, TEXAS 78542



1 PLAQUE DETAIL
SCALE: N.T.S.

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PROJECT DATA

BUILDING CODE:	INTERNATIONAL BUILDING CODE 2009 CODE
INTERPRETATION	
1. PROJECT DESCRIPTION:	NEW COMMERCIAL CONSTRUCTION
2. OCCUPANCY CLASSIFICATION:	GROUP A3
3. CONSTRUCTION TYPE VB	SPRINKLERED & UNPROTECTED
4. ALLOWABLE AREA	6,000 SQUARE FEET
4. AREA MODIFICATION	18,000 SQUARE FEET
5. ACTUAL BUILDING AREA	8,500 SQUARE FEET
6. ACCESSIBILITY	TEXAS ACCESSIBILITY STANDARDS 2012

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: J.T.
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER
PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

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SHEET: 0.0

4.2 SPACE ALLOWANCES AND REACH RANGES

TAS SECTIONS 4.2.1 – WHEELCHAIR PASSAGE WIDTH

A. The minimum clear width for single wheelchair passage shall be 32" at a point and 36" continuously

TAS SECTIONS 4.2.2 – WIDTH FOR WHEELCHAIR PASSING

A. The minimum clear width for two wheelchairs to pass is 60"

TAS SECTIONS 4.2.4.1 – SIZE AND APPROACH

A. Minimum clear floor space for a wheelchair and occupant shall be 30" wide x 48" long. Clear floor space shall be centered on the element it serves.

4.3 ACCESSIBLE ROUTE

TAS SECTIONS 4.3.2 – LOCATION

A. At least one accessible route shall be provided from public transportation stops, accessible parking and loading zones, and public streets or sidewalks to the accessible building entrance.

TAS SECTIONS 4.3.3 – WIDTH

A. The minimum clear width of an accessible route shall be 36" except at doors.

TAS SECTIONS 4.3.4 – PASSING SPACE

A. If an accessible route is less than 60" in width, then passing spaces of at least 60"x60" shall be provided at 200' max. spacing.

TAS SECTIONS 4.3.5 – HEAD ROOM

A. Accessible routes shall have 80" min. clear head room.

TAS SECTIONS 4.3.7 – SLOPE

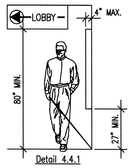
A. Running slope shall not exceed 1:20. (If slope exceeds 1:20, refer to section 4.8)

B. Cross slope shall not exceed 1:50

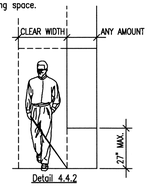
4.4 PROTRUDING OBJECTS (REFERENCE DETAIL 4.4.1 & 4.4.2)

TAS SECTIONS 4.4.1 – GENERAL

A. Objects projecting from walls (for example, telephones) with their leading edges between 27"–80" above the finished floor shall protrude no more than 4" into walks, halls, corridors, passageways, or aisles. Objects mounted with their leading edges at or below 27" above the finished floor may protrude any amount. Free–standing objects mounted on posts or pylons may overhang 12" maximum from 27"–80" above the ground or finished floor. Protruding objects shall not reduce the clear width of an accessible route or maneuvering space.



Detail 4.4.1



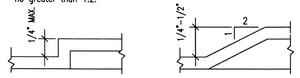
Detail 4.4.2

4.5 GROUND AND FLOOR SURFACES

TAS SECTIONS 4.5.2 – CHANGES IN LEVEL (REFERENCE DETAIL. 5.1)

A. Changes in level up to 1/4" may be verticle and without edge treatment

B. Changes in level between 1/4" and 1/2" shall be beveled with a slope no greater than 1:2.



Detail 5.1

TAS SECTIONS 4.5.3 – CARPET

A. Carpet provided on a floor surface shall be securely attached; have a firm pad or backing, or no pad; and have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Maximum pile thickness shall be 1/2". Exposed edges of carpet shall be fastened to floor surfaces and have trim along the exposed edges.

TAS SECTIONS 4.5.4 – GRATINGS

A. If gratings are located in walking surfaces or along accessible routes, then they shall have spaces no greater than 1/2" wide in one direction.

B. If gratings have elongated openings, then they shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

4.6 PARKING AND PASSENGER LOADING ZONES

TAS SECTIONS 4.6.3 – PARKING SPACES

A. Accessible parking shall be at least 96" wide.

B. Parking access aisles shall be 60" wide.
Van accessible access aisles shal be 96" wide.

C. Surface slope shall not exceed 1:50 in all directions
(Note : no built up curb ramp may be located in an accessible parking access aisle.)

TAS SECTIONS 4.6.4 – SIGNAGE

A. Each accessible parking space must have individual vertically mounted or suspended sign. Required van accessible spaces must be designatred.

A. Characters and symbols on such signs shall be located 60" minimum above the ground.

B. Signage located within an accessible route shall be located 80" min. above the walking surface.

TAS SECTIONS 4.6.5 – VERTICAL CLEARANCE

A. Provide minimum verticle clearance of 114" at accessible passenger loading zones and along at least one vehicle access route from site entrances and exits.

TAS SECTIONS 4.6.6 – PASSENGER LOADING ZONE

A. Passenger loading zones shall provide an access aisle at least 60" wide and 20 ft long adjacent and parallel to the vehicle pull–up space. If there are curbs between the access aisle and the vehicle pull–up space, then a curb ramp complying with 4.7 shall be provided. Vehicle standing spaces and access aisles shall be level with surface slopes not exceeding 1:50 in all directions.

4.7 CURB RAMPS

TAS SECTIONS 4.7.2 – SLOPE (REFERENCE DETAIL 4.7)

A. Slopes of curb ramps shall comply with 4.8.2.

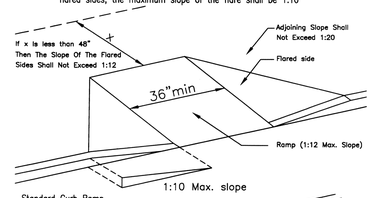
B. Maximum slopes of adjoining gutters, road surface immediately adjacent to the curb ramp, or accessible route shall not exceed 1:20.

TAS SECTIONS 4.7.3 – WIDTH (REFERENCE DETAIL 4.7)

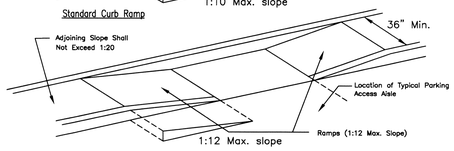
A. The minimum width of a curb ramp shall be 36", exclusive of flared sides.

TAS SECTIONS 4.7.5 – SIDES OF CURB RAMPS (REFERENCE DETAIL 4.7)

A. If a curb ramp is located where pedestrians must walk across the ramp or where it is not protected by handrails or guardrails, it shall have flared sides; the maximum slope of the flare shall be 1:10



Standard Curb Ramp



Curb Ramp Parallel to Curb

Detail 4.7

TAS SECTIONS 4.7.10 – DIAGONAL CURB RAMPS

A. If diagonal curb ramps have returned curbs or other well–defined edges, such edges shall be parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have 48" minimum clear space. If diagonal curb ramps are provided at marked crossings, the 48" clear space shall be within the markings. If diagonal curb ramps have flared sides, they shall also have at least a 24" long segment of straight curb located on each side of the curb ramp and within the marked crossing.

TAS SECTIONS 4.7.11 – ISLANDS

A. Any raised islands in crossings shall be cut through level with the street or curb ramps at both sides and a level area at least 48" long between the curb ramps in the part of the island intersected by the crossings.

4.8 RAMPS

TAS SECTIONS 4.8.1 – GENERAL

A. Any part of an accessible route with a slope greater than 1:20 shall be considered a ramp and shall comply with 4.8

TAS SECTIONS 4.8.2 – SLOPE AND RISE

A. The least possible slope shall be used for any ramp. The maximum slope of a ramp in new construction shall be 1:12. The maximum rise for any run shall be 30".

TAS SECTIONS 4.8.3 – CLEAR WIDTH

A. The minimum clear width of a ramp 30 ft or less in length shall be 36". Ramps more than 30 ft. in length shall have a minimum clear width of 44".

TAS SECTIONS 4.8.4 – LANDINGS

A. Level landings required at top and bottom of each run, with the following features:
1. Minimum Width: Equal to width of ramp
2. Length: Minumum 60" clear
3. At change of direction landing shal be 60" x 60" min.

TAS SECTION 4.8.5 – HANDRAILS

A. Handrails are required at all ramps with > 6" rise.

B. Height: 34–38" above ramp surface

C. The clear space between the handrail and the wall shall be 1–1/2".

TAS SECTIONS 4.8.7 – EDGE PROTECTION

A. Ramps and landings with drop offs shall have curbs, walls, railings, or projecting surfaces that prevent slipping off the ramp. Curbs shall be a minimum of 2" high.

4.9 STAIRS

TAS SECTIONS 4.9.2 – TREADS AND RISERS

A. All steps on a flight of stairs shall have uniform riser heights and tread widths
1. Minimum tread depth shall be 11", measured from riser to riser (not including nosing)
2. Open risers are not permitted

TAS SECTION 4.9.4 – HANDRAILS

A. Non–continuous handrails shall extend 12" beyond the top riser and 12" plus the width of one tread beyond the bottom riser. At the top, the extension shall be parallel to the floor. At the bottom, the handrail shall continue to slope for a distance of one tread width (11"); the remaining extension shall be horizontal.

B. Height: 34" – 38", measured from the stair nosing.

4.10 ELEVATORS

TAS SECTIONS 4.10.3 – HALL CALL BUTTONS

A. Shall be centered 42" above floor

TAS SECTIONS 4.10.4 – HALL LANTERNS

A. Visible signals shall have the following features:
1. Fixtures shall be mounted with centerline at least 72" above the lobby floor
2. Visual elements shall be at least 2–1/2" in the smallest dimension

TAS SECTIONS 4.10.5 – RAISED AND BRAILLE CHARACTERS ON HOISTWAY ENTRANCES

A. All elevator hoistway entrances shall have raised and Braille floor no. designations provided on both jambs. Centerline of the characters shall be 60" above the floor. Characters shall be 2" high.

TAS SECTIONS 4.10.6 – DOOR PROTECTIVE AND REOPENING DEVICE

A. Elevator doors shall open and close automatically. They shall be provided with a reopening device that will stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

TAS SECTIONS 4.10.12 – CAR CONTROLS

A. All floor buttons shall be:
1. All control buttons shall be at least 3/4" in their smallest dim. They shall be flush or raised.
2. All control buttons shall be designated by Braille and by raised standard alphabet characters for letters, arabic characters for numerals. The call button for the main entry floor shall be designated by a raised star at the left of the floor designation.
3. Maximum 54" above floor where side approach is provided
4. Maximum 48" where forward approach is provided

B. Emergency Controls:
1. Shall have centerlines 35" minimum above floor
2. Shall be grouped at bottom of panel

C. The emergency communication system shall not require voice communication.

4.11 PLATFORM LIFTS

NOTE : REQUIRES A VARIANCE FROM THE T.D.L.R. TO USE IN LIEU OF AN ELEVATOR

TAS SECTIONS 4.11.2, 4.27.3 – OTHER REQUIREMENTS
CONTROLS AND OPERATING SYSTEMS

A. Heights permitted:
Controls and operating mechanisms shall be located for either a forward or side approach from any direction of travel. They shall be located 28" min. and 48" maximum above the floor. They shall be operable with one hand. There shall be at least one handrail complying with 4.26.
Wheelstops and quardrails shall be provided where necessary.

4.13 DOORS

TAS SECTION 4.13.4 – DOUBLE – LEAF DOORWAYS

A. Doorways with two independently operated leaves shall have at least one active leaf that meets the requirements in 4.13.5 and 4.13.6.

TAS SECTION 4.13.5 – CLEAR WIDTH

A. Doorways shall provide a clear opening of 32" minimum, with the door open 90°.
1. Clear opening shall be measured between the face of the door and opposite stop.
2. Openings more than 24" in depth shall provide a clear opening of 36" minimum.
Exception: Doors not requiring full user passage, such as shallow closets, shall have a clear opening of 20" minimum.

TAS SECTION 4.13.6 – MANEUVERING CLEARANCES AT DOORS

Provide level (1:50 max. slope) and clear maueuvering area at doors as follows:

A. Front approach pull side – 60" min. width & 18" min. beside strike edge
Front approach push side – 48" min width & 0" beside strike edge
(12" ● strike if door has both a closer and a latch)

B. Hinge side approach pull side – 60" min. width; 36" min. beside strike edge
or – 54" min. width; 42" min. beside strike edge
Hinge side approach push side – 42" min. width & 18" min. beside hinge edge
(48"min. width if door has both a closer and a latch)

C. Latch side approach pull side – 48" min. width and 24" min. beside strike edge
(54"min. width if door has a closer)
Latch side approach push side – 42" min. width and 24" min. beside strike edge
(48"min. width if door has a closer)

TAS SECTION 4.13.8 – THRESHOLDS AT DOORWAYS

A. Maximum threshold height: 1/2" (3/4" at exterior sliding doors). Raised thresholds and floor level changes shall be beveled with a slope no greater than 1:2.

TAS SECTION 4.13.9 – DOOR HARDWARE

A. Handles, pulls, latches, locks, and other operating devices shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.

1. Lever–operated mechanisms, push–type mechanisms, and U–shaped handles are acceptable designs.

2. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides.

3. Hardware required for accessibel door passage shall be mounted no higher than 48" above finished floor.

TAS SECTION 4.13.10 – DOOR CLOSERS

A. If a door has a closer, then the sweep period of the closer shall be adjusted so that from an open position of 70°, the door will take at least 3 seconds to move to a point 3" from the latch, measured to the leading edge of the door.

TAS SECTION 4.13.11 – DOOR OPENING FORCE

A. The maximum force for pushing or pulling open a door shall be as follows:

1. Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

2. Other doors
a. Exterior hinged doors: no requirement.
b. Interior hinged doors: 5.0 lbf.
c. Sliding or folding doors: 5.0 lbf.
These forces do not apply to the force required to retract latch bolts or disengage othe devices that may hold the door in a closed position.

4.15 DRINKING FOUNTAINS

TAS SECTION 4.15.2 – SPOUT HEIGHT (REFERENCE DETAIL 4.15 for accessible unit)

A. Accessible spouts shall be no higher than 36", measured from the floor or ground surface to the spout outlet.

B. In addition to accessible unit, at least one drinking fountain shall be at standard height (may be "high/low" type if located in one location).

TAS SECTION 4.15.3 – SPOUT LOCATION

A. Spouts shall be located at the front of the unit and shall direct the water flow in a trajectory that is parallel or nearly parallel to the front of the unit.

1. The spout shall provide a flow of water at least 4" high.
2. If the fountain has a round or oval bowl, the spout must be positioned so the flow of water is within 3" of the front edge of the fountain.

TAS SECTION 4.15.4 – CONTROLS

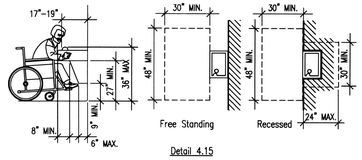
A. Unit controls shall be front mounted or side mounted near the front edge.

TAS SECTION 4.15.5 – CLEARANCES (REFERENCE DETAIL 4.15).

A. Wall and post mounted cantilever fountains shall have clear knee space as follows:

1. Minimum 27" high (from apron bottom to floor) minimum 30" wide, and 17" – 19" deep.
2. A minimum 30" by 48" clear floor space allowing a forward approach to the unit shall be provided.

B. Free standing or built–in units not having a clear knee space shall have a minimum 30" by 48" clear floor space allowing a parallel approach to the unit.



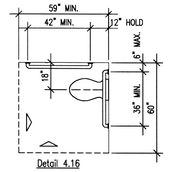
Detail 4.15

4.16 WATER CLOSETS

TAS SECTION 4.16.2 – CLEAR FLOOR SPACE

A. Clear floor space for water closets not in stalls shall be provided as follows:
Front approach – 48" min. wide x 66" min. long
Side approach – 56" min. to front of toilet x 48" min. wide
Both approach – 60" min. wide x 56" min. long (Reference Detail 4.16)

B. No doorswings are allowed in clear floor area.



Detail 4.16

TAS SECTION 4.16.3 – HEIGHT (REFERENCE DETAIL 4.16.2)

A. The height to the top of the toilet seat shall be 17" – 19" above floor.

1. Seats shall not be sprung to return to a lifted position.

TAS SECTIONS 4.16.4, 4.26 – GRAB BARS (REFERENCE DETAILS 4.16.1, 4.16.2 & 4.16.3)

A. For water closets not located in toilet stalls, the following grab bars shall be provided, 33" – 36" above the finish floor:

1. Side wall: 42" long minimum, hold 12" min. from back wall.
2. Back wall: 36" long minimum, 12" minimum each side of water closet centerline.

Refer to 4.26 Grab Bars for size and structural elements.

TAS SECTIONS 4.16.5, 4.27.4 – FLUSH CONTROLS (REFERENCE DETAIL 4.16.3)

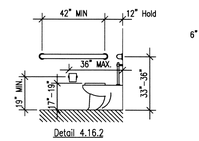
A. Controls shall be 44" maximum above the finish floor.

1. Lever controls or flush valves shall be mounted on the wide side of toilet areas.
2. Controls shall be hand operated or automatic.
3. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.
4. The force required to activate controls shall be no greater than 5lbf.

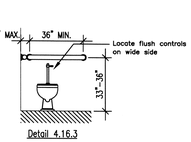
TAS SECTION 4.16.6 – DISPENSERS (REFERENCE DETAIL 4.16.2)

A. Toilet paper dispensers shall be installed on the side wall, a minimum 19" above the floor, and a maximum 36" from the rear wall.

1. Dispensers that control delivery or do not permit continuous paper flow shall not be used.



Detail 4.16.2



Detail 4.16.3

4.17 TOILET STALLS

TAS SECTION 4.22.4 – WHERE APPLICABLE

A. If toilet stalls are provided in a toilet room or bathroom, then at least one shall be a "standard" accessible toilet stall (for wheelchair users) complying with this section. (REFERENCE DETAIL 4.17.1)

B. If 6 or more toilet stalls are provided in a toilet room or bathroom in addition to the 'standard' accessible stall required; an additional 'alternate A' accessible stall 36" wide (for ambulatory persons with disabilities) complying with this section shall be provided. (REFERENCE DETAIL 4.17.2)

C. Alterations/Existing Conditions: In alteration work. where provision of a 'standard' accessible stall is technically infeasible, or where plumbing code requirements prevent combining existing stalls to provide space, either 'alternate' stall (A or B) complying with this section may be provided in lieu of the standard stall. (Note :requires a variance from T.D.L.R.)

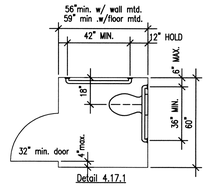
TAS SECTION 4.17.3 – SIZE AND ARRANGEMENT (REFERENCE DETAIL 4.17)

A. Toilet stalls may be arranged to provide either a left or a right handed approach. Accessible toilet stalls shall have the following dimensions:

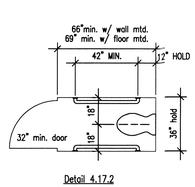
1. 'Standard' Accessible Stall
60" minimum width.
59" minimum depth, with floor mounted water closet
56" minimum depth, with wall mounted water closet
Door: outward swinging (if door swings into stall, depth shall be increased by 36". Stall doors must have 18" on pull strike jamb.

2. 'Alternate A' Accessible Stall (required when more than 6 stalls provided, permitted in lieu of standard stall only with a variance from T.D.L.R.)
36" width – hold this dim.
69" minimum depth, with floor mounted water closet.
66" minimum depth with wall mounted water closet
Door: outward swinging.

3. 'Alternate B' Accessible Stall (permitted in lieu of standard stall only with variance from T.D.L.R.)
48" minimum width.
54" minimum depth.
Door : outward swinging.



Detail 4.17.1



Detail 4.17.2

TAS SECTION 4.17.4 – TOE CLEARANCES

A. In 'Standard' accessible stalls, the front partition and at least one side partition shall provide a toe clearance of at least 9" above the floor.

B. If the depth of the stall is greater than 60", the toe clearance is not required.

TAS SECTION 4.17.5 – DOORS

A. Toilet stall doors, including hardware, shall comply with 4.13 DOORS

B. If toilet stall approach is from the latch side of the stall door, clearance between the door side of the stall and any obstruction shall be 42" minimum. (This is an exception from typical door maneuvering clearances)

TAS SECTION 4.17.6 – GRAB BARS (REFERENCE DETAILS 4.16.2, 4.16.3, 4.17.1 & 4.17.2)

A. Grab Bars shall be mounted 33" – 36" above the floor.

Refer to 4.26 Grab Bars for size and structural requirements.

4.18 URINALS

TAS SECTION 4.18.2 – HEIGHT (REFERENCE DETAIL 12.3.1)

A. Urinals shall be stall–type or wallhung with a tapered, elongated rim at 17" maximum above the finished floor.
The rim shall extend a minimum of 14" from the wall.

TAS SECTION 4.18.3 – CLEAR FLOOR SPACE (REFERENCE DETAIL 4.18.1)

A. A clear floor space 30" wide by 48" deep minimum shall be provided in front of urinal to allow forward approach.

1. This space shall adjoin or overlap an accessible route.

2. Urinal shield that do not extend beyond the front edge of the urinal rim may be provided with 29" clearance between them.

3. Urinals installed in alcoves deeper than 24" require a maneuvering area of at least 36" minimum wide, centered on fixture.

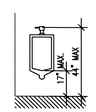
TAS SECTION 4.18.4 – FLUSH CONTROLS (REFERENCE DETAIL 4.18.2)

A. Controls shall be 44" maximum above the finished floor.

1. Controls shall be hand operated or automatic.

2. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

3. The force required to activate controls shall be no greater than 5 lfb.



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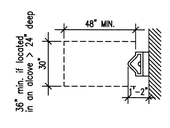


Detail 4.18.2

4.19 LAVATORIES & MIRRORS

TAS SECTION 4.19.2 – HEIGHT & CLEARANCES (REFERENCE DETAIL 4.19.1 & 4.19.2)

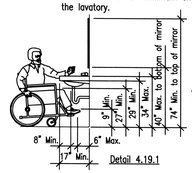
A. Lavatories shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

1. Lavatories shall extend 17" minimum from the wall.

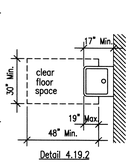
2. Clearance of 29" minimum shall be provided from the finished floor to bottom of apron.

3. Knee clearance of 27" minimum shall extend 8" minimum under the edge of the lavatory.

4. Toe clearance of 9" minimum shall be provided for the full depth of the lavatory.



Detail 4.19.1



Detail 4.19.2

ACCESSIBILITY GUIDELINES (TAS)

PROJECT #: 201305
DATE: 10.1.13
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 14702
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS LLP
architecture
project management
interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501
Tel : (956) 631-1945
Fax : (956) 631-1988

SHEET: 0.1

TAS SECTION 4.19.4 – EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under lavatories shall be insulated or otherwise configured to protect against contact.

B. There shall be no sharp or abrasive surfaces under lavatories.

TAS SECTIONS 4.19.5, 4.27.4 – FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

TAS SECTION 4.19.6 – MIRRORS (REFERENCE DETAIL 4.19.1)

A. Mirrors shall be mounted with the bottom edge of the reflecting surface 40" maximum above the finished floor.

B. The top edge of the reflecting surface must be at least 74" AFF.

4.20 BATHTUBS

TAS SECTION 4.20.2 – FLOOR SPACE

A. Clear floor space shall be provided in front of bathtubs as follows:
30" wide x 60" long beside the bathtub for side approach
48" wide x 60" long beside the bathtub for front approach

with seat at head of tub – 30" wide x 75" long beside tub

TAS SECTION 4.20.3 – SEAT

A. An in-tub seat or a seat at the head end of the tub shall be provided. Seats shall be mounted securely and shall not slip during use.

TAS SECTIONS 4.20.4 – GRAB BARS

A. Heights permitted:

1. With in Tub Seat:
Foot Control wall: 24" long minimum, from outside wall, 33-36" above floor
Back wall: 2 bars, 24" long minimum, 12" maximum from foot wall, 24" maximum from head wall; one 33-36" above floor, one 9" above the tub
Head wall: 12" minimum, from outside wall, 33-36" above floor

2. With Seat at Head of Tub:
Control wall: 24" long minimum, from outside wall, 33-36" above floor
Back wall: 2 bars, 48" long minimum, 12" maximum from foot end, 15" maximum from head end; one 33-36" above floor, one 9" above the tub

Head wall: none

TAS SECTION 4.20.5

A. Controls must be located up front to the open side of tub

TAS SECTION 4.20.6 – SHOWER UNIT

A. A shower spray unit with a hose at least 60" long shall be provided that they can be used both as fixed and hand held.

4.21 SHOWER STALLS

TAS SECTION 4.21.2 – SIZE AND CLEARANCES

A. Shower stalls shall be either 36"x36" clear inside dimension (hold) at transfer type or 30" min. x 60" min. clear inside dimension at roll in type.

TAS SECTIONS 4.21.3 – SEAT

A. Seat is required in 36"x 36" stalls, and shall have the following features:

1. Shall be 17"-19" above bathroom floor
2. Shall extend the full depth of the stall
3. Shall be located on the wall opposite control wall
4. Maximum space between wall and seat edge shall be 1-1/2"
5. Shall project 16" maximum into stall width, except at the rear 15" maximum of the stall, where the seat may project 23"
6. Where a seat is provided in a roll in type shower it must be the fold-up type.

TAS SECTIONS 4.21.4 – GRAB BARS

A. Grab bars shall be mounted 33-36" above floor

TAS SECTIONS 4.21.5 – CONTROLS

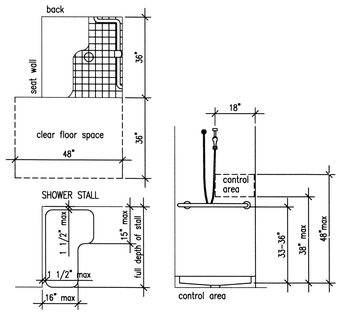
A. All shower controls shall be located 38" minimum and 48" maximum above the floor, up front on the open side.

TAS SECTION 4.21.6 – SHOWER UNIT

A. A shower spray unit with a hose at least 60" long that can be used both as a fixed shower head and as a hand held shower shall be provided. The mounting device shall comply with the requirements for Forward Reach.

TAS SECTIONS 4.21.7 – CURBS

A. If provided, curbs on transfer showers shall be no higher than 1/2" roll-in showers shall not have curbs



SHOWER SEAT DETAIL

4.22 TOILET ROOMS

TAS SECTIONS 4.22.2 – DOORS

A. All doors to accessible toilet rooms shall comply with 4.13. Doors shall not swing into clear floor space required for any fixture. Clear floor turning space may overlap door swings.

TAS SECTIONS 4.22.3 – CLEAR FLOOR SPACE

A. The accessible fixtures and controls required in 4.22.4, 4.22.5, 4.22.6 4.22.7 shall be on an accessible route. An unobstructed turning space complying with 4.2.3 shall be provided within an accessible toilet room. The clear floor space at fixtures and controls, the accessible route, and the turning space may overlap, however; the only turning space provided shall not be located within a stall.

TAS SECTIONS 4.22.4 – WATER CLOSETS

A. If toilet stalls are provided, then at least one shall be a standard toilet stall complying with 4.17; where 6 or more stalls are provided in addition to the stall complying with 4.17.3, at least one stall 36" wide with an outward swinging, self-closing door and parallel grab bars shall be provided. Water closets in such stalls shall comply with 4.16.

TAS SECTIONS 4.22.5 – URINALS

A. If urinals are provided, then at least one shall comply with 4.18.

TAS SECTIONS 4.22.6 – LAVATORIES AND MIRRORS

A. If lavatories and mirrors are provided, then at least one of each shall comply with 4.19. Accessible lavatories and mirrors shall not be located within toilet stalls unless other accessible lavatories and mirrors are provided in the toilet room.

TAS SECTIONS 4.22.7 – CONTROLS AND DISPENSERS

A. If controls, dispencers, receptacles, or other equipment are provided, then at least one of each shall be on an accessible route and shall comply with 4.27 – (Controls & Operating Mechanisms).

4.23 – BATHROOMS, BATHING FACILITIES, AND SHOWER ROOMS

TAS SECTION 4.23.8 – BATHING AND SHOWER FACILITIES

A. In addition to the requirements of 4.22. toilet rooms :
If tubs and showers are provided, then at least one accessible tub that complies with 4.20 or at least one accessible shower that complies with 4.21 shall be provided

4.24 – SINKS

TAS SECTION 4.24.2 – HEIGHT

A. Sinks shall be mounted with the rim or counter surface no higher than 34" above the finished floor.

TAS SECTIONS 4.24.3 – KNEE CLEARANCE

A. Knee clearance of 27" high minimum, 30" wide minimum, and 19" deep minimum shall be provided underneath sinks.

TAS SECTION 4.24.4 – DEPTH

A. Each sink shall be a maximum of 6-1/2" deep.

TAS SECTION 4.24.6 – EXPOSED PIPES AND SURFACES

A. Hot water and drain pipes under sinks shall be insulated or otherwise configured to protext against contact.

B. There shall be no sharp or abrasive surfaces under sinks.

TAS SECTION 4.24.7, 4.27.4 – FAUCETS

A. Controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist.

B. The force required to activate controls shall be no greater than 5 lbf.

C. Lever-operated, push-type, and electronically controlled mechanisms are examples of acceptable designs.

D. If self-closing valves are used the faucet shall remain open for at least 10 seconds.

4.25 – STORAGE

TAS SECTION 4.25.1 – DEPTH (REFERENCE DETAIL 4.25.1)

A. Storage areas may be 36" in depth or less. If more than 36" in depth then area must allow 60" diameter of clear floor space for turning.

TAS SECTION 4.25.2 – CLEAR FLOOR SPACE: (REFERENCE DETAIL 4.25.2)

TAS SECTION 4.25.3 – HEIGHT (REFERENCE DETAIL 14.3 AND 4.25.3 & 4.25.4)

A. Where a forward reach is required, accessible storage spaces shall be 48" maximum and 15" minimum above the floor. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20"-25" deep, the maximum height shall be 44", if the obstruction is less than 20", maximum height shall be 48".

B. Where a side reach is provided, accessible storage spaces shall be 54" maximum and 9" minimum above the floor. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.

C. Clothes rods or shelves shall be a maximum 54" above floor where a side reach is required.

D. Where the distance from the wheelchair to the clothes rod or shelf exceeds 10" (as at closets with inaccessible doors) the following criteria shall be met:

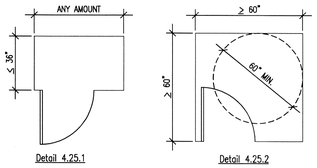
1. Shelves: Reach: 21" maximum; height: 48" maximum, 9" minimum.

2. Clothes rods: reach 21" maximum; height: 48" maximum.

TAS SECTIONS 4.25.4, 4.27.4 – HARDWARE

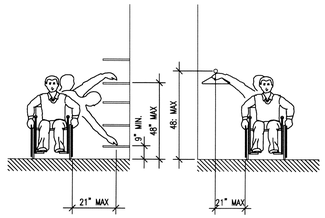
A. Hardware for accessible storage facilities shall be operable with one hand and shall not require tight grasping, pinching, or tisting of the wrist.

B. The force required to activate the hardware shall be no greater than 5 lbf



Detail 4.25.1

Detail 4.25.2



Detail 4.25.3 Detail 4.25.4

4.26 – GRAB BARS

TAS SECTION 4.26.2 – SIZE AND SPACING

A. Diameter or width of gripping surface shall be 1-1/4" to 1-1/2", or the shape shall provide an equivalent gripping surface.

1. The space between grab bars and adjacent walls shall be 1-1/2"

TAS SECTION 4.26.3 – STRUCTURAL STRENGTH

A. Grab bars and mounting devices shall meet the following requirements:

1. Bending stress induced by maximum bending moment from application of 250 lbf shall be less than allowable stress for material used.

2. Shear stress induced by application of 250 lbf shall be less than allowable shear stress for material used. If connection between grab bar and mounting bracket is considered to be fully restrained, then direct and torsional shear stresses shall be totaled for the combined shear stress, which shall not exceed the allowable shear stress.

3. Shear force induced in a fastener or mounting device from application of 250 lbf shall be less than allowable lateral load of either the fastener or mounting device or the supporting structure, whichever is the smaller allowable load.

4. Tensile force induced in a fastener by a direct tension force of 250 lbf plus the maximum moment from the application of 250 lbf shall be less than the allowable withdrawal load between the fastener and the supporting structure.

5. Grab bars shall not rotate within their fittings.

TAS SECTION 4.26.4 – ELIMINATING HAZARDS

A. Grab bars and adjacent wall surfaces shall be free of sharp or abrasive surfaces.

B. Edges shall have a radius of 1/8" minimum.

4.27 – CONTROLS AND OPERATING MECHANISMSS

TAS SECTION 4.27.3 – HEIGHT (REFERENCE DETAIL 4.30.3)

A. Front approach – 48" max. to 15" min.
Controls located in an alcove >24" deep must have 36" clear floor width.

B. Side approach – 54" max. to 9" min., except per below.

C. Electrical & communication system receptacals shall be mounted no less than 15" above the floor.

4.28 – ALARMS

TAS SECTION 4.28.1 – GENERAL

A. When required, visual alarms shall be provided in each of the following areas, as a minimum: restrooms and any other general usage areas (e.g., meeting rooms), hallways, lobbies, and any other area for common use.

TAS SECTION 4.28.2 – AUDIBLE ALARMS

A. If provided, audible alarms shall produce a sound that exceeds the prevailing equivalent sound level in the room or space by at least 15 dba or exceeds any maximum sound level with a duration of 60 seconds by 5 dba, whichever is louder.

B. Sound levels for alarm signals shall not exceed 120 dba.

TAS SECTION 4.28.3 – VISUAL ALARMS

A. Visual alarm signal appliances shall be integrated into the building or facility alarm system. If single station audible alarms are provided then single station visual alarm signals shall be provided.

Visual Alarm appliances shall have the following features:

1. The lamp shall be a xenon strobe type or equivavent.

2. The color shall be clear or nominal white (i.e. unfiltered or clear filtered white light).

3. The maximum pulse duration shall be two-tenths of one second with a maximum duty cycle of 40%. (The pulse duration is defined as the time interval between initial and final points of 10% of max signal)

4. The intensity shall be a minimum of 75 candela.

5. The flash rate shall be a minimum of 1 Hz and a maximum of 3 Hz

6. The appliance shall be placed 80" above the highest floor level within the space or 6" below the ceiling, whichever is lower.

7. In general, no place in any room or space shall be more than 50' from the signal (measured in a horizontal plane).

a. In large rooms and spaces exceeding 100' across, without obstructions 6' above the finished floor, such as auditoriums, devices may be place around the perimeter, spaced a maximum 100' apart, in lieu of suspending appliances from the ceiling.

8. No place in common corridors or hallways shall be more than 50' from the signal.

4.30 – SIGNAGE

TAS SECTIONS 4.1.2(7), 4.1.3(16)(a) – WHERE APPLICABLE

A. Signs which designate permanent rooms and spaces shall comply with the requirements listed below for:

1. Raised and Braille Characters, and Pictograms

2. Finish and Contrast

Exception: Employee name signs are not required to comply.

TAS SECTIONS 4.1.2(7), 4.1.3(16)(b) – WHERE APPLICABLE

A. Signs which provide direction to, or information about, functional spaces of the building shall comply with the requirements listed below for:

1. Character Proportion

2. Character Height

3. Finish and Contrast

Exception: Building directories, menus, and all other signs which are temporary are not required to comply.

TAS SECTION 4.1.2(7) – WHERE APPLICABLE (REFERANCE DETAIL 4.30.1)

A. Element and spaces of accessible facilities which shall be identified by the International Symbol of Accessibility are:

1. Parking spaces designated as reserved for persons with disabilities.

2. Accessible passenger loading zones.

3. Accessible entrances when not all are accessible (inaccessible entrances shall have directional signage to indicate route to nearest accessible entrance).

4. Accessible toilet and bathing facilities when not all are accessible.

TAS SECTION 4.30.2 – CHARACTER PROPORTION (REFERENCE DETAIL 4.30.2)

A. Letters and numbers on signs shall have a width-to-height ratio between 3:5 and 1:1, and a stroke-width-to-height ratio between 1:5 and 1:10.

TAS SECTION 4.30.3 – OVERHEAD SIGNS

A. Characters and numbers on overhead signs shall be sized according to the viewing distance from which they are to be read.

1. For signs higher than 80" above the finished floor, character size shall be 3" minimum.

2. The minimum height is measured using an upper case X.

3. Lower case letters are permitted.

TAS SECTION 4.30.4 – RAISED AND BRAILLE CHARCTERS AND PICTOGRAMS

A. Letter and numerals shall be raised 1/32", upper case, sans serif and shall be accompanied by grade 2 Braille.

1. Raised character height: 5/8" minimum, 2" high maximum

2. Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram.

3. The border dimension of the pictogram shall be 6" minimum

TAS SECTION 4.30.5 – FINISH AND CONTRAST

A. The character and background of the signs shall be eggshell, matte, or other non-glare finish. Charcters and symbols shall contrast with their bacground (either light characters on a dark background or dark characters on a light background).

TAS SECTION 4.30.6 – MOUNTING LOCATION AND HEIGHT (REFERENCE DETAIL 4.30.3)

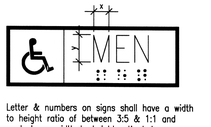
A. Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door.

B. Where there is no wall space to the latch side of the door, including at double-leaf doors, signs shall be placed on the nearest adjacent wall.

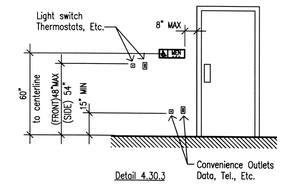
C. Mounting height shall be 60" above the finished floor to the centerline of the sign.

D. Mounting location for such signage shall be so that a person may approach within 3" of signage without encountering protruding objects or standing within the swing of a door.

International Symbol of Accessibilty
Detail 4.30.1



Letter & numbers on signs shall have a width to height ratio of between 3:5 & 1:1 and a stroke – width to height ratio between 1:5 & 1:10. Letters and numbers shall be raised 1/32", upper case, sans serif or simple serif type and shall be accompanied with grade 2 Braille, rasied characters shall be at least 5/8" high, but no higher than 2".
Detail 4.30.2



Detail 4.30.3

4.31 – PUBLIC TELEPHONES

TAS SECTION 4.1.3(17)(a) – WHERE APPLICABLE

A. If public pay telephones, public closed circuit telephones, or other public telephones if provided, then they shall comply with this section in the quantities below:

1. If one or more single unit of a type of public telephone is provided on a floor, then at least one of those phones shall comply with this section.

2. If one bank (defined as two or more adjacent public telephones, often instalied as a unit) of a type of telephone is provided on a floor, then at least one of the telephones at the bank shall comply with this section.

3. If two or more banks of a type of public telephone are provided on a floor, then at least one telephone per bank shall comply with this section. The accessible unit may be installed as a single unit in proximity (either visible or with signage) to the bank. At least one public telephone per floor shall meet the requirements for a forward reach telephone.

Additional public telephones may be installed at any height.

Unless otherwise specified, accessible telephones may be either forward or side reach telephones.

TAS SECTION 4.1.3(17)(b) – WHERE APPLICABLE

A. All telephones required to be accessible shall be equipped with a volume control.

B. In addition, 25%, but never less than one, of all other public telephones provided shall be equipped with a volume control and shall be dispersed all type of telephones, including closed ciruit telephones, throughout the building or facility.

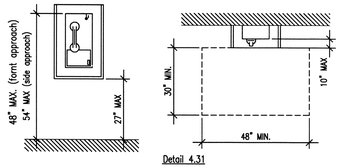
C. Signage displaying the International Symbol of Access for Hearing Loss shall be provided at each telephone equipped with a volume control.

TAS SECTION 51.3 – MOUNTING HEIGHT (REFERENCE DETAIL 4.31)

A. The highest operable part of the telephone shall be 48" maximum above the floor where a forward reach is required, and 54" maximum where a side reach is required.

B. If the forward reach is over an obstruction (with knee space equal to or greater than reach distance) 20"-25" deep the maximum height shall be 44"; if the obstruction is less than 20", maximum height shall be 48"

C. Maximum height shall be 46" for side reach over an obstruction 34" maximum high and 24" maximum deep.



Detail 4.31

4.32 – SEATING AND TABLES

TAS SECTION 4.32.2 – SEATING

A. If seating spaces for people in wheelchairs are provided at fixed tables or counters, clear floor space of 30" x 48" shall be provided. Floor space shall not overlap required knee space by more than 19"

TAS SECTION 4.32.3 – KNEE SPACE

B. If seating for people in wheelchairs is provided at fixed tables or counters, knee space at least 27" high, 30" wide and 19" deep shall be provided.

TAS SECTION 4.32.4 – HEIGHT OF TABLES OR COUNTER

C. The tops of accessible tables and counters shall be 28" minimum, and 34" maximum, above the finished floor.

4.34 – AUTOMATIC TELLER MACHINES

TAS SECTIONS 4.34.2 – CLEAR FLOOR SPACE

A. Floor space shall comply with 4.2.4 to allow a forward, parallel approach or both.

TAS SECTIONS 4.34.3 – REACH RANGES

A. Forward approach only: controls within forward approach specified in 4.2.5.

B. Parallel approach: controls within unobstructed reach range from clear floor space at protrusion of teller machinr surround per table as follows:

Reach Depth	Maximum Height	Reach Depth	Maximum Height	Reach Depth	Maximum Height
in inches	in inches	in inches	in inches	in inches	in inches
10 or less	54	15	51	20	48 1/2
11	53 1/2	16	50 1/2	21	47 1/2
12	53	17	50	22	47
13	52 1/2	18	49 1/2	23	46 1/2
14	51 1/2	19	49	24	46

Note : above does not apply to drive up machines.

4.35 DRESSING AND FITTING ROOMS

TAS SECTIONS 4.35.2

A. Clear floor area with a 60" dia. wheelchair turnaround is required. The turnaround area must be clear of door swings.

TAS SECTIONS 4.35.4 – BENCH

A. Every accessible dressing room shall have a 24"x 48" bench fixed to the wall along the larger dimension. The bench shall be mounted 17" to 19" above the finish floor.

TAS SECTIONS 4.35.5 – MIRROR

A. A full-length mirror, measuring at least 18" wide by 54" high, shall be mounted in a position affording a view to a person on the bench as well as to a person in a standing position.

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY:
CHECKED BY: H.R.G.

REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

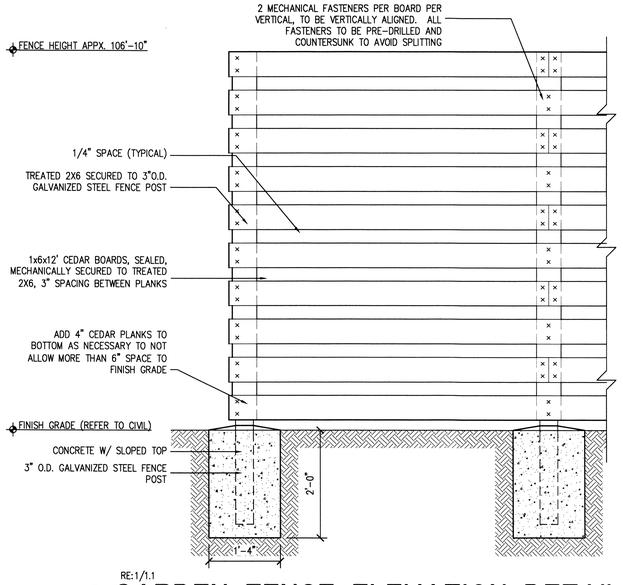
PROJECT : SAN CARLOS, TEXAS
LOCATION :
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 73862
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS L.L.P
architecture
project management
interior design
Fernando Mata A.I.A. Partner Hector Rene Garcia R.A. Partner
1314 West Ivy Avenue McAllen, Texas 78501 Tel : (956) 631-1945 Fax : (956) 631-1968

ACCESSIBILITY GUIDELINES (TAS)

SHEET: 02



RE:1/1.1

② GARDEN FENCE ELEVATION DETAIL

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

RE:1/1.1

③ GARDEN FENCE PLAN DETAIL

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

RAIN WATER COLLECTION SYSTEM NOTES:

1.) IRRIGATION WATER SUPPLY LINE ROUTED TO CISTERN.

2.) IRRIGATION SUPPLY LINE MUST BE IN PLACE PRIOR TO INSTALLATION OF CONCRETE PAD

3.) EACH CISTERN IS TO BE OUTFITTED W/ A 2" GLOBE VALVE.

4.) REFERENCED "SMART BOX" TO BE MUNRO SMART BOX AND IS TO BE SIZED AND PROVIDED BY CISTERN INSTALLER TO ENSURE PROPER SPECIFICATIONS AND OPERATION. SMART BOX TO BE CONTROLLED BY FLOAT SWITCH INSIDE CISTERN #1

5) SOLENOID VALVE TO OPEN AND CLOSE IRRIGATION SUPPLY LINE WHEN WATER LEVEL REACHES 30" INSIDE CISTERN. SOLENOID VALVE TO BE CONTROLLED BY SMART BOX TO BE LOCATED INSIDE RISER ROOM

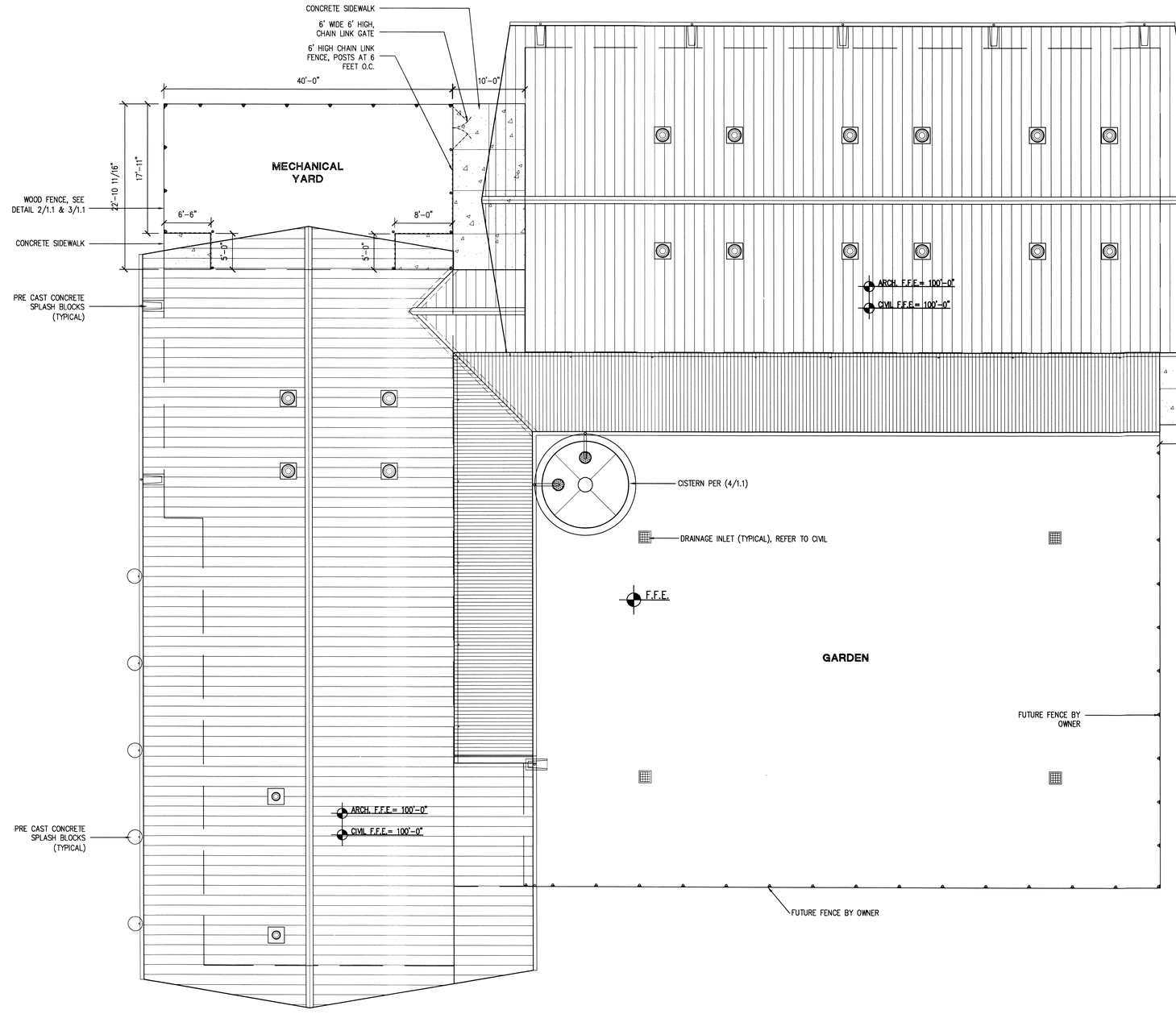
6) INCLUDE 300 MICRON FLOATING SUCTION FILTER INSTALLED ON WATER INTAKE INSIDE TANK.

6) REFER TO SHEET L1.0 FOR IRRIGATION DESIGN

RE: 1/1.1

④ CISTERN SECTION DETAIL

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



RE:

① SITE PLAN

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

NORTH PLAN NORTH

PROJECT # 201305
DATE: 10.1.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
1:
2:
3:
4:

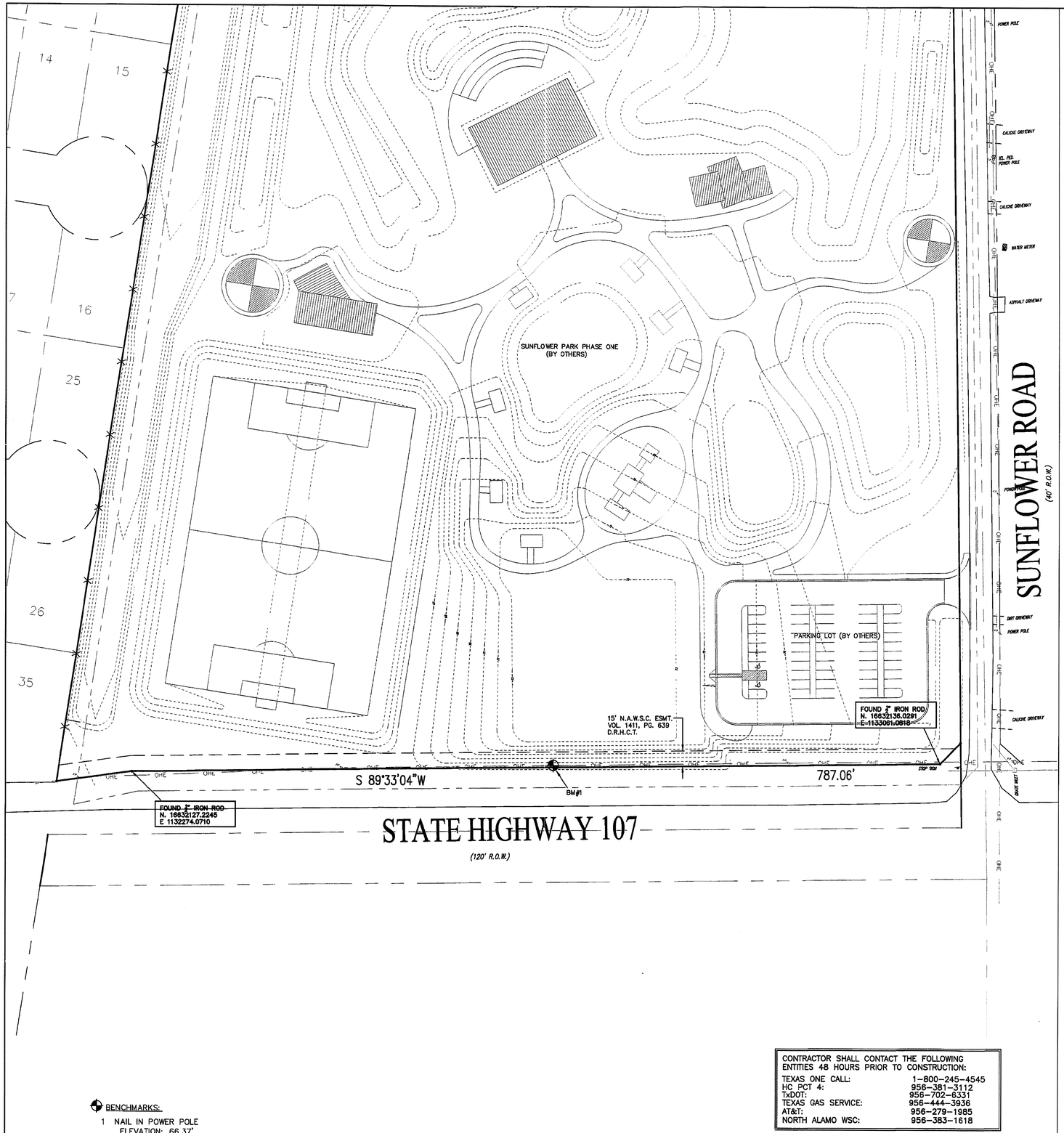
SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER : :

HECTOR R. GARCIA # 13902
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS ll.p
architecture project management interior design
Fernando Mata A.I.A., Partner Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501 Tel : (956) 631-1945 Fax : (956) 631-1988

SHEET: 1.1



BENCHMARKS:

1 NAIL IN POWER POLE
ELEVATION: 66.37'

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:	
TEXAS ONE CALL:	1-800-245-4545
HC PCT 4:	956-381-3112
TxDOT:	956-702-6331
TEXAS GAS SERVICE:	956-444-3936
AT&T:	956-279-1985
NORTH ALAMO WSC:	956-383-1618

GRAPHIC SCALE 1":50'

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL CONTACT LEFEVRE ENGINEERING & MANAGEMENT CONSULTING (956-687-5362) 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN PROJECT SITE.
2. CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO EXCAVATION NEAR THEIR UTILITIES.
3. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LEMC IN WRITING PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THIS CONSTRUCTION OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
4. CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
5. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE CLEARED AND GRUBBED PRIOR TO PLACEMENT OF EXCESS TRENCH MATERIAL (NO ADDITIONAL PAYMENT – INCLUDE IN COST OF UNDERGROUND UTILITIES CONSTRUCTION.)
7. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
8. RETESTING OF ALL UTILITIES AND ACCEPTANCE BY OWNER SUBSEQUENT TO THE PAVEMENT CONSTRUCTION WILL BE THE UTILITY CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY.
9. WHERE CONTRACTOR'S WORK AND/ OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART XI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.D.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION. A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE ENGINEER & OTHER APPROPRIATE PERSONS.
10. LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE LINES AND/ OR OBSTRUCTIONS AHEAD OF EXCAVATION.
11. ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
12. OVERHEAD LINES MAY EXIST ON THE PROPERTY. CLEARLY VISIBLE LINES ARE NOT MARKED, AND CONTRACTOR TO NOTE THEIR LOCATION PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR OBJECTS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS AND OWNERS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
13. CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES, IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COSTS OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR, NO SEPARATE PAY.
14. CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.
15. SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE AS DIRECTED BY THE ENGINEER. IF THE ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR, AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL.
16. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
17. CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
18. PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT.
19. IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
20. WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC, GOVERNMENTAL, AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GOVERNING ENTITIES.
21. TOPOGRAPHIC SURVEY PERFORMED BY HIDALGO COUNTY PLANNING DEPARTMENT-- JUNE 2013

EXIST. CONDITION AND SURVEY CONTROL PLAN

SCALE: 1:50'

LeFEVRE ENVIRONMENTAL & MANAGEMENT CONSULTING, LLC.
612 Nolana, Suite 520
McAllen, Texas 78504
Tel. 956.687.LEMC
Fax. 956.687.5363
Texas Registered Engineering Firm F-11722
Civil Engineering
Environmental Engineering
Planning
Project Management

PROJECT #: 201305
DATE: 00.00.13
DRAWN BY: HO
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS
EMIGDIO SALINAS
107703
LICENSED PROFESSIONAL ENGINEER
9-30-13

LICENSE EXPIRES: 09/30/14

Mata & Garcia ARCHITECTS LLP
architecture | project management | interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
1311 West Ivy Avenue McAllen, Texas 78501
Tel : (956) 631-9415 Fax : (956) 631-1368

SHEET: 2.1

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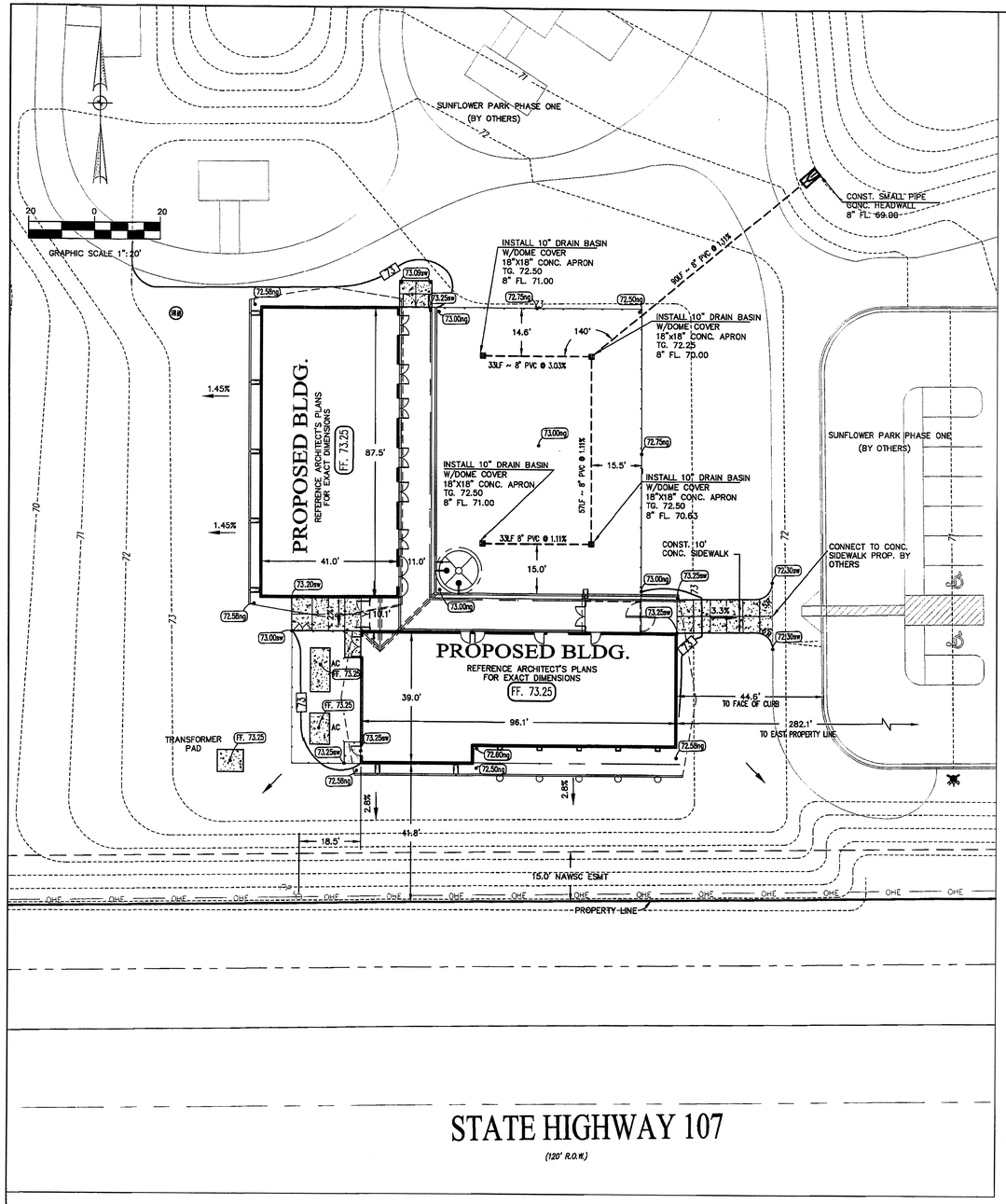

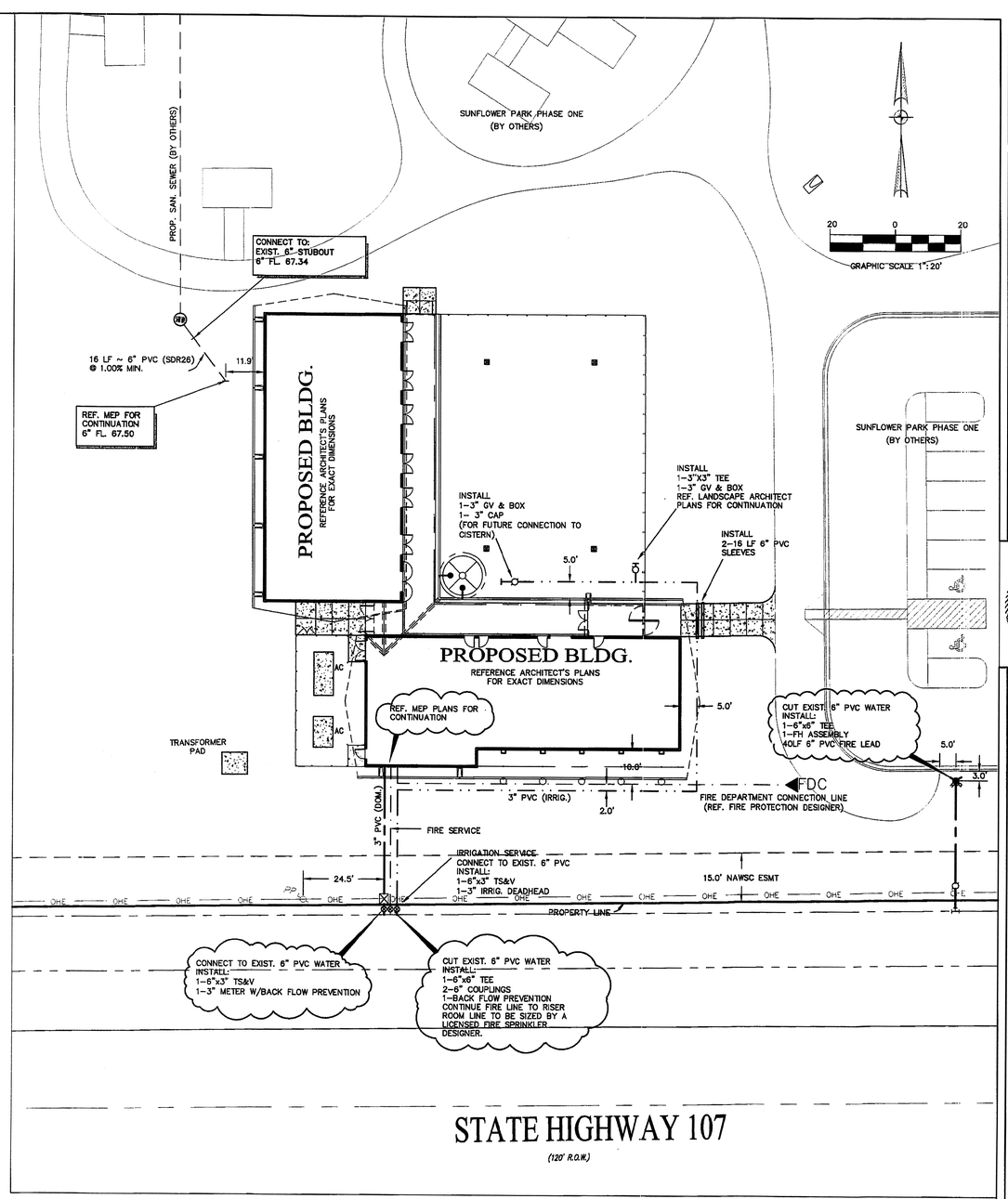

GRADING, DRAINAGE, AND DIMENSIONAL CONTROL PLAN

SCALE: 1:20'

GRADING NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE CITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
3. THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
4. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
5. DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
6. BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED.
7. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEO-TECHNICAL REPORT.
8. ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
9. UPON COMPLETION OF CONSTRUCTION ALL DISTURBED AREAS SHALL BE SEEDED IN ACCORDANCE WITH SPECIFICATION.
10. ALL SIDEWALKS TO COMPLY WITH SECTION 403.3 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL.

LEGEND

- 97.00 – EXISTING CONTOUR
- 103 – PROPOSED CONTOUR
- 00.00xx – PROPOSED SPOT ELEVATION
- xx = ABBREVIATED DESIGNATORS
  - NG NATURAL GROUND
  - TC TOP OF CONCRETE
  - G GUTTER
  - TG TOP OF GRATE
  - FF FINISHED FLOOR
  - FL FLOW LINE
  - SW SIDEWALK
  - EA EDGE OF ASPHALT
- PROPOSED FLOW DIRECTION

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:

TEXAS ONE CALL:	1-800-245-4545
HC PCT 4:	956-381-3112
TxDOT:	956-702-6331
TEXAS GAS SERVICE:	956-444-3936
AT&T:	956-279-1985
NORTH ALAMO WSC:	956-383-1618

UTILITY LAYOUT

SCALE: 1:20'

WATER AND WASTEWATER NOTES:

1. ALL WATER LINES, 6" AND ABOVE SHALL BE AWWA C909 CLASS 150 PSI.
2. EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS 2 FEET BEYOND PROPOSED CURBS OR AS INDICATED.
3. MAXIMUM TRENCH WIDTH FOR ALL PIPE THROUGH 12" DIA. SHALL BE 32".
4. CONTRACTOR TO DESIGN AND INSTALL THRUST BLOCKS AT ALL BENDS IN WATERLINE.
5. SEWER LINES SHALL BE SDR-26.
6. FIRE HYDRANT AND WATER VALVE MUST BE MUELLER OR APPROVED EQUAL.
7. ALL CAST IRON FITTINGS MUST BE WRAPPED IN PLASTIC.

STORMWATER NOTES:

1. ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.

SITE IMPROVEMENT PLAN

SCALE: 1:20'

LeFEVRE ENVIRONMENTAL & MANAGEMENT CONSULTING, LLC.
612 Nolana, Suite 520
McAllen, Texas 78504
Tel. 956.687.LEMC
Fax. 956.687.5363
Texas Registered Engineering Firm F-11722
Civil Engineering
Environmental Engineering
Planning
Project Management

PROJECT #: 201305
DATE: 00.00.13
DRAWN BY: HO
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS
ENRIGNO SALINAS
107709
LICENSED PROFESSIONAL ENGINEER
10-4-13

EMIGNO SALINAS 107703
LICENSE EXPIRES: 09/30/14

Mata & Garcia ARCHITECTS LLP
architecture | project management | interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
Hector Rene Garcia R.A., Partner McAllen, Texas 78501
Tel.: (956) 631-9945 Fax.: (956) 631-9988
104 West Ivy Avenue McAllen, Texas 78501

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SHEET: 2.2

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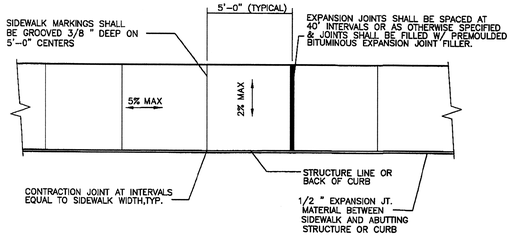
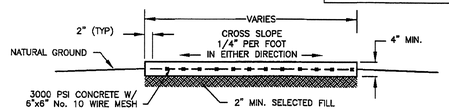
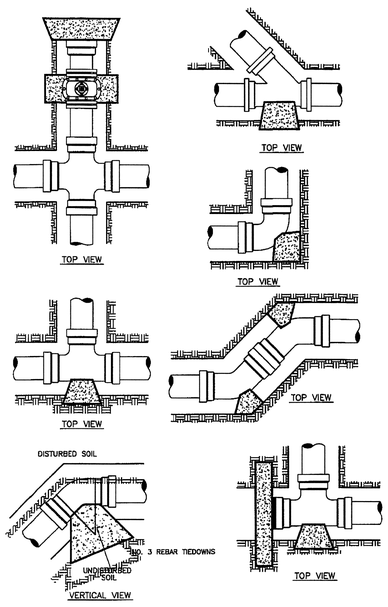


SIDEWALK PLAN 1
SCALE: N.T.S.

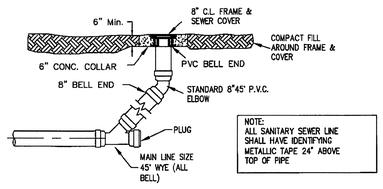
ALL SIDEWALKS TO COMPLY WITH SECTION 403.3 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS)



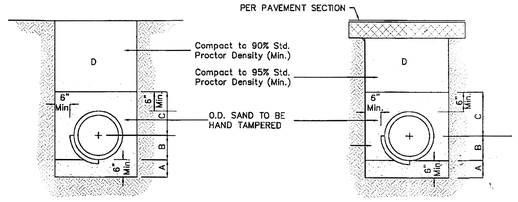
TYPICAL CONC. WALK SECTION 2
SCALE: N.T.S.



THRUST BLOCK DETAILS 3
SCALE: N.T.S.



TYPICAL SANITARY SEWER CLEANOUT DETAIL 4
SCALE: N.T.S.



A. SAND BEDDING TO BE PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE (MIN. THICKNESS = 6")

B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED)

C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED)

D. FILL TRENCH W/SELECT BACKFILL, W/8" LIFTS COMPACT TO 90% STD. PROCTOR

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 90% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STORM LINE – BACKFILL A,B,C,D
SAND TO BE ARROYO SAND W/ PI <15

A. SAND BEDDING PLACED BEFORE PIPE IS LAID UP TO FLOW LINE OF PIPE. (MIN. THICKNESS = 6")

B. SAND BACKFILL PLACED AFTER PIPE IS LAID FROM BOTTOM OF PIPE TO SPRING LINE OF PIPE. (4" LIFTS, WATER JET, HAND TAMPED).

C. SAND BACKFILL PLACED FROM SPRING LINE OF PIPE TO 6" ABOVE TOP OF PIPE. (6" LIFTS, HAND TAMPED).

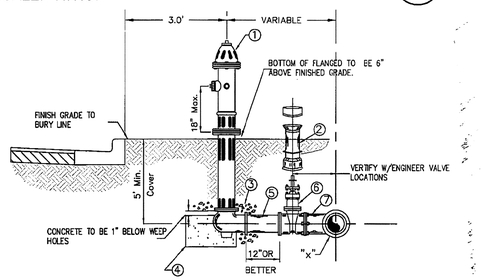
D. FILL TRENCH W/SAND, W/8" LIFTS COMPACT TO 95% STD. PROCTOR

FOUNDATION PREPARATION (WELLPOINTS, GRAVEL OR CEMENT STABILIZATION, OR APPROVED SUBSTITUTE) SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE.

BACKFILLING AT STRUCTURES SHALL BE PLACED IN UNIFORM LAYERS, MOISTENED AS REQUIRED TO APPROXIMATE OPTIMUM MOISTURE CONTENTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. THE THICKNESS OF EACH LOOSE LAYER SHALL BE SAND, APPROVED SITE SOIL OR OTHER APPROVED SUBSTITUTE.

STORM LINE – BACKFILL A,B,C,D
SAND TO BE ARROYO SAND W/ PI <15

BEDDING AND TRENCH BACKFILL DETAIL 5
SCALE: N.T.S.



NOTES:

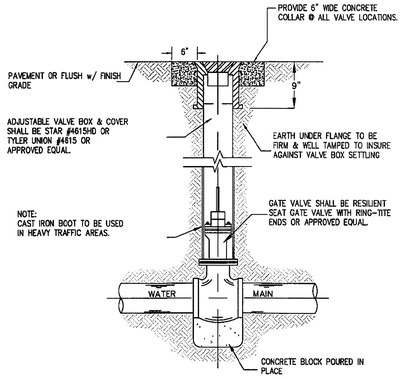
1.) OIL SHALL BE PLACED IN HYDRANT AT THE TIME OF INSTALLATION.
2.) PUMPER NOZZLE SHALL FACE ROADWAY. (5 1/2" M.S.T.)
3.) IN CERTAIN INSTANCES, WHERE DISTANCES PERMITS, A PARALLEL TEE OR UNION-TITE 90° ELBOW W/RESTRAINING LUGS MAY BE USED IN LIEU OF A STANDARD TEE. FINAL APPROVAL BY N.A.W.S.C. REQUIRED.
4.) TAPPING SLEEVES TO HAVE STAINLESS STEEL BOLTS AND NUTS.
5.) ALL VALVES,FITTINGS & HYDRANTS & ACCESSORIES TO BE GREASED & WRAPPED IN PLASTIC.
6.) ALL VALVES,FITTINGS AND ACCESSORIES, VALVE BOXES, METER BOXES AND COVERS WILL BE OF DOMESTIC ORIGIN AND APPROVED BY N.A.W.S.C.

