

**CITY OF TEMPE
DEVELOPMENT REVIEW COMMISSION**

**Meeting Date: 05/13/2014
Agenda Item: 3**

ACTION: Request for a time extension for a Use Permit for tandem parking and a Development Plan Review consisting of a new 17-story senior housing facility for (VILLAS AT SOUTH BANK), located at 1122 East Vista Del Lago Drive. The applicant is Rio Salado Development Partners, LLC.

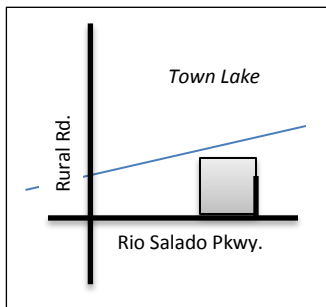
FISCAL IMPACT: There is no fiscal impact on City funds.

RECOMMENDATION: Staff – Approval, subject to conditions

BACKGROUND INFORMATION: VILLAS AT SOUTH BANK (PL120046), received approval by City Council for a Planned Area Development Overlay on June 14, 2012, for 262 units within a 17-story senior living facility (including assisted living and memory care components) and a 2-story commercial building, totaling 367,896 sf. in building area on 2.23 net acres, located at 1122 East Vista Del Lago Drive in the MU-4 (PAD), Mixed-Use High Density District with a Planned Area Development Overlay and the Rio Salado Overlay District.

The applicant is seeking a two-year time extension for the use permit and development review, approved by the Development Review Commission, set to expire on May 8, 2014. The request includes the following:

- ZUP14048 (Previous ZUP12025) Use Permit to allow tandem parking.
- DPR14083 (Previous DPR12032) Development Plan Review including site plan, building elevations, and landscape plan



Gross/Net site area	2.226 acres
Total Building area	367,896 sf.
Total Dwelling Units	262 units (118 du/ac)
Lot Coverage	43% (No Standard set)
Building Height	211'-0" ft (No Standard set)
Building Setbacks	9' front, 25' south street side, 1' west side, 15'-8" north side, 20' east side (No Standard set)
Landscape area	16% (No Standard set)
Vehicle Parking	187 spaces (458 minimum required)
Bicycle Parking	53 spaces (182 minimum required)
Gross/Net site area	2.226 acres
Total Building area	367,896 sf.

ATTACHMENTS: Development Project File

STAFF CONTACT(S): Ryan Levesque, Senior Planner (480) 858-2393

Department Director: Dave Nakagawara, Community Development Director
 Legal review by: N/A
 Prepared by: Ryan Levesque, Senior Planner

COMMENTS:

This site is located just east of Rural Road at the northeast corner of Rio Salado Parkway and Vista Del Lago Drive. The property is directly adjacent to the Tempe Town Lake to the north and neighbored by the ASU Karsten Golf Course to the south. All other surrounding properties are currently vacant.

In 2007, the “Pier 202” (now named South Bank) project proposed a master plan development consisting of nine (9) new buildings ranging from 187 to 310 feet in height for commercial space, a 285 room hotel and 1,484 residential units, all on 27 acres. The developer processed a Planned Area Development Overlay that established development standards for five (5) of the nine (9) total lots. Lot 3, consisting of this request, was excluded from the original phase of development.

The Villas at South Bank consists of the following:

1. Use Permit to allow tandem parking
2. Development Plan Review which includes: a 17-story senior living facility (with independent care, assisted living and memory care components), two levels of underground parking and a 2-story commercial building, all totaling 367,896 sf. in building area.

PUBLIC INPUT

A neighborhood meeting is not required for this request. The site is more than 300 feet from the nearest residential use. Staff received an inquiry from the Phoenix Aviation Department regarding review of the 17-story project related to Phoenix Sky Harbor’s engine out procedures. Phoenix staff has reported no apparent impact to aviation aircraft at this time. This project will be required to file for Federal Aviation Administration’s Hazard Determination for tall buildings. Other inquiries at this time have only been for commercial interests.

PROJECT ANALYSIS

PLANNED AREA DEVELOPMENT

Along with a designation of mixed-use zoning, an Amended Planned Area Development Overlay (PAD) established the desired standards within the MU-4 district. Below is a list of district standards and the other South Bank lots approved development standards for this PAD.

South Bank – Planned Area Development Overlay								
Standards	Lot:	Proposed 3	1	9	6	5	4	Total
Lot Acreage		2.23	3.10	3.60	3.34	2.78	1.20	16.43
Residential Density (# of dwelling units)		262	105	384	302	-	79	1,129
Building Height [Exceptions, see Section 4-205(A)]								
Building Height Maximum		211 ft.	187 ft.	310 ft.	292 ft.	252 ft.	234 ft.	
Maximum Lot Coverage (% of net site area)		43%	72%	69%	70%	61%	43%	
Minimum Landscape Area (% of net site area)		16%	28%	31%	29%	39%	55%	
Setbacks (feet) [Exceptions, see Section 4-205(B)]								
Front Parking		9 ft. 20 ft.						
Street Side (South) Parking		25 ft. 20 ft.	31 ft.	50 ft.	22 ft.	20 ft.	23 ft.	

South Bank – Planned Area Development Overlay

Standards	Lot:	Proposed 3	1	9	6	5	4	Total
Side (west)		1 ft.	15 ft.	26 ft.	5 ft.	30 ft.	44 ft.	
Side (east)		9 ft.	31 ft.	16 ft.	90 ft.	18 ft.	23 ft.	
Side (north)		16 ft.	31 ft.	23 ft.	31 ft.	34 ft.	22 ft.	
Vehicle Parking								
Required:		458	1,000	915	647	806	138	4,064
Parking per Analysis:		120	1,082	891	652	433	146	3,391
Provided:		(187)						
Bicycle Parking								
Required:		182						
Parking per Analysis:		35	-	-	-	-	-	
Provided:		(53)						

The PAD for Lot 3 – The Villas, requests a maximum density of 118 dwelling units per acre, or a total of 262 units for a senior housing facility. This density is consistent with the overall PAD and projected density for this development area. The units provided are broken down into the following categories:

Elder Care (Memory Care): 24 units (beds)

Elder Care (Assisted Living): 65 units (1 bed units)

Multi-Family (Independent Living):

Studio 25 units

1 Bedroom 75 units

2 Bedroom 69 units

Guest Unit (1 bedroom) 4 units

The Villas requests a maximum building height of 211 ft. This height will accommodate the 17-story senior housing facility as well as unique architectural features on the building. The actual proposed height of the building roof at this time is approximately 189 feet above level 1 finished floor. The difference in the maximum building height accommodates the Zoning and Development Code's height measurement requirement from grade at the midpoint top of sidewalk elevation, additional height for architectural features, and any additional appurtenances that may be required at construction. The proposed height is consistent with the previously approved range of building heights approved for the overall PAD (ranging from 187 ft. – 310 ft.)

The proposed building setbacks are primarily dictated by the existing easements for public utilities, sidewalk easements for public access, and a proposed fire access lane along the eastern property line.

City of Tempe Required Parking Standards

USE	Vehicle Parking Minimums	Vehicle Ratios	Total	Minimum Parking Spaces Required	Bike Ratios	Minimum Bike Spaces Required
Nursing Home/Elder Care (Memory Care)	0.5	Per Beds	24	12.00	0.05	1.20
Nursing Home/Elder Care (Assisted Living)	0.5	Per Beds	65	32.50	0.05	3.25
Studio Bedroom (Independent Living)	1	Per Unit	25	25.00	0.75	18.75
Residential Multi-Family 1 Bedroom (Independent Living)	1.5	Per Unit	75	112.50	0.75	56.25
Residential Multi-Family 2 Bedrooms (Independent Living)	2	Per Unit	69	138.00	0.75	51.75
Guest units (1 bedroom)	1.5	per Unit	4	6.00	0.75	3.00
Guest Parking (All General Multi-Family units)	0.2	Per Unit	173	34.60	0.20	34.60
Financial Institution	1	300	1,400	4.67	1500	0.93
Indoor Retail (dry cleaners)	1	300	700	2.33	7500	0.09
Service (Spa)	1	300	3,000	10.00	7500	0.40
Indoor Restaurant (includes main restaurant and bagel shop)	1	75	5,180	69.07	500	10.36
Outside Restaurant (includes outside portion of main restaurant)*	1	150	2,000	11.33	2000	1.00
*no parking first 300 square feet			Total	458		182

