St. Francis Episcopal Church New Parish Hall Facilities, Covered Walkways, & Playground

Relocation





Concept Rendering - Aerial Shot



Concept Rendering - Parish Hall



Rector

September 13, 2021

Vincent L. Marino, Chair, Planning & Zoning Commission Charles Peterman, Planning & Zoning Commissioner Bill Burney, Planning & Zoning Commissioner Don Jones, Planning & Zoning Commissioner Margaret Rohde, Planning & Zoning Commissioner Dana Gompers, Planning & Zoning Commissioner-Elect

Dear Planning & Zoning Commissioners:

St. Francis Episcopal Church ("SFEC") has been pleased to have been an integral part of the City of Piney Point Village and its Community for over 70 years. We value our unique relationship, and we are very excited to present to you the plans for our new Parish Hall facility and the relocation of the Playground Equipment.

First, I would like to share with you a bit of the history of St. Francis Episcopal Church. Hopefully, this will put in context why we certainly need a new Parish Hall.

SFEC is one of 153 congregations in the Episcopal Diocese of Texas which in turn is one of the dioceses of the Episcopal Church in the United States of America. SFEC mission was established in 1949. In 1950, the Episcopal Diocese of Texas purchased three acres on Piney Point Road, and during that year a campaign was launched to raise funds to build a Parish Hall. In 1951 the first church service was held in the newly constructed Parish Hall. The original church, classrooms and church office were completed in 1956. The total acreage acquired was 11.3 acres.

In 2000, the original church was demolished and a new church which also included the nave, chapel, narthex, and parlor was constructed. However, the original Parish Hall remains and is 70+ years old and is beyond repair and can no longer adequately or safely serve the over 1,300 St. Francis Episcopal Church members. Additionally, churches today are evolving to meet a changing society; offering only set church service times on Sundays is no longer sufficient. Ancillary programs offered at various times throughout the week such as Bible studies, Wednesday night meetings and programs, outreach programs, church sponsored groups such as Girl and Boy Scouts and athletics require additional, dedicated space. St. Francis continues to strive to be relevant to current parishioners and potential new parishioners as it preaches the word of God in our neighborhood.

Year	Description
1949	St. Francis Episcopal Church mission established
1950	Diocese purchases 3 acres on Piney Point Road
1950	Campaign launched to raise funds to build (old) Parish Hall
1951	First service in "new" (old) Parish Hall
1952	Parish status granted
1955	"Forward with Faith" capital campaign for expansion
1956	Completed construction of church, classrooms and church office wing
Early 1980s	(old) Parish Hall remodeled
2000	Completed construction of new church, nave, chapel, narthex, and parlor
2018	Launched Generations of Faith ("GOF") capital campaign to raise funds for a new Parish Hall

In conjunction with bringing the Parish Hall project forth to the City of Piney Point Village, the Church has worked to make right the three Specific Use Permit ("SUP") items from the prior 2000 church construction:

Rector

- 1. The columbarium was granted a SUP in 2018,
- 2. Landscaping Japanese Yews were planted at the front of the church, and
- 3. A SUP is being sought in conjunction with this project/request for relocation of the Playground Equipment outside the 30 feet greenbelt.

For almost four years since the launch in 2018, of the St. Francis Generations of Faith ("GOF") Capital Campaign for the new Parish Hall, the Church has experienced several unprecedented delays and of course, delays do add to the project cost:

- COVID 19 shut down the progress of this project plus many other projects across the country and world for over a year and half, and
- The extraordinary, unprecedented freeze in February 2021 caused additional delays.

St. Francis Episcopal Church is now ready to present this project at the September 23, 2021, Public Hearing and for it to be reviewed by the City of Piney Point Village's Planning & Zoning Commission.

To involve and to inform the surrounding neighbors about this project, St. Francis has exceeded the City of Piney Point Village requirements:

- Two "Meet and Greets" were held for this project, the first on March 21, 2021, and the second on May 12, 2021. Typically, only one "Meet and Greet" is required.
- Certified return request letters and regular mail letters regarding the Public Hearing to be held on September 23, 2021, were sent to neighbors of SFEC within 300 feet versus the required 200 feet of the property line.
- The Planning & Zoning Commission meeting is being held in SFEC's old Parish Hall with the intent of making it more convenient for the surrounding neighbors to attend.

I would like to summarize several of the items included in this package. We are very proud of the extraordinary efforts we have done for this project.

- Architecture of Parish Hall Architecturally, the new Parish Hall will complement the other structures on the campus and will present a welcoming "front door" to the public.
- **Building Size and Height** A survey and needs assessment by the St. Francis Building Committee and architect was performed prior to designing the Parish Hall facility. The committee analyzed both historical building usage, current building usage, plus projected what future needs would be, along with considering the church's role in the community (such as providing a facility for City of Piney Point public hearings). The design of the building, of course, took into account that this would be an extension of the church, a sacred place for the worship of God.

The Parish Hall facility will be approximately 24,000 SF and will consist of a Parish Hall, kitchen, offices for the Rector, Music Director, church staff, volunteers, meeting rooms for Christian education, guild room, storage, and restrooms. The building will have two floors, not exceeding 35 feet in height which includes the parapet for shielding the HVAC equipment.

Three factors drove the two-floor design:

1. The current Parish Hall facility has two floors that were used until it became unsafe for uses other than storage,

Rector

- 2. The City of Piney Point Village impervious surface requirements of less than 50%, and
- 3. Increased demand for religious related activities, studies, community outreach which correlates to more meeting rooms.
- **Building Standards** ADA compliant, latest building codes, fire sprinkled, new Type II fire resistive construction, and energy efficient for electrical, plumbing, air conditioning and heating.
- **Relocation of the Playground Equipment** The existing playground will be relocated south to be outside of the 30 feet greenbelt. Drainage was taken into account with this relocation.
- Tree Disposition Plan An experienced, highly recommended Urban Forester was contracted with to perform the tree work. 204 qualified new trees that meet City of Piney Point Village ordinance requirements of 3" caliper measured at 6" above grade, will be planted on the St. Francis site. The tree disposition plan was submitted and approved.
- Traffic Plan Parish Hall construction specifically has been scheduled to start right after school is out in May 2022, which will greatly help traffic flow. The traffic plan for when school starts has been designed by the school with help from off duty traffic police officers in conjunction with the church's construction schedule and location. As needed, Ecclesia Church can provide a carpool queuing area.
- Impervious Surface The Church is meeting the City of Piney Point Village requirements. The
 Playground Equipment which will be moved outside the 30 feet greenspace has bark mulch as its filler
 which will sit directly on the ground. The City of Piney Point Village considers this material to be
 impervious.
- Drainage Additional drainage calculations have been added for lots along South Cheska.
- **Site placements** The distance between the proposed Parish Hall facility and South Cheska property lines is 84.1 feet. Contained within that 84.1 feet is a 30 feet greenbelt starting at the South Cheska property line.
- **HVAC** New commercial grade equipment is designed to be most efficient in its operations. By placing the HVAC equipment on the roof screened by the parapet within the 34.5-foot building height, noise is further reduced compared to the equipment being on the ground level.
- Construction Company Tellepsen Builders, a well-respected company organized in 1909.
- Security /Safety The school and church have different security and safety requirements with the school being the more restrictive as defined by the Episcopal Diocese of Texas. The new Parish Hall will have a defined separation between these two entities.

Rector

St. Francis Episcopal Church Group, SFEC Professional Consultants and City of Piney Point Village and Memorial Villages Personnel – Listed below are the groups working on and involved with this project.

St. Francis Episcopal Church

Stuart A. Bates, Rector, St. Francis Episcopal Church George Jumonville, Chair, Building Committee, St. Francis Episcopal Church Louise Richman, CPA, Treasurer, Member of St. Francis Episcopal Church Vestry Curt Wissmiller, Director of Facilities

SFEC Professional Consultants

William H. Merriman, Principal, Merriman Holt Powell Architects Colin Gallatin, Project Architect, Merriman Holt Powell Architects Tellef Tellepsen, Principal, Tellepsen Builders C.N. Koehl, Urban Forester, Koehl Urban Forestry, Inc. Lonnie Sike, P.E., Civil Engineer Ashton Taylor, P.E., Acoustical Engineer

City of Piney Point Village and Memorial Villages

Annette Arriaga, Director of Planning, Development & Permits, City Building Official Cary Moran, City of Piney Point Village Urban Forester Mike Montgomery, Memorial Village Water Authority Rusty Kattner, Memorial Villages Fire Marshall

I will close with giving you, the Planning & Zoning Commission members, the sincerest thanks on behalf of all the parishioners of St. Francis Episcopal Church for meeting with us to review and to consider our church's long overdue project. The mission statement of the St. Francis Episcopal Church has been our guiding principle throughout this process "Within the Body of Christ, the St. Francis community is committed to nurturing the spiritual, educational, and physical development of all God's people" including especially the City of Piney Point Village community.

Thank you.

Peace and Grace,

The Rev'd Stuart A. Bates Rector, St. Francis Episcopal Church

Suart A. Bates

Index

Cover Letter	3
Agenda	8
History & Capital Campaign	9
Detailed Scope of Work	13
Impervious Calculations	25
Tree Disposition	34
Tree Types	42
Architecture Plans	51
Elevations	53
Perspectives	56
HVAC Acoustical Report	57
HVAC Units	71
Social Distancing Impact	94
Contractor Letter to Neighbors and COVID Mitigation Plan	97
Construction Schedule and Plan	102
Vehicle Traffic Plan During Construction	105
Letter to Neighbors Informing of Project and Recipients	110
Project Directory	133

Introduction and History

Rev. Stuart A. Bates Louise Richman

Design

Colin Gallatin

- Introduce Experts
- Demolition
- Site Drainage and Trees
- · Architecture Addition and Renovations
- MEP HVAC Noise
- Traffic
- Life Safety ADA
- Additional Scope Request from PPV Playground Shift
- Delays to project Columbarium, Covid, and Freeze

Open Discussion

Key Team Members / Experts

Rector	St. Francis Episcopal Church
Chairman Building Committee	St. Francis Episcopal Church
Treasurer	St. Francis Episcopal Church
Director of Facilities	St. Francis Episcopal Church
Assistant Head of School	St. Francis Episcopal School
Architectural Designer	Merriman Holt Powell Architects
General Contractor	Tellepsen Builders
General Contractor	Tellepsen Builders
Civil Engineer	Sikes Engineering
Urban Forester	Urban Forestry, Inc.
Acoustical Engineer	SLR
	Chairman Building Committee Treasurer Director of Facilities Assistant Head of School Architectural Designer General Contractor General Contractor Civil Engineer Urban Forester

Founded in Faith 1949-1952



- 1949 St. Francis Episcopal Church mission established
- 1950 Diocese purchased 3 acres on Piney Point Rd
- 1950 Campaign launched to raise funds to build Parish Hall
- 1951 First service in new Parish Hall
- 1952 Parish status granted; The Rev. G. Richard Wheatcroft named Rector; St. Francis Episcopal School founded





2

Founding of SFEC and the Parish Hall

St. Francis Episcopal Community, Master Plan 2000





Parish Hall and other education spaces were put on hold

3

2000 Master Plan aerial shot

Capital Campaign Timeline



2018	Launch quiet phase Vestry and Committee	Fall
2019	Quiet phase fundraising continues	January - December
	Campaign presentation at Annual Parish Meeting	January
	Campaign announcement Easter Sunday	April
2020	Diocesan Resource Team approves project	March
	COVID disruption limits fundraising	March - December
	City of Piney Point Village limited operations	March - December
0001	Deleverede francision	Marrola Dagaralagr
2021	Relaunch fundraising	March - December
2022	Fundraising continues	January - December
	Parish Hall – Final Service	May
	All church celebration	June
	Site prep, demolition and construction begins	June - December
	Beam signing celebration	October
2023	Construction and fundraising continues	January - May
	Construction complete	March - April
	Blessing of the Building	April/May TBD
The tim	eline will continue to be refined based on the fundraising	progress and construction

he timeline will continue to be refined based on the fundraising progress and construction timeline

4



July 30, 2020 Revised August 24, 2021

Planning and Zoning Commission Piney Point Village 7676 Woodway, Suite 300 Houston, TX 77063

Piney Point Village, Merriman Holt Powell Architects is pleased to present this narrative and detailed scope of work for the addition of a new Parish Hall with accompanying church offices, church meeting rooms, and nursery to replace the existing 70+ years old Parish Hall at St. Francis Episcopal Church. Included is demolition, new site work, urban forestry, architecture, mechanical, electrical, plumbing, fire protection, ADA compliant accessibility, monument signage, and space program.

For the purpose of this document, Merriman Holt Powell Architects will be identified as **MHP**, St. Francis Episcopal Church as **SFEC** and Piney Point Village as **PPV**.

A. SCOPE OF WORK

The scope of work will entail a two-story addition with approximately 24,000 SF (15,000 SF on level 1 and 9,000 SF on level 2) of Type 2B construction for an A-3 occupancy. Programmed spaces include a new fellowship space (Parish Hall) with an adjacent kitchen, church administrative space, church meeting rooms, a nursery, guild room, and restrooms. The additions will be constructed using a class-A steel framed structure and cold formed metal framed exterior walls with brick and plaster veneer. Scope includes tying into the existing structure, HVAC, electrical, plumbing, fire sprinklers, interior finishes and related site work. The existing Parish Hall, classrooms, and three 'stand-alone' structures along the north portion of property will be demolished as part of the scope of work.

- 1. **Demolition** The demolition portion of the project will include the removal of site flatwork, trees (see c. Urban Forestry below), buildings and associated mechanical, electrical, and plumbing work.
 - a. Flatwork SFEC is proposing the removal of 33,120 SF of impervious flatwork. This includes the current north asphalt parking / drive (23,260 SF) and walkways (9,860 SF) associated with the scheduled buildings being demolished.
 - Trees Currently there are 31 trees scheduled to be removed due to poor condition, being located in right of way, not PPV qualified trees that count towards density, or are in conflict with new construction.
 Re: G005 for detailed narrative from Urban Forester.
 - c. Architecture Currently, there are four (4) buildings and a portion of a fifth that are 60+ years old scheduled to be removed, for a total of 15,695 SF of impervious surface. This will also provide the necessary pervious area to the north edge of the property by returning it back to a 'green belt' of 30FT. Re: A101 in the drawing set.



- d. MEP (Mechanical, Electrical, Plumbing) All associated MEP equipment with the buildings being demolished, will also be demolished. This includes nine (9) existing condenser units as well as the old chiller yard on the ground just west of the existing Parish Hall. SFEC had sound readings conducted on all units for reference and comparison to the new design. Re: Sound Measure Data document.
- 2. Site Work (flatwork) SFEC is proposing the addition of 25,941 square feet of impervious flatwork. This includes the construction of a new concrete parking and drive at the north end of the campus (21,564 sf) to replace the existing asphalt drive and new sidewalks (4,377 sf) adjacent to the new Parish Hall addition.
- 3. Urban Forestry (Tree Work) The tree work on site will consist of tree preservation and the removal of trees. Currently there are 31 trees scheduled to be removed due to poor condition, being located in right of way, are not qualified trees that count towards density, or are in conflict with new construction. Re: G005 for detailed narrative from Urban Forester. With the removal of these 31 trees, we are scheduled to plant 204 new trees that meet PPV requirements. Re: G009.
- **4. Architecture** The additions and renovations will entail approximately 24,000 SF of Type 2B construction for an A-3 occupancy. The additions will be constructed using steel frame structure and cold formed metal framed exterior walls with brick and plaster veneer. Scope includes tying into the existing structure, HVAC, electrical, plumbing, fire sprinklers, and interior finishes. The height of the structure is two stories and is not to exceed the maximum 35' height as set by PPV ordinance. The new addition will sit 84' south from the north property line, Re: A300. One 3100 MRL Traction Elevator by Schindler will be installed and inspected by a third party.
- **5. Mechanical** Mechanical systems will be packaged DX rooftop units and a VRF system. The estimated new building tonnage is 80 tons. New roof mounted equipment includes a 19 ton packaged DX rooftop unit, 6.5 ton DX (Dedicated Outdoor Air System) DOAS unit, 11 ton DX DOAS unit, 22 ton condensing unit, 16 ton condensing unit, and a kitchen exhaust fan.
 - a. Existing Spaces
 - i. The existing church office space on the first floor to be renovated are served by existing single duct terminal units with hot water reheat coils. The systems serving the space will be tested and balanced by a TAB contractor prior to completion of construction to measure airflows, water flows, and temperatures. The diffusers and ductwork will be relocated as necessary to serve the existing renovated church office spaces. The system will be rebalanced for the new spaces.



b. Parish Hall

i. Parish Hall to be served by dedicated single zone 19 ton packaged rooftop unit with DX cooling coil, gas heat, ERV (Energy Recovery), economizer and demand-controlled ventilation. The unit will be located on the second-floor roof and screened from view by the 6' parapet walls of the roof well.

c. First and Second Floor Spaces

i. The other first floor spaces and the second floor are to be served by DX/VRF heat pump (simultaneous heating/cooling ductless ceiling cassettes or ducted fan coils) all connected to roof mounted outdoor condensing units. There are 10 zones on the first floor of the new building, not including the Parish Hall. Two FCU's will be used to serve the kitchen. There are 6 zones on the second floor of the new building. Dedicated packaged rooftop DOAS units with ERV, DX cooling coils, and gas heat will serve fan coil units or diffusers in each room.

d. Exhaust

- **i.** The grease exhaust system for kitchen hood will be served by a grease fan located on roof.
- **ii.** The makeup air for the kitchen hood will be ducted from the first floor DOAS unit to the hood.
- **iii.** General exhaust for toilet rooms and janitor closets will be ducted to the DOAS units for heat recovery.

e. Controls / Energy Management

i. Provide web based DDC control and energy management system; with monitoring and operator interface via the existing campus BAS system (believed to be Siemens). Update campus operating system to current software version.

f. Test and Balance

- i. Include independent Air Test and Balance of HVAC systems
- 6. Electrical The electrical work will consist of demolishing / removing old electrical systems and associated wiring and devices. Once removed, the new addition will include the installation of new electrical systems per the drawings and information below.
 - a. Existing Building Service to be removed
 - i. The existing building service starts from a 75kVA pole mounted CenterPoint transformer serving overhead to an existing 800A, 240 delta/120V switchboard. This switchboard currently serves some three-phase mechanical equipment, the existing parish hall, kitchen, and offices.



b. New Building Service

i. The new building service shall be a 480Y/277V underground service from CenterPoint transformers. This <u>underground</u> service is to serve a 1200A, 480Y/277V switchboard that is estimated to provide service to the proposed scope. Large mechanical equipment and motors are to be served at 480V, three-phase. Fractional horsepower motors, general purpose receptacles, electronic devices etc. are served at 120V. Lighting is to be served at 277V. Some loads may be served at 208Y/120V. Panelboards and switchboards shall have spare amperage and breaker space. Transient voltage surge suppression equipment will be provided at main service.

c. Lighting & Lighting Controls

- i. All interior lighting shall be LED. Exit and egress lights shall be LED with battery packs. Parking lot/site lighting adjacent to building shall be wall packs. Any existing pole lights are to remain. Landscape lighting is to be controlled by photocell and time clock. Lighting levels shall be per IES recommendations.
 - 1. Lighting controls consisting of:
 - a. Occupancy sensors per code
 - b. Daylight switching zones, per code
 - Exterior lights on / off per photocell and schedule from BAS
 - **d.** Parish Hall: dimming and scenes via wall controller; daylight harvesting

d. Power

- i. All new switchboard, panels, cabling, raceways and wiring devices shall be provided for new building. Power connections required for HVAC equipment, elevators and special equipment. Power required for low voltage system controllers (IT, PA, security, fire alarm, HVAC controls, etc.). Occupancy sensor control of selected 120-volt convenience receptacles per energy code.
- e. Emergency Generation System
 - i. Battery packs will be used for egress and exit lights.
- f. Grounding
 - i. Grounding will be provided per the National Electric Code.
- g. Fire Alarm System
 - i. Entire new building and renovated area to have addressable type fire alarm, including area smoke detectors, duct detectors, pull stations, strobes, audio alarms, fire sprinkler interface and other devices. Connect to existing campus system and provide expansion modules and software updates needed to accommodate the new building.



- **ii.** Existing buildings to be removed are not compliant or fire sprinklered.
- 7. Plumbing The plumbing work will consist of demolishing / removing old plumbing systems and all associated items and fixtures. Once removed, the new addition will include the installation of new plumbing per the drawings and information below.
 - **a.** Domestic Water:
 - i. A new 3-inch underground domestic water service will be provided to the building from the site water main. The domestic water service will enter the facility in the Parish Hall Storage room with a main shut-off valve, backflow preventor, water meter (outside building) and pressure gauge.
 - ii. Throughout the facility, domestic cold water will be routed to restrooms, mechanical equipment rooms and other areas requiring domestic cold water. Domestic cold water will also be supplied to the domestic water heaters. The domestic cold-water piping systems will be routed throughout the facility, and sized based on the 2015 Edition of the International Plumbing Code. The maximum design velocity for the piping systems will be 7 feet per second. The domestic cold-water piping system will be insulated to prevent condensation from occurring on the exterior of the pipe.
 - iii. The domestic hot water will be generated using condensing high efficiency low Nox natural gas fired water heaters with integral storage tanks. The storage tanks will be constructed of steel with a phenolic or glass internal lining. The storage tanks will be insulated in order to meet ASHRAE 90.1 requirements for tank losses. The water heaters will deliver and store hot water at 140 degrees F. The 140-degree F hot water will be supplied and circulated throughout the building. Thermostatic mixing valves will be provided for each bank of restroom lavatories and break room sinks to provide a maximum of 110-degree F hot water to those plumbing fixtures to protect against scalding. The 140-degree F hot water system will be recirculated using an in-line circulation pump to maintain the hot water temperature to within 10 degrees of the supplied temperature.
 - iv. The domestic hot water piping system will be sized similar to the domestic cold-water system, except, the system will be designed with a maximum velocity of 5 feet per second. The hot water supply and return piping will be insulated to minimize heat loss.
 - v. Service valves will be provided at each branch line serving two or more plumbing fixtures. All plumbing fixtures and equipment connections will be provided with local stop valves. Additional service valves will be provided to isolate the system for maintainability.
 - vi. Access panels will be provided with adequate space to operate the valve(s) in walls and non-accessible ceilings.



- **vii.** A shock arrestor will be provided on all water rough-ins serving multiple plumbing fixtures and kitchen equipment. Single plumbing fixture rough-ins will be provided with air chambers.
- viii. A reduced pressure type backflow preventer will be provided on the make-up water connections to mechanical equipment. Trap guards will be provided to each floor drain and floor sink, automatic electronic type trap primers will be provided for large volume floor drains and floor sinks and all drains in the food service areas.
 - ix. The domestic water piping will be Type "L" hard drawn copper conforming to ASTM B88 with pressure rated copper fittings with lead free soldered joints or Viega Pro-press joints.

b. Sanitary Waste and Vent:

- i. A complete waste and vent system will be provided to collect sanitary waste from all plumbing fixtures, floor drains, and any other equipment, in accordance with the plumbing code.
- ii. The drainage piping system will be designed with a minimum slope of 1/4-inch per foot for pipe sizes up to 3-inch and 1/8-inch per foot for sizes 4-inch and larger. The building will have one 6" sanitary sewer line that will discharge to the site sanitary sewer system.
- **iii.** Floor and wall cleanouts will be strategically placed to avoid being located in sensitive areas.
- iv. Floor drains will be provided for each air handling device, equipment requiring drains, toilet rooms with water closets, and mechanical equipment rooms. There will also be indirect drains throughout the building dedicated to pick up HVAC condensate. The floor drains and indirect drains will have p-traps, be vented, and connected to the building sanitary system.
- **v.** Each floor drain will be provided with a p-trap and will have trap seal protection.
- vi. There is a 3-compartment sink in the kitchen area, therefore a grease interceptor is required. The grease interceptor will be located outside and will discharge to the sanitary sewer system.

c. Storm Drainage:

i. A complete roof drainage system will be provided to remove storm water from the building roof areas, and discharge to the underground rainwater collection areas. There will be (1) 8" storm stub-out from the building. The roof will be provided with an adequate number of drains to prevent water ponding and minimize roof slope. The roof drainage system shall be sized based on 4.5 -inches per hour rainfall rate, according to Chapter 11 of the 2015 Edition of the International Plumbing Code.



- ii. Overflow drains will be provided to protect the roof in case of a roof drain blockage. The overflow drain lines will be separate from the Storm lines per plumbing code and will discharge above grade.
- iii. The roof drainage system will be insulated to prevent condensation from occurring on the exterior of the pipe. Roof drain bodies, overflow drain bodies and the horizontal piping from each drain will be insulated, extending to the first vertical drop and any horizontal offsets that occur.
- iv. Above ground storm sewer and overflow drain piping will be CISPI standard 301, service weight, no-hub cast iron pipe with DWV pattern fittings and heavy-duty no-hub couplings, for sizes 8-inch and less. For pipe sizes over 8-inch, bell and spigot fittings with Tyseal type gasketed joints, will be used. Underground storm piping will be service weight cast iron with asphaltic coating with DWV pattern bell and spigot cast iron fittings and Tyseal type gasketed joints.

d. Plumbing Fixtures:

- i. Plumbing fixtures will be Grade A commercial quality and will be low water consumption type fixtures. Water closets will be 1.28 gallon per flush fixtures. Lavatories will have 0.5 gpm, hard wired, sensor operated faucets and the sinks will have a 1.5 gpm flow control device. Water closets and urinals will be wall mounted and provided with concealed support carriers. Lavatories, mop sinks and kitchen sinks will be provided with domestic hot and cold water. Urinals and toilets will be provided with hard wired, sensor operated controls. All vitreous china fixtures will be white in color. Where applicable, fixtures will be in compliant with the Americans with Disabilities Act.
- ii. Wall hydrants will be provided on the exterior walls to provide wash down of entries, loading dock and other exterior areas around the building. Hydrants will be freeze-proof recessed type with hinged door, integral vacuum breakers and loose key.
- **iii.** A hose bibb will be provided in each mechanical room, and under the counter in each restroom. Each hose bibb will be equipped with a non-removable vacuum breaker, and lock shield.

e. Natural Gas System:

i. Natural gas will be provided to the building by the utility company, from a natural gas main located on the site. A natural gas meter by Centerpoint with regulator will be located outside of the building. Prior to entering the building, the gas pressure will be regulated to a reduced pressure by Centerpoint. Downstream of the pressure regulator, natural gas will go into the building. The natural gas piping inside the building will be piped to gas fired domestic water heaters in a mechanical room and to food service equipment located in the Kitchen. The natural gas piping system will be sized based on the National Fuel Gas Code.



f. Elevator Sump Pump System:

i. A submersible sump pump will be provided in the elevator pit sump. The pump on/off operation will be automatically controlled with a float switch and will discharge to the sanitary sewer system. A monitoring panel will be located in the elevator shaft which will alarm when the elevator sump pump float switch activates. The monitoring panel will be used strictly as an alarm panel.

g. Fire Protection:

- i. The building will be completely protected with a wet automatic sprinkler system throughout all areas. The systems shall be designed to meet NFPA requirements.
- ii. A 6-inch fire water service will be provided to each floor of the new addition from the existing building fire mains on each floor. Based on meeting notes from discussion with the Memorial Village Fire Marshal, the existing building fire protection system is adequate for the addition and a fire pumping package will not be required.

h. Sprinkler System:

- i. The existing buildings scheduled to be removed are not currently protected with an automatic fire sprinkler system. The new facility will be protected throughout with a wet automatic fire sprinkler system. The system shall be designed in accordance with the 2010 Edition of NFPA 13. The system will be hydraulically calculated to deliver adequate water pressure and floor coverage, based on Ordinary Hazard Group 1 occupancy for the Mechanical Room type areas and Light Hazard occupancy for the office and administrative type areas.
- **ii.** The sprinkler system components will be UL listed. Sprinkler heads in suspended ceilings will be located in the center of ceiling tiles.
- **iii.** Sprinkler heads will be quick response concealed type with white finish in all areas with ceilings.
- **iv.** Sprinklers located in areas without ceilings will be quick response, bronze finish, upright or pendant types.
- v. The maximum spacing for sprinklers will be 15 feet.
- vi. The maximum area per sprinkler system zone will be 52,000 SF. The sprinkler supply line for each sprinkler zone, on each floor will consist of a control valve, equipped with a supervisory switch, and a flow switch, to activate local and remote alarm signaling devices. An inspector's test connection will also be provided to serve each sprinkler zone.
- **8. Monument Signage** There will be a new St. Francis Episcopal monument sign to replace the existing wooden sign per Sec. 74-281 of the PPV municode. The new sign will be 4' tall x 14' wide (56 SF) and constructed with a masonry to match existing and cast stone. Re: A121 for plans and 3D views

MHPA

- **9. Space Program** Programmed spaces include a new fellowship space (Parish Hall), storage, a kitchen, church meeting rooms, a nursery, restrooms and church administrative space.
 - a. Parish Hall The new fellowship space (Parish Hall) will consist of one large main multi-function space at 3,146 SF. This replaces the 2,085 SF Parish Hall that's scheduled to be demolished.
 - The new Parish Hall architecture will complement the existing campus structure, specifically, the mansard roof parapet material and detail. The space will have insulated glass windows to allow the use of natural light, as well as, interior mechanical window shades to control the light in a presentation setting.
 - **b.** Parish Storage The storage space provided for the Parish Hall on level 1 will house the furniture used for various functions in the Parish Hall throughout the year.
 - The main storage on the second floor will have designated zones that are assigned to various groups through the church. The total area for all proposed storage is 2,945 SF; this replaces the previous 2,697 SF of storage that was removed.
 - c. **Kitchen** The new kitchen scope includes preparation, pantry, and janitorial room with mop sink. Within the kitchen there are 5 zones clean side, dirty side, preparation, cook area, and coffee bar. The new kitchen will receive all new commercial grade equipment and exhaust hood to replace the existing equipment. Re: FS-1. Total area of new kitchen and associated spaces is 992 SF, replacing the previous 642 SF of existing kitchen.
 - d. Church Meeting Rooms The second-floor addition contains 4 meeting rooms in total to be used by the church for multiple church activities. Each room has millwork for storage and a sink and whiteboard for convenience. These classrooms will not be used by the school as they lie outside the school's security boundary.
 - Total area of new meeting rooms is 3,828 SF, replacing the previous 8,424 SF of existing classroom buildings.
 - e. Nursery The existing nursery is to be relocated to allows the expansion of the existing church offices and to tie the new addition into the existing building while providing an identifiable church entrance to the administrative offices. The Nursery will also have a dedicated restroom for the infants and toddlers.
 - Total area of new Nursery is 486 SF, replacing the previous 768 SF Nursery.
 - f. Offices The new office / administrative suite will consist of the individual church offices (new and existing), the Rector's office, a reception area, a work area with storage, conference rooms, and a music ministry office and music equipment storage.
 - The new 6,008 SF office suite area consolidates in one central location all staff and admin areas that were previously located in buildings being demolished.