FIRE HYDRANT INSTALLATION
CONSIST OF FIRE HYDRANT, VALVE AND VALVE BOX

FIRE HYDRANT UNIT SHALL INCLUDE:

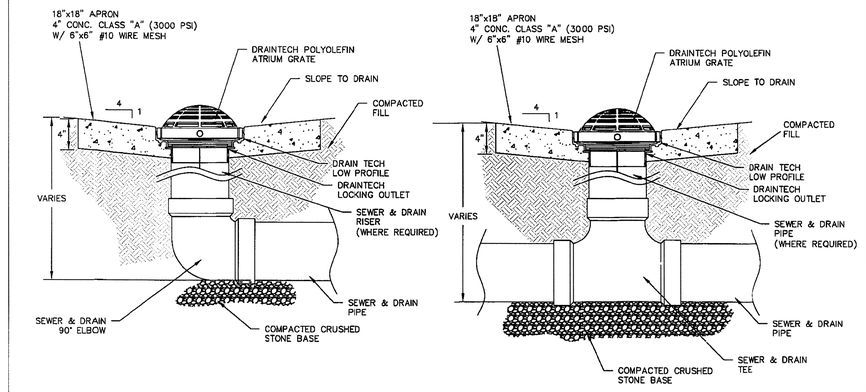
1.) 1- FIRE HYDRANT w/ (4 1/2" PUMPER NOZZLE)
2.) 1-VALVE BOX (DOMESTIC)
3.) 3 CU. FT. GRAVEL
4.) 3 CU. FT. CONCRETE 1" BELOW HYDRANT WEEP HOLES)
5.) 1" OR BETTER PVC SPOOLS
6.) 1-8" RESILIENT SEAT GATE VALVE (FLANGED X M.J.)
7.) 1-X"x6" CAST IRON TEE x" WATER MAIN DIA. (FLANGED X M.J.)

STANDARD FIRE HYDRANT INSTALLATION 6
SCALE: N.T.S.



MUELLER (A-2360 SERIES) OR AMERICAN DARLING (SERIES 500) ONLY

TYPICAL VALVE AND VALVE BOX 7
SCALE: N.T.S.



NOTE: ADS SYSTEM USED AS BASIS OF DESIGN. CONTRACTOR MAY USE APPROVED EQUAL

NOTES:

1. MAX COVER OVER TOP OF PIPE IS 4 FT.CONTACT ADS IF OTHERWISE GREATER.
2. GRATE OR LID MUST BE INSTALLED PRIOR TO BACKFILLING

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REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
1	UPDATED DRAWING	TJR	09/17/07	

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

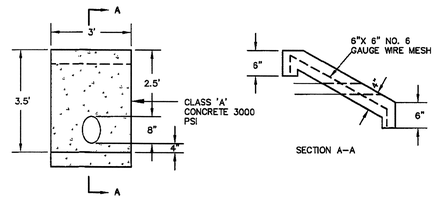
SEWERADRAIN ELBOW/TEE W/SEWER &DRAPIPE & ADAPTER W/ATRIUM GR.

DRAWING NUMBER: STD-1112A

ADS ADVANCED DRAINAGE SYSTEMS, INC. 4640 TRUEMAN BLVD HILLIARD, OHIO 43026

DRN BY: JCB
DATE: 09.22.05
SCALE: NTS
SHT OF

TYPICAL LANDSCAPE INLET DETAIL 8
SCALE: N.T.S.



SMALL PIPE CONC. COLLAR DETAIL 9
SCALE: N.T.S.

MISCELLANEOUS DETAILS
SCALE: AS SHOWN

PROJECT #: 201305
DATE: 00.00.13
DRAWN BY: HO
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS COMMUNITY RESOURCE CENTER
PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS · EMIGDIO SAUNAS · 107703 · LICENSED PROFESSIONAL ENGINEER · 9-30-13
EMIGDIO SAUNAS 107703
LICENSE EXPIRES: 09/30/14

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SHEET: 2.3

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Civil Engineering
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Planning
Project Management

GENERAL NOTES

GENERAL

1. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, SHORING FOR THE EARTH BANKS, FORMS, SCAFFOLDING, PLANNING, SAFETY NETS, SUPPORT AND BRACING FOR CRANES, GIN POLES, ETC. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE COORDINATED BY CONTRACTOR. IF THE FINAL LOCATION VARIES FROM THAT SHOWN ON THE PLANS, CONTRACTOR TO NOTIFY ARCHITECT AND ENGINEER FOR APPROVAL BEFORE INSTALLATION.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR CONDITIONS OF ALL WORK AND MATERIALS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE ARCHITECT. ANY CONFLICT BETWEEN THE DRAWING AND SPECIFICATIONS OF THE VARIOUS TRADES INVOLVED SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER.
7. DETAILS SHOWN ON DRAWINGS APPLY AT SIMILAR CONDITIONS.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH LOCAL STANDARDS AND TO ALL APPLICABLE PROVISIONS OF THE GOVERNING BUILDING CODE.
9. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED IN WRITING WHEN WORK COMMENCES.
10. CONTRACTOR SUBSTITUTIONS: ANY MATERIALS OR PRODUCTS THAT ARE SUBMITTED FOR APPROVAL THAT ARE DIFFERENT FROM THE MATERIALS OR PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS WILL ONLY BE CONSIDERED IF THE FOLLOWING CRITERIA ARE SATISFIED.
    A) A COST SAVING TO THE OWNER IS DOCUMENTED AND SUBMITTED WITH THE REQUEST
    B) THE MATERIAL OR PRODUCT HAS BEEN APPROVED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO) AND THE ICBO REPORT IS SUBMITTED WITH THE REQUEST.

STRUCTURAL OBSERVATION

1. THE PROFESSIONAL ENGINEER OR HIS/HER AUTHORIZED REPRESENTATIVE SHALL CONDUCT ALL STRUCTURAL OBSERVATIONS. STRUCTURAL OBSERVATIONS SHALL BE FOR THE PURPOSE OF ASCERTAINING GENERAL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. HOWEVER, SUCH OBSERVATION VISITS SHALL NOT RELIEVE THE CONTRACTOR FROM HIS OBLIGATIONS AND RESPONSIBILITIES TO THE CONSTRUCTION DOCUMENTS.
2. ITEMS THAT REQUIRE A STRUCTURAL OBSERVATION ARE AS FOLLOWS:
    A. STEEL REINFORCEMENT IN SLAB OR FOUNDATION
    B. FRAMING OF ROOF STRUCTURE
3. NOTIFY ENGINEER 24 HOURS IN ADVANCE WHEN A STRUCTURAL OBSERVATION IS REQUIRED.

DESIGN CRITERIA

1. DESIGN LOADS, STRUCTURAL ANALYSIS AND PREPARATIONS OF STRUCTURAL MEMBERS ARE BASED ON THE FOLLOWING CRITERIA:
2. CODE: ..... IBC 2006
3. VERTICAL LOADS
    A. DEAD LOAD: ..... 20 PSF
    B. LIVE LOAD ROOF (REDUCIBLE): ..... 20 PSF
    C. UPLIFT LOAD ..... SEE ROOF UPLIFT PLAN
    D. MECHANICAL LOAD:
    THE GENERAL CONTRACTOR SHALL SUBMIT ACTUAL WEIGHTS AND LOCATIONS OF EQUIPMENT TO BE USED IN THE PROJECT TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOADS USED IN THE DESIGN AT LEAST TWO WEEKS PRIOR TO FABRICATION AND CONSTRUCTION OF THE SUPPORTING STRUCTURE.
4. LATERAL LOADS
    A. WIND SPEED (V3s): ..... 110 MPH
    B. EXPOSURE CATEGORY: C
    C. IMPORTANCE FACTOR: 1.00
    D. BUILDING CATEGORY: II
    E. SEISMIC DESIGN CATEGORY: ..... A
    F. SITE CLASS: ..... E
5. GEOTECHNICAL ENGINEERING REPORT:
    PROVIDED BY: L&G, INC.
    PROJECT NUMBER: GL 13012
    DATED: 7/18/2013
    FOUNDATION DESIGN BASED ON THE FOLLOWING PARAMETERS
    A. EFFECTIVE PI: 14
    B. CLIMATIC RATING (Cw): 15
    C. MINIMUM BEAM DEPTH: ..... 30 IN
    D. MINIMUM BEAM WIDTH: ..... 12 IN
    E. GRADE BEAM ALLOWABLE BEARING CAPACIT): ..... 600 PSF
    F. SPREAD FOOTING ALLOWABLE BEARING CAPACITY : ..... 700 PSF
    G. EXISTING PVR: ..... .4 IN
    H. PVR (CUT 6", FILL 8 IN): ..... 1 INCH

SHOP DRAWINGS & SUBMITTALS

1. SUBMITTAL THAT WILL BE REQUIRED FOR APPROVAL INCLUDE:
    A. CONCRETE MIX DESIGN
    B. CURING COMPOUND FOR CONCRETE
    C. REINFORCING STEEL
    D. STRUCTURAL STEEL
    E. PRE-MANUFACTURED WOOD TRUSSES INCLUDING REACTIONS
2. ALLOW (2) WEEKS MINIMUM FOR REVIEW OF SHOP DRAWINGS.
3. PRIOR TO ISSUING THE SUBMITTALS TO THE ENGINEER, THE CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSION WITH ARCHITECTURAL PLANS.
4. REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS FOR GENERAL CONFORMANCE TO THE STRUCTURAL DRAWINGS. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER DOES NOT RELIEVE THE CONTRACTOR FOR ANY ERRORS IN DIMENSIONS OR MATERIAL INDICATED ON THE SHOP DRAWINGS.

CONCRETE

1. ALL CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH ACI 318 AND ACI 301 LATEST EDITION.
2. CEMENT SHALL CONFORM TO ASTM CI50 TYPE I AGGREGATE SHALL CONFORM TO ASTM C33.
3. CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH AS FOLLOWS:

MEMBER TYPE	STRENGTH	SLUMP	MAX AGG.
FOUNDATION AND SLAB	3000 PSI	5"	1.5 IN.
PIERS	3000 PSI	5"	1.5 IN.
TILT-UP WALLS	4000 PSI	5"	1.5 IN.
COLUMNS	4000 PSI	5"	1.5 IN.
C.I.P. BEAMS AND LINTELS	4000 PSI	5"	1.5 IN.

4. INSTALL 10 MIL VAPOR RETARDER UNDER SLABS ON GRADE AND ALONG SIDE OF TRENCHES IN ACCORDANCE WITH ASTM E1643. LAP JOINTS MINIMUM OF 12 INCHES.
5. PLACE CONCRETE CONTINUOUSLY BETWEEN PRE-DETERMINED EXPANSION AND CONSTRUCTION JOINTS.
6. ALL CONSTRUCTION JOINT LOCATIONS TO BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER.
7. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED.
8. CURE CONCRETE IN ACCORDANCE WITH ACI 308.1
9. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATIONS OF ALL DEPRESSIONS, OPENINGS, ACCESSORIES, ETC.
10. CONDUIT AND PLUMBING LINES SHALL BE PLACED BELOW SLAB REINFORCING AND SHALL BE NO BIGGER THAN 1 INCH.
11. FLYASH MAY BE USED TO REPLACE A PORTION OF THE PORTLAND CEMENT. THE RATIO OF FLYASH TO THE TOTAL OF THE FLYASH AND CEMENT IN A MIX SHALL NOT EXCEED 20%. FLYASH SHALL CONFORM TO ASTM C618, TYPE C OR F.
12. ALL FLOORS SHALL BE CONSTRUCTED WITH A MINIMUM FLATNESS Ff=35 AND A MINIMUM LEVELNESS OF FL=25
13. CONTRACTION JOINTS TO BE INSTALLED WITHIN 12 HOURS OF POURING FOUNDATION.
14. TESTING OF CONCRETE SHALL BE DONE AS FOLLOWS:
    1) SETS SHALL CONSIST OF 3 CYLINDERS
    ONE TESTED AT 7 DAYS
    TWO TESTED AT 28 DAYS
    2) ONE SET SHALL BE TAKEN FOR EACH 150 CY AND FOR EVERY 5000 SF OF SURFACE AREA AND AT LEAST ONCE PER DAY OF POURING
    3) A MINIMUM OF 3 SETS SHALL BE TAKEN FOR EACH CLASS OF CONCRETE
15. NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE. THE USE OF PLASTICIZERS, RETARDANTS AND OTHER ADDITIVES SHALL BE AT THE OPTION OF THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER. FOLLOW THE RECOMMENDATIONS OF THE MANUFACTURER FOR THE PROPER USE OF ADDITIVES. THE USE OF CALCIUM CHLORIDE OR OTHER CHLORIDE BEARING SALTS SHALL NOT BE PERMITTED.
16. PLACE CONCRETE IN A MANNER SO AS TO PREVENT SEGREGATION OF THE MIX. DELAY FLOATING AND TROWELING OPERATIONS UNTIL CONCRETE HAS LOST SURFACE WATER SHEEN OR ALL FREE WATER. DO NOT SPRINKLE FREE CEMENT ON THE SLAB SURFACE. FINISHING OF SLAB SURFACES SHALL COMPLY WITH THE RECOMMENDATIONS OF AC1 302.1 AND 304.
17. UNLESS SPECIFIED, CONCRETE MUST REACH THE FOLLOWING PERCENTAGES OF ITS 28-DAY COMPRESSIVE STRENGTH (F'c), BEFORE FORMS MAY BE REMOVED.

    WALL, COLUMNS, & BEAM SIDES.....40%
    JOIST PANS & BEAM BOTTOMS (IF RESHORED).....70%
    SHORING FOR FLOOR SYSTEMS (IF NOT RESHORED).....85%
18. NO CONCRETE SHALL BE PLACED OUTSIDE OF THESE SPECIFICATIONS WITHOUT THE OWNER'S PRIOR APPROVAL. ANY ITEMS NOT IN COMPLIANCE WITH THE OUTLINED SPECIFICATION SHALL BE REPORTED TO THE OWNER AND STRUCTURAL ENGINEER WITHIN 24 HOURS.
19. CONSTRUCTION VEHICLE LOADS SHALL NOT BE PERMITTED ON ELEVATED SLABS AT ANY TIME.
20. ALL RETAINING WALLS TO BE SHORED UNTIL UPPER SLAB IS IN PLACE AND HAS REACHED 70% OF ITS DESIGN STRENGTH OR THE RETAINING WALL HAS REACHED 100% OF ITS DESIGN STRENGTH. PROVIDE GRANULAR BACKFILL AND PERFORATED DRAIN PIPE CONNECTED TO SITE DRAINAGE, RE: CIVIL PLAN.

STEEL REINFORCING

1. ALL REINFORCEMENT SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
2. REINFORCING STEEL SHALL BE DESIGNED, DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI DETAILING MANUAL (SP-66) AND CSRI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE, (ACI #315) LATEST EDITIONS.
3. BARS SCHEDULED OR DETAILED "CONT" SHALL BE SPLICED AT POINTS OF MINIMUM STRESS AND WITH A MINIMUM LAP AS FOLLOWS:
    A. HORIZONTAL BARS w/ MORE THAN 12" OF CONCRETE COVER
        #6 BARS AND SMALLER - 46 BAR DIAMETERS
        #7 BARS AND BIGGER - 57 BAR DIAMETERS
    B. OTHER BARS
        #6 BARS AND SMALLER - 36 BAR DIAMETERS
        #7 BARS AND BIGGER - 44 BAR DIAMETERS
4. CORNER REINFORCING BARS SHALL BE USED AT ALL CORNERS AND INTERSECTIONS.
5. EXTEND THE SLAB REINFORCING STEEL PERPENDICULAR TO EXTERIOR GRADE BEAM TO THE TOP OUT SIDE REINFORCING BAR OF BEAM.
6. SPACE REINFORCING BARS WITH MINIMUM CLEAR SPACING IN ACCORDANCE WITH ACI 318 OF ONE BAR DIAMETER, BUT NOT LESS THAN 1 INCH. FOR COMPRESSION MEMBERS, SPACE AT A MINIMUM OF 1.5 INCHES OR 1.5 BAR DIAMETERS, WHICHEVER IS GREATER.
7. WHERE REINFORCING BARS ARE PLACED IN MULTIPLE LAYERS, PLACE UPPER BARS DIRECTLY ABOVE LOWER BARS.
8. MAINTAIN CONCRETE COVER AROUND REINFORCEMENT IN ACCORDANCE WITH ACI 318 AND AS FOLLOWS:
    A. FOOTING AND CONCRETE CAST AGAINST EARTH - 3 INCHES
    B. EXPOSED TO EARTH OR WEATHER
        #6 BARS AND BIGGER - 2 INCHES
        #5 BARS AND SMALLER - 1.5 INCHES
    C. BEAMS AND COLUMNS - 1.5 INCHES
    D. SLABS AND WALLS - 1 INCH
9. REPAIR ANY DAMAGE TO VAPOR RETARDER PER MANUFACTURER SPECIFICATIONS.
10. ADDITIONAL REINFORCING TO BE PROVIDED ON SITE FOR USE AS DIRECTED BY STRUCTURAL ENGINEER.
    #4 BARS - 100 FT.
    #5 BARS - 100 FT.
    #6 BARS - 100 FT.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE TO AISC SPECIFICATIONS.
2. MATERIALS USED SHALL BE AS FOLLOWS=

A. STRUCTURAL W-SHAPES	- ASTM A992 GRADE 50
B. STRUCTURAL M-SHAPES AND S-SHAPES	- ASTM A36
C. STRUCTURAL T-SHAPES	- CUT FROM W-SHAPES
D. CHANNELS AND ANGLES	- ASTM A36
E. ROUND HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
F. SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS	- ASTM A500 GRADE B
G. STRUCTURAL PLATES	- ASTM A36
H. STRUCTURAL BARS	- ASTM A36
I. HIGH STRENGTH BOLTS	- ASTM A325
J. ELECTRODES	- SERIES E70

3. ALL WELDING SHALL BE DONE BY CERTIFIES WELDERS IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY SPECIFICATIONS.
4. CONNECTIONS NOT DETAILED AND OR SCHEDULED ON STRUCTURAL DRAWINGS SHALL BE DETAILED BY FABRICATOR AND MARKED FOR ENGINEERS APPROVAL. CONNECTIONS TO BE DESIGNED TO AISC SPECIFICATIONS AND SHALL BE CAPABLE OF SUPPORTING 55% OF THE MAXIMUM UNIFORM LOAD CAPACITY FOR THE SPAN SPECIFIED, SHOWN IN THE TABLES OF UNIFORM CONSTANTS OF THE AISC MANUAL OF STEEL CONSTRUCTION.
5. REFER TO ARCHITECTURAL PLANS FOR ANY MISCELLANEOUS STEEL. MISCELLANEOUS STEEL AND CONNECTIONS SHALL BE DESIGNED BY STEEL FABRICATOR.
6. HOT DIP GALVANIZE, IN ACCORDANCE WITH ASTM A123 AND ASTM A153, STRUCTURAL STEEL AND FASTENERS PERMANENTLY EXPOSED TO THE WEATHER.
7. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY CONTRACTOR SHALL COORDINATE EXACT LOCATION AND SIZE BEFORE COMMENCING WORK.
8. STRUCTURAL STEEL SHALL BE PAINTED WITH ONE COAT OF RUST INHIBITIVE PAINT.
9. STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED IN WHOLE OR IN PART FOR SHOP DRAWING SUBMITTALS.
10. PROVIDE 1 TONS OF RED IRON ALLOWANCE TO BE USED AS DIRECTED BY STRUCTURAL ENGINEER. INCLUDE LABOR COSTS IN THE ALLOWANCE. ANY UNUSED ALLOWANCE SHALL BE CREDITED BACK TO OWNER AT A COST OF $3500 PER TON.
11. ALL WELDED CONNECTION SHALL BE MADE WITH A 1/4" FILLET WELD U.N.O.
12. PROVIDE 1/2" GAP AT ANY PENETRATIONS THROUGH CMU WALL AND INFILL WITH ELASTOMERIC MATERIAL.
13. STEEL FABRICATOR SHALL BE CERTIFIED BY ONE OF THE FOLLOWING: AISC/ IBC/ IAS-ICC

WOOD FRAMING NOTES

1. ALL FRAMING LUMBER SHALL BE #2 SOUTHERN PINE OR BETTER.
2. PROVIDE SOLID BLOCKING BETWEEN ROOF RAFTERS, CEILING JOISTS AND FLOOR JOISTS AT BEARING LOCATIONS AND AT MID SPAN OF SPANS GREATER THAN 8'-0" OR AS NOTED. SIZE SHALL MATCH FRAMING MEMBER.
3. LAP FRAMING MEMBERS WHICH BEAR ON 2x4 STUDS OR PLATES TO PROVIDE FULL BEARING FOR EACH MEMBER.
4. ALL EXTERIOR STUD WALLS SHALL BE 2x6 AT 16" O.C. AND INTERIOR LOAD BEARING STUD WALLS TO BE 2x4 AT 16" O.C. PROVIDE WIND BRACING AS SHOWN ON PLANS. REFER TO ARCHITECTURAL PLANS FOR NON-LOAD BEARING STUD WALLS.
5. ALL STUD WALLS TO BE CONNECTED TO FOUNDATION WITH 5/8" DIAMETER x 0'-6" "J" BOLTS SPACED AT 3'-2" O.C. MAXIMUM. PROVIDE TWO AT EACH CORNER.
6. ALL EXTERIOR STUD WALLS TO HAVE HORIZONTAL BLOCKING AT 4'-0" O.C. VERTICALLY OF SIZE EQUAL TO STUDS AT PANEL JOINTS.
7. ALL HEADERS TO (2) 2x8 MINIMUM UNLESS NOTED OTHERWISE OR ON SCHEDULE OR PLANS.
8. PROVIDE 4'x8'x5/8" STRUCTURAL I PLYWOOD SHEET AT EACH CORNER OF BUILDING, U.N.O. ON PLANS.
9. SILL PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED WOOD.
10. MINIMUM NAILING OF WOOD SHALL BE PER TABLE 2304.9.1 OF IBC 2006 UNLESS NOTED OTHERWISE ON DRAWINGS.
11. EACH ANCHOR BOLT SHALL HAVE A WASHER WITH A MINIMUM 1-3/8 INCH DIAMETER AND MINIMUM 1/8 INCH THICKNESS.

WOOD SHEATHING

1. SHEATHING FOR ROOF TO BE TYPE CDX EXT., STRUCTURAL I-APA RATED, 5/8" THICK, (32/16).
2. PLACE ROOF SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 6" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.
3. SHEATHING FOR EXTERIOR WALLS SHALL BE STRUCTURAL I-APA RATED, 1/2" THICK, (32/16).
4. PLACE WALL SHEATHING WITH END JOINTS STAGGERED. SECURE SHEETS OVER FIRM BEARING WITH 10D COMMON NAILS AT 6" O.C. AT PANEL EDGES, AT 6" O.C. AT INTERMEDIATE SUPPORTS. ALL SHEATHING TO BE PLACED PERPENDICULAR TO FRAMING MEMBERS.

WOOD TRUSSES

1. DESIGN ACCORDING TO LOADS SHOWN ON DESIGN CRITERIA.
2. TRUSSES SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A TEXAS LICENSED PROFESSIONAL ENGINEER.
3. SHOP DRAWINGS SHALL INDICATE SIZES AND SPACING OF TRUSSES AND ASSOCIATED COMPONENTS, WEB AND CHORD SIZES, PLATE SIZES, FASTENER DESCRIPTIONS AND SPACINGS, LOADS AND TRUSS CAMBERS, FRAMED OPENINGS, AND END REACTIONS.
4. SHOP DRAWINGS SHALL INCLUDE DESIGN CALCULATIONS SIGNED AND SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER.
5. FABRICATE BOTTOM AND TOP CHORD EXTENSIONS AS REQUIRED.
6. SEE MEP DRAWINGS TO COORDINATE ANY OPENINGS REQUIRED IN WEB OF TRUSSES.
7. DO NOT FIELD CUT OR ALTER TRUSS MEMBERS WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
9-24-13

PROJECT # 13227
DATE: 09.29.13
DRAWN BY: M.C.
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

PROJECT : COMMUNITY RESOURCE CENTER
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia
architecture | project management | interior design
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SHEET: S1.0

GENERAL NOTES

STRUCTURAL TESTS AND SPECIAL INSPECTION

1. THE OWNER SHALL EMPLOY A SPECIAL INSPECTOR TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THIS SECTION.

2. THE FOLLOWING TERMS AND PHRASES SHALL HAVE THE MEANINGS SHOWN BELOW AS IT PERTAINS TO THIS SECTION,
   A. APPROVED AGENCY- AN ESTABLISHED AND RECOGNIZED AGENCY REGULARLY ENGAGED IN CONDUCTING AND FURNISHING SPECIAL INSPECTION SERVICES.
   B. APPROVED FABRICATOR - AN ESTABLISHED AND QUALIFIED FIRM APPROVED BY BUILDING OFFICIAL. SPECIAL INSPECTIONS ARE NOT REQUIRED WHEN WORK IS PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
   C. SPECIAL INSPECTION, CONTINUOUS- THE FULL TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.
   D. SPECIAL INSPECTION, PERIODIC - THE PART TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION.

3. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED THEY SHALL BE BROUGHT TO THE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.

4. THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION.

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	X	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360, SECTION A3.3	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	X	——	——
2. INSPECTION OF HIGH-STRENGTH BOLTING:				
a. BEARING-TYPE CONNECTIONS.	——	X	AISC 360, SECTION M2.5	1704.3.3
b. SLIP-CRITICAL CONNECTIONS.	X	X		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:				
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	ASTM A 6 OR ASTM A 568	1708.4
b. MANUFACTURERS' CERTIFIED MILL TEST REPORTS.	——	——	ASTM A 6 OR ASTM A568	
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:				
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	——	——	AISC 360, SECTION A3.5	——
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.	——	——	——	——
5. INSPECTION OF WELDING: a. STRUCTURAL STEEL:	——	——		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS.	X	——	AWS D1.1	1704.3.1
2) MULTIPASS FILLET WELDS.	X	——		
3) SINGLE-PASS FILLET WELDS > 5/16"	X	——		
4) SINGLE-PASS FILLET WELDS ≤ 5/16"	——	X		
5) FLOOR AND ROOF DECK WELDS.	——	X	AWS D1.3	——
b. REINFORCING STEEL:	——	——	AWS D1.4 ACI 318: 3.5.2	——
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706.	——	X		
2) REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT.	X	——		
3) SHEAR REINFORCEMENT.	X	——		
4) OTHER REINFORCING STEEL.	——	X		
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: a. DETAILS SUCH AS BRACING AND STIFFENING. b. MEMBER LOCATIONS. c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	—— —— ——	X —— ——	——	1704.3.2

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD[a]	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	——	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5b.	——	——	AWS D1.4 ACI 318: 3.5.2	——
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED.	X	——	——	1911.5
4. VERIFYING USE OF REQUIRED DESIGN MIX.	——	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	——	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
6. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	——	ACI 318: 5.9, 5.10	1913.6, 1913.7, 1913.8
7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	——	X	ACI 318: 5.11-5.13	1913.9
8. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES. b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	——	ACI 318: 18.20 ACI 318: 18.18.4	——
9. ERECTION OF PRECAST CONCRETE MEMBERS.	——	X	ACI 318: Ch.16	——
10. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	——	X	ACI 318: 6.2	——
11. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	——	X	ACI 318: 6.1.1	——

TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	——	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	——	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	——	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	——
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	——	X

CONTRACTOR NOTE

THE STRUCTURAL SYSTEM FOR THIS PROJECT SHALL NOT BE CONSTRUCTED BY USING THE STRUCTURAL DRAWINGS ALONE. THESE DRAWINGS WERE DEVELOPED FROM DATA DERIVED PRIMARILY FROM THE ARCHITECTURAL DRAWINGS AND SECONDARILY FROM MEP, CIVIL AND OTHER DISCIPLINES' DOCUMENTS. IT IS INTENDED THAT CONSTRUCTION PROCEED BY UTILIZING ALL OF THE INFORMATION CONTAINED IN THE ENTIRE SET OF CONSTRUCTION DOCUMENTS TAKEN AS A WHOLE; FAILURE TO DO SO WILL RESULT IN ERRORS WHICH SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

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LICENSED
PROFESSIONAL ENGINEER
9-24-13

PROJECT #: 13227
DATE: 09.29.13
DRAWN BY: IF
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

PROJECT : COMMUNITY RESOURCE CENTER
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

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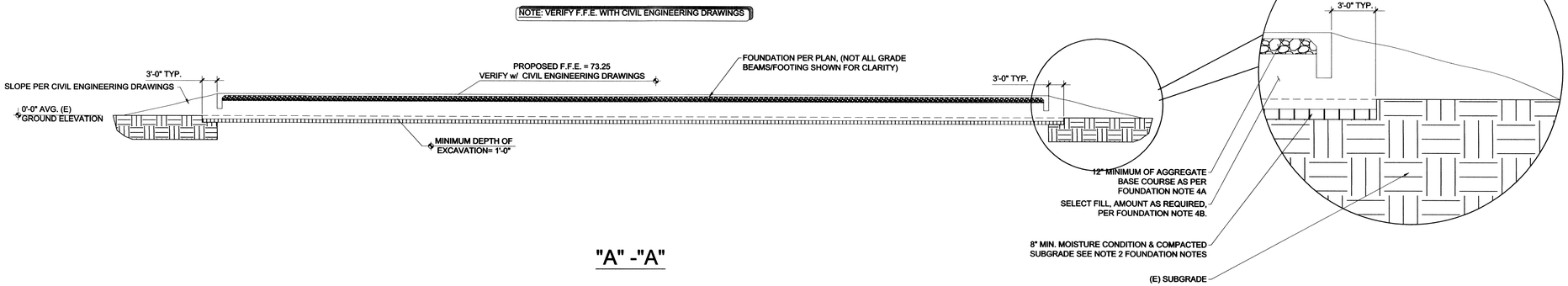
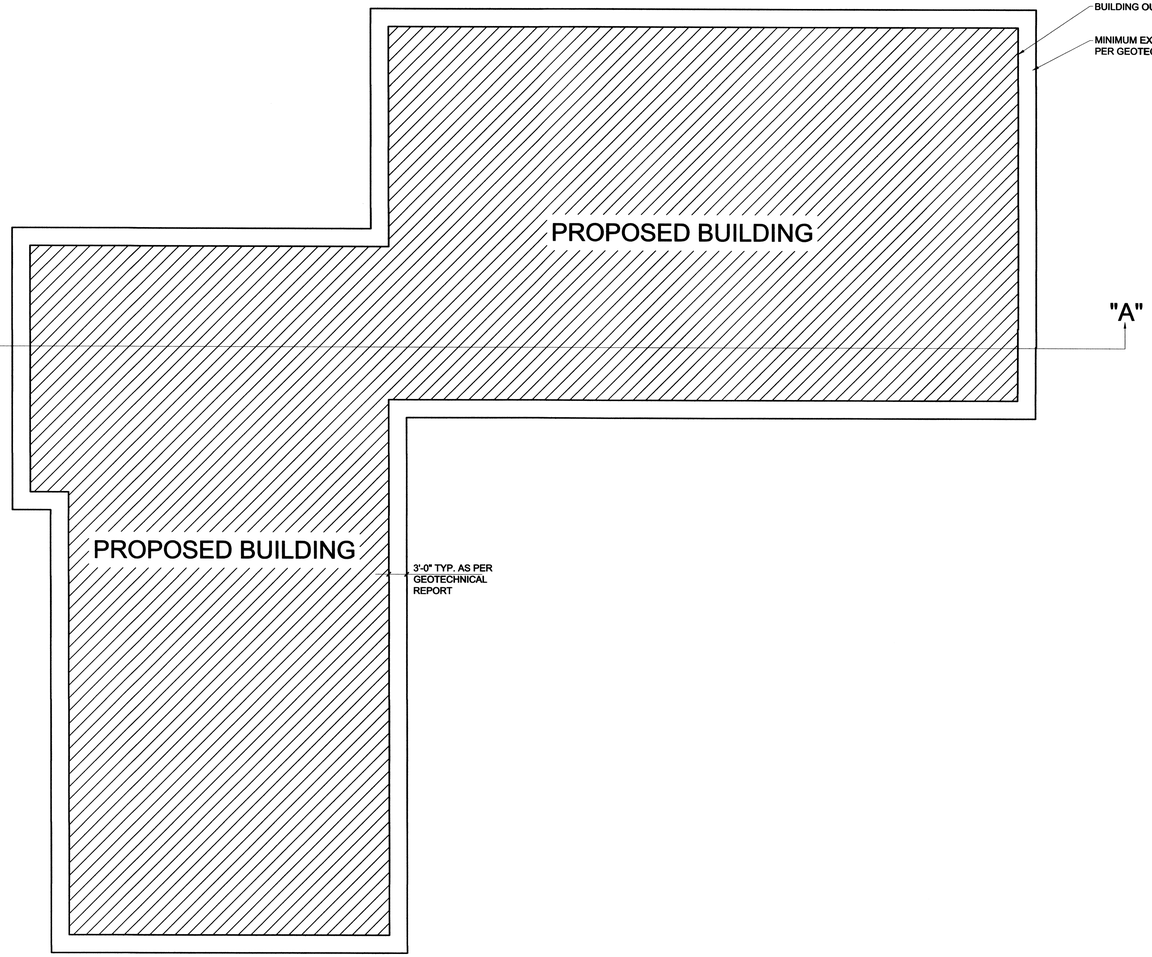


"A" -"A"

PROFILE
SCALE:N.T.S.



EXCAVATION PLAN
SCALE: N.T.S.

FOUNDATION NOTES

1. CONSTRUCTION AREAS REMOVE AT LEAST 6 TO 12 INCHES OF TOP SOIL, VEGETATION, DEBRIS, ETC., FROM THE PROPOSED BUILDING AREA TO A DISTANCE OF 3'-0" OUTSIDE THE BUILDING LINE PROPOSED.
2. EXPOSED SUBGRADE SHOULD BE THOROUGHLY PROOF ROLLED WITH A 20 TON PNEUMATIC ROLLER OR A FULLY LOADED DUMP TRUCK IN ORDER TO LOCATE AND DENSIFY ANY WEAK, COMPRESSIBLE ZONES. WEAK OR SOFT AREAS IDENTIFIED DURING PROOF ROLLING SHOULD BE REMOVED AND REPLACED WITH A SUITABLE, COMPACTED SELECT FILL IN ACCORDANCE WITH THE REQUIREMENTS BELOW. PRIOR TO FILL PLACEMENT, THE EXPOSED SUBGRADE SHOULD BE MOISTURE CONDITIONED BY SCARIFYING TO A MINIMUM DEPTH OF 8" AND RECOMPACTING TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED FROM THE ASTM D698 COMPACTION TEST. THE MOISTURE CONTENT SHOULD BE MAINTAINED WITHIN -2 TO +2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
3. FILL BACK TO REQUIRED GRADE (A MINIMUM OF 36" OF SELECT FILL IS REQUIRED. REFER TO CIVIL PLANS FOR FINISHED FLOOR ELEVATION TO DETERMINE ADDITIONAL AMOUNT OF SELECT FILL NEEDED) WITH MATERIAL SELECTED AND COMPACTED IN ACCORDANCE WITH THE REQUIREMENTS BELOW.
4. SELECT FILL, WHEN PROPERLY SLAKED AND TESTED BY STANDARD LABORATORY METHODS, SHALL MEET THE FOLLOWING REQUIREMENTS:
   A. AGGREGATE BASE COURSE- TOP TWELVE (12) INCHES OF BUILDING PAD SHALL CONSIST OF SOILS CLASSIFIED AS SC OR GC, BY THE USCS OR CALICHE OR CRUSHED LIMESTONE. THE CLAYEY GRAVEL AND CALICHE MATERIALS SHOULD MEET THE GRADATION REQUIREMENTS OF ITEM 247, TYPE E, GRADE 4 AS SPECIFIED IN THE 2004 TxDOT STANDARD SPECIFICATIONS MANUAL AND HAVE A PLASTICITY INDEX BETWEEN 8 AND 20. CRUSHED LIMESTONE OR CRUSHED CONCRETE MATERIAL SHOULD MEET THE REQUIREMENTS OF 2004 TxDOT ITEM 247, TYPE A , GRADE 1. THE SELECT FILL MATERIALS SHOULD BE FREE OF ORGANIC MATERIAL AND DEBRIS, AND SHOULD NOT CONTAIN STONES LARGER THAN 2 INCHES IN THE MAXIMUM DIMENSION.
   B. THE FOLLOWING SOILS, AS CLASSIFIED ACCORDING TO THE USCS, MAY BE CONSIDERED SATISFACTORY FOR USE AS SELECT FILL MATERIALS AT THIS SITE: CL, SC, AND COMBINATIONS OF THESE SOILS. IN ADDITION TO THE USCS CLASSIFICATION, SELECT FILL MATERIALS SHALL HAVE A MAXIMUM LIQUID LIMIT OF 40 PERCENT, A PLASTICITY INDEX BETWEEN 8 AND 20 PERCENT, AND A MAXIMUM PARTICLE SIZE NOT EXCEEDING 2 INCHES OR ONE-HALF THE LOOSE LIFT THICKNESS, WHICHEVER IS SMALLER.
5. SAMPLES OF PROPOSED SELECT FILL SHALL BE FURNISHED TO THE TESTING LABORATORY 7 DAYS PRIOR TO INSTALLATION
   TO PERMIT TIME FOR SPECIFICATION COMPLIANCE INSPECTION AND APPROVAL.
6. AGGREGATE BASE STRUCTURAL FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LOOSE LIFTS NOT TO EXCEED 8" TO 98% OF THE MAXIMUM DENSITY, AT MOISTURE CONTENTS RANGING BETWEEN -2 TO +2 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT.
7. SELECT FILL UNDER ALL FLOORS AND WALKS SHALL BE COMPACTED IN THE FIELD IN LOOSE LIFTS NOT TO EXCEED 8" TO 95% OF THE MAXIMUM DENSITY, AT OR 3% ABOVE OF THE OPTIMUM MOISTURE CONTENT, AS DETERMINED BY THE TEST METHOD ASTM D-698.
8. SITE PREPARATION TESTING SHALL BE AS FOLLOWS:
   A. ATTERBERG LIMITS OF SELECT FILL MATERIAL:
      (1) ONE TEST PER 5,000 CY
   B. COMPACTION TEST:
      TO BE PERFORMED PER LIFT ON TEST PER 3,000 SF MINIMUM
      OF (4) FOUR TEST PER LIFT
9. GEOTECHNICAL REPORT SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS. CONTRACTOR TO REVIEW AND COMPLY WITH ALL EARTHWORK AND GRADING REQUIREMENT IN GEOTECHNICAL REPORT.
10. FINAL SITE GRADING TO SLOPE AWAY FROM THE STRUCTURE AND SHALL PREVENT WATER FROM PONDING IN THE AREAS ADJACENT TO THE STRUCTURE FOR A MINIMUM DISTANCE OF 10'-0". ANY PONDING CLOSE TO THE STRUCTURE MAY CREATE VOLUMETRIC CHANGES IN THE SOIL AND MAY LEAD TO LESS THAN OPTIMUM PERFORMANCE OF THE BUILDING FOUNDATION.
11. IT IS ALSO IMPORTANT TO MINIMIZE CHANGES IN MOISTURE CONTENT CREATED BY ROOF DRAINAGE, PLUMBING LEAKS, LANDSCAPING / IRRIGATION, AND DOWNSPOUT OUTFALLS. ANY PLUMBING LEAKS SHALL BE REPAIRED AS SOON AS POSSIBLE AND PROPER DRAINAGE PROVIDED AWAY FROM THE BUILDING. LARGE BUSHES AND TREES SHALL NOT BE PLACED IN AREAS DIRECTLY ADJACENT TO THE FOUNDATION AS THEIR ROOT SYSTEM MAY CREATE SUBSTANTIAL MOISTURE DIFFERENTIALS THAT MAY LEAD TO VOLUME CHANGES IN THE SOIL. LARGE BUSHES AND TREES SHOULD BE LOCATED AT A REASONABLE DISTANCE FROM THE FOUNDATION.

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PROJECT #: 13227
DATE: 09.29.13
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CHECKED BY: M.C.
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3:
4:

COMMUNITY RESOURCE CENTER
PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

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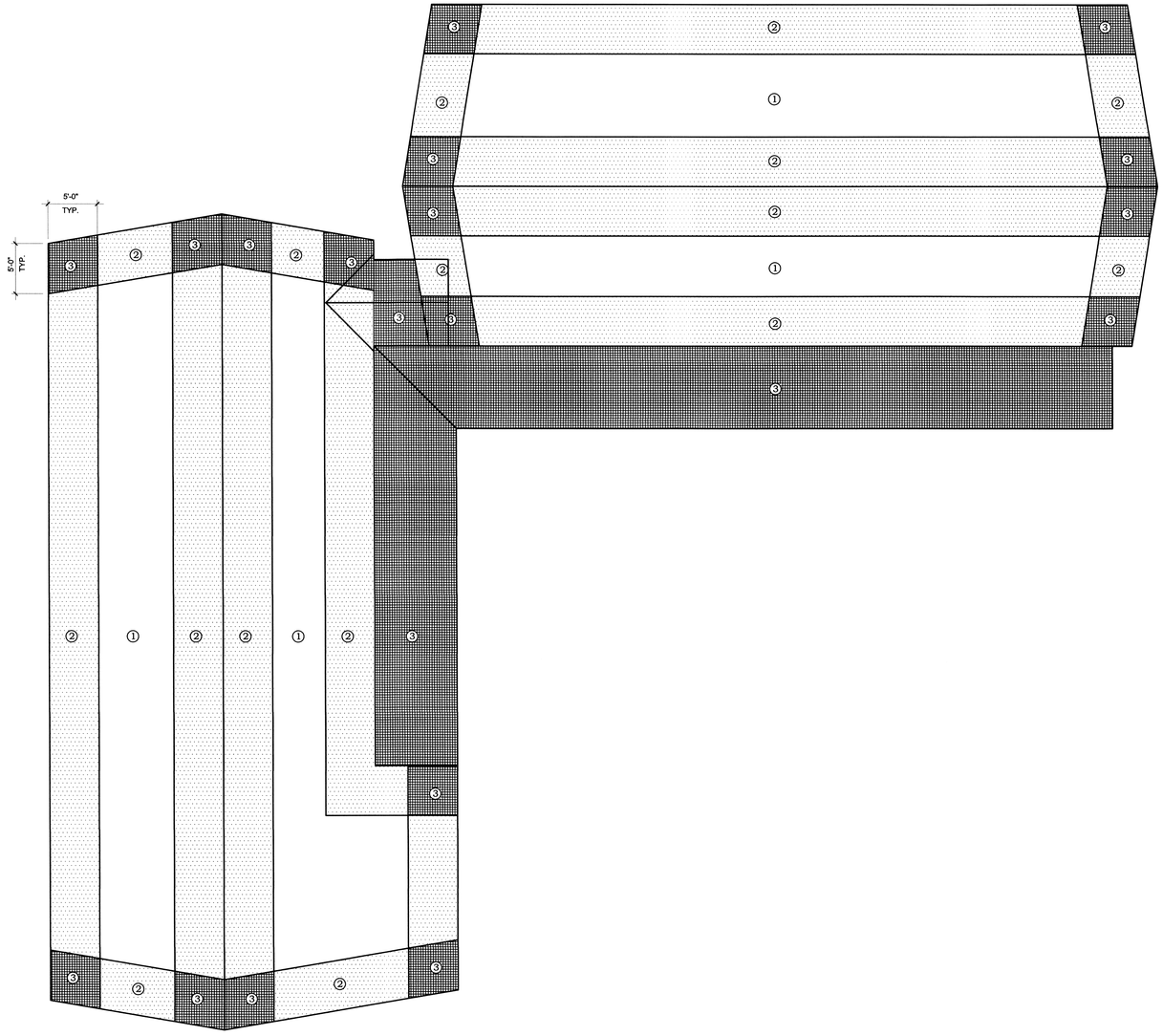
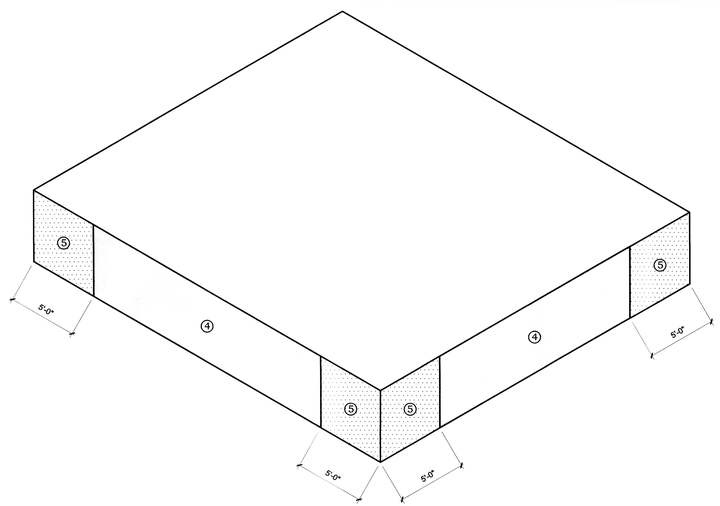
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY



EFFECTIVE WIND AREA	ZONE	GROSS	NET
10	①	24.1 psf	22.1 psf
20	①	23.5 psf	21.5 psf
50	①	22.5 psf	20.5 psf
10	②	42.0 psf	40.0 psf
20	②	38.6 psf	36.6 psf
50	②	34.1 psf	32.1 psf
10	③	62.1 psf	60.1 psf
20	③	58.0 psf	56.0 psf
50	③	52.6 psf	50.6 psf

ROOF UPLIFT PLAN
SCALE: N.T.S.



EFFECTIVE WIND AREA	ZONE	MAX PRESSURE
10	④	28.6 psf
20	④	27.3 psf
50	④	25.8 psf
10	⑤	35.2 psf
20	⑤	32.9 psf
50	⑤	29.8 psf

COMPONENTS AND CLADDING
SCALE: N.T.S.

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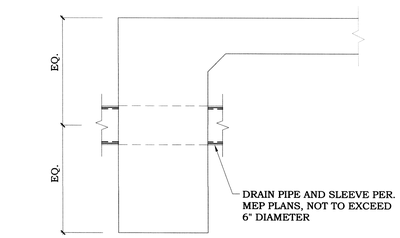
NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

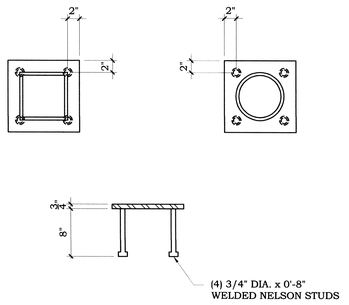


PIPE EXTERIOR FOOTING 13

DROP AT SLAB ON GRADE 14

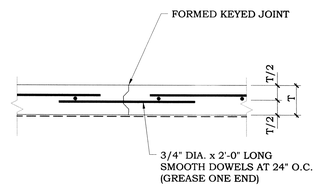
NOT USED 15

NOT USED 16



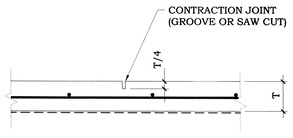
NOTE: DIMENSION FROM EDGE OF PLATE TO FACE OF COLUMN

BASE PLATE DETAIL 9



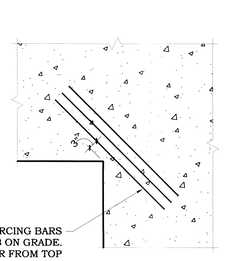
1. CONTRACTOR TO SUBMIT ANY PROPOSED LOCATIONS OF CONSTRUCTION JOINTS TO STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
2. GRADE BEAM REINFORCING SHALL BE CONTINUOUS THRU JOINT

CONSTRUCTION JOINT DETAIL 10



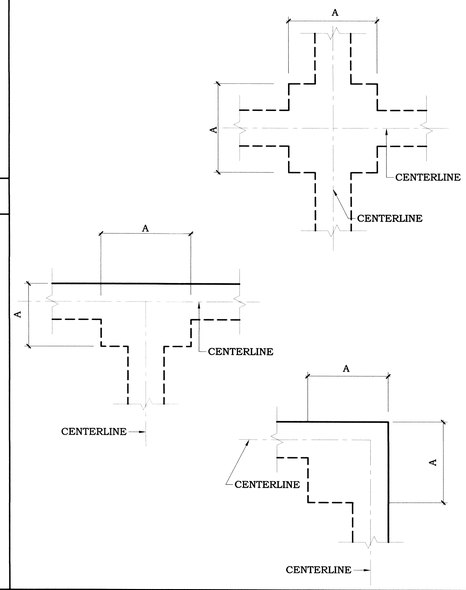
1. JOINT PATTERN SHALL BE NEARLY SQUARE
2. JOINT SPACING SHALL NOT EXCEED 15'-0"

CONTRACTION JOINT DETAIL 11

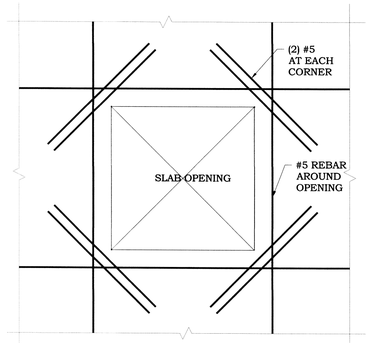


TYPICAL SLAB REINFORCING 12

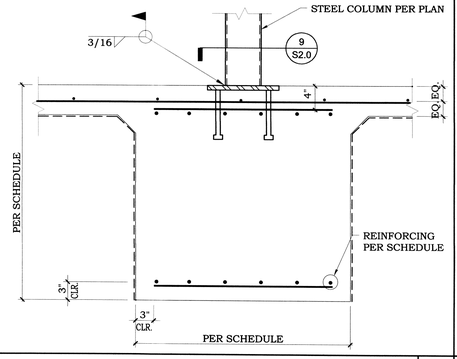
FOOTING SCHEDULE AT STEEL COLUMNS			
TYPE	A	DEPTH	REBAR REINFORCEMENT
S2	2'-6"	2'-0"	#5'S @ 12" O.C. E.W. TOP & BOTTOM



TYPE "S" FOOTING SCHEDULE 6

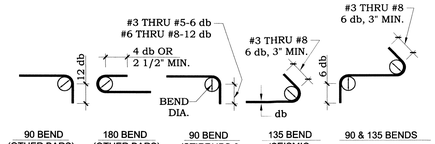


OPENINGS IN SLAB 7



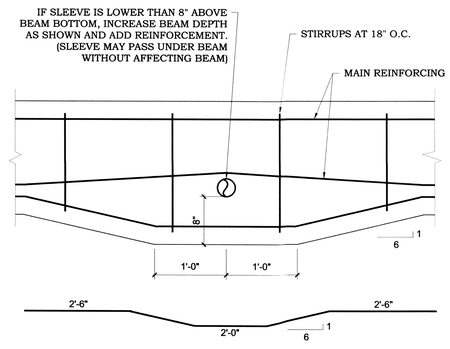
FOOTING AT STEEL COLUMN 8

NOT USED 1

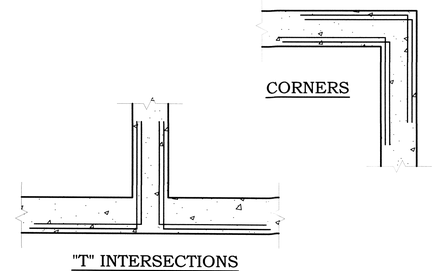


DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

STANDARD HOOKS 2



TYPICAL SLEEVE IN GRADE BEAM 3



NOTE:
PROVIDE (4) #6 x 6'-0" CORNER BARS (2-TOP & 2-BOTTOM) AS SHOWN IN DETAILS ABOVE

TYPICAL CORNER BARS 4

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3:
4:

COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

Mata & Garcia ARCHITECTS l.l.p
architecture | project management | interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501
Tel : (956) 631-1945 Fax : (956) 631-1988

SHEET: S2.0

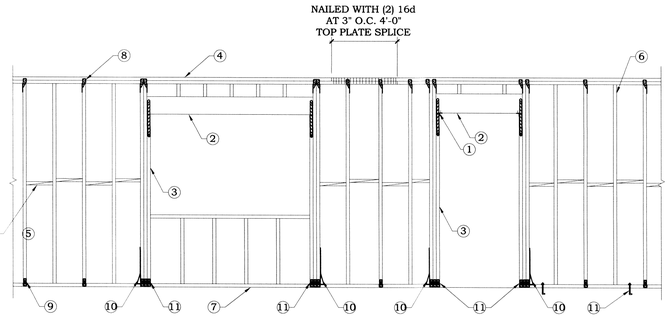
1. SIMPSON CS16 STRAP
2. HEADER PER SCHEDULE (U.N.O.) ON PLANS
3. 2-STUDS ADJACENT FOR EXT. OPENINGS. 1-STUD ADJACENT FOR INT. OPENINGS
4. (2) 2x TOP PLATE
5. 2x BLOCKING AT MID SPAN
6. STUDS AT 16" O.C., U.N.O.
7. 2x SILL PLATE
8. SIMPSON H2.5A AT EVERY OTHERS STUD
9. "RSP4" AT EVERY OTHER STUD
10. "HTT5" AS SPECIFIED
11. (3) "RSP4"
12. 5/8" DIA. J BOLT AT 48" O.C. AT EXTEIOR WALLS OR 5/8" DIA. TITEN HD SCREWS AT 48" O.C. AT INTERIOR WALLS.

HEADERS SHALL BE SUPPORTED AS FOLLOWS:

1. FOR OPENINGS LESS THAN 6'-0", EACH END SHALL REST ON A SINGLE HEADER STUD.
2. FOR OPENINGS GREATER THAN 6'-0", EACH END SHALL REST ON TWO HEADER STUDS.

HEADER SCHEDULE 2x4 WALL

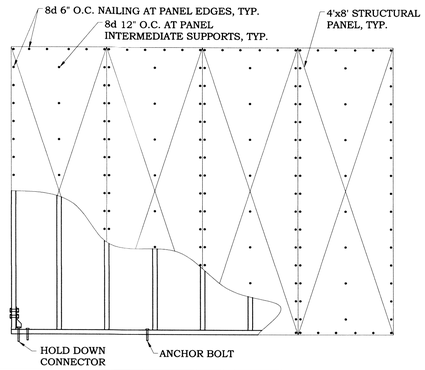
BEARING WALLS		NON-BEARING WALLS	
OPNG. WIDTH	HEADER SIZE	OPNG. WIDTH	HEADER SIZE
3'-4" MAX	2-2x8	4'-0" MAX	2-2x4
6'-0" MAX	2-2x10	6'-0" MAX	2-2x6
7'-6" MAX	2-2x12		
8'-11" MAX	2-2x14		



HEADER SCHEDULE 2x6 WALL

BEARING WALLS	
OPNG. WIDTH	HEADER SIZE
2'-0" MAX	3-2x6
3'-4" MAX	3-2x8
6'-0" MAX	3-2x10
7'-6" MAX	3-2x12
9'-0" MAX	3-2x14

TYPICAL WALL/HEADER SCHEDULE | 9



TYPICAL NAILING PATTERN | 5

NOT USED | 1

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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
9-24-13

PROJECT #: 13227
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DRAWN BY: rr
CHECKED BY: M.C.
REVISION:
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4:

COMMUNITY RESOURCE CENTER
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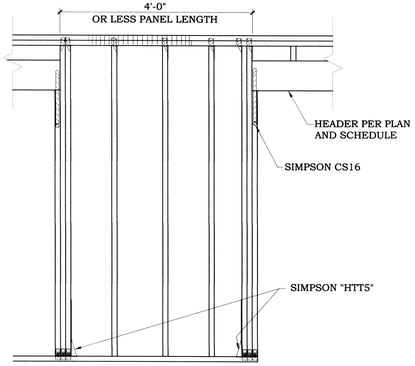
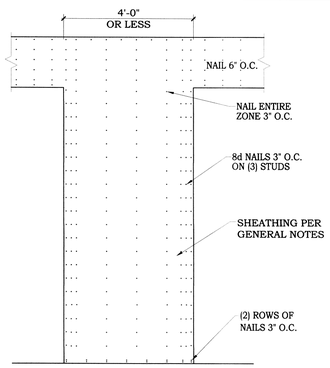
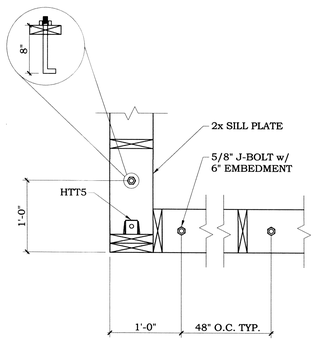
OWNER : HIDALGO COUNTY

NOT USED | 18

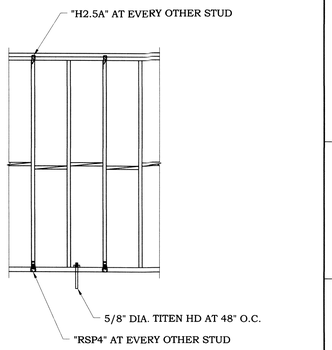




4'-0" OR LESS SHEAR WALLS | 10

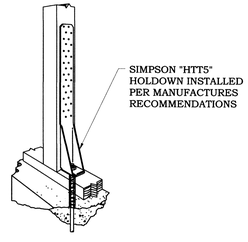


TYP. ANCHOR BOLT PLACEMENT | 6

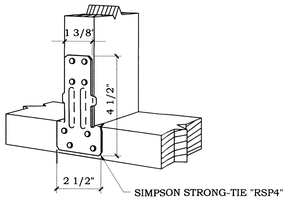


WALL DETAIL AT BEARING WALLS | 2

NOT USED | 19



SIMPSON STRONG-TIE "HTT5" | 7

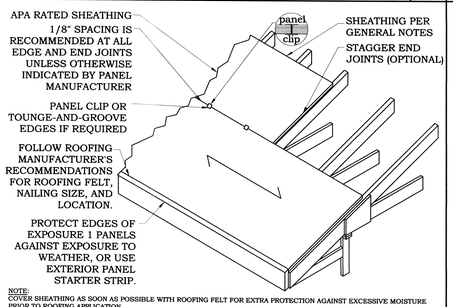


STUD TO BOTTOM PLATE | 3

CONNECTION	FASTENING	LOCATION
JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
BRIDGING TO JOIST	2-8d COMMON (2 1/2" x 0.131")	TOENAIL EACH END
TOP PLATE TO STUD	2-16d COMMON (3 1/2" x 0.162")	END NAIL
STUD TO SOLE PLATE	4-8d COMMON (2 1/2" x 0.131") 2-16d COMMON (3 1/2" x 0.162")	TOENAIL END NAIL
DOUBLE STUDS	16d (3 1/2" x 0.135") AT 24" O.C.	FACE NAIL
DOUBLE TOP PLATES DOUBLE TOP PLATES	16d (3 1/2" x 0.135") AT 16" O.C. 8-16d COMMON (3 1/2" x 0.162")	TYPICAL FACE NAIL LAP SPLICE
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3 1/2" x 0.162")	FACE NAIL
CEILING JOIST TO PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
CEILING JOIST, LAPS OVER PARTITIONS	3-16d COMMON (3 1/2" x 0.162") MIN.	FACE NAIL
CEILING JOIST TO PARALLEL RAFTERS	3-16d COMMON (3 1/2" x 0.162") MIN.	FACE NAIL
RAFTER TO PLATE	3-8d COMMON (2 1/2" x 0.131")	TOENAIL
BUILT-UP CORNER STUDS	16d COMMON (3 1/2" x 0.162")	24" O.C.
BUILT-UP GIRDER AND BEAMS	20d COMMON (4" x 0.192") 32" O.C. 2-20d COMMON (4" x 0.192")	FACE NAIL AT TOP AND BOTTOM ON OPPOSITE SIDES FACE NAIL AT ENDS AND AT EACH SIDE
COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148")	FACE NAIL
JACK RAFTER TO HIP	3-10d COMMON (3" x 0.148") 2-16d COMMON (3 1/2" x 0.162")	TOENAIL FACE NAIL
ROOF RAFTER TO 2-BY RIDGE BEAM	4-16d COMMON (3 1/2" x 0.162") 4-16d COMMON (3 1/2" x 0.162")	TOENAIL FACE NAIL
JOIST TO BAND JOIST	3-16d COMMON (3 1/2" x 0.162")	FACE NAIL
LEDGER STRIP	3-16d COMMON (3 1/2" x 0.162")	FACE NAIL

NOT USED | 20

FASTENING SCHEDULE | 12

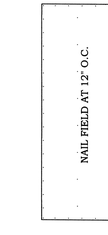


NOTE:
COVER SHEATHING AS SOON AS POSSIBLE WITH ROOFING FELT FOR EXTRA PROTECTION AGAINST EXCESSIVE MOISTURE PRIOR TO ROOFING APPLICATION

SCREENED SURFACE OR SIDE WITH SKID RESISTANT COATING UP IF OSB PANELS ARE USED. KEEP ROOF SURFACE FREE OF DIRT, SAWDUST AND DEBRIS, AND WEAR SKID-RESISTANT SHOES WHEN INSTALLING ROOF SHEATHING.

FOR BUILDINGS WITH CONVENTIONALLY FRAMED ROOFS (TRUSSES OR RAFTERS), LIMIT THE LENGTH OF CONTINUOUS SECTIONS OF ROOF AREA TO 80 FEET MAXIMUM DURING CONSTRUCTION, TO ALLOW FOR ACCUMULATED EXPANSION IN WET WEATHER CONDITIONS. OMIT ROOF SHEATHING PANELS IN EACH COURSE OF SHEATHING BETWEEN SECTIONS, AND INSTALL "FILL IN" PANELS LATER TO COMPLETE ROOF DECK INSTALLATION PRIOR TO APPLYING ROOFING.

TYPICAL ROOF SHEATHING | 8



OSB NAILING (TYP.) U.N.O. | 4

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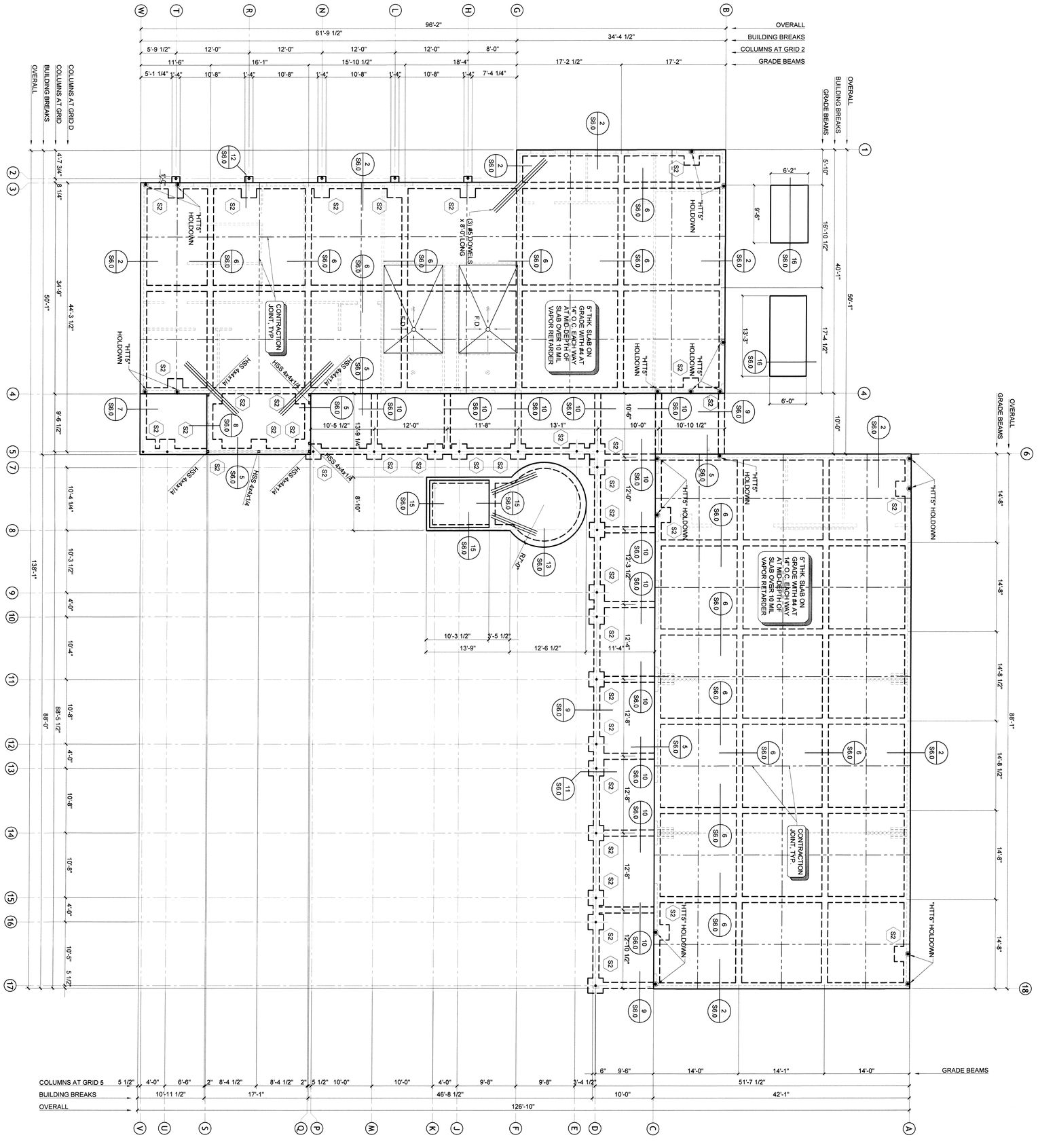
SHEET: S2.1



FOUNDATION NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS BEFORE BEGINNING WORK.
2. CONTRACTOR TO VERIFY LOCATION OF ANCHOR BOLTS AND DRAINS IN SLAB WITH ARCHITECTURAL DRAWINGS.
3. CONTRACTOR TO VERIFY REQUIRED F.F.E. WITH CIVIL ENGINEERING DRAWINGS.
4. REFER TO FOOTING SCHEDULE FOR FOOTING SIZE AND REINFORCEMENT. SEE DETAIL 6/S2.0
5. ALL COLUMNS TO BE 3"DIA. STD. PIPE U.N.O.

FOUNDATION PLAN

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

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93127
LICENSED PROFESSIONAL ENGINEER
9-24-13

SHEET: S3.0

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Fax : (956) 631-1968

COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

PROJECT #: 13227
DATE: 09.29.13
DRAWN BY: lr
CHECKED BY: M.C.

REVISION:
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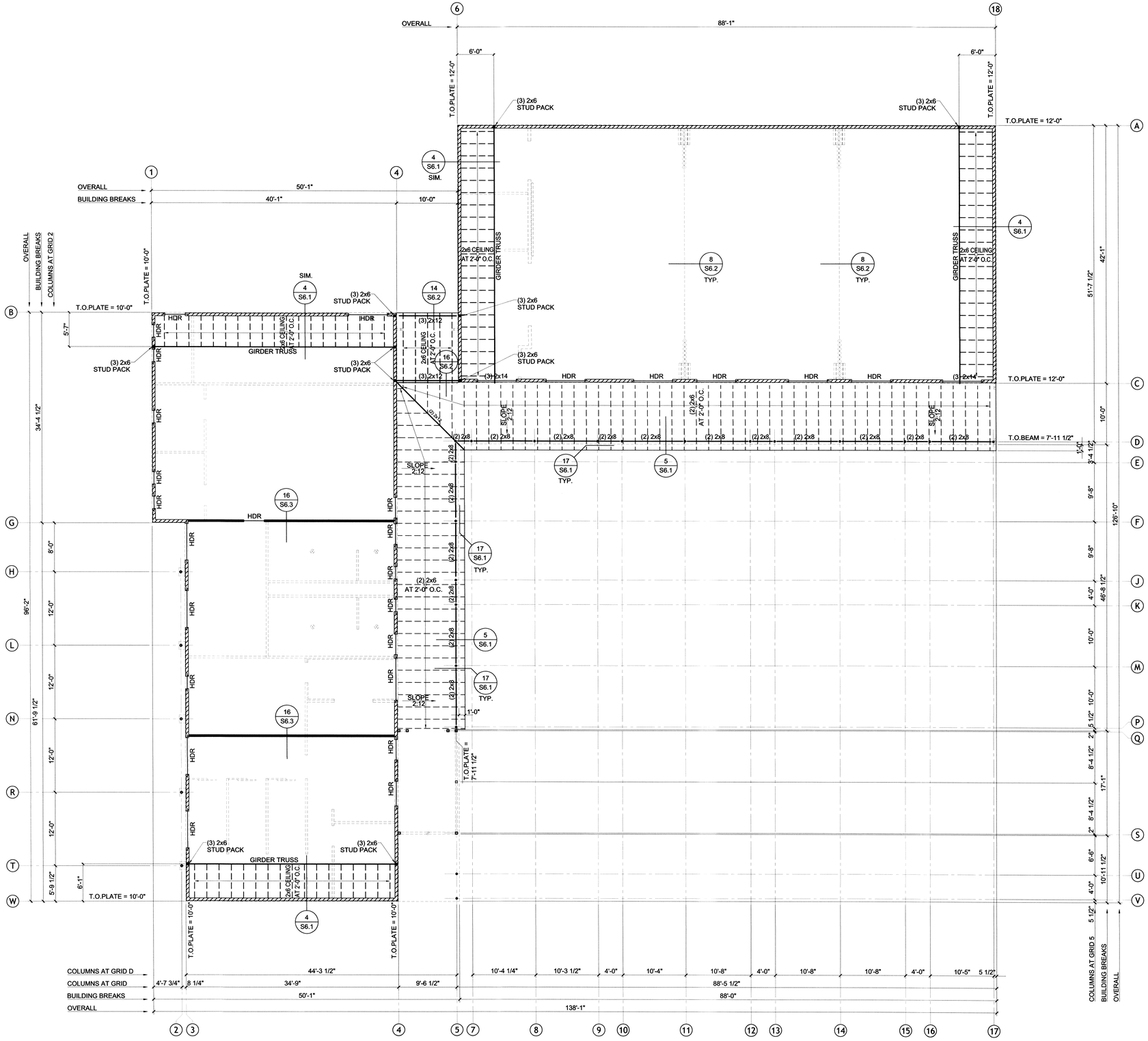

NOTE:
ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
5. CONTRACTOR TO COORDINATE EXACT LOCATION AND SIZE OF ANY AND ALL FLOOR HPENINGS WITH ARCH'L DRAWINGS.
6. REFER TO M.E.P. DRAWINGS FOR ANY HOUSEKEEPING PADS AT MECHANICAL ROOMS.
7. FOR SPECIAL INSPECTION REQUIREMENTS SEE GENERAL NOTES.
8. ALL TOP OF WALLS FROM FINISH FLOOR ELEVATION 0'-0".
9. ////// INDICATES 2x6 STUDS SPACED AT 16" O.C. SHEATHED WITH CDX PLYWOOD, SEE GENERAL NOTES TO NAILING PATTERN.
10. SIMPSON HTT5 HOLDOWN INSTALLED PER MANUFACTURERS RECOMMENDATIONS.
11. ■■■ INTERIOR 2x4 STUDS SPACED AT 16" O.C. w/ 1/2" GYPBOARD. WITH 5D COOLERS AT 7" O.C. BOTH SIDES, SEE DETAIL 5/S2.1 FOR NAILING.
12. ALL INTERIOR SHEAR WALLS SHALL HAVE 1/2" DIA. x 8" LONG TITEN HD ANCHORS SPACED AT 48" O.C. ON BOTTOM SILL PLATE.
14. ALL COLUMNS TO BE 3" DIA. STD. PIPE U.N.O.