Proposed Parking Standards for Villas at Southbank

USE	Vehicle Parking Minimums	Vehicle Ratios	Total	Minimum Parking Spaces Required	Bike Ratios	Minimum Bike Spaces Required
Nursing Home/Elder Care (Memory Care)	0.17	Per Beds	24	4.08	0.05	1.20
Nursing Home/Elder Care (Assisted Living)	0.17	Per Beds	65	11.05	0.05	3.25
Studio Bedroom (Independent Living)	0.24	Per Unit	25	6.00	0.05	1.25
Residential Multi-Family 1 Bedroom (Independent Living)	0.24	Per Unit	75	18.00	0.05	3.75
Residential Multi-Family 2 Bedrooms (Independent Living)	0.24	Per Unit	69	16.56	0.05	3.45
Guest units (1 bedroom)	0.24	per Unit	4	0.96	0.05	0.20
Guest Parking (All General Multi-Family units)	0	Per Unit	173	0.00	0.00	0.00
Financial Institution	1	700	1,400	2.00	1500	0.93
Indoor Retail (dry cleaners)	1	700	700	1.00	7500	0.09
Service (Spa)	1	500	3,000	6.00	7500	0.40
Indoor Restaurant (includes main restaurant and bagel shop)	1	137	6,150	44.89	500	12.30
Indoor Restaurant (includes donut/bagel shop)	1	137	1,030	7.52	500	2.06
Outside Restaurant (includes outside portion of main restaurant)*	1	NS	2,000	0.00	0	0.00
*no parking first 300 square feet			Total	118		29

The above parking charts provide a breakdown of the minimum required vehicle and bicycle parking requirements within the Zoning and Development and the proposed parking standards based on the professional parking analysis provided by the applicant. The proposed study recommends the minimum vehicle parking from 458 to 103 spaces (187 spaces provided) and the minimum bicycle parking from 182 to 25 spaces (53 spaces provided). This analysis took into consideration that the base ratios for parking requirements determine a set minimum amount of parking for an individual land use for a maximum peak expected demand. The Traffic Engineer utilized nationally accepted guidelines from the Institute of Transportation Engineers (ITE), *Parking Generation 4th Edition, 2010* and the American Planning Association (APA) *Parking Standards, 2002*. Then a shared parking ratio reduction was applied and analyzed the peak demand for each use. The results of the study determined that a surplus of parking would be provided with 187 vehicle parking spaces.

USE PERMIT

The proposed development requests approval of a use permit to allow tandem parking as part of the required parking for the development. The project proposes 75 tandem parking spaces located on second below grade level. The tandem parking, including other standard parking spaces located on the second floor, are intended to be managed by a valet system (126 total parking spaces on B2), with drop-off available in the first level parking garage. This area is proposed to be gated for access control and is primarily intended for residents and their guests. The tandem parking design can function properly as long as there is a 24-hour management service to assist in accessing resident vehicles or for other visitors.

Section 6-308 E Approval criteria for Use Permit:

1. The manner of conduct and the building for the proposed use will not be detrimental to persons residing or working in the vicinity, to adjacent property, to the neighborhood, or to the public welfare in general, and that the use will be in full conformity to any conditions, requirement or standards prescribed therefore by this code. *Providing a condition of approval that 24-hour valet access to the tandem parking spaces.*
2. Any significant increase in vehicular or pedestrian traffic. *The traffic generated by the use and tandem parking will actually result in a decrease in the overall expected traffic. The total available parking is reduced and a majority of the parking spaces are valet managed resulting in reduced trips when vehicles are not heavily used..*
3. Nuisance arising from the emission of odor, dust, gas, noise, vibration, smoke, heat or glare at a level exceeding that of ambient conditions. *The use will not generate a nuisance.*
4. Contribution to the deterioration of the neighborhood or to the downgrading of property values, the proposed use is not in conflict with the goals objectives or policies for rehabilitation, redevelopment or conservation as set forth in the city's adopted plans or General Plan. *The request does not conflict with the goals and objectives of the city's adopted plans or the General Plan.*
5. Compatibility with existing surrounding structures and uses. *The use of tandem parking is compatible with a commercially operated parking system. Other developments with South Bank also have received approval for tandem parking use.*
6. Adequate control of disruptive behavior both inside and outside the premises which may create a nuisance to the surrounding area or general public. *There is no apparent nuisance to the surrounding area or public.*

DEVELOPMENT PLAN REVIEW

The Villas at South Bank provides a unique mixed-use development consisting senior housing residential with essential commercial and restaurant services for the residents. The first proposed development plan of the nine lots at South Bank (formerly Pier 202), The Villas brings to life the master plan vision of a high rise project with unique forms of architecture capture scenic views and access along the Tempe Town Lake.

Site Plan

The Villas is accessed by a subterranean garage access with two levels of underground parking. The project also incorporates a drop-off turn around designed to address the unique shuttle and shipping services. The lower level garage elevation is designated as a valet-managed parking area within a secured parking location. Along with the primary use of senior housing and its on-site amenities, the project also provides space proposed for a bank, dry cleaners and within a separate two-story building, a publicly accessible restaurant and spa facility.

Building Elevations

The elevations provide a variety of natural feel of color stone, aggregates and a modern blend of metal building panels. The

Landscape Plan

The proposed landscape plans, consistent with the original streetscape plan, will have a dedicated landscape strip with street trees along the curb edge, and within the drop-off area, along the inside edge providing a separation. The landscape palette as proposed is compatible with the Sonoran desert environment and provides a good mix of lower-water use plants that accentuate the hardscape elements of the plaza and private courtyards. Along the south side of the building is a proposed dog run area, which will have synthetic turf. This material is acceptable at this location as it is not a main feature visible from the street and is intended for private use for the residents. Staff recommends approval of the landscape and hardscape plans, subject to the conditions of approval.

Section 6-306 D Approval criteria for Development Plan Review

1. Placement, form, and articulation of buildings and structures provide variety in the streetscape; *The project has a well-articulated building street frontage with define elements for the ground floor business and resident access.*
2. Building design and orientation, together with landscape, combine to mitigate heat gain/retention while providing shade for energy conservation and human comfort; *The building is designed with solar heat gain in mind. The building materials are modified from the south than from the north, providing reduced glazing and greater shade elements.*
3. Materials are of a superior quality, providing detail appropriate with their location and function while complementing the surroundings; *The materials are of a superior quality. The details of the building depict an artfully designed project that utilizes contrasting material elements and colors.*
4. Buildings, structures, and landscape elements are appropriately scaled, relative to the site and surroundings; *This is the first development request in the location south of the Town Lake. The original master plan for this area had taken in to consideration the proposed scale and surroundings for this development.*
5. Large building masses are sufficiently articulated so as to relieve monotony and create a sense of movement, resulting in a well-defined base and top, featuring an enhanced pedestrian experience at and near street level; *The building design provides a pedestrian level street presence, articulations throughout the building and unique roof top elements.*
6. Building facades provide architectural detail and interest overall with visibility at street level (in particular, special treatment of windows, entries and walkways with particular attention to proportionality, scale, materials, rhythm, etc.) while responding to varying climatic and contextual conditions; *Both the high-rise and two-story buildings provide a different design vantage at each elevation that defines the context and special treatment of scale and rhythm for the building.*
7. Plans take into account pleasant and convenient access to multi-modal transportation options and support the potential for transit patronage; *The site is accessible to both vehicles, is walkable and accessible to the Tempe Town Lake and its multi-modal path, and is just east of a transit shelter stop.*
8. Vehicular circulation is designed to minimize conflicts with pedestrian access and circulation, and with surrounding residential uses; *The applicant has worked with staff to enhance the public sidewalk located within a sidewalk easement to further define the pathway from the vehicular designated zones. Staff conditions address this criterion.*
9. Plans appropriately integrate *Crime Prevention Through Environmental Design* principles such as territoriality, natural surveillance, access control, activity support, and maintenance; *The development will comply with crime prevention design principles*
10. Landscape accents and provides delineation from parking, buildings, driveways and pathways; *Landscape provides accents throughout the project site.*
11. Signs have design, scale, proportion, location and color compatible with the design, colors, orientation and materials of the building or site on which they are located; *To be processed separately as part of a sign package criteria.*
12. Lighting is compatible with the proposed building(s) and adjoining buildings and uses, and does not create negative effects. *Lighting will be in conformance with the City's requirements. No negative effects.*

Conclusion

Based on the information provided and the above analysis, staff recommends approval of the time extension for a Use Permit for tandem parking, and Development Plan Review. The tandem parking, through a valet managed system, will accommodate resident and visitor parking access. The design of the building provides a diverse continuity through shared building materials for the commercial and high rise tower and unique architectural elements. This request meets the required criteria, subject to conformance with the proposed conditions.

ZUP14048

CONDITIONS OF APPROVAL:

EACH NUMBERED ITEM IS A CONDITION OF APPROVAL. THE DECISION-MAKING BODY MAY MODIFY, DELETE OR ADD TO THESE CONDITIONS.

1. The use permit is valid until May 13, 2016. Use Permit approval shall be void if an application for a building permit has not been submitted by the time stipulated by the Development Review Commission, unless otherwise modified prior to the decision becoming null and void.
2. The use permit is a valid for the plans as shown. Any modification or intensification of tandem parking will require a new use permit application.
3. The development shall maintain access to all vehicle tandem parking spaces through a 24-hour management service of the facility.