- **10. Security & Health Safety Protocol** The new Church addition will take a stringent approach to security and follow those guidelines set by the school's security protocol
 - a. Security SFEC will have a defined separation between the church and school. This will allow visitors coming to the campus for the church to bypass the security check in put in place by the school and the Diocese. The new church meeting rooms will be outside this security perimeter and therefore will not be used by the school.
 - b. Health Safety Covid In these current times SFEC and the community must practice safe social distancing to help keep the spread of viruses down. SFEC will follow the social distancing protocols and maintain proper distance when assembling in groups for meetings or any other church activity.

B. SPECIAL WRITTEN REQUEST

- 1. Rooftop mounted Mechanical Equipment
 - i. Addition of four (4) pieces of mechanical equipment and two (2) air cooled condensing units on the roof of the new Parish Hall
 - **ii.** Will sit within a roof well to conceal the units from sight, sound pollution, and to keep them below the required 35' maximum height from avg. natural grade.
 - iii. SFEC had a professional acoustician take readings of the existing (10) HVAC units on campus from the property line as well as provide projected numbers for the newly designed units within the new rooftop well. Those charts as well as narrative can be provided.

C. RESPONSES TO ATTENDEES OF THE NEIGHBORHOOD MEET AND GREETS

1. Trees

- i. Re-position Eagleston Hollys. Six (6) along the North Green Belt and four (4) along the west edge of property near the baseball field
- ii. Substitute thirty (30) Japanese Yews with thirty (30) Little Gem Magnolias

2. View from second floor Church Meeting Rooms

i. A translucent window film will be applied to the second-floor church meeting room windows facing towards the North.

3. Playground

i. The existing playground will be relocated south to be outside of the 30' greenbelt

4. Existing Portable Storage Buildings

i. Pink portable buildings to be painted a neutral color

5. Improved Drainage

i. Civil engineer included Lot 19, 20, and 21 along Cheska in SFEC overall drainage calculations. RE: C5.0



6. Construction Fence Screen

i. SFEC will provide a green mesh screen at the construction fence facing Piney Point

We are excited about the opportunity to work with you on this important step in the life of St. Francis Episcopal Church, Piney Point Village, and the surrounding neighborhood!

Kind regards,

Merriman Holt Powell Architects

William F. Meriman

William H. Merriman, AIA

Lot Coverage (Impervious Calculations)



St. Francis Episcopal Church

CIVIL ENGINEERING REPORT HARRIS COUNTY, TEXAS

VERIFICATION OF IMPERVIOUS AREASFOR PROPOSED SITE DEVELOPMENT.



PREPARED BY: STEVEN T. NOLAN, P.E.

August 24, 2021

Revision 1

Prepared by:	Checked by:	Approved by:	
Steven T. Nolan, P.E.	Chuck Fuhrman		

Lot Coverage (Impervious Calcs) TELLEPSEN

Project: St. Francis Site - Impervious Area Verification

St. Francis Episcopal Church is proposing to develop an existing site located on the North side of Piney Point Road in the City of Piney Point Village. Location and details are provided in the attached survey drawing.

Area Designation	Sq. Ft. Area
Impervious Area Buildings, Covered Basketball, Sheds, Dugouts	142,691.94
Impervious Area Paving	130,213.52
Impervious Area Walks	41,292.80
Impervious Area Concrete w/ Rubber Mat	1650.74
Total Site Area	632,308.00

The total impervious area proposed has been verified as 315,849 sq.ft. Total % of impervious surface is **49.95**%.

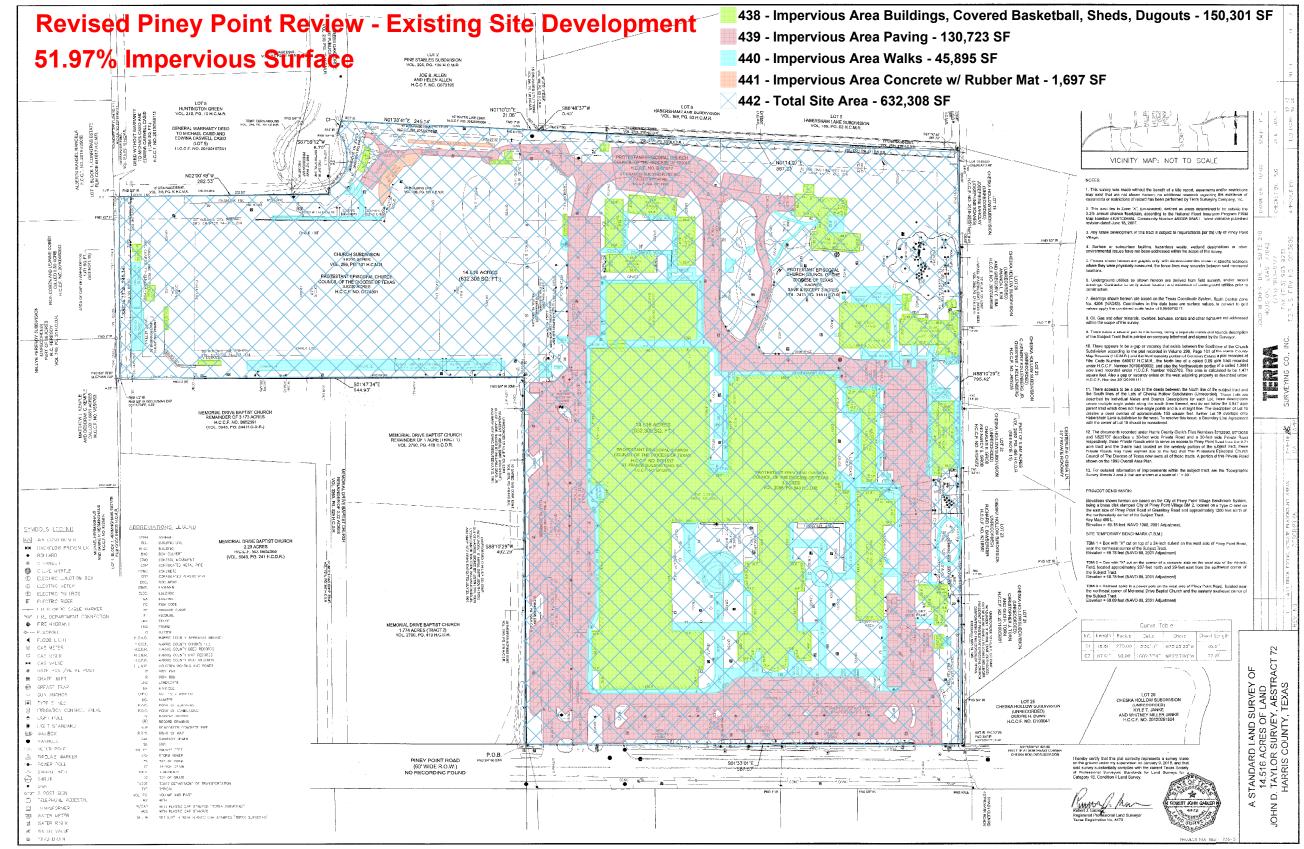
The total proposed impervious surface area has been reviewed and verified to encompass slightly less than 50% of the site development. Specifically, the total impervious area, per proposal, incorporates 49.95% of the total site area. Rev-1 Revised area includes new playground section, eliminates several parking spaces. The attachments provide impervious area designations and calculated square footage for individual sections of the paving, walkways, buildings, structures and concrete for review.

Respectfully submitted for approval,

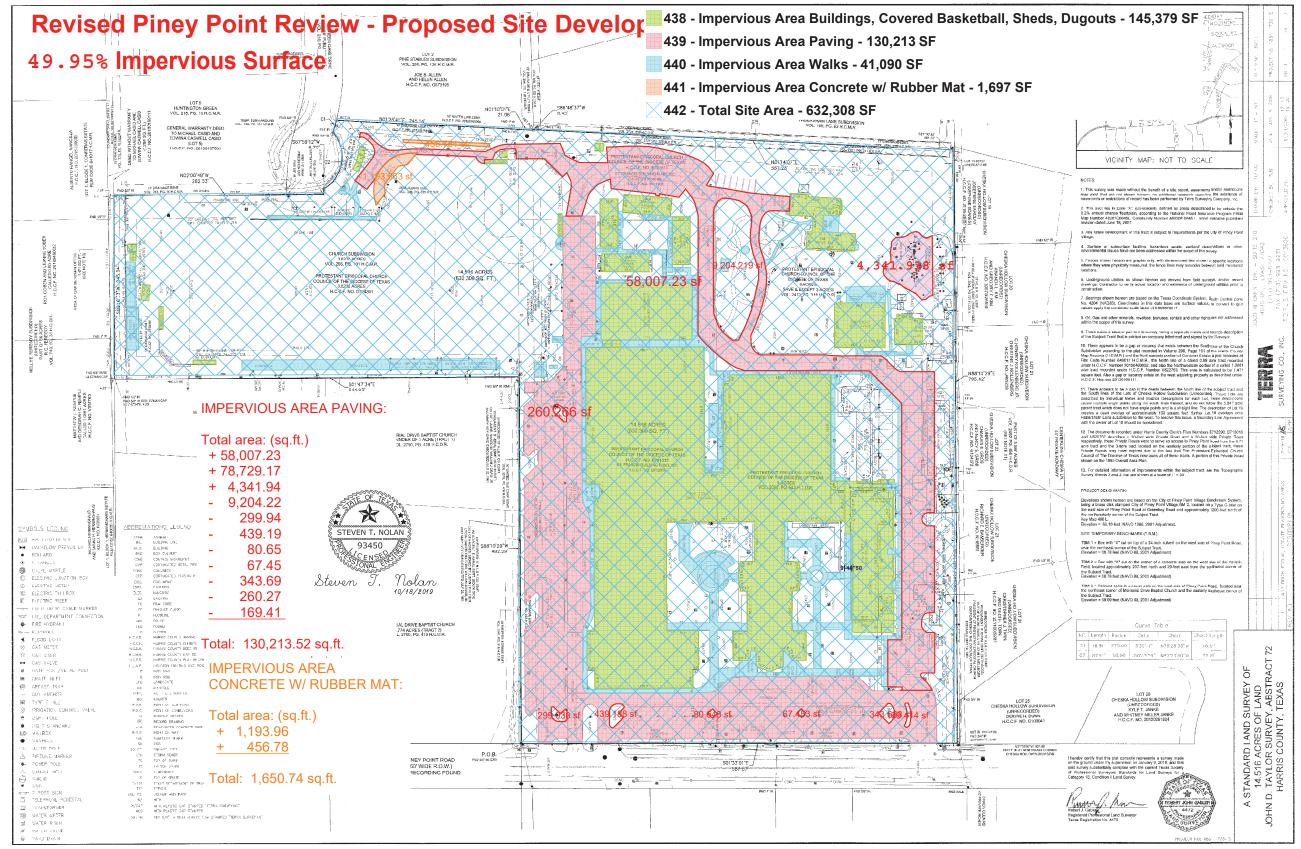
Steven T. Nolan, P.E.

Steven T. Nolan

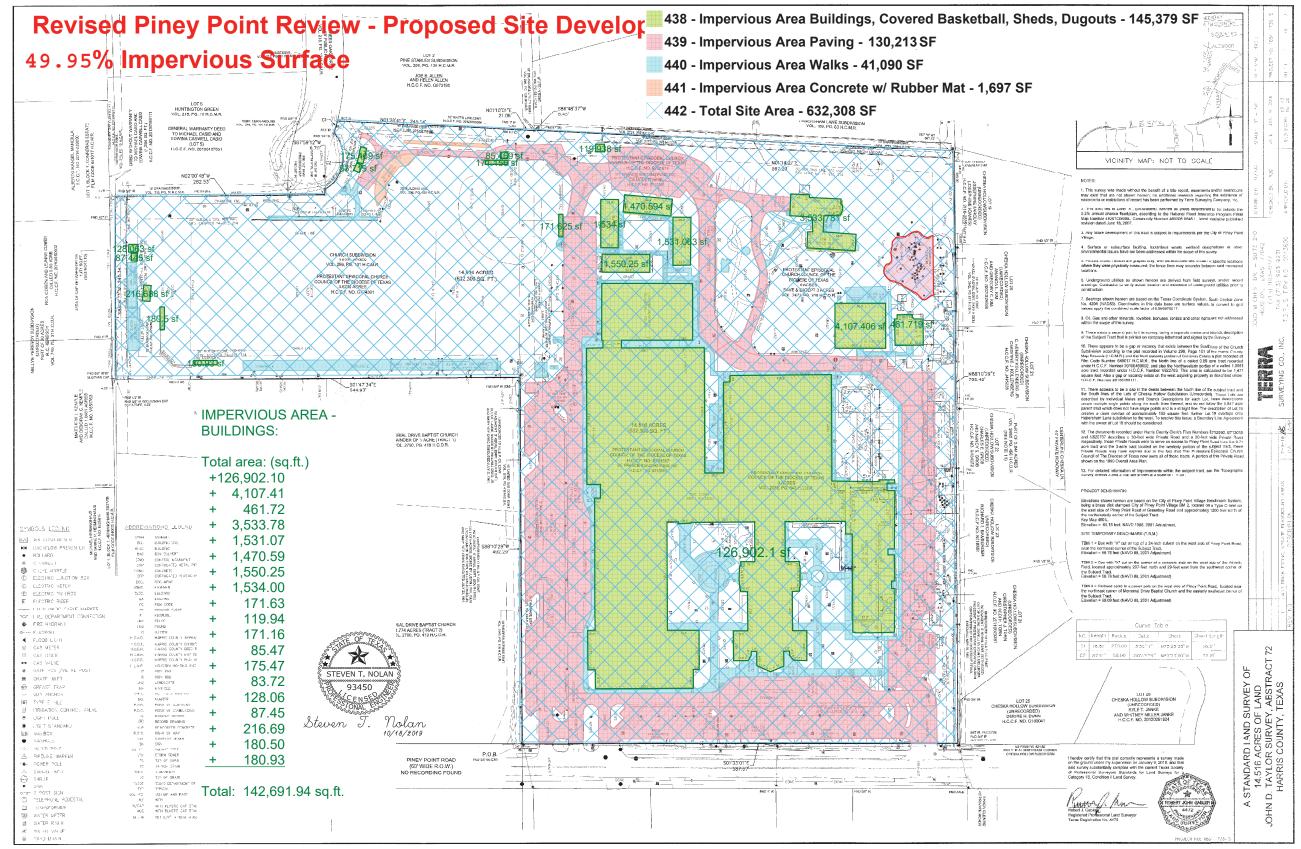
Lead Civil / Structural Engineer 3508 East Pasadena Fwy. Pasadena, Texas 77503 T 281.930.8877 C 713-578-0533 snolan@tellepsen.com



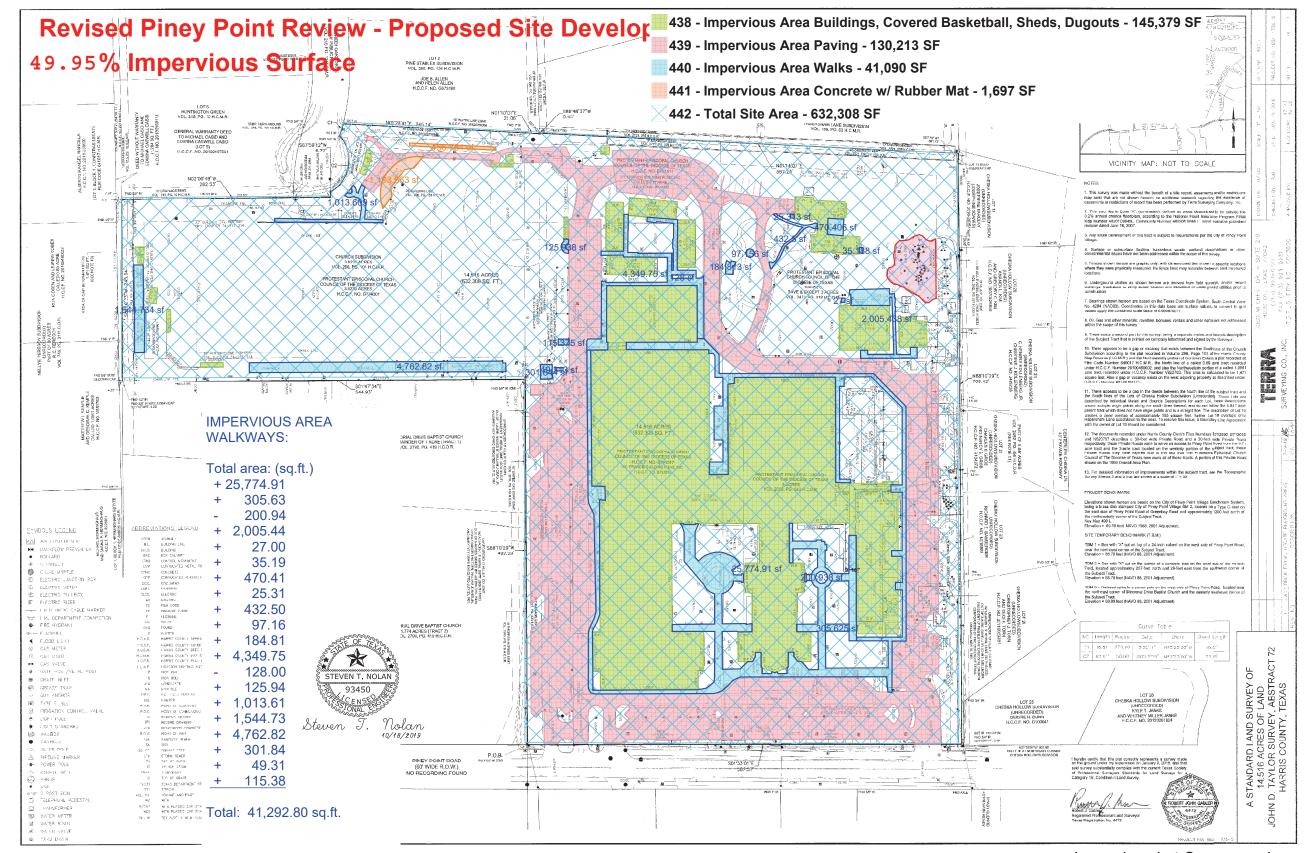
Impervious Lot Coverage - Existing



Impervious Lot Coverage - Impervious Paving Area



Impervious Lot Coverage - Impervious Building Area



Impervious Lot Coverage - Impervious Area Walks



	Impervious Surface Areas of 14.516 Acre Site (632,308 SF)	,
EXISTING SITE	FUNCTION/USE	PROPOSED SITE
150,301 SF	Buildings, Covered Basketball, Sheds, Dugouts	142,692 SF
137,217 SF	Impervious Area Paving (includes playground)	130,213 SF
45,895 SF	Impervious Area Walks	41,293 SF
1,697 SF	Concrete Areas with Rubber Mat	1,651 SF
335,110 SF	Total Site Area	315,849 SF
52.99%	Impervious Surface Percentage	49.95%

Existing Impervious Area to be removed



Impervious Surface Area CONSTRUCTION EXTENTS

AREA	REMOVED	<u>NEW</u>	DELTA
IMPERVIOUS STRUCTURE IMPERVIOUS DRIVE IMPERVIOUS WALK	17,683 sf 24,482 sf <u>9,997 sf</u> 52,162 sf	10,074 sf 20,692 sf 5,395 sf 36,161 sf	- 7,609 sf - 3,790 sf <u>- 4,602 sf</u> -16,001 sf

Proposed New Impervious Area shown in light grey Dark Grey is existing paving and building

Trees Disposition Per Piney Point Village Tree Disposition Ordinance 946



ST. FRANCIS EPISCOPAL CHURCH- CHURCH ADDITIONS 2019/2020

Piney Point Village Tree Disposition Plan for Ordinance 946

Surveyed Trees

173 trees were inventoried on and adjacent to the 14.516 acre (632,309 sq. ft.) site at 345 Piney Point Road. Tree numbers and required tree protection adjacent to proposed demolition and construction are included in the attached Tree Protection Plan.

Protective Measures:

Trees should be protected with 4' tall chain link fence, secured to post driven into ground no further than 8' apart. Recommended location for tree protection fencing is indicated on the attached site plan. The tree protection fence must be installed prior to any construction activity. Fences must have signs in English and Spanish that include "Off Limits" and "No Trash".

Access for construction shall be from the existing driveway/parking area on north side of construction area. Vehicles should not drive or park on tree root zone areas unless grade is protected from compaction and rutting and locations are approved by City of Piney Point forester prior to access. If additional room is needed for material storage, we recommend installing some temporary construction mats, or a layer of soil separator fabric with 8" of mulch on top of fabric, to protect the root system of adjacent trees. This treatment should be applied in areas approved by City of Piney Point forester.

All construction materials should be staged/stored inside construction fenced area and outside tree protection fence areas.

Any trenching for installation of drainage, irrigation, water service, gas service, electrical service, and any other excavation should be routed around the tree protection fence areas. In instances where trenching must occur within the tree protection fenced area, all excavation should be completed by hand, taking care not to cut or otherwise damage any tree roots 1" diameter or larger.

Tree Disposition 345 Piney Point Road Page 2 of 3

Roots that must be removed shall be cut clean at edge of excavation, and not ripped or torn from the soil.

Limit grading in tree protection areas to 2" cut or fill. If required, cut shall be completed by hand without damaging roots 1" diameter or larger, and fill shall be applied as clean bank sand.

Existing underground structures within the root zone of any tree to be preserved should remain in place, unless there is a direct conflict with proposed structure or utilities. In which case, the excavation should be completed by hand without cutting or damaging any tree roots 1" diameter or larger.

Do not allow spoils from excavation or construction to accumulate in any tree protection fence area. Maintain integrity of tree protection fencing through entire construction schedule. Failure to do so can result in ordinance violation and citations.

Tree Preservation and Removal Summary:

113 of the 173 inventoried trees on the site are Qualified Trees that can be protected through construction. Trees number 5, 54-56, 60, 85, 109-111, 125, 127, 128, 150, 157, & 167-171 are not Qualified Trees and do not count toward Minimum Density Requirements. Trees 146 & 151 are located in City Right of Way and will not count toward Minimum Density Requirements. Trees 3, 52, 53, 63, 64, 66, 68-70, 82, 84, 86, 88, 113, 155, 156, 158-166, 172 & 173 are in poor condition and do not count toward Minimum Density Requirements.

Trees number 6-11, 17, 18, 21, 52, 53, 58, 59 & 61 will need to be removed for proposed demolition and construction. Trees number 52, 53, 55, 63, 64, 66, 68-70, 82, 84, 86, 88, 110, 113, 172 & 173 should be removed due to poor condition and safety concerns.

<u>Tree Replacement Requirement: 1 Tree per 2,000 sq. ft. & 25% at least 20' from lot perimeter.</u>

Lot Size: 632,309 square feet

The calculated Minimum Density for this project is 317 trees, with at least 80 trees 20' from lot perimeter. Tree Disposition plan preserves 113 trees

Tree Disposition 345 Piney Point Road Page 3 of 3

within property lines of lot, and 77 trees 20' from lot perimeter (2, 4, 12-16, 19, 20, 22-39, 51, 57, 62, 65, 67, 71-81, 83, 87, 89-96, 99-103, 105, 106, 112, 114-124, 126, 130-132, & 135) which does not meet Minimum Density Requirements. At least 204 Qualified Trees must be planted on Site, with at least 3 of the 204 at least 20' from lot perimeter, to meet requirements.

Tree Treatments:

Large trees on site have not been properly pruned historically. A majority of the trees should be Crown Cleaning Pruned, to remove all dead and obstructional branches 1" diameter and larger, by an ISA Certified Arborist. Trees should be assessed for hazardous conditions by climber while completing the pruning. Given the high frequency of pedestrian targets present on-site with the school, all large trees should be regularly evaluated for structural integrity going forward.

Root stimulate and spray tree trunk for borer or bark beetle prevention on any tree that is impacted beyond what is included in Tree Protection Plan.

Trees should be pruned by ISA Certified Arborist using pruning methods in the ANSI A300, most current revisions.