STUD WALL PLAN/CANOPY FRAMING PLAN

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

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LICENSED PROFESSIONAL ENGINEER
6-24-13

PROJECT #: 13227
DATE: 06.24.13
DRAWN BY: fr
CHECKED BY: M.C.

REVISION:
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PROJECT : COMMUNITY RESOURCE CENTER
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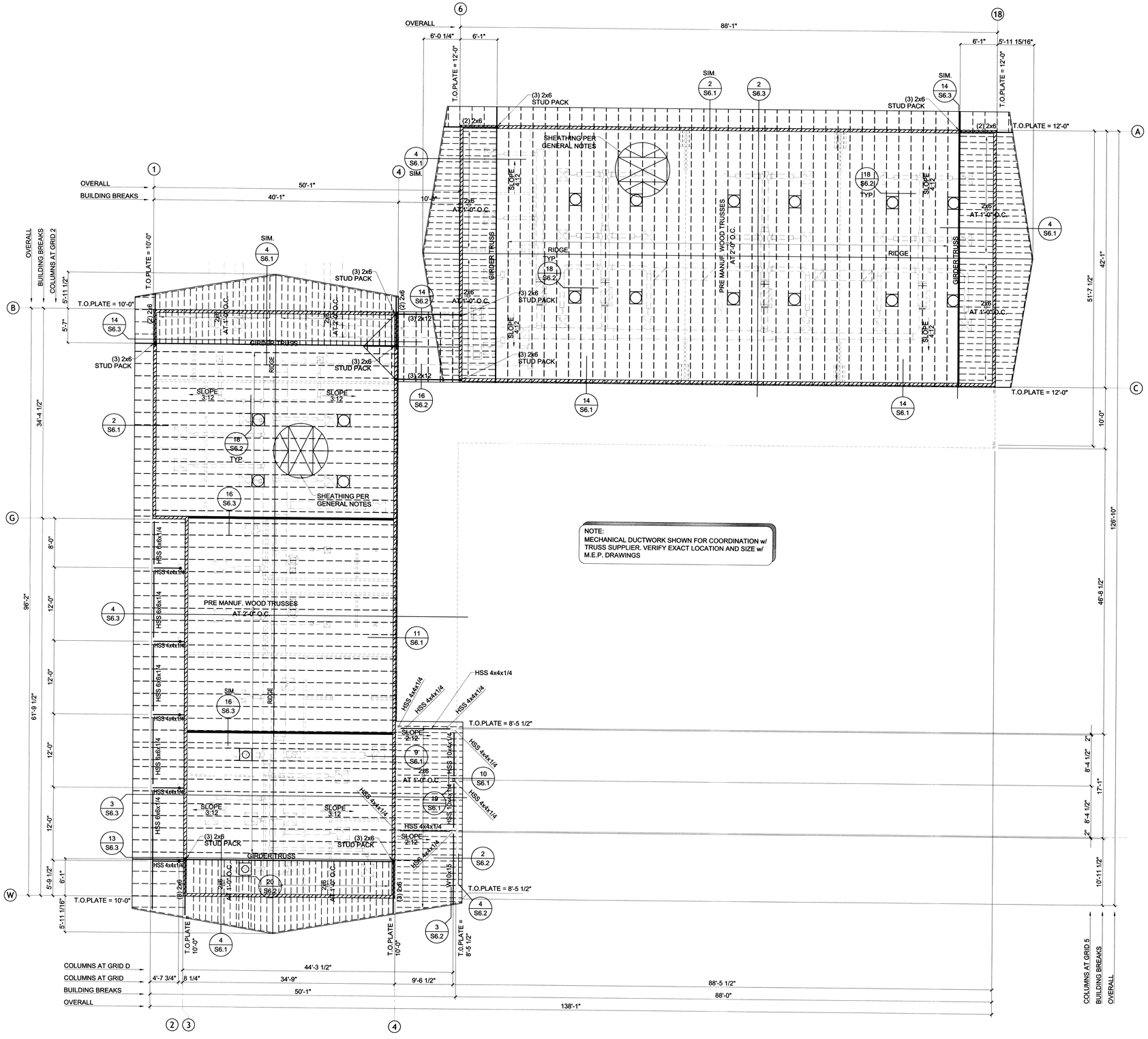

NOTE:
MECHANICAL DUCTWORK SHOWN FOR COORDINATION w/ TRUSS SUPPLIER. VERIFY EXACT LOCATION AND SIZE w/ M.E.P. DRAWINGS

NOTE:
ALL EXPOSED STEEL SHALL BE HOT DIPPED GALVANIZED

FRAMING NOTES:

1. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ANY ADDITIONAL DIMENSIONS.
3. REFER TO ARCH'L PLANS FOR ROOF OVERHANG DIMENSION.
4. CONTRACTOR TO COORDINATE ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SUPPORTED BY THE STRUCTURE WITH THE STRUCTURE MANUFACTURER.
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FRAMING PLAN

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

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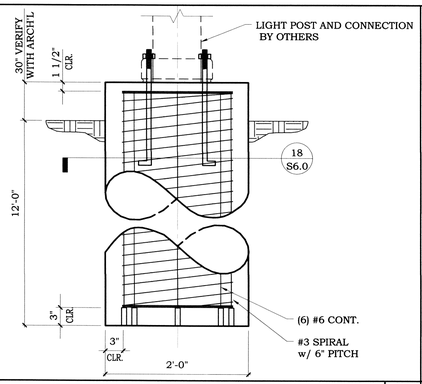
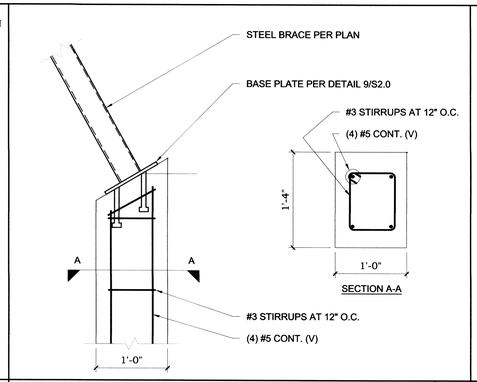
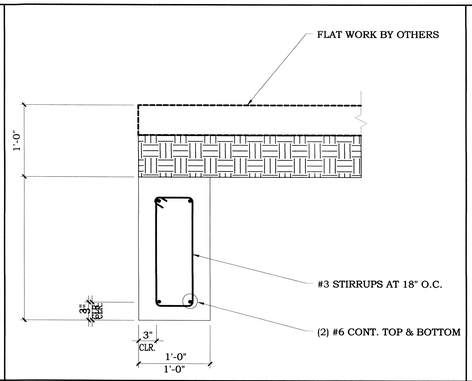


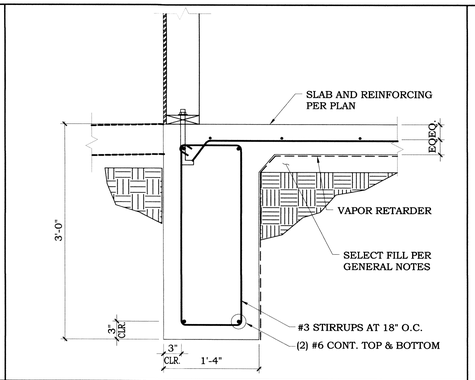
LIGHT POLE DETAIL | 17



STEEL BRACE TO CONCRETE PILASTER | 13



EXTERIOR FOOTING | 9



EXTERIOR FOOTING | 5

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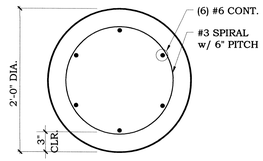
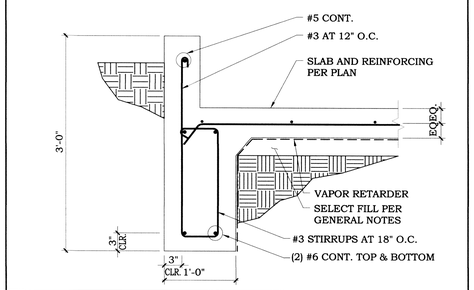
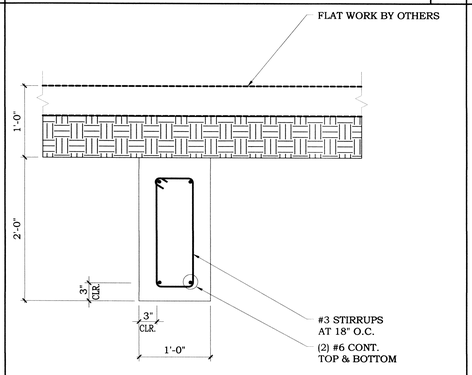


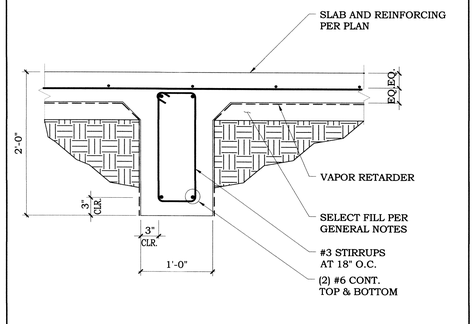
PIER SECTION | 18



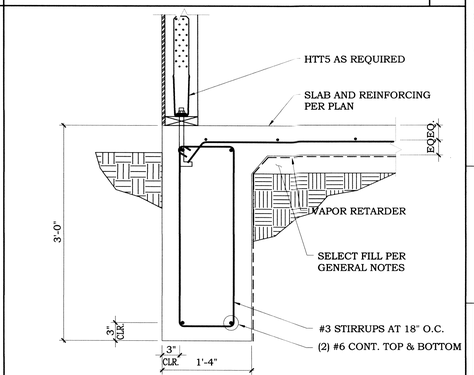
EXTERIOR FOOTING | 14



INTERIOR FOOTING AT CANOPY | 10



INTERIOR FOOTING | 6



EXTERIOR FOOTING | 2

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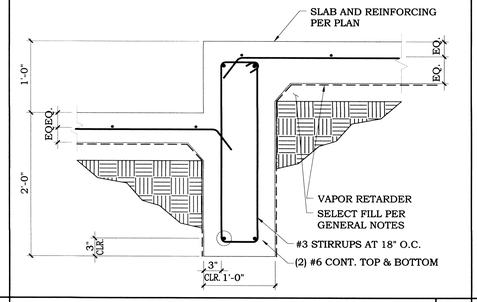
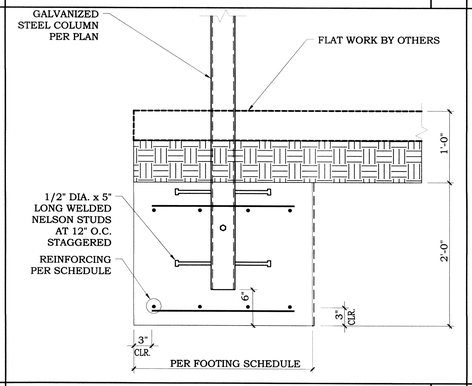
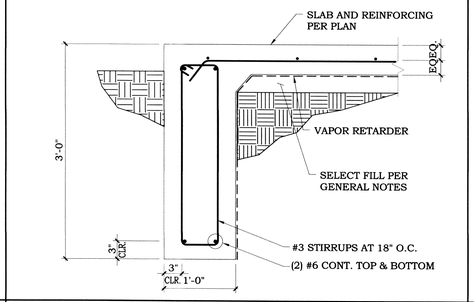


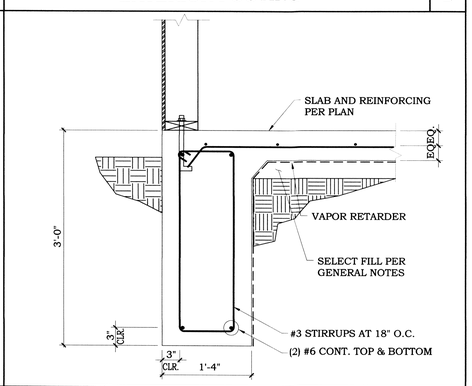
EXTERIOR FOOTING | 15



FOOTING AT STEEL COLUMN | 11

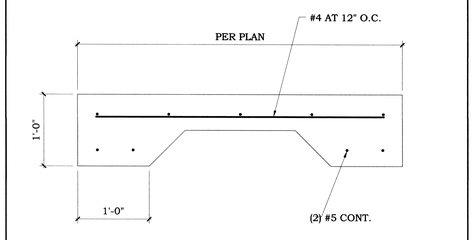


EXTERIOR FOOTING | 7

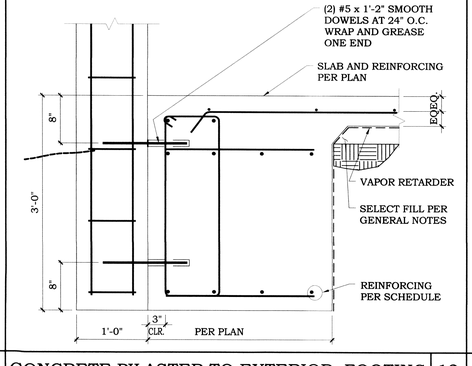


EXTERIOR FOOTING | 3

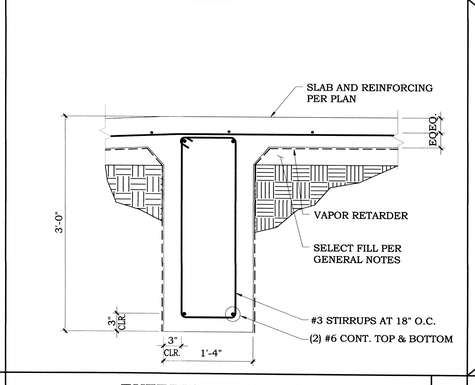
NOT USED | 20



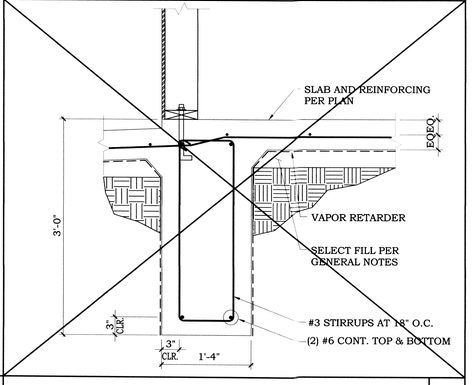
MECHANICAL PAD | 16



CONCRETE PILASTER TO EXTERIOR FOOTING | 12



EXTERIOR FOOTING | 8



EXTERIOR FOOTING | 4

Mata & Garcia
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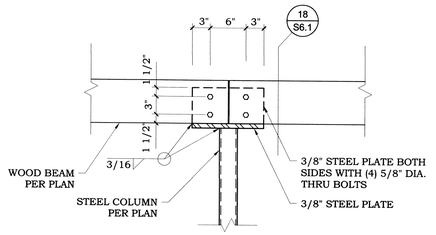
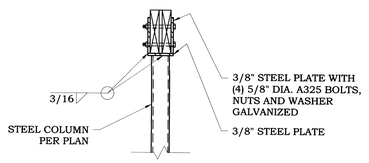
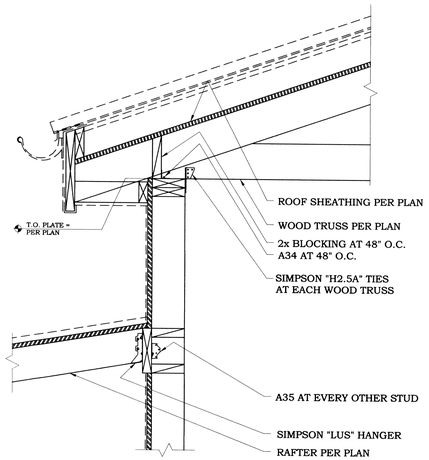
SHEET: S6.0



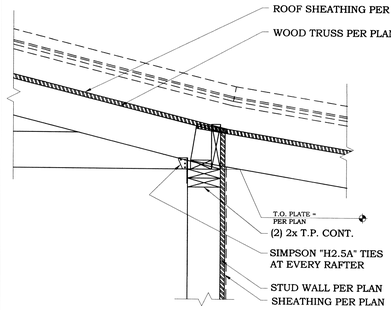
WOOD BEAM TO STEEL COLUMN | 17



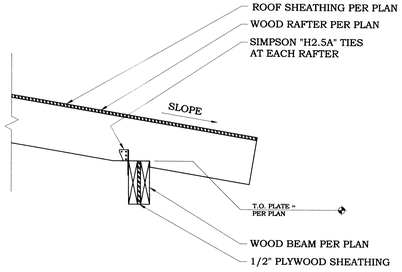
WOOD BEAM TO STEEL COLUMN | 18



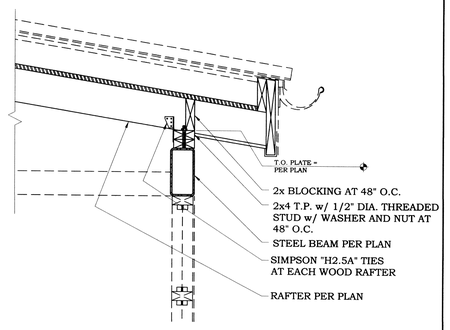
WOOD TRUSS TO STUD WALL | 14



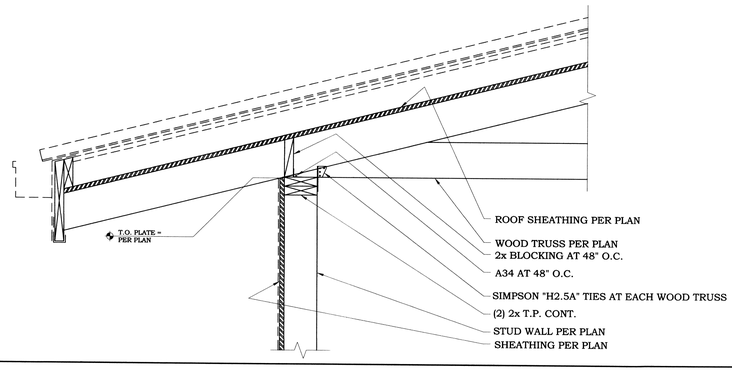
WOOD TRUSSES TO WALL | 9



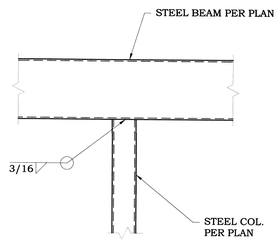
WOOD RAFTER TO WOOD BEAM | 5



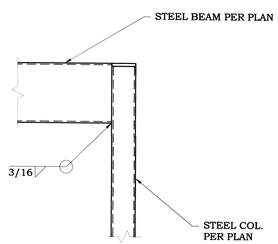
WOOD TRUSSES TO WALL | 10



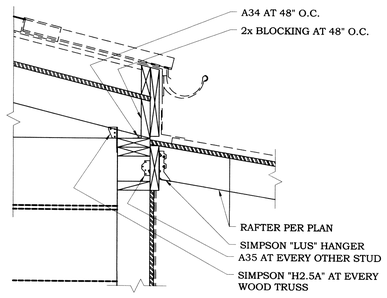
WOOD TRUSS TO STUD WALL | 2



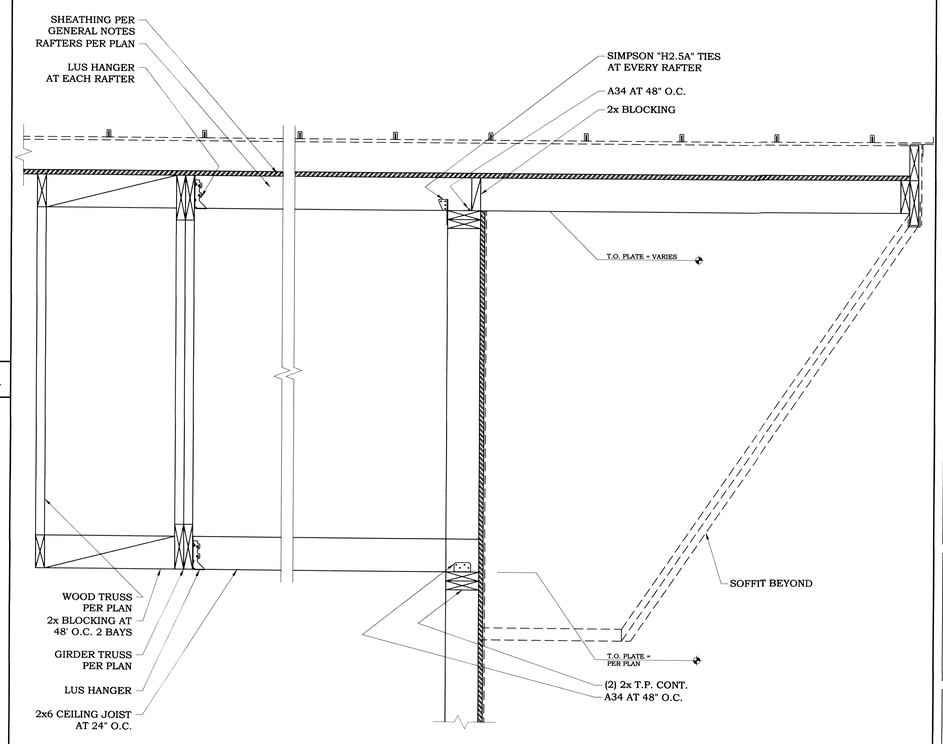
COLUMN TO BEAM CONNECTION | 19



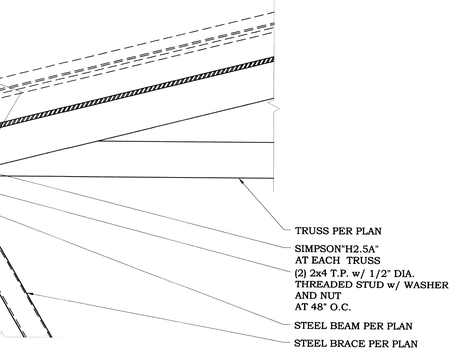
COLUMN TO BEAM CONNECTION | 15



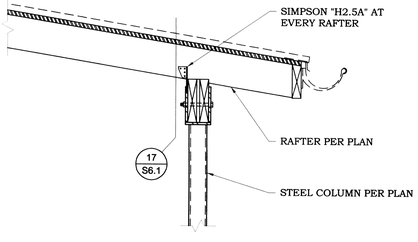
WOOD TRUSS TO STUD WALL | 11



WOOD TRUSS TO STUD WALL | 4



WOOD TRUSS TO STUD WALL | 16



WOOD TRUSS TO STUD WALL | 12

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TBPE FIRM REG. NUMBER F-9369

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED PROFESSIONAL ENGINEER
9-24-13

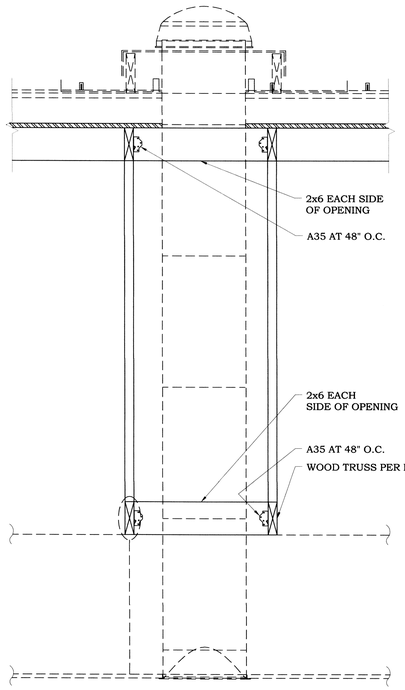
PROJECT #: 13227
DATE: 09.29.13
DRAWN BY: jr
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER

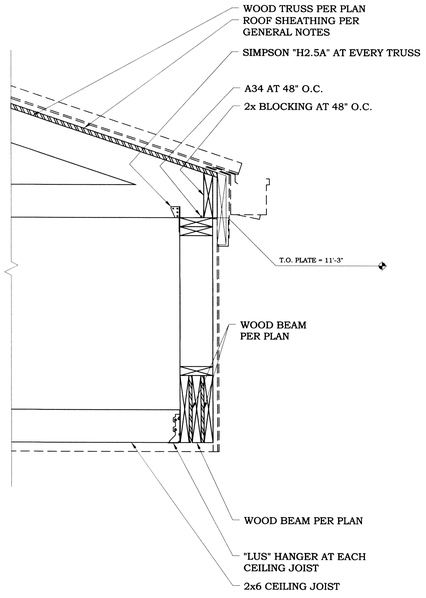
PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

Mata & Garcia ARCHITECTS L.L.P
architecture | project management | interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
134 West Ivy Avenue McAllen, Texas 78501
Tel : (956) 631-1945 Fax : (956) 631-1988

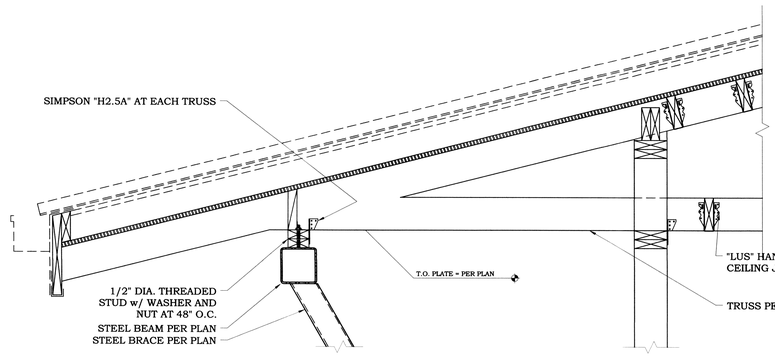
SHEET: S6.1



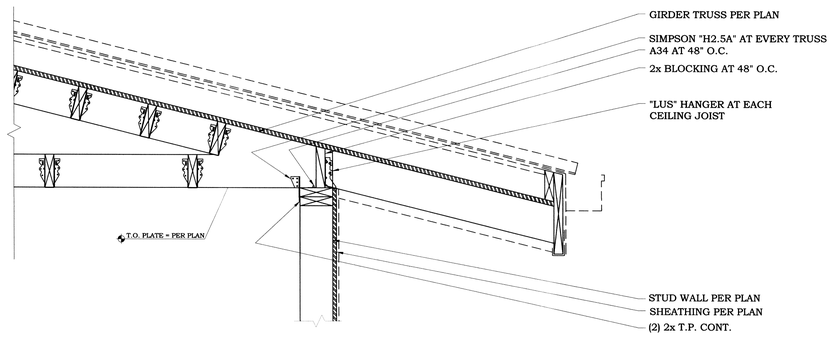
SECTION AT SKY LIGHT | 18



TRUSS TO WOOD TRUSS | 14

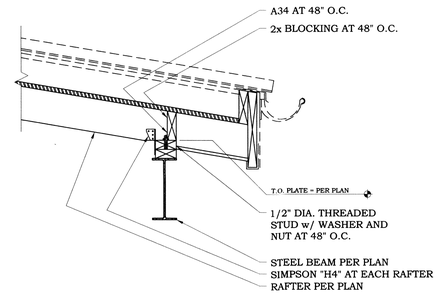


GIRDER TRUSS TO STEEL BEAM | 5

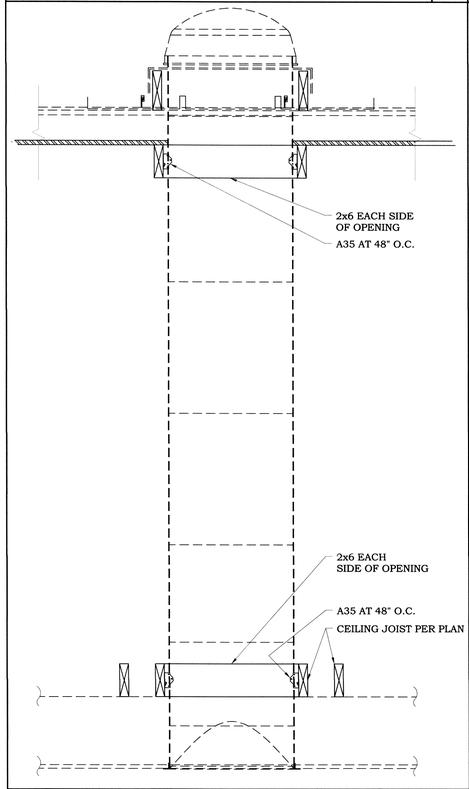


GIRDER TRUSS TO STUD WALL | 6

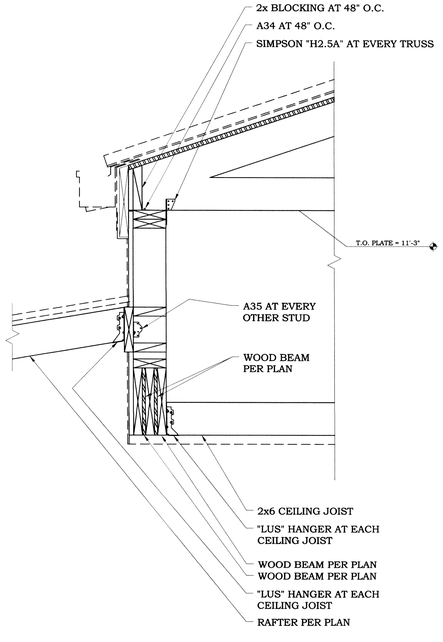
NOT USED



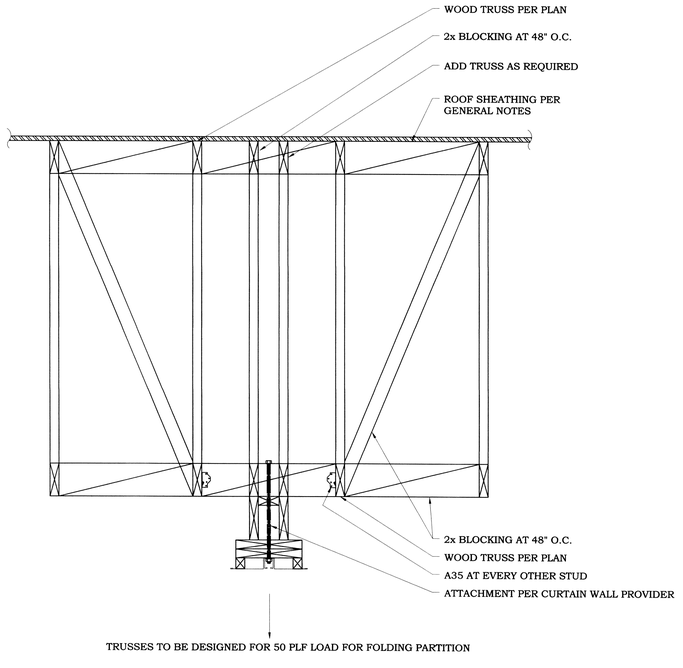
RAFTER TO STEEL BEAM | 2



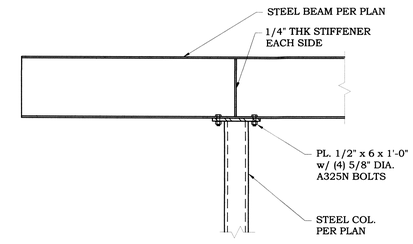
SECTION AT SKY LIGHT | 20



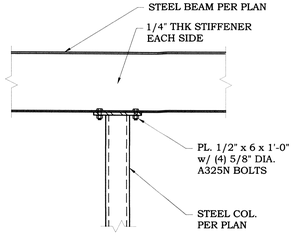
TRUSS TO WOOD BEAM | 16



WOOD TRUSS TO STEEL BEAM | 8



COLUMN TO BEAM CONNECTION | 3



COLUMN TO BEAM CONNECTION | 4

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TBPE FIRM REG. NUMBER F-9369

STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
9-24-13

PROJECT #: 13227
DATE: 09.29.13
DRAWN BY: IR
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER
PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

Mata & Garcia ARCHITECTS L.L.P
architecture
project management
interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
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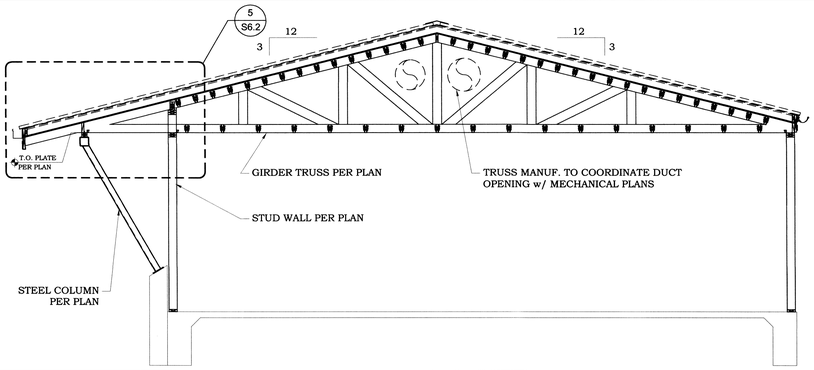
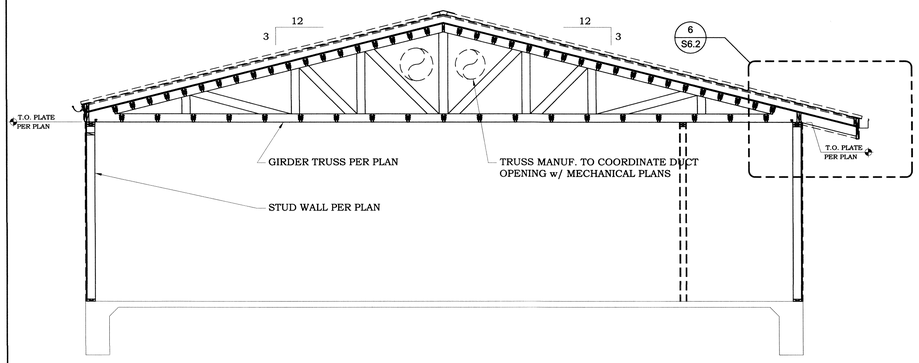
Tel : (956) 631-1945
Fax : (956) 631-1988

SHEET: S6.2



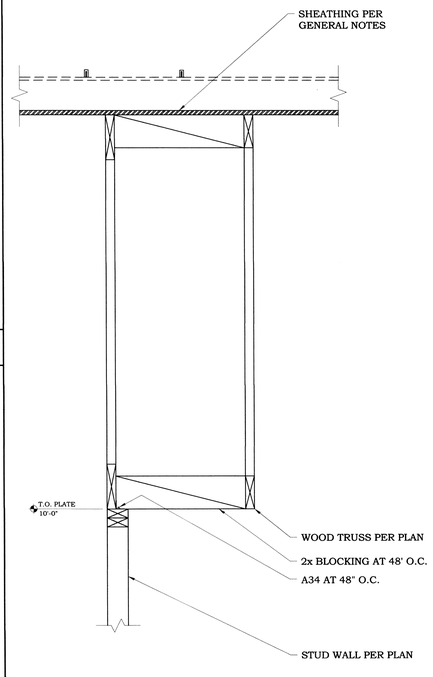
GIRDER TRUSS 1 | 13



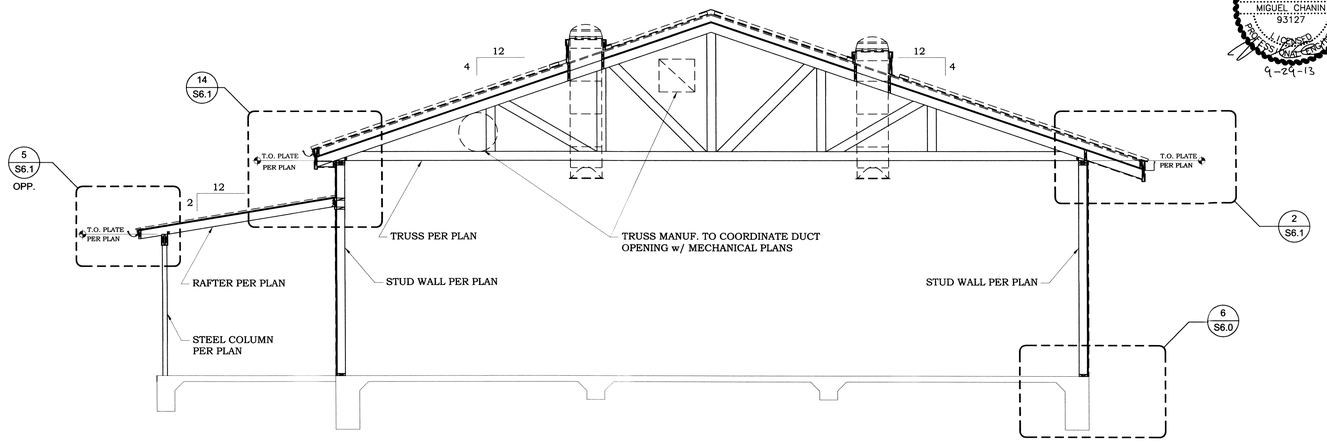
GIRDER TRUSS 2 | 14

NOT USED | 19

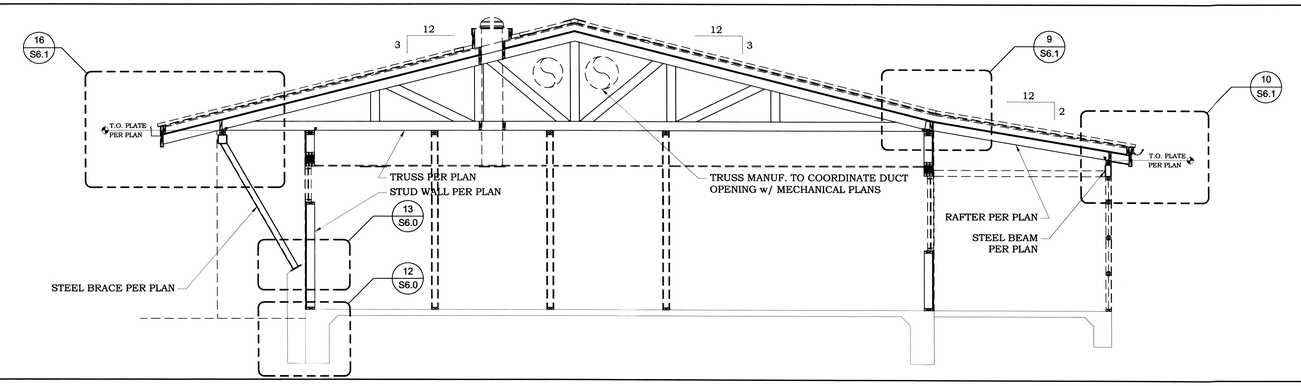
NOT USED | 20



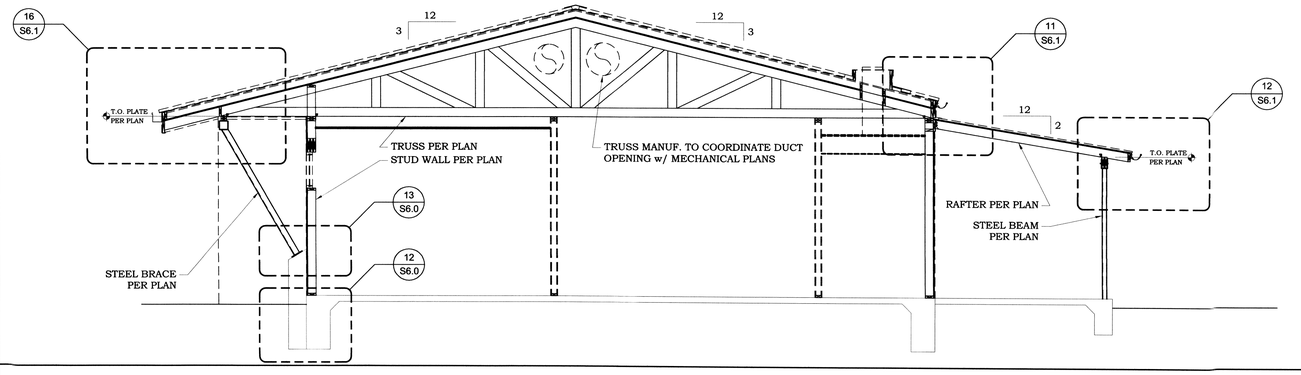
WOOD TRUSSES TO INTERIOR SHEAR WALL | 16



BUILDING SECTION 1 | 2



BUILDING SECTION 2 | 3



BUILDING SECTION 3 | 4

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STATE OF TEXAS
MIGUEL CHANIN
93127
LICENSED
PROFESSIONAL ENGINEER
9-24-13

PROJECT #: 13227
DATE: 09.29.13
DRAWN BY: lr
CHECKED BY: M.C.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

Mata & Garcia ARCHITECTS LLP
architecture | project management | interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501
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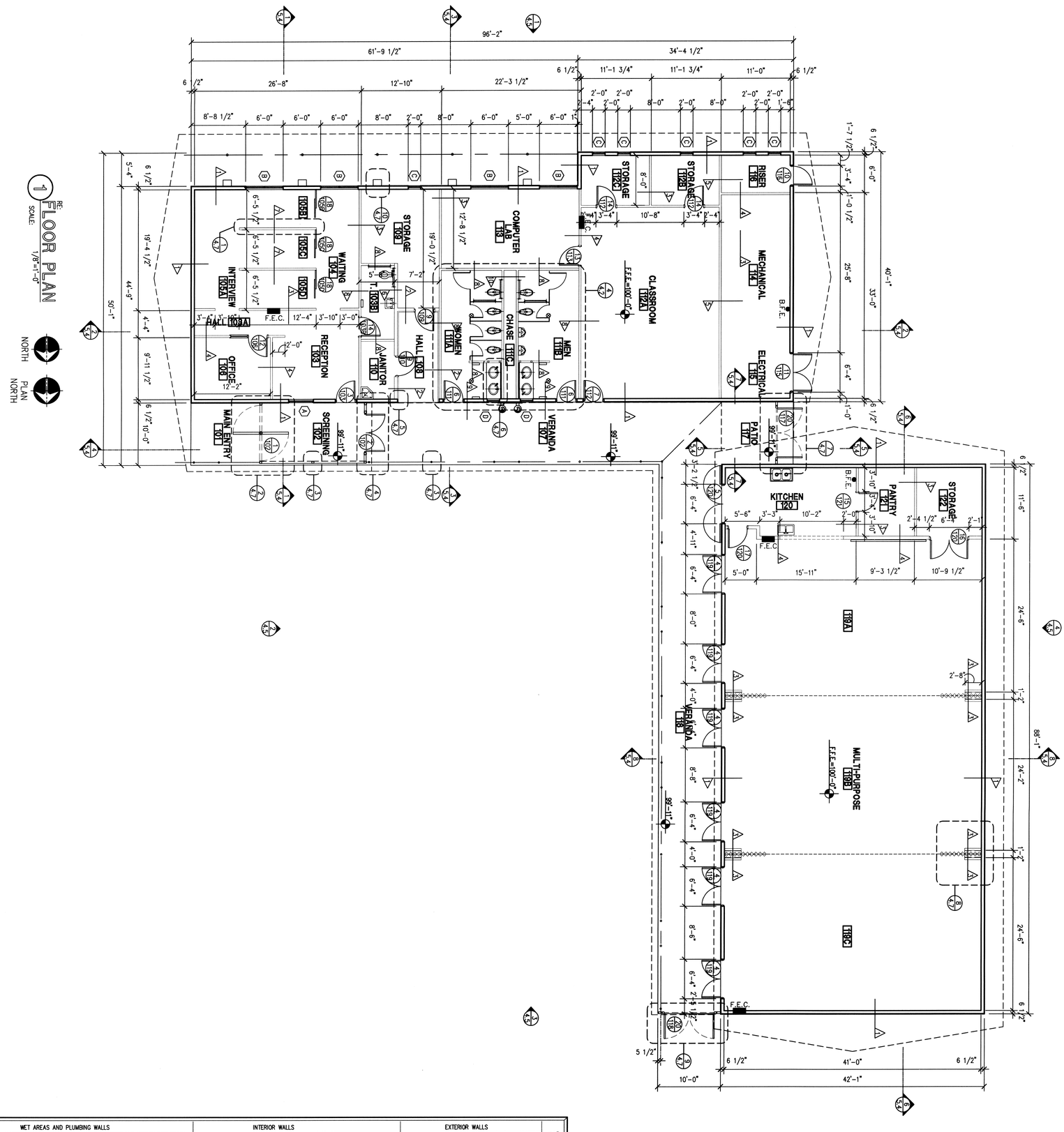
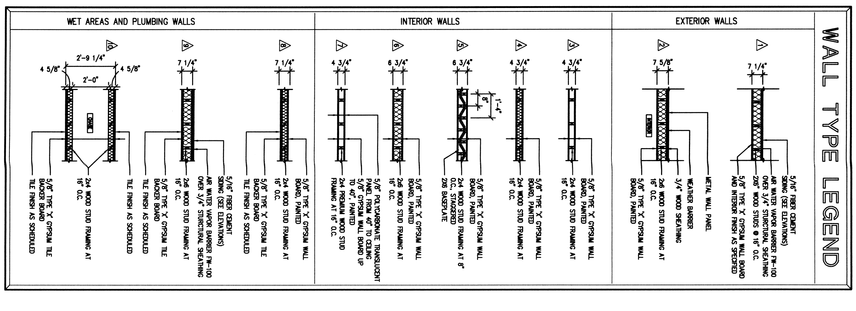
SHEET: S6.3





SHEET: 4.1

AIA

Mata & Garcia ARCHITECTS l.l.p

architecture
project management
interior design

Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
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Tel : (956) 631-1945
Fax : (956) 631-1968

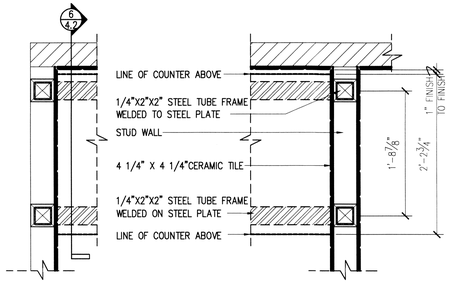
HECTOR R. GARCIA 13952
LICENSE EXPIRES: 03/31/14

SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

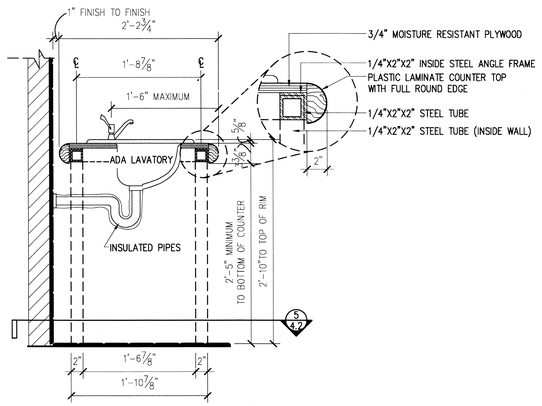
PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
1:
2:
3:
4:



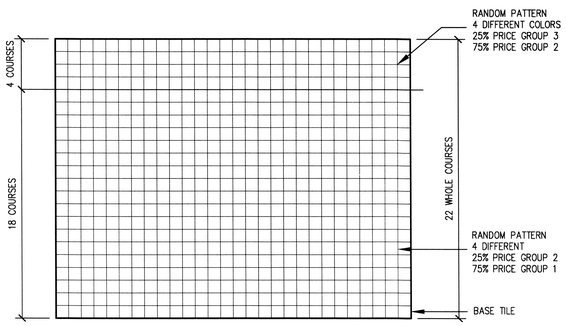
* GENERAL CONTRACTOR WILL NEED TO ORDER STEEL TUBE FRAMING EARLY IN THE CONSTRUCTION TIMELINE IN ORDER TO INSTALL FRAME AS STUDS ARE BEING LAID

5 LAVATORY PLAN
SCALE: 1" = 1'-0"



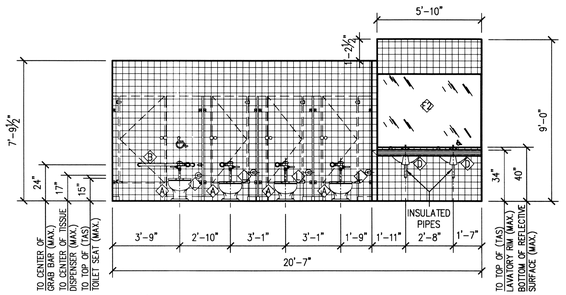
RE: 5/4.2, 4/4.2

6 LAVATORY SECTION
SCALE: 1" = 1'-0"



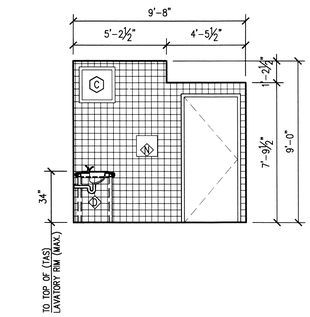
RE: 1/4.2, 2/4.2, 3/4.2

7 TYPICAL WALL TILE PATTERN
SCALE: 1/2"=1'-0"



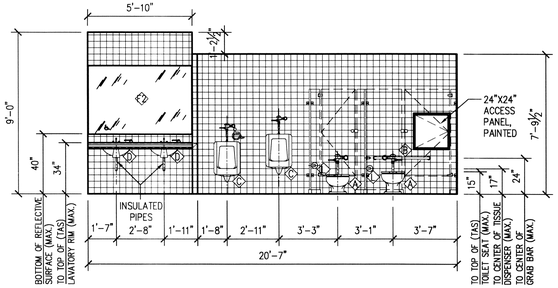
RE: 4/4.2

1 WOMEN 111A RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"



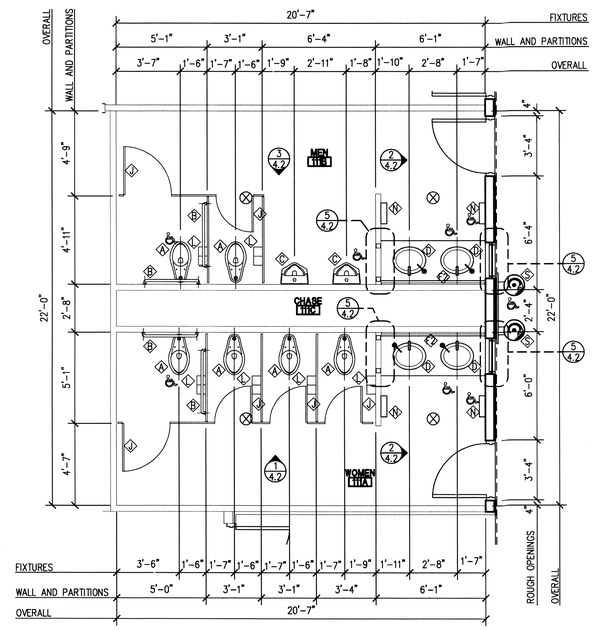
RE: 4/4.2

2 MEN 111B AND WOMEN 111A RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"



RE: 4/4.2

3 MEN 111B RESTROOM ELEVATIONS
SCALE: 1/4"=1'-0"

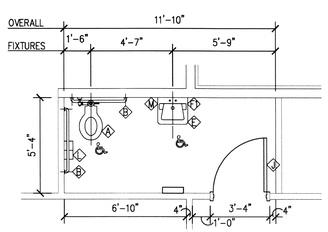


RE: 1/4.1

4 ENLARGED FLOOR PLAN AT 111A, 111B AND 111C
SCALE: 1/4"=1'-0"

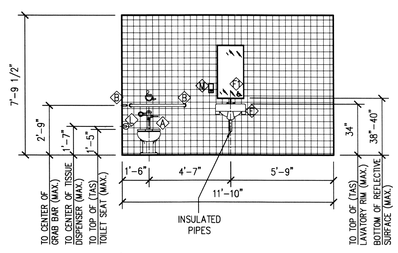
NORTH

PLAN NORTH



RE: 1/4.1

8 ENLARGED FLOOR PLAN AT 103B
SCALE: 1/4"=1'-0"



RE: 1/4.1

9 RR 103B RESTROOM ELEVATION
SCALE: 1/4"=1'-0"

TAS FIXTURE LEGEND AND MOUNTING HEIGHTS FOR AGES 13 THRU ADULT

(A) WATER CLOSET	TOP OF SEAT = 17" MIN., 19" MAX. FROM F.F. FLUSH CONTROLS NOT TO EXCEED 46" CENTER LINE = 16" MIN., 18" MAX. FROM FINISHED ADJACENT WALL
(B) HORIZONTAL TOILET GRAB BAR	33"MIN., 36" MAX. FROM F.F. TO TOP OF OF GRIPPING SURFACE
(C) URINAL	17" MAX. FROM F.F. TO RIM OF BASIN FLUSH CONTROLS NOT TO EXCEED 46"
(D) COUNTER MOUNTED LAVATORY W/ UNDER THE COUNTER SOAP RÉSEVOIR	34" MAX. FROM F.F. TO TOP OF RIM WITH A MINIMUM KNEE CLEARANCE OF 27" 20" MAX. FROM FRONT EDGE OF COUNTER TO FAUCET
(E) WALL-HUNG LAVATORY	34" MAX. FROM F.F. TO TOP OF RIM WITH A MINIMUM KNEE CLEARANCE OF 27" 20" MAX. FROM FRONT EDGE OF COUNTER TO FAUCET
(F) MIRROR (MOUNTED ABOVE LAVATORY)	40" MAX. FROM F.F. TO BOTTOM OF REFLECTIVE SURFACE (NOT MIRROR FRAME)
(L) MULTI-ROLL TOILET TISSUE DISPENSER	17" MIN., 24" MAX FROM F.F. TO OUTLET OF DISPENSER 7"MIN., 9"MAX FROM CENTER LINE TO FRONT OF BOWL
(M) WALL MOUNTED SOAP DISPENSER	48" MAX. FROM F.F. TO HIGHEST OPERABLE PART OF UNIT
(N) WALL-MOUNTED HAND DRYER	48" MAX. FROM F.F. TO HIGHEST OPERABLE PART OF UNIT
(S) ELECTRIC DRINKING FOUNTAIN	36" MAX. FROM F.F. TO BUBBLER JET A MINIMUM KNEE CLEARANCE OF 27"
(J) TOWEL HOOKS	60" MAX. FROM F.F.

STANDARD FIXTURE LEGEND AND MOUNTING HEIGHTS FOR GRADES: 9 TO 12 & ADULTS

(A) WATER CLOSET	15" MAX. FROM F.F. TO TOP OF SEAT
(B)	
(C) URINAL	22" MAX. FROM F.F. TO RIM OF BASIN
(D) COUNTER MOUNTED LAVATORY W/ UNDER THE COUNTER SOAP RÉSEVOIR	34" TO TOP OF RIM
(F2) MIRROR – CUSTOM SIZE (MOUNTED ABOVE LAVATORY)	36" MAX. FROM F.F. TO BOTTOM OF REFLECTIVE SURFACE – 59"W x 49"H
(L) MULTI-ROLL TOILET TISSUE DISPENSER	19" FROM F.F. TO CENTER OF DISPENSER
(N) WALL-MOUNTED HAND DRYER	44" MAX. FROM F.F. TO BOTTOM OF RECESSED UNIT
(S) ELECTRIC DRINKING FOUNTAIN	40" MAX. FROM F.F. TO BUBBLER JET
(J) TOWEL HOOKS	60" MAX. FROM F.F.

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER
PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

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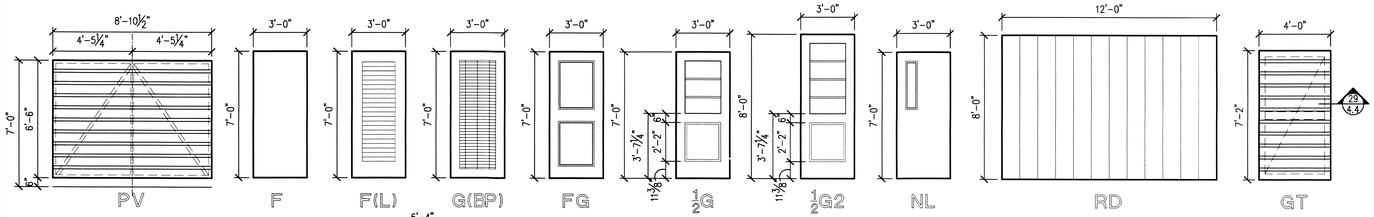
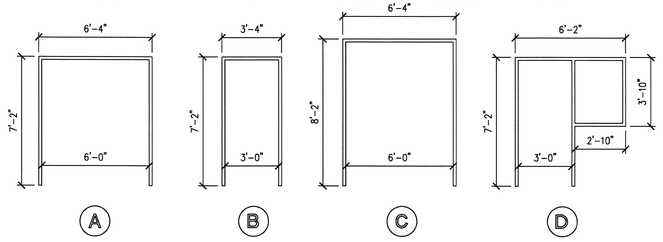
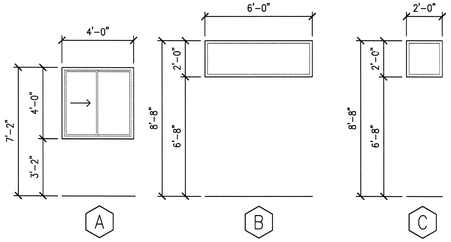
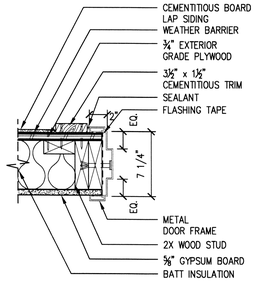
SHEET: 4.2

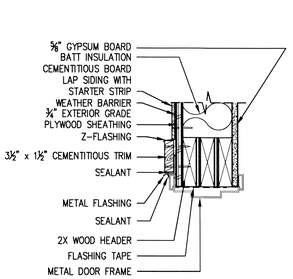




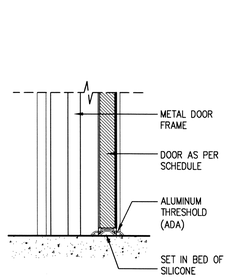




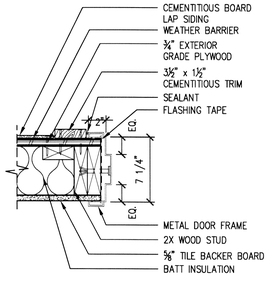
1 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT EXTERIOR WALL



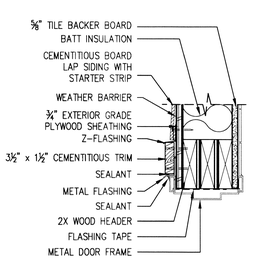
2 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT EXTERIOR WALL



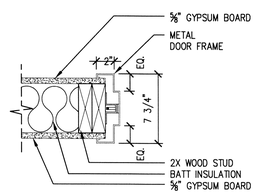
3 THRESHOLD
SCALE: 1-1/2"= 1'-0"



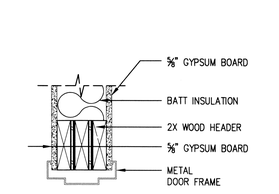
4 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT EXTERIOR WALL



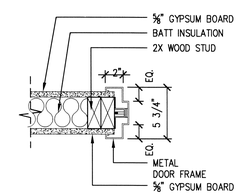
5 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT EXTERIOR WALL



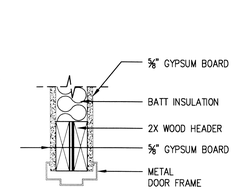
6 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



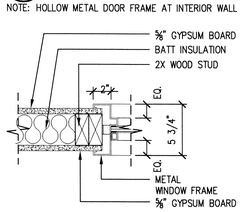
7 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



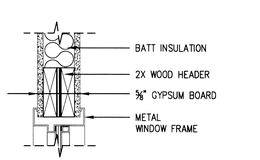
8 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



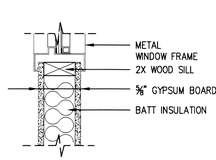
9 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"
NOTE: HOLLOW METAL DOOR FRAME AT INTERIOR WALL



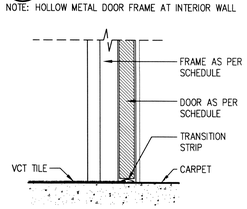
10 JAMB DETAIL
SCALE: 1-1/2"= 1'-0"



11 HEAD DETAIL
SCALE: 1-1/2"= 1'-0"



12 SILL DETAIL
SCALE: 1-1/2"= 1'-0"



13 BASE DETAIL
SCALE: 1-1/2"= 1'-0"

ROOM FINISH SCHEDULE

No.	DESCRIPTION	BASE	FLOOR	WALLS				CEILING	HEIGHT	REMARKS
				NORTH	EAST	SOUTH	WEST			
BUILDING 'A'										
101	MAIN ENTRY	--	--	--	--	W-4	--	C-5	VARIES	
102	SCREENING	--	F-5	--	--	W-4	--	C-5	VARIES	
103	RECEPTION	B-1	F-5	W-1	W-1	W-1	W-1	C-1	8'-0"	
103B	STAFF RR	B-2	F-4	W-2	W-2	W-2	W-2	C-4	7'-9-1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
104	WAITING	B-1	F-5	W-1	W-1/W-3	W-1	W-1	C-1	8'-8"	
105A	INTERVIEW	B-1	F-5	W-1	W-1	W-1	W-1/W-3	C-1	8'-8"	
105B	INTERVIEW	B-1	F-5	W-1/W-3	--	W-1	--	C-1	8'-8"	
105C	INTERVIEW	B-1	F-5	W-1/W-3	--	W-1/W-3	--	C-1	8'-8"	
105D	INTERVIEW	B-1	F-5	W-1	--	W-1/W-3	--	C-1	8'-8"	
106	OFFICE	B-1	F-5	W-1	W-1	W-1	W-1	C-1	8'-0"	
107	VERANDA	--	--	--	--	W-4	--	C-6	VARIES	
108	HALL	--	--	--	W-5	W-5	W-5	C-5	8'-0"	
109	STORAGE	B-1	F-6	W-1	W-1	W-1	W-1	C-1	8'-8"	1 HR RATED CEILING
110	JANITOR	B-1	F-6	W-1	W-1	W-1	W-1	C-1	8'-0"	1 HR RATED CEILING
111A	WOMEN	B-2	F-4	W-2	W-2	W-2	W-2	C-4	7'-9-1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
111B	MEN	B-2	F-4	W-2	W-2	W-2	W-2	C-4	7'-9-1/2"	MATCH CEILING HEIGHT TO NEXT WHOLE TILE
111C	CHASE	--	--	--	--	--	--	--	--	
112A	CLASSROOM	B-1	F-5	W-1	W-1	W-1	W-1	C-1	9'-4"	
112B	STORAGE	B-1	F-6	W-1	W-1	W-1	W-1	C-1	9'-4"	1 HR RATED CEILING
112C	STORAGE	B-1	F-6	W-1	W-1	W-1	W-1	C-1	9'-4"	1 HR RATED CEILING
113	COMPUTER LAB	B-1	F-5	W-1	W-1	W-1	W-1	C-1	9'-4"	
114	MECHANICAL	B-1	F-6	W-1	W-1	W-1	W-1	C-4	8'-0"	1 HR RATED CEILING
115	ELECTRICAL	B-1	F-6	W-1	W-1	W-1	W-1	C-4	8'-0"	1 HR RATED CEILING
116	RISER	B-1	F-6	W-1	W-1	W-1	W-1	C-4	8'-0"	
117	PATIO	--	--	W-4	--	W-4	--	C-5	8'-0"	
BUILDING 'A'										
118	VERANDA	--	--	--	--	--	W-4	C-6	VARIES	
119A	MULTI-PURPOSE	B-1	F-5	--	W-1	W-1	W-1	C-1	11'-0"	
119B	MULTI-PURPOSE	B-1	F-5	--	W-1	--	W-1	C-1	11'-0"	
119C	MULTI-PURPOSE	B-1	F-5	W-1	W-1	--	W-1	C-1	11'-0"	
120	KITCHEN	B-1	F-5	W-1	W-1	W-2	W-1	C-2	8'-8"	
121	PANTRY	B-1	F-6	W-1	W-1	W-1	W-1	C-2	8'-8"	1 HR RATED CEILING
122	STORAGE	B-1	F-6	W-1	W-1	W-1	W-1	C-1	8'-8"	1 HR RATED CEILING

MATERIAL LEGEND

BASE		FLOOR		WALLS		CEILING	
MARK	MATERIAL	MARK	MATERIAL	MARK	MATERIAL	MARK	MATERIAL
B-1	RUBBER COVE BASE	F-1	VINYL COMPOSITION TILE	W-1	GYPSUM BOARD PAINTED	C-1	SUSPENDED ACOUSTICAL TILE 1
B-2	CERAMIC TILE	F-2	ROLL VINYL	W-2	4-1/4"X4-1/4" CERAMIC TILE	C-2	SUSPENDED MOISTURE RESISTANT ACOUSTICAL TILE 2
		F-3	CARPET	W-3	POLYCARBONATE PANEL	C-3	SUSPENDED GYPSUM BOARD
		F-4	2 X 2 CERAMIC TILE	W-4	FIBERCEMENT PANEL	C-4	SUSPENDED MOISTURE RESISTANT BOARD, 1-HOUR FIRE RATED
		F-5	POLISHED CONCRETE (EXPOSED)	W-5	METAL WALL PANELS	C-5	METAL SOFFIT PANEL
		F-6	SEALED CONCRETE (EXPOSED)			C-6	EXPOSED STRUCTURE
						C-7	EXPOSED PAINTED STRUCTURE

DOOR AND FRAME SCHEDULE

DOOR							FRAME					REMARKS
DOOR MARK	WIDTH	HEIGHT	TYPE	GLASS	FACING	RATING	MATERIAL	WIDTH	HEIGHT	TYPE	RATING	
1	8'-0"	7'-2"	PV	---	CEDAR	---	GALV. TUBE STEEL	---	---	---	---	PIVOT DOOR, EXT. GATE
2	3'-0" PAIR	7'-0"	FG	WIRE MESH SCREEN	HOLLOW METAL	---	GALV. HOLLOW METAL	6'-4"	7'-2"	A	---	
3	3'-0"	7'-0"	1/2 G	LOW-E SAFETY	WOOD / VINYL	---	GALV. HOLLOW METAL	3'-4"	7'-2"	B	---	PER MARVIN DOOR AND WINDOW
4	3'-0" PAIR	8'-0"	1/2 G2	LOW-E SAFETY	WOOD / VINYL	---	GALV. HOLLOW METAL	6'-4"	8'-4"	C	---	PER MARVIN DOOR AND WINDOW
5	3'-0" PAIR	8'-0"	1/2 G2	LOW-E FROSTED	WOOD / VINYL	---	GALV. HOLLOW METAL	6'-4"	8'-4"	C	---	PER MARVIN DOOR AND WINDOW
6	3'-0"	7'-0"	NL	FROSTED	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	3'-4"	7'-2"	B	---	
7	3'-0"	7'-0"	NL	LOW-E SAFETY	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	3'-4"	7'-2"	B	---	
8	3'-0" PAIR	7'-0"	F	---	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	6'-4"	7'-2"	A	---	
9	3'-0"	7'-0"	F	---	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	3'-4"	7'-2"	B	---	
10	3'-0"	7'-0"	F(L)	---	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	3'-4"	7'-2"	B	---	
11	3'-0" PAIR	7'-0"	F(L)	---	GALV. HOLLOW METAL	---	GALV. HOLLOW METAL	6'-4"	7'-2"	A	---	
12	3'-0"	7'-0"	NL	SAFETY	PLASTIC LAMINATE	20 MIN	HOLLOW METAL	3'-4"	7'-2"	D	20 MIN	
13	3'-0"	7'-0"	F	---	PLASTIC LAMINATE	20 MIN	HOLLOW METAL	3'-4"	7'-2"	B	20 MIN	
14	3'-0"	7'-0"	F	---	PLASTIC LAMINATE	20 MIN	HOLLOW METAL	3'-4"	7'-2"	B	20 MIN	
15	3'-0"	7'-0"	F	---	PLASTIC LAMINATE	45 MIN	HOLLOW METAL	3'-4"	7'-2"	B	45 MIN	
16	3'-0" PAIR	7'-0"	F	---	PLASTIC LAMINATE	45 MIN	HOLLOW METAL	6'-4"	7'-2"	A	45 MIN	
17	3'-0"	7'-0"	NL	SAFETY	PLASTIC LAMINATE	20 MIN	HOLLOW METAL	3'-4"	7'-2"	B	45 MIN	PUSH/PULL HARDWARE
18	3'-0" PAIR	7'-0"	G(BP)	POLYCABONATE	HD WOOD VENEER	---	WOOD				---	SLIDING BYPASS
19	12'-0"	8'-0"	RD	---	HD WOOD VENEER	---	---				---	ROLLING DOOR
20	4'-0" PAIR	7'-2"	GT	---	CEDAR	---	GALV. TUBE STEEL				---	EXTERIOR GATE

PROJECT #: 201305
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CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 13482
LICENSE EXPIRES: 03/31/14

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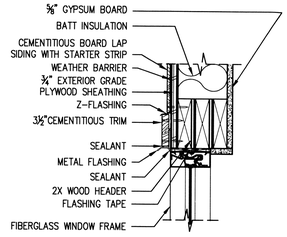
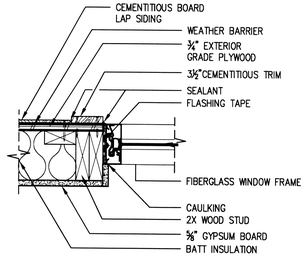
43



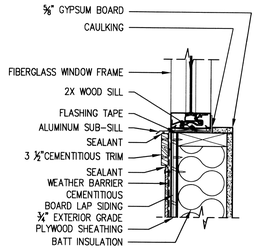
14 HEAD DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT FIBERGLASS WINDOW



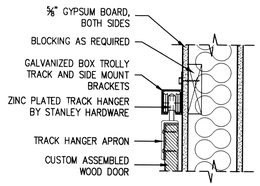
15 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT FIBERGLASS WINDOW



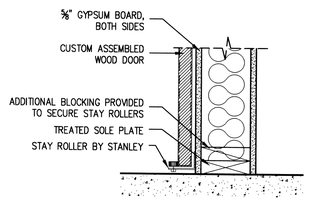
16 SILL DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: SILL DETAIL AT FIBERGLASS WINDOW



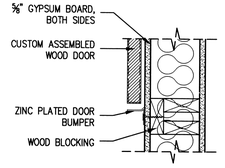
17 HEAD DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT BARN DOOR



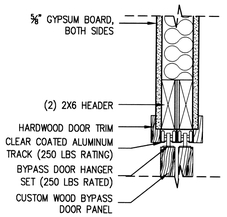
18 BASE DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: BASE DETAIL AT BARN DOOR



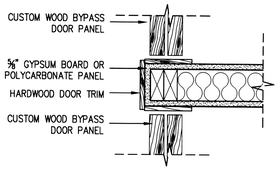
19 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT BARN DOOR



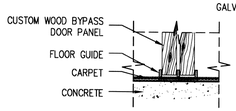
20 HEAD DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT BYPASS DOOR



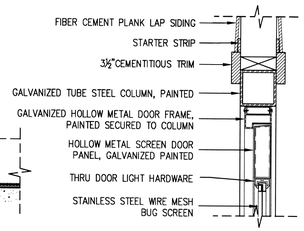
21 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT BYPASS DOOR



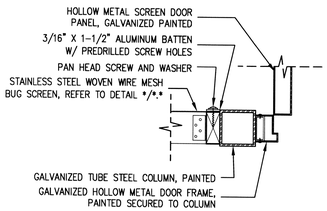
22 BASE DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: BASE DETAIL AT BYPASS DOOR



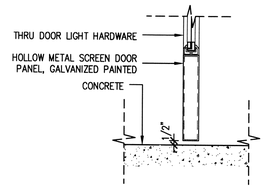
23 HEAD DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT SCREEN DOOR



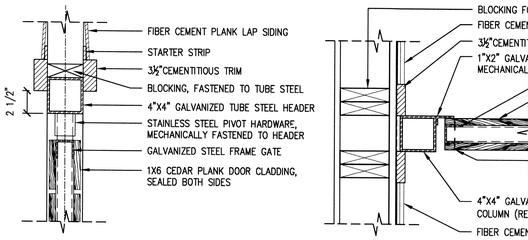
24 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT SCREEN DOOR