DPR14083

CONDITIONS OF APPROVAL:

4. The development plan review is valid until May 13, 2016. Development plan approval shall be void if an application for a building permit has not been submitted by the time stipulated by the Development Review Commission, unless otherwise modified prior to the decision becoming null and void.
5. Prior to building permits, obtained from the Engineering Division, Land Services Section, the following abandonment and dedication of easements. The limitations of the easements shall include;
 - a. Abandonment of a portion of the waterline easement stub-outs for fire hydrants along the north property line. Modified easement shall maintain a minimum 3'-0" clear radius from the hydrant projections.
 - b. Abandonment of existing well maintenance easement and relocation/dedication of an easement for well monitoring equipment.
 - c. Dedication of an additional 6'-0" sidewalk easement for the construction of additional on-street parking spaces within the existing easement.
 - d. Dedication of a cross access easement for a fire lane and shared driveway minimum 10'-0" along the eastern property line. Lot 4 shall provide dedication of a similar easement.
6. Provide a 5'-6" wide public sidewalk along roadways consistent with the improvement district plans for the Pier, or as required by Traffic Engineering Design Criteria and Standard Details. Standard concrete detail shall be maintained throughout sidewalk easement area.
7. On-street parking spaces shall be designed providing a maximum 45 degree angle at either ends of the loading area, which provide a gradual transition for the pedestrian walkway and convenient access for motorists.
8. The parking garage ingress/egress drive shall maintain a maximum 4% slope with a minimum length of 12'-0" beyond the dedicated sidewalk easement.
9. The development shall provide improvements for matching paving materials over the fire lane easement located on Lot 4.

10. Provide service yard and mechanical (cooling tower/generator) yard walls that are at least 8'-0" tall as measured from adjacent grade and are at least the height of the equipment being enclosed, whichever is greater. Verify height of equipment and mounting base to ensure that wall height is adequate to fully screen the equipment. Locate electrical service entrance sections inside the service yard, as indicated.
11. Provide gates of steel vertical picket, steel mesh, steel panel or similar construction. Where a gate has a screen function and is completely opaque, provide vision portals for visual surveillance. Provide gates of height that match that of the adjacent enclosure walls. Review gate hardware with Building Safety and Fire staff and design gate to resolve lock and emergency ingress/egress features that may be required.
12. Provide upgraded paving at driveway drop-off loop along Vista Del Lago Drive, consisting of unique paving material delineation from plaza hardscape. Extend this paving beyond the concrete driveway apron and sidewalk.
13. Utility equipment boxes for this development shall be finished in a neutral color (subject to utility provider approval) that compliments the coloring of the buildings.
14. Place exterior, freestanding reduced pressure and double check backflow assemblies in pre-manufactured, pre-finished, lockable cages (one assembly per cage). If backflow prevention or similar device is for a 3" or greater water line, delete cage and provide a masonry or concrete screen wall following the requirements of Standard Detail T-214.

Floor Plans

15. Exit Security:
 - a. Provide visual surveillance by means of fire-rated glazing assemblies from stair towers into adjacent circulation spaces.
 - b. In instances where an elevator or stair exit in the garage is within 21'-0" of an alcove, corner or other potential hiding place, position a refracting mirror to allow someone in the exit doorway to observe in the mirror the area around the corner or within the alcove that is adjacent to the doorway.
16. Public Restroom Security:
 - a. Lights in restrooms:
 - 1) Provide 50% night lights
 - 2) Activate by automatic sensors, key or remote control mechanism
 - b. Single user restroom door hardware:
 - 3) Provide a key bypass on the exterior side
17. Garage Security:
 - a. Minimize interior partitions or convert these to semi-opaque screens to inhibit hiding behind these features.
 - b. Provide exit stairs that are open to the exterior as indicated.
 - c. Paint interior wall and overhead surfaces in garage floor levels with a highly reflective white color, minimum LRV of 75 percent.
 - d. Maximize openness at the elevator entrances and stair landings to facilitate visual surveillance from these pedestrian circulation areas to the adjacent parking level. Providing a viewing window from both elevator lobby walls and vision panel in the doorways located in the garage level.
18. Parking Garage:
 - a. Minimum required parking dimensions shall be clear of any obstructions.
 - b. At the ends of dead-end drive aisles, provide a minimum 3'-0" vehicular maneuvering area for exiting.
 - c. Provide a minimum 2'-0" of additional width for parking spaces when adjacent to a continuous wall (excludes columns).

Building Elevations

19. The materials and colors are approved as presented:
 - Integral Color Concrete -
 - Precast Concrete Panel – Color A
 - Precast Concrete Panel – Color B

Concrete Masonry – Blend

Large Aggregate Concrete

Metal Panel / Mullion: Color A – “Silversmith”; Color B – “Weathered Zinc”; Color C – “Faux Rust”; Color D – “Dark Bronze”;

Color E – “Titanium Grey”

Fabric Canopy “Corn silk”

Provide main colors and materials with a light reflectance value of 75 percent or less. Specific colors and materials exhibited on the materials sample board are approved by planning staff. Additions or modifications may be submitted for review during building plan check process.

20. Provide secure roof access from the interior of the building. Do not expose roof access to public view.
21. Conceal roof drainage system within the interior of the building.
22. Incorporate lighting, address signs, and incidental equipment attachments (alarm klaxons, security cameras, etc.) where exposed into the design of the building elevations. Exposed conduit, piping, or related materials is not permitted.
23. Locate the electrical service entrance section (S.E.S.) inside the building or inside a secure yard that is concealed from public view.
24. Upper/lower divided glazing panels in exterior windows at grade level, where lower glass panes are part of a divided pane glass curtain-wall system, shall be permitted only if laminated glazing at these locations is provided.

Lighting

25. This project shall follow requirements of the Zoning and Development Code, Part 4, Chapter 8, Lighting, unless otherwise conditioned.
26. Illuminate building entrances and underside of open stair landings from dusk to dawn to assist with visual surveillance at these locations.

Landscape

27. The plant palette is approved as proposed and specified on the landscape plan. Any additions or modifications may be submitted for review during building plan check process.
28. Irrigation notes:
 - a. Provide a dedicated landscape water meter.
 - b. Provide pipe distribution system of buried rigid (polyvinylchloride), not flexible (polyethylene). Use of schedule 40 PVC mainline and class 315 PVC ½” feeder line is acceptable. Class 200 PVC feeder line may be used for sizes greater than ½”. Provide details of water distribution system.
 - c. Locate valve controller in a vandal resistant housing.
 - d. Hardwire power source to controller (a receptacle connection is not allowed).
 - e. Controller valve wire conduit may be exposed if the controller remains in the mechanical yard.
 - f. Repair existing irrigation system (on site or in the adjacent public right of ways) where damaged by work of this project. Provide temporary irrigation to existing landscape for period of time that irrigation system is out of repair.
29. Include requirement to de-compact soil in planting areas on site and in public right of way and remove construction debris from planting areas prior to landscape installation.
30. Top dress planting areas with a rock or decomposed granite application. Provide rock or decomposed granite of 2” uniform thickness. Provide pre-emergence weed control application and do not underlay rock or decomposed granite application with plastic.
31. Trees shall be planted a minimum of 12’-0” from any existing or proposed public water or sewer lines located on-site. Trees near

the main water or sewer lines located within the right of way shall be planted at least 20'-0" away. Final approval subject to determination by the Public Works, Water Utilities Division.

32. The tree planting separation requirements may be reduced from the waterline upon the installation of a linear root barrier, a minimum of 6'-0" parallel from the waterline, or around the tree. The root barrier shall be a continuous material, a minimum of 0.08" thick, installed 0'-2" above finish grade to a depth of 8'-0" below grade. Final approval subject to determination by the Public Works, Water Utilities Division.

Signage

33. Provide address sign(s) on the building elevation facing the street to which the property is identified.
 - a. Conform to the following for building address signs:
 - 1) Provide street number only, not the street name
 - 2) Compose of 12" high, individual mount, metal reverse pan channel characters.
 - 3) Self-illuminated or dedicated light source.
 - 4) Coordinate address signs with trees, vines, or other landscaping, to avoid any potential visual obstruction.
 - 5) Do not affix number or letter to elevation that might be mistaken for the address.
 - b. Utility meters shall utilize a minimum 1" number height in accordance with the applicable electrical code and utility company standards.
 - c. Provide one address sign on the roof of the building. Orient sign to be read from the south.
 - 1) Include street address number in 6'-0" high characters on one line and street name in 3'-0" high characters on a second line immediately below the first.
 - 2) Provide high contrast sign, either black characters on a light surface or white characters on a black field that is painted on a horizontal plane on the roof. Coordinate roof sign with roof membrane so membrane is not compromised.
 - 3) Do not illuminate roof address.

CODE/ORDINANCE REQUIREMENTS:

THE BULLETED ITEMS REFER TO EXISTING CODE OR ORDINANCES THAT PLANNING STAFF OBSERVES ARE PERTINENT TO THIS CASE. THE BULLET ITEMS ARE INCLUDED TO ALERT THE DESIGN TEAM AND ASSIST IN OBTAINING A BUILDING PERMIT AND ARE NOT AN EXHAUSTIVE LIST.