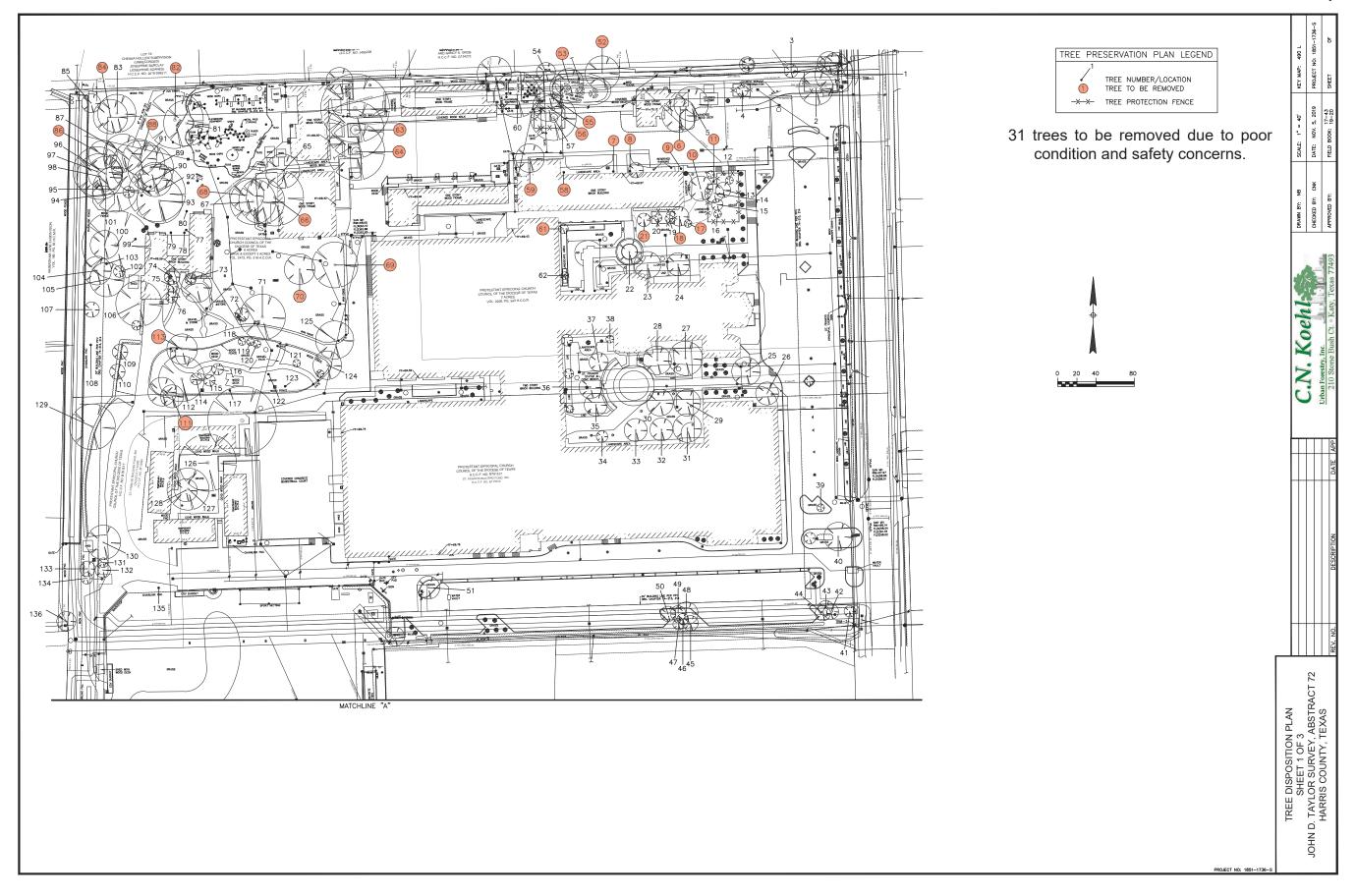
This Disposition report was prepared by C.N. Koehl Urban Forestry, Inc., with information provided by St. Francis Episcopal Church in October 2019. The Disposition report applies to the information provided. Should any changes to proposed construction be made, additional recommendations may apply.

Prepared by C. N. Koehl Urban Forestry, Inc.

Craig N. Koehl

Urban Forestry Consultant

Craiz N. Koohf





Tree Description	Comments	Tree Disposition Treatment	No Tree Description	Comments	Tree Disposition Treatment	
1 20" Post Oak 2 18" Eastern Red Cedar	Utility pruned, Fair condition Suppressed, Fair condition	Crown Cleaning prune, Fence Crown Cleaning prune, Fence	88 17" Pine 89 19" Pine	Trunk decay, Hazardous, Remove for safety concerns Fair condition	Remove tree Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
3 8" Live Oak	Topped by utility, Poor condition, Does not count toward minimum density	Crown cleaning prune, Pence	90 19" Pine	Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
4 6" Magnolia	Good condition	Fence	91 24" Pine	Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
		Monitor for structural integrity, Crown Cleaning Prune,	92 25" Pine	Old lightening strike, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
5 20" Bradford Pear	Fair condition, Species does not count toward minumum density	Include hazard assessment in Crown Cleaning Prune	93 23" Cherrybark (Suppressed, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
6 18" Bradford Pear	Poor condition, Remove for demolition	Remove tree	94 5" Water Oak	Good condition		ļ.
7 5" Eagleston Holly	Remove for demolition, Good condition	Remove tree	95 23" Pine	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
8 5" Eagleston Holly	Remove for demolition, Good condition	Remove tree	96 18" Pine	Leaning trunk, Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
9 4" Eagleston Holly	Remove for demolition, Good condition	Remove tree	97 23" Pine	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
10 16" Magnolia	Remove for demolition, Good condition	Remove tree	98 20" Pine	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
11 10" Pine 12 4" Magnolia	Chloroitic, Thin, Poor condition, Remove for demolition V-crotch, Fair condition	Remove tree Fence	99 3" Sweet Virburr 100 30" Pine	Good condition Good condition	Manitar for all actural integrity. Crown Classing Davis, Ingly de harverd account of Crown Classing Davis	
13 11" Pine	Good condition	Crown Cleaning prune, Fence	101 20" Post Oak	Leaning trunk, Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
14 12" Pine	Good condition	Crown Cleaning prune, Fence	102 7" Pine	Good condition	monitor for structural integrity, Grown Cleaning Prune, include nazard assessment in Clown Cleaning Prune	
15 9" Pine	Good condition	Fence	102 / Pine	Good condition		ľ
16 8" Pine	Good condition	Fence	104 13" Cherrybark (Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
17 6" Pine	Remove for demolition, Good condition	Remove tree	105 18" Water Oak	Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
18 12" Pine	Bark beetles, Poor condition, Remove for demolition	Remove tree	106 23" Pine	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
19 6" Shumard Oak	Good condition	Fence	107 9" Pine	Good condition	Monitor for structural integrity, Grown Gleaning Fitcher, include hazard assessment in Grown Gleaning Fitcher	
20 4" Redbud	Fair condition	Fence	108 5" Pine	Good condition		
21 11" Red Maple	Poor condition, Remove for demolition	Remove tree	109 8" Tallow	Fair condition, Species does not count toward minumum density		
· ·	,	Monitor for structural integrity, Crown Cleaning Prune,	110 7" Tallow	Fair condition, Species does not count toward minumum density		
22 17" Drummond Red Maple	Minor cavity, Fair condition	Include hazard assessment in Crown Cleaning Prune	111 12" Sugarberry	Trunk decay, Hazardous, Remove for safety concerns	Remove tree	The state of the s
23 13" Live Oak	Good condition	9.1	112 23" Pine	Vines, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
24 13" Live Oak	Good condition		113 20" Pine	Dead top, Decay, Hazardous, Remove for safety	Remove tree	
25 16" Live Oak	Good condition		114 6" Sweetbay	Good condition		
26 14" Live Oak	Good condition		115 6" Sweetbay	Good condition		
27 17" Live Oak	Good condition		116 5" Sweetbay	Good condition		
28 14" Live Oak	Good condition		117 4" Smoketree	Good condition		
	Good condition		118 5" Mexican Plun	Fair condition		
	Good condition		119 5" Mexican Plun	Fair condition		
31 15" Live Oak	Good condition		120 3" Mexican Plun	Fair condition		
32 13" Live Oak	Good condition		121 3" Green Ash	Fair condition		
33 13" Live Oak	Leaning trunk, Good condition		122 7" Smoketree	Good condition		
34 6" Live Oak	Good condition		123 4" Green Ash	2-stem, Fair condition		
35 11" Live Oak	Good condition		124 16" Eastern Red		Crown Cleaning prune, Remove vines, Include hazard assessment in Crown Cleaning prune	
36 14" Live Oak	Good condition		125 25" Tallow	Fair condition, Species does not count toward minumum density	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
	Good condition		126 28" Baldcypress	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
38 5" Redbud	Good condition		127 21" Black Willov	Fair condition, Species does not count toward minumum density	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
39 5" Nuttal Oak	Chlorotic, Fair condition	Orange Observiors	128 14" Black Willov	Fair condition, Species does not count toward minumum density	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
40 18" Nuttal Oak	Chlorotic, Fair to Good condition	Crown Cleaning prune	129 23" Pine	Twig dieback, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
41 5" Redbud	Minor cavity, Fair condition		130 21" Live Oak	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
42 10" Pine	Good condition		131 5" Pine	Suppressed, Fair condition		
43 7" Pine 44 9" Pine	Good condition Good condition		132 9" Pine	Good condition		
44 9" Pine 45 10" Pine	Good condition		133 9" Pine 134 7" Pine	Good condition		
45 10" Pine 46 9" Live Oak	Crowded by Pines, Fair condition		134 /" Pine 135 29" Pine	Good condition	Manitor for etrustural integrity. Crown Classing Prups, leakeds beyond accessment in Crown Classics Pruss	
47 8" Pine	Crowded by Pines, Fair condition Crowded, Fair condition		135 29" Pine 136 10" Live Oak	Thin canopy, Fair condition Shared tree, Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	ŀ
48 11" Pine	Good condition		136 10" Live Oak 137 4" Savannah Hol	Snared tree, Good condition Good condition		
48 11" Pine 49 8" Pine	Good condition Crowded, Fair condition			000000000000000000000000000000000000000		ŀ
49 8" Pine 50 9" Pine	Crowded, Fair condition		138 5" Savannah Hol 139 4" Savannah Hol	Good condition		
51 13" Nuttal Oak	Restricted grow-space, Fair condition	Crown Cleaning prune	139 4" Savannah Hol 140 6" Savannah Hol	Good condition Good condition		
52 16" Laurel Oak	Topped by utility, Decay, Hazardous, Remove for safety concerns	Remove tree	140 6" Savannan Hol	Good condition Good condition		ŀ
53 15" Laurel Oak	Trunk decay, Hazardous, Remove for safety concerns	Remove tree	142 6" Savannah Hol	Good condition		
54 12" Tallow	Adjacent property, Decay, Poor condition		143 22" Live Oak	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
55 15" Tallow	Decay, Hazardous, Remove for safety concerns	Remove tree	144 22" Live Oak	Suppressed, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
56 16" Tallow	Fair condition, Species does not count toward minumum density		145 31" Live Oak	Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
		Monitor for structural integrity, Crown Cleaning Prune,	146 22" Pine	City Street Right of Way, Does not count toward minumum density	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
57 20" Laurel Oak	Small deadwood, Fair condition	Include hazard assessment in Crown Cleaning Prune	147 16" Pine	Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
58 4" Eagleston Holly	Good condition, Remove for demolition	Remove tree	148 12" Pine	Thin canopy, Fair condition		
59 16" Green Ash	Good condition, Remove for demolition	Remove tree	149 19" Live Oak	Thin canopy, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
		Monitor for structural integrity, Crown Cleaning Prune,	150 21" Chinaberry	Fair condition, Species does not count toward minumum density	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
60 22" Tallow	Fair condition, Species does not count toward minumum density	Include hazard assessment in Crown Cleaning Prune	151 12" Pine	City Street Right of Way, Does not count toward minumum density	and the second s	
	Good condition, Remove for demolition	Remove tree	152 24" Pine	1-sided canopy, Shared with City, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
62 4" Little Gem Magnolia	Good condition	Fence	153 22" Pine	Shared tree, Good condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
63 26" Water Oak	Decay, Hazardous, Remove for safety concerns	Remove tree	154 24" Pine	Shared tree, Thin canopy, Fair condition	Monitor for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune	
64 26" Water Oak	Decay, Hazardous, Remove for safety concerns	Remove tree	155 4" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		
	·	Monitor for structural integrity, Crown Cleaning Prune,	156 4" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		
65 21" Green Ash	Good condition	Include hazard assessment in Crown Cleaning Prune	157 13" Tallow	Fair condition, Species does not count toward minumum density		
66 26" Pine	Lightening strike, Dead, Hazardous, Remove for safety concerns	Remove tree	158 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der	nsity	ļ
		Monitor for structural integrity, Crown Cleaning Prune,	159 6" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der	nsity	
67 27" Pine	Thin canopy, Fair condition	Include hazard assessment in Crown Cleaning Prune	160 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		
68 20" Pine	Heart rot, Hazardous, Remove for safety concerns	Remove tree	161 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		
69 25" Green Ash	Decay, Hazardous, Remove for safety concerns	Remove tree	162 4" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		
70 16" Water Oak	Broken top with decay, Hazardous, Remove for safety concerns	Remove tree	163 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		l
		Monitor for structural integrity, Crown Cleaning Prune,	164 4" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		l
71 27" Pine	Small deadwood, Fair condition	Include hazard assessment in Crown Cleaning Prune	165 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der		l
72 9" Live Oak	Good condition		166 5" Savannah Hol	70% dieback, Vines, Poor condition, Does not count toward minimum der	nsity	l
73 4" American Elm	Fair condition		167 13" Sugarberry	Fair condition, Species does not count toward minumum density		l
74 8" Savannah Holly	Thin canopy, Fair condition		168 7" Sugarberry	Fair condition, Species does not count toward minumum density		3
75 8" Savannah Holly	Thin canopy, Fair condition		169 7" Sugarberry	Fair condition, Species does not count toward minumum density		≤
76 8" Savannah Holly	Thin canopy, Fair condition		170 11" Sugarberry	Fair condition, Species does not count toward minumum density		<u> </u>
7 5" Water Oak	Fair condition		171 13" Tallow	Fair condition, Species does not count toward minumum density		z
78 3" American Elm	Fair condition		172 28" Water Oak	Decay, Hazardous, Remove for safety concerns	Remove tree	ΙQ
79 4" American Elm	Fair condition		173 13" Water Oak	Decay, Hazardous, Remove for safety concerns	Remove tree	ΙE
	Fair condition	Mankantanakan	174 14" Water Oak	Decay, Hazardous, Remove for safety concerns	Remove tree	<u>~</u>
	To all constants Fair condition	Monitor for structural integrity, Crown Cleaning Prune,				Ιδ
80 5" American Elm	Trunk wounds, Fair condition	Include hazard assessment in Crown Cleaning Prune				I K
80 5" American Elm 81 25" Pine		Remove tree				Ι×
80 5" American Elm	Large trunk cavity, Hazardous, Remove for safety concerns		I .			J
80 5" American Elm 81 25" Pine	Large trunk cavity, Hazardous, Remove for safety concerns	Monitor trunk for structural integrity, Crown Cleaning				1 #
80 5" American Elm 81 25" Pine 82 24" Water Oak		Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning				
80 5" American Elm 81 25" Pine 82 24" Water Oak 83 20" Pine	Trunk scars, Fair condition	Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune				2
80 5" American Elm 81 25" Pine 82 24" Water Oak 83 20" Pine 84 18" Pine	Trunk scars, Fair condition Heart rot, Hazardous, Remove for safety concerns	Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning				12
10 5" American Elm 11 25" Pine 12 24" Water Oak 13 20" Pine 14 18" Pine 15 11" Sugarberry	Trunk scars, Fair condition Heart rot, Hazardous, Remove for safety concerns Fair condition, Species does not count toward minumum density	Monitor trunk for structural integrity, Crown Cleaning Prune, include hazard assessment in Crown Cleaning Prune Remove tree				TREE DISPOSITION PLAN
0 5" American Elm 1 25" Pine 2 24" Water Oak 3 20" Pine 4 18" Pine	Trunk scars, Fair condition Heart rot, Hazardous, Remove for safety concerns	Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Remove tree				
5" American Elm 25" Pine 24" Water Oak 20" Pine 18" Pine 11" Sugarberry	Trunk scars, Fair condition Heart rot, Hazardous, Remove for safety concerns Fair condition, Species does not count toward minumum density	Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Remove tree Remove tree Monitor trunk for structural integrity, Crown Cleaning				
5" American Elm 25" Pine 24" Water Oak 20" Pine 118" Pine 111" Sugarberry	Trunk scars, Fair condition Heart rot, Hazardous, Remove for safety concerns Fair condition, Species does not count toward minumum density	Monitor trunk for structural integrity, Crown Cleaning Prune, Include hazard assessment in Crown Cleaning Prune Remove tree				

- 173 trees surveyed / inventoried on the 15.516-acre site.
- 113 of the 173 inventoried trees on site are Qualified trees.
- 14 trees need to be removed for proposed construction.
- 17 trees should be removed due to poor condition and safety concerns.
- Ordinance 946: requires one (1) tree per 2,000SF of lot size.
- Requirement: 204 Qualified Trees (caliper of at least 3", measured 6" above grade) will be planted on site.
 - * 115 LOBLOLLY PINES (65 GAL)(3.0" - 4.0" CALIPER)
 - 30 LITTLE GEM MAGNOLIA (65 GAL)(3.0" CALIPER)
 - 20 RED MAPLE (65 GAL)(3.0" CALIPER)
 - © 20 EAGLESTON HOLLY (SINGLE TRUNK) (65 GAL)(2.5" 3.0" CALIPER)
 - BALD CYPRESS (45 GAL)(3.0" CALIPER)
 - CEDAR ELM (65 GAL)(3.0" CALIPER)
 - 2 SHUMARD RED OAK (45 GAL)(2.5" - 3.0" CALIPER)
 - 2 MEXICAN SYCAMORE (65 GAL)(2.75" - 3.0" CALIPER)

204 ADDITIONAL NEW TREES

NOTE: ALL TREES TO BE MINIMUM 3" CALIPER. RE: 2/G120 FOR ADDITIONAL INFO.

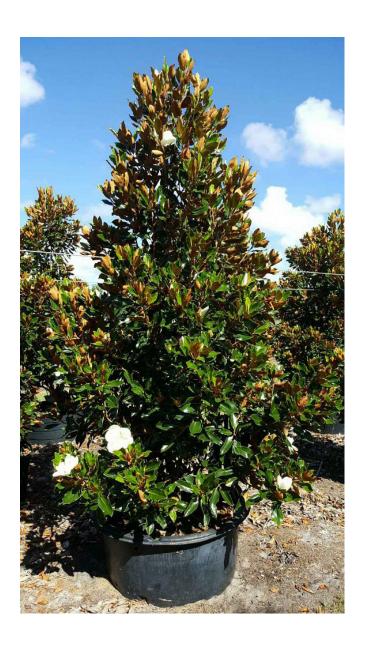
NEW QUALIFIED TREE COUNT

See photos and data on exhibit for specific type, count, and location

AREA / LOCATION NUMBER

NORTH GREEN BELT = 45 NEW TREES
WEST 1/3 OF PROPERTY = 133 NEW TREES
AROUND NEW ADDITION = 21 NEW TREES
EAST END OF PROPERTY = 5 NEW TREES







Little Gem Magnolia

Size: 65 Gallon (3.0" caliper)

Count: 30

Location: Along North Property Line;

Acts as Natural Screen



Loblolly Pine

Size: 65 Gallon (3.0" - 4.0" caliper)

Count: 115

Location: Dispersed throughout the west

half of campus





Size: 45 Gallon (3.0" caliper)

Count: 12

Location: Dispersed throughout the

west half of campus



Cedar Elm

Size: 65 Gallon (3.0" caliper)

Count: 3

Location: West side of Campus



Mexican SycamoreSize: 65 Gallon (3.0" caliper)

Count:

Location: West side of Campus



Eagleston HollySize: 65 Gallon (3.0" caliper)

12 Count:

Location: Dispersed throughout the

west half of campus



Red Maple

65 Gallon (3.0" caliper) 20 Size:

Count:

Dispersed throughout campus Location:



Shumard Red Oak

Size: 45 Gallon (3.0" caliper)

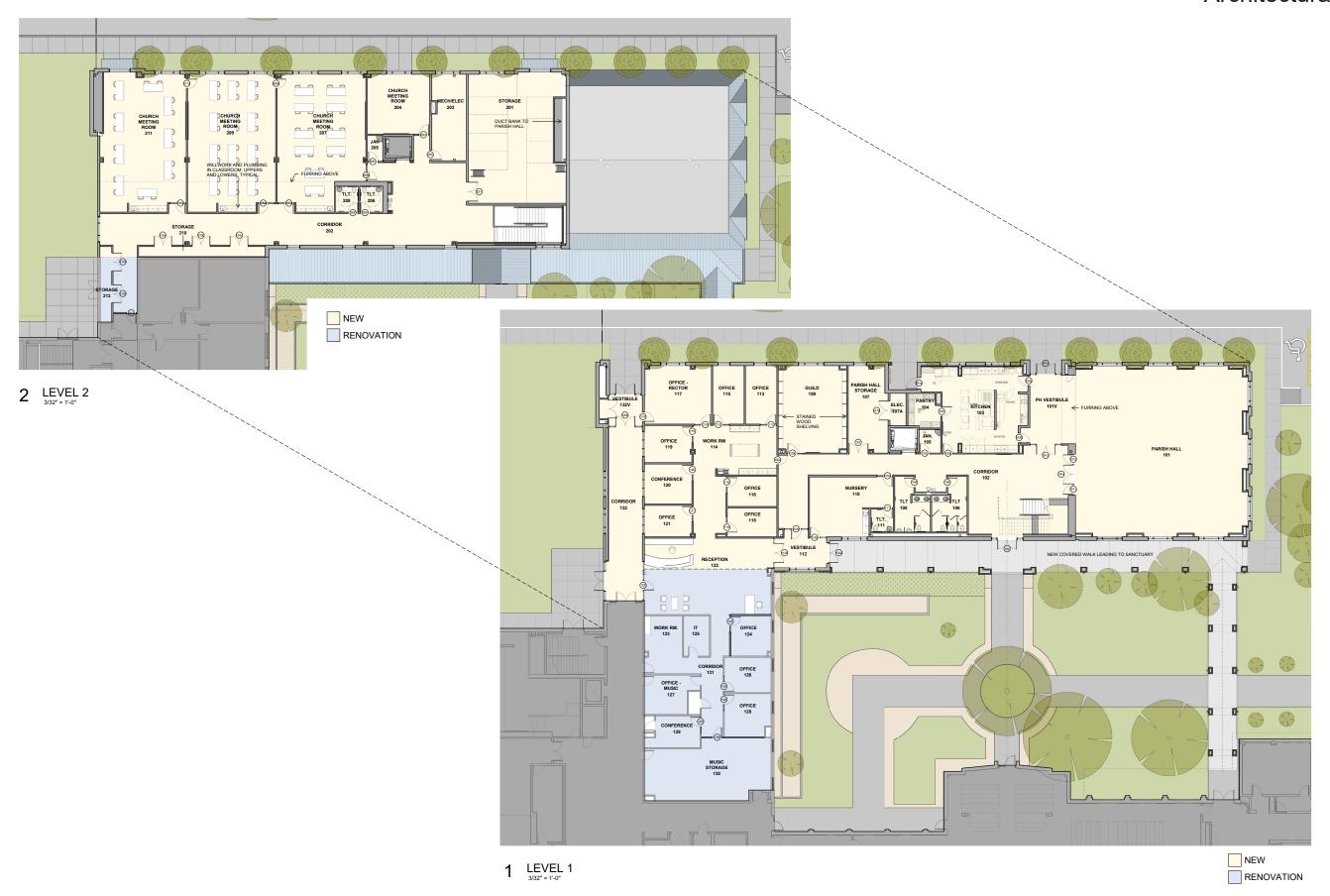
Count: 2

Location: East side of property near north

drive entry

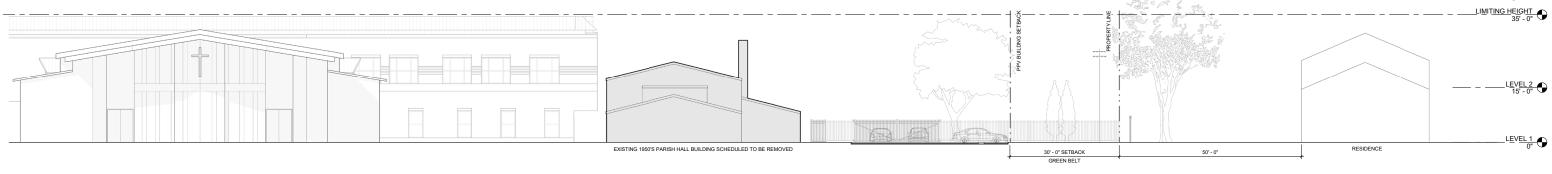
Architectural Plans

Architectural Plans

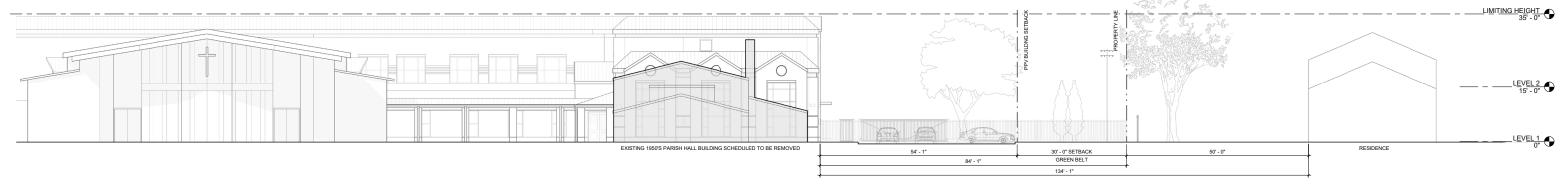


Elevation Overlays

Elevation Overlay



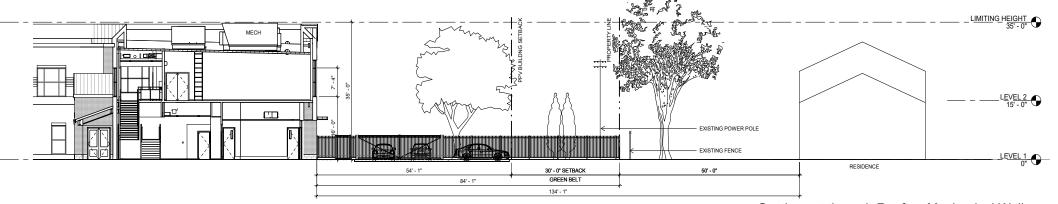
Existing East Elevation (From Piney Point)



Existing East Elevation (From Piney Point) with Proposed New Addition Overlay

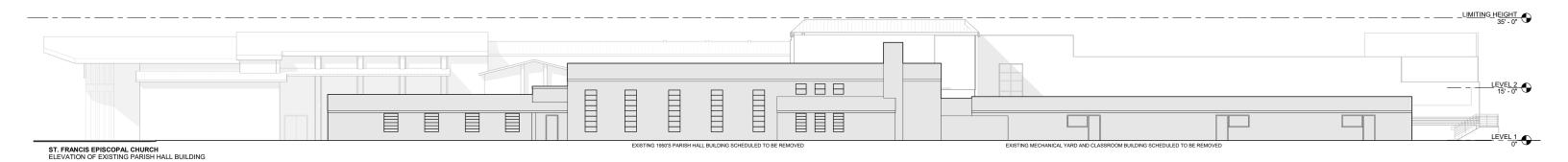


Proposed East Elevation (From Piney Point)

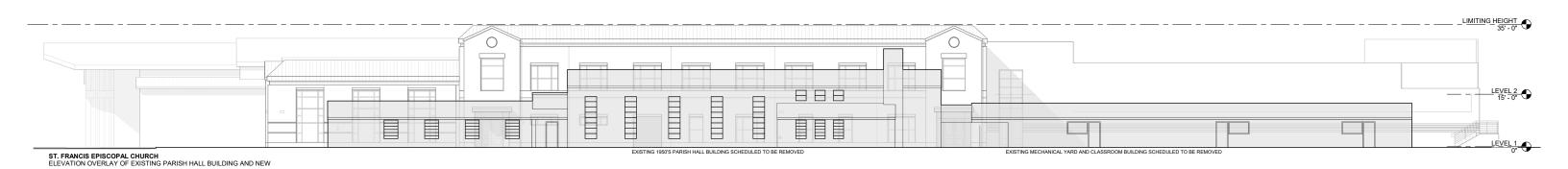


Section cut through Rooftop Mechanical Well

Elevation Overlay



Existing North Elevation



Existing North Elevation with Proposed New Addition Overlay



Proposed North Elevation

Perspective Overlay



Control Photo for Model Overlay - From Piney Point Rd.