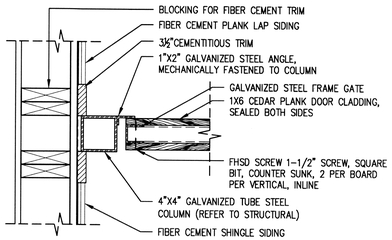
25 BASE DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: BASE DETAIL AT SCREEN DOOR



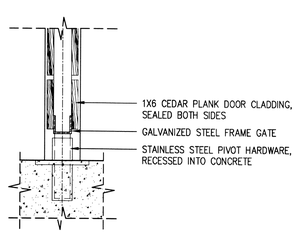
26 HEAD DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: HEAD DETAIL AT PIVOT DOOR



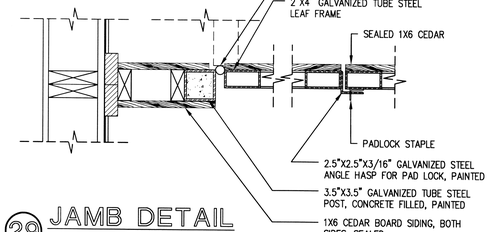
27 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: JAMB DETAIL AT PIVOT DOOR



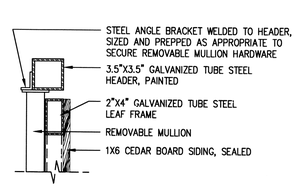
28 BASE DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: BASE DETAIL AT PIVOT DOOR



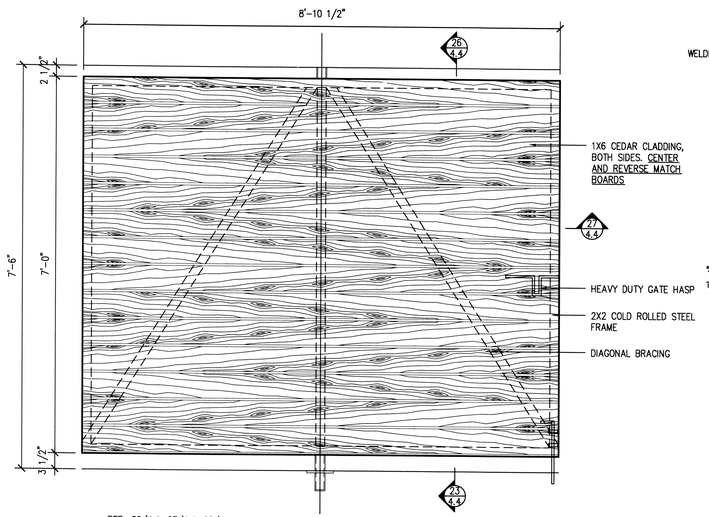
29 JAMB DETAIL

SCALE: 1-1/2"=1'-0"
NOTE: JAMB & HASP DETAIL AT GATE



30 HEAD DETAIL

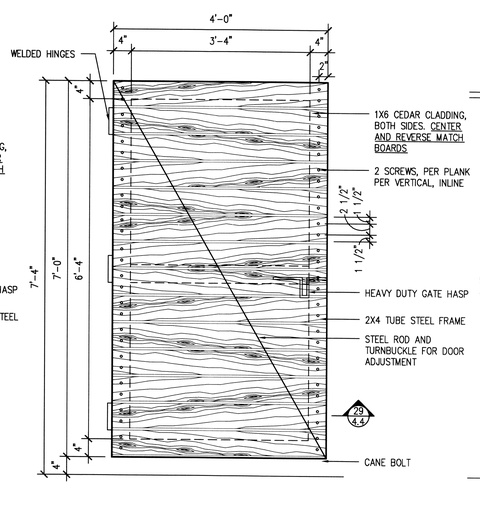
SCALE: 1-1/2"=1'-0"
NOTE: JAMB & HASP DETAIL AT GATE



REF: 26/4.4, 27/4.4, 28/4.4

30 PIVOT DOOR ELEVATION

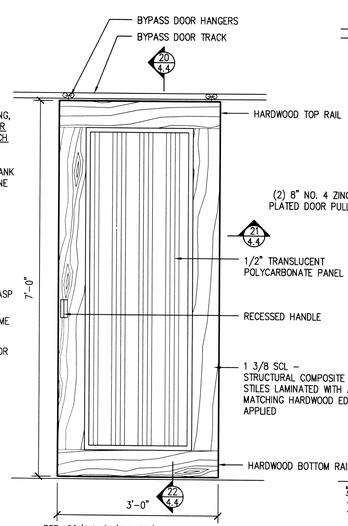
SCALE: 3/4"=1'-0"



REF: 29/4.4, 30/4.4,

31 GATE LEAF ELEVATION

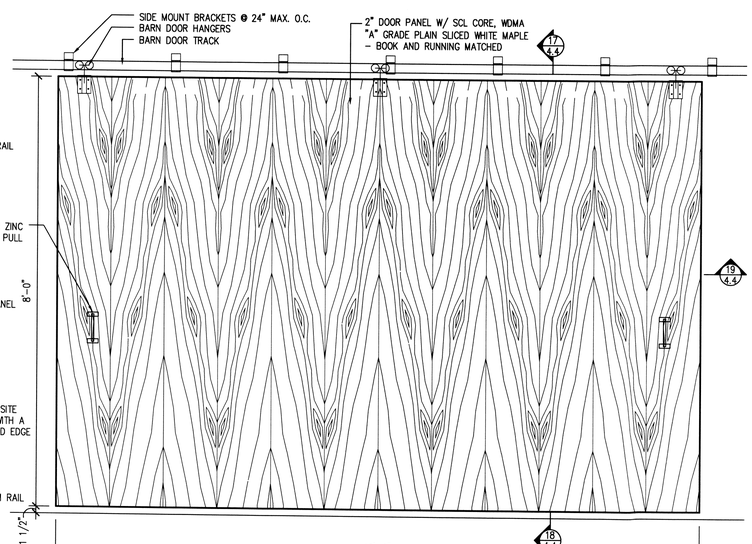
SCALE: 3/4"=1'-0"



REF: 20/4.4, 21/4.4, 22/4.4

32 BYPASS DOOR ELEV.

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



REF: 17/4.4, 18/4.4, 19/4.4

33 ROLLING BARN DOOR ELEVATION

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

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: ORC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS LLP
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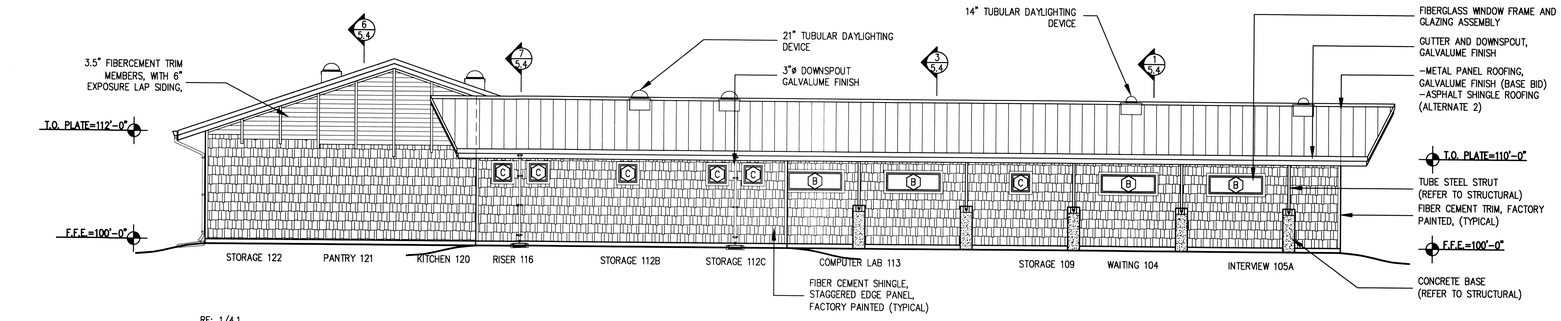
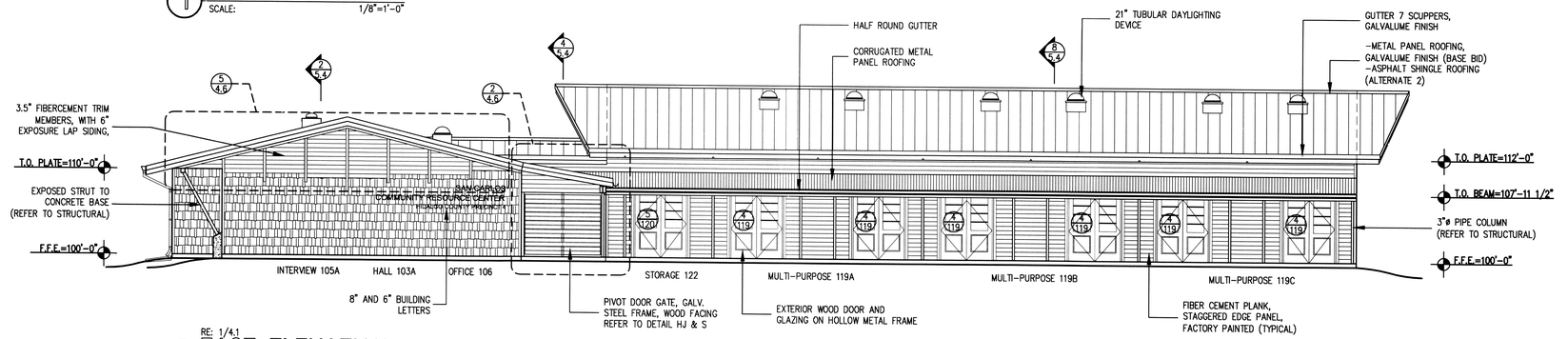
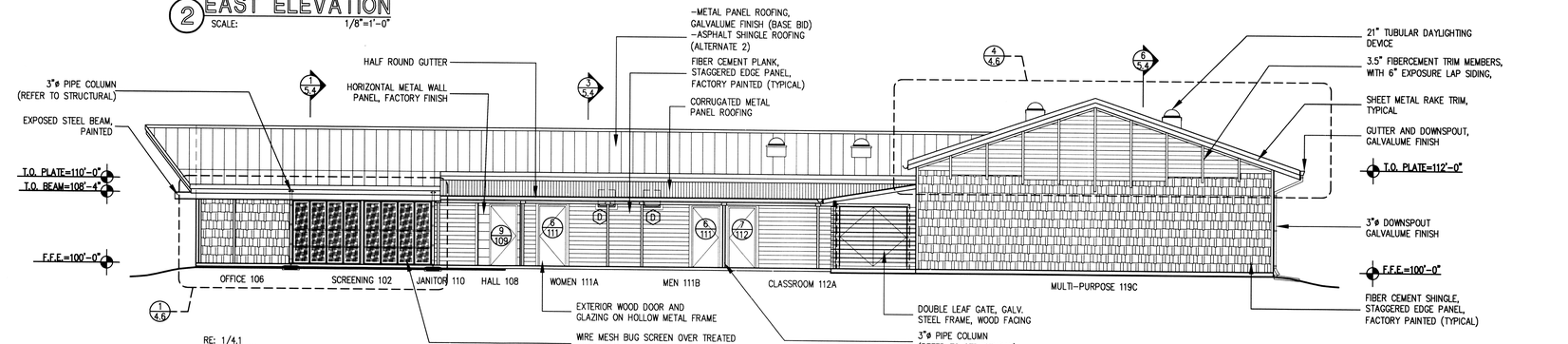
SHEET: 4.4



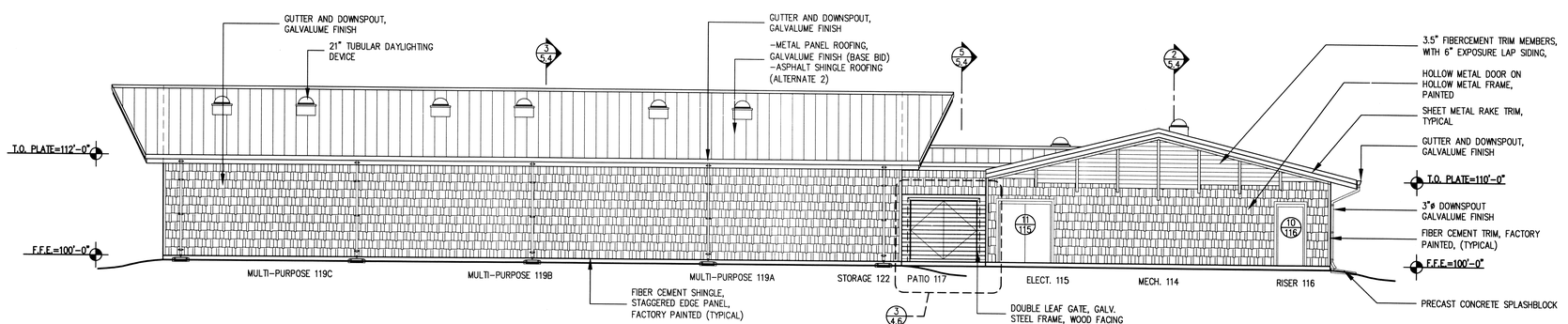
RE: 1/4.1
1 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



RE: 1/4.1
2 EAST ELEVATION
SCALE: 1/8"=1'-0"



RE: 1/4.1
3 NORTH ELEVATION
SCALE: 1/8"=1'-0"



RE: 1/4.1
4 WEST ELEVATION
SCALE: 1/8"=1'-0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 13047
LICENSE EXPIRES: 03/31/14

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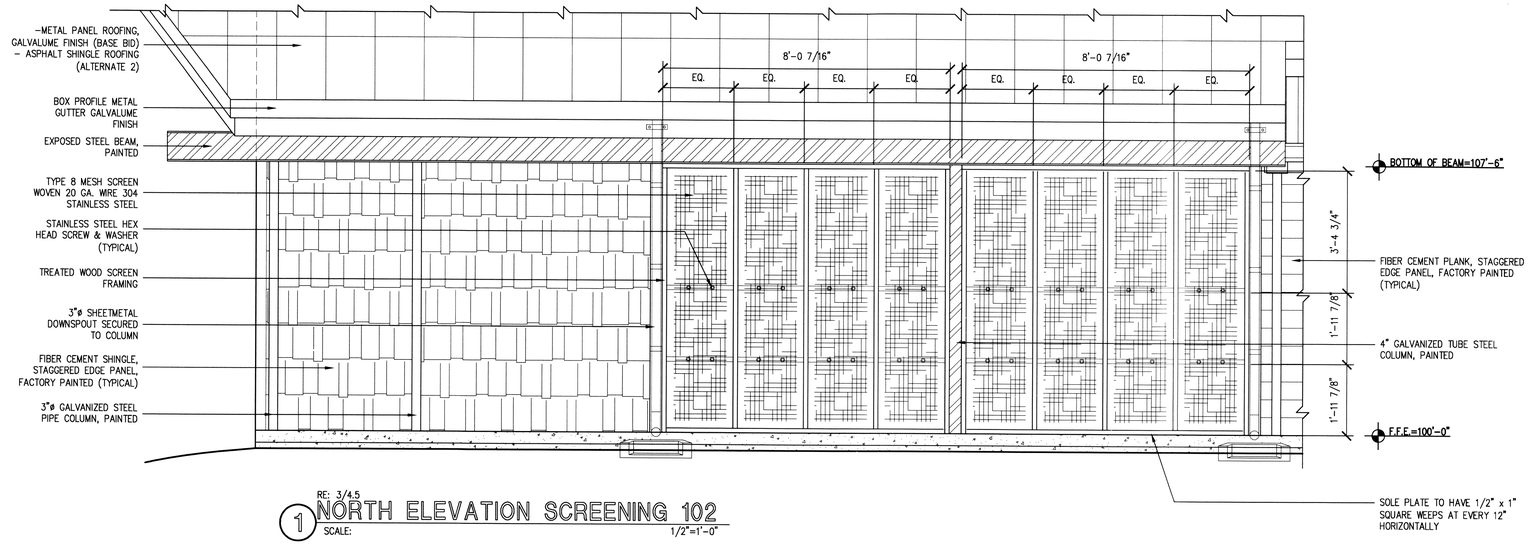
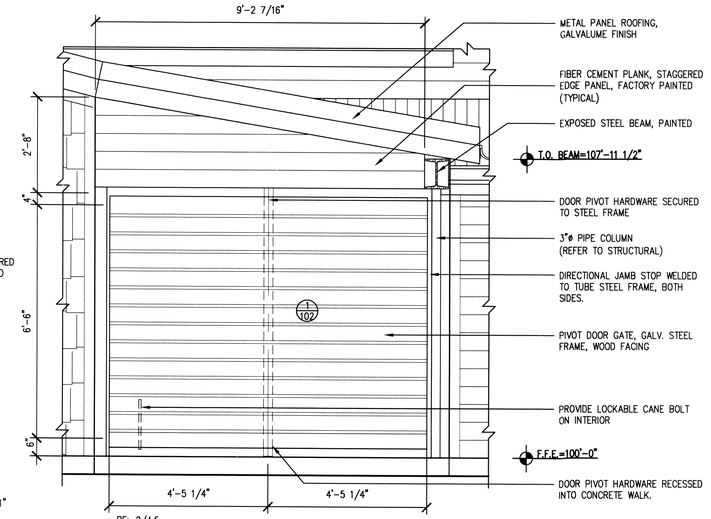
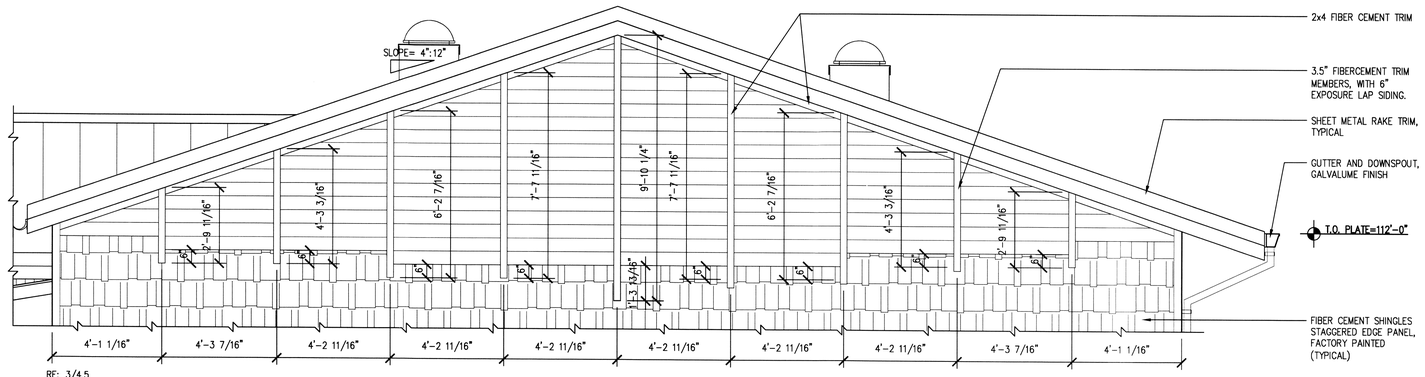
SHEET: 4.5



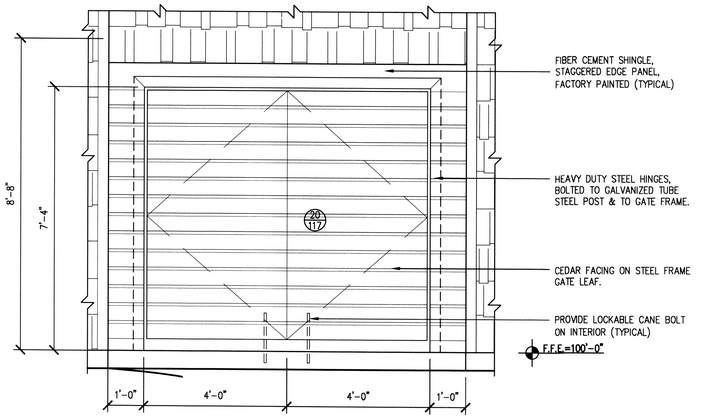
RE: 3/4.5
1 NORTH ELEVATION SCREENING 102
SCALE: 1/2"=1'-0"



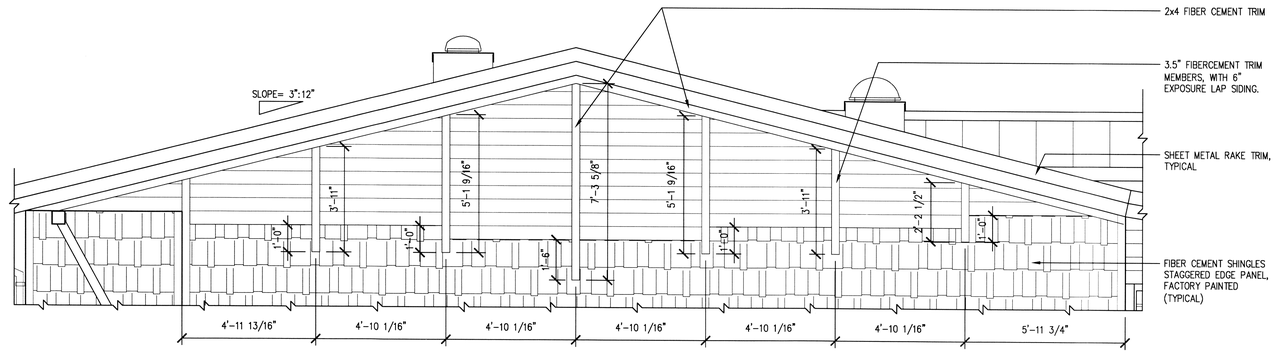
RE: 2/4.5
2 EAST ELEVATION ENTRANCE
SCALE: 1/2"=1'-0"



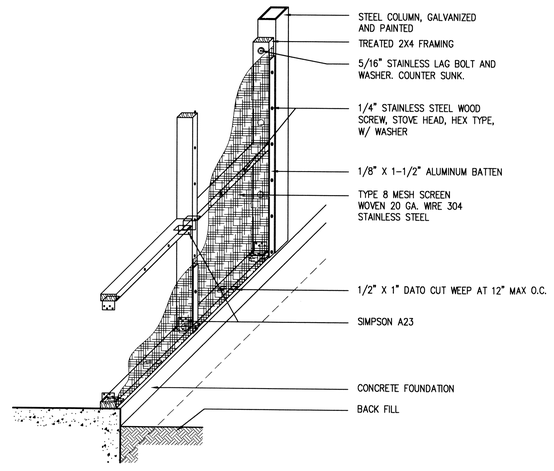
RE: 3/4.5
4 MULTI-PURPOSE 119C TOP ELEVATION
SCALE: 3/8"=1'-0"



RE: 4/4.5
3 WEST ELEVATION ENTRANCE
SCALE: 1/2"=1'-0"



RE: 2/4.5
5 MULTI-PURPOSE 119C TOP ELEVATION
SCALE: 3/8"=1'-0"



RE: 1/4.6
5 SCREEN FRAMING DETAIL
SCALE: 3/4"=1'-0"

PROJECT #: 20130S
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 1398
LICENSE EXPIRES: 03/31/14

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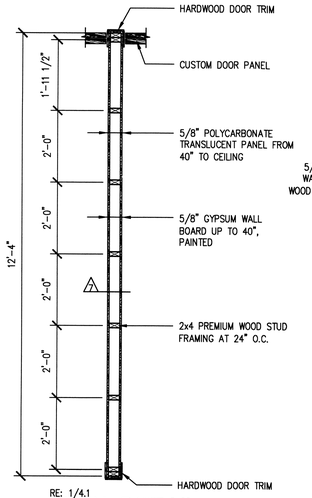
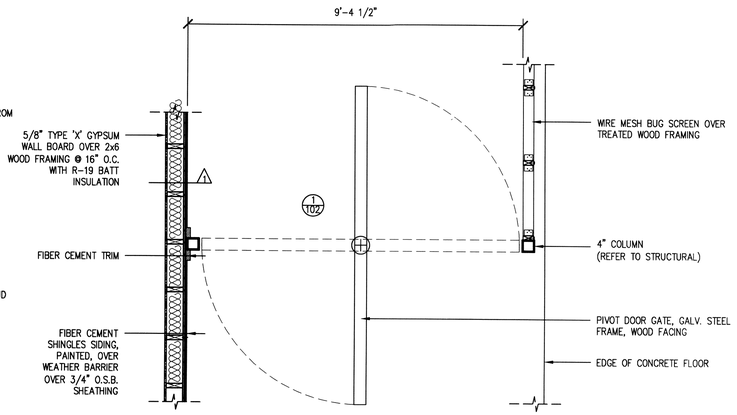
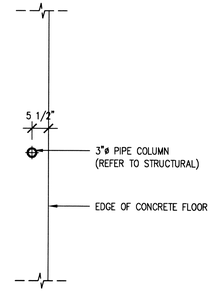
SHEET: 46



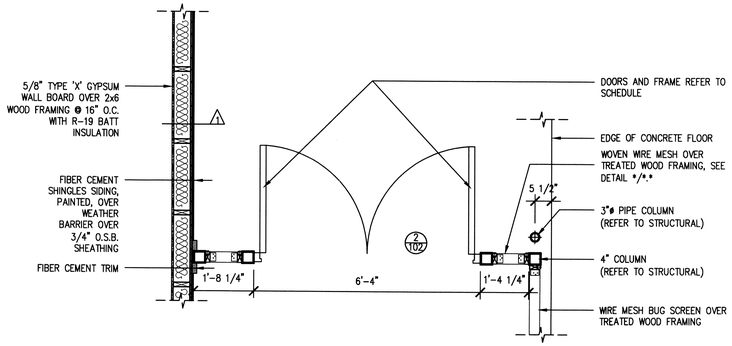
RE: 1/4.1
1 PLAN DETAIL
SCALE: 1/2"=1'-0"



RE: 1/4.1
2 PLAN DETAIL
SCALE: 1/2"=1'-0"



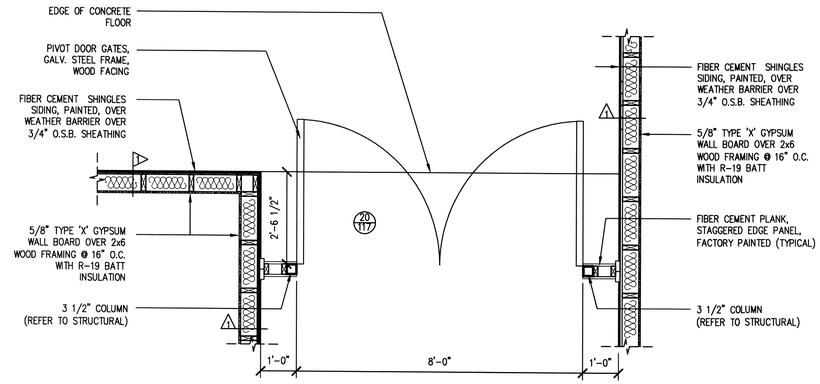
RE: 1/4.1
3 PLAN DETAIL
SCALE: 1/2"=1'-0"



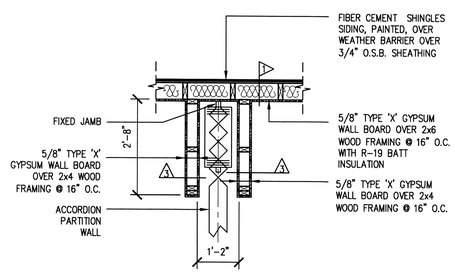
RE: 1/4.1
4 PLAN DETAIL
SCALE: 1/2"=1'-0"

RE: 1/4.1
5 PLAN DETAIL
SCALE: 1"=1'-0"

RE: 1/4.1
6 PLAN DETAIL
SCALE: 1/2"=1'-0"

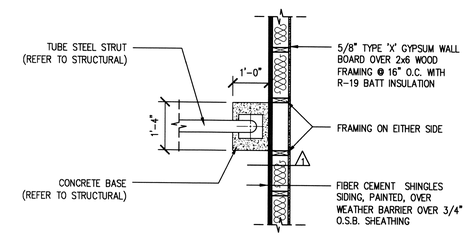


RE: 1/4.1
7 PLAN DETAIL
SCALE: 1/2"=1'-0"



RE: 1/4.1
8 PLAN DETAIL
SCALE: 1/2"=1'-0"

RE: 1/4.1
9 PLAN DETAIL
SCALE: 1/2"=1'-0"



RE: 1/4.1
10 PLAN DETAIL
SCALE: 1/2"=1'-0"

PROJECT #: 20.305
DATE: 10.11.13
DRAWN BY: ORC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13961
LICENSE EXPIRES: 03/31/14

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SHEET: 47

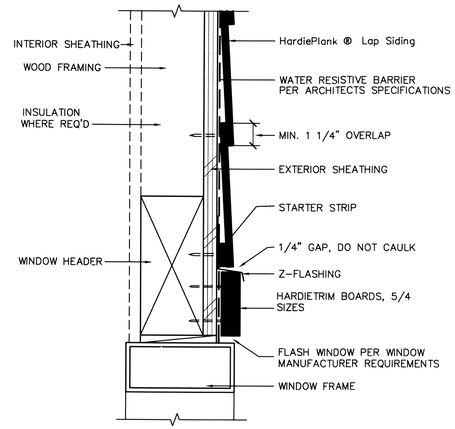
GENERAL NOTES:

1. MANUFACTURERS DETAILS ARE TO BE CONSIDERED MINIMUM REQUIREMENTS, AND ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DETAILS AND SPECIFICATIONS.

2. VARYING FIBER CEMENT PRODUCTS TO BE USED. REFER TO EXTERIOR ELEVATIONS AND SECTIONS FOR PRODUCT TYPES AND LOCATIONS

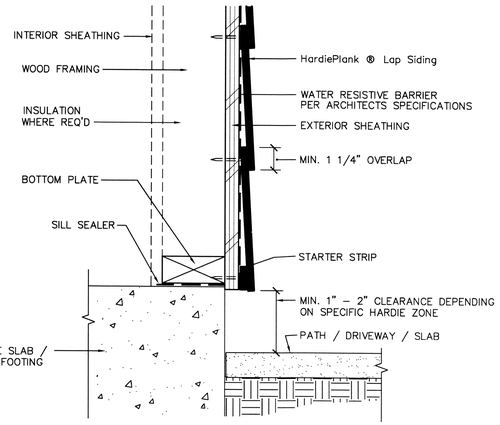
3. FIBER CEMENT TRIM SHALL VARY BASED ON WHICH CLADDING PRODUCT IT IS USED IN CONJUNCTION WITH. TRIM WHICH IS USED WITH FIBER CEMENT SHINGLE SIDING SHALL BE SEPARATE COLOR TO BE SELCETED BY ARCHITECT 5/4 (1" THICK). TRIM WHICH IS USED WITH FIBER CEMENT PLANK SIDING SHALL BE 5/4 (1" THICK). SPECIAL CONDITIONS DO EXIST AND THE ARCHITECT WILL NEED TO BE CONSULTED ON WHICH TRIM SIZE MUST BE USED FOR SUCH CONDITIONS.

4. ALL CUTS LEAVING EXPOSED FIBER CEMENT EDGES ARE TO BE PAINTED TO MATCH ORIGINAL COLOR



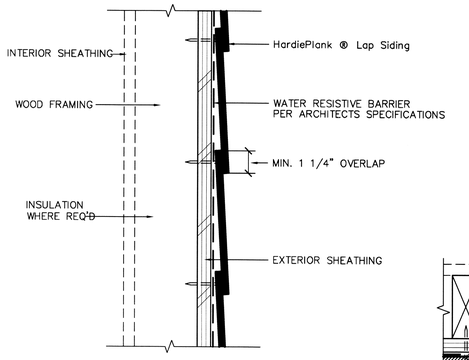
1 WINDOW / DOOR HEAD

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



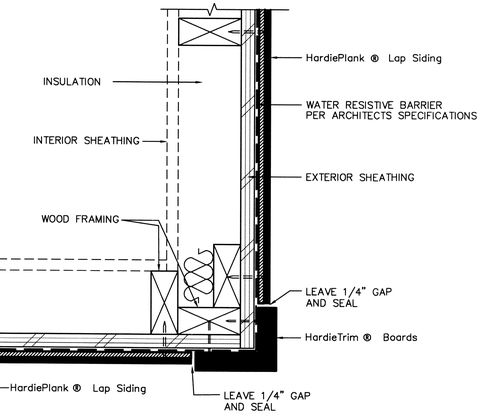
6 HARDSCAPE CLEARANCES, PORCHES, PATIOS, WALKWAYS & ROOFS

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



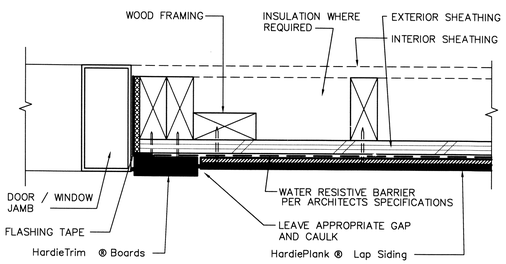
4 HORIZONTAL LAP VIEW

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



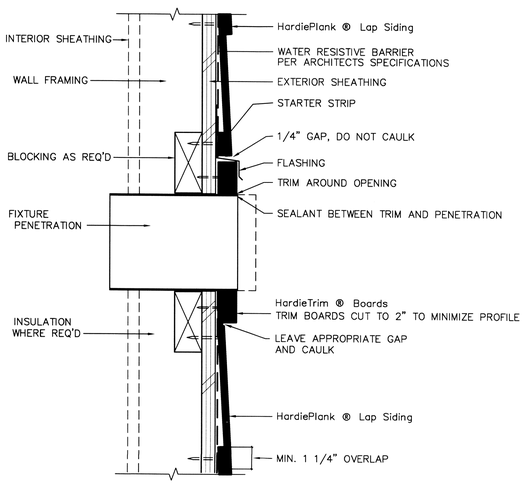
2 OUTSIDE CORNER

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



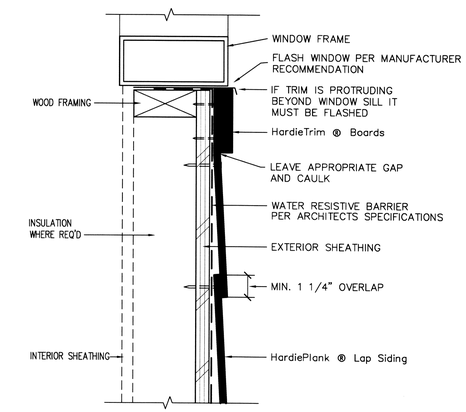
9 DOOR / WINDOW JAMB

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



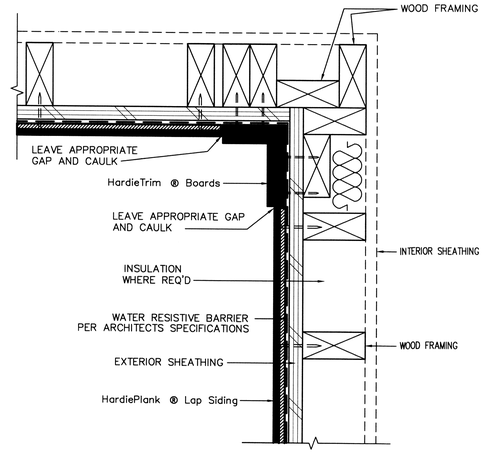
7 FIXTURE PENETRATION

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



5 WINDOW SILL

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK



3 INSIDE CORNER

SCALE: 3"=1'-0"
NOTE: TYPICAL MANUFACTURER DETAIL BASED ON HARDIE PLANK

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY:
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

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Mata & Garcia
ARCHITECTS LLP
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Fernando Mata A.I.A., Partner
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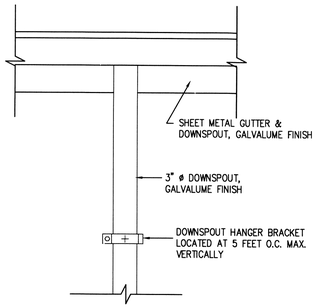
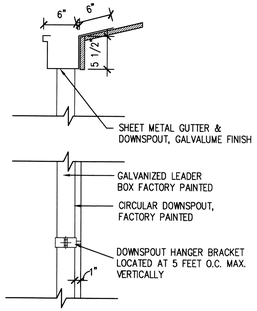
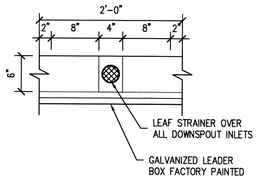
SHEET: 4.8



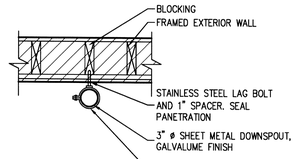
RE:
2 GUTTER & LEADER HEAD
SCALE: 1"=1'-0"



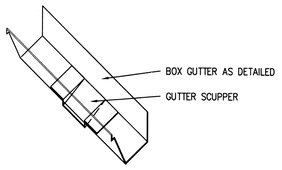
RE:
3 GUTTER & LEADER HEAD SECTION
SCALE: 1"=1'-0"



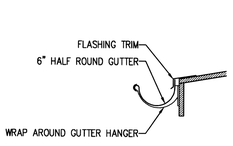
RE:
4 PLAN GUTTER INLET AT DOWNSPOUT
SCALE: 1"=1'-0"



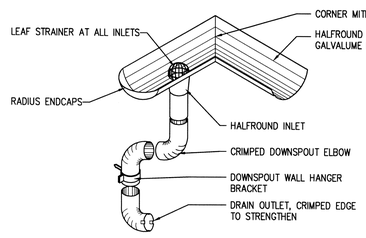
RE:
5 PLAN DOWNSPOUT
SCALE: 1"=1'-0"



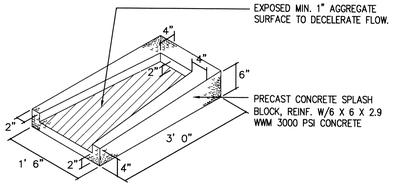
RE:
6 GUTTER SCUPPER DETAIL
SCALE: 1"=1'-0"



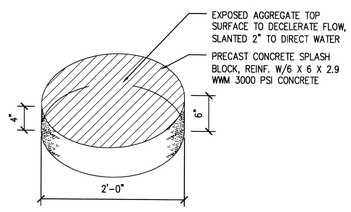
RE:
7 HALF-ROUND GUTTER DETAIL
SCALE: 1"=1'-0"



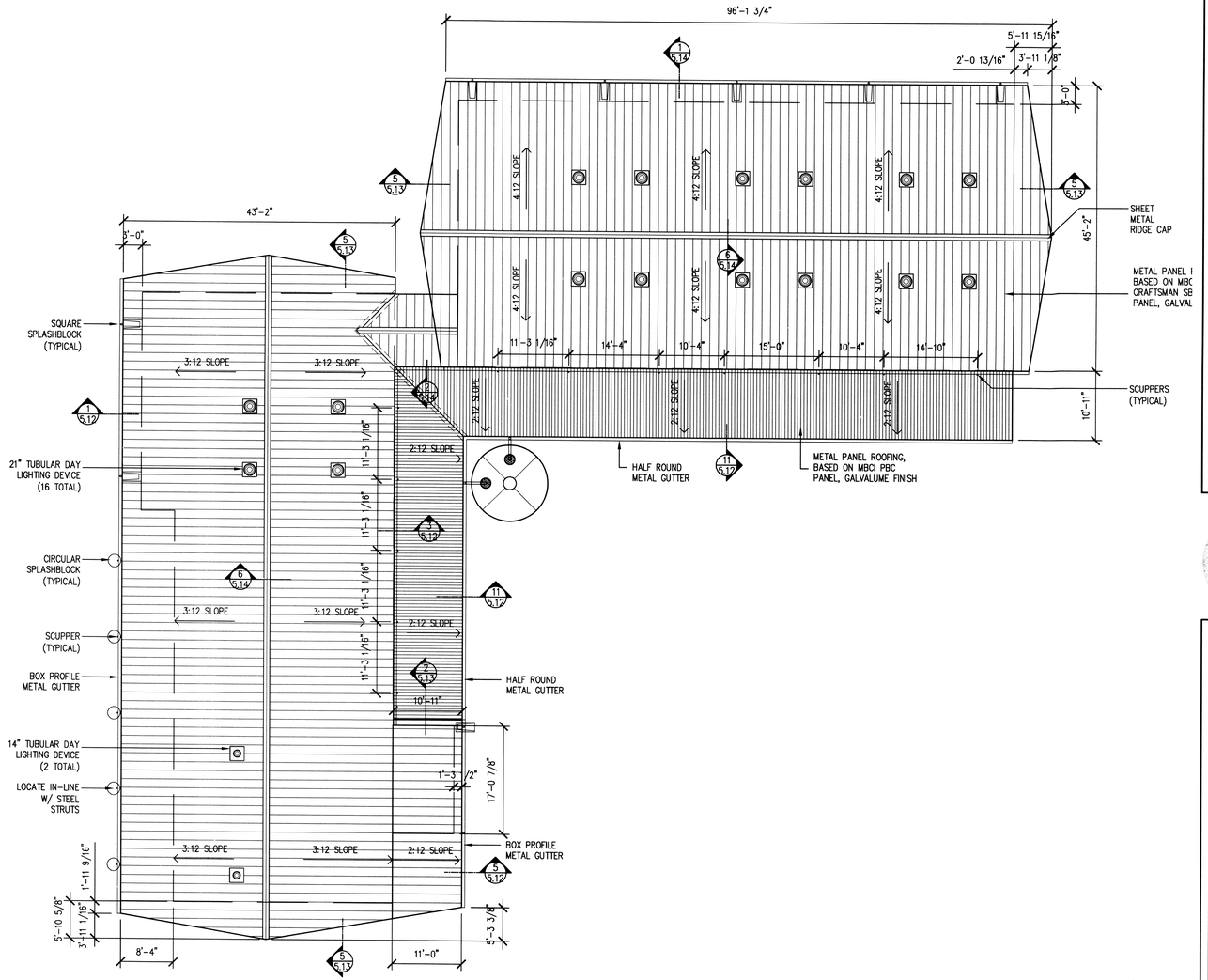
RE:
8 HALF-ROUND GUTTER DETAIL
SCALE: 1"=1'-0"



RE:
9 SQUARE PRECAST SPLASHBLOCK ISOMETRIC
SCALE: 1"=1'-0"



RE:
10 CIRCULAR PRECAST SPLASHBLOCK ISOMETRIC
SCALE: 1"=1'-0"
NOTE: BEFORE PLACEMENT, WATER FLOW MUST BE TESTED FROM SCUPPERS TO DETERMINE WATER TRAJECTORY



RE:
1 ROOFING PLAN (BASE BID)
SCALE: 3/32"=1'-0"

TOTAL ROOF AREA
10,822 SQ.FT

ACTUAL RAIN WATER COLLECTING AREA
4,873 SQ.FT

NORTH PLAN NORTH

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY:ORC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER
PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13952
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS LLp
architecture
project management
interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
194 West Ivy Avenue McAllen, Texas 78501
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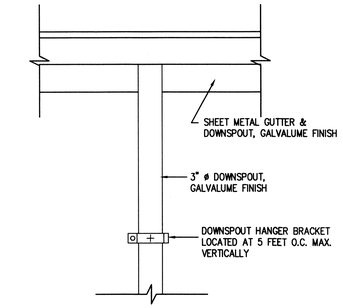
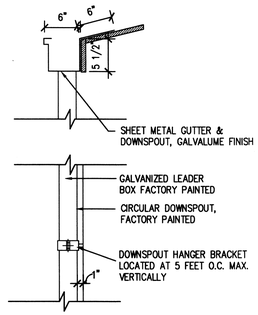
Fax : (956) 631-1988

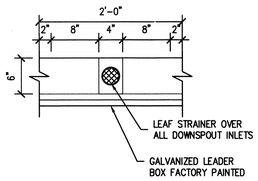
SHEET:
5.1



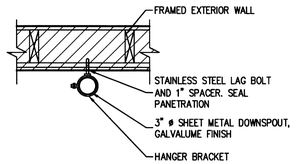
RE:
2 GUTTER & LEADER HEAD
SCALE: 1"=1'-0"



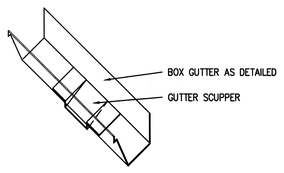
RE:
3 GUTTER & LEADER HEAD SECTION
SCALE: 1"=1'-0"



RE:
4 PLAN GUTTER INLET AT DOWNSPOUT
SCALE: 1"=1'-0"

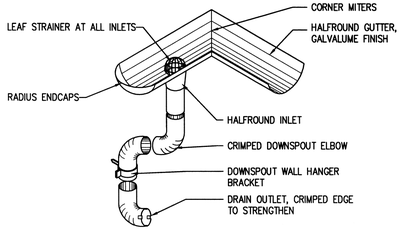


RE:
5 PLAN DOWNSPOUT
SCALE: 1"=1'-0"

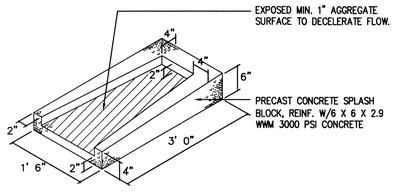


RE:
6 GUTTER SCUPPER DETAIL
SCALE: 1"=1'-0"

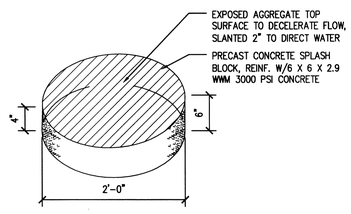
RE:
7 HALF-ROUND GUTTER DETAIL
SCALE: 1"=1'-0"



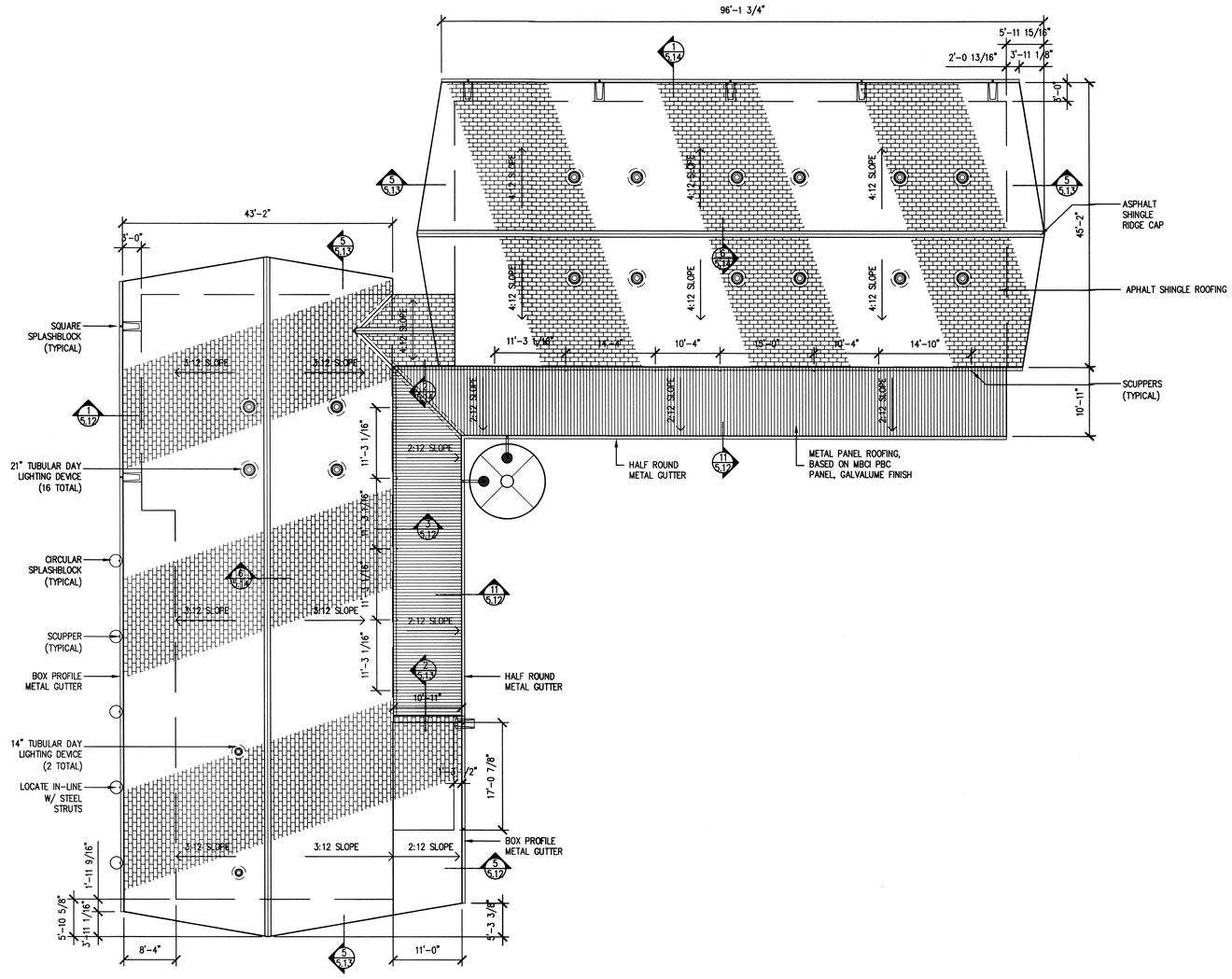
RE:
8 HALF-ROUND GUTTER DETAIL
SCALE: 1"=1'-0"



RE:
9 SQUARE PRECAST SPLASHBLOCK ISOMETRIC
SCALE: 1"=1'-0"



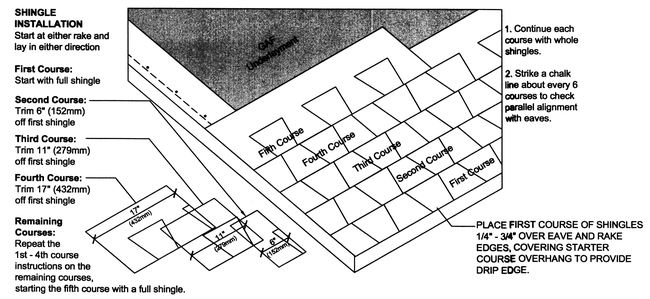
RE:
10 CIRCULAR PRECAST SPLASHBLOCK ISOMETRIC
SCALE: 1"=1'-0"
NOTE: BEFORE PLACEMENT, WATER FLOW MUST BE TESTED FROM SCUPPERS TO DETERMINE WATER TRAJECTORY



RE:
1 ROOFING PLAN (ALTERNATE 2)
SCALE: 3/32"=1'-0"
NORTH PLAN NORTH

TOTAL ROOF AREA
10,822 SQ.FT

ACTUAL RAIN WATER COLLECTING AREA
4,873 SQ.FT



RE:
11 TYPICAL SHINGLE ROOFING INSTALLATION
SCALE: N.T.S.
DR# 604

PROJECT #: 20130
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER
PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

REGISTERED ARCHITECT HECTOR RENE GARCIA 23962 STATE OF TEXAS
HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS LLP
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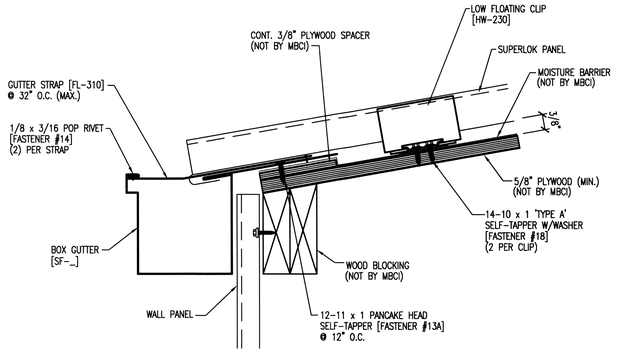
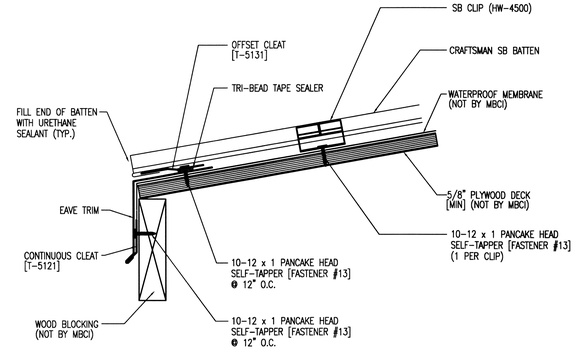
SHEET:
5.1
ALT. 2



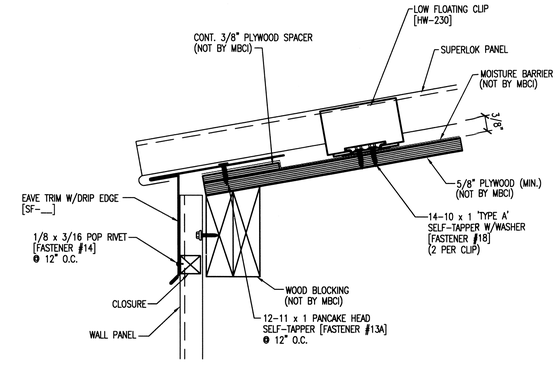
RE: 1/5.1
1 EAVE & GUTTER
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



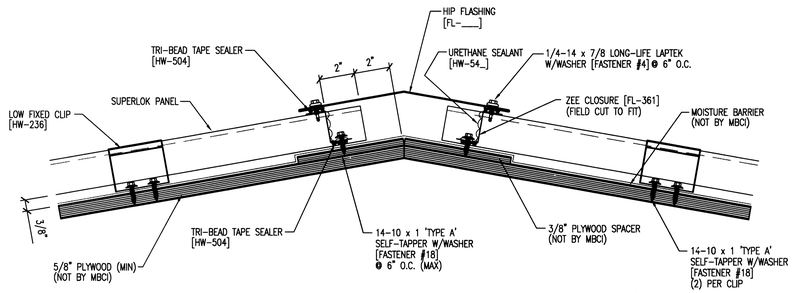
RE: 1/5.1
2 EAVE & FASCIA TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



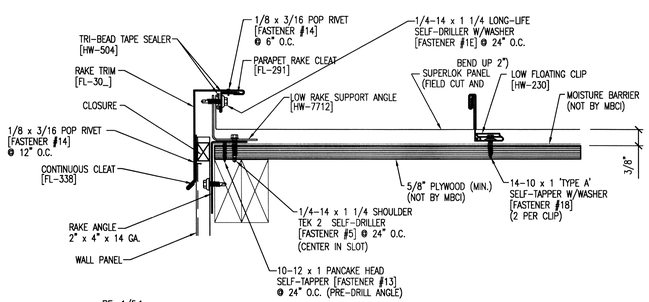
RE: 1/5.1
3 EAVE & FASCIA TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



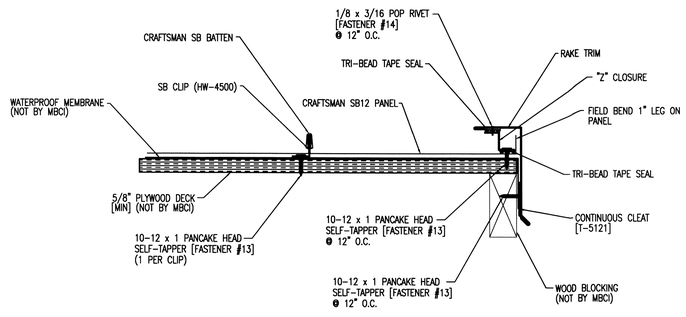
RE: 1/5.1
4 ROOF RIDGE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



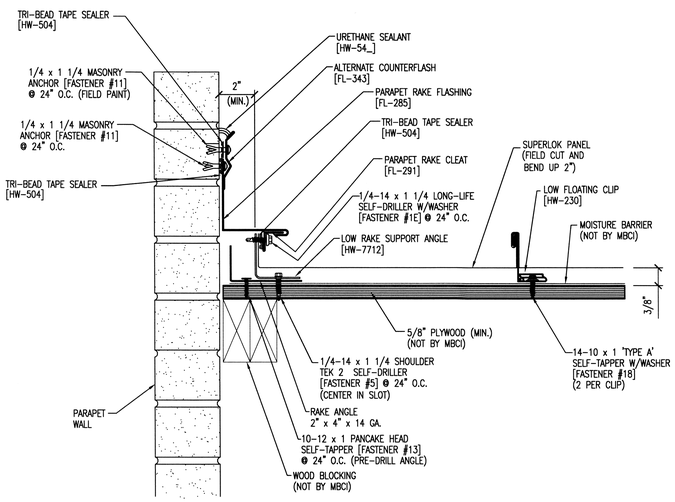
RE: 1/5.1
5 RAKE TRIM ON MODULE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



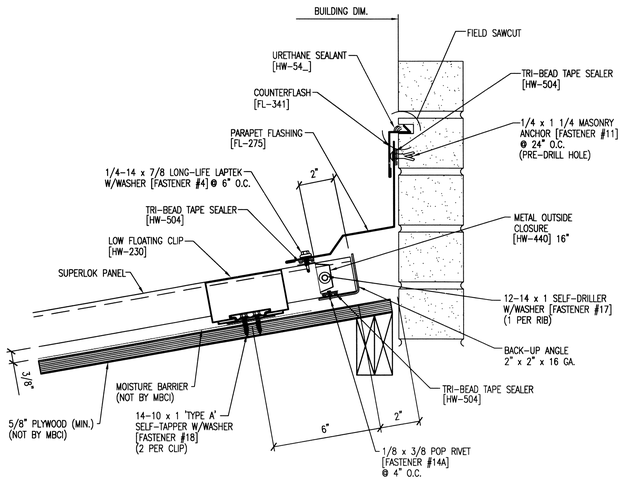
RE: 1/5.1
6 RAKE TRIM OFF MODULE
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



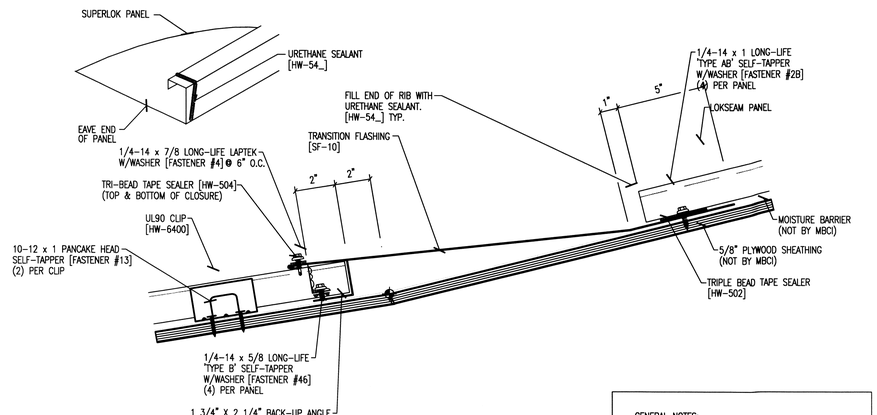
RE: 1/5.1
7 RAKE TO WALL FLASHING & TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1
8 HIGH EAVE TO WALL FLASHING & TRIM
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE: 1/5.1
9 SLOPE TRANSITION DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI SUPERLOK, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

GENERAL NOTES:

1. THIS SHEET IS DEDICATED EXCLUSIVELY TO SHEET METAL ROOFING MANUFACTURER'S DETAILS ONLY. ACTUAL TERMINATION CONDITIONS VARY DEPENDING ON ARCHITECTURAL REQUIREMENTS.

2. ALL PLANS SECTIONS AND DETAILS MUST BE REFERENCED BEFORE BIDDING, AND ALL TRADES SHOULD BE COORDINATED.

3. ALL FIELD CONDITIONS MUST BE VERIFIED PRIOR TO MANUFACTURE.

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
3:
4:

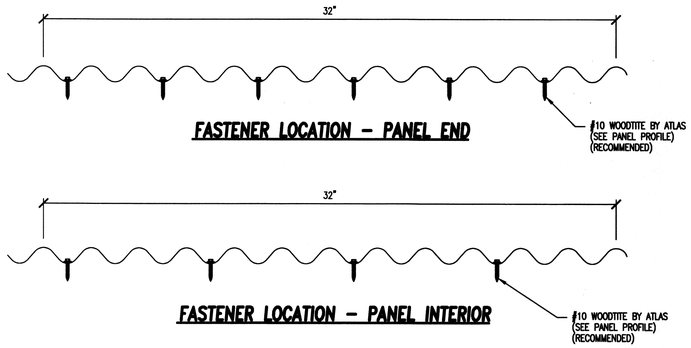
SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

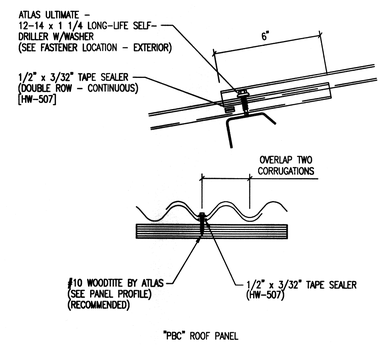
Mata & Garcia
ARCHITECTS LLP
architecture
project management
interior design
Fernando Mata A.I.A., Partner Hector Rene Garcia R.A., Partner
1311 West Ivy Avenue McAllen, Texas 78501 Tel: (956) 631-1985 Fax: (956) 631-1988

SHEET: 5.2



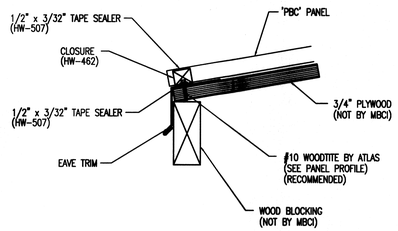
RE: 1/5.1
1 PANEL FASTENER DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



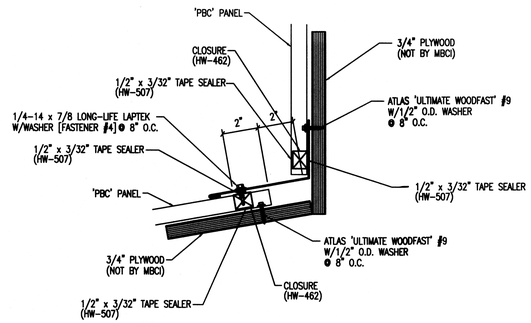
RE: 1/5.1
2 PANEL LAPPING DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



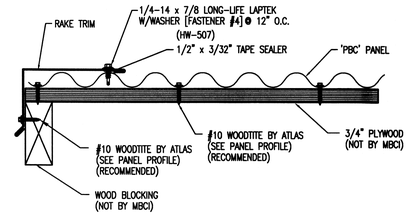
RE: 1/5.1
3 LOW EAVE DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



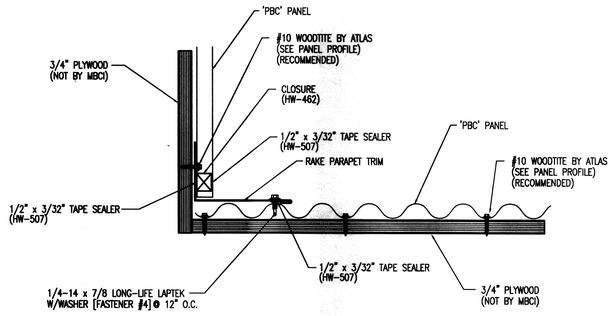
RE: 1/5.1
4 HIGH EAVE TO WALL DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



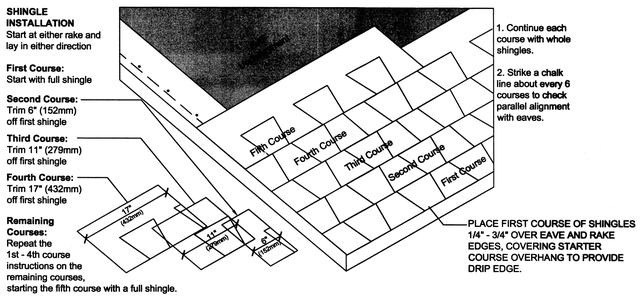
RE: 1/5.1
5 RAKE DETAIL
SCALE: 3"=1'-0"

NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.

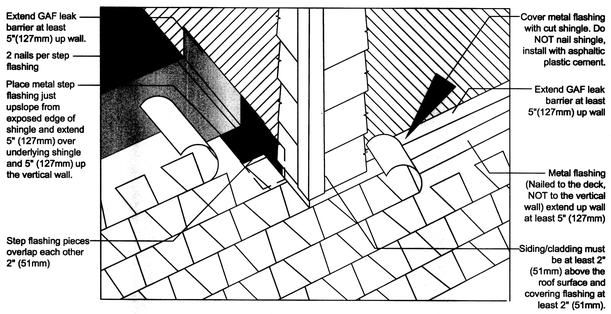


RE: 1/5.1
6 RAKE TO WALL DETAIL
SCALE: 3"=1'-0"

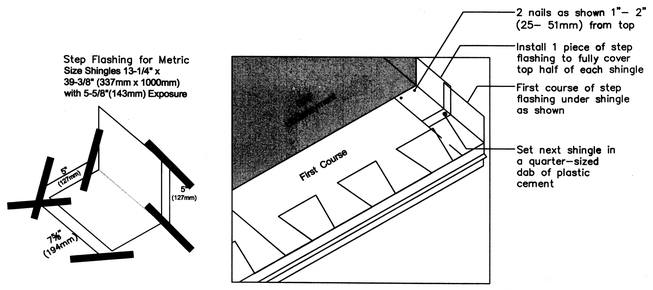
NOTE: BASED ON MBCI PBC PANEL, SUBSTITUTIONS MUST BE APPROVED BY ARCHITECT PRIOR TO BID.