- Specific requirements of the **Zoning and Development Code (ZDC)** are not listed as a condition of approval, but will apply to any application. To avoid unnecessary review time and reduce the potential for multiple plan check submittals, become familiar with the ZDC. Access the ZDC through www.tempe.gov/zoning or purchase from Community Development.
- **SITE PLAN REVIEW:** Verify all comments by the Public Works Department, Community Development Department, and Fire Department given on the Preliminary Site Plan Review. If questions arise related to specific comments, they should be directed to the appropriate department, and any necessary modifications coordinated with all concerned parties, prior to application for building permit. Construction Documents submitted to the Building Safety Department will be reviewed by planning staff to ensure consistency with this Design Review approval prior to issuance of building permits.
- **STANDARD DETAILS:**
 - Access to Tempe Supplement to the M.A.G. Uniform Standard Details and Specifications for Public Works Construction, at this link: www.tempe.gov/index.aspx?page=2147 or purchase book from the Public Works Engineering Division.
 - Access to refuse enclosure details and all other Building Safety forms at this link: www.tempe.gov/index.aspx?page=1033. The enclosure details are under Civil Engineering & Right of Way.
- **BUILDING HEIGHT:** Measure height of buildings from top of curb at a point adjacent to the center of the front property line.
 - Submit to the Federal Aviation Administration (FAA) a notice of proposed construction or alteration (Form 7460-1), for tall buildings located in the flight path, so that the FAA can conduct an Obstruction Evaluation / Airport Airspace Analysis (OE/AAA).
- **COMMUNICATIONS:**
- Provide emergency radio amplification for the combined building and garage area in excess of 50,000 sf. Amplification will allow Police and Fire personnel to communicate in the buildings during a catastrophe. Refer to this link: www.tempe.gov/index.aspx?page=949. Contact the Information Technology Division to discuss size and materials of the buildings and to verify radio amplification requirements.
- **PUBLIC ART:** (If 50,000 sf. or more commercial area) Provide public art for this development in conformance with the Art in Private Development Ordinance and ZDC Sec. 4-407 and ZDC Appendix D. Contact the Community Services, Cultural Services Division regarding implementation of this requirement prior to receiving building permits.
- **WATER CONSERVATION:** Under an agreement between the City of Tempe and the State of Arizona, Water Conservation Reports are required for landscape and domestic water use for the non-residential components of this project. Have the landscape architect and mechanical engineer prepare reports and submit them with the construction drawings during the building plan check process. Report example is contained in Office Procedure Directive # 59. Refer to this link: www.tempe.gov/modules/showdocument.aspx?documentid=5327. Contact Public Works Department Water Conservation Division with questions regarding the purpose or content of the water conservation reports.
- **HISTORIC PRESERVATION:** State and federal laws apply to the discovery of features or artifacts during site excavation (typically, the discovery of human or associated funerary remains). Contact the Historic Preservation Officer with general questions. Where a discovery is made, contact the Arizona State Historical Museum for removal and repatriation of the items.
- **SECURITY REQUIREMENTS**
- Provide a security vision panel at elevator rooms, service and exit doors (except to rarely accessed equipment rooms) with a 3" wide high strength plastic or laminated glass window, located between 43" and 66" from the bottom edge of the door.

- SIDEWALKS: Follow City of Tempe Public Works Department Detail T-353, when designing all sidewalk areas in the Right-of-Way. Alternative paver materials may be considered subject to review, and approval, by the Engineering and Planning Departments. Any alternative patterns should be used in small amounts to create accent areas at entrances, or to demarcate architectural features of the building. Do not propose a wholesale change of material. These materials shall be compatible with the Americans with Disabilities Act, ADA, and the Building Code.
- FIRE:
 - Clearly define the fire lanes. Ensure that there is at least a 20'-0" horizontal width, and a 14'-0" vertical clearance from the fire lane surface to the underside of tree canopies or overhead structures. Layout and details of fire lanes are subject to Fire Department approval.
 - Provide a fire command room(s) on the ground floor of the building(s). Verify size and location with Fire Department.
- ENGINEERING:
 - Underground utilities except high-voltage transmission line unless project inserts a structure under the transmission line.
 - Coordinate site layout with Utility provider(s) to provide adequate access easement(s).
 - Clearly indicate property lines, the dimensional relation of the buildings to the property lines and the separation of the buildings from each other.
 - Verify location of any easements, or property restrictions, to ensure no conflict exists with the site layout or foundation design.
 - The site is within an Alternative Retention Criteria Area. Verify specific design considerations with the Engineering Department.
- REFUSE:
 - For commercial building; construct walls, pad and bollards in conformance with standard detail DS-116 or DS-118.
 - Contact Public Works Sanitation Division to verify that vehicle maneuvering and access to the enclosure is adequate.
 - Develop strategy for recycling collection and pick-up from site with Sanitation. Coordinate storage area for recycling containers with overall site and landscape layout.
 - Refuse must remain in an enclosed area screened from street view. If gates are provided, the property manager must arrange for gates to be open from 6:00am to 4:30pm on collection days.
- DRIVEWAYS:
 - Construct driveways in public right of way in conformance with Standard Tempe Detail T-320.
 - Correctly indicate clear vision triangles at both driveways on the site and landscape plans. Identify speed limits for adjacent streets at the site frontages. Begin sight triangle in driveways at point 15'-0" in back of face of curb. Consult "Corner Sight Distance" leaflet, available from Traffic Engineering if needed. Do not locate site furnishings, screen walls or other visual obstructions over 2'-0" tall (except canopy trees are allowed) within each clear vision triangle.
 - Resolve "Tract A" access drive with the Public Works, Traffic Engineer. It has been determined that a 45'-0" radius cul-de-sac is required. Verify access use and compliance with Traffic, including location of vehicle gates.
- PARKING SPACES:
 - Verify conformance of accessible vehicle parking to the Americans with Disabilities Act of 1990 (42 U.S.C.A. §12101 ET SEQ.) and the Code of Federal Regulations Implementing the Act (28 C.F.R., Part 36, Appendix A, Sections 4.1 and 4.6). Refer to Standard Detail T-360 for parking layout and accessible parking signs.
 - At parking areas, provide demarcated accessible aisle for disabled parking.
 - Distribute bike parking areas nearest to main entrance(s). Provide parking loop/rack per standard detail T-578. Provide 2'-0" by 6'-0" individual bicycle parking spaces. One loop may be used to separate two bike parking spaces. Provide clearance between bike spaces and adjacent walkway to allow bike maneuvering in and out of space without interfering with pedestrians, landscape materials or vehicles nearby.

- **LIGHTING:**
 - Design site security light in accordance with requirements of ZDC Part 4 Chapter 8 (Lighting) and ZDC Appendix E (Photometric Plan).
- Indicate the location of all exterior light fixtures on the site, landscape and photometric plans. Avoid conflicts between lights and trees or other site features in order to maintain illumination levels for exterior lighting.
- **LANDSCAPE:**
 - Prepare an existing plant inventory for the site and adjacent street frontages. The inventory may be prepared by the Landscape Architect or a plant salvage specialist. Note original locations and species of native and “protected” trees and other plants on site. Move, preserve in place, or demolish native or “protected” trees and plants per State of Arizona Agricultural Department standards. File Notice of Intent to Clear Land with the Agricultural Department. Notice of Intent to Clear Land form is available at www.azda.gov/ESD/nativeplants.htm . Follow the link to “applications to move a native plant” to “notice of intent to clear land”.
- **SIGNS:** Separate Development Plan Review process is required for signs in accordance with requirements of ZDC Part 4 Chapter 9 (Signs). Obtain sign permit for identification signs. Directional signs (if proposed) may not require a sign permit, depending on size. Directional signs are subject to review by planning staff during plan check process.

HISTORY & FACTS:

September 10, 1998	City Council approved the request for CIUDAD DEL LAGO-RIO EAST for a Final Planned Area Development consisting of the Peabody Hotel, located at 1200 East Rio Salado Parkway.
May 17, 2007	City Council approved the request of an Amended Planned Area Development Overlay for PIER 202 (PL060548) consisting of nine (9) new buildings up to 310 feet in height for commercial, 285 room hotel and 1,484 residential units on +/-27.4 acres, located at 1200 East Rio Salado Parkway, in the MU-4, Mixed-Use High Density District.
August 14, 2007	Development Review Commission approved a Preliminary Subdivision Plat and a Development Plan Review consisting of a landscape plan for street frontage, requested by PIER 202 located at 1200 East Rio Salado Parkway.
April 24, 2012	At the Development Review Commission study session, the applicant for the Villas at South Bank provided an overview presentation of the project.
May 8, 2012	Development Review Commission approved the request for a Use Permit and Development Plan Review, and recommended approval for an Amended Planned Area Development Overlay for VILLAS AT SOUTH BANK (PL120046) (City of Tempe, property owner; MDT Development Partners LLC, applicant) consisting of 262 units within a 17-story senior living facility (including assisted living and memory care components) and a 2-story commercial building, totaling 367,896 sf. in building area on 2.23 net acres, located at 1122 East Vista Del Lago Drive in the MU-4 (PAD), Mixed-Use High Density District with a Planned Area Development Overlay and the Rio Salado Overlay District. The request includes the following: PAD12002 (Ordinance No. 2012.23) – An Amended Planned Area Development Overlay to establish development standards of 118 dwelling units per acre; a maximum building height of 211'-0"; reduce the required vehicle parking from 458 to 187 spaces, and reduce the required bicycle parking from 182 to 53 spaces. ZUP12025 – Use Permit to allow tandem parking. DPR12032 – Development Plan Review including site plan, building elevations and landscape

plan.