Model Overlay of existing campus with photo - From Piney Point Rd.

Model Overlay of Proposed addition with photo - From Piney Point Rd.

HVAC Acoustical Report

Acoustical Readings

cgallatin@mhparch.com

713-522-2885

global **environmental** and **advisory** solutions



May 12, 2020

Colin Gallatin To:

Merriman Holt Powell Architects

3900 Essex Lane Suite 200

Houston, Texas 77027

From: Ashton Taylor

SLR International Corporation

Houston - Acoustics

Re: **Property Line Sound Level Measurements**

> Piney Point Village, Texas SLR Project: 119.01117.00014

St. Francis Episcopal Church

TECHNICAL MEMORANDUM

This Technical Memorandum presents sound levels measured at or near the north property line of St. Francis Episcopal Church, 345 Piney Point Road, Piney Point Village, Texas. The sound levels were collected by Ashton Taylor between 12:45 P.M. and 1:45 P.M. on Tuesday, May 5, 2020. The weather during the sound level measurements was as follows:

> 90° F Temperature: Relative Humidity: 51% Wind: mostly calm Sky: partly cloudy Precipitation: none Barometric Pressure: 29.9 in.

The adjacent properties north of St. Francis are single-family residences. The purpose of the sound level measurements is to establish a baseline of existing sound levels prior to the construction of the new Parish Hall. The goal is to ensure that the sound levels at the north property line are no more than existing sound levels.

The new Parish Hall will generally replace the existing Parish Hall at approximately the same location. Attached to this document is a site plan showing existing buildings, condenser units, property line, etc. All the condensing units shown in the drawing will be removed when the buildings are demolished prior to construction of the new Parish Hall; the two roof-mounted chillers serving the school will remain. HVAC mechanical equipment for the new Parish Hall will be mounted in a roof well of the new building. The mansard roof surrounding the roof-mounted equipment will serve as a sound barrier.

For this document, I am referring to two unlabeled buildings as the 'Long' building and the 'West' building (see site drawing). For the sound measurements, most of the condenser units were in operation. The Youth House condenser unit cycled on and off during the measurement period and two sound level measurements were taken at the same location with this unit running and off. The May 12, 2020 Colin Gallatin Merriman Holt Powell Architects Property Line Sound Level Measurements St. Francis Episcopal Church Page 2



west unit of the Long building was not in operation during the measurements. All other condensing units were in operation.

Sound levels measured at the property line ranged from 49 dBA to 66 dBA. See the site plan for the sound level measurement positions. The following are the sound levels measured along the **north property line** adjacent to residential receivers (CU = condensing unit):

<u>Position</u>	Description Along North Property Line	Level
M_1	Due north of Parish Hall CU, Youth CU on	54 dBA
M_2	Due north of Parish Hall CU, Youth CU off	49 dBA
M_3	Due north of large CU in fenced area	53 dBA
M_4	Due north of east CU of long building (6 ft from property line)	66 dBA
M_5	Due north of west CU of long building (CU off)	55 dBA
M_6	Northwest of three north Music Building CUs	54 dBA
M_7	Northwest of three north Music Bldg CUs (West Bldg CU on)	55 dBA
M_8	20 ft east of West Building CU	58 dBA

Detailed 1/3-octave band sound level graphs of each measurement position are also attached. The heavier light blue curve on each graph is the average sound level over the measurement time period (typically 10 to 15 seconds). The other curves show statistical sound levels. This is useful if birds or dogs make noise during the measurements; it is possible to see these effects and remove them. Most of the sound level readings were clean, requiring no adjustment due to extraneous noise.

The next step is to calculate property-line sound levels based on the sound level data of the equipment, distance from residential receivers, and the barrier effect of the mansard roof. Once these calculations are complete, another technical memorandum will be submitted with the results.

This completes our Technical Memorandum regarding existing baseline HVAC noise at the north property line of St. Francis Episcopal Church. Please contact us if you have any questions.

Sincerely,

SLR INTERNATIONAL CORPORATION

Ashton Taylor

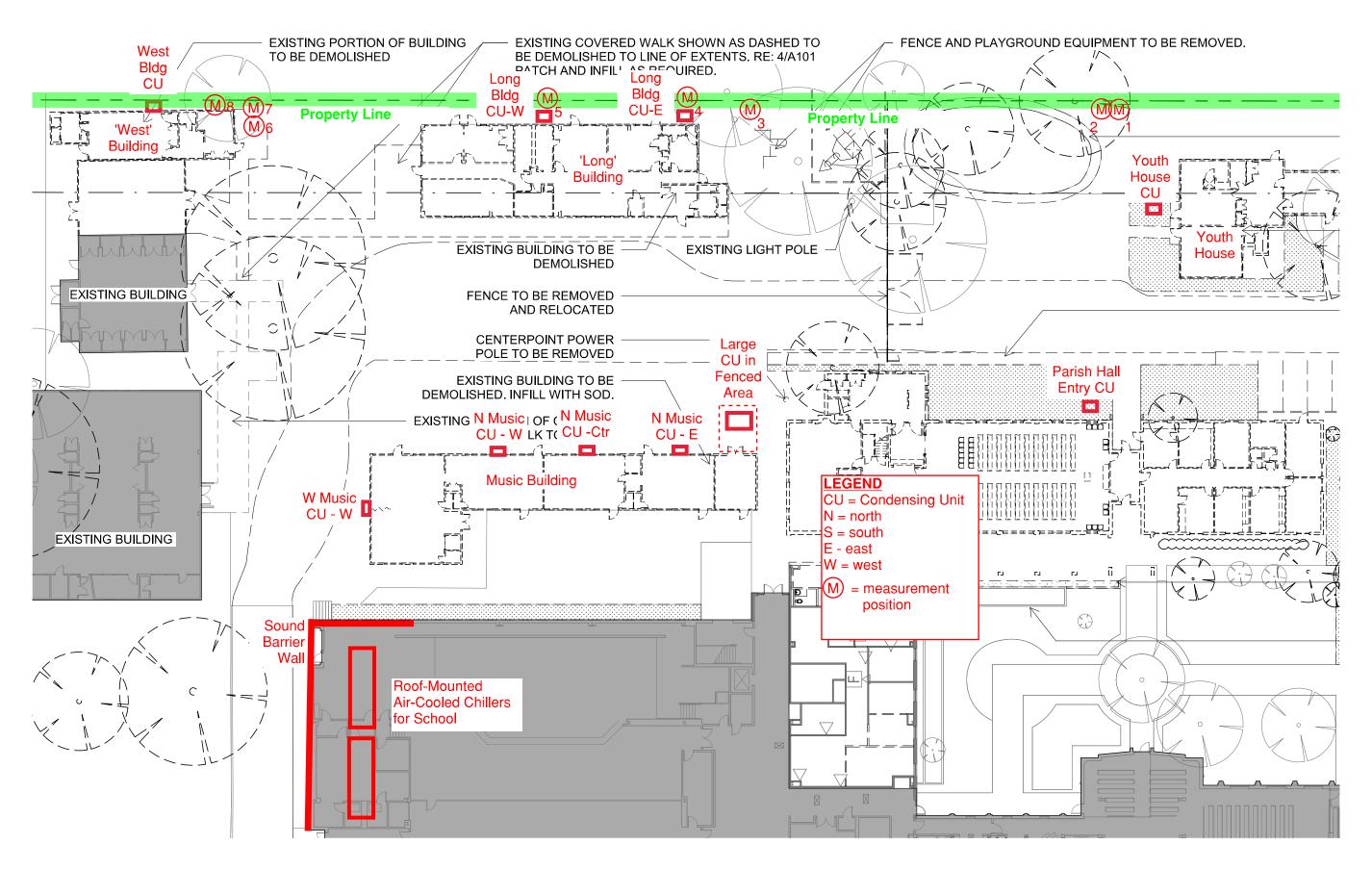
Senior Acoustical Consultant

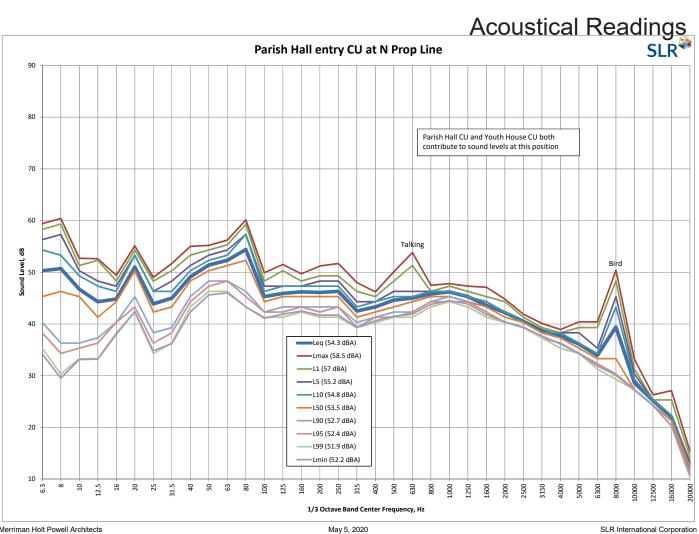
SFEC - PL SPL Meas - 2020-05-11.docx

Attachments:

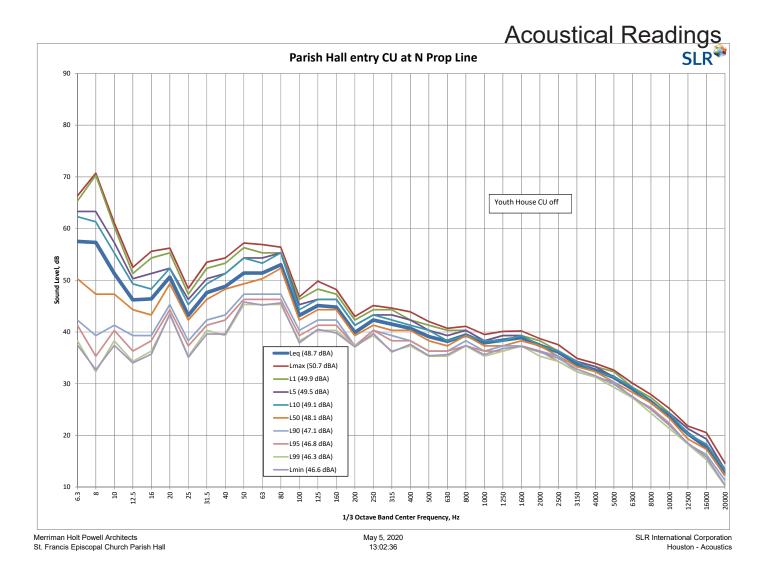
Partial Site Plan – Measurement Positions, Condenser Units, and Sound Levels Eight 1/3-octave band sound level graphs

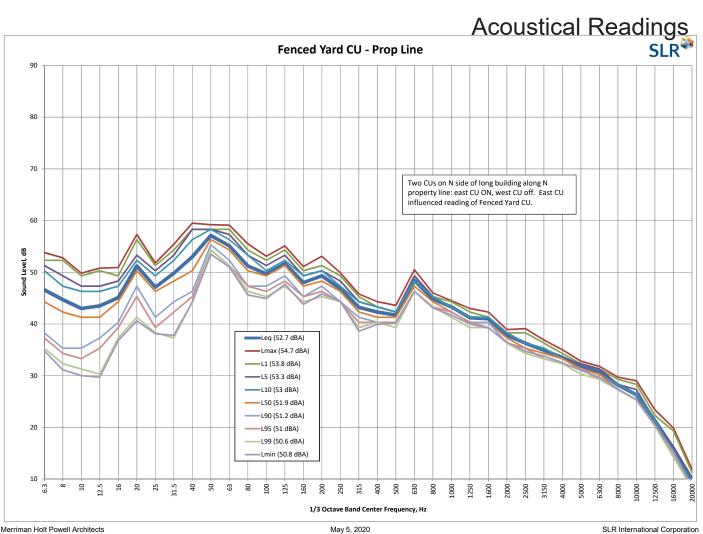
Acoustical Readings



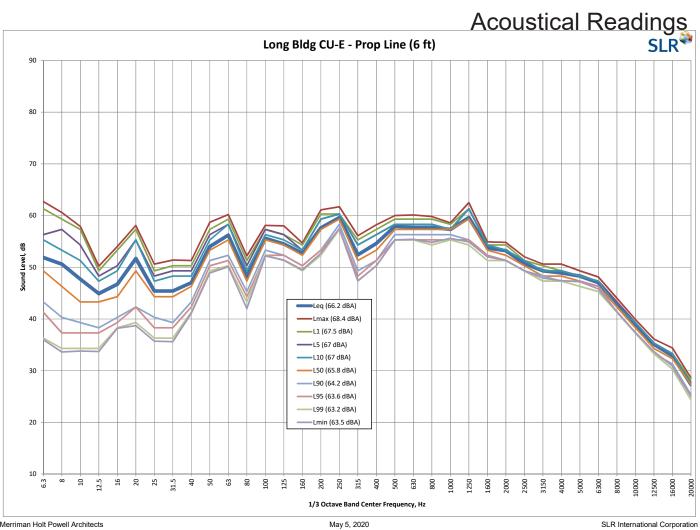


May 5, 2020 13:00:02

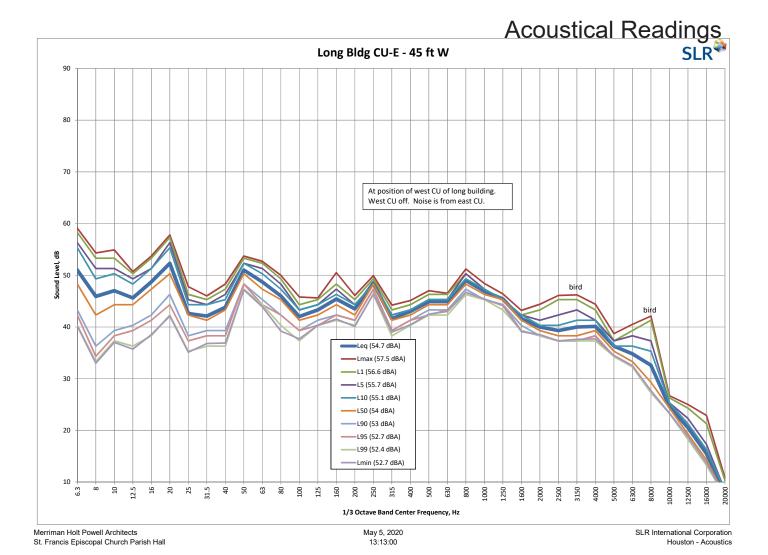


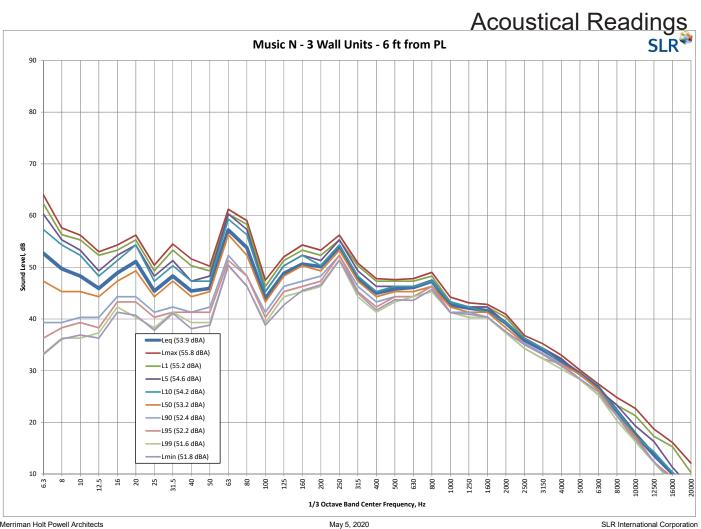


May 5, 2020 13:10:54

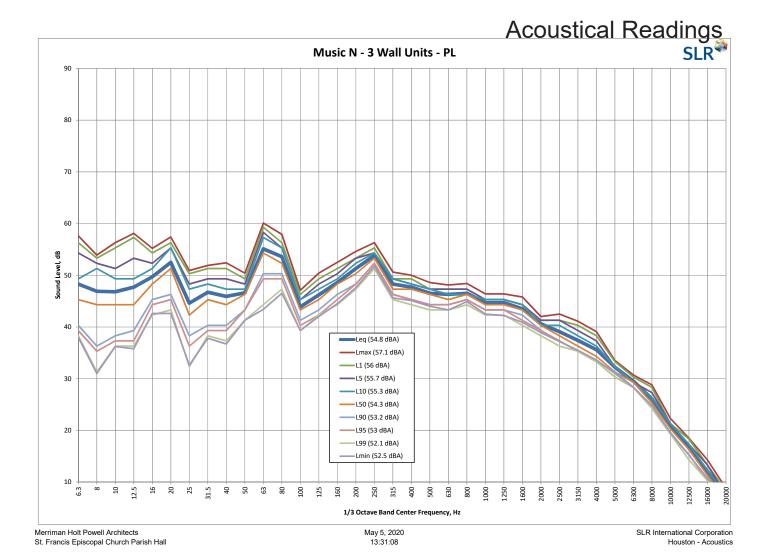


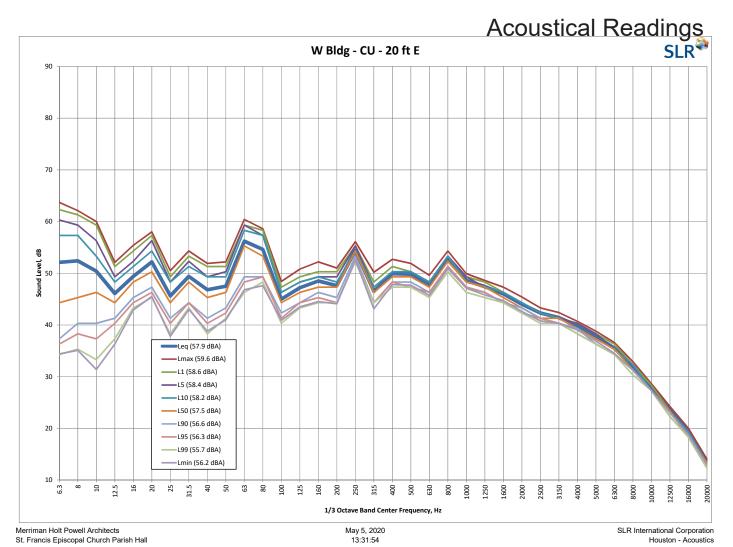
May 5, 2020





May 5, 2020 13:30:10





Acoustical Readings

NEW PROPOSED ROOFTOP UNITS -IN PROPOSED MECHANICAL ROOFTOP WELL

SI R

ROOFTOP HVAC EQUIPMENT NOISE CALCULATIONS

Client: Merriman Holt Powell Architects
Project: St. Francis Episcopal Church Parish Hall

Project Number: 119.01117.00014 By: Ashton Taylor Date: May 14, 2020

NOTES

Piney Point Village does not specify an allowable sound level in their noise ordinance.

Reference: City of Houston daytime (8:00 A.M. to 10:00 P.M.) allowable sound level: 65 dBA

Reference: City of Houston nighttime (10:00 P.M. to 8:00 A.M.) allowable sound level: 58 dBA

Reference: Existing	average sound	level at the	SFEC north property	y line: 55 dBA

RECEIVER 1 Property Line
SOURCE 1: DOAS-1 (radiated) rooftop unit
SOURCE 2: DOAS-2 (radiated) rooftop unit
SOURCE 3: RTU-PH (radiated) rooftop unit
SOURCE 4: CU-1 condenser unit
SOURCE 5: CU-2 condenser unit
SOURCE 6: KEF-PH exhaust fan
SOURCE 7: MAU-PH fan
SLIM VIT SOLIDCES

Sound L	evel Con	tributions	s at Rece	iver 1						
31.5	63	125	250	500	1000	2000	4000	8000	A-Wt	Z-Wt
35.4	37.5	36.2	30.4	25.2	20.6	12.8	3.0	-7.0	27.6	41.7
36.8	39.0	37.8	32.1	26.9	22.3	14.6	4.7	-5.2	29.2	43.2
33.1	35.7	28.8	29.6	27.8	24.5	19.0	17.2	6.3	29.5	39.3
34.1	36.2	37.9	36.1	30.9	28.3	22.5	15.7	9.7	33.6	42.8
34.0	36.2	37.9	36.1	30.9	28.3	22.5	15.7	9.7	33.6	42.8
34.2	37.0	42.5	43.8	40.6	32.9	26.8	21.3	15.5	40.8	48.0
40.6	42.8	42.6	35.8	26.6	21.1	16.3	12.5	5.5	31.6	47.3
44.7	47.0	47.7	46.0	42.0	36.0	30.0	24.6	18.2	43.1	53.0

RECEIVER 2 First Floor of House
SOURCE 1: DOAS-1 (radiated) rooftop unit
SOURCE 2: DOAS-2 (radiated) rooftop unit
SOURCE 3: RTU-PH (radiated) rooftop unit
SOURCE 4: CU-1 condenser unit
SOURCE 5: CU-2 condenser unit
SOURCE 6: KEF-PH exhaust fan
SOURCE 7: MAU-PH fan
SUM ALL SOURCES:

Sound	Sound Level Contributions at Receiver 2										
31.5	63	125	250	500	1000	2000	4000	8000	<u>A</u> -	Wt	Z-Wt
31.0	33.5	32.5	27.1	22.1	17.8	10.2	0.4	-9.5	24	1.4	37.8
33.3	36.0	35.4	30.4	25.9	21.9	14.5	4.9	-4.9	28	3.0	40.5
29.2	32.1	25.8	27.3	26.5	24.2	19.4	18.2	7.6	28	3.9	36.3
30.6	33.2	35.4	34.2	29.6	27.4	21.9	15.2	9.3	32	2.3	40.4
30.6	33.2	35.5	34.3	29.7	27.6	22.1	15.3	9.5	32	2.4	40.5
29.6	32.5	38.2	39.9	37.2	30.1	24.5	19.4	13.9	3	7.4	44.1
36.7	39.2	39.5	33.3	24.5	19.4	14.8	11.1	4.2	29	9.1	43.9
40.8	43.5	44.5	42.9	39.2	34.3	28.8	23.8	17.3	40).6	49.7

RECEIVER 3 Second Floor of House
SOURCE 1: DOAS-1 (radiated) rooftop unit
SOURCE 2: DOAS-2 (radiated) rooftop unit
SOURCE 3: RTU-PH (radiated) rooftop unit
SOURCE 4: CU-1 condenser unit
SOURCE 5: CU-2 condenser unit
SOURCE 6: KEF-PH exhaust fan
SOURCE 7: MAU-PH fan
SLIM ALL SOURCES:

Sound L	evel Con	tributions	at Recei	ver 3						
31.5	<u>63</u>	125	250	500	1000	2000	4000	8000	A-Wt	Z-Wt
31.2	33.8	33.0	27.8	23.1	18.9	11.4	1.7	-8.2	25.3	38.2
33.6	36.4	36.1	31.5	27.6	24.1	17.2	7.8	-1.8	29.6	41.2
29.4	32.3	26.2	28.0	27.7	26.0	22.0	21.5	11.5	30.7	36.9
30.8	33.6	36.2	35.4	31.1	29.4	24.2	17.7	11.9	34.0	41.3
30.9	33.6	36.2	35.5	31.3	29.6	24.5	18.0	12.2	34.2	41.4
29.7	32.6	38.4	40.2	37.6	30.8	25.4	20.5	15.2	37.9	44.4
36.9	39.6	40.1	34.2	25.9	21.0	16.7	13.1	6.4	 30.2	44.4
41.1	43.8	45.1	43.6	40.1	35.9	30.7	26.1	19.4	41.7	50.3

For clarification on concerns with sound levels at the property line with both the existing chiller and new equipment running simultaneously:

The north face of the existing building with the roof mounted chillers is 168 feet from the property line, and the north face of the new Parish Hall with rooftop mounted equipment in a mechanical well will be 84 feet from the property line. The existing chillers are therefore about twice as far from the residential properties as the new equipment. Even if equal sound power is propagated in the north direction from both locations, the existing chillers will be 6 dB lower due to distance. So, the calculated sound level of 43.1 dBA with new equipment listed above would be raised to 44 dBA with the existing chiller sound energy added.

This is significantly lower than even the lowest property line measurement taken of the existing equipment.