RE:
7 TYPICAL SHINGLE ROOFING INSTALLATION
SCALE: N.T.S.
ALTERNATE 2



RE:
8 WALL FLASHING DETAIL
SCALE: N.T.S.
ALTERNATE 2



RE:
9 STEP FLASHING DETAIL
SCALE: N.T.S.
ALTERNATE 2

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
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SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA STATE OF TEXAS
HECTOR R. GARCIA # 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia
ARCHITECTS L.L.P
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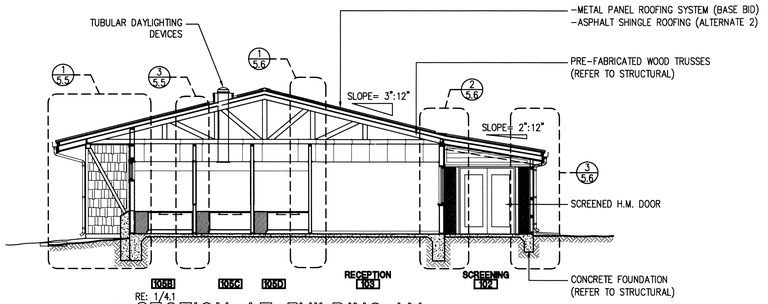
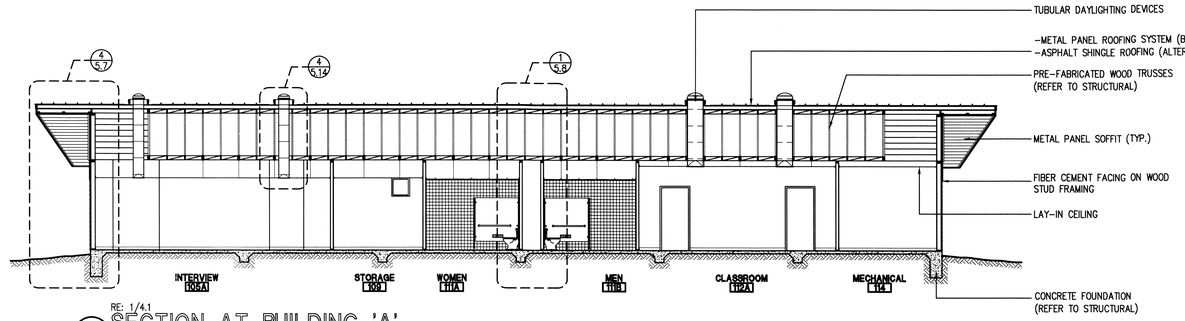
1311 West Ivy Avenue McAllen, Texas 78501

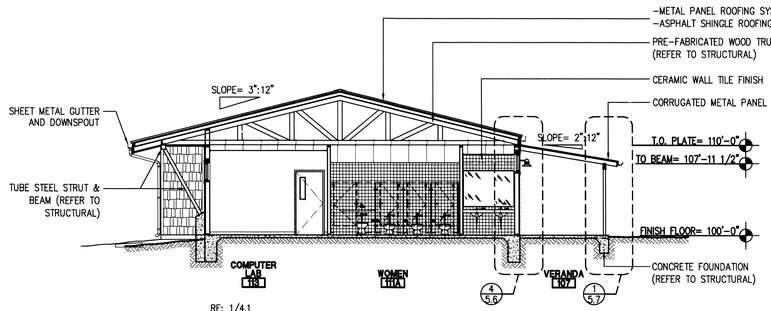
SHEET: 5.3



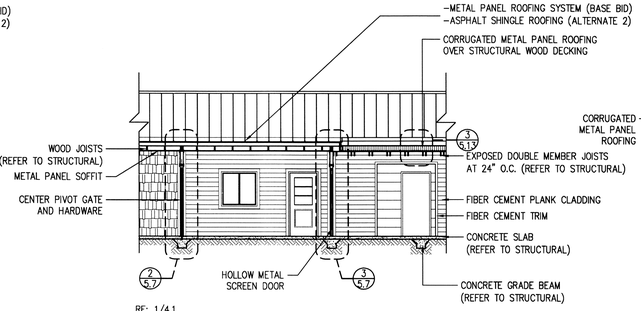
RE: 1/4.1
1 SECTION AT BUILDING 'A'
SCALE: 1/8"=1'-0"



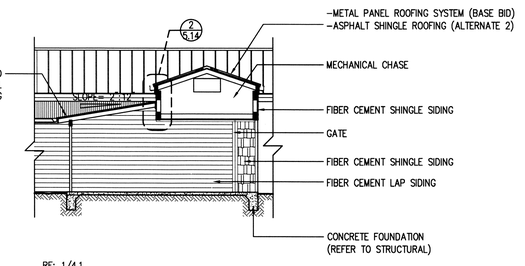
RE: 1/4.1
2 SECTION AT BUILDING 'A'
SCALE: 1/8"=1'-0"



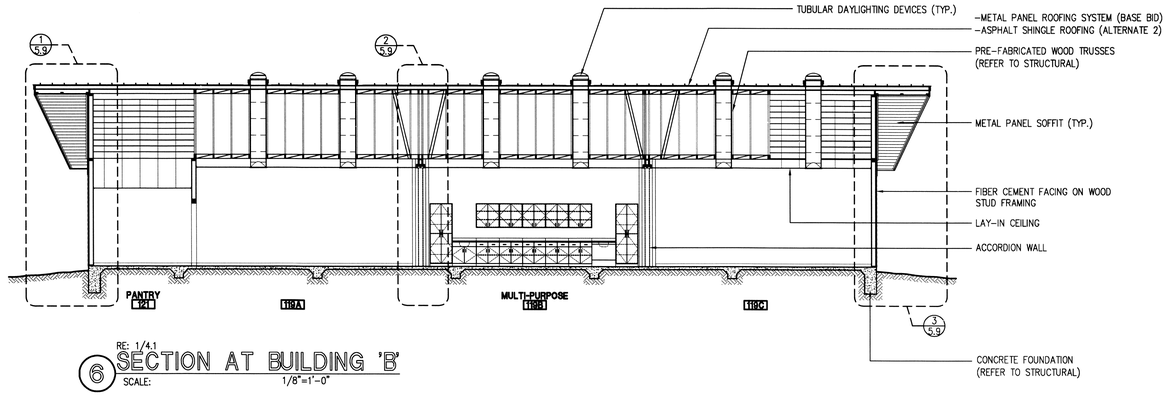
RE: 1/4.1
3 SECTION AT BUILDING 'A'
SCALE: 1/8"=1'-0"



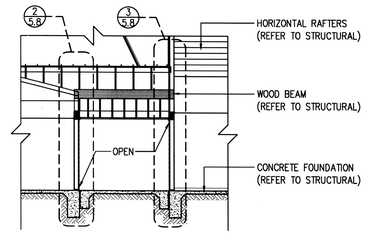
RE: 1/4.1
4 SECTION AT SCREENING 102
SCALE: 1/8"=1'-0"



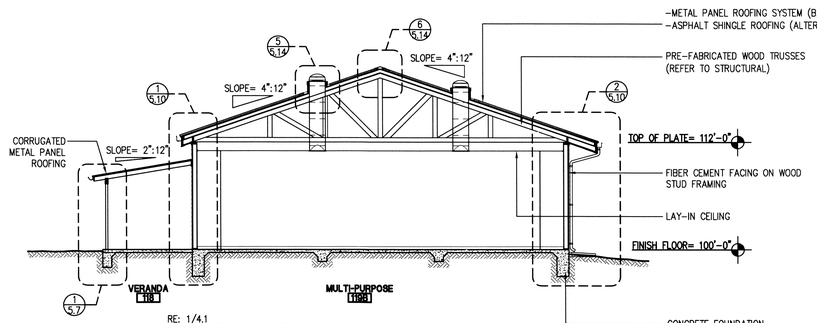
RE: 1/4.1
5 SECTION AT PATIO 117
SCALE: 1/8"=1'-0"



RE: 1/4.1
6 SECTION AT BUILDING 'B'
SCALE: 1/8"=1'-0"



RE: 1/4.1
7 SECTION AT PATIO 117
SCALE: 1/8"=1'-0"



RE: 1/4.1
8 SECTION THROUGH BUILDING 'B'
SCALE: 1/8"=1'-0"

PROJECT #: 20130
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 13968
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS LLP
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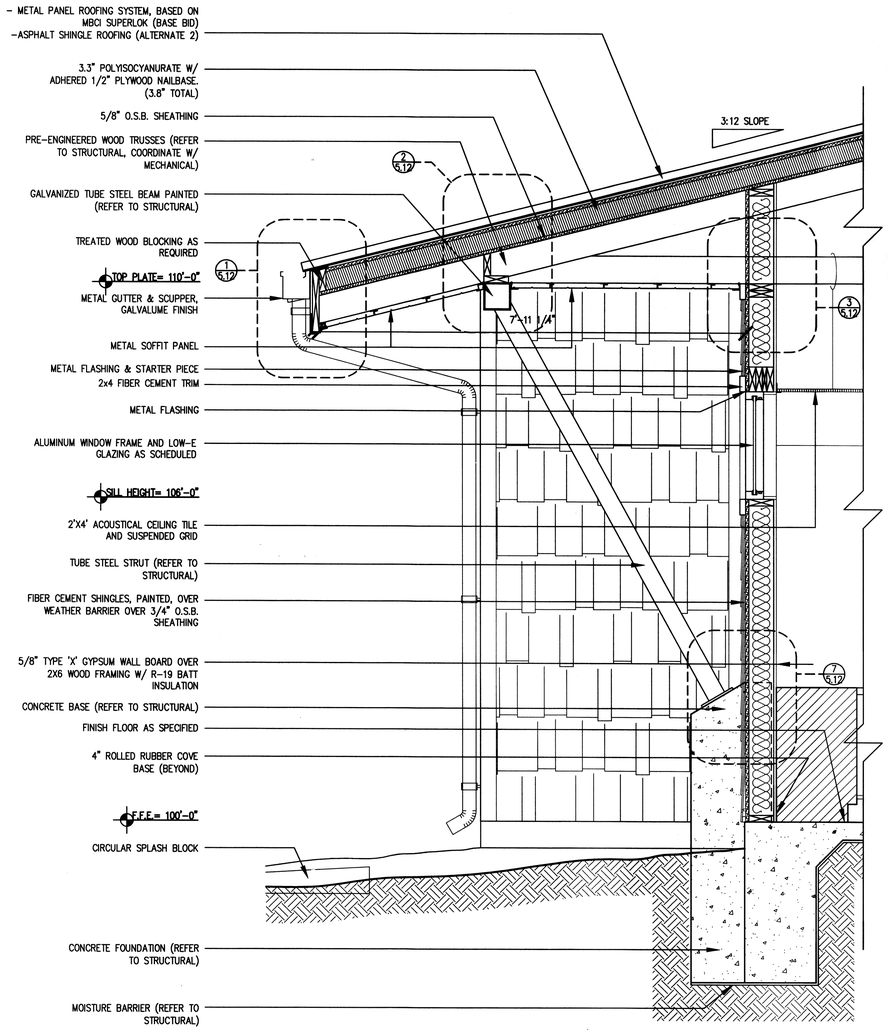
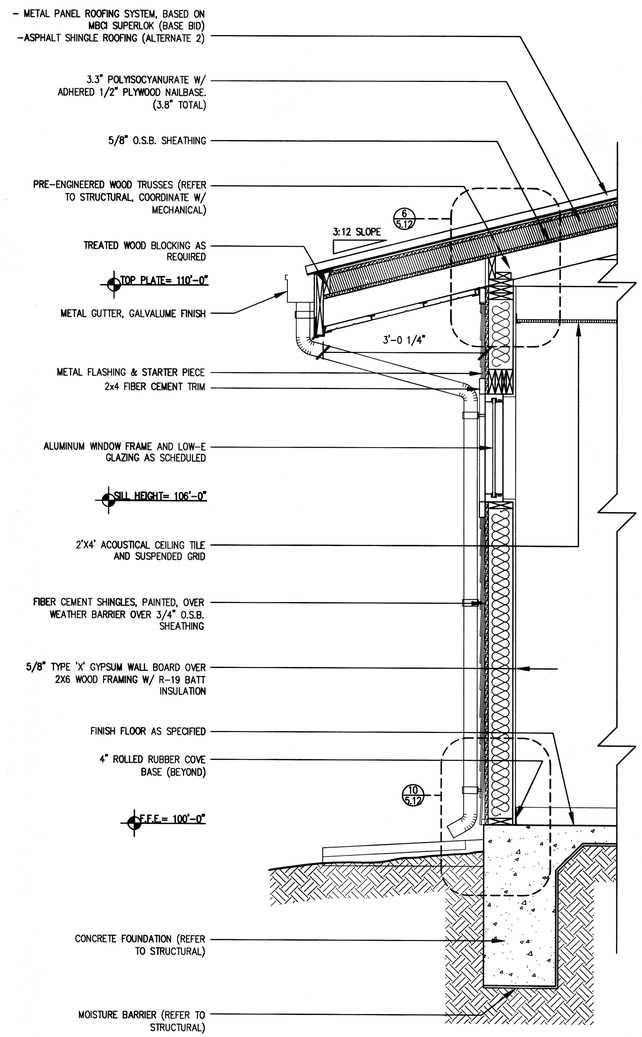
Fax : (956) 631-1968

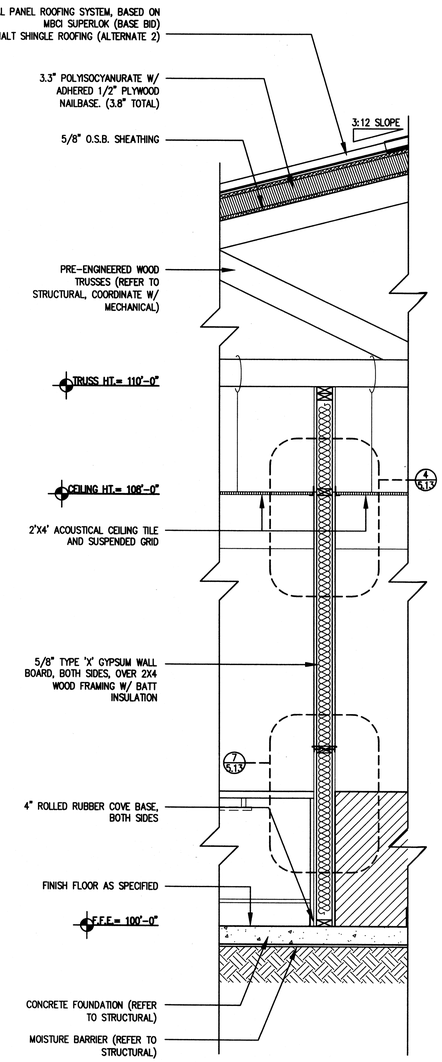
SHEET: 5.4



RE: 5/5.4
1 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 1/4.1
2 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 1/5.4
3 WALL SECTION
SCALE: 3/4"=1'–0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA 13982 STATE OF TEXAS
HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

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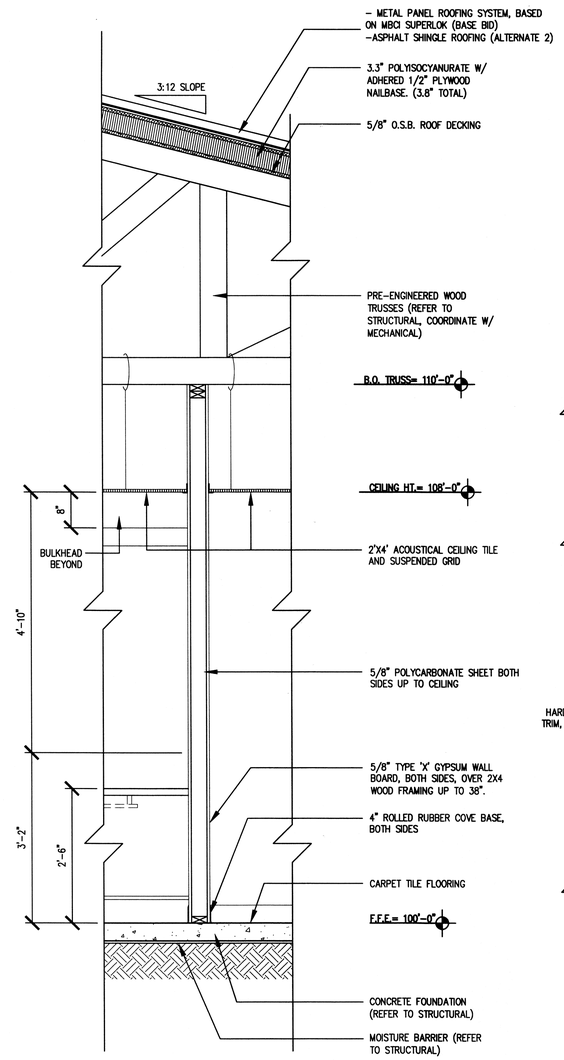
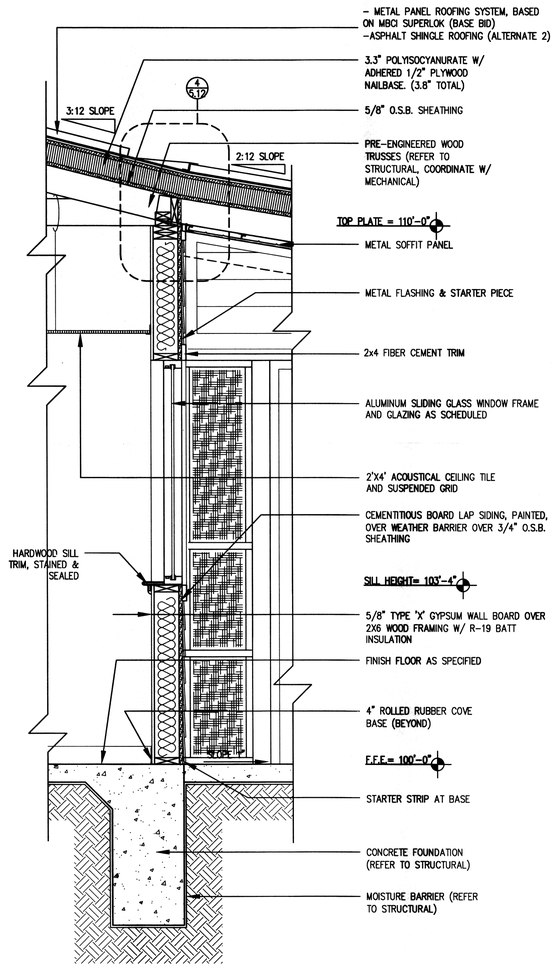
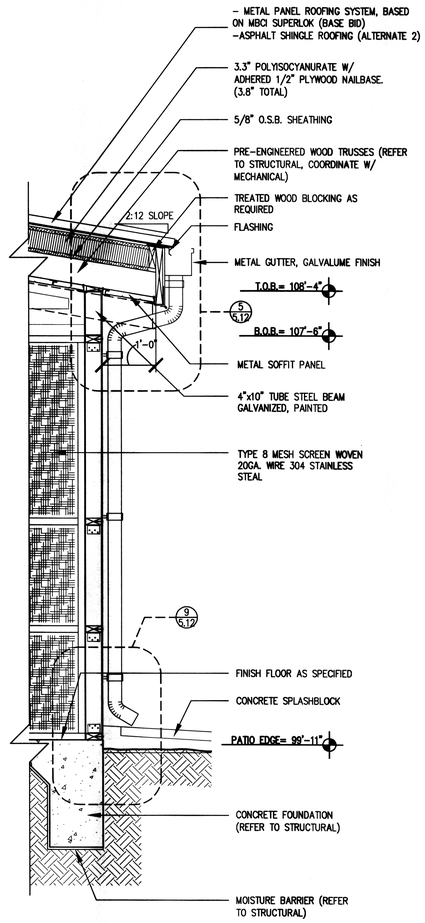
SHEET: 5.5



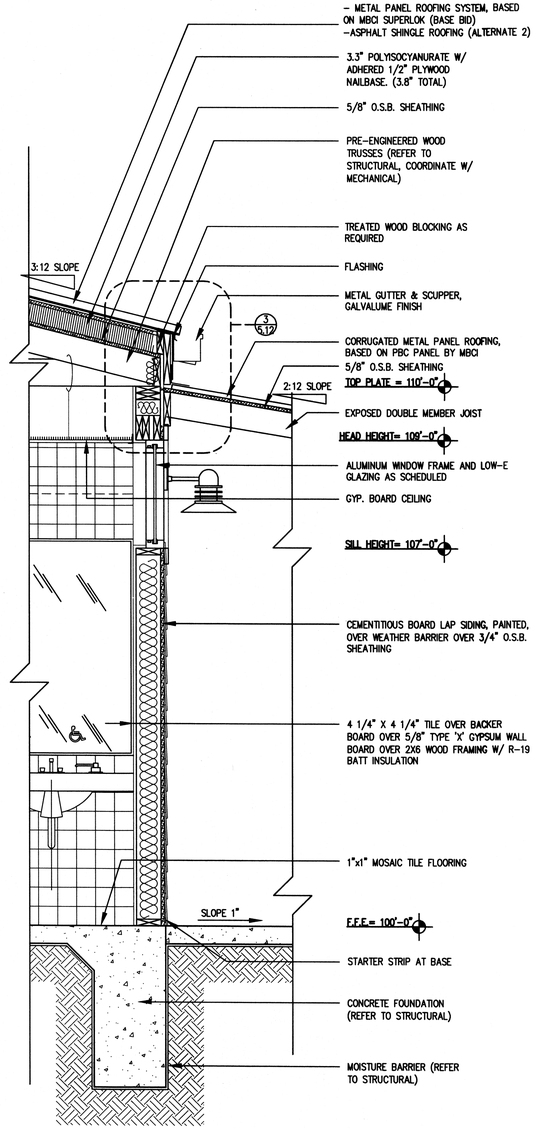
RE: 1/5.4
1 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 1/5.4
2 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 1/5.4
3 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 3/5.4
4 WALL SECTION
SCALE: 3/4"=1'–0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.C.
REVISION:
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SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA 13962

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia
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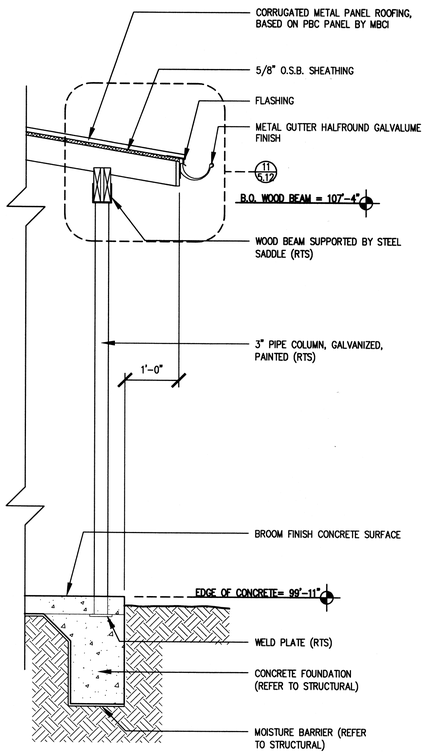
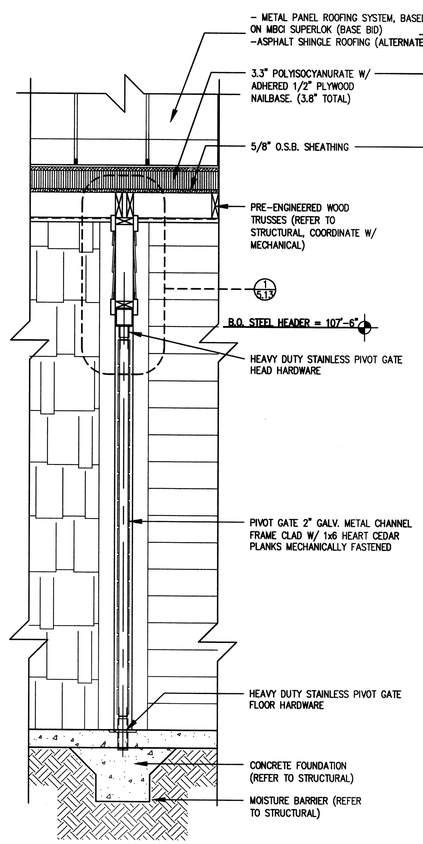
Fax : (956) 631-1966

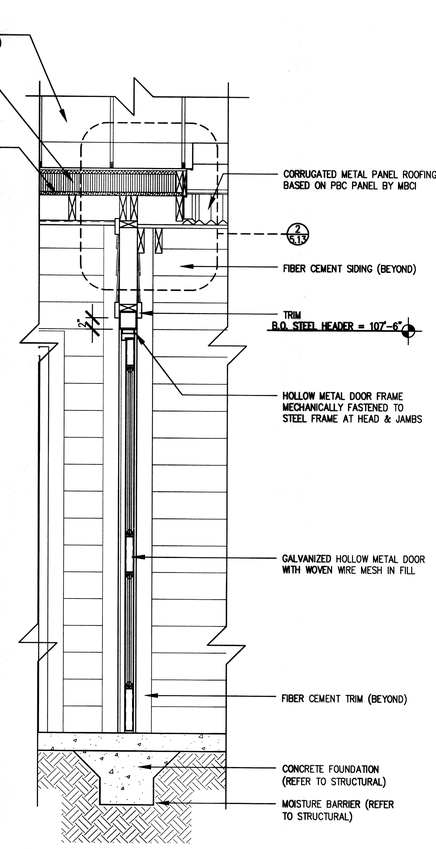
SHEET: 5.6



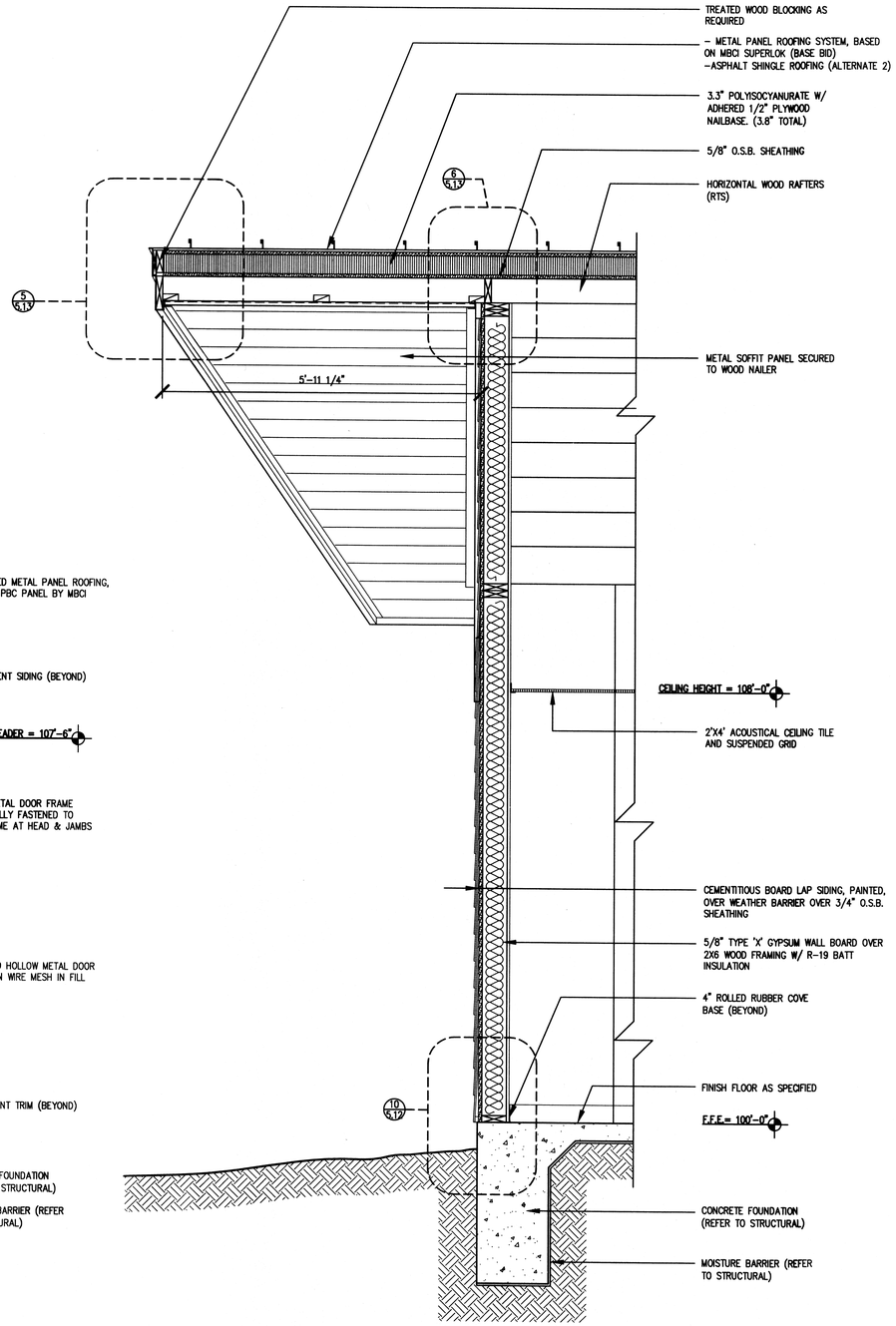
RE: 3/5.4
1 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 4/5.4
2 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 4/5.4
3 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 2/5.4
4 WALL SECTION
SCALE: 3/4"=1'-0"

PROJECT #: 201305
DATE: 01.15
DRAWN BY: GRC
CHECKED BY: H.R.G.
REVISION:
1:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA 15892 STATE OF TEXAS
HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.L.P
architecture | project management | interior design
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Hector Rene Garcia R.A., Partner
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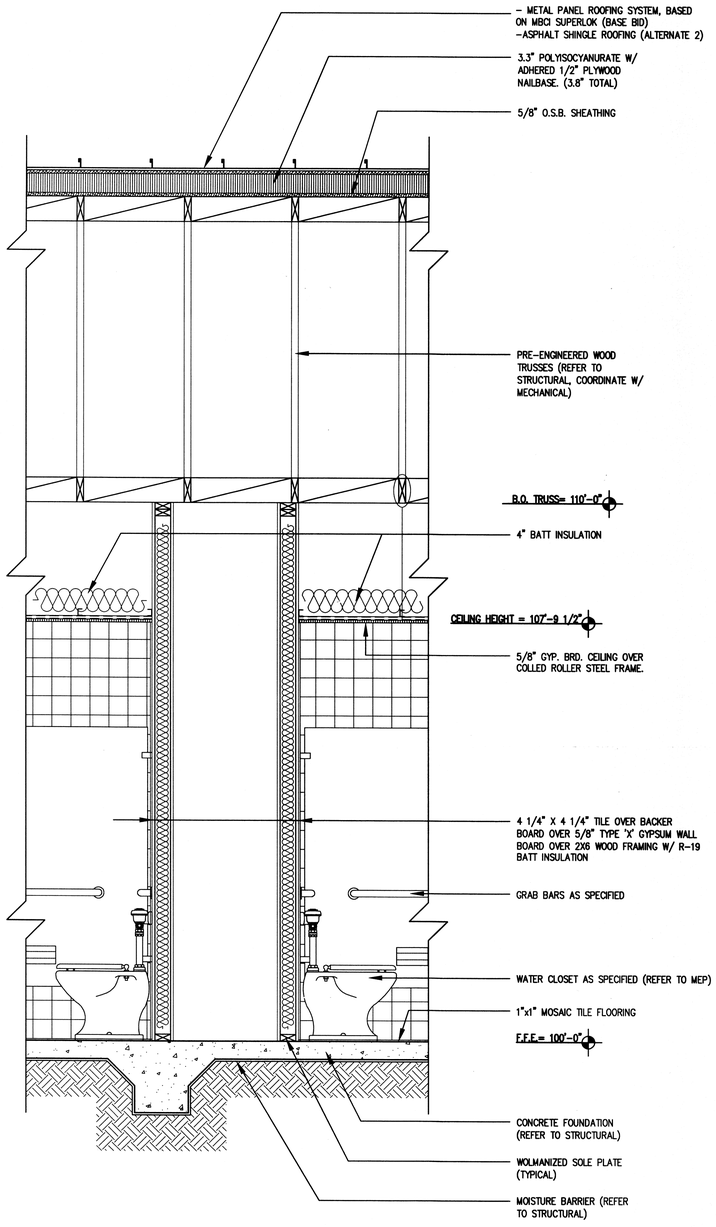
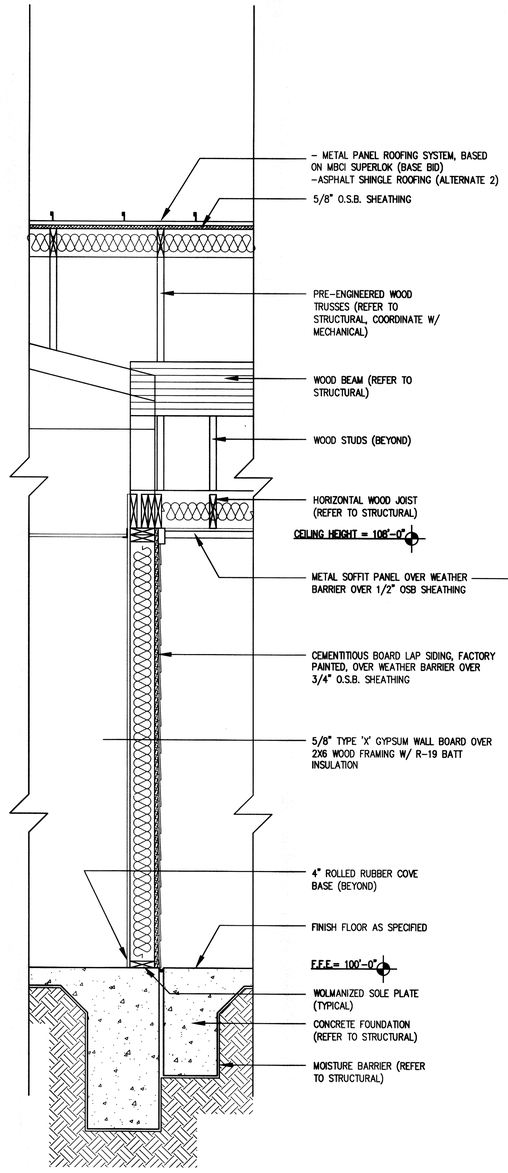
Tel : (956) 631-8945 Fax : (956) 631-9668

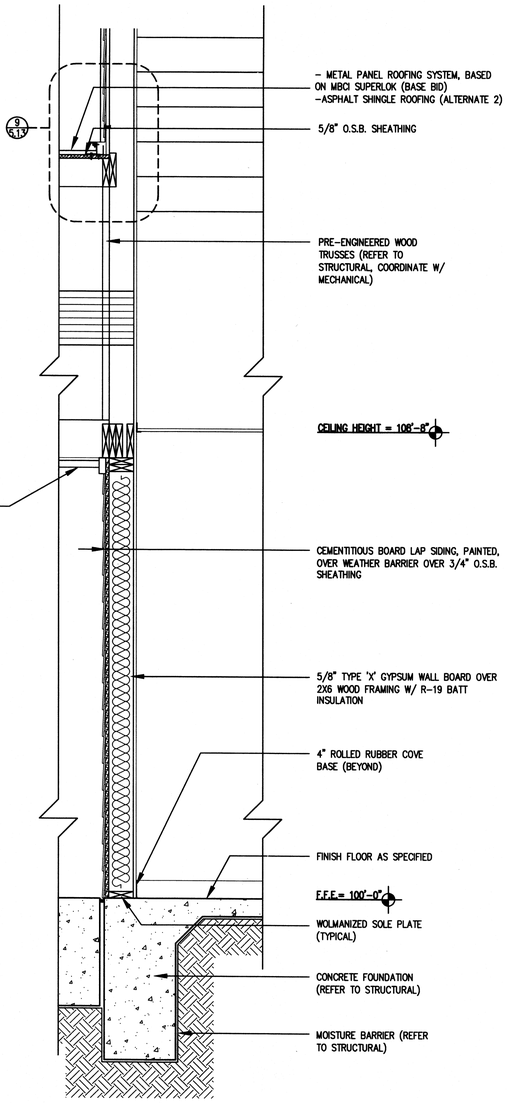
SHEET: 5.7



RE: 2/5.4
1 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 7/5.4
2 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 7/5.4
3 WALL SECTION
SCALE: 3/4"=1'-0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA 13962 STATE OF TEXAS
HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

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Hector Rene Garcia R.A., Partner
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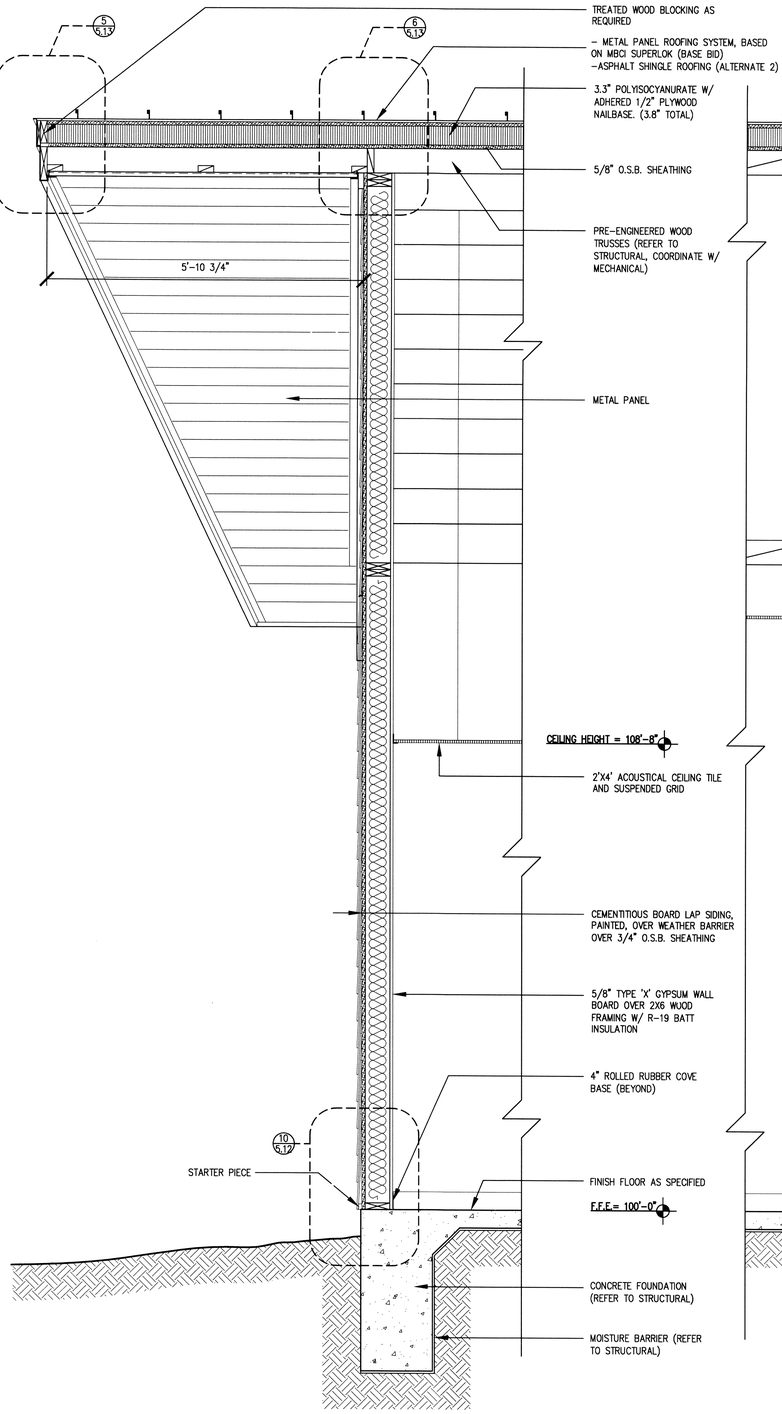
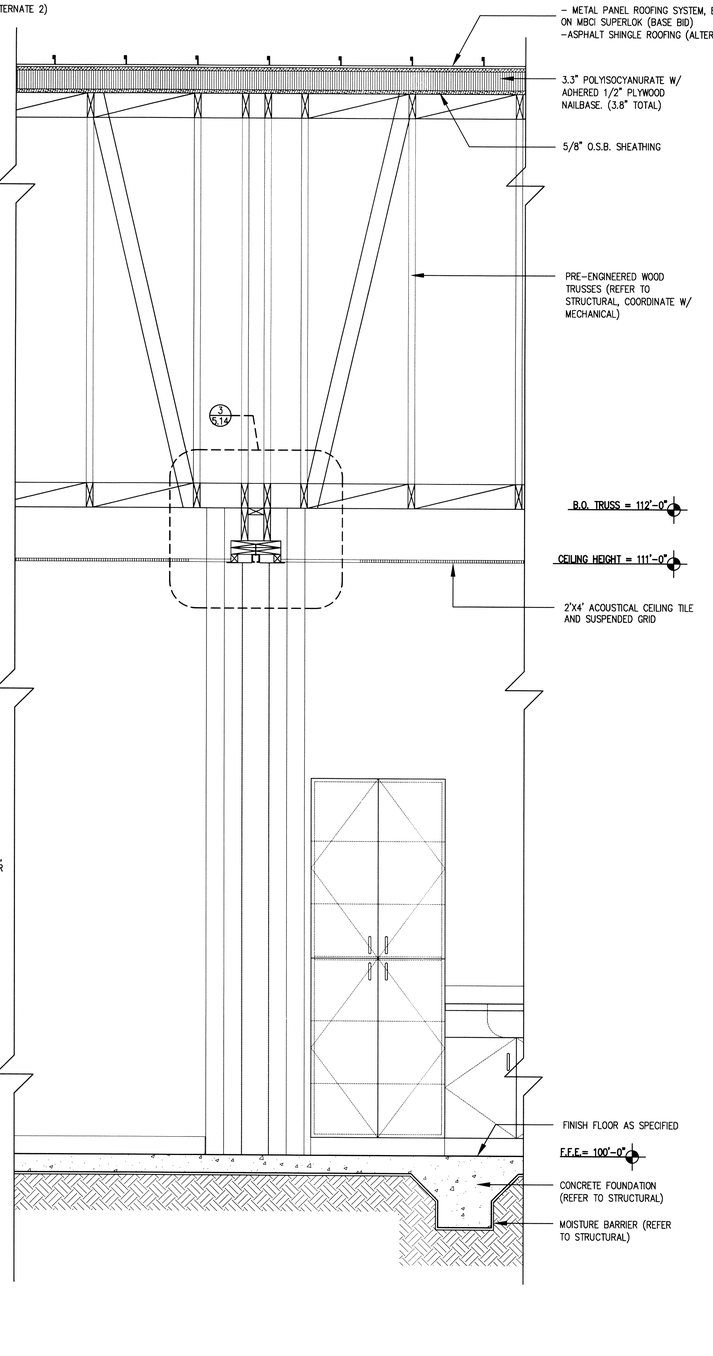
Fax : (956) 631-1968

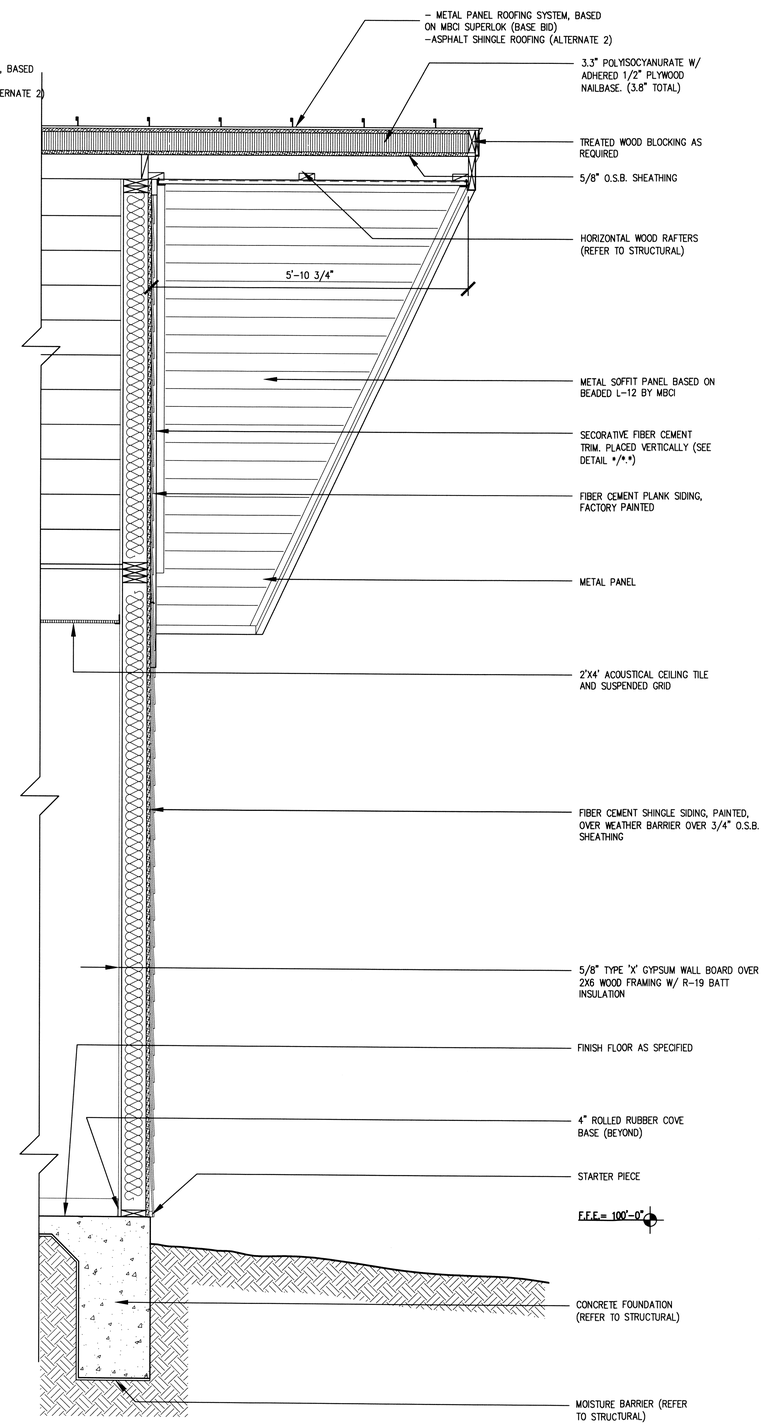
SHEET: 5.8



RE: 6/5.4
1 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 6/5.4
2 WALL SECTION
SCALE: 3/4"=1'–0"



RE: 6/5.4
3 WALL SECTION
SCALE: 3/4"=1'–0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: ORC
CHECKED BY: H.R.G.

REVISION:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

HECTOR R. GARCIA 130
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.L.P
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Hector Rene Garcia R.A., Partner
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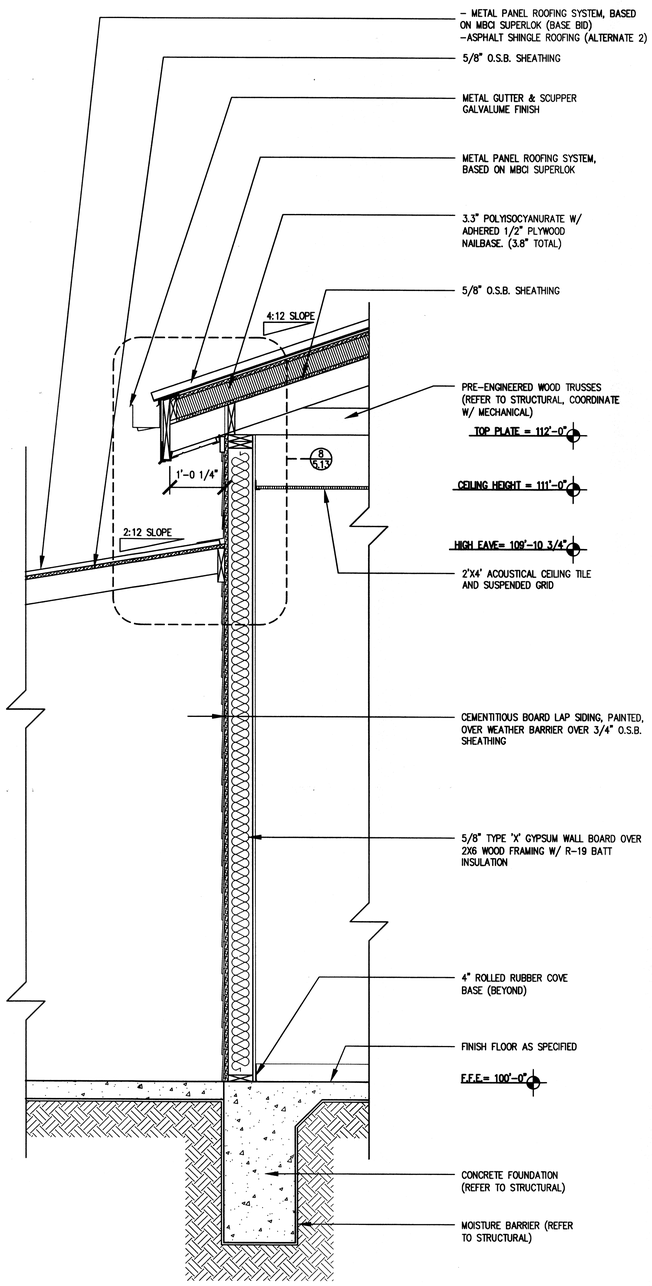
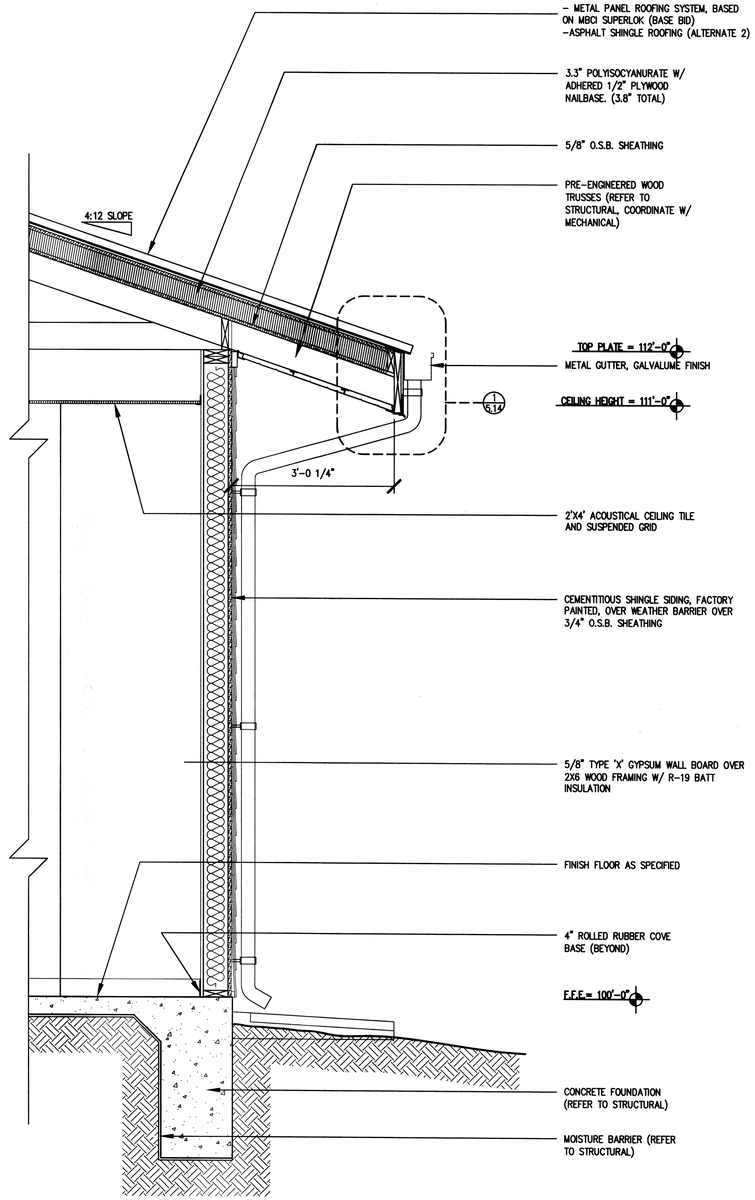
SHEET: 5.9



RE: 8/S.4
1 WALL SECTION
SCALE: 3/4"=1'-0"



RE: 8/S.4
2 WALL SECTION
SCALE: 3/4"=1'-0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
1:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 80501 REGISTERED ARCHITECT STATE OF TEXAS
HECTOR R. GARCIA
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.l.p
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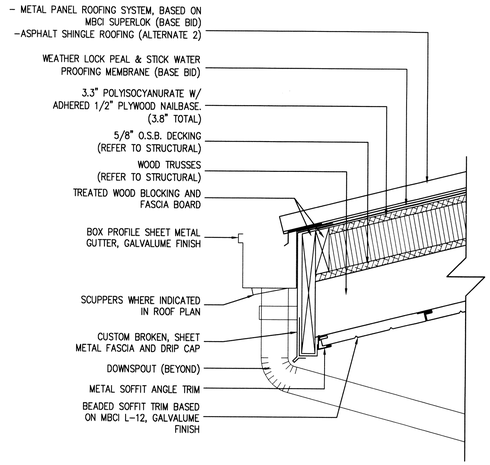
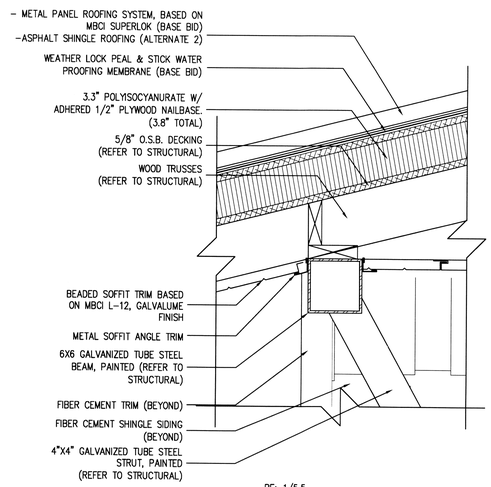
Fax.: (956) 631-1968

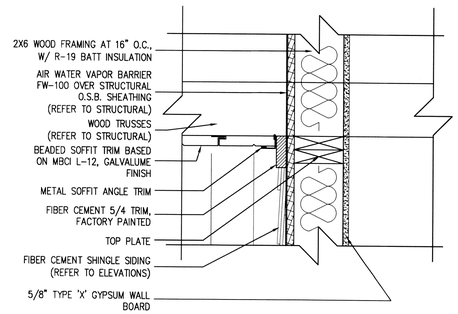
SHEET:
5.10



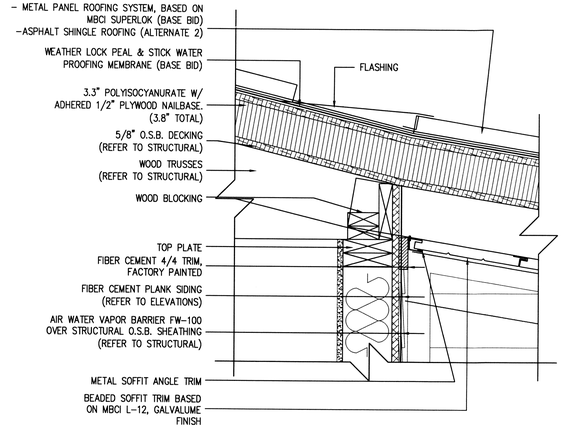
RE: 1/5.5
1 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 1/5.5
2 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 1/5.5
3 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



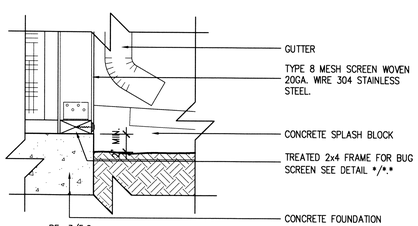
RE: 2/5.6
4 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

RE: 3/5.6
5 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

RE: 2/5.5
6 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

RE: 1/5.5
7 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

RE: 4/5.6
8 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 3/5.6
9 SECTION DETAIL
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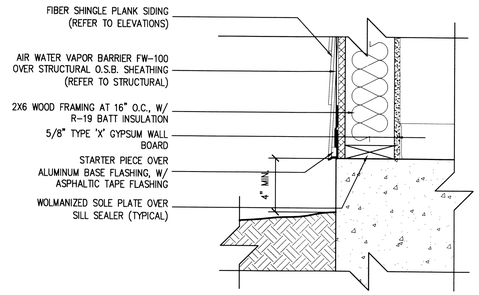
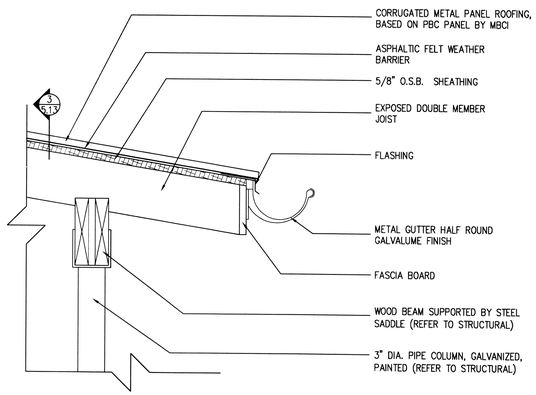


RE: 1/5.5, 2/5.5, 4/5.7
10 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 1/5.7
11 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: DRC
CHECKED BY: H.R.G.
REVISION:
1: 2:
3: 4:

SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 82402
LICENSE EXPIRES: 03/31/14

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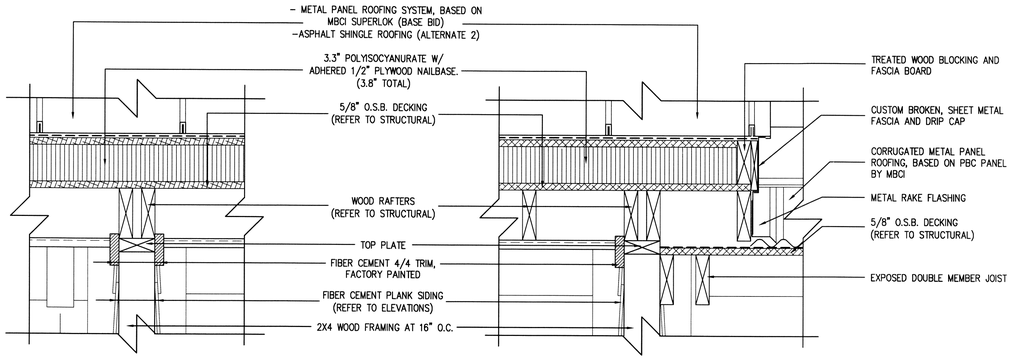
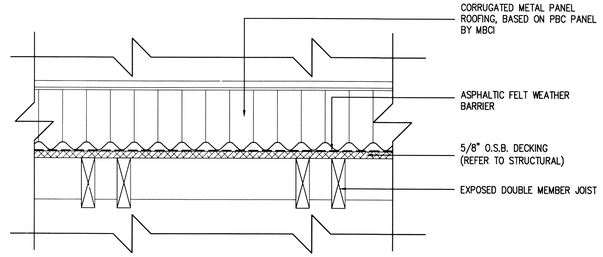
SHEET: 5.12

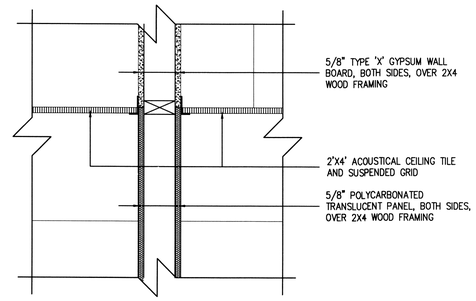


RE: 2/5.7
1 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

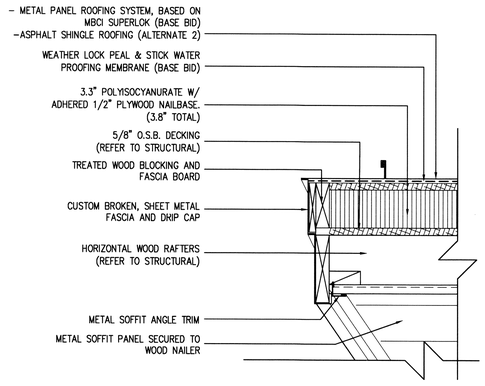
RE: 3/5.7
2 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



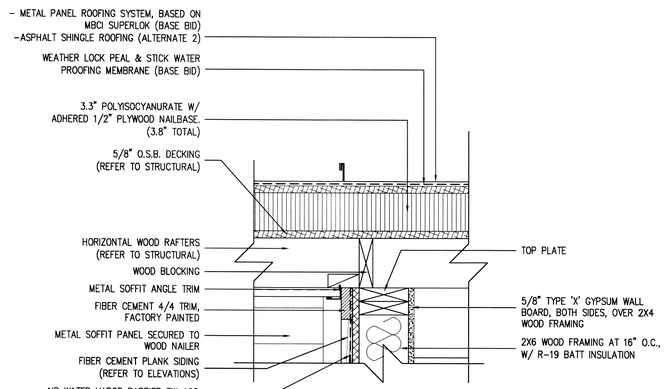
RE: 4/5.4, 1/5.7, 11/5.12
3 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



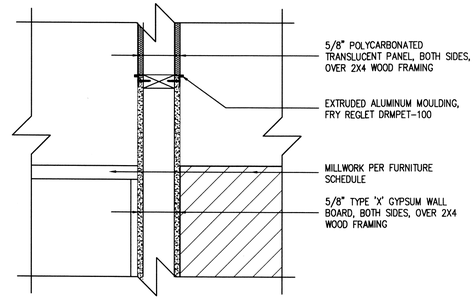
RE: 3/5.5
4 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



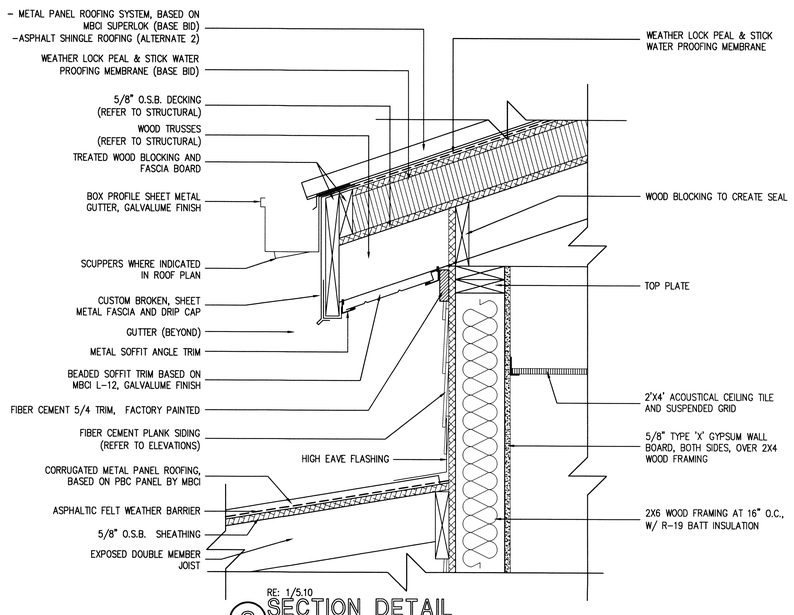
RE: 4/5.7, 1/5.9
5 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



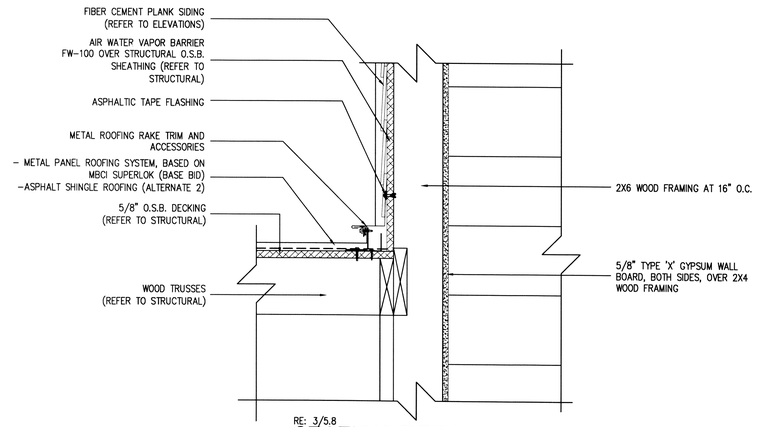
RE: 4/5.7, 1/5.9
6 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 3/5.5
7 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 1/5.10
8 SECTION DETAIL
SCALE: 1–1/2"=1'–0"



RE: 3/5.8
9 SECTION DETAIL
SCALE: 1–1/2"=1'–0"

PROJECT #: 20130
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
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3:
4:

SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

HECTOR R. GARCIA 13912
LICENSE EXPIRES: 03/31/14

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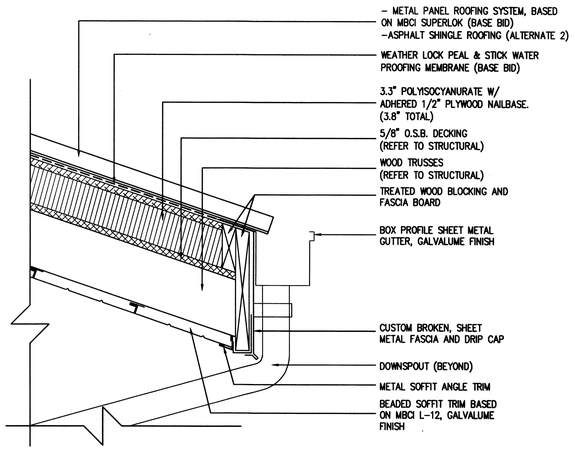
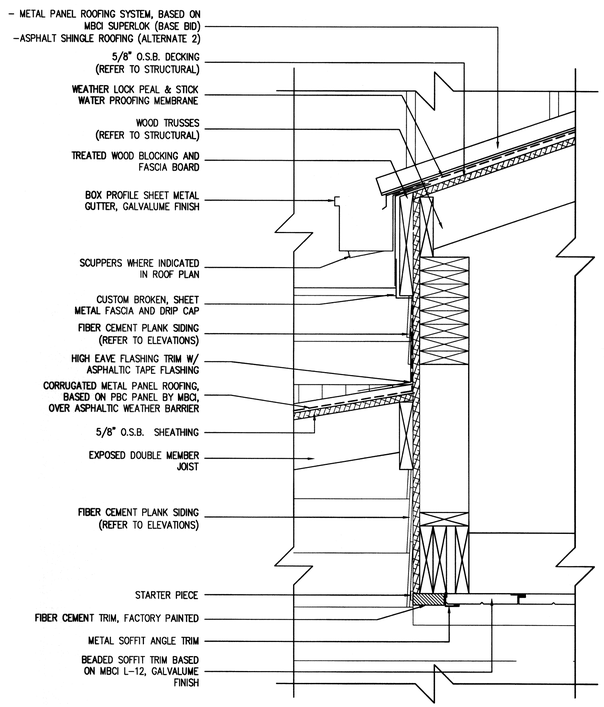
Fax: (956) 631-1968

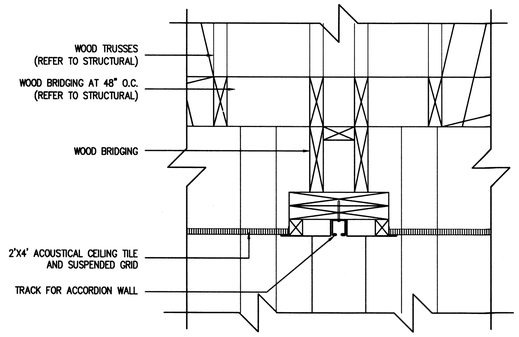
SHEET:
5.13



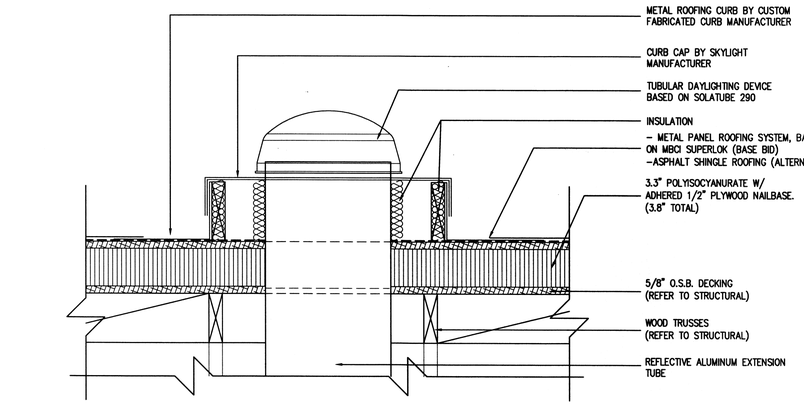
RE: 2/5.10
1 SECTION DETAIL
SCALE: 1-1/2"=1'-0"

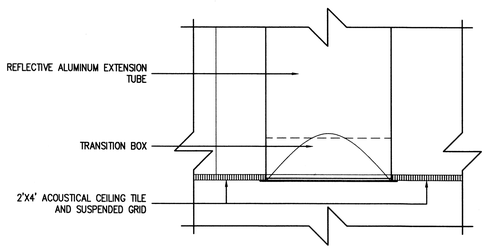


RE: 5/5.4
2 SECTION DETAIL
SCALE: 1-1/2"=1'-0"

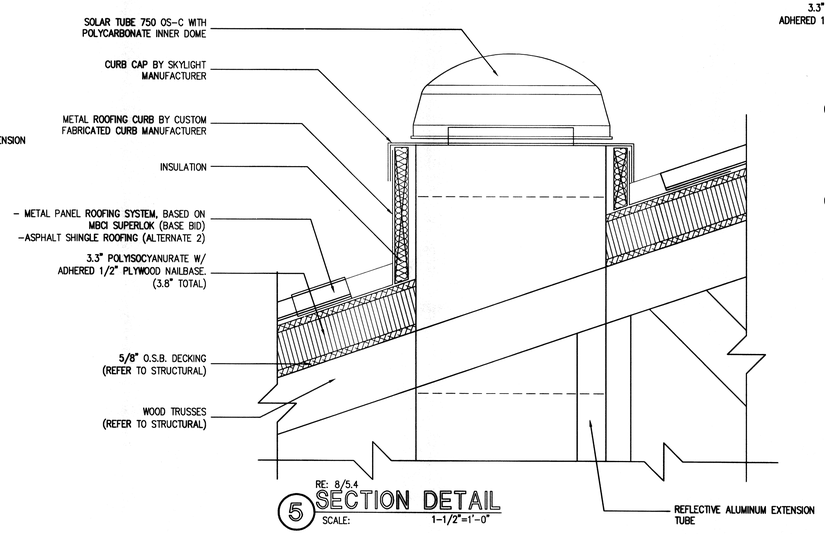


RE: 6/5.4, 2/5.9
3 SECTION DETAIL
SCALE: 1-1/2"=1'-0"

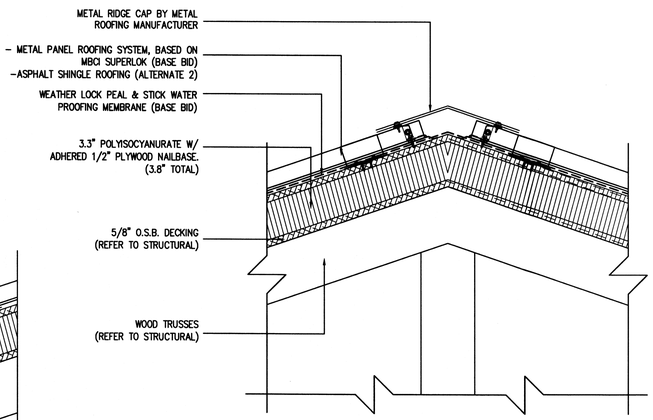




RE: 2/5.4
4 SECTION DETAIL
SCALE: 1-1/2"=1'-0"



RE: 8/5.4
5 SECTION DETAIL
SCALE: 1-1/2"=1'-0"



RE: 8/5.4
6 SECTION DETAIL
SCALE: 1-1/2"=1'-0"

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
1:
2:
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4:

SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA
HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.L.P
architecture | project management | interior design
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1314 West Ivy Avenue McAllen, Texas 78501
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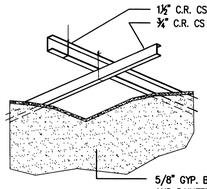
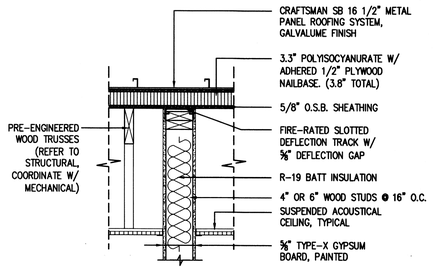
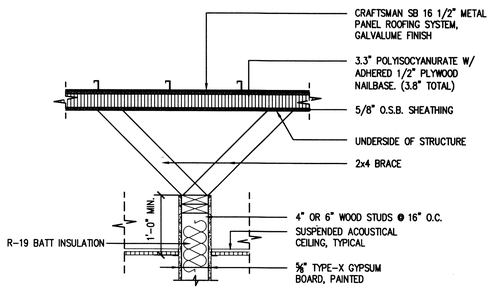
SHEET: 5.14



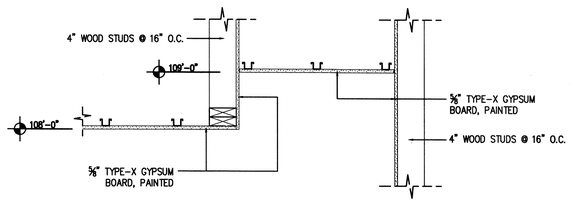
2 SUSPENDED GYPSUM BOARD CEILING DETAIL (TYP)
SCALE: N.T.S.



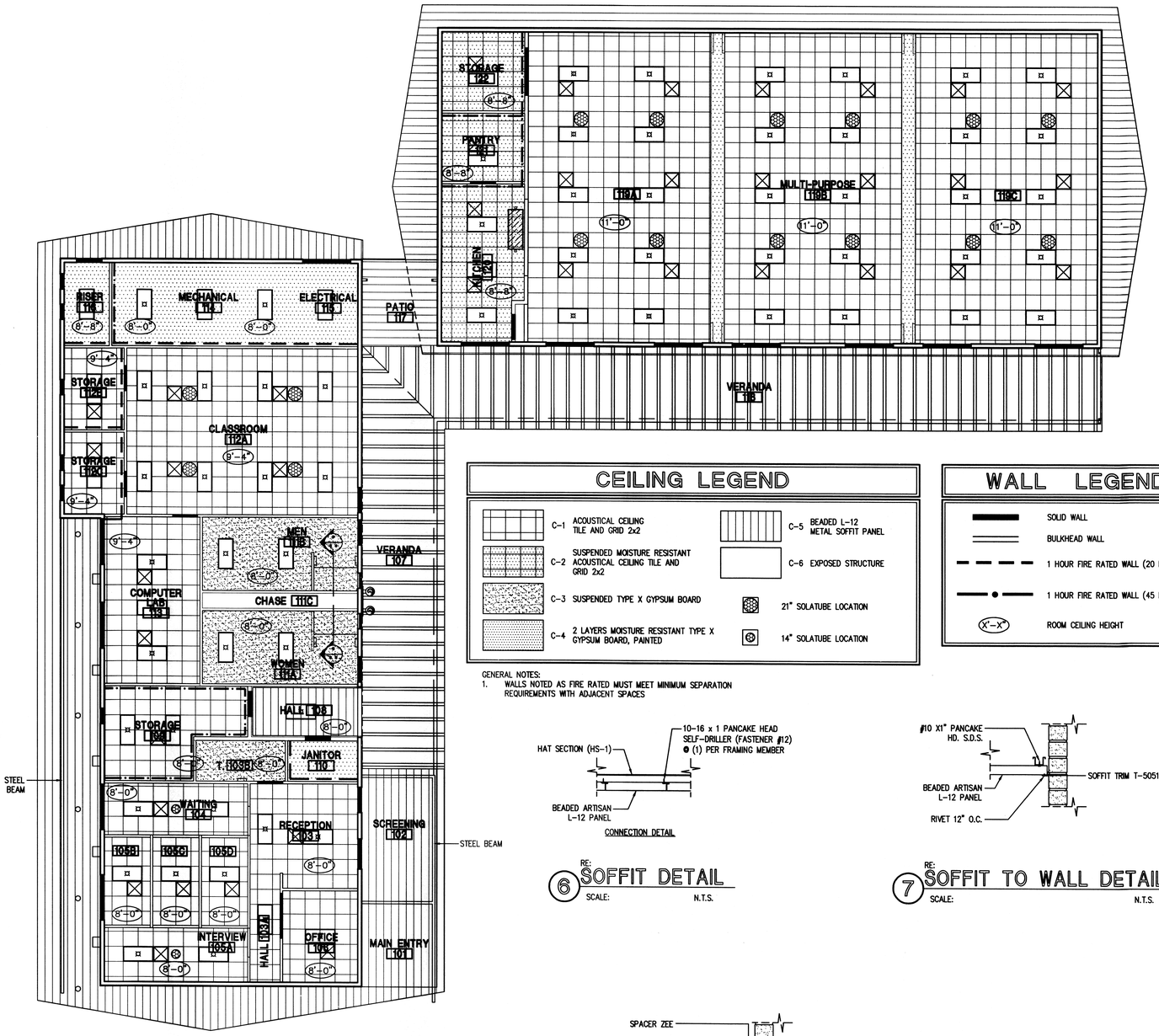
3 HEAD OF 1 HR. RATED WALL (TYP.)
SCALE: N.T.S.