- May 31, 2012 City Council introduced and held the first public hearing for an Amended Planned Area Development Overlay for VILLAS AT SOUTH BANK (PL120046), located at 1122 East Vista Del Lago Drive.
- June 14, 2012 City Council, at the second and final public hearing, approved the request for an Amended Planned Area Development Overlay for VILLAS AT SOUTH BANK (PL120046), located at 1122 East Vista Del Lago Drive.
- May 8, 2013 Community Development staff received a time extension application for the use permit for tandem parking and development plan review, for this request. On July 7, 2013, staff administratively approved a one-year extension from the date of the original decision.

ZONING AND DEVELOPMENT CODE REFERENCE:

- Section 6-306, Development Plan Review
- Section 6-308, Use Permit
- Section 6-311, Shared Parking

City of Tempe Arizona Development Review Commission

April 14, 2014

Reference: Request for a Two Year Time Extension The Villas at SouthBank DRC Approval date
May 8, 2012

DEVELOPMENT PLAN REVIEW (DPR 12032)
USE PERMIT TO ALLOW TANDEM PARKING (ZUP12025)

To Whom It May Concern:

As you may be aware, the ownership structure of the above referenced project has partially changed and a new group has been formed to continue with the development of the project. The new partnership is Rio Salado Development Partners, LLC.

This said, the new partnership is requesting a two-year extension of our entitlements granted under Development Review Commissions Approval dated May 8, 2012.

Rio Salado Development Partners is committed to the development of this very key senior living project that will set the bar for future senior developments nationally. We are scheduled to begin construction in the 4th quarter of this year.

We thank you in advance for your continued support. Should you have questions or need additional information please do not hesitate to contact me directly at 623 537-7993.

Sincere Regards,



James Mitchell, CEO (for Rio Salado Development Partners, LLC)

ORDINANCE NO. 2012.23

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA, AMENDING THE CITY OF TEMPE ZONING MAP, PURSUANT TO THE PROVISIONS OF ZONING AND DEVELOPMENT CODE PART 2, CHAPTER 1, SECTION 2-106 AND 2-107, RELATING TO THE LOCATION AND BOUNDARIES OF DISTRICTS.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA, as follows:

Section 1. That the City of Tempe Zoning Map is hereby amended, pursuant to the provisions of Zoning and Development Code, Part 2, Chapter 1, Section 2-106 and 2-107, by amending the Planned Area Development Overlay to the existing MU-4 (PAD), Mixed-Use High Density District on 2.226 acres.

LEGAL DESCRIPTION

LOT 3 OF "PIER 202 – AMENDED" ACCORDING TO BOOK 949 OF MAPS, PAGE 48, RECORDS OF MARICOPA COUNTY, ARIZONA.

TOTAL AREA IS 96,956 SQ. FT.

Section 2. Further, those conditions of approval imposed by the City Council as part of **Case # PL120046/PAD12002** are hereby expressly incorporated into and adopted as part of this ordinance by this reference.

Section 3. Pursuant to City Charter, Section 2.12, ordinances are effective thirty (30) days after adoption.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA, this _____ day of _____, 2012.

Mayor

ATTEST:

City Clerk

APPROVED AS TO FORM:

City Attorney

WHEN RECORDED RETURN TO:
City of Tempe
Community Development Department
31 E. 5th Street
Tempe, AZ. 85281

**WAIVER OF RIGHTS AND REMEDIES
UNDER A.R.S. §12-1134**

This Waiver of Rights and Remedies under A.R.S. § 12-1134 (Waiver) is made in favor of the City of Tempe (City) by SOUTHBANK ASU, LLC, a Delaware limited liability company (Owner/s).

Owner acknowledges that A.R.S. § 12-1134 provides that in some cases a city must pay just compensation to a land owner if the city approves a land use law that reduces the fair market value of the owner's property (Private Property Rights Protection Act).

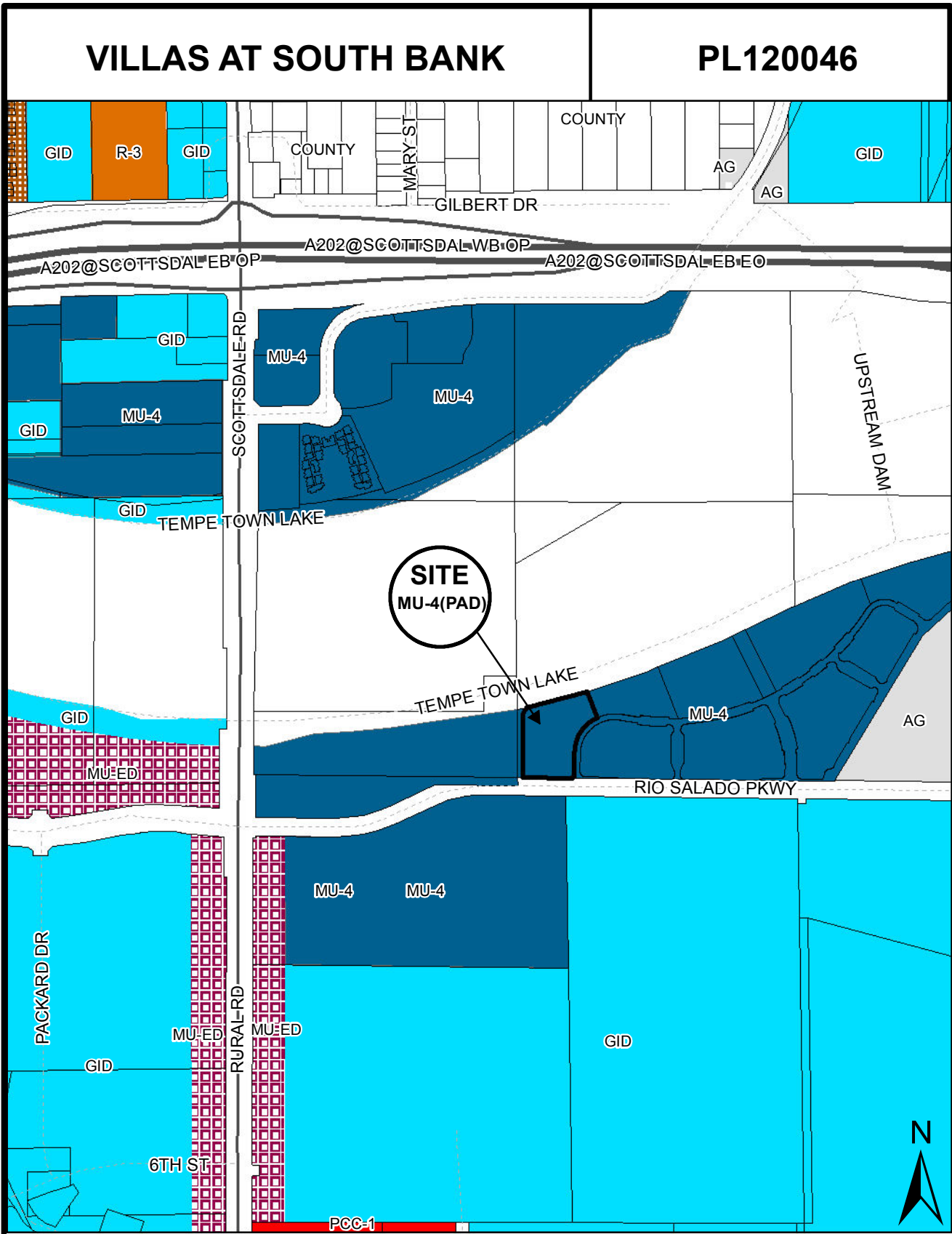
Owner further acknowledges that the Private Property Rights Protection Act authorizes a private property owner to enter an agreement waiving any claim for diminution in value of the property in connection with any action requested by the property owner.

Owner has submitted Application No. **PL120046** to the City requesting that the City approve the following:

- GENERAL PLAN AMENDMENT
- ZONING MAP AMENDMENT
- PAD OVERLAY
- HISTORIC PRESERVATION DESIGNATION/OVERLAY
- USE PERMIT
- VARIANCE
- DEVELOPMENT PLAN REVIEW
- SUBDIVISION PLAT/CONDOMINIUM PLAT
- OTHER _____
(Identify Action Requested)

for development of the following real property (Property):

Parcel No. : 132-32-017
Addresses: 1122 East Vista Del Lago Drive, Tempe, Arizona.



Location Map



VILLAS AT SOUTH BANK (PL120046)

4 May 2012

City of Tempe

Application Request PAD Overlay

The Villas at South Bank Letter of Explanation

- A. The Villas at South Bank is requesting an Amended Planned Area Development Overlay to establish development standards of 118 dwelling units per acre: a maximum building height of 211'-0"; reduce the required vehicle parking from 458 to 187 spaces and reduce the required bicycle parking from 182 to 53 spaces.