ROOFTOP HVAC EQUIPMENT NOISE CALCULATIONS

Client: Merriman Holt Powell Architects Project: St. Francis Episcopal Church Parish Hall

Project Number: 119.01117.00014 By: Ashton Taylor Date: May 14, 2020

NOTES

Piney Point Village does not specify an allowable sound level in their noise ordinance. Reference: City of Houston daytime (8:00 A.M. to 10:00 P.M.) allowable sound level: 65 dBA Reference: City of Houston nighttime (10:00 P.M. to 8:00 A.M.) allowable sound level: 58 dBA Reference: Existing average sound level at the SFEC north property line: 55 dBA



RECEIVER 1 Property Line SOURCE 1: DOAS-1 (radiated) rooftop unit SOURCE 2: DOAS-2 (radiated) rooftop unit SOURCE 3: RTU-PH (radiated) rooftop unit SOURCE 4: CU-1 condenser unit SOURCE 5: CU-2 condenser unit SOURCE 6: KEF-PH exhaust fan SOURCE 7: MAU-PH fan

SUM ALL SOURCES:

Sound Lo	ound Level Contributions at Receiver 1										
31.5	<u>63</u>	125	250	<u>500</u>	<u>1000</u>	2000	4000	8000		A-Wt	Z-Wt
35.4	37.5	36.2	30.4	25.2	20.6	12.8	3.0	-7.0		27.6	41.7
36.8	39.0	37.8	32.1	26.9	22.3	14.6	4.7	-5.2		29.2	43.2
33.1	35.7	28.8	29.6	27.8	24.5	19.0	17.2	6.3		29.5	39.3
34.1	36.2	37.9	36.1	30.9	28.3	22.5	15.7	9.7		33.6	42.8
34.0	36.2	37.9	36.1	30.9	28.3	22.5	15.7	9.7		33.6	42.8
34.2	37.0	42.5	43.8	40.6	32.9	26.8	21.3	15.5		40.8	48.0
40.6	42.8	42.6	35.8	26.6	21.1	16.3	12.5	5.5		31.6	47.3
44.7	47.0	47.7	46.0	42.0	36.0	30.0	24.6	18.2		43.1	53.0

Direct So	ound Lev	el Contril	butions a	t Receive	er 1 (as if	no barrie	r)			
<u>31.5</u>	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	2000	<u>4000</u>	8000	A-Wt	Z-Wt
41.2	44.2	44.2	40.2	37.2	35.2	30.2	23.2	16.2	39.8	49.3
42.5	45.5	45.5	41.5	38.5	36.5	31.5	24.5	17.5	41.1	50.6
38.4	41.4	35.4	37.4	37.4	36.4	33.4	34.4	26.4	41.7	46.6
39.9	42.9	45.9	45.9	42.9	42.9	39.9	35.9	32.9	47.3	52.0
39.9	42.9	45.9	45.9	42.9	42.9	39.9	35.9	32.9	47.3	52.0
39.2	42.2	48.2	50.2	48.2	42.2	38.2	35.2	32.2	49.0	54.6
46.4	49.4	50.4	45.4	38.4	35.4	33.4	32.4	28.4	43.0	54.6
50.4	53.4	55.0	53.9	51.1	48.5	45.2	42.0	38.3	53.9	60.6

RECEIVER 2	First Floor of House
SOURCE 1:	DOAS-1 (radiated) rooftop unit
SOURCE 2:	DOAS-2 (radiated) rooftop unit
SOURCE 3:	RTU-PH (radiated) rooftop unit
SOURCE 4:	CU-1 condenser unit
SOURCE 5:	CU-2 condenser unit
SOURCE 6:	KEF-PH exhaust fan
SOURCE 7:	MAU-PH fan
	SUM ALL SOURCES:

fan		
	SUM ALL	SOURCES:

Sound L	evel Con	tributions	at Rece	iver 2						
<u>31.5</u>	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	<u>2000</u>	<u>4000</u>	8000	A-Wt	Z-Wt
31.0	33.5	32.5	27.1	22.1	17.8	10.2	0.4	- 9.5	24.4	37.8
33.3	36.0	35.4	30.4	25.9	21.9	14.5	4.9	-4.9	28.0	40.5
29.2	32.1	25.8	27.3	26.5	24.2	19.4	18.2	7.6	28.9	36.3
30.6	33.2	35.4	34.2	29.6	27.4	21.9	15.2	9.3	32.3	40.4
30.6	33.2	35.5	34.3	29.7	27.6	22.1	15.3	9.5	32.4	40.5
29.6	32.5	38.2	39.9	37.2	30.1	24.5	19.4	13.9	37.4	44.1
36.7	39.2	39.5	33.3	24.5	19.4	14.8	11.1	4.2	29.1	43.9
40.8	43.5	44.5	42.9	39.2	34.3	28.8	23.8	17.3	40.6	49.7

Direct Sound Level Contributions at Receiver 2 (as if no barrier)												
<u>31.5</u>	<u>63</u>	<u>125</u>	250	<u>500</u>	1000	2000	4000	8000	A-Wt	Z-Wt		
36.4	39.4	39.4	35.4	32.4	30.4	25.4	18.4	11.4	35.1	44.6		
38.5	41.5	41.5	37.5	34.5	32.5	27.5	20.5	13.5	37.1	46.6		
34.1	37.1	31.1	33.1	33.1	32.1	29.1	30.1	22.1	37.3	42.2		
35.8	38.8	41.8	41.8	38.8	38.8	35.8	31.8	28.8	43.3	48.0		
35.8	38.8	41.8	41.8	38.8	38.8	35.8	31.8	28.8	43.3	48.0		
34.4	37.4	43.4	45.4	43.4	37.4	33.4	30.4	27.4	44.2	49.9		
42.0	45.0	46.0	41.0	34.0	31.0	29.0	28.0	24.0	38.6	50.2		
46.0	49.0	50.6	49.5	46.7	44.2	40.9	37.8	34.0	49.5	56.2		

RECEIVER 3 Second Floor of House
SOURCE 1: DOAS-1 (radiated) rooftop unit
SOURCE 2: DOAS-2 (radiated) rooftop unit
SOURCE 3: RTU-PH (radiated) rooftop unit
SOURCE 4: CU-1 condenser unit
SOURCE 5: CU-2 condenser unit
SOURCE 6: KEF-PH exhaust fan
SOURCE 7: MAU-PH fan
SUM ALL SOURCES:

Sc	Sound Level Contributions at Receiver 3												
	<u>31.5</u>	<u>63</u>	<u>125</u>	<u>250</u>	<u>500</u>	<u>1000</u>	2000	<u>4000</u>	<u>8000</u>		A-Wt	Z-Wt	
	31.2	33.8	33.0	27.8	23.1	18.9	11.4	1.7	-8.2		25.3	38.2	
	33.6	36.4	36.1	31.5	27.6	24.1	17.2	7.8	-1.8		29.6	41.2	
	29.4	32.3	26.2	28.0	27.7	26.0	22.0	21.5	11.5		30.7	36.9	
	30.8	33.6	36.2	35.4	31.1	29.4	24.2	17.7	11.9		34.0	41.3	
	30.9	33.6	36.2	35.5	31.3	29.6	24.5	18.0	12.2		34.2	41.4	
	29.7	32.6	38.4	40.2	37.6	30.8	25.4	20.5	15.2		37.9	44.4	
	36.9	39.6	40.1	34.2	25.9	21.0	16.7	13.1	6.4	_	30.2	44.4	
	41.1	43.8	45.1	43.6	40.1	35.9	30.7	26.1	19.4		41.7	50.3	

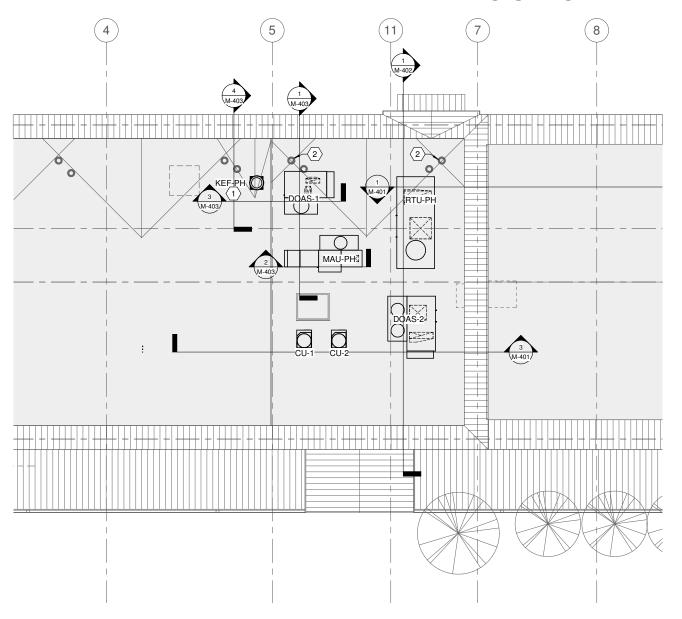
Direct So	Direct Sound Level Contributions at Receiver 3 (as if no barrier)												
<u>31.5</u>	<u>63</u>	125	250	<u>500</u>	<u>1000</u>	2000	<u>4000</u>	8000	A-Wt	Z-Wt			
36.5	39.5	39.5	35.5	32.5	30.5	25.5	18.5	11.5	35.1	44.6			
38.5	41.5	41.5	37.5	34.5	32.5	27.5	20.5	13.5	37.2	46.7			
34.2	37.2	31.2	33.2	33.2	32.2	29.2	30.2	22.2	37.4	42.3			
35.9	38.9	41.9	41.9	38.9	38.9	35.9	31.9	28.9	43.3	48.1			
35.9	38.9	41.9	41.9	38.9	38.9	35.9	31.9	28.9	43.4	48.1			
34.5	37.5	43.5	45.5	43.5	37.5	33.5	30.5	27.5	44.3	49.9			
42.0	45.0	46.0	41.0	34.0	31.0	29.0	28.0	24.0	38.6	50.2			
46.1	49.1	50.7	49.6	46.7	44.3	41.0	37.8	34.1	49.6	56.3			

NEW PROPOSED ROOFTOP UNITS -IN PROPOSED MECHANICAL ROOFTOP WELL

NEW PROPOSED ROOFTOP UNITS -IF NOT IN WELL / NO BARRIER

HVAC (Heating, Ventilation, Air Conditioning) Unit Cut Sheets

HVAC Unit Cut sheets



Roof plan indicating rooftop mounted HVAC equipment



24-Ton VRV-IV Heat Recovery Unit - 230V REYQ288TTJU

FEATURES

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times

BENEFITS

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Continuous heating during defrost and oil return allows constant comfort
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting.











24-Ton VRV-IV Heat Recovery Unit - 230V REYQ288TTJU

PERFORMANCE			
Outdoor Unit Model No.	REYQ288TTJU	Outdoor Unit Name:	24-Ton VRV-IV Heat Recovery Unit - 230V
Туре:	Heat Recovery	Unit Combination:	REYQ144TTJU(x2)
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 /	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	268,000	Rated Heating Capacity (Btu/hr):	300,000
Nom Cooling Capacity (Btu/hr):	288,000	Nom Heating Capacity (Btu/hr):	324,000
Cooling Input Power (kW):	23.50	Heating Input Power (kW):	28.80
EER (Non-Ducted/Ducted):	11.80 / 10.90	Heating COP (Non-Ducted/Ducted):	3.5 / 3.3
IEER (Non-Ducted/Ducted):	21.40 / 18.20	Heating COP 17F (Non-Ducted/Ducted):	2.4 / 2.2
		SCHE (Non-Ducted/Ducted):	23.30 / 21.40

OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208-230 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	5 - 100
Min. Circuit Amps MCA (A):	55+55	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	70+70	Airflow Rate (H) (CFM):	8228+8228
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-3/8
Rated Load Amps RLA(A):	(16.2+22.6)x2	Liquid Pipe Connection (inch):	3/4
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	1-1/8
Dimensions (Width) (in):	97-3/4	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure () (dBA):	
Net Weight (lb):	780+780	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	49

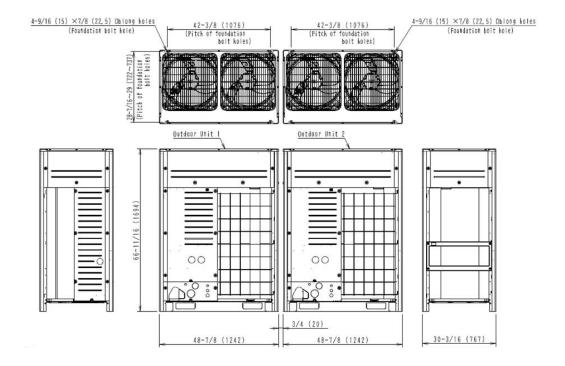
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



24-Ton VRV-IV Heat Recovery Unit - 230V REYQ288TTJU

SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8+25.8	Heating Operation Range (°F WB):	-13 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING



Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



18-Ton VRV-IV Heat Recovery Unit - 230V REYQ216TTJU

FEATURES

- Variable Refrigerant Temperature (VRT) control allows the VRV IV to deliver up to 28% of improvement in seasonal cooling efficiency compared to previous Daikin VRV heat recovery systems
- Improved efficiency with IEER values now up to 29.3
- Can provide heating down to -13°F WB as standard
- Larger capacity single modules ranging up to 14 tons and systems up to 38 tons allow for a more flexible system design, when compared to VRV III
- New configurator software designed to simplify the commissioning and maintenance of the system
- Standard Limited Warranty: 10-year warranty on compressor and all parts
- Larger capacity single modules allow for opportunity to reduce electrical connections, piping connections and outdoor unit mounting fixtures
- All inverter compressors to increase the efficiency and avoid starting current inrush
- Assembled in the US to increase flexibility and reduce lead times

BENEFITS

- Can operate up to 64 indoor units on a single piping network
- Inverter control board cooled by refrigerant to avoid influence from ambient temperatures
- Integrated inverter technology deliver maximum efficiency during part load conditions and provide precise individual zone control
- Heat exchanger coil wraps around on all 4 sides of the unit to increase the surface area/efficiency
- Continuous heating during defrost and oil return allows constant comfort
- Modular and lightweight enables flexibility in system layout and installation
- Ultra gold fin coating with a salt spray test rating of 1000 hours provides superior corrosion resistance for applications near seacoasts and other corrosive environments
- Design flexibility with long piping lengths up to 3,280 ft. total and 100 ft. vertical separation between indoor units
- Designed with reduced MOP to optimize installation cost
- Digital display on the unit for improved and faster configuration, commissioning, and troubleshooting.











18-Ton VRV-IV Heat Recovery Unit - 230V REYQ216TTJU

PERFORMANCE			
Outdoor Unit Model No.	REYQ216TTJU	Outdoor Unit Name:	18-Ton VRV-IV Heat Recovery Unit - 230V
Туре:	Heat Recovery	Unit Combination:	REYQ120TTJU + REYQ96TTJU
Rated Cooling Conditions:	Indoor (°F DB/WB): 80 / 67 Ambient (°F DB/WB): 95 /	Rated Heating Conditions:	Indoor (°F DB/WB): 70 / Ambient (°F DB/WB): 47 / 43
Rated Piping Length(ft):			
Rated Height Difference (ft):			
Rated Cooling Capacity (Btu/hr):	200,000	Rated Heating Capacity (Btu/hr):	226,000
Nom Cooling Capacity (Btu/hr):	216,000	Nom Heating Capacity (Btu/hr):	243,000
Cooling Input Power (kW):	16.10	Heating Input Power (kW):	22.20
EER (Non-Ducted/Ducted):	12.50 / 12.40	Heating COP (Non-Ducted/Ducted):	3.7 / 3.7
IEER (Non-Ducted/Ducted):	22.90 / 20.20	Heating COP 17F (Non-Ducted/Ducted):	2.5 / 2.3
		SCHE (Non-Ducted/Ducted):	25.60 / 22.50

OUTDOOR UNIT DETAILS			
Power Supply (V/Hz/Ph):	208-230 / 60 / 3	Compressor Type	Inverter
Power Supply Connections:	L1, L2, L3 Ground	Capacity Control Range (%):	5 - 100
Min. Circuit Amps MCA (A):	38+43	Capacity Index Limit:	-
Max Overcurrent Protection (MOP) (A):	45+50	Airflow Rate (H) (CFM):	5827+6286
Max Starting Current MSC(A):		Gas Pipe Connection (inch):	1-1/8
Rated Load Amps RLA(A):	(13.7+13.7)+(15.0+15.0)	Liquid Pipe Connection (inch):	5/8
Dimensions (Height) (in):	66-11/16	H/L Pressure Connection (inch)	1-1/8
Dimensions (Width) (in):	97-3/4	H/L Equalizing Connection (inch)	
Dimensions (Depth) (in):	30-3/16	Sound Pressure () (dBA):	
Net Weight (lb):	703+703	Sound Power Level (dBA):	
		Max. No. of Indoor Units:	37

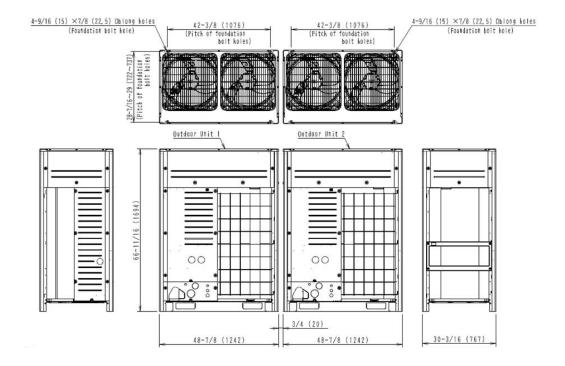
Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



18-Ton VRV-IV Heat Recovery Unit - 230V REYQ216TTJU

SYSTEM DETAILS			
Refrigerant Type:	R-410A	Cooling Operation Range (°F DB):	23 - 122
Holding Refrigerant Charge (lbs):	25.8+25.8	Heating Operation Range (°F WB):	-13 - 60
Additional Charge (lb/ft):		Max. Pipe Length (Vertical) (ft):	295
Pre-charge Piping (Length) (ft):		Cooling Range w/Baffle (°F DB):	-
Max. Pipe Length (Total) (ft):	540	Heating Range w/Baffle (°F WB):	-
Max Height Separation (Ind to Ind ft):			

DIMENSIONAL DRAWING



Daikin North America LLC, 5151 San Felipe, Suite 500, Houston, TX, 77056



Job Information		Technical Data Sheet
Job Name	St Francis Episcopal Chu	ırch
Date	7/15/2019	
Submitted By	Kimberly Thompson	
Software Version	07.50	
Unit Tag	DOAS-1	
Ū		



Unit Overview					
Model Number	Voltage	Design Cooling	EER@95/75 EAT	& 200 CFM/ton	ASHRAE 90.1
	V/Hz/Phase	Capacity Btu/hr	EER	IEER	
DPS007A	460/60/3	77489	11.7	Not Applicable	ASHRAE 90.1-2016 compliant

Unit	
Model Number:	DPS007A
Model Type:	Cooling
Heat Type:	Gas
Hot Gas Reheat:	MHGRH with Duct Humidity Sensor
Energy Recovery:	ERW-Med Cab-Econ: 2835 cfm max, 100% OA: 5145 cfm max
Application:	Variable Air Volume, Single Zone
Controls:	Microtech III
Outside Air:	100% Outside Air
Altitude:	0 ft
Approval	cETLus

Physical					
	Dimensions and Weight				
Length	Height	Width	Weight		
111.0 in	56.8 in	96.5 in	2432 lb		
Corner Weights					
Ц	L2	L3	L4		
427 lb	427 lb	789 lb	789 lb		
	Constr	uction			
Exterior	Insulation and Liners	Air Openin	g Location		
		Return	Supply		
Painted Galvanized Steel	1" Injected Foam, R-7, Galvanized Steel Liner	Bottom	Bottom		

Electrical			
Unit FLA	MCA	MROPD	SCCR
15.7 A	17.0 A	20 A	5 kAIC
Note:	Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.		

Return/Outside/Exhaust Air		
	Outside Air Option	
Туре	Damper Pressure Drop	Exhaust Air Type
None	0.03 inH₂O	Powered, Modulating with Building Pressure Control

Page 1 of 5

www.DaikinApplied.com

DOAS-1



	Exha	ust Fan	
Туре	Drive	е Туре	Wheel Diameter
SWSI AF	Direc	t Drive	14 in
	М	otor	
(Qty) Horsepower	Туре	Efficiency	Full Load Current (Each)
(1) 2.3 HP	ECM	Premium	2.3 A
	Perfo	rmance	
Air Flow CFM	External Static Pressure inH ₂ O	Fan Speed RPM	Brake Horsepower HP
1200	0.50	1316	0.27

Energy	Recovery										
Desi	gn OA Volu	me	Design Ex	khaust Volu	me	Wheel Pre	ssure Drop	Moto	r HP	Mot	or FLA
:	1500 сғм		12	00 CFM		0.35	inH₂O	0.17	HP	0.	4 A
						Summer (Conditions				
			Tempe	erature				Recovered		Effectiveness	
Outsi	de Air	Retu	ırn Air	Wheel	Leaving	Mixe	ed Air	Capacity	Total		Sensible
Ory Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Btu/hr			
97.5	77.0	76.0	62.0	81.9	67.2	81.9	67.2	54747	0.80		0.86
						Winter C	Conditions				
			Tempe	erature				Recovered		Effectiveness	
Outsi	de Air	Retu	ırn Air	Wheel	Leaving	Mixe	ed Air	Capacity	Total		Sensible
Ory Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Btu/hr			
20.0	19.0	70.0	50.0	55.1	42.0	55.1	42.0	62239	0.83		0.87
	Bypas	s Damper:	No								
						Energy Rec	overy Filters				
			Quantit	y/Size		Fá	ace Area	Face Ve	elocity	Air Pres	sure Drop
Efficie	ncy	Outdo	or	Exh	aust	Outdoo ft ²	r Exhaust	Outdoor ft/min	Exhaust ft/min	Outdoor inH₂O	Exhaust inH ₂ O
2 in. ME	ERV 8 (3) 18 in. 3	X 24 in.	(3) 18 in	. X 24 in.	9.0	9.0	166.7	133.3	0.03	0.02
Combined Efficiency Factor											
							racto.				

Filter Section				
		Physical		
Туре	Quantity / Size	Face Area	Face Velocity	Air Pressure Drop
Combo 2"/4" rack with 2" MERV 8	6 / 18 in x 24 in x 2 in	18.0 ft²	83.3 ft/min	0.01



DX Cooling Coi								
			Pł	nysical				
Coil Type	Refrigerant Type	Fins per Inch	Rows	Face Area	Face V	elocity	Air Pressure drop	Drain Pan Material
Cu Tube/ Al Fin	R410A	15	3	14.0 ft²	107.0	ft/min	0.06 inH₂O	Stainless Steel
			Cooling	Performance				
	Capacity			Indoor	Air Temperatur	·e		Ambient air
Total	Sensible	Moisture	Entering			Leaving		
UOM_OSelected _CoilTotal	Btu/hr	Removal lb/h	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dewpoint °F	°F
77489	52728	21.4	81.9	67.2	49.8	49.7	49.7	105.0
Condensate Cor	nnection Size: 3/4	in. Male NPT						

Hot Gas Reheat Coil Section					
Туре	Face Area	Air Pressure Drop	Total Capacity	Leaving Air 1	Temperature
				Dry Bulb	Wet Bulb
Aluminum Tube Micro-Channel	13.2 ft²	0.01 inH ₂ O	32952 Btu/hr	70.0 °F	57.8 °F

Fan Section					
		Fan			
Туре		Fan Wheel Diameter			Fan Isolation
SWSI AF	SWSI AF 14 in None				
		Performance			
Airflow	Total Static Pressure	Fan Speed	Brake	e Horsepower	Altitude
1500 CFM	2.5 inH₂O	2063 rpm	:	1.01 нр	0 ft
	M	otor			Drive
Туре	Horsepower	Efficiency		FLA	Туре
ECM Motor	2.3	Premium		2.3 A	Direct Drive

Gas Heat Section								
				Phy	sical			
Airflow		Max Allowable Burner Temp Rise			e Connection (Qty) Size		Heat Exch	nanger Material
1500 сғм	100.0	°F	200 MBH (1) 0.75 in		(1) 0.75 in. Female NPT		less Steel	
				Perfor	mance			
Capacity	Air Temperat	ure Dry Bulb		Air Pr	essure Drop	Gas Pr	essure	Modulation
Btu/hr	Entering °F	Leavi °F	6		inH₂O	Minimum inH₂O	Maximum inH₂O	
160000	20.0	118	.3		0.05	7	14	Modulating 10:1 Turndown

Unit Discharge Condition	ons			
		AirTemperature		
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb	Unit Leaving Wet Bulb	Unit Leaving Dewpoint
3170	21.4	51.7	50.4	49.7



Condensing Section	Condensing Section						
		Comp	ressor				
Туре	Quantity	Refrigerant Charge lb	- · · · · · · · · · · · · · · · · · · ·				
Inverter Scroll + Fixed Scroll	2	17.8	6.30 kW	Mod Control with Inverter Compressors	Rubber in Shear		
		Compres	sor Amps:				
	Compressor 1		5.4 A				
	Compressor 2		3.9 A				
Compressor Option	ns: Suction and Disc	harge Isolation Valves					
		Conder	ser Coil				
Туј	ре	Fins p	er Inch	Fin Ma	aterial		
Aluminum M	icrochannel	2	1	Alum	inum		
Coil Optio	Coil Options: ElectroFin Coated						
	Condenser Fan Motors						
	Number of Motors			Full Load Current (Total)			
	2			1.8 A			

Internal Pressure Drop Calculat	ion
External Static Pressure:	1.50 inH₂O
Filter:	0.01 inH₂O
Dirty Filter:	0.50 inH₂O
Outside Air:	$0.03 \text{ inH}_2\text{O}$
Energy Recovery:	0.38 inH ₂ O
DX Coil:	0.06 inH ₂ O
Hot Gas Reheat:	$0.01 \text{inH}_2\text{O}$
Gas Heat:	0.05 inH₂O
Total Static Pressure:	2.54 inH₂O

	Sound							
				Sound Po	wer (db)			
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	71	70	78	73	75	74	69	64
Discharge	71	73	81	78	81	80	77	72
Radiated	85	85	81	78	76	71	64	57

Options	
	Unit
Coil Coatings:	Condenser Coil Coated
	Electrical
Field Connection:	Non-Fused Disconnect Switch
Power Options:	Phase Failure Monitor
	Controls
Communication Card:	BACnet/MSTP card, Factory installed

Exhaust Leaving Wheel Temperature Sensor



Eaving Coil/Entering Fan Temperature Sensor Duct High Limit Switch BACnet/MSTP Card Return Air Temperature Sensor Discharge Air Temperature sensor – Wired in unit, mounted in supply duct Outside Air Temperature Sensor Dirty Filter On/Off Switch Supply Fan Air Proving Via Modbus Building Static Pressure Sensor Supply Leaving Wheel Temperature Sensor

Warranty	
Parts:	Standard One Year
Compressor:	Additional Four Year, Five Year Total
Gas Heat Exchanger:	Extended Nine Year, Ten Year Total

Notes

Accessories	
	Mandatory
Part Number	Description
910190890	HUMIDITY SENSOR, DUCT MOUNTED, 0-5VDC
	Optional
Part Number	Description
910143408	DDC Space Sensor with Setpoint Adj and Tenant Over
910239970	Outside Air Humidity Sensor with Sunscreen
910134603	14" Roof Curb, W/ERW, Size 007-015



Job Information		Technical Data Sheet
Job Name	St Francis Episcopal Chu	urch
Date	7/15/2019	
Submitted By	Kimberly Thompson	
Software Version	07.50	
Unit Tag	DOAS-2	



Unit Overview									
Model Number	Voltage	Design Cooling	EER@95/75 EAT	ASHRAE 90.1					
	V/Hz/Phase Capacity Btu/hr		EER	EER IEER					
DPS012A	460/60/3	128786	11.2	Not Applicable	ASHRAE 90.1-2016 compliant				

Unit	
Model Number:	DPS012A
Model Type:	Cooling
Heat Type:	Gas
Hot Gas Reheat:	MHGRH with Duct Humidity Sensor
Energy Recovery:	ERW-Med Cab-Econ: 2835 cfm max, 100% OA: 5145 cfm max
Application:	Variable Air Volume, Single Zone
Controls:	Microtech III
Outside Air:	100% Outside Air
Altitude:	0 ft
Approval	cETLus

Physical							
	Dimensions	and Weight					
Length	Height	Width	Weight				
111.0 in	56.8 in	96.5 in	2610 lb				
Corner Weights							
u	L2	L3	L4				
414 lb	425 lb	896 lb	875 lb				
	Constr	uction					
Exterior	Insulation and Liners	Air Openin	g Location				
		Return	Supply				
Painted Galvanized Steel	1" Injected Foam, R-7, Galvanized Steel Liner	Bottom	Bottom				

Electrical			
Unit FLA	MCA	MROPD	SCCR
22.8 A	24.8 A	30 A	5 kAIC
Note:	Use only copper supply wires w terminals must be made with co	ith ampacity based on 75° C cond opper lugs and copper wire.	uctor rating. Connections to

Return/Outside/Exhaust Air		
	Outside Air Option	
Туре	Damper Pressure Drop	Exhaust Air Type
None	0.08 inH ₂ O	Powered, Modulating with Building Pressure Control

Page 1 of 5

www.DaikinApplied.com



Exhaust Fan								
Туре	Drive	е Туре	Wheel Diameter					
SWSI AF	Direc	t Drive	14 in					
Motor								
(Qty) Horsepower	Туре	Efficiency	Full Load Current (Each)					
(1) 2.3 HP	ECM	ECM Premium						
	Perfo	rmance						
Air Flow CFM	External Static Pressure inH ₂ O	Fan Speed RPM	Brake Horsepower HP					
2200	0.50	1945	0.80					

Energy I	Recovery										
Desi	Design OA Volume Design Exhaust Volume Wheel Pressure Drop				ssure Drop	Motor HP		Mot	Motor FLA		
2	2500 сғм		22	00 сғм		0.56	inH₂O	0.17	' HP	0.	4 A
	Summer Condition					Conditions					
Temperature					Recovered		Effectiveness				
Outsi	de Air	Retu	rn Air	Wheel	Leaving	Mixe	ed Air	Capacity	Total		Sensible
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Btu/hr			
97.5	77.0	76.0	62.0	82.6	67.7	82.6	67.7	88743	0.72		0.76
Winter Conditions											
			Tempe	erature				Recovered		Effectiveness	
Outsi	de Air	Retu	rn Air	Wheel	Leaving	Mixe	ed Air	Capacity	Total		Sensible
Ory Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Btu/hr			
20.0	19.0	70.0	50.0	53.3	41.0	53.3	41.0	100521	0.75		0.76
	Bypass	Damper:	No								
						Energy Reco	overy Filters				
			Quantit	y/Size		Fa	ace Area	Face Ve	elocity	Air Pres	sure Drop
Efficie	Efficiency Outdoor Exhaust		Outdoo ft ²	r Exhaust	Outdoor ft/min	Exhaust ft/min	Outdoor inH₂O	Exhaust inH₂O			
2 in. ME	ERV 8 (3) 18 in.)	< 24 in.	(3) 18 in	. X 24 in.	9.0	9.0	277.8	244.4	0.09	0.07
					С	ombined Eff	ficiency Factor				
Application Specific CEF: 14.0											