4 TYPICAL WALL ABOVE CEILING
SCALE: N.T.S.



5 CEILING DETAIL
SCALE: N.T.S.



1 RE: REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

NORTH PLAN NORTH

CEILING LEGEND

- C-1 ACOUSTICAL CEILING TILE AND GRID 2x2
- C-2 SUSPENDED MOISTURE RESISTANT ACOUSTICAL CEILING TILE AND GRID 2x2
- C-3 SUSPENDED TYPE X GYPSUM BOARD
- C-4 2 LAYERS MOISTURE RESISTANT TYPE X GYPSUM BOARD, PAINTED
- C-5 BEADED L-12 METAL SOFFIT PANEL
- C-6 EXPOSED STRUCTURE
- 21" SOLATUBE LOCATION
- 14" SOLATUBE LOCATION

WALL LEGEND

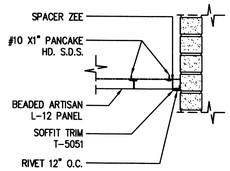
- SOLID WALL
- BULKHEAD WALL
- 1 HOUR FIRE RATED WALL (20 MIN. DOOR)
- 1 HOUR FIRE RATED WALL (45 MIN. DOOR)
- (X'-X") ROOM CEILING HEIGHT

GENERAL NOTES:
1. WALLS NOTED AS FIRE RATED MUST MEET MINIMUM SEPARATION REQUIREMENTS WITH ADJACENT SPACES

CONNECTION DETAIL

6 RE: SOFFIT DETAIL
SCALE: N.T.S.

7 RE: SOFFIT TO WALL DETAIL
SCALE: N.T.S.



8 RE: SOFFIT TO WALL DETAIL
SCALE: N.T.S.

PROJECT #: 20'305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.
REVISION:
1:
2:
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR R. GARCIA
HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia
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project management
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ARCHITECTS L.l.p
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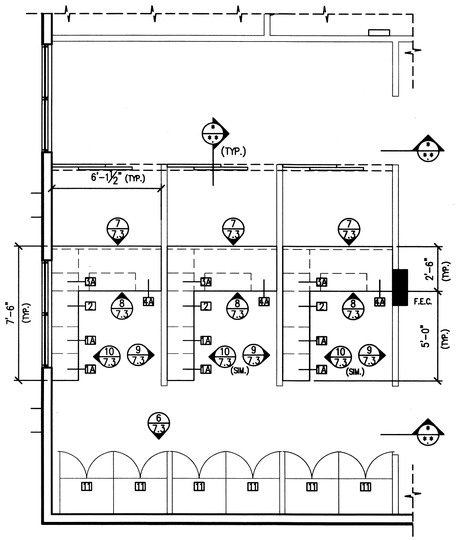
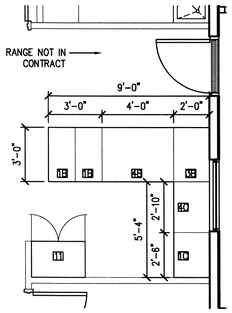
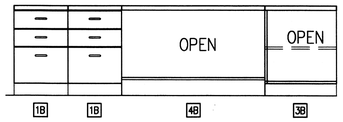
SHEET: 6.1



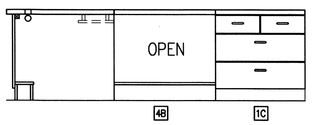
2 PLAN DETAIL • INTERVIEW 105A
SCALE: 1/4"=1'-0"



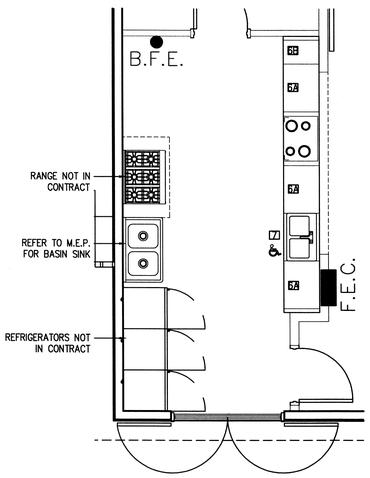
3 PLAN DETAIL • RECEPTION 103
SCALE: 1/4"=1'-0"



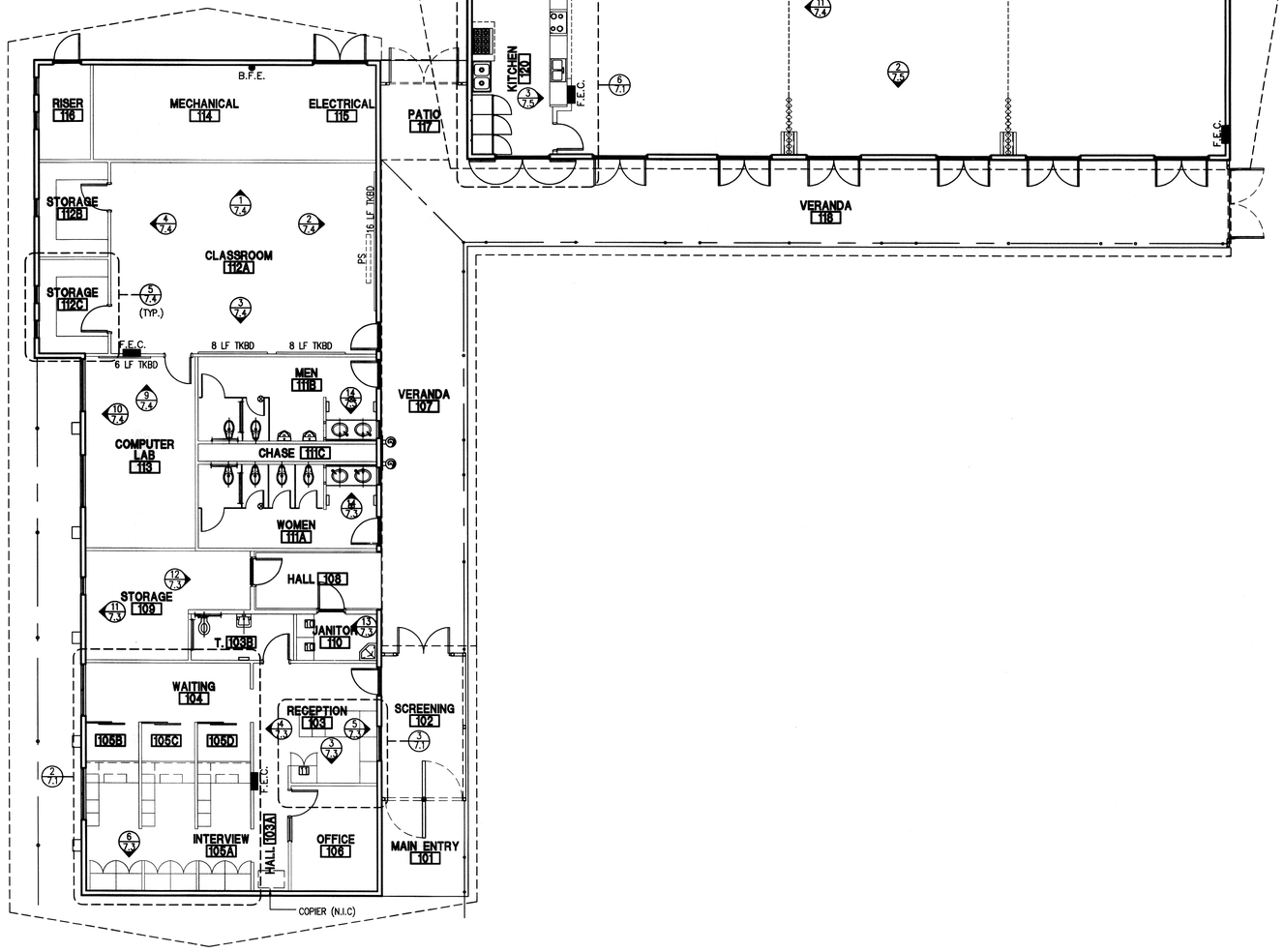
4 ELEVATION AT RECEPTION DESK
SCALE: 1/2" = 1'-0"



5 ELEVATION AT RECEPTION DESK
SCALE: 1/2" = 1'-0"



6 PLAN DETAIL • KITCHEN 120
SCALE: 1/4"=1'-0"



1 RE: FURNITURE PLAN
SCALE: 1/8"=1'-0"

NORTH PLAN NORTH

PROJECT #: 201305
DATE: 10.11.13
DRAWN BY: CRC
CHECKED BY: H.R.G.

REVISION:
1:
2:
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4:

SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA 13962 STATE OF TEXAS
HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.L.P.
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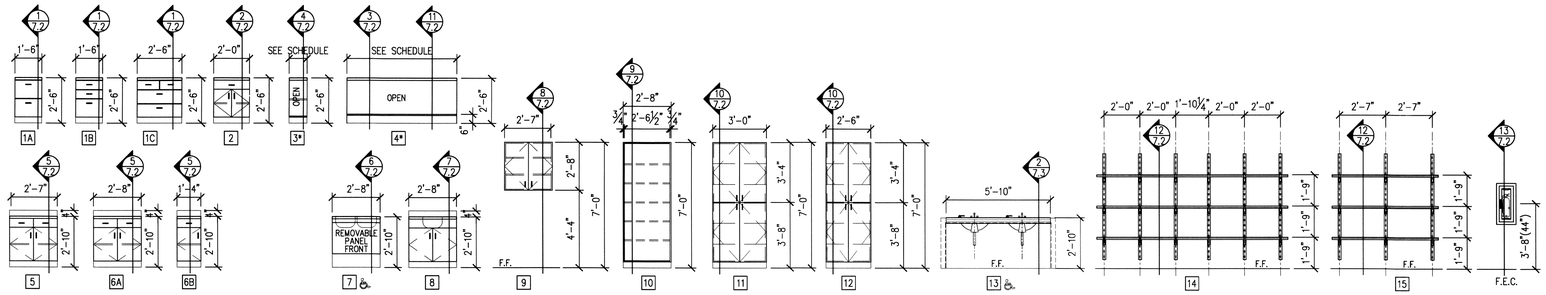
SHEET: 7.1



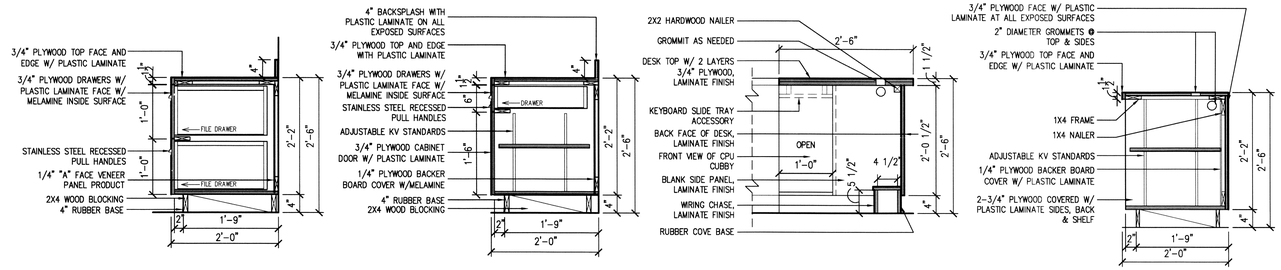
FIXTURE SCHEDULE

NO.	FIXTURE	W" X D" X H"	REMARKS
1A	DESK HEIGHT BASE DRAWERS	18" X 24" X 30"	PROVIDE LOCKING HARDWARE
1B	DESK HEIGHT BASE DRAWERS	18" X 36" X 30"	PROVIDE LOCKING HARDWARE
1C	DESK HEIGHT BASE DRAWERS	30" X 24" X 30"	PROVIDE LOCKING HARDWARE
2.	DESK HEIGHT BASE CABINET	24" X 24" X 30"	PROVIDE LOCKING HARDWARE
3A	DESK HEIGHT CPU CUBBY	12" X 18" X 30"	
3B	DESK HEIGHT CPU CUBBY	24" X 24" X 30"	
4A	DESK TOP	73.5" X 30" X 30"	
4B	DESK TOP	48" X 36" X 30"	
4C	DESK TOP	34" X 24" X 30"	
5.	COUNTER HEIGHT BASE CABINET	31" X 24" X 34"	PROVIDE LOCKING HARDWARE
6A.	COUNTER HEIGHT BASE CABINET	32" X 24" X 34"	PROVIDE LOCKING HARDWARE
6B.	COUNTER HEIGHT BASE CABINET	16" X 24" X 34"	PROVIDE LOCKING HARDWARE
7.	COUNTER HEIGHT SINK BASE (T.A.S.)	32" X 24" X 34"	PROVIDE LOCKING HARDWARE
8.	COUNTER HEIGHT BASE CABINET	32" X 24" X 34"	PROVIDE LOCKING HARDWARE
9.	UPPER CABINET	31" X 12" X 32"	PROVIDE LOCKING HARDWARE
10.	STORAGE SHELF UNIT	32" X 24" X 84"	
11.	TALL STORAGE CABINET	36" X 24" X 84"	PROVIDE LOCKING HARDWARE
12.	TALL STORAGE CABINET	30" X 24" X 84"	PROVIDE LOCKING HARDWARE
13.	LAVATORY COUNTER (T.A.S.)	70" X 24" X 34"	PROVIDE LOCKING HARDWARE
14.	SHELF RACK	118" X 12" X 84"	
15.	SHELF RACK	62" X 12" X 84"	

FIXTURE GENERAL NOTES

[#] FIXTURE# (REFER TO FIXTURE SCHEDULE)

1. IF NO FIXTURE WIDTH DESIGNATION IS GIVEN ON FIXURE PLAN REFER TO FIXTURE SCHEDULE FOR TOTAL FIXTURE DIMENSIONS
2. PROVIDE FILLER PIECES AS REQUIRED AT ALL CABINETS AND COUNTERTOPS
3. UPPER WALL CABINETS TO BE MOUNTED ON WALL WITH TOP OF CABINET AT 88" A.F.F. OTHERWISE NOTED
4. ALL COUNTERTOPS AND BACK SPLASHES TO BE PLASTIC LAMINATE, UNLESS OTHERISE NOTED ON FIXTURE PLAN
5. ALL CABINET DOORS AND DRAWERS TO BE LOCKABLE
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURE
7. MODEL NUMBERS SHOWN ARE REFERENCED FROM SOUTH TEXAS WOODMILL ARCHITECTURAL CASEWORK CATALOG



1 FILE DRAWER — SCALE: 3/4" = 1'-0"

2 CABINET — SCALE: 3/4" = 1'-0"

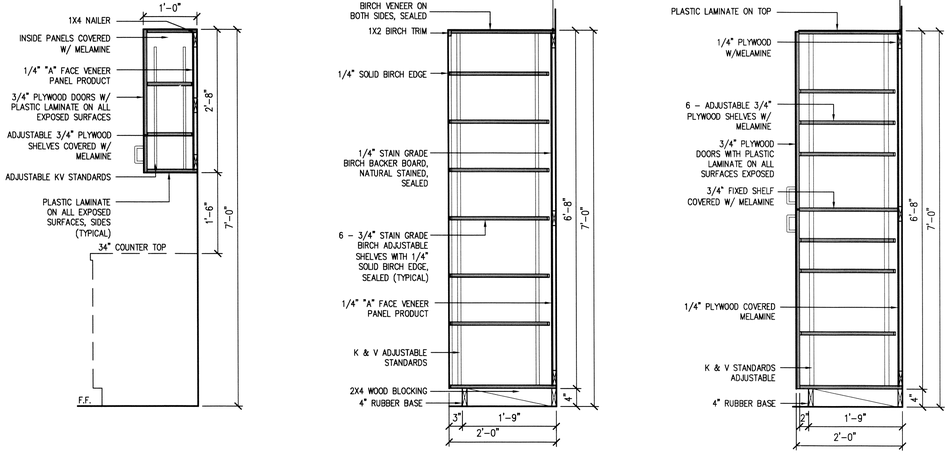
3 DESK SPACE — SCALE: 3/4" = 1'-0"

4 CPU CUBBY — SCALE: 3/4" = 1'-0"

5 CABINET — SCALE: 3/4" = 1'-0"

6 SINK — SCALE: 3/4" = 1'-0"

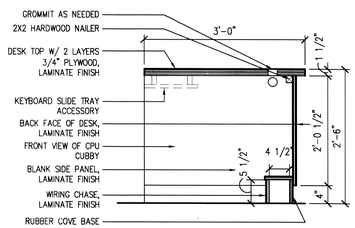
7 SINK — SCALE: 3/4" = 1'-0"



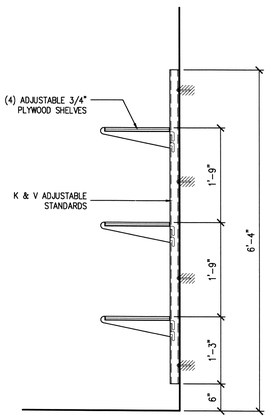
8 WALL CABINET — SCALE: 3/4" = 1'-0"

9 STORAGE — SCALE: 3/4" = 1'-0"

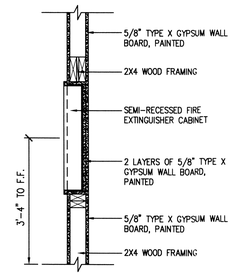
10 CABINET — SCALE: 3/4" = 1'-0"



11 DESK SPACE — SCALE: 3/4" = 1'-0"



12 TYPICAL SHELVING SYSTEM — SCALE: 3/4" = 1'-0"



13 F. E. CABINET DETAIL AT STUD WALL — SCALE: 3/4" = 1'-0"

PROJECT #: 201305
DATE: 10.11.13
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REVISION:
1:
2:
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SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

Mata & Garcia
ARCHITECTS LLp
architecture
project management
interior design
Fernando Mata A.I.A., Partner
Hector Rene Garcia R.A., Partner
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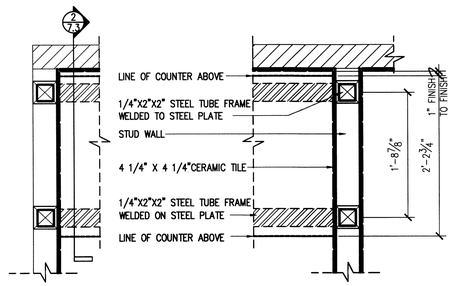
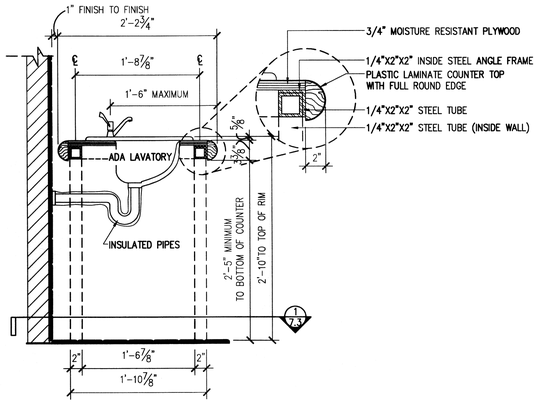
HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

SHEET: 7.2

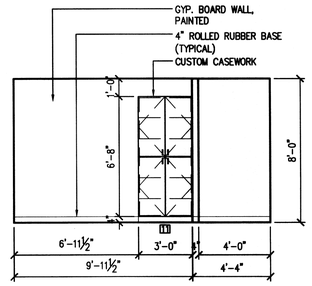


* GENERAL CONTRACTOR WILL NEED TO ORDER STEEL TUBE FRAMING EARLY IN THE CONSTRUCTION TIMELINE IN ORDER TO INSTALL FRAME AS STUDS ARE BEING LAID

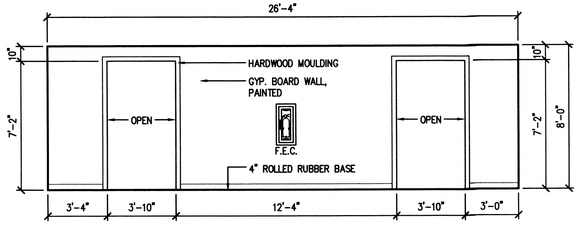
1 LAVATORY PLAN
SCALE: 1" = 1'-0"



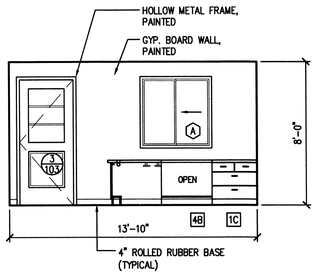
2 LAVATORY SECTION
SCALE: 1" = 1'-0"



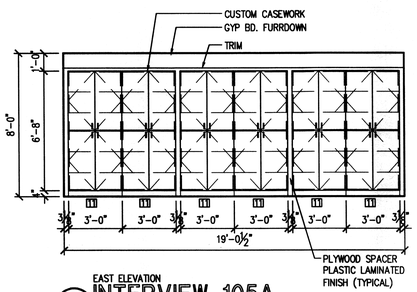
EAST ELEVATION
3 RECEPTION 103
SCALE: 1/4"=1'-0"



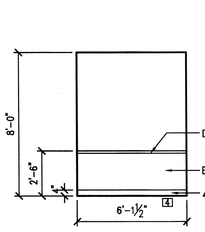
SOUTH ELEVATION
4 RECEPTION 103
SCALE: 1/4"=1'-0"



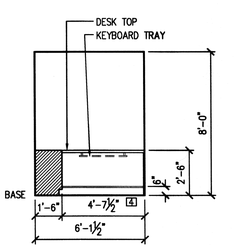
NORTH ELEVATION
5 RECEPTION 103
SCALE: 1/4"=1'-0"



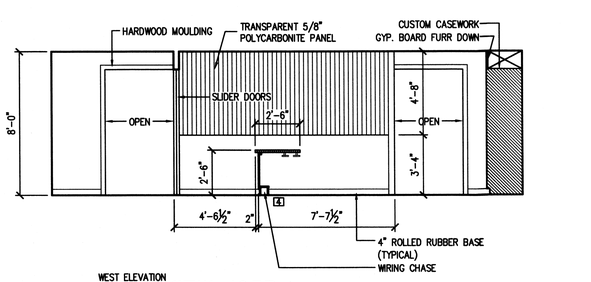
EAST ELEVATION
6 INTERVIEW 105A
SCALE: 1/4"=1'-0"



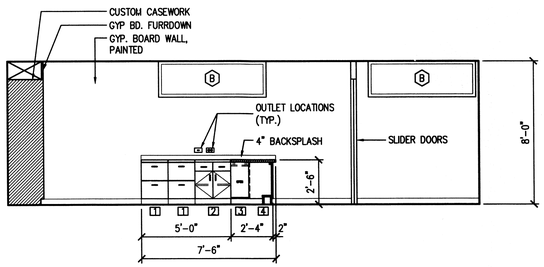
EAST ELEVATION
7 INTERVIEW 105B
SCALE: 1/4"=1'-0"



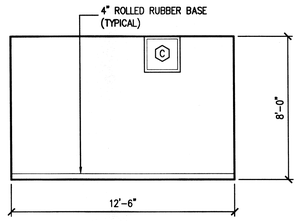
WEST ELEVATION
8 INTERVIEW 105B
SCALE: 1/4"=1'-0"



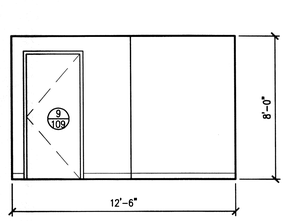
WEST ELEVATION
9 INTERVIEW 105B
SCALE: 1/4"=1'-0"



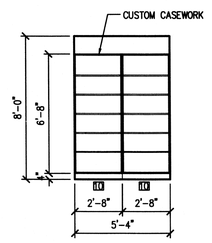
SOUTH ELEVATION
10 INTERVIEW 105B
SCALE: 1/4"=1'-0"



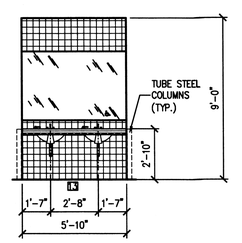
SOUTH ELEVATION
11 STORAGE 109
SCALE: 1/4"=1'-0"



NORTH ELEVATION
12 STORAGE 109
SCALE: 1/4"=1'-0"



SOUTH ELEVATION
13 JANITOR 110
SCALE: 1/4"=1'-0"



EAST & WEST ELEVATION
14 WOMEN 111A & MEN 111B
SCALE: 1/4"=1'-0"

PROJECT #: 201305
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SAN CARLOS
COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

REGISTERED ARCHITECT HECTOR RENE GARCIA STATE OF TEXAS

HECTOR R. GARCIA 13962
LICENSE EXPIRES: 03/31/14

Mata & Garcia ARCHITECTS L.L.P
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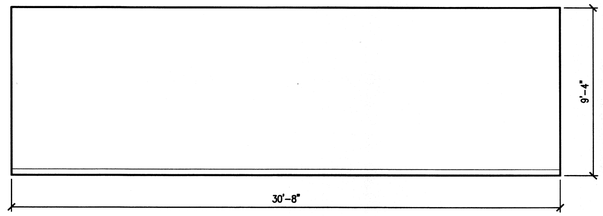
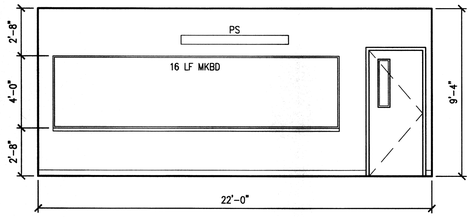
Fax: (956) 631-1988

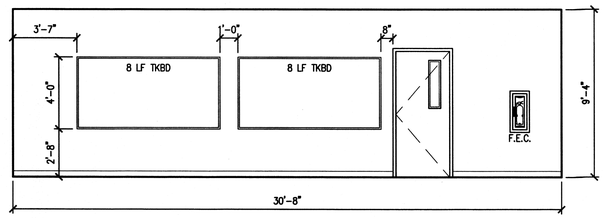
SHEET: 7.3



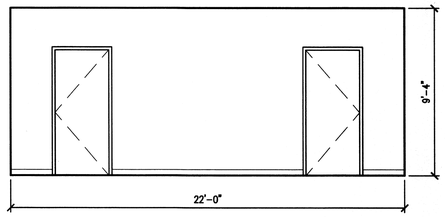
WEST ELEVATION
1 CLASSROOM 112A
SCALE: 1/4"=1'-0"



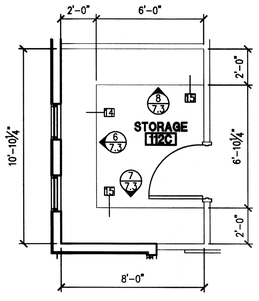
NORTH ELEVATION
2 CLASSROOM 112A
SCALE: 1/4"=1'-0"



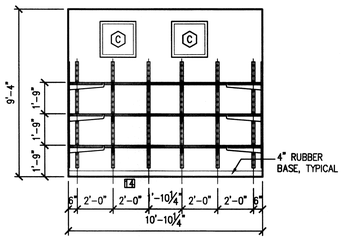
EAST ELEVATION
3 CLASSROOM 112A
SCALE: 1/4"=1'-0"



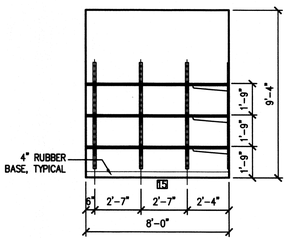
SOUTH ELEVATION
4 CLASSROOM 112A
SCALE: 1/4"=1'-0"



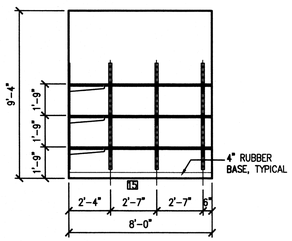
5 STORAGE PLAN 112C
SCALE: 1/4"=1'-0"



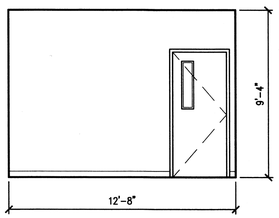
SOUTH ELEVATION
6 STORAGE 112C
SCALE: 1/4"=1'-0"



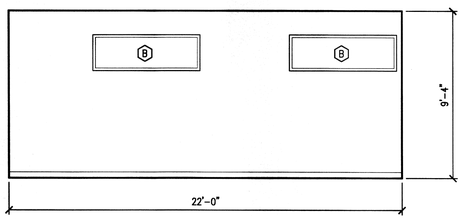
EAST ELEVATION
7 STORAGE 112C
SCALE: 1/4"=1'-0"



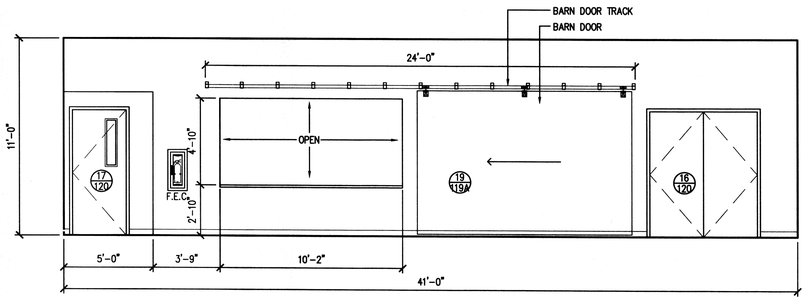
WEST ELEVATION
8 STORAGE 112C
SCALE: 1/4"=1'-0"



WEST ELEVATION
9 COMPUTER LAB 113
SCALE: 1/4"=1'-0"



SOUTH ELEVATION
10 COMPUTER LAB 113
SCALE: 1/4"=1'-0"



WEST ELEVATION
11 MULTI-PURPOSE 119B
SCALE: 1/4"=1'-0"

PROJECT #: 201305
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SAN CARLOS COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
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REGISTERED ARCHITECT HECTOR RENE GARCIA STATE OF TEXAS
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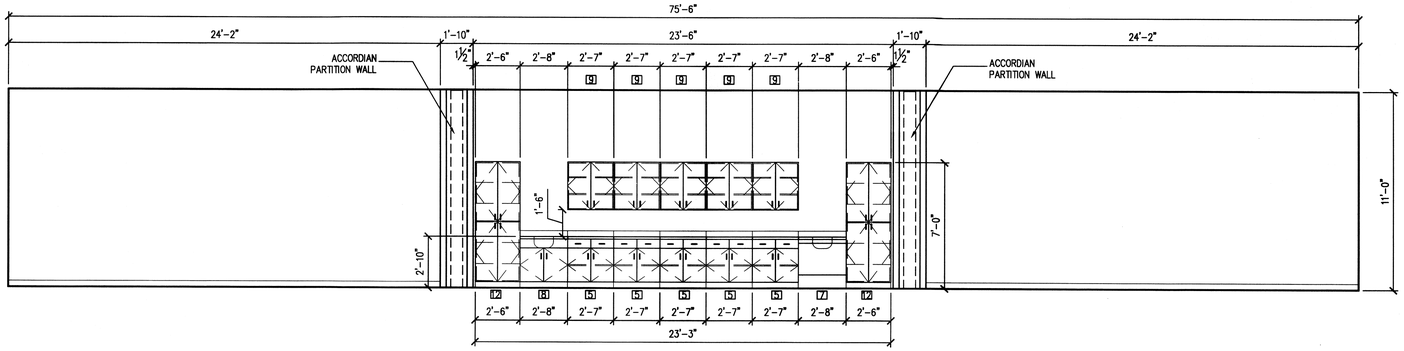
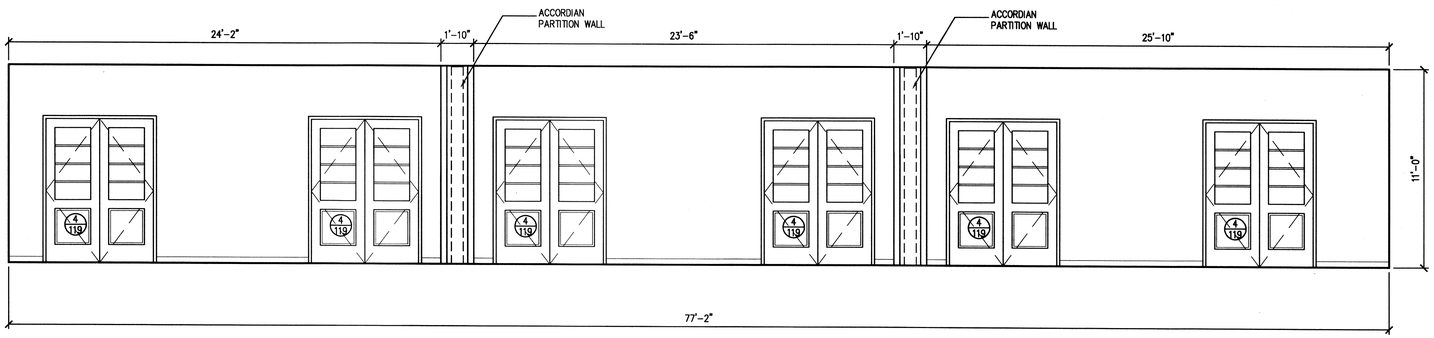
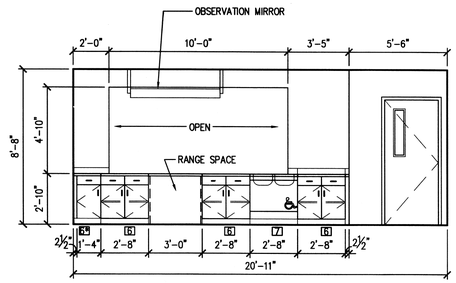
SHEET: 7.4



WEST ELEVATION
1 MULTI-PURPOSE 119B
SCALE: 1/4"=1'-0"



WEST ELEVATION
2 MULTI-PURPOSE 119B
SCALE: 1/4"=1'-0"



NORTH ELEVATION
3 KITCHEN 120
SCALE: 1/4"=1'-0"

PROJECT #: 201305
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7.5

GENERAL LEGEND

MECHANICAL

GENERAL MECHANICAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION EFFORTS. PROVIDE ALL NECESSARY OFFSETS AND FITTINGS AS REQUIRED BY FIELD CONDITIONS.

B. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER AND/OR OWNER.

C. THE CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE SHALL INFORM THE OWNER PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND REWORK SHALL BE AT CONTRACTOR'S EXPENSE.

D. CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK TIGHT WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

E. CONTRACTOR SHALL INSTALL ALL EXHAUST SYSTEMS, INCLUDING FANS AND EXHAUST DUCTS. PROVIDE COMPLETE NEW SYSTEMS AS INDICATED.

F. CONTRACTOR SHALL PROVIDE ALL CEILING DIFFUSERS AS SHOWN. CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCT WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL SHOWN IN THESE PLANS. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

G. CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

H. ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 6000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES.

I. ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH OWNER-APPROVED PATCHING MATERIALS. ALL REFINISHING SHALL BE APPROVED BY THE OWNER.

J. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.

K. CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SPLITTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

L. MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL UNLESS NOTED OTHERWISE THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL COORDINATE THE FINAL LOCATION OF EACH THERMOSTAT WITH THE ROOM FINISHES AND USES. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT INSTALLATION.

M. CONTRACTOR SHALL COORDINATE THE FINAL LOCATIONS OF ALL CEILING DIFFUSERS WITH LIGHTING INSTALLATIONS AND ARCHITECTURAL REFLECTED CEILING PLANS. MOVE THE DIFFUSER LOCATIONS IF REQUIRED TO AVOID OBSTRUCTIONS FROM DUCTWORK AND LIGHT FIXTURES. COORDINATE RELOCATION WITH ENGINEER.

N. VERIFY THE LOCATION OF ALL WALLS, PARTITIONS, DOORS, CABINETS, AND CEILINGS FROM ACTUAL FIELD MEASUREMENTS.

O. PROVIDE SMOKE DETECTOR AND SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED, INSTALLED AND WIRED FOR SHUT DOWN BY DIVISION 16. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

P. CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

Q. ALL PIPING SHALL BE INSULATED WITH FLEXIBLE ELASTOMERIC AND JACKETED WITH ALUMINUM. REFER TO THE SPECIFICATIONS.

ELECTRICAL

GENERAL ELECTRICAL SITE NOTES:

A. ELECTRICAL CONTRACTOR SHALL CONTACT UTILITY COMPANY SERVICE REPRESENTATIVE AND COORDINATE SERVICE INSTALLATION PRIOR TO COMMENCING WORK.

B. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER ALL FEES AND CONSTRUCTION COSTS CHARGED BY THE POWER, TELEPHONE AND CABLE UTILITY PROVIDERS FOR MAIN LINE EXTENSIONS OF SERVICE FOR A NEW INSTALLATION.

C. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL POWER, TELEPHONE AND CABLE TO THE NEW FACILITY.

D. ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUIT, CONDUCTORS AND CABLES AS SPECIFIED. REFER TO SPECIFICATION SECTIONS FOR REQUIREMENTS.

GENERAL ELECTRICAL LIGHTING NOTES:

A. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS (RCP) FOR EXACT LOCATION OF LIGHT FIXTURES. FURNISH FIXTURES WITH TRIM COMPATIBLE WITH THE TYPE OF CEILING AS INDICATED IN RCP.

B. CONNECT EXIT/EMERGENCY LIGHTS AND EMERGENCY BALLASTS IN EMERGENCY LIGHTS IN EACH SPACE TO UNSWITCHED HOT LEGS OF THE LOCAL LIGHTING CIRCUIT

C. COORDINATE PLACEMENT OF LIGHT FIXTURE WITH ACTUAL INSTALLATION OF MECHANICAL EQUIPMENT AND DUCTWORK.

D. COORDINATE LOCATIONS OF ALL WIRING SWITCHES AND MOUNTING HEIGHTS WITH OWNERS DRAWINGS PRIOR TO ROUGH IN.

E. COORDINATE INSTALLATION OF CONDUIT WITH OTHER TRADES PRIOR TO ROUGH-IN.

GENERAL ELECTRICAL POWER NOTES:

A. DIMENSIONS INDICATED ARE TO BE VERIFIED AND ADJUSTED AS REQUIRED BY EQUIPMENT AND/OR FIELD CONDITIONS.

PLUMBING

GENERAL PLUMBING NOTES:

A. COORDINATE EXACT LOCATION OF ALL FLOOR DRAINS WITH MECHANICAL EQUIPMENT LOCATION AND CONDENSATE DRAIN REQUIREMENTS PRIOR TO ANY INSTALLATION.

B. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE PROVIDED WITH TRAP PRIMER CONNECTION.

C. PLUMBING CONTRACTOR SHALL ADHERE TO ALL CITY CODES AND OTHER STATE CODES AND LOCAL CODES THAT HAVE AUTHORITY OVER THIS PROJECT.

D. PLUMBING CONTRACTOR SHALL EXTEND ALL CONDENSATE AND INDIRECT DRAINS FROM EQUIPMENT TO FLOOR DRAINS.

E. PLUMBING CONTRACTOR SHALL TERMINATE ALL WATER ROUGH-IN WITH SHUT-OFF VALVES BEFORE CONNECTING TO EQUIPMENT AND RELATED FIXTURES.

F. PLUMBING CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY INSTALLATION OF PIPING AND DUCTWORK PRIOR TO BEGINNING OF CONSTRUCTION.

G. INSULATE "P" TRAPS AND SUPPLIES AT HANDICAP LAVATORIES WITH INSULATION KIT.

H. PROVIDE VACUUM BREAKER TO ALL FIXTURES WITH HOSE CONNECTION AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.

I. REFER TO OWNERS DRAWINGS FOR MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES.

J. ALL VENTS THROUGH ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE ROOF. ALL VENTS SHALL BE MINIMUM OF 10' AWAY FROM ANY OUTSIDE AIR INTAKE.

K. PROVIDE CEILING ACCESS PANEL FOR WATER ISOLATION VALVES, WATER HAMMER ARRESTORS AND TRAP PRIMER VALVES IN OTHERWISE INACCESSIBLE AREAS.

SPECIAL SYSTEMS

GENERAL SPECIAL SYSTEMS NOTES:

A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH MILLWORK. ALL INSTALLATIONS SHALL COMPLY WITH ADA REQUIREMENTS.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL REQUIREMENTS BEFORE ANY ROUGH-IN IN ORDER TO COORDINATE MANUFACTURER'S DRAWINGS FOR EQUIPMENT LOCATION AND INSTALLATION ACCESSORIES.

C. COORDINATE RUNS FOR CONDUIT UP IN JOIST AND FOR SUSPENDING REQUIREMENTS IN ACCORDANCE WITH STRUCTURAL PLANS.

D. FURNISH DUCT SMOKE DETECTOR FOR RETURN DUCT. COORDINATE EXACT LOCATION IN ACCORDANCE MECHANICAL DRAWINGS.

E. ALL CABLES ABOVE CEILING SHALL BE PLENUM RATED.

F. SEAL PENETRATION WITH FIRE PROOF SEALANT UL LISTED FOR FIRE WALLS. BOTH ENDS SHALL BE CHAMFERED FOR A NON SHARP EDGES.

G. ALL DATA-CONDUITS SHALL STUB-UP, ACCESSIBLE, ABOVE LAY-IN CEILING.

H. CONDUITS SHALL BE REAMED AND COMPLETED WITH CONNECTORS AND INSULATED BUSHINGS AT BOTH ENDS.

I. BETWEEN ANY TWO PULL POINTS THERE SHALL BE NO CONDUIT WITH GREATER THAN 180 DEGREES OF BENDS OR EQUIVALENT.

J. WHERE CONDUIT LENGTH EXCEEDS 100FT AND/OR TWO 90 DEGREE BENDS OR EQUIVALENT PROVIDE PULL BOXES AS REQUIRED.

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PROJECT : COMMUNITY RESOURCE CENTER
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

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09-30-2013

STATE OF TEXAS — JOSE ANTONIO NICANOR — 108783 — LICENSED PROFESSIONAL ENGINEER
09-30-2013

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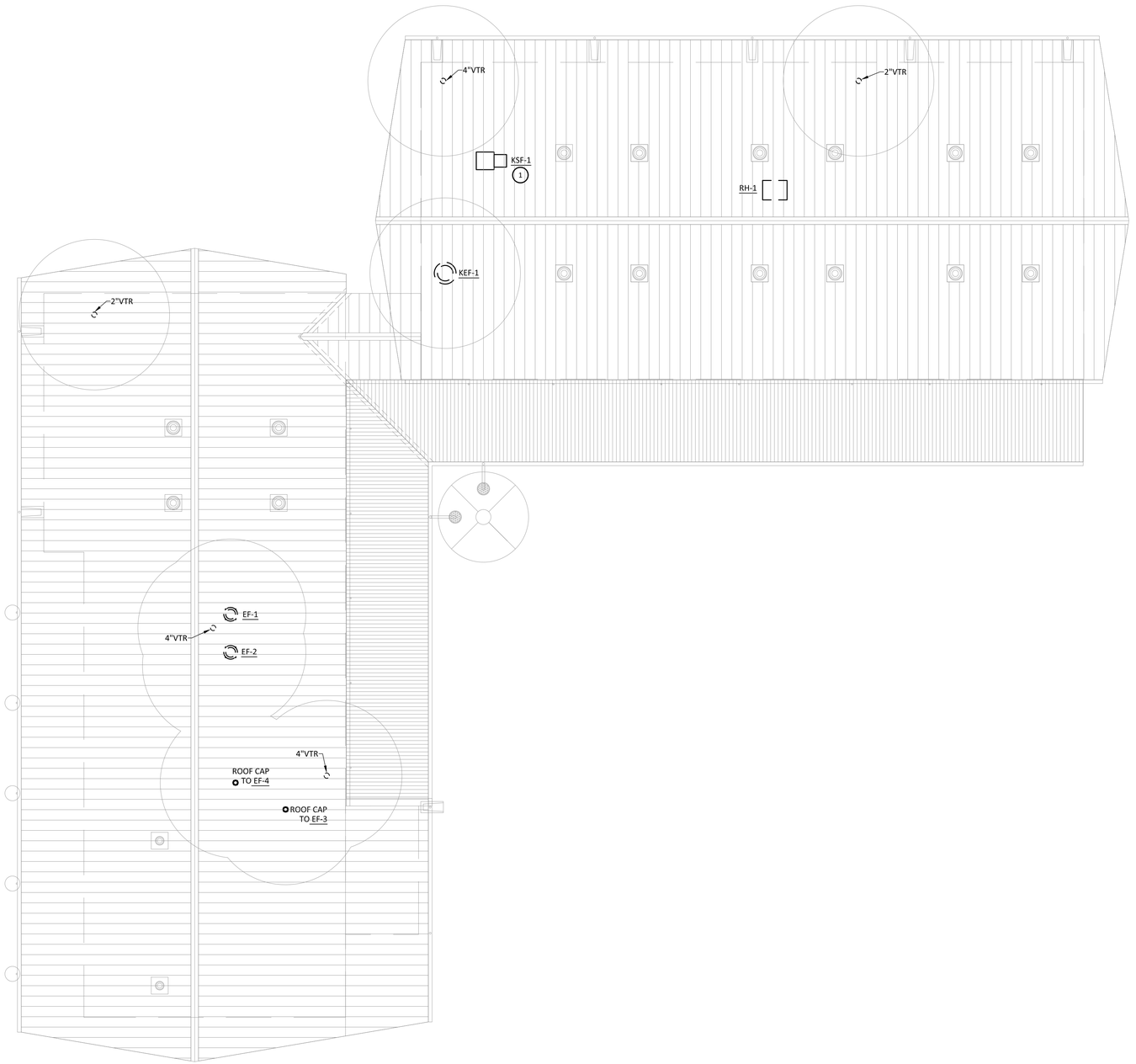
SHEET: MEP-1.0



1 MEP ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. KSF-1 AIR INTAKE SHALL BE NO LESS THAN 10' AWAY FROM ANY EXHAUST FAN AND/OR VENT THRU ROOF.

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STATE OF TEXAS — J. GABRIEL HINOJOSA — 96585 — LICENSED PROFESSIONAL ENGINEER
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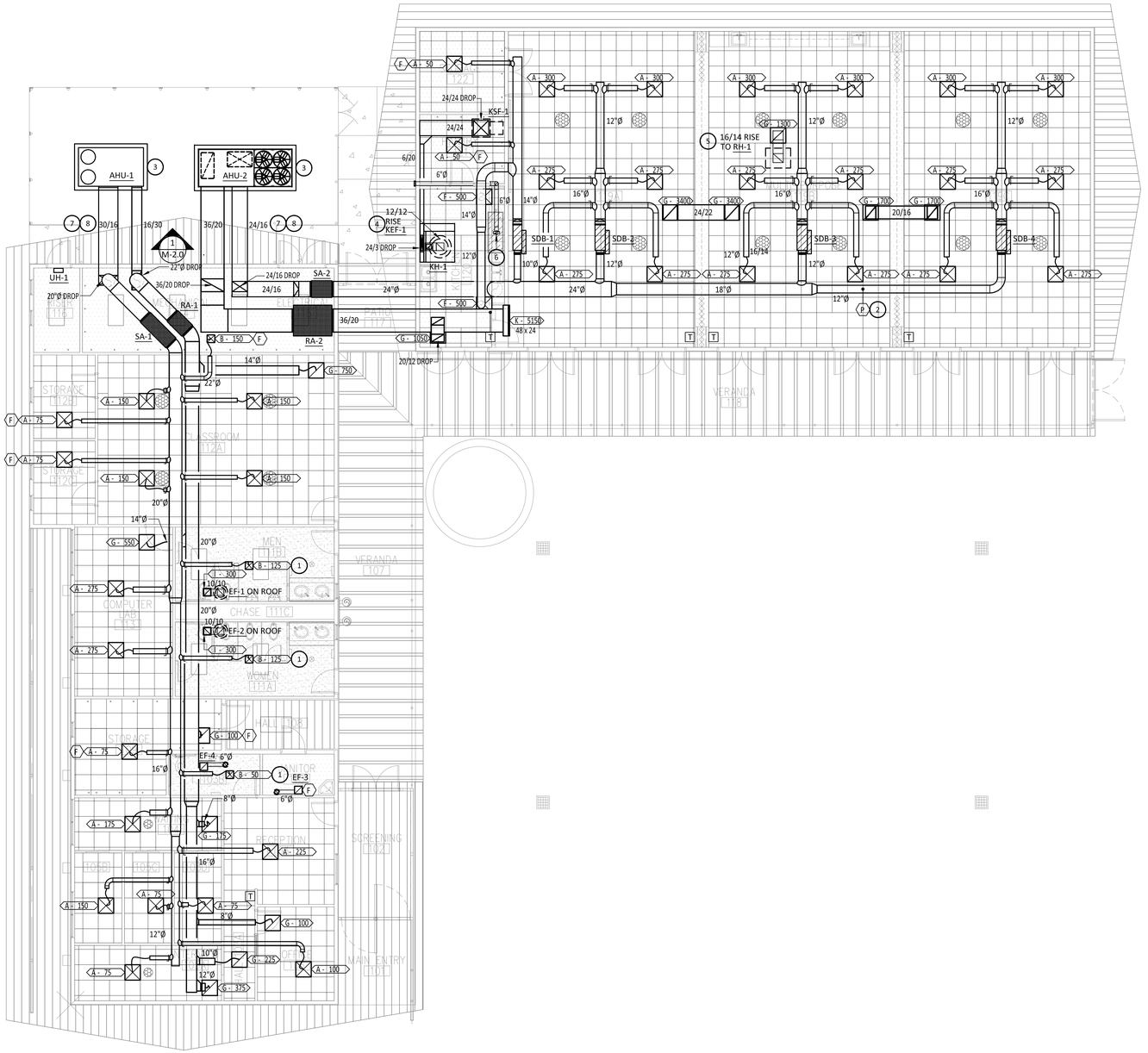

1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

N

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
2. AIR HANDLING UNITS SHALL FUNCTION WITH STAND ALONE CONTROLS. CONTRACTOR SHALL FURNISH AND INSTALL CONTROL WIRING AND TUBING IN 1" CONDUIT FROM AIR HANDLING UNIT TO NECESSARY CONTROL SENSORS IN BUILDING. AT MINIMUM, CONDUIT SHALL PROTECT CONTROL WIRING FOR RELATIVE HUMIDITY SENSOR AND CO2 SENSOR AND TUBING FOR DUCT STATIC PRESSURE SENSOR. WIRING AND TUBING SHALL BE OF SIZE RECOMMENDED BY UNIT MANUFACTURER.

KEY NOTES:

1. PROVIDE AND INSTALL CABLE OPERATED BALANCING DAMPER EQUAL TO ROTO-TWIST MODEL RT-150. EXTEND CABLE TO SUPPLY AIR DEVICE AND TERMINATE.
2. DUCT MOUNTED STATIC PRESSURE SENSOR.
3. FURNISH AND INSTALL 6" HIGH HOUSE KEEPING PAD FOR AHU. CONCRETE PAD SHALL EXTEND 6 INCHES BEYOND EVERY AHU EDGE.
4. GREASE DUCT BETWEEN KITCHEN HOOD AND EXHAUST FAN SHALL COMPLY WITH NFPA 96, TYPE 304 STAINLESS STEEL, NO. 2D FINISH, WELDED SEAMS AND JOINTS, 4" W.G. PRESSURE CLASS, SMACNA LEAKAGE CLASS 3, WRAPPED WITH FIRE-RATED BLANKET INSULATION THICK ENOUGH TO ACHIEVE A 2-HOUR FIRE RATING.
5. INSTALL ALUMINUM COUNTER BALANCED BACK DRAFT DAMPER IN VERTICAL RISE TO RELIEF HOOD. DAMPER SHALL BE EQUAL TO RUSKIN MODEL "CBD6." SET COUNTER BALANCE WEIGHTS TO RELIEVE AIR AT 0.05" w.g.
6. INSTALL EXHAUST DUCT PER ELECTRIC COOK-TOP MANUFACTURER INSTALLATION INSTRUCTIONS. NO FLEXIBLE DUCT MAY BE USED IN EXHAUST DUCT. EXHAUST DUCT SHALL BE RUN ALONG BASE OF MILLWORK AND RISE IN WALL AS SHOWN. COORDINATE WITH WALL STUDS; NO MORE THAN THREE 90° ELBOWS SHALL BE USED FOR THE ENTIRE RUN OF EXHAUST DUCT. TERMINATE WITH ROUND DUCT WALL CAP WITH BACK DRAFT DAMPER EQUAL TO LOREN COOK WCR6-ALUM.
7. ALL EXTERIOR DUCTWORK SHALL BE SINGLE WALL WITH 3" RIGID BOARD INSULATION ENCAPSULATED WITH FLEX CLAD 400. PROVIDE MECHANICAL SLEEVE SEALS AND ESCUTCHEONS ON EXTERIOR WALL PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL PENETRATION DETAILS.
8. COORDINATE AHU EQUIPMENT SUPPLY AND RETURN CONNECTIONS, HOUSEKEEPING PAD, CURBS, VIBRATION ISOLATION DEVICES, AND DUCTWORK PRIOR TO COMMENCEMENT OF WORK. NO 90° ELBOWS OR OFFSETS SHALL BE ALLOWED. EXTERIOR DUCTS SHALL RUN STRAIGHT FROM THE AHUS TO THE BUILDING.

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COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS · J. GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER · 09.30.2013

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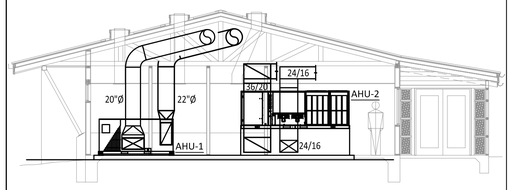

1 AHU DUCT PENETRATION AND RISE ELEVATION
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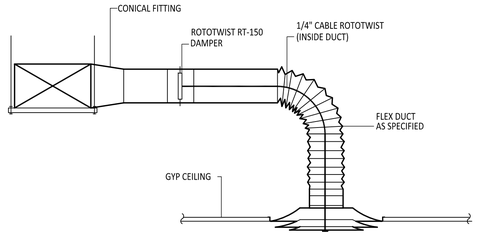

2 REMOTE CABLE OPERATED DAMPER
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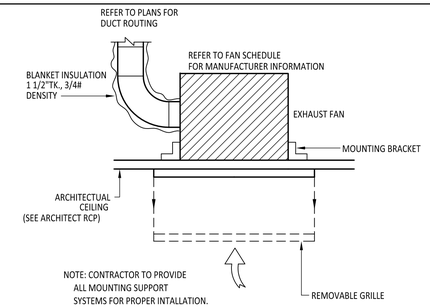

3 CEILING MOUNTED EXHAUST FAN
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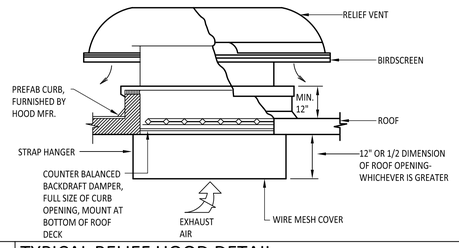

4 TYPICAL RELIEF HOOD DETAIL
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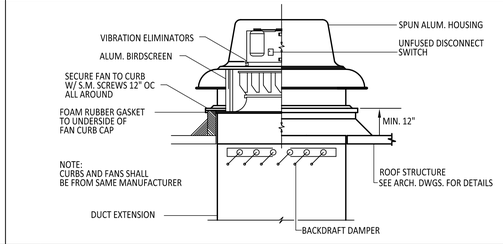

5 ROOF MOUNTED CENTRIFUGAL EXHAUST FAN
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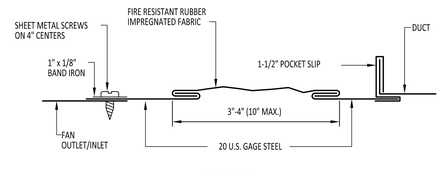

6 FLEXIBLE CONNECTION DETAIL
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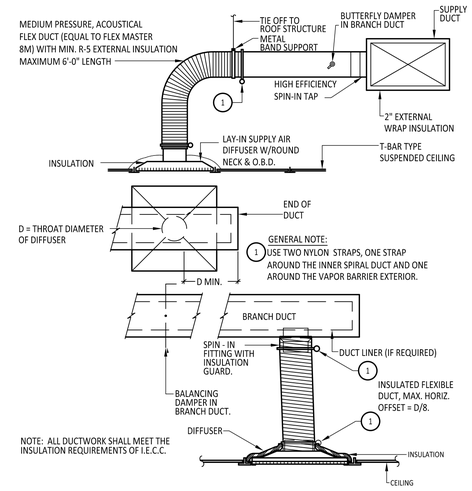

7 SUPPLY AIR DIFFUSER
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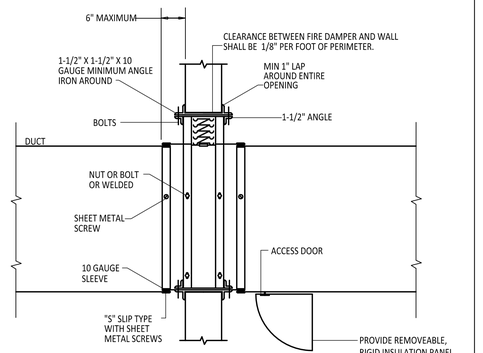

8 FUSIBLE LINK FIRE DAMPER
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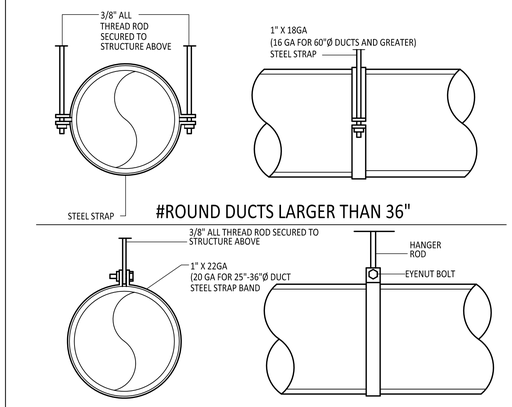

9 EXPOSED AND CONCEALED ROUND DUCT HANGER
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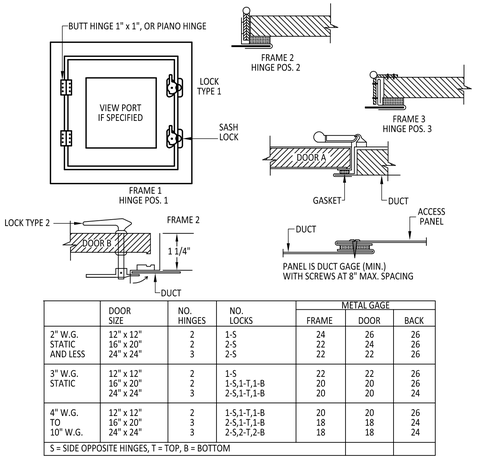

	DOOR SIZE	NO. HINGES	NO. LOCKS	METAL GAGE FRAME	DOOR	BACK
2" W.G. STATIC AND LESS	12" x 12"	2	1-S	24	26	26
	16" x 20"	2	2-S	22	24	26
	24" x 24"	3	2-S	22	22	26
3" W.G. STATIC	12" x 12"	2	1-S	22	22	26
	16" x 20"	2	1-S,1-T,1-B	20	20	26
	24" x 24"	3	2-S,1-T,1-B	20	20	24
4" W.G. TO 10" W.G.	12" x 12"	2	1-S,1-T,1-B	20	20	26
	16" x 20"	3	2-S,1-T,1-B	18	18	24
	24" x 24"	3	2-S,2-T,2-B	18	18	24
S = SIDE OPPOSITE HINGES, T = TOP, B = BOTTOM						

10 DUCT ACCESS DOOR DETAIL
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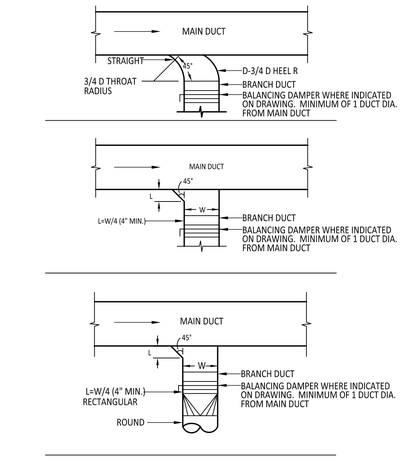

11 TYPICAL BRANCH CONNECTION
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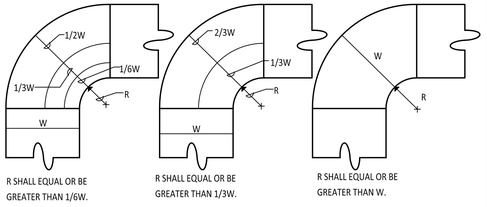

12 RADIUS DUCT ELBOW DETAIL
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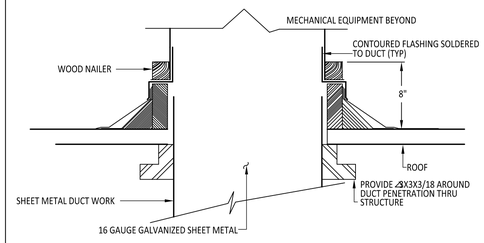

13 DUCT ROOF PENETRATION
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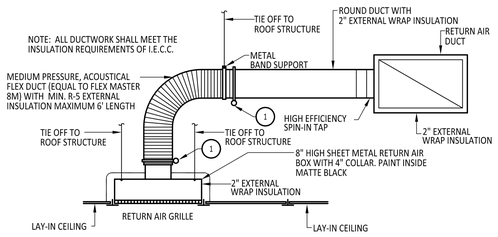

14 RETURN AIR GRILLE BOX CONNECTION
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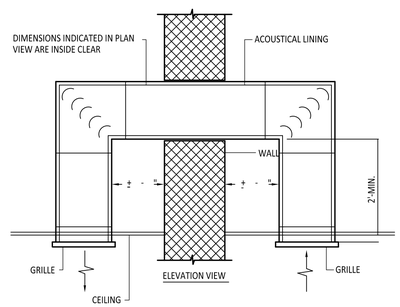

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15 TRANSFER DUCT DETAIL
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HOOD INFORMATION – Job#1868846

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S) TOTAL EXH CFM	WIDTH	LENG.	DIA.	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	HOOD CONFIG. ROW
1		4824 ND-2-BR	4' 0.00"	450 Deg.	700	8"	8"		700	-0.500"	560	18 GA SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	LIGHT(S) QTY.	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		Captrate Solo Filter	3	16"	16"	2	Incandescent	NO	Left					YES	422 LBS

HOOD OPTIONS

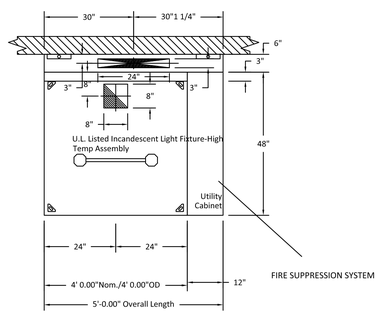
HOOD NO.	TAG	OPTION
1		RIGHT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High
		LEFT QUARTER END PANEL 23" Top Width, 0" Bottom Width, 23" High

BACK RETURN(S)

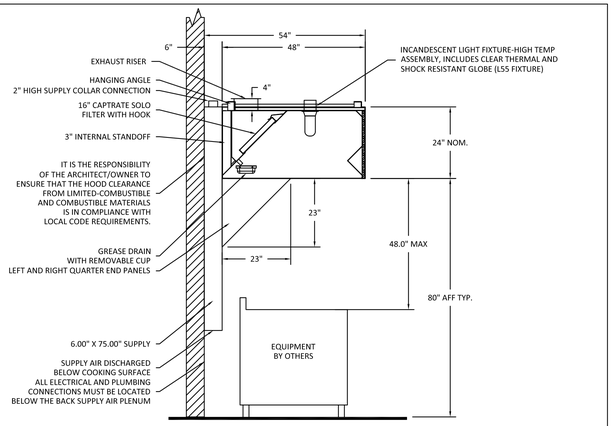
HOOD NO.	TAG	WIDTH	LENGTH	CHEESE MELTER SUPPORTS	TOTAL SUPPLY CFM	BOOT(S) WIDTH	LENGTH	ANGLE	CFM	S.P.
						3"	24"	Straight	560	0.065"

SAMPLE OF A CAPTIVE AIRE PROVIDED FIRE SUPPRESSION SYSTEM IN CABINET AT END OF HOOD

KITCHEN HOOD MANUFACTURER SHALL PROVIDE MOTOR STARTERS FOR BOTH SUPPLY AND EXHAUST FANS. MOTOR STARTERS SHALL BE MOUNTED INSIDE THE UTILITY BOX AND PRE-WIRED AT THE FACTORY. THE HOOD SHALL HAVE TWO TOGGLE SWITCHES MOUNTED ON THE FRONT. ONE SWITCH SHALL CONTROL LIGHT AND THE OTHER SHALL CONTROL THE VENTILATION FANS. THE SUPPLY FAN SHALL BE INTERLOCKED WITH THE EXHAUST FAN. WIRING BETWEEN FANS AND MOTOR STARTERS SHALL BE DONE BY ELECTRICAL CONTRACTOR.



PLAN VIEW – Hood #1
4' 0.00" LONG 4824ND–2–BR



SECTION VIEW – MODEL 4824ND–2–BR
HOOD – #1

SPECIFICATION: CAPTRATE GREASE-STOP SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE 5-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS CONSTRUCTED OF 430 STAINLESS STEEL, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 90% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

FILTER INFORMATION – CAPTRATE GREASE–STOP SOLO

NOMINAL SIZE (H x W)	ACTUAL DIMENSIONS (H x W x D)	FREE AREA (SQ. FEET)	WEIGHT (POUNDS)	VELOCITY (FEET PER MINUTE)	STATIC PRESSURE (WATER GAUGE)
20 x 20	19-5/8" x 19-5/8" x 2-7/8"	2.28	11	100	0.25
20 x 16	15-5/8" x 19-5/8" x 2-7/8"	1.78	8.9	125	0.35
16 x 20	15-5/8" x 19-5/8" x 2-7/8"	1.78	9.1	150	0.45
16 x 16	15-5/8" x 15-5/8" x 2-7/8"	1.39	7.4	175	0.75

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH

NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)

1 KH-1 DETAILS
SCALE: N.T.S.

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: G.H.

REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS · J. GABRIEL HINOJOSA · 96585 · LICENSED PROFESSIONAL ENGINEER
09.30.2013

Mata & Garcia ARCHITECTS L.L.P
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SHEET: M – 2.1

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PACKAGED DX UNIT SCHEDULE

MARK	MANUF.	MODEL	NOTES	LXWXH (IN)	WEIGHT (LB)	AMBIENT DB/WB (°F)	IEER	EER	SUPPLY FAN TYPE	FAN AIRFLOW (CFM)	FAN VAV MIN (CFM)	FAN RPM	FAN BHP	FAN E.S.P. (IN H20)	FAN T.S.P. (IN H20)	MOTOR POWER (HP)	MOTOR RPM	MOTOR DRIVE	MOTOR CONTROL	DX COIL TOTAL CAPACITY (BTU/HR)	DX COIL SENSIBLE CAPACITY (BTU/HR)	DX COIL EAT DB/WB °F	DX COIL LAT DB/WB °F	DX COIL ROWS (MIN)	DX COIL FPI (MAX)	DX COIL MIN COOLING STAGES	ELECTRIC HEAT EAT(°F) DB	ELECTRIC HEAT LAT(°F) DB	ELECTRIC HEAT HEAT CFM	ELECTRIC HEAT KW	ELECTRIC HEAT STAGES	VENTILATION & FILTER OUTSIDE AIR MAX/MIN CFM	VENTILATION & FILTER FILTER TYPE PLEATED	VENTILATION & FILTER DEPTH (IN)	VENTILATION & FILTER EFF, (%)	POWER VOLTAGE	POWER MCA	POWER MOCP
AHU-1	LENNOX	LCA092H4B	1 TO 8	47X61X102	1205	99/77	12.9	12.7	FC	2,700	NA	884	1.4	1.00	1.28	2	1750	BELT	CV	86,370	65,600	78.4/65.1	55.3/54.1	4	14	2	65	85	2700	23	2	400/400	MERV 7	2	30	208/3/60	69	70
AHU-2	MCQUAY	MPS020G	1 TO 12	55X74X205	3025	99/77	11.2	10	SWSI AF	6,200	2730	1410	3.7	1.25	1.97	5	1750	BELT	VAV	245,817	174,820	79.3/66.1	53.4/52.9	6	12	4	NA	NA	NA	NA	NA	1300/250	MERV 7	2	30	208/3/60	116.3	150

NOTES:

1. SINGLE POINT POWER WITH INTEGRAL, NON-FUSED, DISCONNECT.
2. HINGED ACCESS DOORS WITH QUARTER-TURN LATCHES.
3. GROUND MOUNTED UINT WITH HORIZONTAL SUPPLY AND RETURN OPENINGS (SIDE DISCHARGE CURBS ARE ACCEPTABLE)
4. PROVIDE MODULATING OUTSIDE AIR DAMPER WITH HOOD AND CONDENSER COIL HAIL GUARDS.
5. PROVIDE 5-YEAR COMPRESSOR WARRANTY.
6. FACTORY MOUNTED UNIT MICROPROCESSOR CONTROLLER WITH KEYPAD AND DIGITAL TEXT DISPLAY FOR UNIT DIAGNOSTICS.
7. MODULATING HOT GAS REHEAT COIL (STAGED IS ACCEPTABLE FOR AHU-1).
8. PROVIDE SPACE TEMPERATURE AND SPACE RH SENSORS FOR STAND-ALONE UNIT OPERATION.
9. PROVIDE SPACE CO2 SENSORS FOR STAND-ALONE DEMAND CONTROL VENTILATION (FOR AHU-2).
10. STAND-ALONE MULTI-ZONE VAV UNIT WITH DISCHARGE AIR CONTROL SEQUENCE. UNIT TO MAINTAIN DISCHARGE TEMP. OF 55 °F AND MODULATE FAN SPEED TO MAINTAIN DUCT STATIC PRESSURE SETPOINT.
11. DOUBLE WALL CONSTRUCTION WITH R-7 INSULATION AND STAINLESS STEEL DRAIN PANS.
12. FACTORY MOUNTED VFD.

MECHANICAL GENERAL LEGEND DUCTWORK SYMBOLS

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ACCESS DOOR	AD	AD
BACKDRAFT DAMPER	BDD	BDD
FIRE DAMPER	(F)	(F)
FLEXIBLE CONNECTION	FC	FC
MOTORIZED DAMPER	M	M
CONTROL DAMPER	CD M	CD M
VOLUME DAMPER, MANUAL	VD	VD
DUCT ELBOW WITH TURNING VANES		
DUCT SECTION - SUPPLY AIR		
DUCT SECTION - EXHAUST AIR		
DUCT SECTION - RETURN, OUTSIDE, OR RELIEF AIR		
DUCT, INCLINED DROP		
DUCT, INCLINED RISE		
FLEXIBLE DUCT - ROUND	8"Ø	
DUCT TRANSITION	14/10 — 10/10	14/10 — 10/10
DUCT TRANSITION (SQUARE OR RECTANGULAR TO ROUND)	10/10 — 8"Ø	12/12 — 8"Ø
RECTANGULAR DUCT, SIZE IN INCHES, FIRST DIMENSION IS SIDE SHOWN (NET CLEAR INSIDE DIMENSION)	10/14	10/14

DESCRIPTION	SINGLE LINE	DOUBLE LINE
ROUND DUCT, DIAMETER IN INCHES (NET CLEAR INSIDE DIMENSION)	8"Ø	8"Ø
AIR FLOW IN DIRECTION OF ARROW		
45° BRANCH TAKE-OFFS		
CONICAL LATERAL BRANCH TAKE-OFFS		
CEILING SUPPLY DIFFUSERS		
DIRECTION SUPPLY GRILLE, HATCH INDICATES BLOCKED QUADRANT		
CEILING RETURN GRILLE/REGISTER		
CEILING EXHAUST FAN (EF-_)		EF-_
CEILING EXHAUST GRILLE/REGISTER		
SIDEWALL SUPPLY GRILLE/REGISTER		
SIDEWALL RETURN/EXHAUST GRILLE/REGISTER		
EXTRACTOR		
DUCT TEE WITH SPLITTER DAMPER		
DOOR UNDERCUT	UC	UC
DOOR LOUVER	L	L

MISCELLANEOUS SYMBOLS

- (P) DUCT STATIC PRESSURE SENSOR
- SD DUCT SMOKE DETECTOR
- CO_2 CARBON DIOXIDE SENSOR
- NEW CONNECTION TO EXISTING
- (H) HUMIDISTAT
- RH RELATIVE HUMIDITY SENSOR
- T THERMOSTAT OR TEMPERATURE SENSOR (MOUNT 48" AFF)
- T DUCT TEMPERATURE SENSOR
- TC TIME CLOCK
- F FREEZESTAT

- DIFFUSER, GRILLE OR REGISTER MARK
- A - 200 / 12 X 8 — AIR FLOW (CFM); RECTANGULAR FACE SIZE (WHERE APPLICABLE)
- 01 / M2.01 — DIRECTION OF SECTION; IDENTIFYING NUMBER OR LETTER FOR SECTIONS; NUMBER OF REFERENCE DRAWING WHERE SECTION IS SHOWN.
- 01 / M2.01 — IDENTIFYING NUMBER OR LETTER FOR DETAILS; NUMBER OF REFERENCE DRAWING WHERE DETAIL IS SHOWN.
- ENLARGED DETAIL REFERENCE
- MATCHLINE
- LINE WITH HATCHING DESIGNATES DEMOLITION WORK

UNIT HEATER SCHEDULE

MARK	MANUF.	MODEL	SERVES	ELECTRIC HEAT KW	ELECTRIC HEAT STAGES	ELECTRICAL VOLTS/Ø/HZ.	ELECTRICAL AMPS	ELECTRICAL CONTROL VOLTAGE	PERFORMANCE TEMP. RISE (°F)	PERFORMANCE AIR THROW	PERFORMANCE CFM	REC MOUNTING HEIGHT	APPROX. WEIGHT (LBS.)	NOTES
UH-1	REDD-I	F2F5103N	FIRE RISER	3.3	1	208/3/60	15.9	208	26	12'	400	9'	25	ALL

NOTES:

1. INTEGRAL DISCONNECT SWITCH.
2. UNIT-MOUNTED THERMOSTAT.
3. OVERHEAT PROTECTION, AUTOMATIC RESET TYPE.
4. HORIZONTAL DISCHARGE CONFIGURATION.
5. WALL/CEILING BRACKET.