The Villas at South Bank is a proposed mixed-use senior housing development with a mix of land uses including residential, retail and restaurant. The project requires sufficient height and density to support the project program and to support the retail amenities provided. The project height and density is consistent with the current zoning, projected land use and density in the Tempe General Plan 2030. The site is currently zoned MU-4 (PAD). This zoning district allows for unlimited housing density in a mixed use setting, while the projected land use and density of the 2030 General Plan is for a live/work mixed-use project of high density (greater than 25 dwelling units/acre). The project site lies within the Town Lake Growth Area as identified in the 2030 General Plan. This growth area encourages vertical mixed-use development to maximize land use.

Given the projects senior demographic and mixed-use program it is expected that much of the traffic to and from this 'non-typical' project site will remain internal. A project site shared parking (interaction) reduction rate was applied to the vehicle parking requirements to account for the interaction between the various businesses (customers of the development visiting more than one business on a trip to the site). With a mix of land uses including residential, retail and restaurant, it is expected that much of the traffic to and from the project site will remain internal. Due to the nature of the project site and its expected land uses, a 60% shared (interaction) parking reduction rate was used, which decreased the vehicle parking space requirements to 112 (60%) parking spaces.

The proposed land uses for the Villas at Southbank also have distinct peak demand times (bank during the day and restaurants typically during the evening). This allows mixed-use developments to share parking spaces. A peak parking demand analysis (per City of Tempe guidelines) was performed for the project site, with the resulting parking space requirements being further reduced to 93 spaces on the weekday and 92 parking spaces on the weekends using the 60% shared parking (interaction) reduction.

With more than 50% of the retail, banking, and eating traffic anticipated to be generated by the Villas at Southbank residents, the 187 proposed parking spaces are calculated to be adequate for the project site. Moreover, the project will be providing car and local shuttle services for residents which are expected to further decrease parking needs for the project site by limiting the need for personal vehicles.

By providing valet parking service, it is expected that the project site can optimize on-site parking by placing vehicles on their proper floor, with the option of additional tandem parking, in turn supplying additional parking spaces to further reduce parking needs.

Based on City of Tempe and APA bicycle parking requirements, the Villas at Southbank project will need 189 bicycle parking spaces. The Villas at Southbank is proposing to construct fifty-four (54). Once again, due the 'senior adult' nature of the project, it is not expected that the project site would have a large demand for bicycle use. Moreover, if the independent living and guest suites are treated similar to the assisted living land use portion of the project site, only thirty (30) bicycle spaces are required for the project site.

- B. This Planned Area Development Overlay will accommodate an innovative mixed-use development that is able to function as an individual community. The Villas at South-Bank is a uniquely programmed Senior Living Experience consisting of 258 luxury living units and 4 guest suites based upon a Signature "On Campus Senior Living Environment" model. The team has a strong, strategic partnership with Arizona State University and the project's focus is on reconnecting alumni, faculty, employees and friends of the University back to the campus at a retirement age.

This program provides the residents of the Villas at South-Bank opportunities and full access to: continued lifelong learning, the arts and culture, mentoring opportunities, sporting events and perhaps most valuable, the opportunity to engage in a true multi-generational society that fosters independence, good health, youthful thinking, and vibrancy, all within a luxury living environment that provides the very best in terms of housing, care and security for its residents. The Villas at South-Bank truly defines the next generation in senior living and will stand as an example for future projects throughout North America.

The residents will enjoy a number of lifestyle options ranging from independent Care (IC) to Assisted Living (ALF), and secured Memory Care (ALZ). All resident regardless of which option best fits their needs will have full access to all amenities.

Coupled with this truly unique program is a host of supportive retail venues designed to enhance the lifestyle of our residents and the neighboring community and campus; banking facilities, 24 hour resident valet parking, Day Spa and Salon with a full array of services, Coffee and Bakery retail, Dry Cleaner, 5-star lakefront dining, and a fitness facility that is dedicated to senior living.

Through the PAD overlay, the living experience at the Villas at South Bank and its activated public experience will encourage and promote an interactive relationship with the future development and the project's greater surroundings.

- C. This PAD Overlay is necessary as it will help to fulfill a number of the performance objectives and strategies of the Tempe General Plan 2030, such as:
- Encourage mixed-use development that provides needed local services and housing on a neighborhood scale with an efficient use of the land
 - Provide opportunities for people with different abilities to meet, live, learn, work and play together
 - Encourage mixed-use development that provides local services and a residential component appropriate to the neighborhood
 - Create recognizable and usable places by enhancing enclosure, connections, permeability and transparency
 - Encourage and enhance pedestrian movement
 - Respond to climactic factors and human comfort
 - Provide opportunities for interaction and observation
 - Encourage mixed-use designs
 - Promote high quality architecture and landscape design in private and public spaces
 - Encourage open space and preserve critical views, access corridors, and waterfront orientation

City of Tempe – PAD Overlay
Villas South Bank - Letter of Explanation
4 May 2012

- Promote public accessibility and discourage intimidating or exclusive environments
- Encourage vertical mixed-use development to maximize land use

March 5, 2012

City of Tempe

Application Request

Use Permit

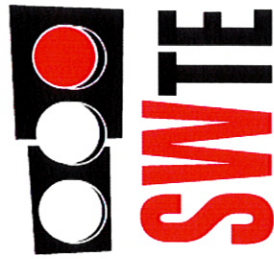
The Villas at South Bank

Letter of Explanation

The Villas at South Bank will be utilizing tandem parking for the residents. A 24 hour valet service will be provided for the resident parking. Residents will have direct access from their units to the valet service via the resident elevators that would take them to B1 level where the valet is to be located. Resident vehicles are to be valeted to and from the drop off located at the B1 level in the subterranean parking garage. Resident vehicles will be parked by valet staff in a gated location at the B2 subterranean parking level.

The location of the valet service at the B1 level prevents any impact of the valet service and tandem parking operation on the functioning of the building, the vehicular and pedestrian circulation on Vista del Lago, and on the future surrounding development. Given the valet location in the garage level, no additional nuisance will be caused from this activity that would exceed ambient conditions. Given that its location and operation is completely internalized within the project, this use will not contribute to the deterioration of the neighborhood, or result in any disruptive behavior that would create a nuisance to the surrounding area or general public.

Please see attached parking analysis which provides additional information regarding the parking requirements.



SOUTHWEST TRAFFIC
ENGINEERING, LLC

PARKING ANALYSIS

VILLAS AT SOUTHBANK

2 MARCH 2012
REVISED 3 APRIL 2012
REVISED 6 APRIL 2012



Expires 3-31-13

PREPARED FOR
MDT DEVELOPMENT PARTNERS, LLC
41601 NORTH PINION HILLS COURT
ANTHEM, ARIZONA 85086

PREPARED BY
SOUTHWEST TRAFFIC ENGINEERING, LLC
3838 NORTH CENTRAL AVENUE, SUITE 1810
PHOENIX, AZ 85012
T 602.266.SWTE (7983) F 602.266.1115



**PARKING ANALYSIS
VILLAS AT SOUTHBANK
RIO SALADO PARKWAY/VISTA DEL LAGO DRIVE**

Executive Summary

The Villas at Southbank is a proposed mixed-use senior housing development in Tempe, Arizona. With a mix of land uses including residential, retail and restaurant, it is expected that much of the traffic to and from the project site will remain internal.

The project site is also a ‘non-typical’ development that does not fall readily into typical Tempe zoning requirements such as parking. In order to determine the vehicle and bicycle parking need for the project site, City of Tempe, ITE (Institute of Transportation Engineers), and American Planning Association (APA) parking requirements were utilized to establish land uses and parking ratios that were appropriate for the Villas at Southbank project site.

Using these parking ratios, a parking need was established. Next, a shared parking (interaction) reduction rate was applied, along with a peak parking demand analysis, to account for the interaction between the various land uses/businesses (customers of the development visiting more than one business on a trip to the site). An example of shared parking would be picking up dry cleaning before going to the bank. Various land uses also have distinct peak parking demand times (banks during the day and restaurants typically during the evening). This allows mixed-use developments to share parking spaces.

Due to the nature of and expected uses of the project site, a 60% shared (interaction) parking reduction rate was used. Taking into account the peak parking demand for the project site, 93 vehicle parking spaces on the weekdays, and 92 vehicle parking spaces on the weekends, were calculated for the project site. With more than 50% of the retail, banking, and eating traffic anticipated to be generated by the Villas at Southbank residents, the 187 proposed vehicle parking spaces are calculated to be adequate for the project site. Moreover, the project will be providing car and local shuttle services for residents which are expected to further decrease parking needs for the project site by limiting the need for personal vehicles.

Based on City of Tempe and APA bicycle parking requirements, the Villas at Southbank project will need 189 bicycle parking spaces. The Villas at Southbank is proposing to construct fifty-four (54). Once again, due to the ‘senior adult’ nature of the project, it is not expected that the project site would have a large demand for bicycle use. Moreover, if the independent living and guest suites are treated similar to the assisted living land use portion of the project site, only thirty (30) bicycle spaces are required for the project site.