Filter Section				
		Physical		
Туре	Quantity / Size	Face Area	Face Velocity	Air Pressure Drop
Combo 2"/4" rack with 2" MERV 8	6 / 18 in x 24 in x 2 in	18.0 ft²	138.9 ft/min	0.04



DX Cooling Coil									
Physical									
Coil Type	Coil Type Refrigerant Type Fins per Inch Rows Face Area Face Velocity Air Pressure drop								
Cu Tube/ Al Fin	R410A	15	4	15.4 ft	ft ² 162.0 ft/min		ft/min 0.14 inH₂O		
			Cooling	g Performance					
	Capacity			Indoo	r Air Temperatu	re		Ambient air	
Total	Sensible	Moisture	Enteri	ing		Leaving		Temperature	
UOM_OSelected _CoilTotal	Btu/hr	Removal lb/h	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dewpoint °F	°F	
128786	87743	35.4	82.6	67.7	50.5	50.5	50.5	105.0	
Condensate Connection Size: 3/4 in. Male NPT									

Hot Gas Reheat Coil Section						
Type Face Area		Air Pressure Drop	Total Capacity	Leaving Air Temperature		
				Dry Bulb	Wet Bulb	
Aluminum Tube Micro-Channel	14.6 ft²	0.03 inH ₂ O	52838 Btu/hr	70.0 °F	58.2 °F	

Fan Section					
		Fan			
Туре	Type Fan Wheel Diameter Fan Isolation				
SWSI AF	AF 16 in None				None
	Performance				
Airflow	Total Static Pressure	Fan Speed	Brak	e Horsepower	Altitude
2500 сғм	3.1 inH₂O	2087 rpm		1.86 нр	0 ft
Motor					Drive
Туре	Horsepower	Efficiency		FLA	Туре
ECM Motor	4.0	Premium		4.0 A	Direct Drive

Gas Heat Section							
	Physical						
Airflow		Max Allowable Burner Siz Temp Rise		Connection (Qty) Size		Heat Exch	anger Material
2500 сғм	60.0) °F 200 MBH		(1) 0.75 in. Female NPT		Stainless Steel	
			Perfo	rmance			
Capacity	Air Temperat	ure Dry Bulb	Air P	ressure Drop	Gas Pr	essure	Modulation
Btu/hr	Entering °F	Leaving °F	g	inH₂O	Minimum inH₂O	Maximum inH₂O	
160000	20.0	79.0		0.14	7	14	Modulating 10:1 Turndown

Unit Discharge Condition	ns			
		AirTemperature		
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
5755	35.4	52.7	51.2	50.5



Condensing Section						
	Compressor					
Туре	Quantity	Refrigerant Charge lb	Total Power	Capacity Control	Compressor Isolation	
Inverter Scroll + Fixed Scroll	2	25.8	10.53 kW	Mod Control with Inverter Compressors	Rubber in Shear	
	Compressor Amps:					
Compressor 1			6.8 A			
	Compressor 2		7.9 A			
Compressor Opti	Compressor Options: Suction and Discharge Isolation Valves					
		Conder	ser Coil			
Ту	pe	Fins p	per Inch Fin Material			
Aluminum N	1icrochannel	2	3	Alum	inum	
Coil Options: ElectroFin Coated						
Condenser Fan Motors						
	Number of Motors			Full Load Current (Total)		
2				1.8 A		

Internal Pressure Drop Calculat	ion
External Static Pressure:	1.50 inH₂O
Filter:	0.04 inH₂O
Dirty Filter:	0.50 inH₂O
Outside Air:	0.08 inH₂O
Energy Recovery:	0.65 inH₂O
DX Coil:	0.14 inH ₂ O
Hot Gas Reheat:	0.03 inH ₂ O
Gas Heat:	0.14 inH ₂ O
Total Static Pressure:	3.07 inH₂O

!	Sound							
				Sound Po	wer (db)			
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	76	74	82	77	79	73	68	62
Discharge	76	77	85	82	85	79	76	70
Radiated	85	85	81	78	76	71	64	57

Options	
	Unit
Coil Coatings:	Condenser Coil Coated
	Electrical
Field Connection:	Non-Fused Disconnect Switch
Power Options:	Phase Failure Monitor
	Controls
Communication Card:	BACnet/MSTP card, Factory installed

DOAS-2

Rebel® Packaged Rooftop System



Eaving Coil/Entering Fan Temperature Sensor

Duct High Limit Switch

BACnet/MSTP Card

Return Air Temperature Sensor

Discharge Air Temperature sensor – Wired in unit, mounted in supply duct

Outside Air Temperature Sensor

Dirty Filter On/Off Switch

Supply Fan Air Proving Via Modbus

Building Static Pressure Sensor

Supply Leaving Wheel Temperature Sensor

Exhaust Leaving Wheel Temperature Sensor

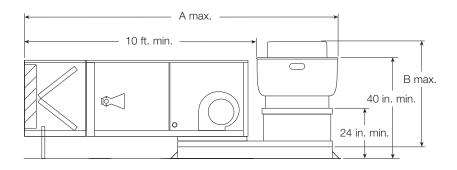
Warranty	
Parts:	Standard One Year
Compressor:	Additional Four Year, Five Year Total
Gas Heat Exchanger:	Extended Nine Year, Ten Year Total

Notes

Accessories					
	Mandatory				
Part Number	Description				
910190890	HUMIDITY SENSOR, DUCT MOUNTED, 0-5VDC				
	Optional				
Part Number	Description				
910143408	DDC Space Sensor with Setpoint Adj and Tenant Over				
910239970	Outside Air Humidity Sensor with Sunscreen				
910134603	14" Roof Curb, W/ERW, Size 007-015				

XDG Dimensions

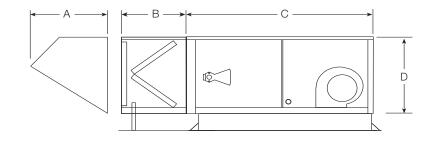
COMBINATION PACKAGE - ARRANGEMENT DBC



Housing Size	Α*	B*	Width
H10	159.5	47	35.5
H20	172.8	57.8	50
H30	199	63.3	58.8

All dimensions in inches. *Based on largest available XRUB exhaust fan.

STAND ALONE - ARRANGEMENT DB



Housing Size	Max MBH
H10	400
H20	800
H30	1600

Housing		A			B* C		C D		VAC -IAI
Housing Size	Filtered	Louvered	Birdscreen*				Width		
H10	31.8	27.5	26.3	27.8	78.3	33.8	28		
H20	34.8	30.3	32.3	30.3	86.3	33.8	37		
H30	65.3	33.3	28.3	33	101.8	42.5	48		

All dimensions in inches

*The birdscreen weatherhood requires an additional filter section. The additional filter section is optional with the filtered or louvered weatherhood.



Job Information		Technical Data Sheet			
Job Name	St Francis Episcopal Chu	ırch			
Date	7/15/2019				
Submitted By	Kimberly Thompson				
Software Version	07.50				
Unit Tag	RTU-1				



Unit Overview								
Model Number	Voltage	Design Cooling	AHRI360 Stand	ASHRAE 90.1				
V/Hz/Phase		Capacity Btu/hr	EER	IEER				
DPS020A	460/60/3	228546	10.4	19.5	ASHRAE 90.1-2016 compliant			

Unit	
Model Number:	DPS020A
Model Type:	Cooling
Heat Type:	Gas
Energy Recovery:	None
Application:	Variable Air Volume, Single Zone
Controls:	Microtech III
Outside Air:	0-100% Economizer with Comparative Enthalpy Control
Altitude:	0 ft
Approval	cETLus

Physical								
Dimensions and Weight								
Length	Height	Width	Weight					
162.3 in	70.5 in	76.5 in	3707 lb					
Corner Weights								
L1	L2	L3	L4					
836 lb	1113 lb	1004 lb	754 lb					
	Constr	uction						
Exterior	Insulation and Liners	Air Opening Location						
		Return	Supply					
Painted Galvanized Steel	2" Injected Foam, R13, Galvanized Steel Liner	Bottom	Bottom					

Electrical							
Unit FLA	MCA	MROPD	SCCR				
40.2 A	47.7 A	70 A	10 kAIC				
Note: Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.							

Return/Outside/Exhaust Air							
Outside Air Option							
Туре	Damper Pressure Drop	Exhaust Air Type					
90.1 and California Title 24 Compliant Economizer	0.12 inH₂O	Barometric Relief					



Filter Section				
		Physical		
Туре	Quantity / Size	Face Area	Face Velocity	Air Pressure Drop
Combo 2"/4" rack with 2" MERV 8	9 / 18 in x 24 in x 2 in	27.0 ft ²	185.2 ft/min	0.07

DX Cooling Coi	I							
Physical								
Coil Type	Refrigerant Type	Fins per Inch	Rows	Face Area	a Face \	Velocity	Air Pressure drop	Drain Pan Material
Cu Tube/ Al Fin	R410A	15	4	21.4 ft ²	233.6	6 ft/min	0.22 inH₂O	Stainless Steel
			Cooling	Performance				
	Capacity			Indoo	r Air Temperatu	re		Ambient air
Total	Sensible	Moisture	Enterir	ng		Leaving	Temperature	
UOM_OSelected _CoilTotal	Btu/hr	Removal lb/h	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dewpoint °F	°F
228546	168130	51.9	82.4	66.9	51.7	51.7	51.7	105.0
Condensate Connection Size: 1.0 in. Male NPT								

Fan Section								
Fan								
Туре			Fan Wheel Diameter			Fan Isolation		
SWSI AF			20 in Spring Isolation			ring Isolation		
Performance								
Airflow	Total Static Pressure		Fan Speed Bra		ke Horsepower	Altitude		
5000 CFM	2.6 inH₂O		1857 rpm		3.72 нр	0 ft		
		Mo	tor			Drive		
Туре	Horsepower		Efficiency		FLA	Туре		
premium Eff Induction Motor with Shaft Grounding	5.0		Premium		6.6 A	Direct Drive		

s Heat Section									
Physical									
Airflow	Airflow Max Allowable Burner Temp Rise		Siz	e	e Connection (Qty) Size		Heat Exch	Heat Exchanger Material	
5000 сғм	60.0	60.0 °F		ИВH	(2) 0.75 in. Female NPT		Stair	less Steel	
Performance									
Capacity	Air Temperature Dry Bulb			Air Pressure Drop		Gas Pr	essure	Modulation	
Btu/hr	Entering °F	Leavi °F	ng		inH₂O	Minimum inH₂O	Maximum inH₂O		
240000	60.0	104.2		0.15		7	14	Modulating 12:1 Turndown	
Note:	Two gas connection details on piping.	ns inside tl	ne unit.	Single p	oipe enters u	nit and splits to tv	vo mainifolds. Re	fer to IM 1125 for	

Unit Discharge Condition	ns			
		AirTemperature		
Motor Heat	Moisture Removal	Unit Leaving Dry Bulb	Unit Leaving Wet Bulb	Unit Leaving Dewpoint
Btu/hr	lb/h	°F	°F	°F
10756	51.9	53.7	52.3	51.7

Page 2 of 4

www.DaikinApplied.com



			C	ompressor					
Туре	Qu	uantity	Refrigerant Charge	Total	Power	Capacity Control	Com	pressor Isolatio	
Inverter Scro	II	1	32.5	20.3	36 kW	Mod Control with Inverter Compressor	s Ru	bber in Shea	
			Comp	ressor Amps:					
	Comp	oressor 1				30.1 A			
Compresso	r Options: Suc	tion and Dis	charge Isolation Val	ves					
			Cor	denser Coil					
	Туре		Fi	ns per Inch		Fir	Fin Material		
Alumin	um Microchan	nel		23			Aluminum		
Coi	il Options: Elec	troFin Coate	ed						
			Conde	ser Fan Motors	;				
	Numbe	r of Motors	Full Load Current (Total)						
1			3.5 A						
			AHRI 360 Certified Data	at AHRI 360 Sta	indard Cond	ditions			
Net Capacity			EER IEER			AS	ASHRAE 90.1		
242000 Btu/hr			10.4	10.4 19.5 ASHRAE 90.1-2016 compliant					
ternal Pressu	re Drop Calcula	ation							
External Static Pressure:			1.50 inH₂O						
Filter:			0.07 inH₂O						
Dirty Filter:			0.50 inH₂O						
Outside Air:			0.12 inH₂O						
DX Coil:		:	0.22 inH ₂ O						
Gas Heat:			0.15 inH ₂ O						
To	tal Static Pressure	:			2.57 in	nH₂O			
So	ound								
50				Sound Powe	er (db)				
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	
Inlet	77	76	84	76	71	70	65	62	
Discharge	83	82	87	82	80	77	72	67	

Radiated	80	74	70	70	/3	12	/3	03
Options								
Unit								
	Coil Coatings:	Condense	Condenser Coil Coated					
Electrical								
	Field Connection:	Non-Fuse	Non-Fused Disconnect Switch					
	Power Options:	Phase Failure Monitor						

Communication Card: BACnet/MSTP card, Factory installed

RTU-1

Rebel® Packaged Rooftop System



Factory Installed Sensors Leaving Coil/Entering Fan Temperature Sensor Duct High Limit Switch BACnet/MSTP Card Return Air Temperature Sensor Discharge Air Temperature sensor – Wired in unit, mounted in supply duct

Outside Air Temperature Sensor

Return Air Enthalpy Sensor

Outside Air Enthalpy Sensor

Dirty Filter On/Off Switch

Supply Fan Air Proving Via Modbus

Warranty	
Parts:	Standard One Year
Compressor:	Additional Four Year, Five Year Total
Gas Heat Exchanger:	Extended Nine Year, Ten Year Total

AHRI Certification



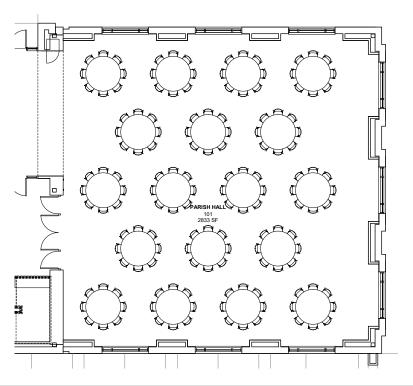
All equipment is rated and certified in accordance with AHRI 360.

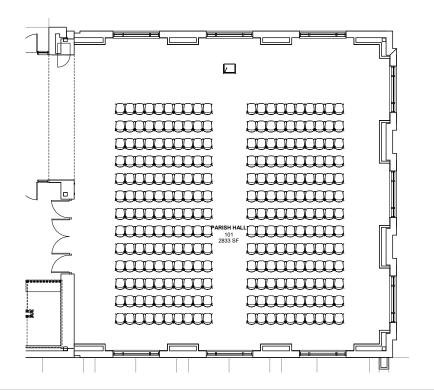
Notes

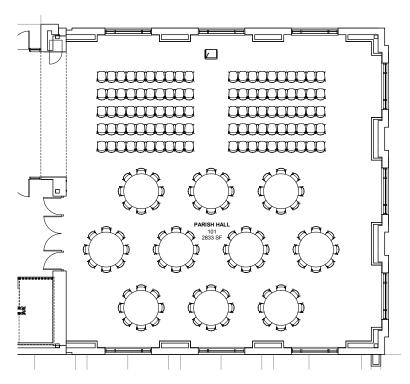
Accessories	
	Optional
Part Number	Description
910154223	14" Roof Curb, No ERW, Size 016-028

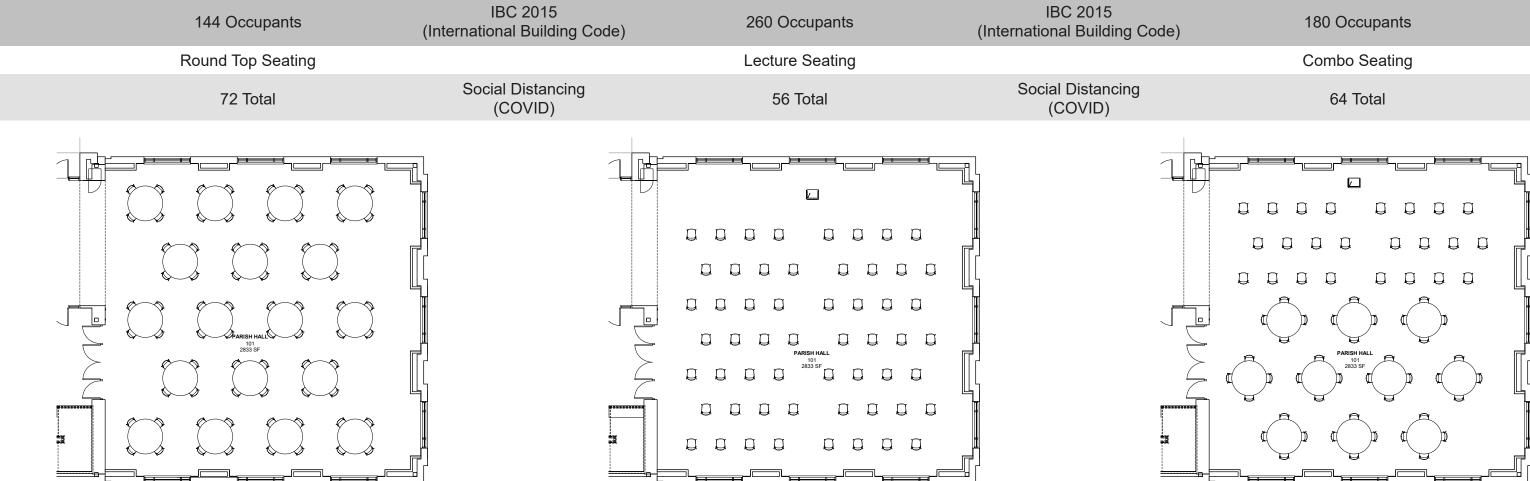
Social Distancing

Social Distancing - Parish Hall Comparison

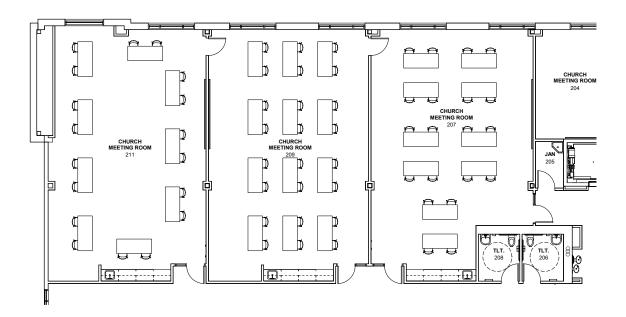








Social Distancing - Church Meeting Room Comparison



Church Meeting Room Occupancy Count

57	59	55	IBC 2015
18	24	20	Social Distancing (Covid)

Contractor Letter to Neighbors and COVID Mitigation Measures



Greetings Piney Point Neighbor,

I am writing this letter to all of the surrounding area neighbors as we are getting ready to begin construction on a new Parish Hall for St. Francis Episcopal Church at 345 Piney Point Road. As you know, this process will cause some temporary changes to your neighborhood. I would like you to know that we are here to make this as pleasant and friendly an experience as possible.

Houstonians have relied upon Tellepsen for the places they live, work, play and worship for over a century. Established in 1909, we are in our fourth generation of continuous family ownership, providing quality construction services to Houston clients. We understand what is takes to build a project of the quality level required by Piney Point Village.

Should you have any questions or if a problem does arise, please feel free to contact me and I will be happy to speak with you. My contact number is listed below. We appreciate your understanding in this matter, and if I can provide any further assistance please let me know.

Sincerely,

Tellef Tellepsen

Tellepsen Builders

Tellef Whysen

281-447-8100

COVID Mitigation Measures



COVID-19

Mitigation Plan
Revised 06/17/2020

BACKGROUND

The Coronavirus disease 19 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The disease was first identified in 2019 in Wuhan, China, and has since spread globally, resulting in the 2019–20 coronavirus pandemic. The global implications of the COVID-19 pandemic are changing at a very rapid pace. Tellepsen continues to monitor local, state and national agency reports and recommendations. The national Centers for Disease Control and Prevention (CDC) has established a website with a wealth of current information accessible here - https://www.cdc.gov/coronavirus/2019-ncov/index.html Other reliable sources include

OSHA - https://www.osha.gov/SLTC/covid-19/

World Health Organization - https://www.who.int/emergencies/diseases/novel-coronavirus-2019
Johns Hopkins Center for Health Security - https://www.who.int/emergencies/diseases/novel-coronavirus-2019
Johns Hopkins Center for Health Security - https://www.centerforhealthsecurity.org/resources/COVID-19/

MITIGATION ACTIVITIES - Individuals and Families

- Practice social distancing of a minimum 6 feet (no handshakes, keep a respectful distance, etc.)
- Frequently wash your hands with soap and water for 20 seconds. When soap and running water are
 unavailable, use an alcohol-based hand rub with at least 60% alcohol.
- Cough etiquette (coughing into your elbow or into a tissue)
- Don't touch your face
- Avoid touching your eyes, nose, or mouth with unwashed hands.
- Wipe down areas around you that you and/or others touch frequently.
- Limit movement in the community per governmental guidelines.
- Limit visitors
- Take additional measures to protect those at "high risk" (elderly, immune system issues, etc.)
- Create a household action plan in case of illness
- Know the symptoms of COVID-19 fever greater than 100.4° F, cough and shortness of breath
- Stay at home if you are showing symptoms of an illness (fever, headaches, chills, etc.) refrain from going to
 public places (workplace, grocery store, etc.) and contact your physician.

MITIGATION ACTIVITIES - Tellepsen Offices and Jobsites

- Practice social distancing of a minimum 6 feet (no handshakes, keep a respectful distance, etc.)
- Follow screening procedure outlined below. Access may be restricted.
- We will allow selected visitors in our offices and jobsites for scheduled meetings. They will be required to complete the Screening Questionnaire before entering.
- We highly encourage face coverings be used in common or public areas and when 6 ft social distancing is not feasible.
- No more than 2 employees at a time in common kitchens. All kitchen seating has been removed and we ask employees to not linger in kitchens longer than necessary.
- All meetings should be limited to meet social distancing standards. Utilize teleconferences and virtual meetings as much as possible
- Consider telework if it is feasible for your position and responsibility. Discuss with your supervisor if you
 chose to telework.
- Display CDC Wellness Tips at all locations where visible to all workers.
- Suspend all non-essential travel until further notice
- Clean offices and job trailers daily (desks, office equipment and doorknobs).
- No family members/children are allowed in the Tellepsen Offices and Jobsites

Any known COVID-19 cases involving <u>Tellepsen employees</u> should immediately be reported to Human Resources: Maryanne Henn (281) 824-0547

Any known cases involving <u>subcontractors/Vendors</u> should immediately be reported to the project superintendent who will communicate with Susan Phillips at (281) 541-8611.

COVID Mitigation Measures



COVID-19Mitigation Plan

Revised 06/17/2020

MITIGATION ACTIVITIES -Jobsite Specific

- Practice social distancing of a minimum 6 feet (no handshakes, keep a respectful distance, etc.)
- Accurately track workforce onsite.
- Limit crew stacking such that workers are spread out as much as possible.
- Do not share tools or any multi-user devices and accessories such as iPads, laptops, hand-held radios, computer stations, etc.
- Limit the exchange/sharing of paper documents by encouraging use of electronic communication whenever possible.
- Do not congregate in lunch and break areas.
- Do not share personal protection equipment (PPE).
- Sanitize reusable PPE per manufacturer's recommendation prior to each use.
- Ensure used PPE is disposed of properly
- Disinfect reusable supplies/equipment.
- Increase sanitation of portable/temporary toilets.
- Limit elevator usage when occupied with multiple people
- Community water coolers are highly discouraged.
- Clean surfaces of service/fleet vehicles, steering wheel, gear shift, instrument panels, etc.; use aerosol sanitizers inside closed cabs.

Any known COVID-19 cases involving <u>Tellepsen employees</u> should immediately be reported to Human Resources: Maryanne Henn (281) 824-0547

Any known cases involving <u>subcontractors/Vendors</u> should immediately be reported to the project superintendent who will communicate with Susan Phillips at (281) 541-8611.

SCREENING PROCEDURE

Effective March 17, 2020 Tellepsen is implementing a procedure to screen everyone (Tellepsen employees, subcontractors, vendors, delivery personnel, etc.) prior to their entering any Tellepsen office building or project site. Tellepsen employees must complete a digital Screening Questionnaire weekly or daily and again if any responses change. While others (subcontractors, owners, etc.) do not need to complete the hard copy, they must verbally acknowledge a negative response to all questions.

- 1. Do you currently have a fever?
- 2. Do you currently have a cough (unrelated to allergy or COPD)?
- 3. Do you currently have shortness of breath (unrelated to chronic illness)?
- 4. Have you traveled outside of Texas in the last 14 days?
- 5. Have you been in contact with a person who either (i) has been diagnosed with COVID-19 or (ii) is in the process of being tested for COVID-19?

If anyone answers "YES" to any of these questions they will not be allowed to enter the office/jobsite. If there is a case for an exception, the company leader must be contacted to make the exception.