SILENCER SCHEDULE

Tag	Qty	Fan System	TYPE (NOTE 1)	Face Dimension W (in)	Face Dimension H (in)	Length (in)	Weight	Flow cfm	Velocity ft/min	Silencer P.D.* in wg	P.D. Incl. System Effects in wg	Dynamic Insertion Loss 63	125	250	500	1000	2000	4000	8000	Vibro-Acoustics Model	Notes
SA-1	1	AHU-1	RD	22	22	60	85	2700	803	0.02	0.06	3	5	10	20	25	22	16	16	RD-UHV-F5-L15941	1
20" ROUND CONNECTION AT BOTH END																					
RA-1	1	AHU-1	RD	24	24	36	71	2700	-675	0.01	0.05	4	3	8	16	19	17	11	9	RD-UHV-F9-L15941	1
22" ROUND CONNECTION AT BOTH END																					
SA-2	1	AHU-2	RD	26	26	36	65	6200	1321	0.07	0.24	2	5	9	13	14	11	9	7	RD-HV-F3-L15941	1
24" ROUND CONNECTION AT BOTH END																					
RA-2	1	AHU-2	EXRD	36(48)	20	60	216	6200	-1240	0.03	0.09	5	4	12	25	38	33	21	16	EXRD-UHV-F9-L15941	1
EXTENDED WIDTH SILENCER: DUCT DIMENSION 36IN X 20IN, OUTSIDE CASING DIMENSION 48IN X 20IN.																					

NOTES:

- LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
- VELOCITY SHOWN IS +(FORWARD FLOW) OR -(REVERSE FLOW) AS DEFINED BY ASTM E477-06A.
- PRESSURE DROP, DYNAMIC INSERTION LOSS AND SELF GENERATED NOISE PER ASTM E477-06A
- MAXIMUM PRESSURE DROP WITH SYSTEM EFFECTS = SILENCER PRESSURE DROP PER ASTM E477-06A + SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.

1. RD=RECTANGULAR DISSIPATIVE
   EXRD=EXTENDED RECTANGULAR DISSIPATIVE

SINGLE DUCT TERMINAL UNIT SCHEDULE

MARK	MFGR	MODEL	BOX SIZE INLET	BOX SIZE OUTLET	COOLING CFM MAX.	COOLING CFM MIN.	STATIC P. INLET	MAX NC LEVELS RAD.	MAX NC LEVELS DISCH.	ELECTRIC HEAT COIL CFM	ELECTRIC HEAT COIL KW	ELECTRIC HEAT COIL VOLT/PH	ELECTRIC HEAT COIL STEPS	NOTES
SDB-1	TITUS	DESV	10" Ø	14 X 12	1100	440	0.5	32	18	550	6	208/3	2	ALL
SDB-2	TITUS	DESV	12" Ø	16 X 15	1700	680	0.5	29	19	850	9	208/3	2	ALL
SDB-3	TITUS	DESV	12" Ø	16 X 15	1700	680	0.5	29	19	850	9	208/3	2	ALL
SDB-4	TITUS	DESV	12" Ø	16 X 15	1700	680	0.5	29	19	850	9	208/3	2	ALL

NOTES:

1. SIZE UNITS ARE GIVEN IN INCHES. PRESSURE UNITS ARE INCHES OF WATER PRESSURE DROP IS IN FEET OF WATER.
2. GENERAL AND SUBCONTRACTORS SHALL VERIFY ALL SPACE REQUIRMENTS PRIOR TO INSTALLATION AND DUCT FABRICATION.
3. UNIT CONTROLLERS SHALL BE SUPPLIED BY CONTROLS CONTRACTOR AND FACTORY MOUNTED BY BOX MANUFACTURER. UNIT SHALL BE 208V INPUT.
4. BOX MANUFACTURER SHALL PROVIDE DDC CONTROLS TRANSFORMER.
5. VERIFY CONTROL BOX LOCATION (RIGHTHAND/LEFTHAND) FROM PLANS.
6. PROVIDE UNIT WITH MOUNTING BRACKETS.
7. PROVIDE UNIT WITH INTEGRAL FUSED DISCONNECT.

EXHAUST FAN SCHEDULE

MARK	CFM	CATEGORY	SERVICE	LOCATION	TYPE	RPM	ESP	HP	DRIVE	VOLTAGE	MAX. SONES	CONTROL	MANUFACTURER	MODEL	NOTES
EF-1	300	EXHAUST	RR	ROOF	CENT. DB.	1427	0.5	1/8	DIRECT	120/1	6.8	LIGHTS	L.COOK	90C15DH	1-3, 5
EF-2	300	EXHAUST	RR	ROOF	CENT. DB.	1427	0.5	1/8	DIRECT	120/1	6.8	LIGHTS	L.COOK	90C15DH	1-3, 5
EF-3	100	EXHAUST	RR	CEILING	CABINET	990	0.375	77.4 WATTS	DIRECT	120/1	2	LIGHTS	COOK	GC-144	1-4
KEF-1	700	EXHAUST	KH-1	ROOF	CENT. UP	1215	0.75	1/3	DIRECT	120/1	7.6	SWITCH	COOK	150VH15D	6
KSF-1	560	SUPPLY	KH-1	ROOF	CENT. DB.	1453	0.5	1/4	DIRECT	120/1	5	SWITCH	COOK	106KSPD	7

NOTES:

1. FAN SHALL HAVE INTEGRAL DISCONNECT SWITCH FROM FACTORY.
2. FAN SHALL BE PROVIDED WITH BACK DRAFT DAMPER.
3. FAN SHALL BE PROVIDED WITH FACTORY MOUNTED FAN SPEED CONTROL.
4. FAN SHALL BE PROVIDED WITH 14"GALVANIZED ROOF CURB AND ROOF CAP.
5. FAN SHALL BE PROVIDED WITH 14"GALVANIZED ROOF CURB WITH DAMPER TRAY.
6. UL/cUL 762 LISTED FOR POWER VENTILATORS FOR RESTAURANT EXHAUST APPLIANCES, NEMA-1 TOGGLE SWITCH JUNCTION BOX MOUNTED & WIRED, 1" INSULATED GALVANIZED CUSTOM PITCH ROOF CURB WITH TRAY, CURB EXTENSION, HINGED BASE, CURB SEAL, HOOD HASPS, GREASE TRAP WITH DRAIN CONNECTION, ALUMINUM BIRSDSCREEN, FAN SPEED CONTROL.
7. MAKE-UP AIR UNIT SHALL BE IRI & ETL LISTED TO ANSI Z83.4 AND CAN 3.7, ALUMINUM MESH WEATHERHOOD FILTER, GRAVITY INLET DAMPER CONTROL, DOWNBLAST DISCHARGE POSITION, NEOPRENE BLOWER ISOLATION, GALVANIZED FACTORY FINISH, 1" INSULATED/GALVANIZED/CUSTOM-PTITCH ROOF CURB, FAN SPEED CONTROL.

GRILLE/DIFFUSER/REGISTER SCHEDULE

MARK	SERVICE	DESCRIPTION	MANUFACTURER MODEL NO.	MAX. NC. LEVEL (1)	REMARKS
A	SUPPLY	24"X24" MODULE SIZE, ALUMINUM, PLAQUE, LAY IN DIFFUSER WITH 4 WAY THROW, ROUND NECK.	TITUS OMNI-AA	30	#26 WHITE FINISH
B	SUPPLY	12"X12" MODULE SIZE, ALUMINUM, PLAQUE, SURFACE-MOUNTED DIFFUSER WITH 4-WAY THROW, ROUND NECK.	TITUS OMNI-AA	30	#26 WHITE FINISH
F	SUPPLY	24"X24" PERFORATED FACE, CEILING SUPPLY GRILLE WITH DORDER FOR LAY-IN CEILING. ALUMINUM CONSTRUCTION.	TITUS PAR-AA	35	WHITE FINISH
G	RETURN	24"X24" EGGCRATE FACE, CEILING RETURN GRILL WITH BORDER FOR LAY-IN CEILING. ALUMINUM CONSTRUCTION.	TITUS 50F	30	WHITE FINISH
I	RETURN	12"X12" EGGCRATE FACE, CEILING RETURN GRILLE, SURFACE MOUNTED, ALUMINUM CONSTRUCTION.	TITUS 50F	30	WHITE FINISH
K	RETURN	SURFACE MOUNTED RETURN GRILLE WITH 3/4" SPACING. ALUMINUM CONSTRUCTION, 0° DEFLECTION.	TITUS 350ZFL	30	WHITE FINISH

(F) =THIS WILL DESIGNATE A STEEL CEILING RADIATION DAMPER.

CBA = COLOR BY ARCHITECT

* = SEE ARCHITECTURAL DRAWINGS PROPER BORDER TYPES

AIR OUTLET DESIGNATION ON PLANS

MARK — A - 200 / 12 X 8 — AIR FLOW (CFM; RECTANGULAR FACE SIZE (WHERE APPLICABLE

CAPACITY	FACE	NECK/FLEXIBLE CONNECTION
0-150	6 X 6	6"
151-285	9 X 9	8"
286-440	12 X 12	10"
441-550	12 X 12	12"
551-750	15 X 15	14"
750-1000	18 X 18	16"

NOTE: COORDINATE ALL AIR DEVICE TYPE WITH ARCHITECTURAL RCP.

SOUND POWER DATA

Mark	Characteristic	FREQUENCY 63	125	250	500	1000	2000	4000	8000
AHU-1	INLET SOUND POWER:	48	52	54	56	57	55	52	46
	OUTLET SOUND POWER:	52	61	69	72	71	70	68	64
	CASING RADIATED SOUND POWER:	63	72	78	81	82	77	71	62
AHU-2	INLET SOUND POWER:	78	77	85	77	72	71	66	63
	OUTLET SOUND POWER:	81	83	88	83	81	78	73	68
	CASING RADIATED SOUND POWER:	92	94	92	91	89	86	88	83

RELIEF/INTAKE HOOD SCHEDULE

MARK	SERVES	MAX CFM.	THROAT VELOCITY (FPM)	HOOD SIZE	WEIGHT	STATIC PRESS. (IN WG)	HOOD VEL. (FPM)	MFGR	MODEL
RH-1	MULTI-PURPOSE	1300	836	16 X 14	112	0.021	239	COOK	GR14X16

NOTES:

1. 14" GALVANIZED CURB WITH BIRD SCREEN.

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701 S. 15th Street
McAllen, Texas 78501

PROJECT #: 13004
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1:
2:
3:
4:

COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS — J. GABRIEL HINOJOSA — 96585 — LICENSED PROFESSIONAL ENGINEER — 09.30.2013

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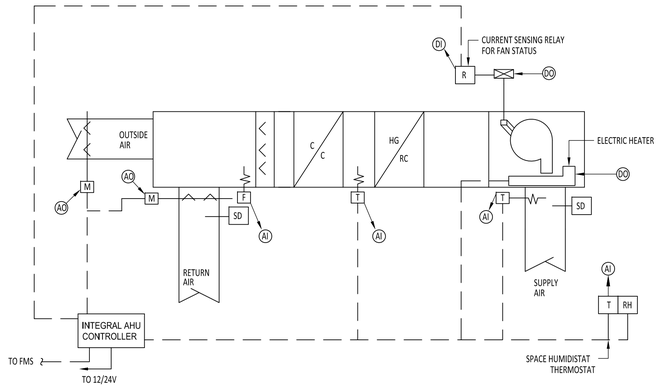


START/STOP
THE UNIT SHALL START AND STOP BY PROGRAMMED OCCUPIED/UNOCCUPIED TIMED INPUT OR OPERATOR OVERRIDE. THE PACKAGED DX AHU WILL BE CONTROLLED BY THE UNIT MANUFACTURER CONTROLS.

TEMPERATURE CONTROL
THE SPACE TEMPERATURE SENSOR SHALL MONITOR ROOM AIR TO DETERMINE REQUIRED CONDITIONING OF AIR. WHEN HEATING IS REQUIRED, ELECTRIC HEATER SHALL BE ENERGIZED IN STAGES TO MAINTAIN PROGRAMMED OR OVERRIDE TEMPERATURE. WHEN COOLING IS REQUIRED, COMPRESSOR(S) SHALL ENERGIZE IN STAGES TO MAINTAIN PROGRAMMED OR OVERRIDE TEMPERATURE.

HUMIDITY CONTROL
WHEN RELATIVE HUMIDITY, AS DETERMINED BY RETURN AIR RELATIVE HUMIDITY SENSOR, EXCEEDS 60% IN ANY CONDITIONING MODE, COMPRESSOR(S) SHALL ENERGIZE TO FULL COOLING AND HOT-GAS REHEAT COIL SHALL MODULATE TO MAINTAIN PROGRAMMED OR OVERRIDE TEMPERATURE. SYSTEM SHALL OPERATE IN THIS MANNER UNTIL RELATIVE HUMIDITY SENSOR DETERMINES SPACE HUMIDITY IS LESS THAN 55%.

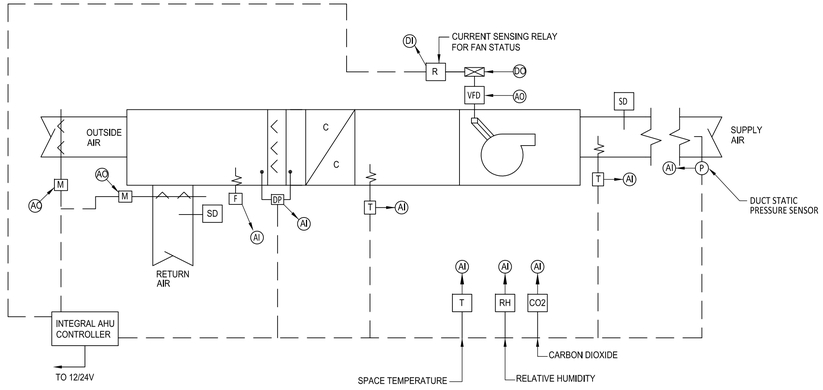
VENTILATION
DURING UNOCCUPIED PERIODS, THE OUTSIDE AIR DAMPER SHALL BE CLOSED. DURING OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL BE OPEN TO 400 CFM OUTSIDE AIR.

AUTOMATIC SHUTDOWN CONTROL
UPON DETECTION OF SMOKE AT ANY DUCT MOUNTED S.D. (FURNISHED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16) WITHIN THE AREA SERVED BY THE AHU, MOTOR SHALL BE DE-ENERGIZED. UPON DETECTION OF AIR BELOW 36°F, THE MANUAL RESET FREEZE STAT SHALL DE-ENERGIZE THE AHU MOTOR AND CAUSE THE OUTSIDE AIR DAMPER TO CLOSE FULLY.

NIGHT/UNOCCUPIED SETBACK CONTROL
NIGHT/UNOCCUPIED SETBACK CONTROLS SHALL BE ACTIVATED BY A ZONE TEMPERATURE SENSOR AND/OR RELATIVE HUMIDITY SENSOR. UNOCCUPIED SETBACK TEMPERATURE AND HUMIDITY CONTROL IS SIMILAR TO NORMAL OCCUPIED CONTROL EXCEPT THAT THE OUTSIDE AIR DAMPER IS CLOSED.

SETPOINTS	OCCUPIED MODE	UNOCCUPIED MODE
COOLING	74°F	80°F
HEATING	70°F	64°F
RH	50%	60%

1 PACKAGED DX CONSTANT VOLUME CONTROL DIAGRAM (TYPICAL OF AHU-1)
SCALE: N.T.S.



START/STOP
THE UNIT SHALL START AND STOP BY PROGRAMMED OCCUPIED/UNOCCUPIED TIMED INPUT OR OPERATOR OVERRIDE. THE PACKAGED DX AHU WILL BE CONTROLLED BY THE UNIT MANUFACTURER CONTROLS.

TEMPERATURE CONTROL
THE COLD DECK TEMPERATURE SENSOR SHALL CONTROL THE STAGING OF THE COMPRESSORS TO PROVIDE A SUPPLY AIR TEMPERATURE OF 55°F (ADJ.). THE DUCT STATIC PRESSURE SENSOR SHALL SIGNAL THE VFD OPERATING THE FAN MOTOR TO INCREASE OR DECREASE FAN SPEED AS APPROPRIATE TO MATCH STATIC PRESSURE SET POINT OF 1.0" W.G. (ADJ.). THE MINIMUM SUPPLY AIR AS ESTABLISHED BY TAB CONTRACTOR SHALL BE 2730 CFM.

HUMIDITY CONTROL
A SPACE MOUNTED HUMIDITY SENSOR SHALL MONITOR AND CONTROL THE SPACE RELATIVE HUMIDITY TO 50% (ADJ.). IF SPACE RELATIVE HUMIDITY REACHES 60% THE SUPPLY AIR TEMPERATURE SHALL RESET TO 50°F. WHEN RELATIVE HUMIDITY ATTAINS SET POINT, THE SYSTEM WILL RETURN TO NORMAL OPERATION; THE SUPPLY AIR TEMPERATURE SETPOINT SHALL REVERT BACK TO 55°F (ADJ.).

DEMAND CONTROL VENTILATION
DURING UNOCCUPIED PERIODS, THE OUTSIDE AIR DAMPER SHALL BE CLOSED. DURING OCCUPIED PERIODS, OUTSIDE AIR DAMPER SHALL MODULATE BETWEEN 1300 MAXIMUM AND 250 MINIMUM CFM OF OUTSIDE AIR, WHEN CO2 LEVELS, AS DETERMINED BY SPACE MOUNTED CO2 SENSOR, ARE LESS THAN 800PPM, OUTSIDE AIR DAMPER SHALL MODULATE TO 250 CFM OUTSIDE AIR VOLUME. AS LEVELS REACH 800PPM, OUTSIDE AIR DAMPER SHALL OPEN TO 1300 CFM OUTSIDE AIR AND OPERATE AT THIS POSITION UNTIL CO2 LEVELS ARE LESS THAN 700PPM (ADJ.).

OUTSIDE AIR DAMPER CONTROL
THE UNIT SHALL AUTOMATICALLY ADJUST OUTDOOR AIR DAMPER POSITION IN RESPONSE TO CHANGES IN THE SUPPLY AIR FAN VOLUME TO MAINTAIN A NEARLY CONSTANT OUTDOOR AIR VOLUME AT ALL TIMES. MAXIMUM AND MINIMUM OUTDOOR AIR DAMPER POSITIONS AT BOTH DESIGN AND MINIMUM SUPPLY AIR VOLUMES SHALL BE SET BY T&B. MODULATE OUTSIDE AIR DAMPER POSITION FROM THE MAXIMUM VENTILATION LIMIT AT DESIGN SUPPLY AIR TO THE MINIMUM VENTILATION LIMIT AT MINIMUM SUPPLY AIR VOLUME.

AUTOMATIC SHUTDOWN CONTROL
UPON DETECTION OF SMOKE AT ANY DUCT MOUNTED S.D. (FURNISHED, INSTALLED, AND WIRED FOR SHUTDOWN BY DIVISION 16) WITHIN THE AREA SERVED BY THE AHU, MOTOR SHALL BE DE-ENERGIZED. UPON DETECTION OF AIR BELOW 36°F, THE MANUAL RESET FREEZE STAT SHALL DE-ENERGIZE THE RTU MOTOR AND CAUSE THE OUTSIDE AIR DAMPER TO CLOSE. HIGH STATIC PRESSURE SWITCH (MANUAL RESET) WILL STOP THE FAN ON HIGH STATIC PRESSURE AS DETERMINED BY SYSTEM OPERATING CONDITIONS.

NIGHT/UNOCCUPIED SETBACK CONTROL
NIGHT/UNOCCUPIED SETBACK CONTROLS SHALL BE AVAILABLE AND ACTIVATED BY A ZONE TEMPERATURE SENSOR AND/OR RELATIVE HUMIDITY SENSOR. UNOCCUPIED SETBACK TEMPERATURE AND HUMIDITY CONTROL IS SIMILAR TO NORMAL OCCUPIED CONTROL EXCEPT THAT THE OUTSIDE AIR DAMPER IS CLOSED.

SETPOINTS	OCCUPIED MODE	UNOCCUPIED MODE
COOLING	74°F	80°F
HEATING	70°F	64°F
RH	50%	60%

2 PACKAGED DX MULTI-ZONE VAV CONTROL DIAGRAM (TYPICAL OF AHU-2)
SCALE: N.T.S.

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DATE: 09.30.13
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4:

COMMUNITY RESOURCE CENTER

PROJECT : SAN CARLOS, TEXAS
LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS — GABRIEL HINOJOSA — 96585 — LICENSED PROFESSIONAL ENGINEER

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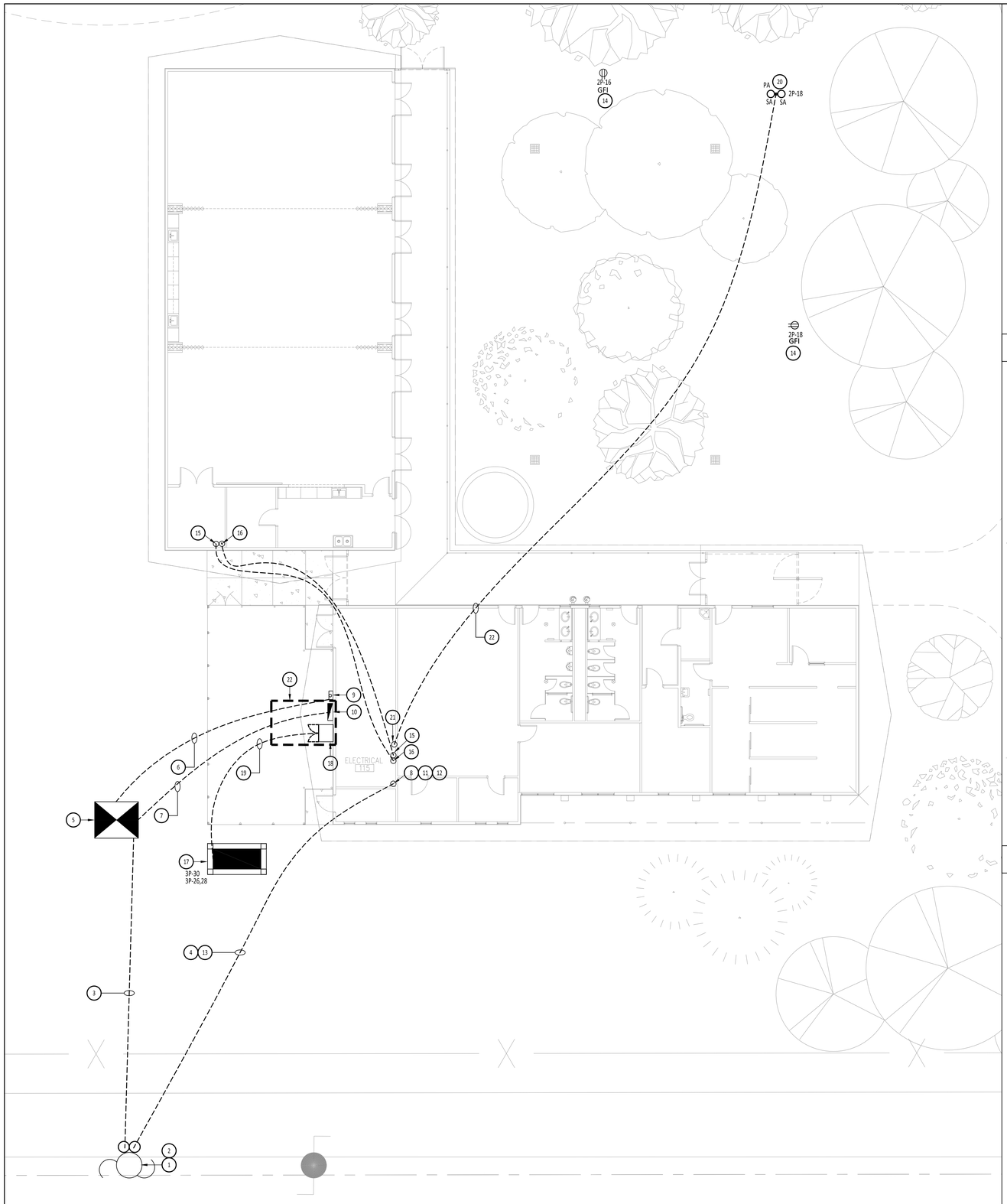
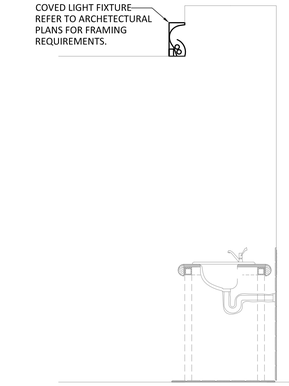


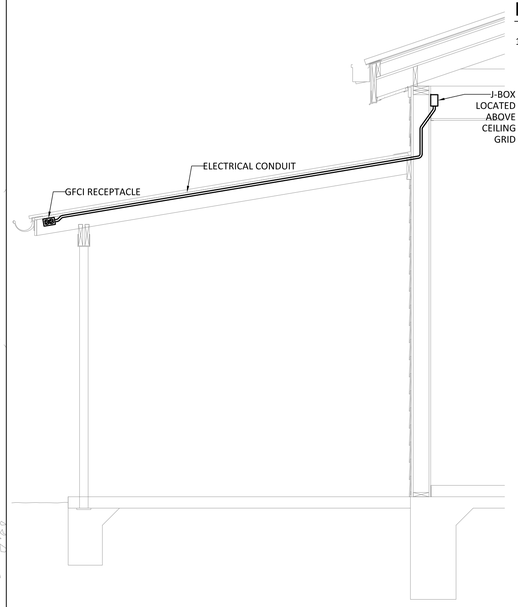
1 ELECTRICAL SITE PLAN
SCALE:1" = 10'-0"



KEY NOTES: (X)

1. FURNISH AND INSTALL CONDUIT ALONG CANOPY RAFTER. PAINT CONDUIT TO MATCH EXTERIOR FINISH PAINT.

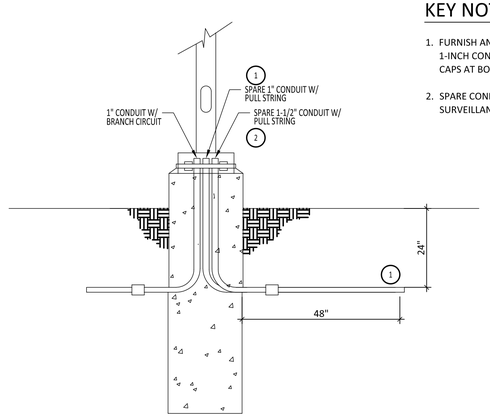
2 RESTROOM LIGHTING COVE DETAIL
SCALE:N.T.S



KEY NOTES: (X)

1. FURNISH AND INSTALL CONDUIT ALONG CANOPY RAFTER. PAINT CONDUIT TO MATCH EXTERIOR FINISH PAINT.

3 SOFFIT RECEPTICAL DETAIL
SCALE:N.T.S



KEY NOTES: (X)

1. FURNISH AND INSTALL 1-INCH CONDUIT WITH CAPS AT BOTH ENDS.
2. SPARE CONDUIT FOR SURVEILLANCE CAMERA.

4 PATIO POLE DETAIL
SCALE:N.T.S.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. APPROXIMATE LOCATION OF UTILITY POWER RISER POLE/UNDERGROUND PRIMARY.
2. APPROXIMATE LOCATION OF TELEPHONE RISER POLE/UNDERGROUND PRIMARY SERVICES.
3. FURNISH AND INSTALL 4-INCH CONDUIT WITH NYLON PULL STRING FOR PRIMARY ELECTRICAL SERVICE. CONDUIT MINIMUM DEPTH SHALL BE 48-INCHES TO TOP OF CONDUIT.
4. FURNISH AND INSTALL 4-INCH CONDUIT WITH NYLON FOR TELEPHONE SERVICE. CONDUIT MINIMUM DEPTH SHALL BE 24-INCHES TO TOP OF CONDUIT.
5. APPROXIMATE LOCATION OF UTILITY PAD MOUNTED TRANSFORMER.
6. FURNISH AND INSTALL 1/2 INCH PVC CONDUIT FOR METERING CABLE. MINIMUM DEPTH OF 36 INCHES TO TOP OF CONDUIT.
7. ELECTRICAL SERVICE ENTRANCE CONDUCTORS. REFER TO RISER DIAGRAM FOR CONDUIT AND CABLING REQUIREMENTS. MINIMUM DEPTH OF 36-INCHES TO TOP OF CONDUIT.
8. APPROXIMATE LOCATION OF TELEPHONE DEMARCATIONS. REFER TO DETAILS FOR INTER-SYSTEMS GROUNDING REQUIREMENTS.
9. APPROXIMATE LOCATION OF POWER UTILITY METER.ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL MOUNTING HARDWARE FOR THE UTILITY METER.
10. APPROXIMATE LOCATION OF SAFETY DISCONNECT SWITCH "MS-1".
11. FURNISH AND INSTALL QTY.(1) 4-INCH RIGID METAL CONDUIT WITH 200 LB NYLON PULL CORD 12-INCHES FROM WEST WALL. CONDUIT SHALL BE PAINTED BLUE AND SHALL EXTEND 4-INCHES ABOVE CONCRETE FOUNDATION SLAB.
12. FURNISH AND INSTALL 8'H X 4'W 3/4 "T, VERTICALLY HUNG, GRADE AC, PLYWOOD. PAINT PLYWOOD WITH TWO COATS OF FIRE RETARDANT TO MATCH EXISTING WALL FINISH.
13. QYT.(1) 4-INCH CONDUIT FOR TELEPHONE, DATA, AND CABLE. MINIMUM OF 24-INCHES DEPTH TO TOP OF CONDUIT.
14. APPROXIMATE LOCATION OF GFCI DUPLEX RECEPTACLE. FURNISH AND INSTALL SUPPORTED WITH SQUARE TUBE AT 12" PEDESTALS ABOVE FINISH GRADE AND WITH A WHILE IN USE COVER. REFER TO DETAILS 07, SHEET E2.0 FOR REQUIREMENTS.
15. FURNISH AND INSTALL 4-INCH SPARE CONDUIT WITH QTY.(8) NYLON 200 LB PULL CORD, FOR FUTURE BRANCH CIRCUITS. CONDUIT SHALL EXTEND 4-INCHES ABOVE CONCRETE FOUNDATION, RIGID GALVANIZED AND PAINTED YELLOW.
16. FURNISH AND INSTALL 4-INCH SPARE CONDUIT WITH QTY.(8) NYLON 200 LB PULL CORD, FOR FUTURE DATA DROPS. CONDUIT SHALL EXTEND 4-INCHES ABOVE CONCRETE FOUNDATION, RIGID GALVANIZED AND PAINTED BLUE.
17. APPROXIMATE LOCATION OF STANDBY GENERATOR. FURNISH AND INSTALL CIRCUITS FOR BLOCK HEATER AND BATTERY CHARGER CONSISTING OF 2#10, 1#10G, 3/4 INCH CONDUIT FOR BLOCK HEATER AND 2#12, 1#12G, 1/2 INCH CONDUIT FOR BATTERY CHARGER. (ALTERNATE NO. 1)
18. APPROXIMATE LOCATION OF AUTOMATIC TRANSFER SWITCH. (ALTERNATE NO. 1)
19. STANDBY ELECTRICAL SERVICE CONDUCTORS. REFER TO RISER DIAGRAM FOR CONDUIT AND CABLING REQUIREMENTS. MINIMUM DEPTH OF 36-INCHES TO TOP OF CONDUIT. (ALTERNATE NO. 1)
20. REFER TO DETAIL 04, THIS SHEET FOR CONDUIT STUB OUT REQUIREMENTS FOR FUTURE PATIO LANDSCAPE LIGHTING.
21. APPROXIMATE LOCATION OF SURVEILLANCE CAMERA STUB UP. FURNISH AND INSTALL 4-INCH CONDUIT WITH NYLON PULL STRINGS. ROUTE TO 4 FEET FROM THE EXTERIOR LIGHT POLE NEAR THE 1-1/2 INCH CONDUIT STUB OUT. REFER TO DETAIL 04, THIS SHEET FOR REQUIREMENTS.
22. ALLOWABLE SPACE FOR ELECTRICAL CONDUITS. COORDINATE WITH MECHANICAL DUCTS.

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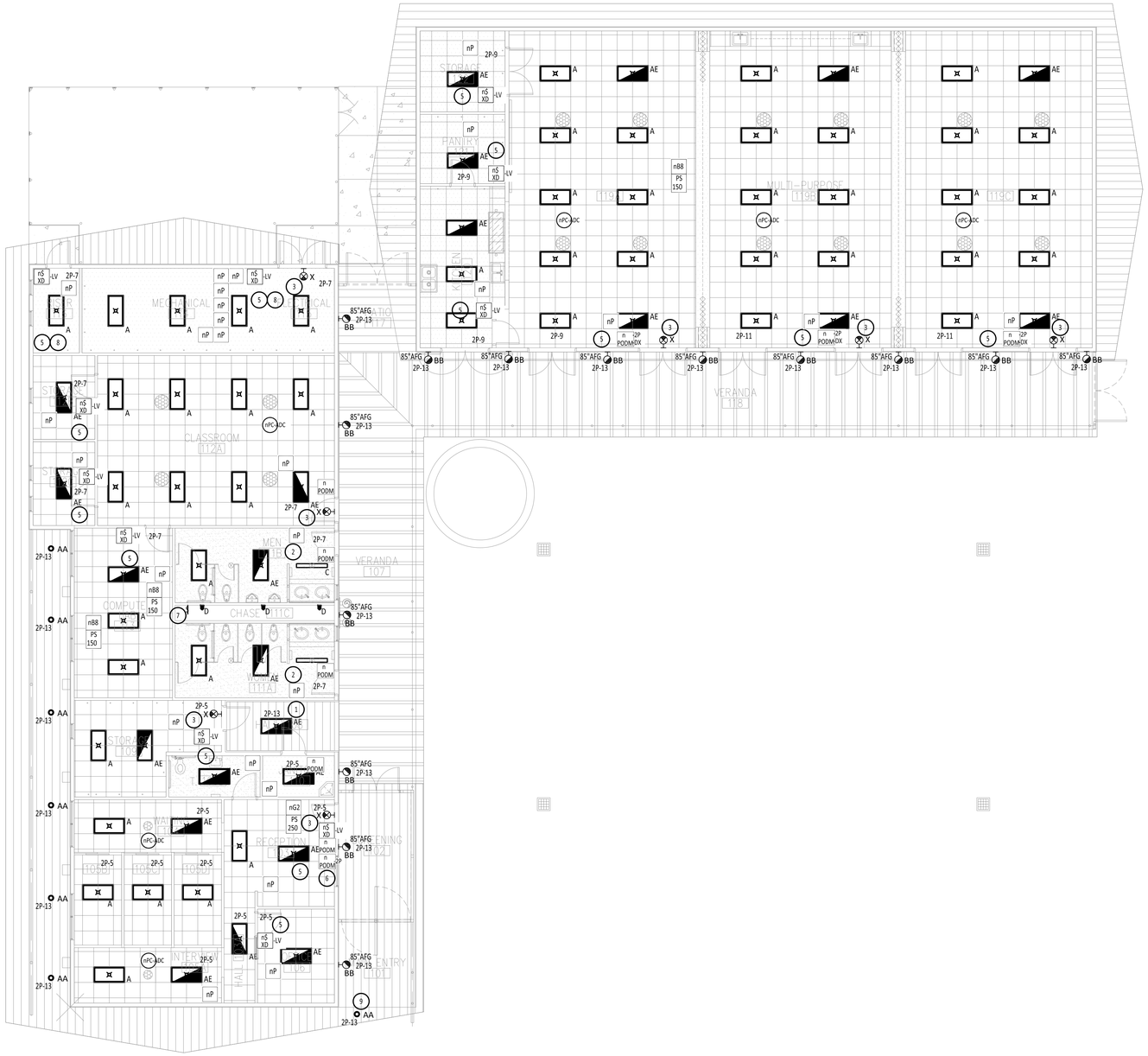


1 ELECTRICAL LIGHTING PLAN

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

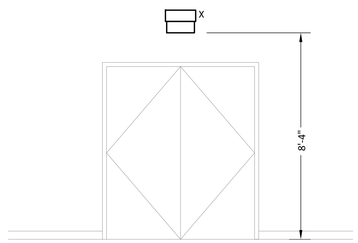
LIGHTING CONTROLS LEGEND:

nP4	nPANEL 4 NLIGHT ENABLED RELAY PANEL-4 MANUAL DIMMING OUTPUTS
nB8 PS 150	NBRG 8 KIT BRIDGE-8 PORT WITH 150 MA POWER SUPPLY
nG2 PS 150 PS 150	NGWY2 KIT NGATEWAY2 KIT CONSISTS OF A NGWY2 CTRL UNIT, A NGATEWAY2 GFX, TWO PS 150 (150 MA POWER SUPPLY), SENSORVIEW SOFTWARE MAX DEVICES 1500
n PODM	NPODM [COLOR] 1 CHANNEL ON/OFF TOGGLE
n PODM 2P	nPODM 2P [COLOR] 2 CHANNEL ON/OFF TOGGLE
n PODM 2P DX	NPODM 2P DX [COLOR] 2 CHANNEL ON/OFF TOGGLE WITH DIMMING
nS XD LV	NWSX PDT LV [COLOR] WALL SWITCH DECORATOR SENSOR, DUAL TECHNOLOGY (PDT), LOW VOLTAGE
nPC ADC	NCM PC ADC COMBINATION ON/OFF & AUTOMATIC DIMMING CONTROL PHOTOCELL-CEILING MOUNT, LOW VOLTAGE
nP	nPP16 POWER PACK: 120/277 VAC

NOTES

1. SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D)
2. "ILLUMINATION. ILLUMINATION SHALL BE PROVIDED FOR ALL WORKING SPACES ABOUT SERVICE EQUIPMENT, SWITCHBOARDS, PANELBOARDS, OR MOTOR CONTROL CENTERS INSTALLED INDOORS. ADDITIONAL LIGHTING OUTLETS SHALL NOT BE REQUIRED WHERE THE WORK SPACE IS ILLUMINATED BY AN ADJACENT LIGHT SOURCE OR AS PERMITTED BY 210.70(A)(1), EXCEPTION NO. 1, FOR SWITCHED RECEPTACLES. IN ELECTRICAL EQUIPMENT ROOMS, THE ILLUMINATION SHALL NOT BE CONTROLLED BY AUTOMATIC MEANS ONLY."
3. SENSOR PLACEMENT AND TYPES WERE PLACED WITH CURRENT PROJECT INFORMATION. ADDITIONAL SENSORS AND TYPES OF SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON DRAWING CHANGES, EMS/BMS, FINAL PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.
4. CEILING MOUNTED EXTENDED RANGE 360° SENSORS: FOR MAXIMUM DISTANCE ROTATE TO SENSOR CLOCKWISE SO THAT THE SCREW AXIS IS POSITIONED 7.5° OFF THE ENTRANCE AXIS. WHEN WALKING ACROSS A SENSOR'S BEAM, DETECTION WILL OCCUR AT APPROXIMATELY 28'. WHEN WALKING DIRECTLY INTO A SENSOR'S BEAM, DETECTION WILL OCCUR AT APPROXIMATELY 24'. (REFER TO CUT SHEET FOR PICTORIAL OF ALIGNMENT)
5. SENSOR MASKING KITS MAY BE REQUIRED TO LIMIT COVERAGE DEPENDING ON YOUR REQUIREMENTS.
6. FURNISH ALL WIRING DEVICES WITH WHITE FINISH.

SENSOR FEATURE OPTIONS		WALL SWITCH/POD COLOR OPTIONS	
ABBREVIATION	DEFINITION	ABBREVIATION	DEFINITION
ADC	PHOTOCELL WITH DIMMING	IV	IVORY
D	DIMMING	GR	GREY
R	RELAY	WH	WHITE
DZ	DUAL ZONE	AL	ALMOND
LV	LOW VOLTAGE	SENSOR ACCESSORIES	
LT	LOW TEMP	NAME	DEFINITION
NL	NIGHT LIGHT	WV BR	WIDE VIEW CEILING MOUNTING BRACKET
P	PHOTOCELL	FB1	DEEP FIXTURE BRACKET
PDT	PASSIVE DUAL TECHNOLOGY	FB2	DEEP FIXTURE BRACKET WITH HARDWARE
V	VANDAL RESISTANT		
2P	2 POLE		
347	347 VOLT		
208	208 OR 240 VOLT		
480	480 VOLT		



2 EXIT LIGHT INSTALLATION

SCALE: N.T.S.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.

KEY NOTES:

1. THIS LIGHT FIXTURE SHALL BE CONTROLLED WITH EXTERIOR LIGHT FIXTURE SCONCE. FURNISH AND INSTALL LIGHT FIXTURE WITH WEATHER PROOF GASKETS.
2. POWER PACKS TO BE USED TO CONTROL RESTROOM EXHAUST FAN. FAN SHALL REMAIN ON 5 MINUTES AFTER LIGHTS ARE TURNED OFF. POWER PACK WILL ALSO CONTROL THE COVE LIGHT FIXTURE TYPE C.
3. FURNISH AND INSTALL LIGHT FIXTURES IN THIS SPACE AT 100" AFF. 4.FURNISH AND INSTALL LIGHT FIXTURE ABOVE EXIT DOOR. ALIGN BOTTOM OF FIXTURE WITH MANSONRY. REFER TO DETAIL 02, SHEET E-1.1
4. FURNISH AND INSTALL LIGHT FIXTURE ABOVE EXIT DOOR. ALIGN BOTTOM OF FIXTURE WITH MANSONRY. REFER TO DETAIL 02, SHEET E-1.1.
5. FURNISH AND INSTALL ALL LIGHT SWITCHES AT 12-INCHES FROM DOOR MULLION. FURNISH AND INSTALL STAINLESS STEEL FACEPLATE FOR ALL SWITCHES.
6. nPOD 2P SHALL CONTROL EXTERIOR LIGHTING. REFER TO DETAILS FOR REQUIREMENTS.
7. FURNISH AND INSTALL LIGHT SWITCH ADJACENT TO CHASE ACCESS PANEL.
8. FURNISH FIXTURES WITH FLANGE KIT.
9. FURNISH LIGHT FIXTURE FOR BUILDING'S SIGN. FURNISH SLOPE ADAPTERS.

PROJECT #: 13004
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COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER
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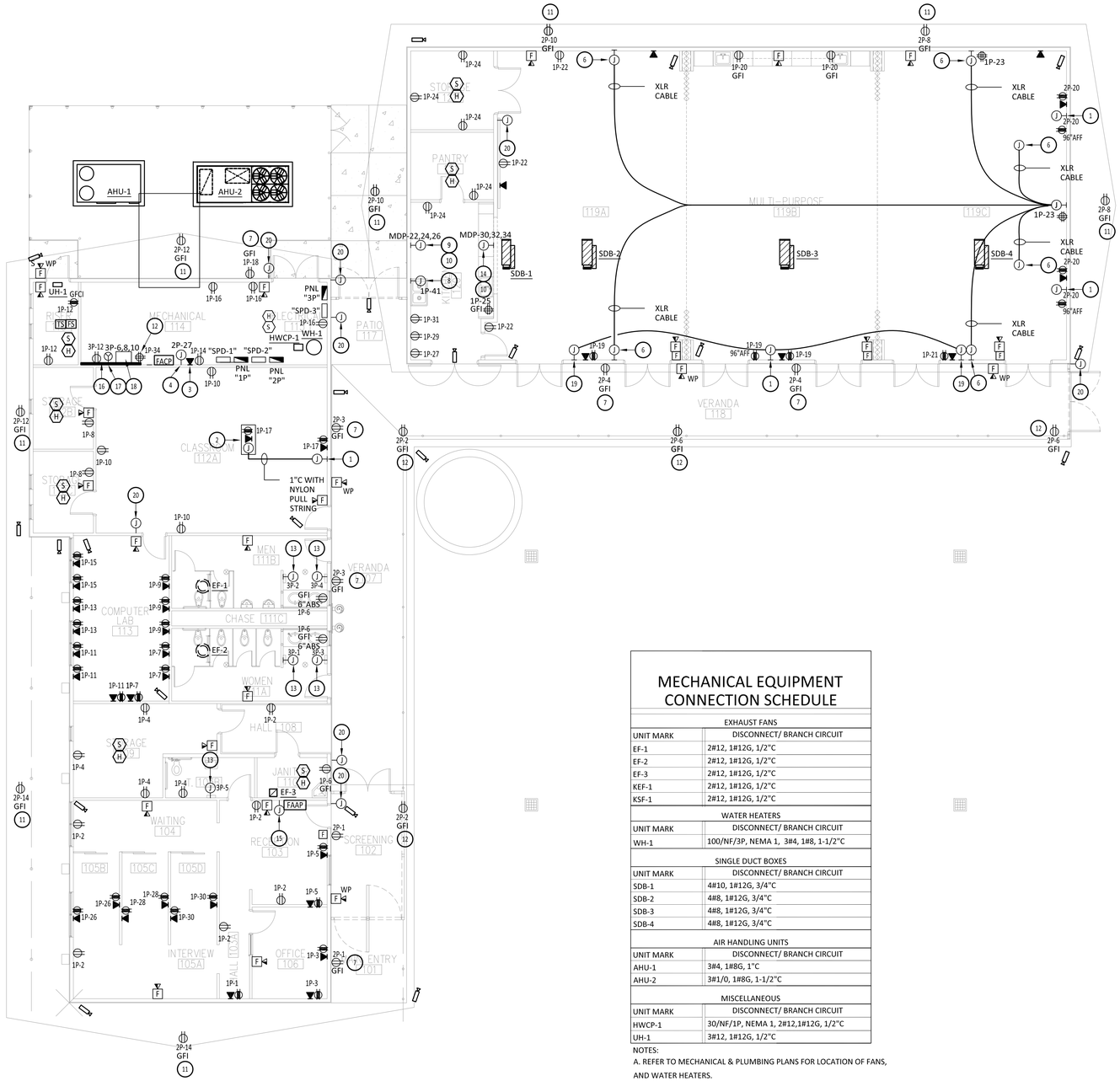

KEY NOTES:

20. FURNISH AND INSTALL QTY.(2) J-BOX FOR ACCESS CONTROL. ONE (1) J-BOX SHALL BE 2-1/2" X 3" AT 48" AFF FOR PROXIMITY CARD READERS. MOUNT ONE (1) SQUARE J-BOX ABOVE THE CEILING, DIRECTLY OVER THE DOOR FOR THE INTEGRATED DOOR CONTROLLER. ROUTE 1-INCH CONDUIT WITH NYLON PULL STRING BETWEEN BOTH J-BOXES. COORDINATE PLACEMENT OF PROXIMITY J-BOXES WITH ARCHITECT AND ENGINEER PRIOR TO INSTALLATION.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EXHAUST FANS	
UNIT MARK	DISCONNECT/ BRANCH CIRCUIT
EF-1	2#12, 1#12G, 1/2"C
EF-2	2#12, 1#12G, 1/2"C
EF-3	2#12, 1#12G, 1/2"C
KEF-1	2#12, 1#12G, 1/2"C
KSF-1	2#12, 1#12G, 1/2"C
WATER HEATERS	
UNIT MARK	DISCONNECT/ BRANCH CIRCUIT
WH-1	100/NF/3P, NEMA 1, 3#4, 1#8, 1-1/2"C
SINGLE DUCT BOXES	
UNIT MARK	DISCONNECT/ BRANCH CIRCUIT
SDB-1	4#10, 1#12G, 3/4"C
SDB-2	4#8, 1#12G, 3/4"C
SDB-3	4#8, 1#12G, 3/4"C
SDB-4	4#8, 1#12G, 3/4"C
AIR HANDLING UNITS	
UNIT MARK	DISCONNECT/ BRANCH CIRCUIT
AHU-1	3#4, 1#8G, 1"C
AHU-2	3#1/0, 1#8G, 1-1/2"C
MISCELLANEOUS	
UNIT MARK	DISCONNECT/ BRANCH CIRCUIT
HWCP-1	30/NF/1P, NEMA 1, 2#12,1#12G, 1/2"C
UH-1	3#12, 1#12G, 1/2"C

NOTES:
A. REFER TO MECHANICAL & PLUMBING PLANS FOR LOCATION OF FANS, AND WATER HEATERS.
B. ELECTRICAL CONTRACTOR SHALL MAKE CONNECTIONS TO KITCHEN HOOD SUPPLY AND RETURN FANS.
C. REFER TO PANELS FOR CIRCUIT DESIGNATIONS.

GENERAL NOTES:

1. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
2. REFER TO DETAIL SHEETS FOR PROJECTORS, PROJECTOR SCREEN, PROJECTOR MOUNTING HARDWARE, AUDIO/VIDEO EQUIPMENT, MULTIMEDIA CONTROLLERS AND OTHER SPECIAL SYSTEM EQUIPMENT.

KEY NOTES:

1. FURNISH AND INSTALL QTY.(2) 4-INCH SQUARE BOX WITH MUD RING ADAPTERS FOR SINGLE FACE PLATE FOR TELEVISION AUDIO/VIDEO DEVICES. MOUNT AT ONE (1) 96-INCHES ABOVE FINISH FLOOR. MOUNT ONE (1) AT 15-INCHES ABOVE FINISH FLOOR. FURNISH AND INSTALL 1-INCH CONDUIT BETWEEN J-BOXES.
2. APPROXIMATE LOCATION OF CEILING MOUNTED PROJECTOR MOUNTING RECESSED AUDIO/VIDEO J-BOX AND RECESSED RECEPTACLE. FURNISH AND INSTALL 4-INCH SQUARE J-BOX FOR AUDIO/VIDEO.
3. FURNISH AND INSTALL TWO TELEPHONE DROPS FOR FIRE ALARM.
4. FURNISH AND INSTALL J-BOX FOR POWER TO FIRE ALARM CONTROL PANEL.
5. APPROXIMATE LOCATION OF TELEPHONE BACK BOARD.
6. FURNISH AND INSTALL 4-INCH J-BOX FOR XLR CABLING. ROUTE XLR CABLING IN 1-1/2 INCH CONDUIT FROM J-BOX TO ACCESSIBLE ABOVE CEILING. FURNISH CONDUIT BUSHINGS. XLR CABLING SHALL BE SUPPORTED WITH 1-INCH CADDY J-HOOKS TO THE BUILDING JOIST. 4-FOOT MAXIMUM DISTANCE BETWEEN J-HOOKS.
7. FURNISH AND INSTALL EXTRA-DUTY WEATHER PROOF WHILE-IN-USE HOODS EQUAL TO THOMAS & BETTS RED-DOT CODE KEEPER FOR ALL GFCI DUPLEX RECEPTACLES LOCATED ON THE EXTERIOR OF THE BUILDING.
8. FURNISH AND INSTALL POWER FOR HOOD CONTROL AND LIGHTS. COORDINATE FINAL PLACEMENT WITH HOOD WIRING CHASE.
9. ROUTE POWER TO ELECTRIC RANGE THROUGH SHUNT TRIP BREAKER LOCATED IN THE HOOD CONTROL PANEL. MAKE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
10. INTERFACE FIRE ALARM DEVICE WITH HOOD CONTROL PANEL.MAKE FINAL CONNECTIONS TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
11. FURNISH AND INSTALL RECESSED MOUNTED TO THE SOFFIT GFCI RECEPTACLES. GFCI RECEPTACLES SHALL BE ROUTED TO A n16 PP. ONE N16PP PER CIRCUIT. FURNISH AND INSTALL nPODM WALL CONTROL SWITCH TO CONTROL ON/OFF OF RECEPTACLES. CONTROL SWITCH SHALL BE INSTALLED AT RECEPTIONIST OFFICE, ADJACENT TO OFFICE DESK AT 48" AFF. FACEPLATE TO MATCH SUFFIT FINISH.
12. REFER TO DETAILS FOR INSTALLATION REQRUIRMENTS. CONTROOL FOR RECEPTACLE SHALL BE PER KEYNOTE 11, THIS SHEET. FURNISH STAINLESS STEEL FACEPLATE.
13. POWER FOR HAND DRYERS.
14. FURNISH AND INSTALL RECEPTACLE TYPE NEMA 14-50R. FURNISH AND INSTALL BRANCH CIRCUIT CONSISTING OF 3#6, 1#10G, 3/4-INCH CONDUIT. CONTRACTOR MUST VERIFY WITH THE TYPE OF RANGE USED PRIOR TO INSTALLING RECEPTACLE, CIRCUIT AND BREAKER.
15. APPROXIMATE LOCATION OF GENERATOR ANNUCIATING PANEL. MOUNT ADJACENT TO FIRE ALARM ANNUCIATING PANEL.
16. FURNISH AND INSTALL POWER FOR UPS. COORDINATE WITH OWNER RECEPTACLE REQUIRED. FURNISH BRANCH CIRCUIT CONSISTING OF 3#10, 1#12G, 1/2 INCH GROUND.
17. FURNISH POWER FOR CABINET COOLING UNIT.
18. APPROXIMATE LOCATION OF TELECOMMUNICATION EQUIPMENT COOLING CABINET "RACK-1". REFER TO DETAILS FOR RACK REQUIREMENTS.
19. FURNISH AND INSTALL QTY.(1) 4-INCH SQUARE BOX WITH MUD RING ADAPTERS FOR SINGLE FACE PLATE FOR TELEVISION AUDIO/VIDEO DEVICES. MOUNT AT 155-INCHES ABOVE FINISH FLOOR. FURNISH AND INSTALL 1-INCH CONDUIT BETWEEN J-BOX AND J-BOX LOCATED AT THE TELEVISION. REFER TO KEYNOTE 1.

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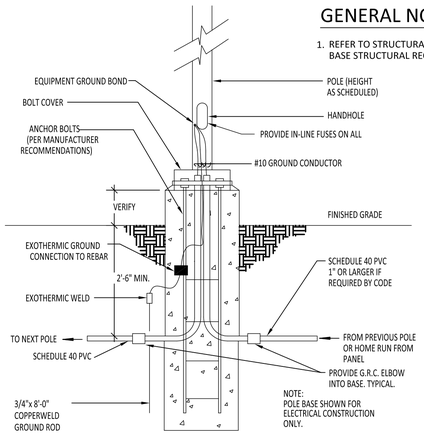
SHEET: E-1.2

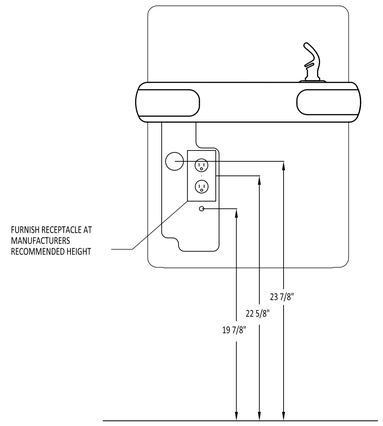
1 ELECTRICAL POWER AND SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE STRUCTURAL REQUIREMENTS.



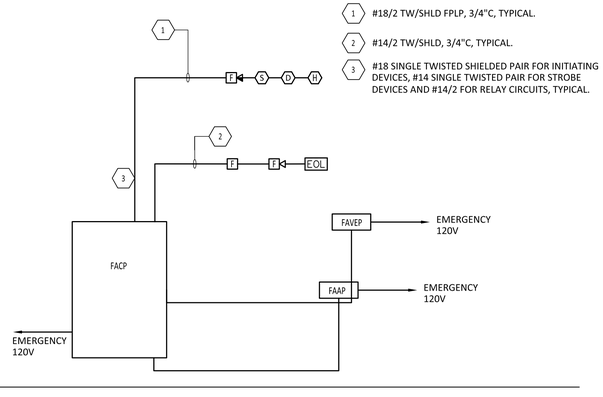
1 TYPICAL LIGHT POLE ELECTRICAL DETAIL
SCALE:N.T.S.



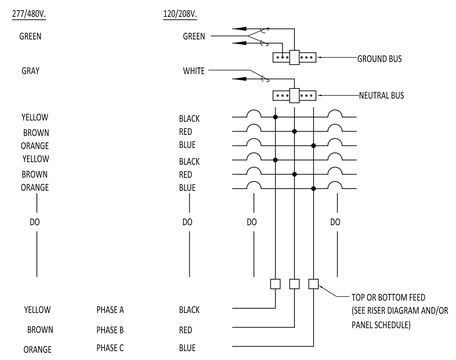
2 WATER COOLER RECEPTACLE DETAIL
SCALE:N.T.S.

KEYED NOTES:

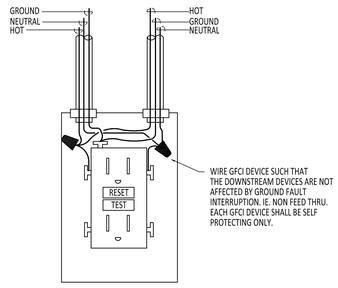
1. #18/2 TW/SHLD FPLP, 3/4"C, TYPICAL.
2. #14/2 TW/SHLD, 3/4"C, TYPICAL.
3. #18 SINGLE TWISTED SHIELDED PAIR FOR INITIATING DEVICES, #14 SINGLE TWISTED PAIR FOR STROBE DEVICES AND #14/2 FOR RELAY CIRCUITS, TYPICAL.



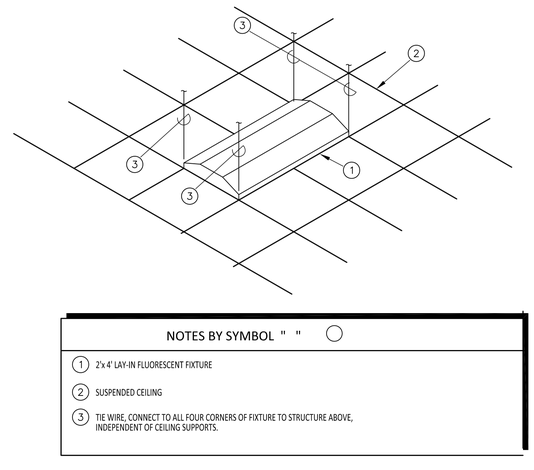
3 FIRE ALARM RISER DIAGRAM
SCALE:N.T.S.



4 TYPICAL PANEL COLOR CODE DETAIL
SCALE:N.T.S.



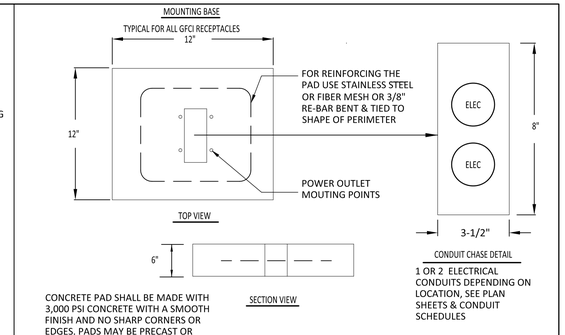
5 GFCI RECEPTACLE - WIRING DIAGRAM
SCALE:N.T.S.



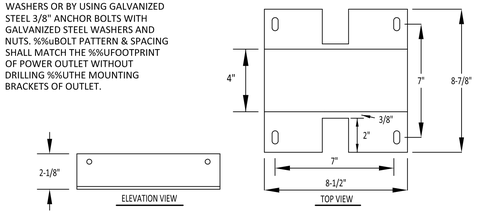
NOTES BY SYMBOL " "

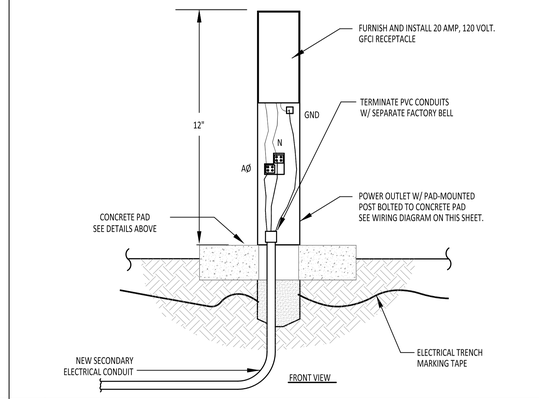
1. 2'x 4' LAY-IN FLUORESCENT FIXTURE
2. SUSPENDED CEILING
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO STRUCTURE ABOVE, INDEPENDENT OF CEILING SUPPORTS.

6 TYPICAL LAY-IN FIXTURE SUPPORT
SCALE:N.T.S.

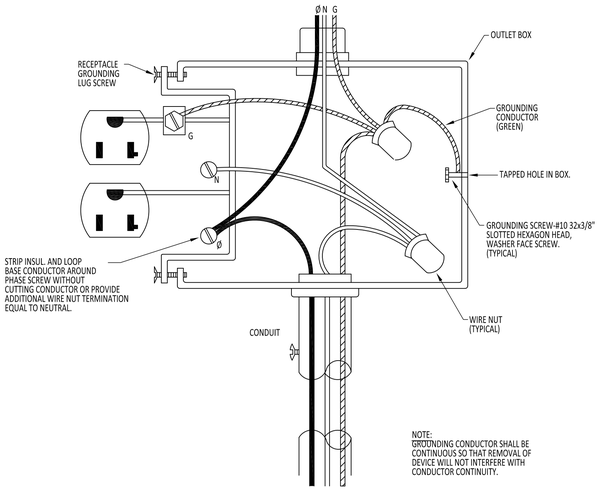


CONCRETE PAD SHALL BE MADE WITH 3,000 PSI CONCRETE WITH A SMOOTH FINISH AND NO SHARP CORNERS OR EDGES. PADS MAY BE PRECAST OR CAST ON-SITE. POWER OUTLETS SHALL BE MOUNTED TO PAD USING STAINLESS STEEL CONCRETE INSERTS, STAINLESS STEEL 3/8" BOLTS, & WASHERS OR BY USING GALVANIZED STEEL 3/8" ANCHOR BOLTS WITH GALVANIZED STEEL WASHERS AND NUTS. %%uBOLT PATTERN & SPACING SHALL MATCH THE %%UFOOTPRINT OF POWER OUTLET WITHOUT DRILLING %%UTHE MOUNTING BRACKETS OF OUTLET.

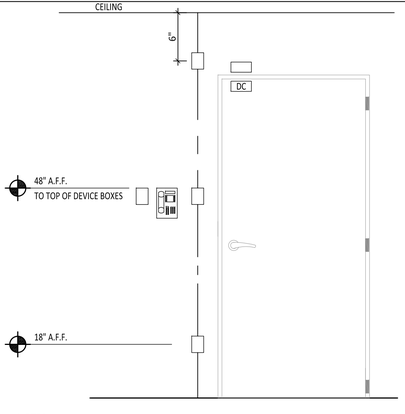




7 PATIO GFCI RECEPTACLE DETAIL
SCALE:N.T.S.

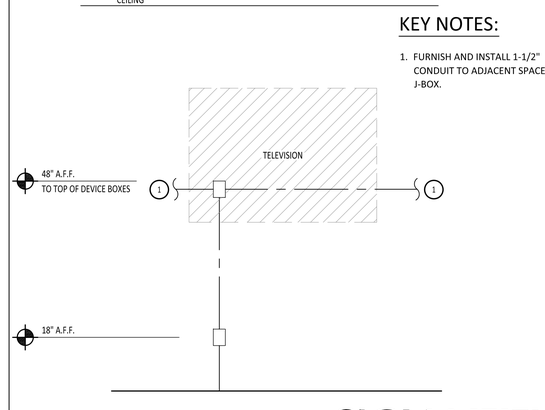


8 TYPICAL RECEPTACLE GROUNDING DETAIL
SCALE:N.T.S.



NOTES:
- VIEW IS OF INTERIOR LOOKING OUT. IMAGE MAY BE MIRRORED.
- WHEN POSSIBLE KEEP WALL DEVICES ALIGNED NEXT TO DOOR.

9 GENERAL DEVICE DETAIL
SCALE:N.T.S.



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10 TELEVISION DEVICE DETAIL
SCALE:N.T.S.

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: J.A.N.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER

PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER · 09/30/2013

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LIGHTING FIXTURE SCHEDULE

TYPE	MANUF & MODEL NUMBER	LAMPS	VA	VOLTAGE	MOUNTING	DESCRIPTION
A	LITHONIA -2GTL4 FURNISH WITH DGA24 OPTION FOR DRYWALL GRID ADAPTER FURNISH CANOPY MOUNTED LIGHT FIXTURE WITH GASKETS AS REQUIRED.	LED 4000 LUMENS	43	120	RECESSED	2X4 2TLED
AE	LITHONIA -2GTL4-EL14L FURNISH WITH DGA24 OPTION FOR DRYWALL GRID ADAPTER FURNISH CANOPY MOUNTED LIGHT FIXTURE WITH GASKETS AS REQUIRED.	LED 4000 LUMENS	43	120	RECESSED	2X4 2TLED WITH 1400 LUMENS EMERGENCY BATTERY PACK
B	LITHONIA -2RTL4 -48L -D49-LP840	LED 4800 LUMENS	49	120	RECESSED	2X4 2TLED
BE	LITHONIA -2RTL4 -48L -D49-LP840-EL14L	LED 4800 LUMENS	49	120	RECESSED	2X4 2TLED
C	AVANTE- AV-G-2-32-MDR-ASY-MVOLT-GEB10IS- FURNISH WITH FLANGE KIT	1-32W T8	34	120	RECESSED	4-FOOT DIRECT/INDIRECT COVE LIGHT FIXTURE
AA	GOTHAM- EVO-LW-35-18-4AR-120 FURNISH WITH FLAGE KIT TRIM FINISH TO MATCH SOFFIT PAINT	32 W LED 1800 LUMENS	32	120	RECESSED	ARCHITECTURAL DOWNLIGHTING LED 4-INCH APERATURE
BB	SPECLIGHT-MPN1209LEDGV-14W-35K-E1-_-PA23-_-EMRMLED FURNISH WITH FLAGE KIT ARCHITECT TO SELECT LAMP ELCLOSURE OPTIONS ARCHITECT TO SELECT FINISH	1-14W LED 1450 LUMENS	14	120	WALL	CONTEMPORARY MINI PIER WALL MOUNTED LIGHT LED FIXTURE, WITH EMERGENCY BATTERY PACK
X	LITHONIA - EDG-SINGLE FACE-R-EL-SD FURNISH WITH END/BACK/TOP MOUNT AS SHOWN ON PLANS	LED	10	120	REFER TO PLANS	LED EDGE-LIT EXITS
SA	LURALINE#LB31W-WHITE ACRYLIC-L10-912/40/BRZ FURNISH WITH GOOSENECK AND MOUTING ACCESSORIES REQUIRED. FURNISH WITH BRONZE FINISH	10W LED		120	POLE	NAUTICAL LED LIGHT FIXTURE
PA	LURALINE# APSS42011Z FURNISH WITH BRONZE FINISH HAND HOLE AT 2 FEET ABOVE BASE COVER	--		--	POLE	20 FOOT, SQUARE STRAIGHT STEEL POLE

1 LIGHT FIXTURE SCHEDULE
SCALE:N.T.S

ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
POWER		
	SINGLE RECEPTACLE - 20A/125V/1P/3W/G NEMA 5-20R	15" AFF
	DUPLEX RECEPTACLE, 20A, X=GFI= GROUND FAULT INTERCEPTOR IG = INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR. C = CEILING MOUNTED.	**15" AFF** AS REQD.
X	QUADPLEX RECEPTACLE, 20A, X=GFI= GROUND FAULT INTERCEPTOR IG = INSULATED GROUND DEVICE WITH INSULATED GROUNDING CONDUCTOR. C = CEILING MOUNTED.	
E	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF
	MULTIOUTLET ASSEMBLY - LENGTH AND OUTLET SPACING AS INDICATED	-
30/-/3	DISCONNECT SWITCH - 30/-/3 INDICATES 30A, 3-POLE, NONFUSED; 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
CB 30/3	CIRCUIT BREAKER DISCONNECT SWITCH - THERMAL MAGNETIC CB IN NEMA 1 ENCL; AMPS/POLES AS INDICATED	AS REQD.
30/30/3	DISCONNECT SWITCH - 30/30/3 INDICATES 30A, 3-POLE, 30A FUSE	AS REQD.
2	MOTOR STARTER FVNR UNO; NUMBER INDICATES NEMA SIZE	AS REQD.
CB	COMBINATION MOTOR CONTROLLER/DISCONNECT SWITCH	AS REQD.
	PANELBOARD	-
	TRANSFORMER	-
	MOTOR	-
~	SINGLE LINE CONTINUATION	-
	CIRCUIT HOME RUN TO PANELBOARD (2 #12, 1 #12G, 3/4"C. 20A/1P CB UNO)	-
X,X,X	THREE SINGLE POLE DEVICE CIRCUIT NUMBERS	-
X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS	-
	J-BOX WITH 1-INCH CONDUIT FOR CAMERAS. ROUTE CONDUIT WILL PULL CORD FROM J-BOX TO NEAREST INTERIOR SPACE, ACCESSIBLE ABOVE CEILING.	AS REQD.

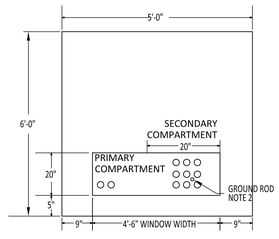
SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
FIRE ALARM		
DH	DOOR HOLDER OR DOOR RELEASE	-
F	FIRE ALARM PULL STATION	48" AFF
F	FIRE ALARM AUDIBLE/VISUAL SIGNAL	80" AFF
F	FIRE ALARM AUDIBLE SIGNAL	80" AFF
F	FIRE ALARM VISUAL SIGNAL	80" AFF
FS	FIRE ALARM SPRINKLER FLOW SWITCH	-
TS	FIRE ALARM SPRINKLER TAMPER SWITCH	-
S	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	80" AFF
H	HEAT DETECTOR CEILING OR WALL MOUNTED	-
D	DUCT SMOKE DETECTOR	-
FACP	FIRE ALARM CONTROL PANEL	-
FAAP	FIRE ALARM ANNUNCIATOR PANEL	-
F W	FIRE ALARM AUDIBLE/VISUAL SIGNAL, WEATHER PROOF	80" AFF

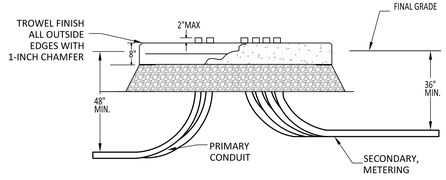
GENERAL ABBREVIATIONS

ABS	ABOVE BACK SPLASH
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
CB	CIRCUIT BREAKER
CLG	CEILING
EC	EMPTY CONDUIT
EX	EXISTING
F	FUSE
G	GROUND (EQUIPMENT)
GFI	GROUND FAULT INTERRUPTER
HCC	HORIZONTAL CROSS CONNECT
IC	INTERRUPTING CAPACITY
ICC	INTERMEDIATE CROSS CONNECT
IG	ISOLATED GROUND
MTD	MOUNT OR MOUNTED
NC (N.C.)	NORMALLY CLOSED
NF	NONFUSED
NIC	NOT IN CONTRACT
TYP	TYPICAL
EP	ELECTRICAL PRIMARY
NL	NIGHT LIGHT
NO (N.O.)	NORMALLY OPEN
RCPT(S)	RECEPTACLE(S)
PNL	PANEL
SO (S.O.)	SPACE ONLY
SP	SPARE
ST (S.T.)	SHUNT TRIP
SW	SWITCH
UF	UNDERFLOOR
UG	UNDERGROUND
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
UNO	UNLESS NOTED OTHERWISE

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE;
   15" AFF INDICATES TO BOTTOM OF DEVICE;
   ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

2 ELECTRICAL GENERAL LEGEND
SCALE:N.T.S

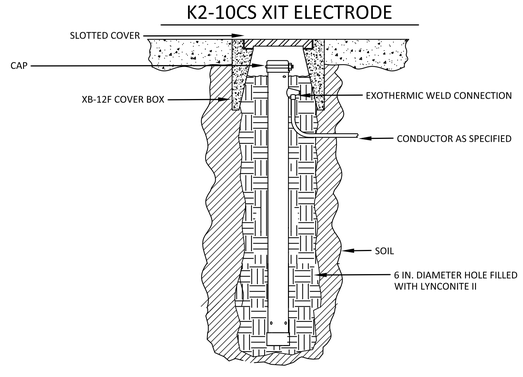




GENERAL NOTES:

1. PAD ASSEMBLIES INCLUDE SITE PREPARATION, BEDDING AND DRAINAGE.
2. SLABS MAY BE PRECAST OR POURED IN PLACE.
3. CONCRETE TESTING 4000 POUNDS PER SQUARE INCH.
4. STEEL REINFORCING SHOULD BE NO. 4 REAR, AATSM-A615 GRADE 60. PLACE APPROXIMATELY 6" OPPOSITE CORNER EACH WAY AND SECURELY TIED TOGETHER.
5. MINIMUM CONCRETE COVER OVER REINFORCING STEEL 5 INCHES.
6. WOOD FLOAT FINISH, LEAVING NO DEPRESSION.
7. CONTACT MVEC REPRESENTATIVE TO INSPECT BEFORE POURING CONCRETE.
8. A CLEAR AREA SHOULD BE MAINTAINED FOR 10 FEET IN FRONT OF PADMOUNT.
9. TOP OF PAD SHOULD BE MINIMUM OF 3" ABOVE GRADE AND BOTTOM OF PAD A MINIMUM OF 5" BELOW GRADE.
10. CONDUITS SHOULD BE IN FRONT BUT NOT UNDER WEIGHT OF TRANSFORMER.