By providing valet service it is expected that the project site can optimize on-site parking by placing vehicles on their proper floor, with the option of additional tandem parking, in turn supplying additional parking spaces to further reduce parking needs.



**PARKING ANALYSIS
VILLAS AT SOUTHBANK
RIO SALADO PARKWAY/VISTA DEL LAGO DRIVE**

Project Description

The Villas at Southbank is a proposed mixed-use senior living development in Tempe, Arizona that has proposed providing 187 vehicle parking spaces and fifty-four (54) bicycle parking spaces. The project is located on the northwest corner of the Rio Salado Parkway/Vista Del Lago Drive, as shown in **Figure 1**. With a mix of land uses including residential, retail and restaurant, it is expected that much of the traffic to and from this ‘non-typical’ project site will remain internal.

The purpose of this study is to evaluate the parking requirements for the Villas at Southbank development and if necessary, provide recommendations to mitigate any parking deficiencies.

The author of this report is a registered professional engineer (civil) in the State of Arizona having specific expertise and experience in the preparation of traffic analyses.

Study Methodology

In order to analyze and evaluate the parking requirements for the proposed Villas at Southbank, the following tasks were undertaken:

- A review of the site plan was performed to determine the various types of proposed land uses.
- A review of City of Tempe, ITE, and APA parking requirements was performed to determine the parking ratios for each proposed land use. The required parking space total per the City’s requirements was determined for each use in each parking zone.
- A shared parking (interaction) evaluation was completed for the project site.
- Peak parking demand analyses were performed for the site using the identified land uses and the peak parking demand percentages for each individual land use.

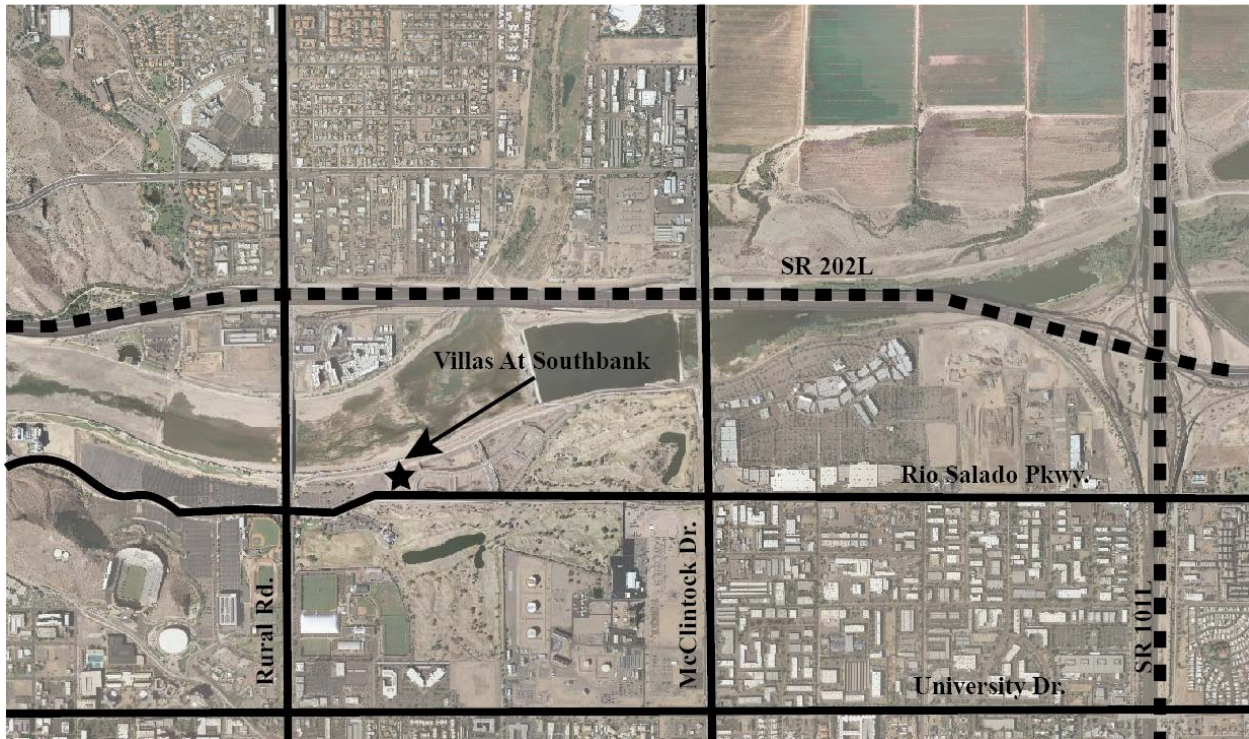
Proposed Development

The Villas at Southbank is proposed as a new multi-use project that focuses on various stages senior adult living and includes retail space which will serve mostly residents of the development. Once fully completed, the proposed Villas at Southbank project will house the following land uses;

- | | |
|---|------------------------|
| • Continuing Care Retirement Community | 262 units (331 beds) |
| ○ Memory Care – 24 beds | |
| ○ Assisted Living – 65 beds | |
| ○ Independent Living – 238 beds | |
| ○ Guest Suites – 4 beds | |
| • Walk In Bank | 1,400 square feet (sf) |
| • Specialty Retail | 700 sf |
| • Spa | 3,000 sf |
| • Quality Restaurant | 6,150 sf |
| • Walk In Bread/Donut/Bagel Shop (Café) | 1,030 sf |



Figure 1 – Vicinity Map





Parking Management

Parking for the Villas at Southbank project will be provided by a two story parking underground garage and will house 187 parking spaces. The first floor of the garage, B1, will provide 62 parking spots and will be used only for visitors to the retail and residential portions of the project. The second floor of the garage, B2, will provide 125 tandem parking spaces which will strictly serve residents only. All parking for the project site will be managed by a 24-hour valet service. The valet service is expected to optimize on-site parking by placing vehicles on their proper floor, with the option of additional tandem parking, in turn supplying additional parking spaces to further reduce parking needs.

The valet station will be located on parking level B1. Visitors and residents will be able to drop off their vehicles at the valet station at which point the valet will park the vehicle on the appropriate floor. Residents will have the option of calling down to the valet station from their residence before walking down so that their vehicle will be waiting for them by the time they arrive at the valet station. In addition, visitors will have self-park opportunities on B1.

Parking Requirements

Due to the wide variety of developments that can occur in a community, along with specific characters of communities, city land use designations for parking requirements often try to cast a wide net to include as many situations as possible. While the designations cover typical land uses, they frequently do not take into hand non-typical land uses. In turn forcing such non-typical developments into categories that on the surface appear similar, but in actuality operate quite different.

When such land uses occur, it is customary to review land uses in nationally accepted guidelines such as the Institute of Transportation Engineers (ITE) publication *Parking Generation, 4th Edition*, 2010 or the American Planning Association's (APA) publication *Parking Standards*, 2002. Land uses can also be reviewed in adjacent communities. These accepted sources of information can however lead to some confusion based on nomenclature. Terminology can even be different with a city's own guidelines such as land uses identified for parking requirements and land uses identified for peak parking requirements.

This report focuses on City of Tempe guidelines. However, in a few cases, due to applicability, ITE and APA guidelines are also included. As such, the terminology for the project land uses is slightly different between the guidelines. These differences are as follows:

Project Land Use – Continuing Care Community

- Tempe – Nursing Home/Elder Care, Elderly Apartments
- ITE – Assisted Living, Senior Adult Housing
- APA – not used

Project Land Use – Bank

- Tempe – Financial Institution
- ITE – not used
- APA – not used



Project Land Use – Specialty Retail

- Tempe – Indoor Retail
- ITE – Dry Cleaners
- APA – not used

Project Land Use – Spa

- Tempe – Health Club/Spa
- ITE – not used
- APA – Personal Services Establishment

Project Land Use – Quality Restaurant

- Tempe – Indoor Restaurant, Restaurant General
- ITE – Quality Restaurant
- APA – not used

Project Land Use – Walk In Bread/Donut/Bagel Shop (Café)

- Tempe – Indoor Restaurant, Restaurant General
- ITE – Bread/Donut/Bagel Shop without Drive-Thru Window
- APA – not used

The City of Tempe provides vehicle and bicycle parking ratios for various land uses in their Zoning and Development Code. Per Section 4-603 Parking Ratios, the parking ratios shown in **Table 1** are applicable to the Villas at Southbank development.