Builders – Terry Hargus
BCS – Trent Tellepsen
Tellepsen Services – Eric Dipasquale

Industrial – Chip Fenoglio
TI Constructors – Steve Mechler

COVID Mitigation Measures



COVID-19 Mitigation Plan

Revised 06/17/2020

RESPONSE PROTOCOL

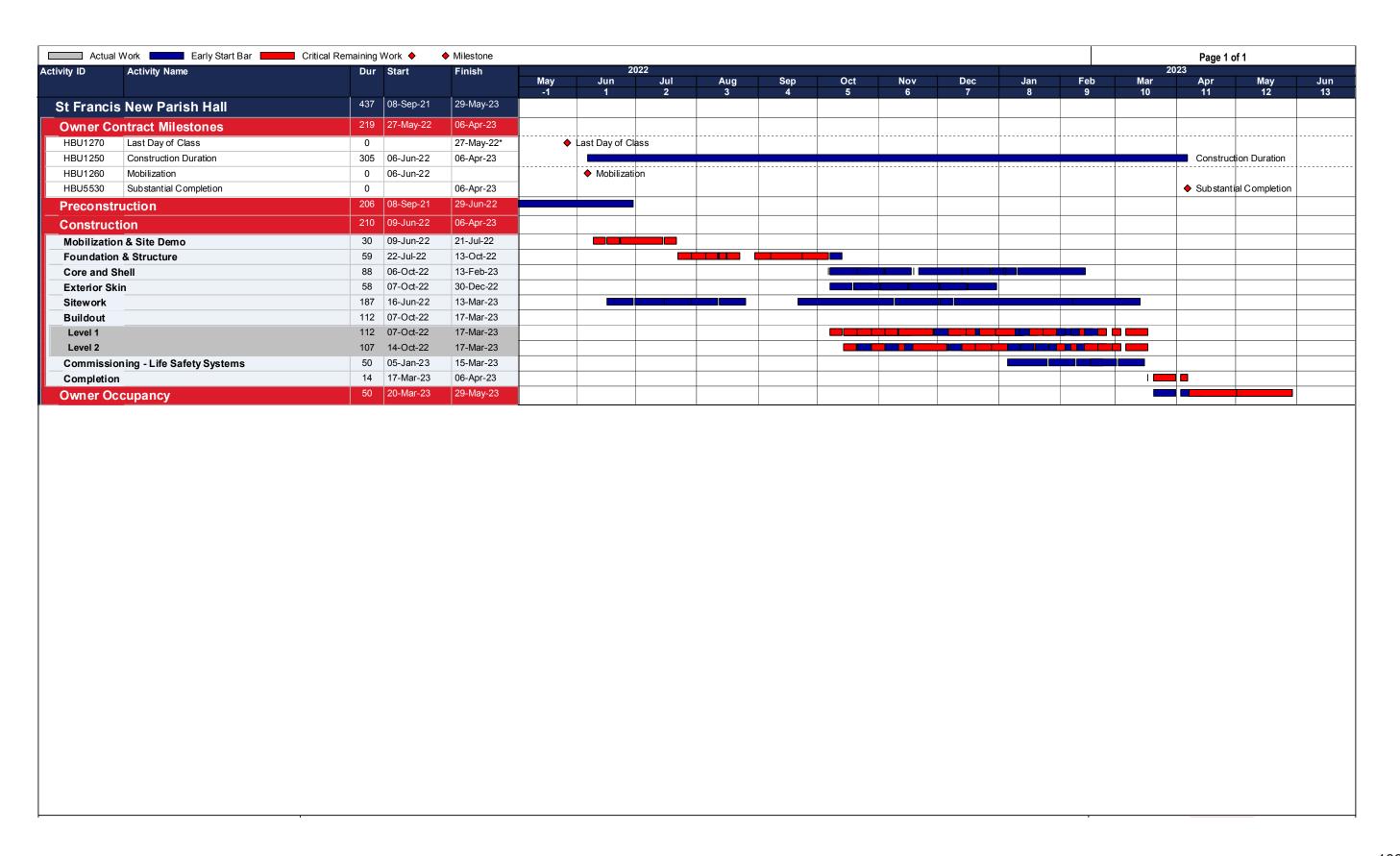
- 1. Upon a confirmed case of COVID-19, all "co-workers" shall be categorized as Tier 1, Tier 2 or Tier 3. For our purposes, "co-worker" is defined as all individuals on the affected jobsite or office location.
- Tier 1 "co-workers" are defined as those who have had Close Contact with the positive case, beginning 2 days before the individual with COVID-19 became symptomatic (or, for asymptomatic workers, 2 days prior to specimen collection) until the time of isolation. Close Contact is defined as > 15 minutes of exposure at < 6 feet
- 3. In our case and for simplicity, Tier 2 and Tier 3 "co-workers" will be all others on the affected jobsite/office.
- 4. Tier 1 "co-workers" will be required to take a viral test (PCR or Antigen.) The sample shall be collected no sooner than 72 hours removed from last Close Contact with individual with confirmed positive test. (note antibody testing is not viral testing)
- 5. Tier 1 "co-workers" will monitor symptoms and quarantine before sample is taken and until results are received
- 6. Tier 1 "co-workers" can return to work **IF** they remain asymptomatic and produce a negative test result on a sample that was taken 72 hours removed from last Close Contact with individual with confirmed positive test.
- 7. If a Tier 1 "co-worker" develops symptoms or has a positive test during the quarantine period, the "co-worker" must continue quarantine until symptoms subside and a negative viral test is achieved.
- 8. "Co-workers" in Tier 2 and Tier 3 can continue to work but must continue screening protocol.

OTHER

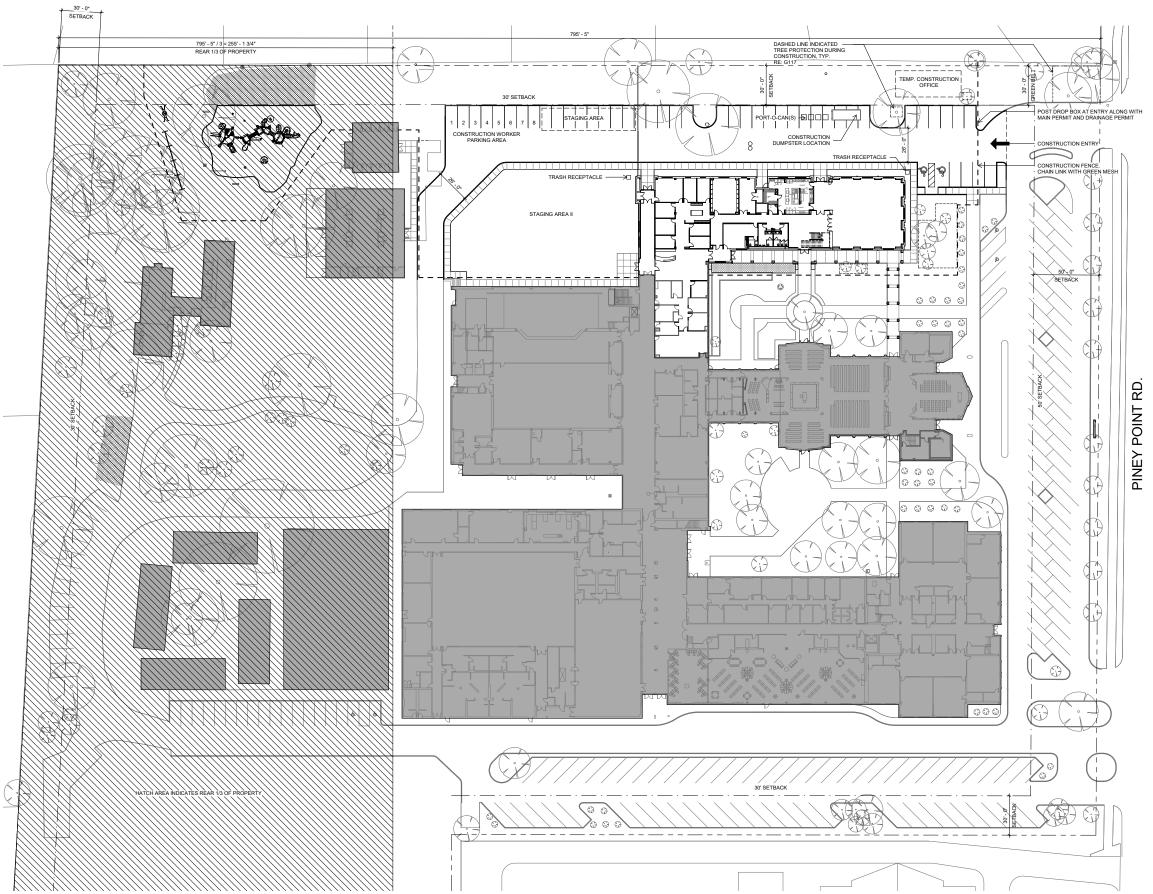
All Tellepsen has created a COVID-19 (Coronavirus) reference site on my.tellepsenconstruction.sharepoint.com/sites/HomeSite2/SitePages/COVID-19-Information.aspx). This site will maintain the most updated information on our current plan and set of resources for you.

Construction Plan and Schedule

Construction Schedule



Construction Area Plan



CITY OF PINEY POINT GENERAL NOTES

ANY GRASS WITHIN THE CITY'S RIGHT-OF-WAY WHICH IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH ST ALICILISTINE GRASS

ANY DAMAGE TO EXISTING ROADS, DRIVEWAYS, SIDEWALKS OR OTHER APPURTENANCES WITHIN THE CITIES RIGHT-OF-WAY SHALL BE SAW-CUT, REMOVED AND REPLACED WITH MATERIAL AT LEAST EQUAL TO THAT WHICH WAS DAMAGED. ALL REPLACEMENT SHALL BE PERFORMED TO CITIES STANDARDS AND WILL REQUIRE A BUILDING PERMIT ISSUED PRIOR TO STARTING THE WORK.

DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE TO ASSURE THAT NO WATER FLOWS ONTO ADJACENT PROPERTIES.

ANY AND ALL REVISIONS TO (THE NEW CONSTRUCTION HOUSE PLANS, DRAINAGE AND TREE DISPOSITIONS PLANS) MUST HAVE CITY APPROVAL PRIOR TO MAKING ANY CHANGES OR ADJUSTMENTS.

ALL ACCESSORY BUILDINGS, PLAY & SPORT COURTS, POOLS, DRIVEWAYS, SIDEWALKS, FLATWORK, FENCES, GENERATORS SHALL BE PERMITTED SEPARATELY.

ALL AREA CALCULATIONS INCLUDE ALL OF THE IMPROVEMENTS FOR THIS PROJECT.

NO WORK ALLOWED ON SUNDAYS.

TEMPORARY TREE PROTECTIONS TO REMAIN UP AT ALL TIMES UNTIL THE TREE FINAL.

TEMPORARY DRAINAGE (RE-ENFORCED FILTER FABRIC) TO REMAIN IN PLACE UNTIL THE DRAINAGE FINAL.

NO RUN OFF OF ANY KIND CAN BE PLACED OR DUMPED INTO THE STORM DRAINS.

A FINAL AS BUILT TOPO IS REQUIRED AT THE END OF THE PROJECT. A FINAL AS BUILT TOPO IS TO BE SUBMITTED AT LEAST 4 TO 6 WEEKS IN ADVANCE OF THE CLOSING OF THE PROPERTY. THE TOPO MUST BE APPROVED BY THE CITIES ENGINEERS AND MUST PASS DRAINAGE FINAL BEFORE A CERTIFICATE OF OCCUPANCY CAN AND WILL BE ISSUED.

BUILDER, ARCHITECT AND OR DESIGNER IS RESPONSIBLE FOR ANY CHANGES AS IT RELATES TO ANY NEW BUILDING CODES, CITY ZONING ORDINANCES AND AMENDMENTS AND ALL ADMINISTRATIVE PROCEDURES AND POLICY CHANGES.

PROVIDE MINUMUM TWO (2) TRASH RECEPTICAL FOR GERENAL USE BY WORKERS THROUGHT THE CONSTRUCTION AREA.

ADDRESS, EMERGENCY CONTACT, PERMITS, AND WORK HOURS TO BE POSTED AT CONSTRUCTION ENTRY.

PORT-O-CANS SHOULD BE PUT OUT OF SIGHT OR BEHIND CENDAR PLANK FENCE.

NO BUILDER SIGNAGE OF ANY KIND.

ANY AND ALL REVISIONS MUST HAVE CITY AND ARCHITECT APPROVAL BEFORE TAKING PLACE.

Hours of Construction:

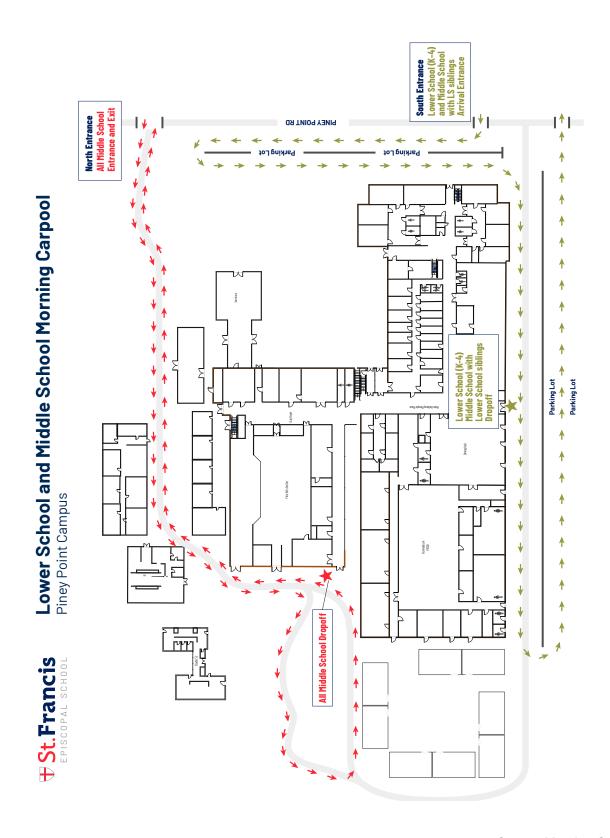
Monday - Friday 7:00am - 7:00pm

Saturday 8:00am - 6:00pm

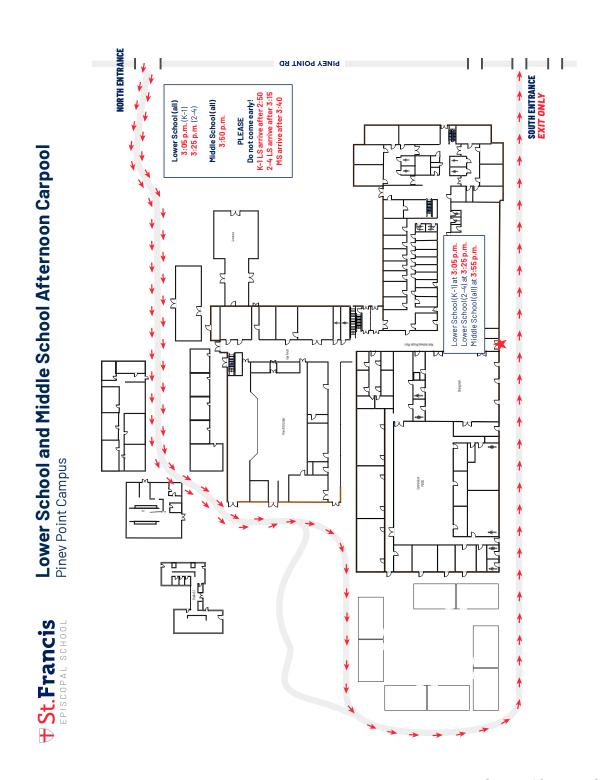
Sunday NO WORK

Vehicle Queue (Stacking) for School Drop-Off and Pick-Up

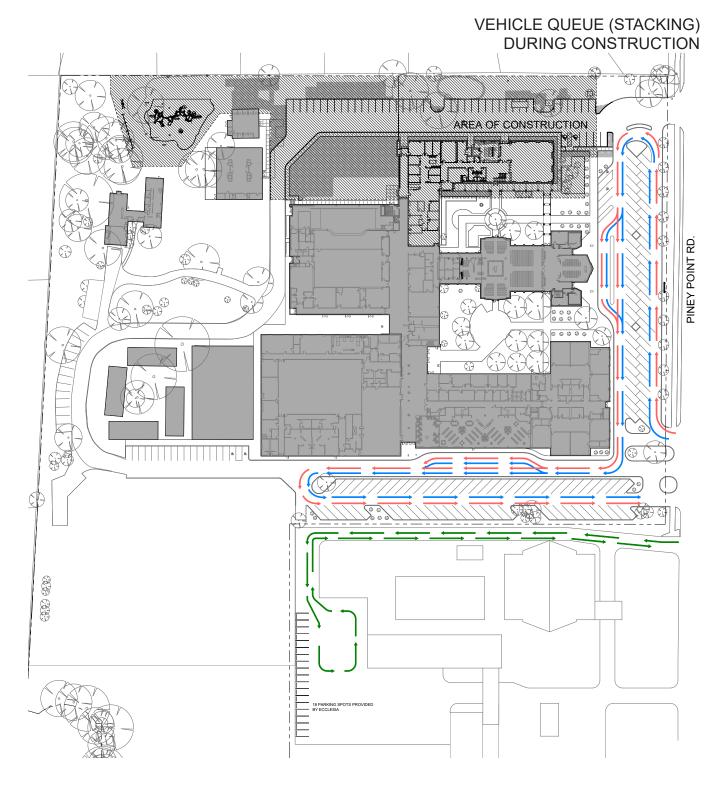
Vehicle Queue for School Drop and Pick-up



Vehicle Queue for School Drop and Pick-up



Vehicle Queue for School Drop and Pick-up



DURING CONSTRUCTION

20' used per car as a standard parking spot is 19'



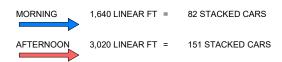
During Construction Carpool

Vehicle Queue for School Drop and Pick-up

VEHICLE QUEUE (STACKING) POST-CONSTRUCTION PINEY POINT RD.

20' used per car as a standard parking spot is 19'

POST-CONSTRUCTION



Letter to Neighbors and List of Recipients



ST. FRANCIS EPISCOPAL CHURCH

September 8, 2021

(Letter sent by both regular and certified return receipt requested to neighbors that are within 300 feet of St. Francis Episcopal Church)

Subject: Invitation to Attend a Public Hearing for a Request for a Specific Use Permit ("SUP") for the Construction of a New Parish Hall and Playground Equipment

Relocation for St. Francis Episcopal Church

Dear St. Francis Episcopal Church Neighbors,

We are pleased to invite you to the City of Piney Point Village Planning and Zoning Commission Public Hearing and meeting on Thursday, September 23, 2021, at 7:00 p.m. during which the church's application for a SUP will be presented and discussed. The City of Piney Point Village requires that a SUP be issued for churches and other places of worship. The Public Hearing and meeting will be held at St. Francis Episcopal Church, 345 Piney Point Road, in the old Parish Hall. Please see map below.



The St. Francis Episcopal Church mission was established in 1949 and two years later construction on the old Parish Hall located on Piney Point Road was completed. At 70+ years of age, this two-story Parish Hall is woefully in need of replacement. It is past being able to be effectively repaired and/or renovated due to cost, new building and safety standards and the need for more and different spaces due to changing worship customs. Also, the Playground Equipment will be relocated outside the 30 feet greenspace area.

345 PINEY POINT, HOUSTON, TX 77024 713.782.1270 <u>www.sfch.org</u>

The new Parish Hall will be built according to the latest building codes and standards, abiding by the City of Piney Point Village ordinances with special attention to drainage, greenbelts/greenspaces, setbacks, noise, impervious surface area, and tree disposition. Architecturally, the new building will match the other structures on the campus and will present a welcoming "front door" to the public. A rendering of the proposed Parish Hall is at the end of this invitation.

The packet containing the information to the Planning and Zoning Commission will be available on the City's website at http://www.cityofpineypoint.com/ beginning Wednesday, September 15, 2021, through September 23, 2021. You may also visit City of Piney Point Village City Hall, 7676 Woodway, Suite 300, Houston, TX 77063 after September 15, 2021, to review the same packet.

If you have questions, please contact Louise Richman, Member of St. Francis Episcopal Church Vestry and Treasurer at 713-301-8164 or louiserichman@sbcglobal.net. Thank you very much.

Peace and Grace,

The Rev. Stuart A. Bates

Rector

St. Francis Episcopal Church

Juant A. Batest



# on Certified Mail Receipt (only last 4 digits are different)	Owners	Surnames	Given Names	Propserty Address	ZIP Code	Distance	Distance	Distance	Distanc
	Current Owner	Current Owner	 	3 Brompton Ct	77024	 	<300	<400	<500
7928	Current Owner	Current Owner		4 Brompton Ct	77024	-	<300	<400	<500
7867	Swinbank Joseph B & Shirley	Swinbank	Joseph B & Shirley	1 Carsey Ln	77024		<300	<400	<500
8741	Whalley Lawrence G & Mary	Whalley	Lawrence G & Mary	5 Carsey Ln	77024	<200	<300	<400	<500
7935	Allen Joe B & Helen	Allen	Joe B & Helen	11522 Green Oaks Dr	77024	<200	<300	<400	<500
7850	Casid Michael & Edwina C	Casid	Michael & Edwina C	11527 Green Oaks Dr	77024	<200	<300	<400	<500
8758	Current Owner	Current Owner	THE OTHER CO. DOWNING C	11530 Green Oaks Dr	77024	<200	<300	<400	<500
7959	Tauber Richard E & Anne	Tauber	Richard E & Anne	11531 Green Oaks Dr	77024	<200	<300		-
7843	Oropeza Luis & Maria F	Oropeza	Luis & Maria F	11535 Green Oaks Dr	77024	200	<300	<400	<500
7706	Read Jeffrey	Read	Jeffrey	11502 Habersham Ln	77024	<200		<400	<500
7966	Current Owner	Current Owner	Jeiney	11503 Habersham Ln			<300	<400	<500
7836	Hellerstien Lewis J	Hellerstien	Lewis J		77024	<200	<300	<400	<500
7713	Natkin Bernard B	Natkin	Bernard B	11506 Habersham Ln	77024	<200	<300	<400	<500
7942	Garrett Fred A	Garrett		11507 Habersham Ln	77024	<200	<300	<400	<500
7829	Jamieson Michael & Jane		Fred A	11511 Habersham Ln	77024		<300	<400	<500
7720		Jamieson	Michael & Jane	11311 Jamestown Rd	77024		<300	<400	<500
	Wang Martin T & Sherry	Wang	Martin T & Sherry	9 N Cheska Ln	77024		<300	<400	<500
7911	Lu Wen H & Ho	Lu	Wen H & Ho	11 N Cheska Ln	77024		<300	<400	<500
7812	Cenatiempo Michael J & Mary	Cenatiempo	Michael J & Mary	17 N Cheska Ln	77024		<300	<400	<500
7737	Stimson Arthur E	Stimson	Arthur E	21 N Cheska Ln	77024		<300	<400	<500
7904	Ecclesia Houston	Ecclesia Houston		325 Piney Point Rd	77024	<200	<300	<400	<500
7805	Ecclesia Houston	Ecclesia Houston		325 Piney Point Rd	77024		<300	<400	<500
	St Francis Episcopal Ch	St Francis Episcopal Church		335 Piney Point Rd	77024		<300	<400	<500
7898	Sumner Estate Of Dorothy C	Sumner	Estate of Dorothy C	342 Piney Point Rd	77024	<200	<300	<400	<500
7799	Sallee Homer B & Jaleh M	Sallee	Homer B & Jaleh M	346 Piney Point Rd	77024	<200	<300	<400	<500
7751	Sallee Homer B & Jaleh M	Sallee	Homer B & Jaleh M	348 Piney Point Rd	77024		<300	<400	<500
7881	Sallee Homer B & Jaleh M	Sallee	Homer B & Jaleh M	350 Piney Point Rd	77024		<300	<400	<500
7782	Tylor Thomas A & Kristin N	Tylor	Thomas A & Kristin N	362 Piney Point Rd	77024	<200	<300	<400	<500
7768	Herminghaus Michael & Sabine P Linden	Hon Michael HerminghausSabir	ne P Linden	11506 Raintree Cir	77024	<200	<300	<400	<500
7874	Kemple Matthew J & Deborah C	Kemple	Matthew J & Deborah C	11510 Raintree Cir	77024	<200	<300	<400	<500
7775	Laird Marc & Ann	Laird	Marc & Ann	11511 Raintree Cir	77024		<300	<400	<500
7980	Owen Thomas H Jr & Jill G	Owen	Thomas H Jr & Jill G	11517 Raintree Cir	77024		<300	<400	<500
8611	Coben Ron & Leanne	Coben	Ron & Leanne	11520 Raintree Cir	77024	<200	<300	<400	<500
8697	Mancilla Alberto R	Mancilla	Alberto R	11526 Raintree Cir	77024	<200	<300	<400	<500
7973	Mcculloch James L & Susan A	McCulloch	James L & Susan A	11529 Raintree Cir	77024	1200	<300	<400	<500
	Frachtman Richard J & Anne	Frachtman	Richard J & Anne	11530 Raintree Cir	77024	<200	<300	<400	<500
	800 Builders Llc	800 Builders LLC	Telemate 7 to 7 time	11537 Raintree Cir	77024	200	<300		
	Chiu Carol Sue	Chiu	Carol Sue					<400	<500
	Dash Timothy & Rachel	Dash		11540 Raintree Cir	77024	400	<300	<400	<500
1800000	Dunn Deirdre H	Dunn	Timothy & Rachel Deirdre H	1 S Cheska Ln	77024	<200		<400	<500
	Boquist Eric A & Amy L			5 S Cheska Ln	77024	<200	<300	<400	<500
	Boston Kevin & Lindsey	Boquist Boston	Eric A & Amy L	6 S Cheska Ln	77024	<200	<300	<400	<500
	Williams John B Jr & Lynne		Kevin & Lindsey	9 S Cheska Ln	77024	<200	<300	<400	<500
	· · · · · · · · · · · · · · · · · · ·	Williams	John B Jr & Lynne	14 S Cheska Ln	77024	<200	<300	<400	<500
	Bamberger Richard E	Bamberger	Richard E	15 S Cheska Ln	77024	<200	<300	<400	<500
	Grob Nancy S	Grob	Nancy S	17 S Cheska Ln	77024	<200	<300	<400	<500
	Current Owner	Current Owner		18 S Cheska Ln	77024	<200	<300	<400	<500
	Kollenberg C Henry & Christine J	Kollenberg		21 S Cheska Ln	77024	<200	<300	<400	<500
	Daley Thomas C	Daley	Thomas C	22 S Cheska Ln	77024	<200	<300	<400	<500
	Nystrom Richard & Shannon	Nystrom	Richard & Shannon	25 S Cheska Ln	77024	<200	<300	<400	<500
	Fordyce Doug & Melissa	Fordyce	Doug & Melissa	26 S Cheska Ln	77024	<200	<300	<400	<500
	Barclay Josephine	Barclay	Josephine	29 S Cheska Ln	77024	<200	⊲300	<400	<500
	Sorkin Tatiana A	Sorkin	Tatiana A	30 S Cheska Ln	77024	<200	<300	<400	<500
8604	Barbosa Filipe & Leigh	Barbosa	Filipe & Leigh	33 S Cheska Ln	77024	<200	<300	<400	<500
8680	Holland John & Laura	Holland	John & Laura	34 S Cheska Ln	77024		<300	<400	<500
8734	Current Owner	Current Owner		11318 Williamsburg Dr	77024			<400	<500

USPS TRACKING#



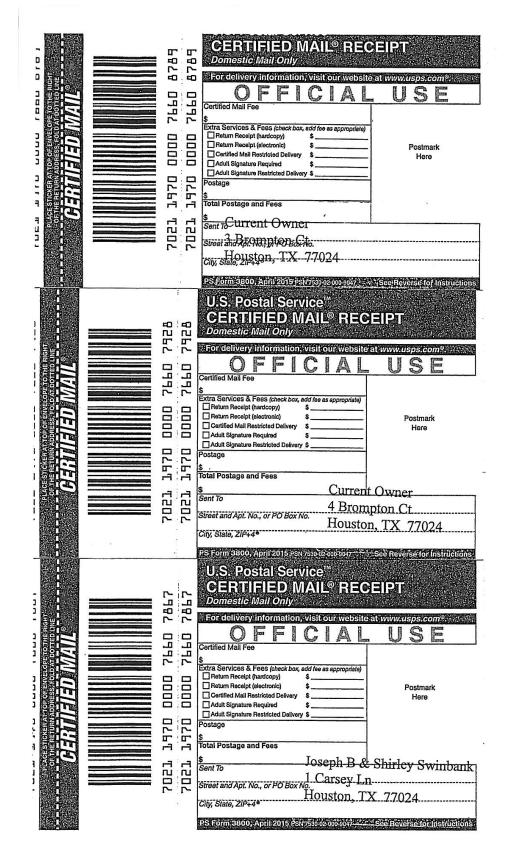
9590 9402 6533 1028 4051 22

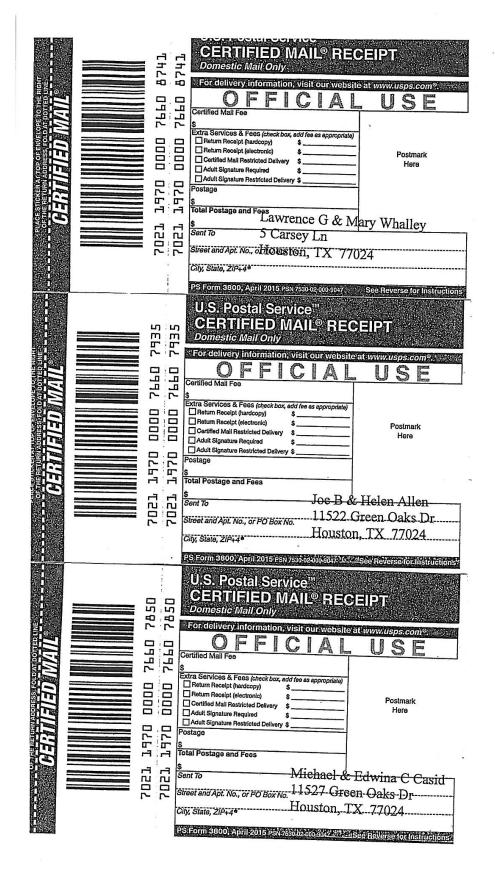
First-Class Mail Postage & Fees Paid USPS Permit No. G-10