3 TRANSFORMER PAD DETAIL
SCALE:N.T.S



GENERAL NOTES:

STRAIGHT SHAFT MODEL: INFORMATION & SPECIFICATIONS

A. MANUFACTURER: LYNCOLE XIT GROUNDING, 3547 VOYAGER ST., TORRANCE, CA 90503, PHONE 800-962-2610. WWW.LYNCOLE.COM
B. SHAFT CONFIGURATION: STRAIGHT. STANDARD LENGTHS: 10', 12', & 20', OR CUSTOM.
C. UL AND CSA LISTING: 467.
D. LYNCONITE II BACKFILL MEETS ANSI/NSF ENVIROMENTAL STANDARD 60.
E. MATERIAL: TYPE K COPPER 0.083" NOMINAL WALL THICKNESS.
F. CONSTRUCTION: HOLLOW TUBE, 2.125" O.D., FILLED WITH NON- HAZARDOUS SALTS (CALSOLYTE).
G. WEIGHT: 3.5 LBS PER LINEAL FOOT.
H. GROUND WIRE TERMINATION: EXOTHERMIC CONNECTION TO CONDUCTORS FROM #2 SOLID AWG TO 750 MCM. U-BOLT WITH PRESSURE PLATE PROVIDED AS TEST POINT.
I. MINIMUM LIFE EXPECTANCY: 50 YEARS. WARRANTY: 30 YEARS.
J. STRAIGHT SHAFT MODEL NO: K2-10CS, K2-12CS, K2-20CS.
K. GSA CONTRACT PRICING AVAILABLE.

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

4 LYNCOLE XIT GROUNDING SYSTEM
SCALE:N.T.S

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: J.A.N.
REVISION:
1:
2:
3:
4:

PROJECT : COMMUNITY RESOURCE CENTER
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR GARCIA · 108783 · LICENSED PROFESSIONAL ENGINEER
05/30/2013

Mata & Garcia
ARCHITECTS LLP
architecture | project management | interior design
Fernando Mata A.I.A., Partner Hector Rene Garcia R.A., Partner
1314 West Ivy Avenue McAllen, Texas 78501 Tel : (956) 631-4945 Fax : (956) 631-4968

SHEET: E-3.0

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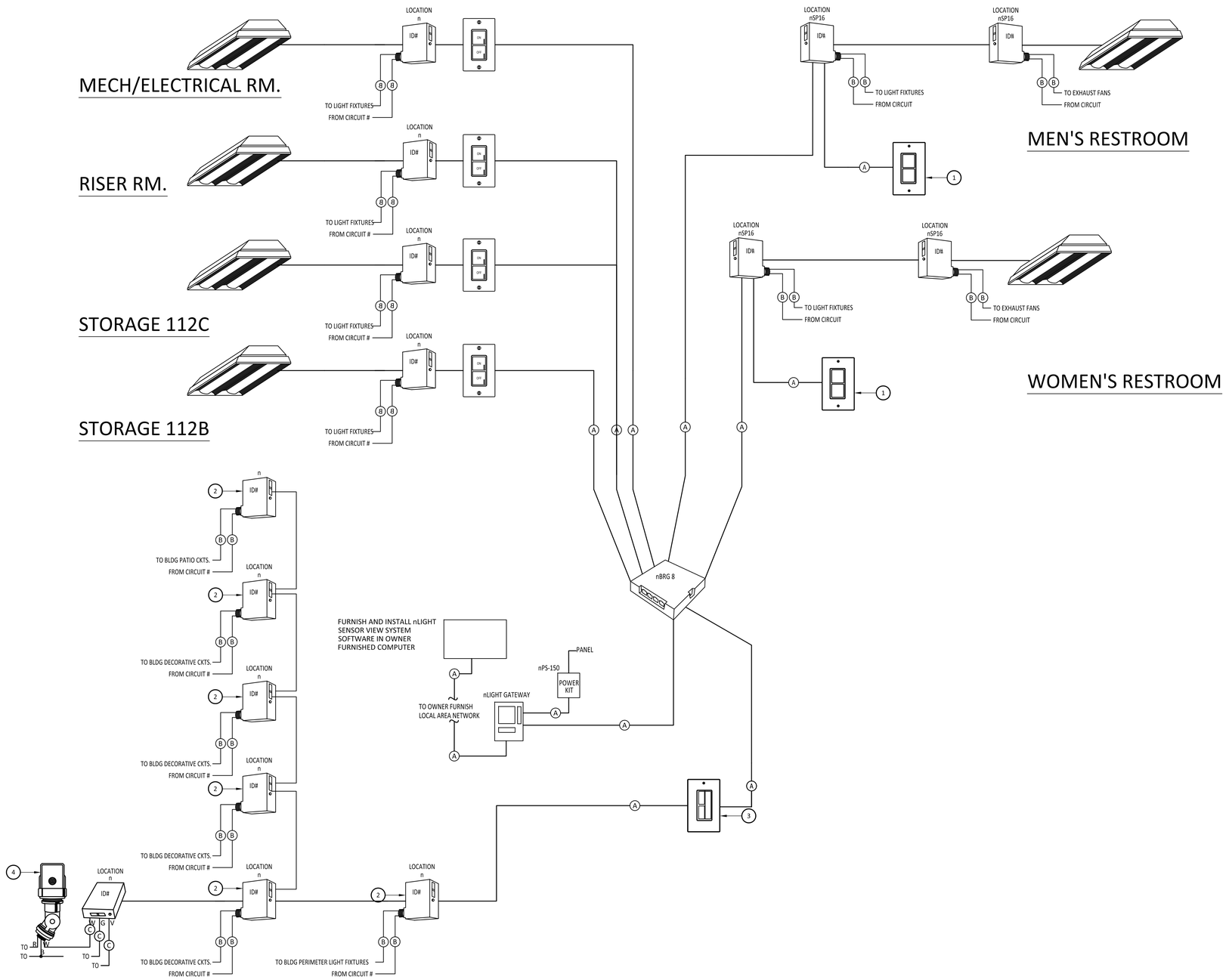

CABLE KEY NOTES:

CAT 5e CABLING	A
POWER (CLASS I)	B
POWER (CLASS II)	C

1 LIGHTING CONTROL
SCALE: N.T.S

GENERAL NOTES:

A. ALL SENSORS, POWER PACKS, DIGITAL SWITCHES, BRIDGES, CABLING AND GATEWAYS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY WITH MANUFACTURER ON THE ACTUAL QUANTITY OF ELEMENTS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

B. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER EIGHT HOURS OF LIGHTING CONTROL COMMISSION AND EIGHT HOURS OF OWNER TRAINING.

C. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER AN 8 HOUR FOLLOW-UP VISIT TO MAKE SENSOR , PROGRAMMING AND CONTROL ADJUSTMENT AND PROVIDE TRAINING TO OWNER.

D. APPROVED SUBSTITUTE LIGHTING CONTROL PRODUCTS BY LEVITON.

KEY NOTES:

1. EXHAUST FAN SHALL BE CONTROLLED WITH LIGHT OCCUPANCY LIGHT SWITCH. FAN SHALL REMAIN ON FOR 2 MINUTES AFTER LIGHTS HAVE BEEN TURNED OFF.
2. FURNISH AND INSTALL nPP16 POWER PACKS FOR EXTERIOR LIGHTING CONTROL IN MECHANICAL ROOM, ADJACENT TO ELECTRICAL PANELS.
3. FURNISH AND LIGHT SWITCH TYPE nPODM-2P FOR CONTROL OF EXTERIOR LIGHTING. CONTROL AS FOLLOWS:
   A. BUTTON (1) SHALL CONTROL PERIMETER LIGHTING.
   B. BUTTON (2): SHALL CONTROL DECORATIVE LIGHTING.
4. FURNISH AND INSTALL PHOTOCELL KIT FOR EXTERIOR LIGHTING. MOUNT PHOTOCELL FACING NORTH.

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: J.A.N.
REVISION:
1:
2:
3:
4:

PROJECT : COMMUNITY RESOURCE CENTER
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER
09.30.2013

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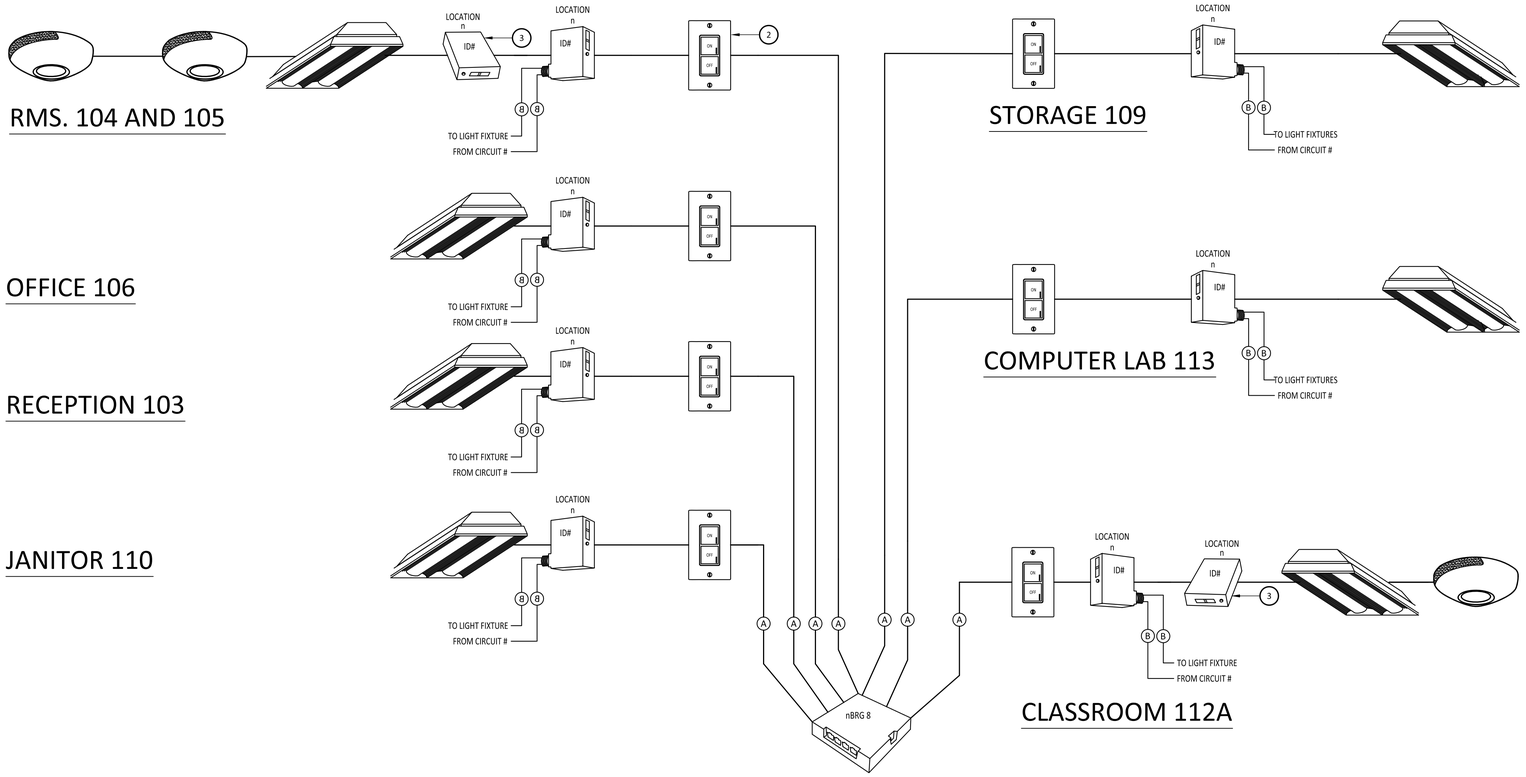
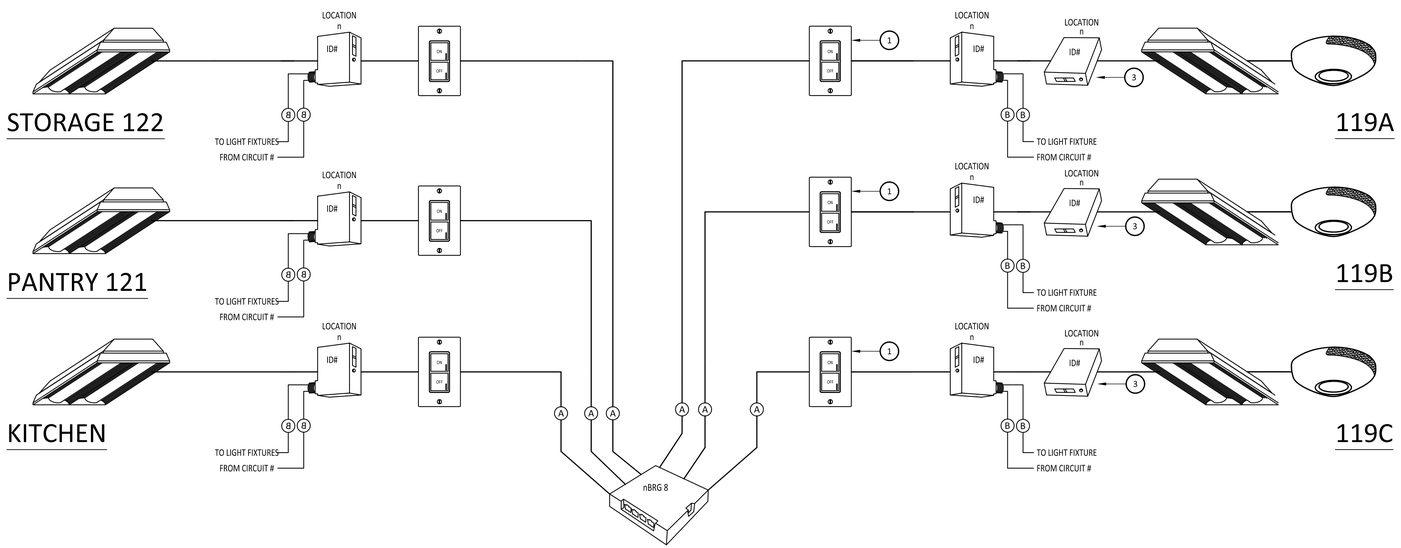
701 S. 15th Street
McAllen, Texas 78501

SHEET: E-4.0





1 LIGHTING CONTROL
SCALE: N.T.S

GENERAL NOTES:

A. ALL SENSORS, POWER PACKS, DIGITAL SWITCHES, BRIDGES, CABLING AND GATEWAYS ARE SHOWN FOR CONCEPTUAL PURPOSES ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY WITH MANUFACTURER ON THE ACTUAL QUANTITY OF ELEMENTS REQUIRED FOR A COMPLETE AND FUNCTIONING SYSTEM.

B. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER EIGHT HOURS OF LIGHTING CONTROL COMMISSION AND EIGHT HOURS OF OWNER TRAINING.

C. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER AN 8 HOUR FOLLOW-UP VISIT TO MAKE SENSOR , PROGRAMMING AND CONTROL ADJUSTMENT AND PROVIDE TRAINING TO OWNER.

D. APPROVED SUBSTITUTE LIGHTING CONTROL PRODUCTS BY LEVITON.

KEY NOTES:

1. FURNISH AND LIGHT SWITCH TYPE nPODM-2P-DX FOR CONTROL OF MULTIPURPOSE ROOM. CONTROL AS FOLLOWS:
   A. BUTTON (1) SHALL ENABLE ON/OFF AND DIMMING CONTROL OF SPACE WHEN PARTITION WALLS ARE CLOSED.
   B. BUTTON (2): SHALL ENABLE ON/OFF AND DIMMING CONTROL OF ALL MULTIPURPOSE SPACES WHEN PARTITION WALLS ARE OPENED.
   C. BUTTON (1) OR (2) SHALL ENABLE AUTOMATIC CONTROL OF PHOTOCELL IN SPACE FOR DAY-LIGHT HARVESTING.
2. FURNISH AND LIGHT SWITCH TYPE nPODM-2P-DX FOR CONTROL OF MULTIPURPOSE ROOM. CONTROL AS FOLLOWS:
   A. BUTTON (1): SHALL ENABLE ON/OFF CONTROL OF ROOMS 104 & 105 AND SHALL ENABLE AUTOMATIC CONTROL OF PHOTOCELL IN SPACE FOR DAY-LIGHT HARVESTING.
3. FURNISH AND INSTALL nIO DEVICES FOR DIMMING CONTROL AS REQUIRED.

CABLE KEY NOTES:

CAT 5e CABLING	A
POWER (CLASS I)	B
POWER (CLASS II)	C

SIGMAHN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: J.A.N.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER
PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · JOSE ANTONIO NICANOR · 108783 · LICENSED PROFESSIONAL ENGINEER
09-30-2013

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SHEET: E-4.1

PANELBOARD MDP

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION:EXTERIOR
800 A MAIN BREAKER (LSI) — MOUNTING: SURFACE, NEMA 3R ENCLOSURE
BUSES: MAIN - 800 A; NEUTRAL - 100%; EQUIPMENT GROUND;ISOLATED GROUND — Isc = 40,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	6624	AHU-1	70/3	1	A	2	100/3	PANEL 1P	0	3600	3620
0	0	6624	"	-	3	B	4	-	"	0	3960	1700
0	0	6624	"	-	5	C	6	-	"	0	3780	1700
0	0	11136	AHU-2	150/3	7	A	8	100/3	PANEL 2P	1452	1440	0
0	0	11136	"	-	9	B	10	-	"	745	1260	0
0	0	11136	"	-	11	C	12	-	"	1715	900	0
0	0	2000	SDB-1	25/3	13	A	14	100/3	PANEL 3P	0	0	9644
0	0	2000	"	-	15	B	16	-	"	0	0	9956
0	0	2000	"	-	17	C	18	-	"	0	0	7700
0	0	3000	SDB-2	35/3	19	A	20	20/1	SPARE	0	0	
0	0	3000	"	-	21	B	22	60/3	RANGE (3)	0	0	5666
0	0	3000	"	-	23	C	24	-	"	0	0	5666
0	0	3000	SDB-3	35/3	25	A	26	-	"	0	0	5666
0	0	3000	"	-	27	B	28	-	ELECTRIC RANGE SHUNT TRIP	0	0	
0	0	3000	"	-	29	C	30	50/3	RANGE (3)	0	0	4800
0	0	3000	SDB-4	35/3	31	A	32	-	"	0	0	4800
0	0	3000	"	-	33	B	34	-	"	0	0	4800
0	0	3000		-	35	C	36	-	ELECTRIC RANGE SHUNT TRIP	0	0	
0	0	8000	WH-1	70/3	37	A	38	100/3	SURGE PROTECTIVE DEVICE	0	0	
0	0	8000	"	-	39	B	40	-	"	0	0	
0	0	8000	"	-	41	C	42	-	"	0	0	

VA:L (LIGHTING)	3912	CONNECTED	4890	DEMAND
VA:R (RECEPTACLES)	14940	CONNECTED	12470	DEMAND
VA:O (OTHER)	175998	CONNECTED	175998	DEMAND
VA: TOTAL	194850	CONNECTED	193358	DEMAND
AMPS: TOTAL	541	CONNECTED	537	DEMAND

L	R	O		TOTAL			
1452	5040	60490	VA CONNECTED TO A PHASE	66982	VA =	558	AMPS CONNECTED TO A PHASE @ 120 VOLTS
745	5220	58882	VA CONNECTED TO B PHASE	64847	VA =	540	AMPS CONNECTED TO B PHASE @ 120 VOLTS
1715	4680	56626	VA CONNECTED TO C PHASE	63021	VA =	525	AMPS CONNECTED TO C PHASE @ 120 VOLTS
3912	14940	175998	**TOTAL**	194850	VA		

PANELBOARD 1P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -100 A; NEUTRAL - 200%; EQUIPMENT GROUND;ISOLATED GROUND (2) — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	1920	RECEPT. PRINTER HALL 103	20/1	1	A	2	20/1	GEN. PURPOSE RECEPT. RMS 103, 104,105	0	900	
0	360		RECEPT. OFFICE 106	20/1	3	B	4	20/1	GEN. PURPOSE RECEPT. RMS 103, 104,105	0	720	
0	360		RECEPT. RECEPTION 103	20/1	5	C	6	20/1	GFCI RR.111A, 111B; JAN. 110	0	540	
0	360		RECEPT. COMP. LAB 113	20/1	7	A	8	20/1	GFCI STORAGE 112B, 112C	0	360	
0	540		RECEPT. COMP. LAB 113	20/1	9	B	10	20/1	GEN. PURPOSE RECEPT. RMS 112A	0	540	
0	540		RECEPT. COMP. LAB 113	20/1	11	C	12	20/1	GEN. PURPOSE RECEPT. RMS 116	0	360	
0	360		RECEPT. COMP. LAB 113	20/1	13	A	14	20/1	GEN. PURPOSE RECEPT. RMS 114	0	360	
0	360		RECEPT. COMP. LAB 113	30/2	15	B	16	20/1	GEN. PURPOSE RECEPT. RMS 114	0	540	
0	360		PROJECTOR RECEPT. RM. 112A	20/1	17	C	18	20/1	GFCI EXTERIOR	0	180	
0	720		PROJECTOR RECEPT. RM. 119A &B	20/1	19	A	20	20/1	GEN. PURPOSE RECEPT. RMS 119B	0	360	
0	360		PROJECTOR RECEPT. RM. 119C	20/1	21	B	22	20/1	GEN. PURPOSE RECEPT. RMS 119A	0	540	
0	360		RECEPT. RM. 119C	20/1	23	C	24	20/1	GEN. PURPOSE RECEPT. RMS120, 121, 122	0	900	
0	180		KITCHEN GFCI	30/1	25	A	26	20/1	SPARE	0	0	
0	0	600	REFRIGERATOR	20/1	27	B	28	20/1	SPARE	0	0	
0	0	600	REFRIGERATOR	20/1	29	C	30	20/1	SPARE	0	0	
0	0	600	FREEZER	20/1	31	A	32	20/1	SPARE	0	0	
0	0	1100	UH-1	15/3	33	B	34	20/1	FIRE ALARM CONTROL PANEL (1)	0	0	
0	0	1100	"	-	35	C	36	100/3	SURGE PROTECTIVE DEVICE	0	0	
0	0	1100	"	-	37	A	38	-	"	0	0	
0	0		SPARE	-	39	B	40	-	"	0	0	
0	180		HOOD LIGHTS AND CONTROL	20/1	41	C	42	20/1	SPARE	0	0	

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	11340	CONNECTED	10670	DEMAND
VA:O (OTHER)	7020	CONNECTED	7020	DEMAND
VA: TOTAL	18360	CONNECTED	17690	DEMAND
AMPS: TOTAL	51	CONNECTED	49	DEMAND

L	R	O		TOTAL			
0	3600	3620	VA CONNECTED TO A PHASE	7220	VA =	60	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	3960	1700	VA CONNECTED TO B PHASE	5660	VA =	47	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	3780	1700	VA CONNECTED TO C PHASE	5480	VA =	46	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	11340	7020	**TOTAL**	18360	VA		

PANELBOARD 2P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -100 A; NEUTRAL - 100%; EQUIPMENT GROUND (2) — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	360		EXTERIOR GFCI RECEPT.	20/1	1	A	2	20/1	DECORATION GFCI RECEPT.	0	360	
0	360		EXTERIOR GFCI RECEPT.	20/1	3	B	4	20/1	EXTERIOR GFCI RECEPT.	0	360	
735	0		LTS RMS. 103-106; 108-110	20/1	5	C	6	20/1	DECORATION GFCI RECEPT.	0	360	
1078	0		LTS RMS. 111-116	20/1	7	A	8	20/1	DECORATION GFCI RECEPT.	0	360	
735	0		LTS RMS 120-122; 119A	20/1	9	B	10	20/1	DECORATION GFCI RECEPT.	0	360	
980	0		LTS RM 119 B &C	20/1	11	C	12	20/1	DECORATION GFCI RECEPT.	0	360	
374	0		LTS BLD PERIMETER	20/1	13	A	14	20/1	DECORATION GFCI RECEPT.	0	360	
10	0		LTS PATIO	20/1	15	B	16	20/1	GFCI RECEPTACLES	0	180	
0	0		SPARE	20/1	17	C	18	20/1	GFCI RECEPTACLES	0	180	
0	0		SPARE	20/1	19	A	20	20/1	SPARE	0	0	
0	0		SPARE	20/1	21	B	22	20/1	SPARE	0	0	
0	0		SPARE	20/1	23	C	24	20/1	SPARE	0	0	
0	0		SPARE	20/1	25	A	26	100/3	SURGE PROTECTIVE DEVICE	0	0	
0	0		SPARE	20/1	27	B	28	-	"	0	0	
0	0		SPARE	20/1	29	C	30	-	"	0	0	

VA:L (LIGHTING)	3912	CONNECTED	4890	DEMAND
VA:R (RECEPTACLES)	3600	CONNECTED	3600	DEMAND
VA:O (OTHER)	0	CONNECTED	0	DEMAND
VA: TOTAL	7512	CONNECTED	8490	DEMAND
AMPS: TOTAL	21	CONNECTED	24	DEMAND

L	R	O		TOTAL			
1452	1440	0	VA CONNECTED TO A PHASE	2892	VA =	24	AMPS CONNECTED TO A PHASE @ 120 VOLTS
745	1260	0	VA CONNECTED TO B PHASE	2005	VA =	17	AMPS CONNECTED TO B PHASE @ 120 VOLTS
1715	900	0	VA CONNECTED TO C PHASE	2615	VA =	22	AMPS CONNECTED TO C PHASE @ 120 VOLTS
3912	3600	0	**TOTAL**	7512	VA		

PANELBOARD 3P

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE — LOCATION: MECHANICAL ROOM
100 A MAIN LUGS ONLY — MOUNTING: SURFACE
BUSES: MAIN -100 A; NEUTRAL - 100%; EQUIPMENT GROUND (2) — Isc = 10,000 A RMS SYM AVAILABLE

VA:L	VA:R	VA:O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA:L	VA:R	VA:O
0	0	1700	HAND DRYER WOMEN'S RR	20/1	1	A	2	20/1	HAND DRYER MEN'S RR	0	0	1700
0	0	1700	HAND DRYER WOMEN'S RR	20/1	3	B	4	20/1	HAND DRYER MEN'S RR	0	0	1700
0	0	1700	HAND DRYER ADMIN RR.	20/1	5	C	6	30/3	OWNER PROVIDED UPS	0	0	2880
0	0		SPARE	20/2	7	A	8	-	"	0	0	2880
0	0		SPARE	-	9	B	10	-	"	0	0	2880
0	0		SPARE	20/1	11	C	12	20/1	CABINET COOLING UNIT	0	0	1920
0	0		SPARE	20/1	13	A	14	20/1	KEF-1	0	0	864
0	0		SPARE	20/1	15	B	16	20/1	KEF-2	0	0	1176
0	0		SPARE	20/1	17	C	18	20/1	SPARE	0	0	
0	0		SPARE	20/1	19	A	20	20/1	SPARE	0	0	
0	0		SPARE	20/1	21	B	22	20/1	SPARE	0	0	
0	0		SPARE	20/1	23	C	24	20/1	SPARE	0	0	
0	0		SURGE PROTECTIVE DEVICE	100/3	25	A	26	30/2	GEN. BLOCK HEATER CKT.	0	0	2500
0	0		"	-	27	B	28	-	"	0	0	2500
0	0		"	-	29	C	30	20/1	GEN. BATTERY CHARGER CKT.	0	0	1200

VA:L (LIGHTING)	0	CONNECTED	0	DEMAND
VA:R (RECEPTACLES)	0	CONNECTED	0	DEMAND
VA:O (OTHER)	27300	CONNECTED	27300	DEMAND
VA: TOTAL	27300	CONNECTED	27300	DEMAND
AMPS: TOTAL	76	CONNECTED	76	DEMAND

L	R	O		TOTAL			
0	0	9644	VA CONNECTED TO A PHASE	9644	VA =	80	AMPS CONNECTED TO A PHASE @ 120 VOLTS
0	0	9956	VA CONNECTED TO B PHASE	9956	VA =	83	AMPS CONNECTED TO B PHASE @ 120 VOLTS
0	0	7700	VA CONNECTED TO C PHASE	7700	VA =	64	AMPS CONNECTED TO C PHASE @ 120 VOLTS
0	0	27300	**TOTAL**	27300	VA		

KEY NOTES:

1. BRANCH BREAKER TO BE RED FINISH AND LABELED "FIRE ALARM CONTROL PANEL".
2. FURNISH AND INSTALL SURGE SUPPRESSION DEVICE EQUAL TO CURRENT TECHNOLOGY# SL3-125KA-208-3Y-MDT-F1-HPI.
3. FURNISH SHUNT TRIP BREAKER.

1 ELECTRICAL PANEL SCHEDULES
SCALE: N.T.S.

TELECOMMUNICATION RACK VOICE/DATA SCHEDULE

QTY	MANU.	MODEL NUMBER
1	APC	RACK SYSTEM TYPE# APC NETSHELTER SX AR3100
1	APC	Rack Air Removal Unit ACF400
2	APC	Basic Rack PDU's
3	APC	Blanking panel Kit AR8101 BLK.
2	APC	Vertical Cable Organizer AR8442.
5	APC	2U Patch Cord Organizer Black AR8427

RACK -1 (MODEL # APC NETSHELTER SX AR3100)

UNIT SPACE NO.	DEVICES	UNIT SPACE NO.
42	8U BLANKING PANEL	42
41	"	41
40	"	40
39	"	39
38	"	38
37	"	37
36	"	36
35	"	35
32	1U BLANKING PANEL	32
31	HORIZONTAL WIRE MANAGEMENT (2U)	31
30	"	30
29	RACK LCD MONITOR (1U)	29
28	Keyboard Mouse Drawer (1U)	28
27	Blanking Panel	27
26	Horizontal Wire Management (2U)	26
25	"	25
24	Surveillance Server DVR (2U)	24
23	"	23
22	HORIZONTAL WIRE MANAGEMENT (2U)	22
21	"	21
20	ACCESS CONTROL SERVER (2U)	20
19	"	19
18	HORIZONTAL WIRE MANAGEMENT (2U)	18
17	"	17
16	5U BLANKING PANEL	16
15	"	15
14	"	14
13	"	13
12	"	12
11	"	11
10	8U BLANKING PANEL	10
9	"	9
8	"	8
7	"	7
6	"	6
5	"	5
4	"	4
3	"	3
2	1U BLANKING PANEL	2
1	1U BLANKING PANEL	1

TELECOMMUNICATION EQUIPMENT IDENTIFICATION

ROW	RACK/ CABINET	UNIT SPACE NO. (1-42)	PORT NO. (1-48)
1	1	1	48

EXAMPLE: R-1-48

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2 TELECOMMUNICATION EQUIPMENT SCHEDULES
SCALE: N.T.S.

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LOCATION : HIDALGO COUNTY
OWNER :

STATE OF TEXAS · JOSE ANTONIO NICANOR GARCIA · 108783 · LICENSED PROFESSIONAL ENGINEER
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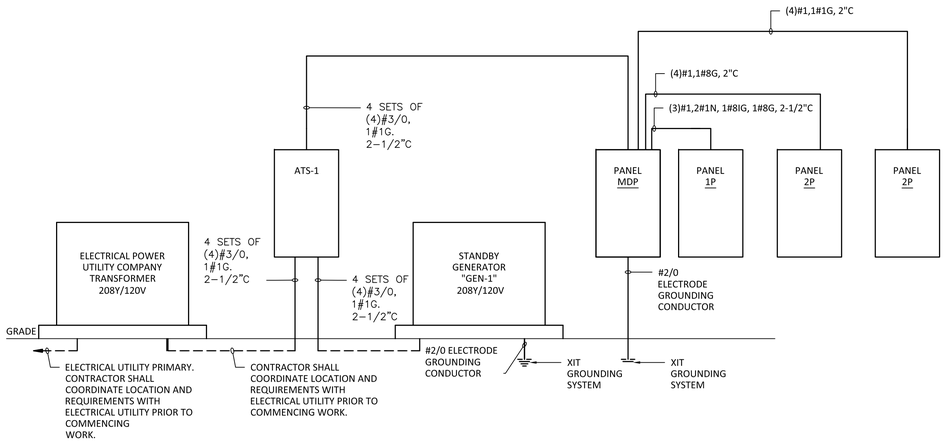
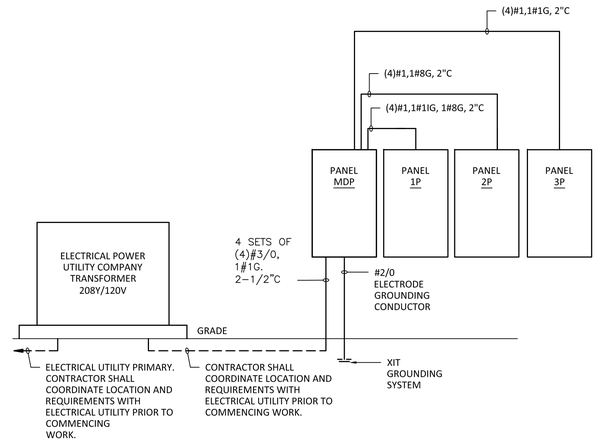


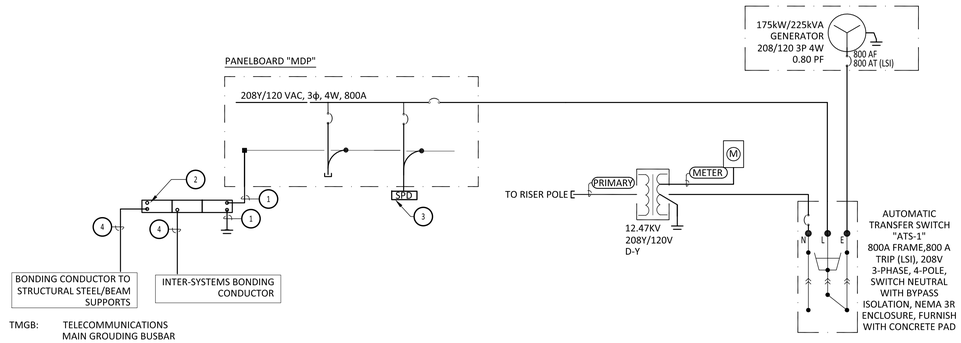
1 ELECTRICAL RISER (ALTERNATE No. 1)

SCALE:N.T.S



2 ELECTRICAL RISER (BASE BID)

SCALE:N.T.S



TMGB: TELECOMMUNICATIONS MAIN GROUDING BUSBAR

TGB: TELECOMMUNICATIONS GROUNDING BUSBAR

TEBC: TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR

RGB: RACK GROUNDING BUSBAR

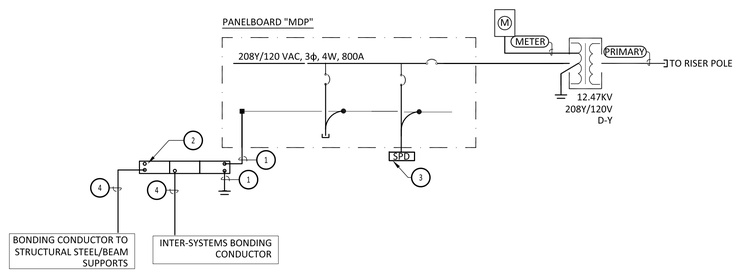
TEBC: TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

3 ELECTRICAL ONE-LINE DIAGRAM (ALTERNATE No.1)

SCALE:N.T.S

KEY NOTES:

1. FURNISH AND INSTALL NEW ELECTRODE CONDUCTOR (SIZE #2). ROUTE FROM PANEL "MDP" GROUNDING TERMINAL TO TMGB AND FROM TMGB TO NEW ELECTRODE.TEST TO EQUAL TO OR LESS THAN .1 OHMS. FURNISH AND INSTALL LYNCOLE K2-10CS XIT ELECTRODE. REFER TO DETAIL 09, SHEET E-2.0 FOR XIT ELECTRODE REQUIREMENTS.
2. FURNISH AND INSTALL NEW NEMA RATED TMGB 1/4"X 4 X" 12" WITH WITH STAND OFF INSULATORS BELOW PANEL MDP, INSIDE A NEMA 3R ENCLOSURE. CONNECT ALL BONDING CONDUCTORS TO THIS BAR. APPROVED BONDING METHOD (EXOTHERMIC WELD).
3. FURNISH AND INSTALL NEW SURGE PROTECTION DEVICE EQUAL TO CURRENT TECHNOLOGY # SL3-125KA-208-3Y-SDB-M4E-F2-HPI.
4. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR FOR TELEPHONE, DATA, MULTIMEDIA EQUIPMENT (SIZE # 6 AWG).
5. FURNISH AND INSTALL BONDING CONDUCTOR (SIZE # 6 AWG).



TMGB: TELECOMMUNICATIONS MAIN GROUDING BUSBAR

TGB: TELECOMMUNICATIONS GROUNDING BUSBAR

TEBC: TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR

RGB: RACK GROUNDING BUSBAR

TEBC: TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR

KEY NOTES:

1. FURNISH AND INSTALL NEW ELECTRODE CONDUCTOR (SIZE #2). ROUTE FROM PANEL "MDP" GROUNDING TERMINAL TO TMGB AND FROM TMGB TO NEW ELECTRODE.TEST TO EQUAL TO OR LESS THAN .1 OHMS. FURNISH AND INSTALL LYNCOLE K2-10CS XIT ELECTRODE. REFER TO DETAIL 09, SHEET E-2.0 FOR XIT ELECTRODE REQUIREMENTS.
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4. FURNISH AND INSTALL INTER-SYSTEMS BONDING CONDUCTOR FOR TELEPHONE, DATA, MULTIMEDIA EQUIPMENT (SIZE # 6 AWG).
5. FURNISH AND INSTALL BONDING CONDUCTOR (SIZE # 6 AWG).

4 ELECTRICAL ONE-LINE DIAGRAM (BASE BID)

SCALE:N.T.S.

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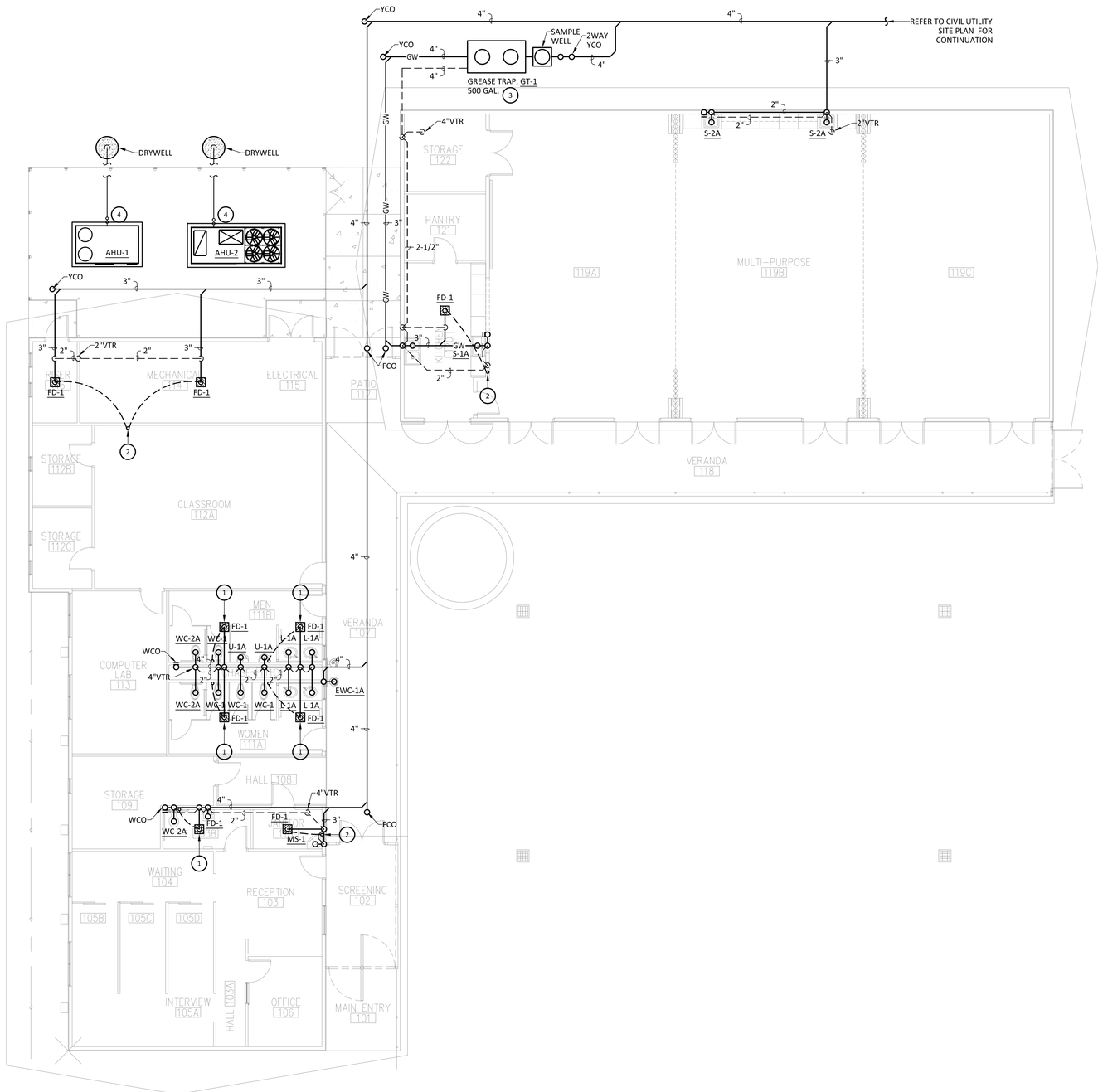

1 PLUMBING SEWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET MEP1.0 FOR GENERAL NOTES.

KEY NOTES:

1. FLOOR DRAIN SHALL BE PRIMED BELOW SLAB WITH 1/2" LINE FROM NEAREST WATER CLOSET FLUSH VALVE. CONCEAL LINE IN WALL AND BELOW CONCRETE SLAB.
2. RISE 1/2" TRAP PRIMER LINES IN WALL AND CONNECT TO TRAP PRIMER VALVE ABOVE CEILING. CONCEAL LINES IN WALLS AND BELOW CONCRETE SLAB. REFER TO PLUMBING DETAIL SHEET FOR TRAP PRIMER VALVE REQUIREMENTS.
3. THE GENERAL CONTRACTOR SHALL COORDINATE WITH OWNER PLACEMENT AND ORIENTATION OF NEW GREASE TRAP PRIOR TO EXCAVATING. VERIFY SANITARY DEPTH, RISE AND INVERT PRIOR TO CONNECTING TO EXISTING SYSTEM.
4. ROUTE FULL SIZE CONDENSATE DRAIN LINE UNDER GROUND TO NEW DRYWELL. LOCATE DRYWELL 20 FEET FROM EQUIPMENT. LINE SHALL BE SLOPED ONE PERCENT. REFER TO PLUMBING DETAIL SHEET FOR DRYWELL REQUIREMENTS.

PROJECT #: 13004
DATE: 09.30.13
DRAWN BY: J.V.
CHECKED BY: G.H.
REVISION:
1:
2:
3:
4:

COMMUNITY RESOURCE CENTER
PROJECT :
LOCATION : SAN CARLOS, TEXAS
OWNER : HIDALGO COUNTY

STATE OF TEXAS · GABRIEL HINOJOSA · 95585 · LICENSED PROFESSIONAL ENGINEER
09.30.2013

SIGMA HN ENGINEERS, PLLC
TBPE Firm No. F-14767
701 S. 15th Street
McAllen, Texas 78501

Mata & Garcia ARCHITECTS l.l.p
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1314 West Ivy Avenue McAllen, Texas 78501
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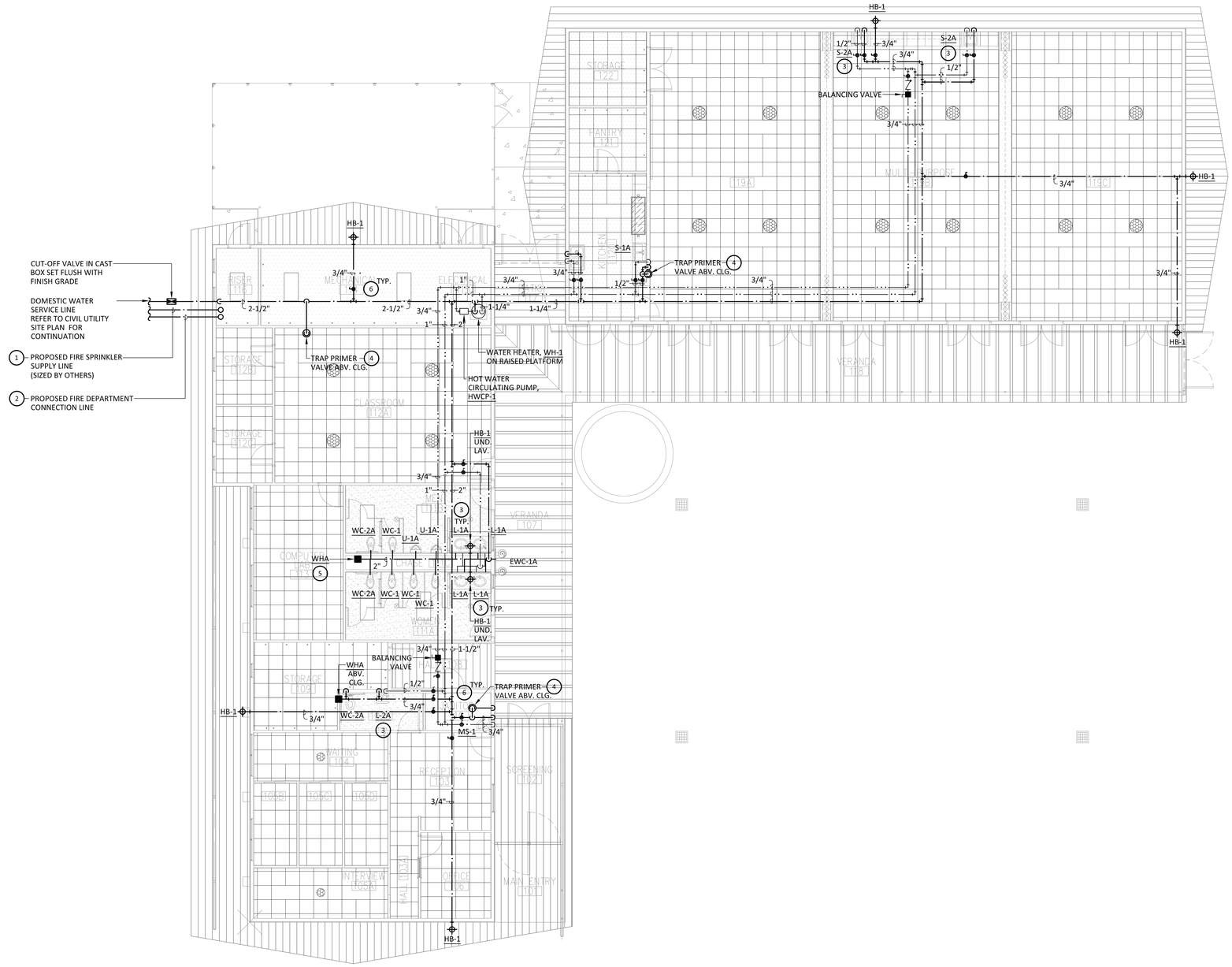

1 PLUMBING WATER PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET MEP1.0 FOR GENERAL NOTES.

KEY NOTES:

1. PROPOSED FIRE SPRINKLER SUPPLY LINE, REFER TO CIVIL UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE AND BACK FLOW PREVENTION OF LINE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS.
2. PROPOSED FIRE SPRINKLER FIRE DEPARTMENT CONNECTION LINE. REFER TO UTILITY PLAN FOR CONTINUATION OF PIPING. PIPE SHALL BE SIZED BY A LICENSED FIRE SPRINKLER DESIGNER. CIVIL ENGINEER SHALL COORDINATE WITH FIRE SPRINKLER DESIGNER FOR WATER SUPPLY LINE REQUIREMENTS AND FIRE DEPARTMENT CONNECTION TO MEET NFPA 13 INSTALLATION REQUIREMENTS. ALL FIRE PROTECTION PIPE SYSTEMS (INCLUDING ALL UNDERGROUND SERVICE PIPING) SHALL BE INSTALLED BY A LICENSED FIRE PROTECTION CONTRACTOR.
3. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL THERMOSTATIC MIXING VALVE (MV-1) AT LAVATORY TO DELIVER WATER AT 110°F. REFER TO PLUMBING SCHEDULE FOR SPECIFICATIONS. REFER TO PLUMBING DETAIL FOR INSTALLATION REQUIREMENTS.
4. TRAP PRIMER VALVE. DROP 1/2" SOFT DRAWN COPPER PIPING AND ROUTE TO FLOOR DRAINS SHOWN ON P1.0. ALL PIPING SHALL BE CONCEALED IN WALLS AND BELOW CONCRETE SLAB.
5. WATER HAMMER ARRESTOR IN CHASE. PROVIDE 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS. COORDINATE LOCATION TO AVOID CONFLICTS WITH GRAB BARS, FLUSH VALVE AND/OR OTHER EQUIPMENT AND DEVICES.
6. PROVIDE 12"X12" HINGED 16 GAUGE STEEL ACCESS PANEL WITH LOCKABLE KEYED DOOR FOR ISOLATION VALVES AND TRAP PRIMER VALVE. PRIME COATED WITH RUST INHIBITIVE ELECTROSTATIC POWDER, BAKED GREY ENAMEL AND SHALL BE PAINTED TO MATCH SURROUNDING AREAS.

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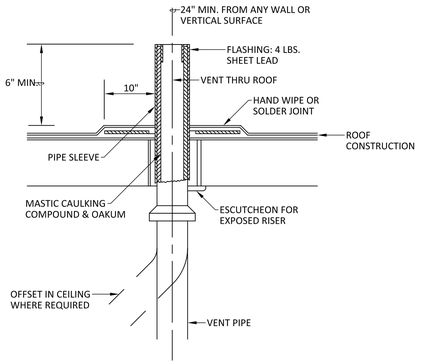

1 VENT THROUGH ROOF DETAIL

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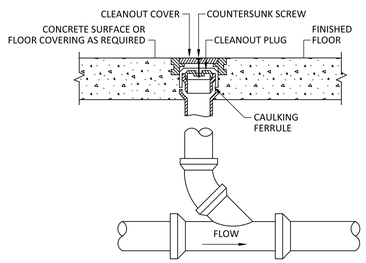

2 FLOOR CLEAN OUT DETAIL

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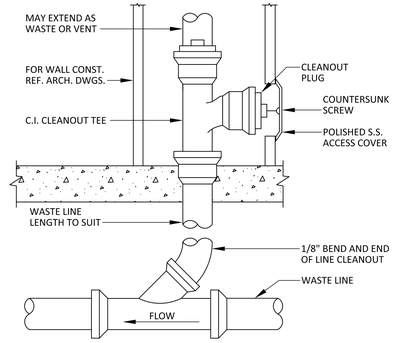

3 WALL CLEAN OUT DETAIL

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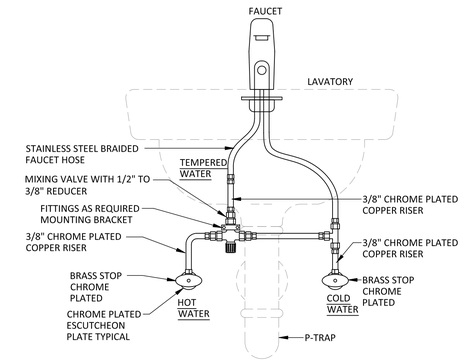
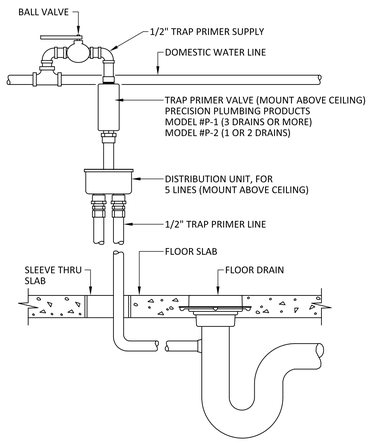


NOTE:

1. MIXING VALVE AND WATER LINES SHALL BE INSTALLED BETWEEN WALL AND P-TRAP TAILPIECE
2. PROVIDE AND INSTALL COVER KIT FOR P-TRAP AND STOPS.
3. FIELD INSULATE MIXING VALVE AND PIPING FROM MIXING VALVE TO FAUCET CONNECTION. JACKET INSULATION TO MATCH TRAP COVER KIT.
4. PROVIDE AND INSTALL REQUIRED 1/2" TO 3/8" REDUCERS AND CONNECTION FITTINGS.

4 LAVATORY THERMOSTATIC MIXING VALVE DETAIL

SCALE:N.T.S.



5 TRAP SEAL PRIMER DETAIL

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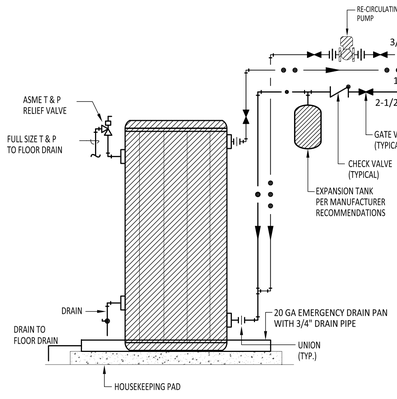

6 FLOOR MOUNTED WATER HEATER DETAIL

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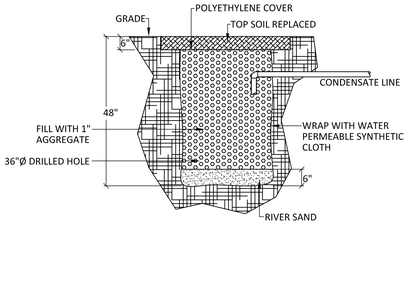
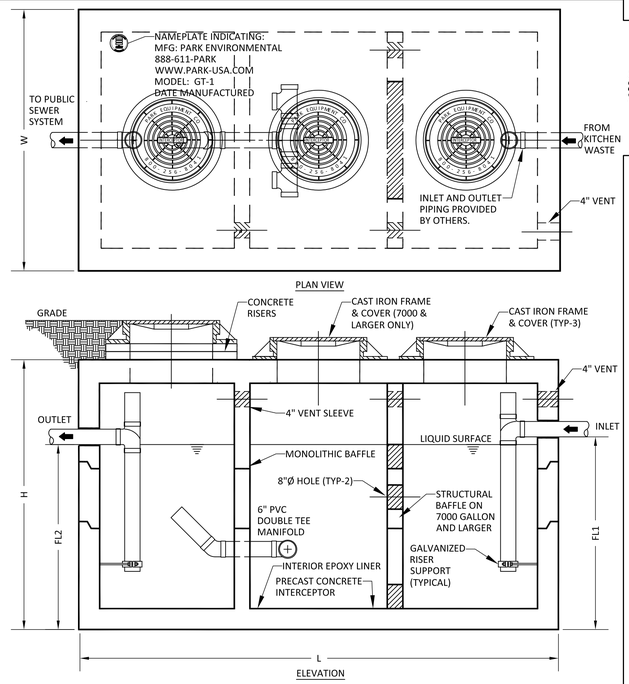


7 DRYWELL DETAIL

SCALE:N.T.S.

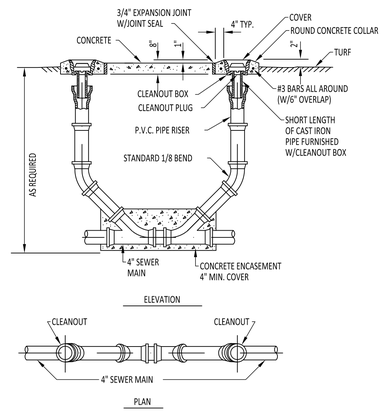


GREASE INTERCEPTOR SCHEDULE								
MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"

DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE INTERCEPTOR WITH ADEQUATE STRUCTURAL STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION. PROVIDE LARGER TANK IF REQUIRED BY LOCAL AUTHORITIES - VERIFY.

11 GREASE TRAP DETAIL

SCALE:N.T.S.



8 TYPICAL EXTERIOR TWO WAY CLEANOUT DETAIL

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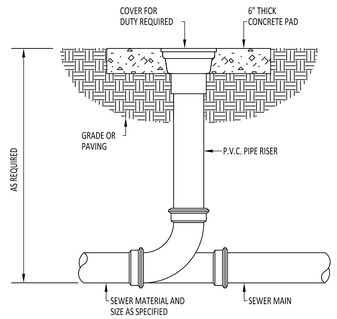

9 EXTERIOR CLEANOUT DETAIL

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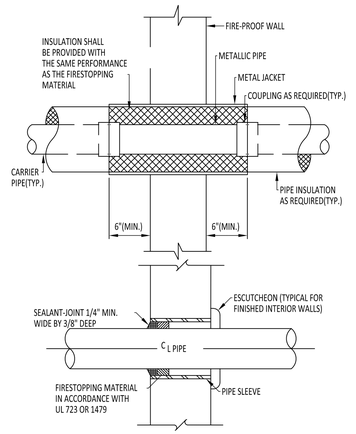

10 TYPICAL FIRE PROOF AND WALL PENETRATION

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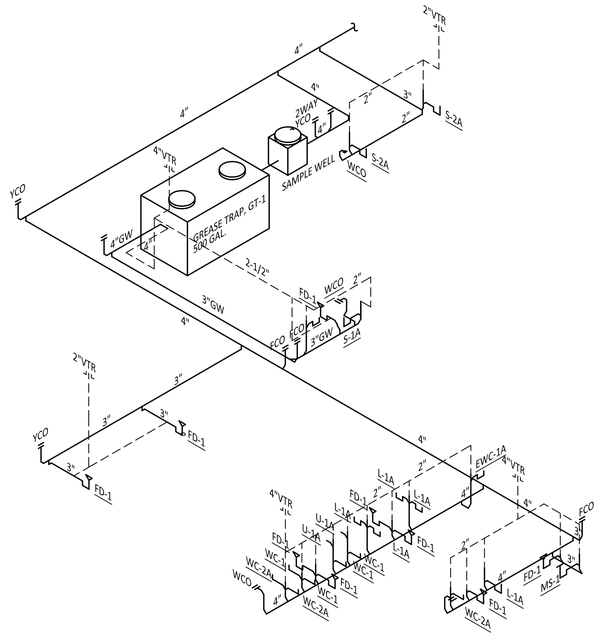

1 PLUMBING SEWER RISER DIAGRAM

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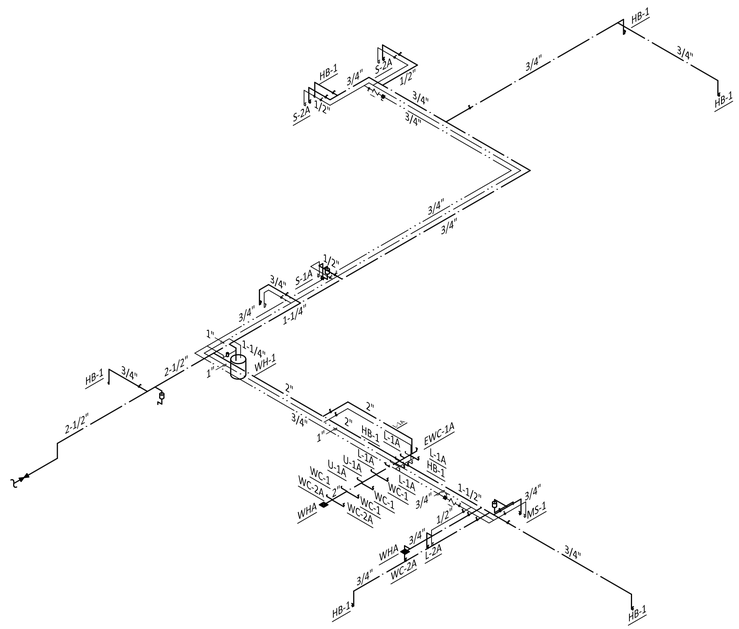

2 PLUMBING WATER RISER DIAGRAM

SCALE:N.T.S.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—— * ——	DOMESTIC COLD WATER LINE		BALL VALVE	CW	COLD WATER
—— ** ——	DOMESTIC HOT WATER LINE		BALANCING VALVE	DN	DOWN
—— ——	SANITARY SEWER VENT LINE		CHECK VALVE	F.F.E.	FINISH FLOOR ELEVATION
	SANITARY WASTE LINE		GATE VALVE	FU	FIXTURE UNITS
—CD—	CONDENSATE LINE	FCO	FLOOR CLEANOUT	GW	GREASE WASTE
—GW—	GREASE WASTE LINE	YCO	YARD CLEANOUT	I.E.	INVERT ELEVATION
—RD—	ROOF DRAIN LINE		FLOOR SINK	HW	HOT WATER
—OD—	OVERFLOW DRAIN LINE		FLOOR DRAIN	SS	SANITARY SEWER
	PIPE RISER		ROOF DRAIN	TP	TRAP PRIMER
	PIPE DROP		POINT OF CONNECTION	TYP	TYPICAL
	THERMOMETER		WALL HYDRANT	UND. LAV.	UNDER LAVATORY
	DIRECTION OF FLOW		HOSE BIBB	V	VENT
HWCO	WALL CLEANOUT	WHA	WATER HAMMER ARRESTOR	VTR	VENT THRU ROOF
P-1	PLUMBING RISER DESIGNATION	ABV. CLG.	ABOVE CEILING	CO	CLEAN OUT
02 P-3.1	PLUMBING DETAIL REFERENCE	B.F.F.	BELOW FINISH FLOOR		

NOTE: NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT

PLUMBING SCHEDULE

MARK	TYPE	CONNECTION				DESCRIPTION
		SS	V	CW	HW	
WC-1	WATER CLOSET FLOOR MOUNTED	4"	2"	1"	-	KOHLER 'K-4350' WELLCOMME VITREOUS CHINA, SIPHON JET, ELONGATED RIM TOILET WITH ZURN #2-6000-WS-1 FLUSH VALVE. SCREWDRIVER STOP K-3562, CHINA BOLD CAPS, BRASS FLOOR FLANGE, BOLWAX SEAL, LUSTRA SOLID PLASTIC OPEN FRONT SEAT WITH CHECK HINGE. WITH TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
WC-2A	WATER CLOSET FLOOR MOUNTED (HANDICAP)	4"	2"	1"	-	KOHLER 'K-4368' HIGHCLIFF VITREOUS CHINA, SIPHON JET, ELONGATED RIM TOILET WITH ZURN #2-6000-WS-1 FLUSH VALVE WITH A.D.A. COMPLIANT OSCILLATING HANDLE. SCREWDRIVER STOP K-3562, CHINA BOLD CAPS, BRASS FLOOR FLANGE, BOLWAX SEAL, LUSTRA SOLID PLASTIC OPEN FRONT SEAT WITH CHECK HINGE. WITH TRAP PRIMER CONNECTION WHERE SHOWN ON PLANS.
U-1A	URINAL WALL MOUNTED (HANDICAP)	2"	2"	3/4"	-	KOHLER "DEXTER" MODEL #K-5014-T, VITREOUS CHINA, 3/4" TOP SPUD INLET, WALL HUNG URINAL, 1.0GPF VALVE, ZURN #Z-6001XL-WS1-ADA FLUSH VALVE WITH A.D.A. COMPLIANT HANDLE OR EQUAL. FURNISH WITH CONCEALED URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM PLATES, ZURN MODEL #Z-1222 OR EQUAL.
L-1A	LAVATORY COUNTERTOP (HANDICAP)	2"	2"	1/2"	1/2"	KOHLER "PENNINGTON" MODEL #K-2196, DECK MOUNTED VITREOUS CHINA, 4" FAUCET CENTERS-THREE HOLE CONFIGURATION, A.D.A. COMPLIANT TWO BLADE HANDLE FAUCET, CHICAGO MODEL #802-317CP, ANGLE STOPS, FLEXIBLE RISERS, CHROME PLATED WHEELCHAIR LAVATORY STRAINER, CAST GRID DRAIN PLUG WITH STRAINER AND OFFSET DRAIN ASSEMBLY, 1-1/4" TAILPIECE McGUIRE #155-WC OR EQUAL, CAST BRASS P-TRAP WITH CLEANOUT, AND A.D.A. COMPLIANT DRAIN, RISERS AND VALVES COVERS TRUEBRO #102/105 OR EQUAL.
L-2A	LAVATORY WALL MOUNTED (HANDICAP)	2"	2"	1/2"	1/2"	KOHLER 'KINGSTON' MODEL #K-2006, WALL MOUNTED LAVATORY VITREOUS CHINA, 4" FAUCET CENTERS, TWO WRIST BLADE HANDLE FAUCET, CHICAGO MODEL #802-317CP, ANGLE STOPS, FLEXIBLE RISERS, CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, OFFSET TAILPIECE, PROVIDE A.D.A. PROTECTIVE COVERS AT WATER PIPING, VALVES AND DRAIN.
S-1A	STAINLESS STEEL SINK	2"	2"	1/2"	1/2"	DOUBLE COMPARTMENT, STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-3321-60-4". SELF RIMMING, 32"X21"X6", 4 HOLE ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH ELKAY MODEL "LK2433" HI-ARC, CHROMED METAL WING HANDLE, CONCEALED MOUNT FAUCET WITH VEGETABLE SPRAY AND "LK-35" STRAINER WITH BASKET.
S-2A	STAINLESS STEEL SINK	2"	2"	1/2"	1/2"	SINGLE COMPARTMENT STAINLESS STEEL SINK EQUAL TO ELKAY MODEL "LRAD-1716-60-3". SELF RIMMING, 17"X16"X6", 3 HOLE ON 4" CENTERS, 18 GAUGE, UNDERCOATED. COMPLETE WITH ELKAY MODEL "LK2432BH" HI-ARC, CHROMED METAL WRIST BLADE HANDLE, CONCEALED MOUNT FAUCET "LK-35" STRAINER WITH BASKET.
EWC-1A	BI-LEVEL ELECTRIC WATER COOLER	2"	2"	1/2"	-	COUNTOUR BI-LEVEL BARRIER-FREE FOUNTAIN EQUAL TO HALSEY TAYLOR HRFSEBP. ONE-PIECE, STAINLESS STEEL WITH BRUSHED SATIN FINISH, CONTOUR-FORMED BASINS. SELF-CLOSING VANDAL-RESISTANT PUSH BUTTON ON FRONT. VANDAL-RESISTANT, ONE-PIECE, CHROME-PLATED BUBBLERS WITH INTEGRAL HOOD GUARDS. REMOTE CHILLER EQUAL TO HALSEY TAYLOR SJ8-Q WITH WALL BOX ASSEMBLY 42612, CAPABLE OF DELIVERING 8.0 GPH OF 50°F WATER AT 90°F AMBIENT AND 80°F INLET WATER.
MS-1	MOP SINK FLOOR MOUNTED	2"	2"	-	-	TERRAZO, CORNER MOP SINK EQUAL TO FIAT "TSBC-1610" 24"X24"X12" WITH 6" DROP FRONT, STAINLESS STEEL RIM GUARD AND "MSG-2424" WALL GUARD. COMPLETE WITH "830-AA" SERVICE SINK FAUCET WITH 8" CENTERS, PAIL HOOK, AND VACUUM BREAKER SPOUT. COMPLETE WITH "832-AA" HOSE AND BRACKET, "889-CC" STAINLESS STEEL MOP BRACKET AND GRID STRAINER.
FD-1	FLOOR DRAIN	3"	2"	1/2"	-	ZURN MODEL Z-415-P, TYPE B STRAINER, LACQUERED CAST IRON TWO PIECE BODY WITH DOUBLE DRAINAGE FLANGE, WEEP HOLES, AND ROUND, ADJUSTABLE NICKLE-BRONZE STRAINER, TRAP PRIMER CONNECTION.
FCO	FLOOR CLEAN OUT	4"	-	-	-	GALVANIZED CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY, AND ROUND SCORED COVER WITH GASKET IN SERVICE AREAS AND ROUND DEPRESSED COVER WITH GASKET TO ACCEPT FLOOR FINISH IN FINISHED FLOOR AREAS.
YCO	YARD CLEAN OUT	4"	-	-	-	GALVANIZED CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY, AND ROUND CAST NICKEL BRONZE ACCESS FRAME WITH NON-SKID COVER. CENTER CLEAN OUT ON 18"X18"X6" THICK CONCRETE BASE FLUSH WITH FINISH GRADE.
HB-1	HOSE BIBB	-	-	3/4"	-	WOODFORD MODEL "26-P" CHROME FINISH WALL MOUNTED FAUCET, WITH BACK FLOW PREVENTER, AND LOOSE TEE KEY.
MV-1	THERMOSTATIC MIXING VALVE UNDER LAVATORY	-	-	3/8"	3/8"	UNDER LAVATORY THERMOSTATIC MIXING VALVE SHALL BE EQUAL TO LEONARD MODEL "170-BP-BRKT". COMPLETE WITH COLD BYPASS PORT AND MOUNTING BRACKET. OUTLET TEMPERATURE SHALL BE SET TO 110°F.
ICB	ICE CONNECTION BOX	-	-	1/2"	-	GUY GRAY MODEL "BIM-875" ICE CONNECTION BOX.
WH-1	WATER HEATER ELECTRIC	-	-	3/4"	3/4"	HUBBELL MODEL SE40-0-24SLR WITH A 2" FOAM INSULATED STORAGE TANK OF 40 GALLONS WITH 24 KW IN THE LOWER ELEMENT BANK. STORAGE TANK IS LINED WITH HYDRASTONE CEMENT AND THE ELECTRICAL CONTROLS OPERATE AT 208V, THREE PHASE, 60 HZ POWER. THE HEATING ELEMENTS SHALL BE HIGH QULAITY INCOLOY SHEATH ELECTRIC IMMERSION TYPE AND SHALL BE RATED AT 24KW WHICH WILL HEAT 98 GPH OF WATER AT 100°F RISE.
HWCP-1	HOT WATER CIRCULATION PUMP	-	-	3/4"	3/4"	HOT WATER CIRCULATION BRONZE PUMP SHALL BE EQUAL TO BELL & GOSSETT MODEL NBF-36, 1/6 HP, 3300 RPM, 270 WATTS, 115V/1PH/60Hz. PROVIDE WITH AUTOMATIC TIMER KIT.
GT-1	GREASE TRAP WITH SAMPLE WELL	4"	4"	-	-	500 GALLON GREASE TRAP EQUAL TO PARK EQUIPMENT MODEL No. "GT-500" COMPLETE WITH PARK EQUIPMENT SAMPLE WELL MODEL "SWB-154".

3 PLUMBING SCHEDULES

SCALE:N.T.S.

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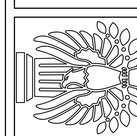

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