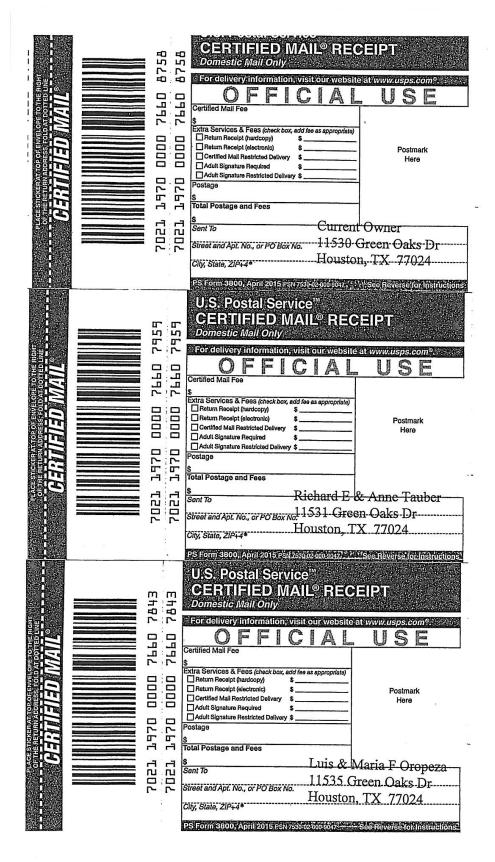
United States Postal Service

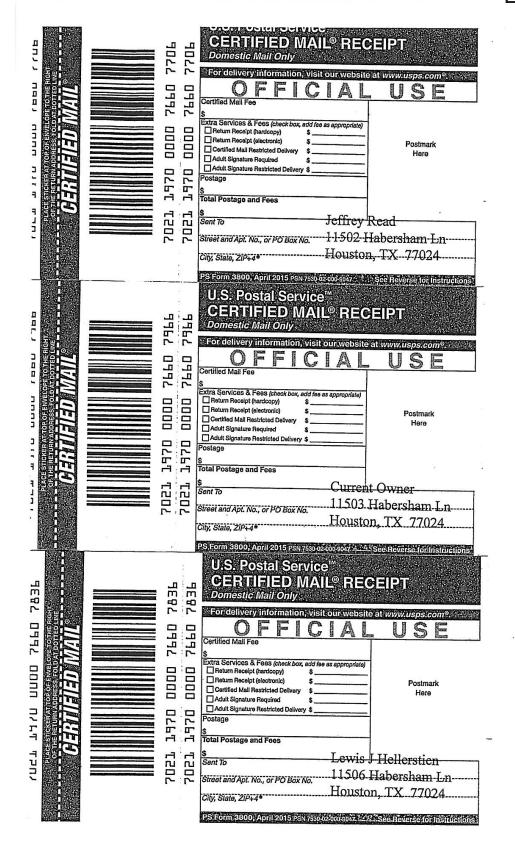
Sender: Please print your name, address, and ZIP+4[®] in this box

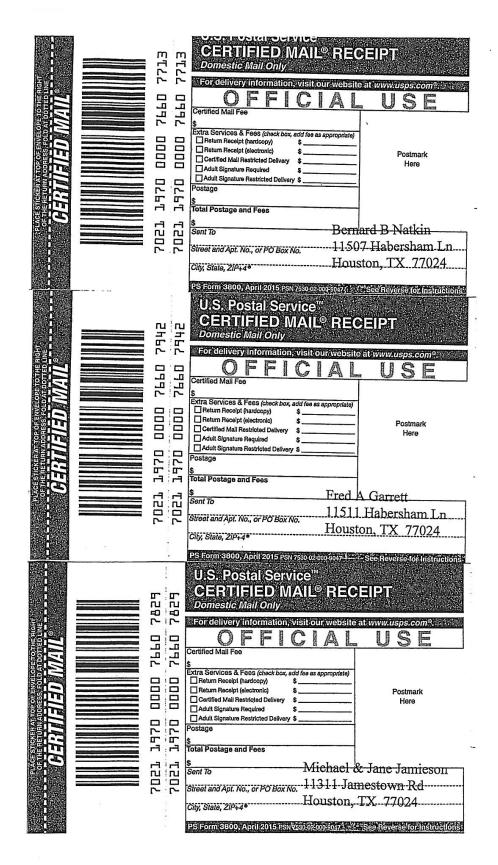
Annette Arriaga SFEC - SUP Mtg - 9-23-21 City of Piney Point Village 7676 Woodway, Ste 300 Houston, TX 77063-1523

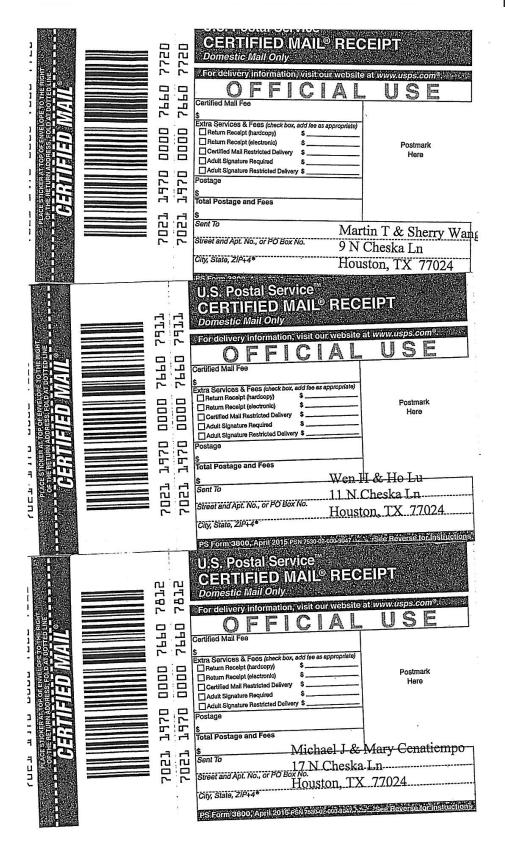


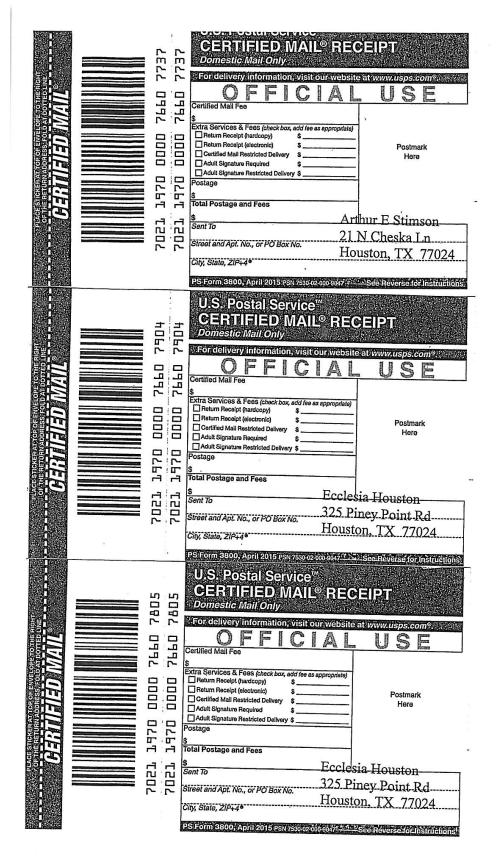


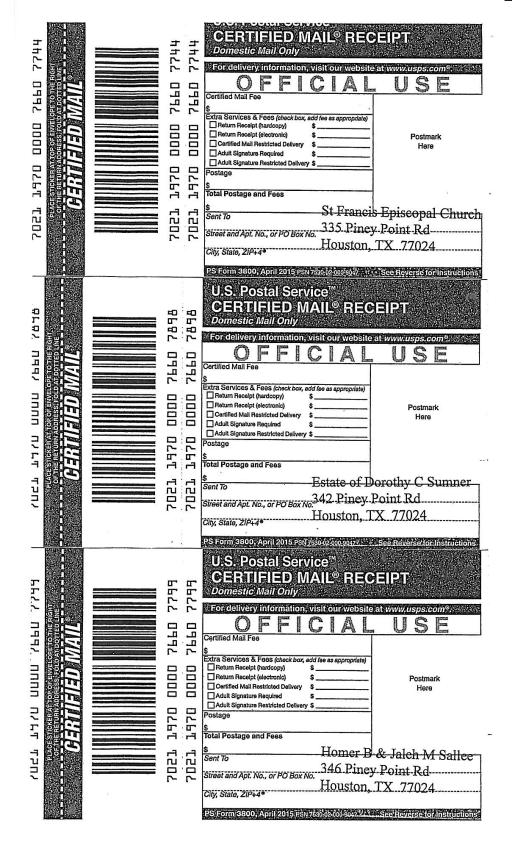


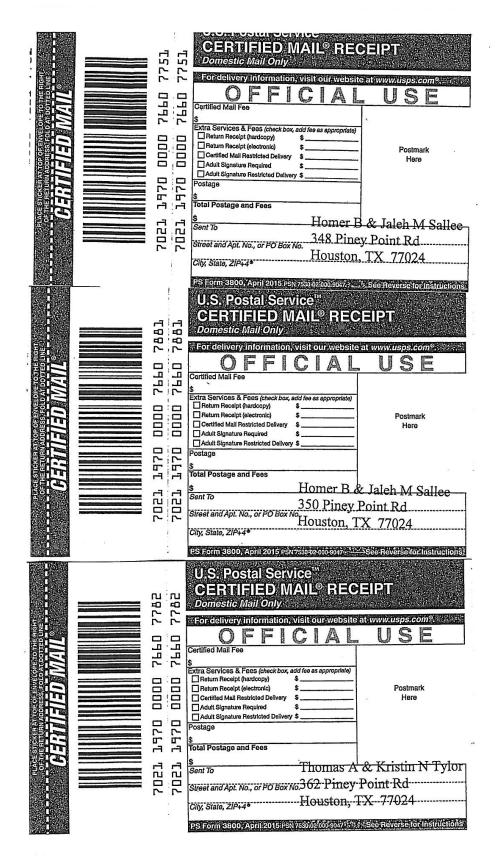


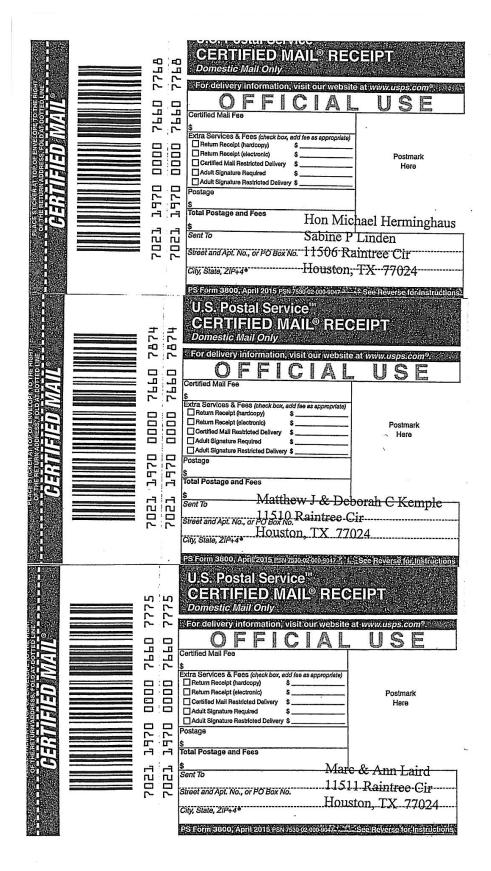


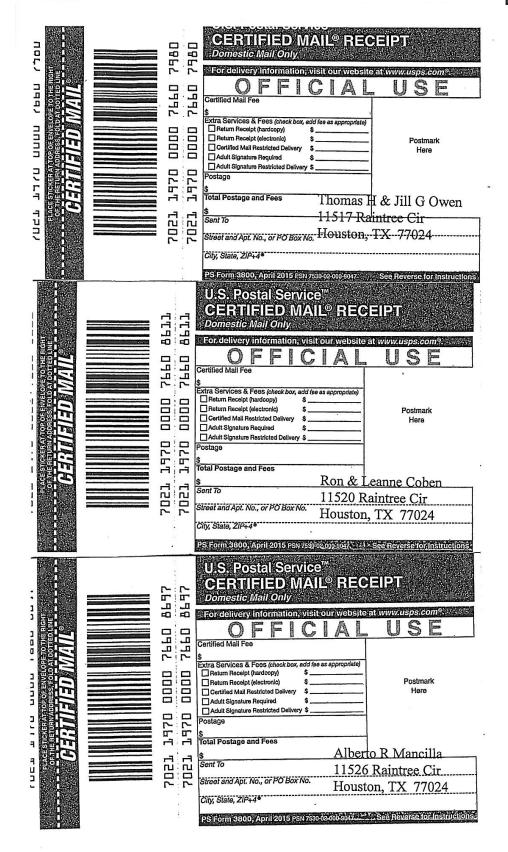


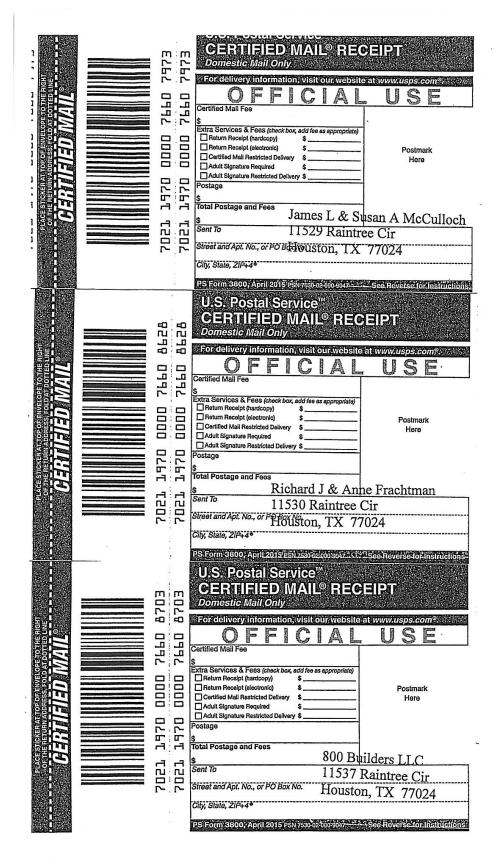


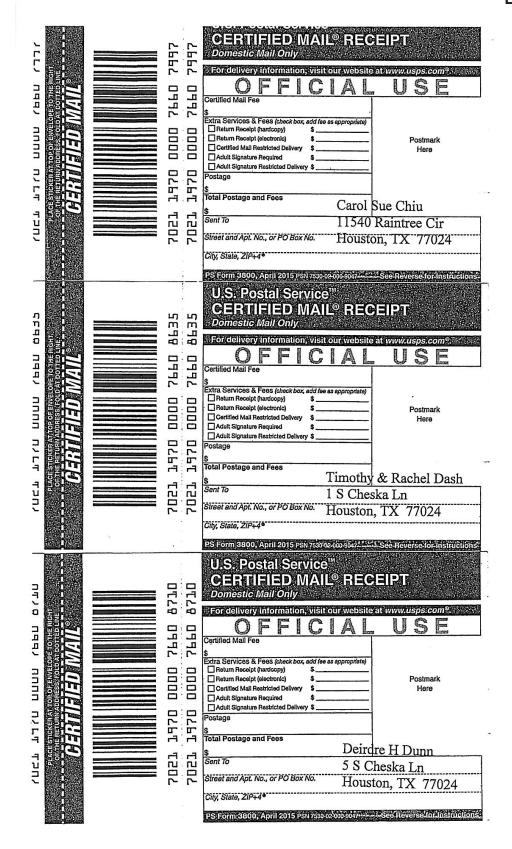


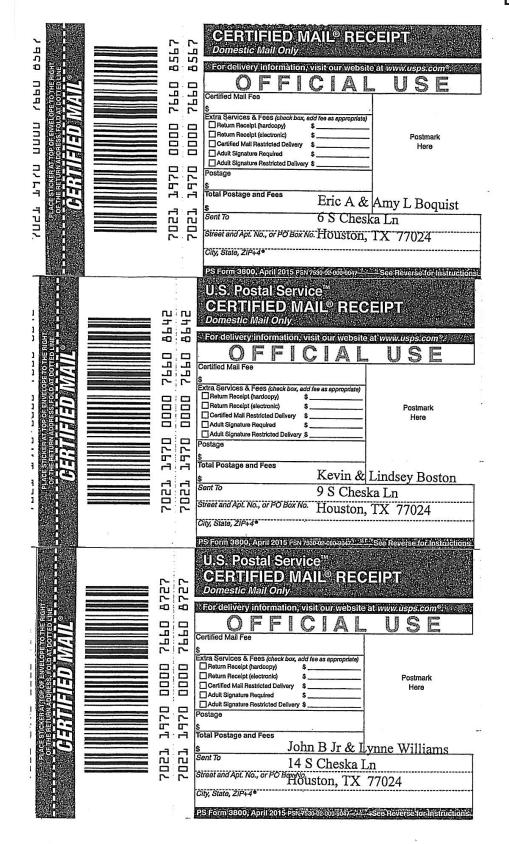


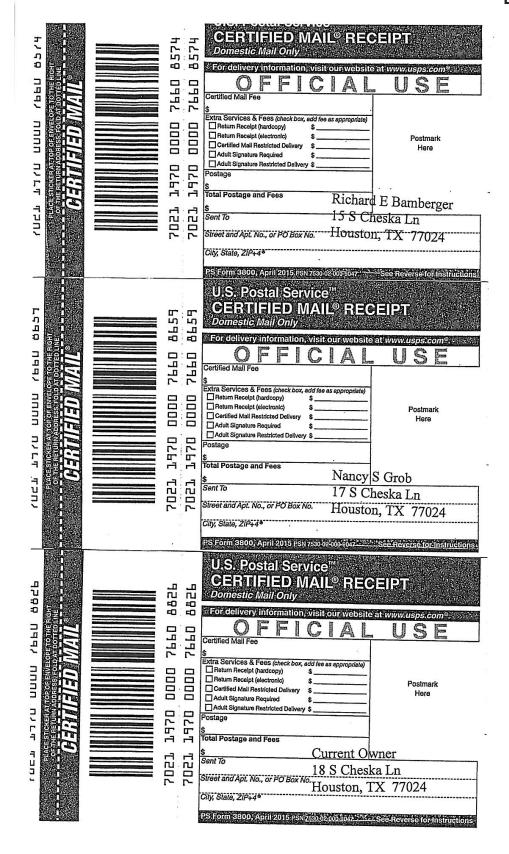


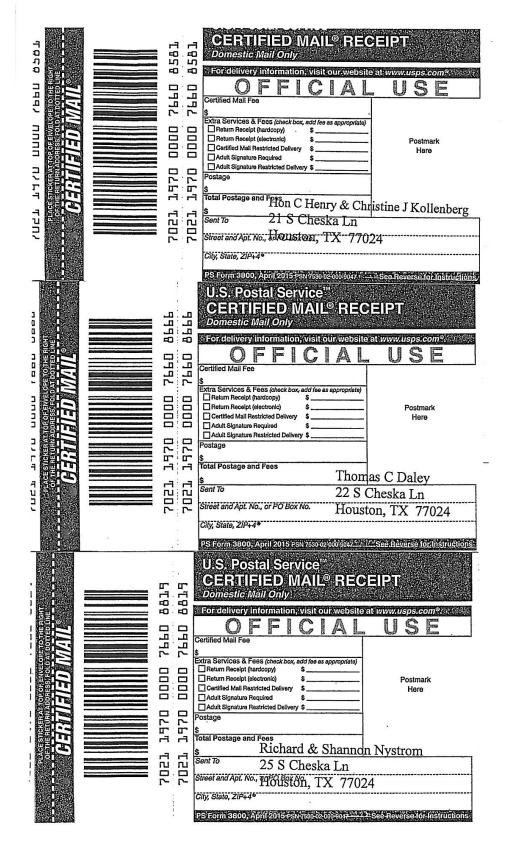


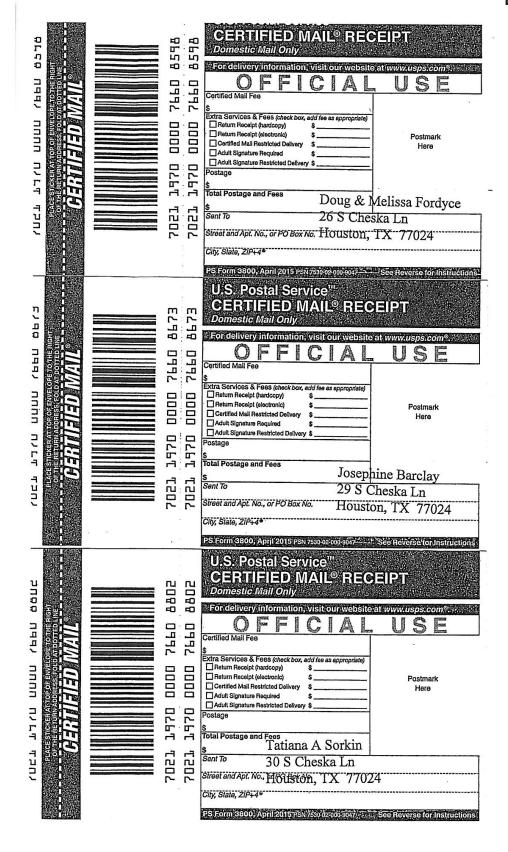


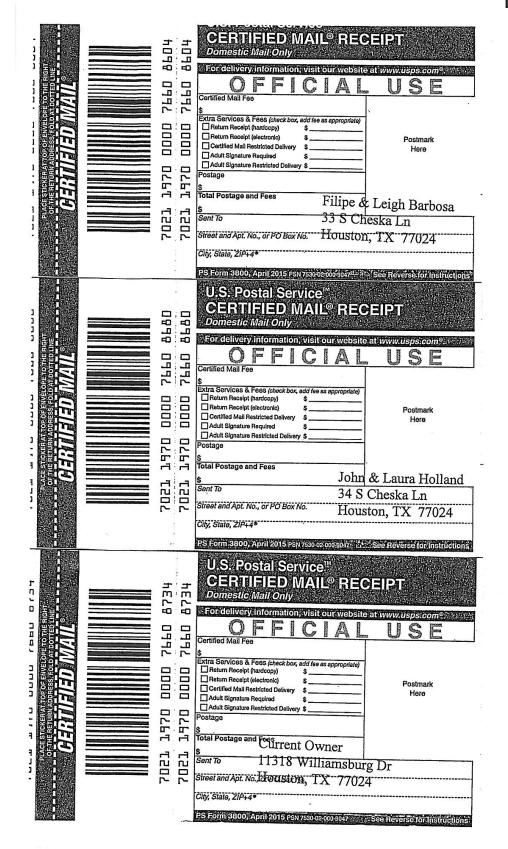












Project Directory

St Francis Episcopal Church – Addition

OWNER			
St. Francis Episcopal Church		713.782.1270	345 Piney Point Rd. Houston, TX 77024
George Jumonville	cell	713.412.6731	,
Chairman Building Committee			
grjville@sbcglobal.net			
Louise Richman	church	713.782.1270	
Main Contact, SFEC Treasurer			
LouiseRichman@sbcglobal.net			
Curt Wissmiller	cell	713.458.6482	
Director of Facilities	church	713.782.1270	
cwissmiller@stfrancishouston.org			
ARCHITECT			
Merriman Holt Powell Architects		713.522.2885	3900 Essex, Suite 200
	fax	713.524.4151	Houston, TX 77027
Colin Gallatin	cell	713.822.5884	
cgallatin@mhparch.com			
Bill Merriman	cell	713.859.9591	
bmerriman@mhparch.com			
Michelle Carter	cell	713.540.3191	
mcarter@mhparch.com			
CIVIL ENGINEER			
Andrew Lonnie Sikes, Inc.		281.561.8118	1002 East Ave.
	fax	281.561.8118	Katy, TX 77493
Lonnie Sikes	cell	281.743.1988	
lonnie.sikes@sikesengineering.com	Cell	201.745.1900	
ionnic.sikes@sikesengiricering.com			
STRUCTURAL ENGINEER			
CJG Engineers	•	713.780.3345	3200 Wilcrest Dr, Suite 305
	fax	713.780.3712	Houston, TX 77042
Britt Gardner	cell	713.416.2628	
bgardner@cjgengineers.com	ccii	, 13.410.2020	
The same C significant or other in			

St Francis Episcopal Church – Addition

MECHANICAL, ELECTRICAL, & PLUMBI Shah Smith		713.780.7563	2825 Wilcrest Dr, Suite 350
Juan Junti	fax	713.780.9209	Houston, TX 77042
Mark Janneck	work	713.780.7563	
Project Manager		, 101, 001, 000	
mjanneck@shahsmith.com			
-			
Stephen Redding	cell	713.822.3224	
sredding@shahsmith.com			
GENERAL CONTRACTOR			
Tellepsen		281.447.8100	777 Benmar Dr. #400
renepsen		201.777.0100	Houston, TX 77060
Kyle Mahnke		281.272.4954	
Project Manager			
kmahnke@tellepsen.com			
-			
Tellef Tellepsen	cell	281.703.5241	
htt3@tellepsen.com			
FOOD SERVICE CONSULTANT			
FCA Design		281.520.3431	11200 Broadway, Suite 2362
			Pearland, TX 77584
Chris Clements			
chrisc@fcadesign.com			
Randy Reich			
randyr@fcadesign.com			
URBAN FORESTER		204 204 2222	2404 D :::
C.N. Koehl Urban Forestry, Inc.		281.391.0022	3401 Brittmore Rd.
Conin Kanala	11	712 200 0040	Houston, TX 77043
Craig Koehl	cell	713.299.8818	
ckoehl@koehlurbanforestry.com			
Landscape			
Yellowstone Landscape		713.462.8552	10892 Shadow Wood Drive
			Houston, TX 77043
Constant and a second			

Greg Marteeny

gmarteeny@yellowstonelandscape.com

St Francis Episcopal Church – Addition

PLANS / DOCUMENTS			
Thomas Reprographics	fax	713.621.0022 713.621.2537	4235 Richmond Ave Houston, TX 77027
	IdX	/15.021.255/	Houston, IX //OZ/
CENTERPOINT ENERGY			
Cole Stevenson	cell	713.945.4530	3401 Brittmore Rd.
Cole.stevenson@CenterPointEnergy.com			Houston, TX 77043
FIRE SUPPRESSION			
Kauffman Co.		713.937.4144	13225 FM 529, Suite A
Conor Kouffman	المم	022 267 2005	Houston, TX 77041
Conor Kauffman conor@kauffmanco.net	cell	832.367.2885	
VIII ACES ALITHODITY			
VILLAGES AUTHORITY Piney Point Village – Director of Planning			7676 Woodway Suite 300
Annette Arriaga		713.782.1757	Houston, TX 77063
bldgofficial@pineypt.org	fax	713.782.3178	110031011, 17, 7, 7003
Piney Point Village – Plan Examiner	cell	713.898.6502	7676 Woodway Suite 300
Jason Bienek jason.pineypoint@gmail.com			Houston, TX 77063
ason.pineypoint@gmail.com			
Piney Point Village – City Urban Forester		713.782.0271	7676 Woodway Suite 300
Cary Moran			Houston, TX 77063
cary@pineypt.org			
Memorial Village Water Authority		713.465.8318	8955 Gaylord Dr.
Mike Montgomery		713.403.8318	Houston, TX 77024
mike@mvwa.org			
Fire Marshal		713.468.7941	901 Corbindale Rd.
Rusty Kattner			Houston, TX 77024
kattner@villagefire.org			
City Engineer – HDR Engineering		713.622.9264	
Joe Moore			
Plumbing and Mechanical Engineer		713.480.6734	
Bob Baldwin			