Table 1 – City of Tempe Parking Ratios

Land Use	Required Parking	Required Bicycle Parking
Nursing Home/Elder Care	.5 parking spaces per bed	.05 parking spaces per bed
Residential Multi-Family Studio	1 Parking spaces per unit	0.75 Parking spaces per unit
Residential Multi-Family 1 Bedroom	1.5 Parking spaces per unit	0.75 Parking spaces per unit
Residential Multi-Family 2 Bedroom	2 Parking spaces per unit	0.75 Parking spaces per unit
Residential Multi-Family Guest Suite	1.5 Parking spaces per unit	.75 Parking spaces per unit
Residential Multi-Family Guest	0.2 Parking spaces per unit	.2 Parking spaces per unit
Financial Institution	1 Parking space per 300 square feet	1 Parking space per 1,500 square feet
Indoor Retail	1 Parking space per 300 square feet	1 Parking space per 7,500 square feet, 4 Minimum
Spa (Retail/Service)	1 Parking space per 300 square feet	1 Parking space per 7,500 square feet, 4 Minimum
Indoor Restaurant	1 parking space per 75 square feet	1 parking space per 500 square feet
Outdoor Restaurant *	1 parking space per 150 square feet	1 parking space per 2,000 square feet

*no parking first 300 square feet

Applying the Tempe parking ratios in **Table 1** to the land use values summarized above results in the parking space requirements for the project site as shown in **Table 2**. These values specify 458 vehicle parking spaces and 189 bicycle spaces are required for the project site.



Table 2 – City of Tempe Parking Requirements

USE	Vehicle Parking Ratios	Unit (Vehicle)	Total Size	Minimum Vehicle Parking Spaces Needed	Bicycle Parking Ratios	Unit (Bicycle)	Minimum Bicycle Spaces Needed
Nursing Home/Elder Care (Memory Care)	0.5	Per Bed	24	12.00	0.05	Per Bed	1.20
Nursing Home/Elder Care (Assisted Living)	0.5	Per Bed	65	32.50	0.05	Per Bed	3.25
Residential Multi-Family Studio (Independent Living)	1	Per Unit	25	25.00	0.75	Per Unit	18.75
Residential Multi-Family 1 Bedroom (Independent Living)	1.5	Per Unit	75	112.50	0.75	Per Unit	56.25
Residential Multi-Family 2 Bedrooms (Independent Living)	2	Per Unit	69	138.00	0.75	Per Unit	51.75
Residential Multi-Family Guest Suite (1 bedroom)	1.5	Per Unit	4	6.00	0.75	Per Unit	3.00
Residential Multi-Family Guest (All Suites)	0.2	Per Unit	173	34.60	0.20	Per Unit	34.60
Financial Institution	1	Per 300 sf	1,400	4.67	1	Per 1,500 sf	0.93
Indoor Retail (dry cleaners)	1	Per 300 sf	700	2.33	1	Per 7,500 sf (4 min)	4.00
Spa	1	Per 300 sf	3,000	10.00	1	Per 7,500 sf (4 min)	4.00
Indoor Restaurant (includes main restaurant and bagel shop)	1	Per 75 sf	5,180	69.07	1	Per 500 sf	10.36
Outdoor Restaurant (includes outside portion of main restaurant)*	1	Per 150 sf	2,000	11.33	1	Per 2,000 sf	1.00
			Total	458		Total	189

*no parking first 300 square feet

sf - square feet

However, several of the above land uses do not apply to the Villas at Southbank project. Per City of Tempe direction, the independent senior living and guest suites were broken out to follow the multi-family land use designations. Multi-family developments are expected to demand more parking than a senior housing project. Moreover, the indoor retail and restaurant land uses cover a large spectrum. Upon review of ITE and APA standards the requirements shown in **Table 3** are more relevant to the Villas at Southbank project site.

Table 3 – Parking Ratios Used for Villas at Southbank

Land Use	Required Vehicle Parking	Required Bicycle Parking*
Assisted Living (Memory Care and Assisted Living)**	.41 per bed	0.05 parking spaces per bed
Senior Adult Housing (Independent Living and Guest Suites)**	.59 Parking spaces per unit	0.75 Parking spaces per unit
Financial Institution*	1 Parking space per 300 sf	1 Parking space per 1,500 sf
Dry Cleaners**	1.4 Parking space per 1,000 sf	1 Parking space per 7,500 sf, 4 min (indoor retail)
Spa (Personal Services Establishment***)	1 Parking space per 200 sf	0.3 parking space per 1,000 sf***
Quality Restaurant**	16.41 per 1,000 sf	1 parking space per 500 sf. Outdoor portion - 1 parking space per 2,000 sf
Bread/Donut/Bagel Shop without Drive-Thru Window (Café)**	9.78 per 1,000 sf	1 parking space per 500 sf

* Rates based on Tempe Parking Standards

** Rates based on ITE Parking Standards

*** Rates based on American Planning Association Parking Standards

sf - square feet

Applying the parking requirements in **Table 3** to the land use values summarized above results in the parking space requirements for the project site as shown in **Table 4**. These values specify 270 vehicle parking spaces and 151 bicycle spaces are required for the project site.



Table 4 – Parking Requirements for Villas at Southbank

USE	Vehicle Parking Ratios	Unit (Vehicle)	Total Size	Minimum Parking Spaces Needed	Bicycle Parking Ratios	Unit (Bicycle)	Minimum Bike Parking Spaces Needed
Assisted Living (Memory Care and Assisted Living)	0.41	Per Bed	89	36.49	0.05	Per Bed	4.45
Senior Adult Housing (Independent Living and Guest Suites)	0.59	Per Unit	173	102.07	0.75	Per Unit	129.75
Financial Institution	1	Per 300 sf	1,400	4.67	1	Per 1,500 sf	0.93
Dry Cleaners	1.4	Per 1,000 sf	700	0.98	1	Per 7,500 sf (4 min)	4
Spa (Personal Services Establishment)	1	Per 200 sf	3,000	15.00	0.30	Per 1,000 sf	0.90
Quality Restaurant*	16.41	Per 1,000 sf	6,150	100.92	1	Per 500 sf	9.30
Bread/Donut/Bagel Shop without Drive-Thru Window (Café)	9.78	Per 1,000 sf	1,030	10.07	1	Per 500 sf	2.06
Total				270			151

*Bike - Outdoor portion - 1 parking space per 2,000 sf (amount - 2000 sf)

sf - square feet

Shared Parking Evaluation

While the number of required vehicle parking spaces shown in **Table 3** (270) is greater than the number of parking spaces that have been proposed for the project site (187), this number is the combined total of the parking space requirements for each individual land use. The Villas at Southbank is a mixed-use senior housing development with retail, banking, and eating destinations. These ancillary services to the senior housing element of the project site are expected to be used mostly by residents; however, they will be open to the public.

Several municipal agencies in the State of Arizona, including the Cities of Tempe and Tucson, allow a reduction in the total number of required parking spaces for a mixed use development due to shared parking (interaction). Shared parking (interaction) is the concept of different businesses using the same parking space because the vehicle driver visits multiple stores after parking their vehicle. For the purposes of this parking analysis, and per City of Tempe direction, a 20%, 40%, and 60% shared parking (interaction) reduction was applied to the project site. The results of the shared parking reduction are presented in **Table 4**.

Table 5 – Shared Parking (Interaction) Reduction

USE	Minimum Parking Spaces Needed	Reduced Parking (20% Shared)	Reduced Parking (40% Shared)	Reduced Parking (60% Shared)
Assisted Living (Memory Care and Assisted Living)	37	30	23	15
Senior Adult Housing (Independent Living and Guest Suites)	103	83	62	42
Financial Institution	5	4	3	2
Dry Cleaners	1	1	1	1
Spa (Personal Services Establishment)	15	12	9	6
Quality Restaurant	101	81	61	41
Bread/Donut/Bagel Shop without Drive-Thru Window (Café)	11	9	7	5
Total	273	220	166	112

As shown in **Table 5**, the number of required parking spaces considering a 20% shared parking (interaction) reduction is 220; a 40% shared parking (interaction) reduction is 166, and a 60% shared parking (interaction) reduction equals 112 parking spaces. It is expected that more than 50% of the retail, banking, and eating traffic will be generated by residents.



Peak Parking Evaluation

Taking the parking analysis one step further, the City of Tempe suggests that a peak parking demand analysis be performed on mixed-use developments. The proposed land uses for the Villas at Southbank have distinct high parking demand times, for example a bank typically experiences its peak parking demand during the morning, while a restaurant will experience its peak parking demand in the evening.

The City of Tempe, Arizona provides peak parking demands for several land uses, including those proposed for the Villas at Southbank, in their Shared Parking Model of the their Zoning and Development Code. These peak parking demands are based on nationally agreed upon data within the Urban Land Institute guidelines. The peak parking demand percentages were applied to the reduced parking space requirements for the project site provided in **Table 5** and are summarized in **Table 6**.

As shown in **Table 6**, the required parking spaces based on the peak parking demand, in addition to taking into account shared parking (interaction) is 186 parking spaces on a weekday and 183 parking spaces on the weekend using a 20% shared parking (interaction) reduction. This is two (2) and seven (7) parking spaces, respectively, less than proposed for the site.

Table 6 – Peak Parking Demand

USE	20% Shared Parking (Interaction) Reduction		40% Shared Parking (Interaction) Reduction		60% Shared Parking (Interaction) Reduction	
	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
Villas At Southbank Nursing Home Eldery Apartments Bank Retail (inlcudes spa) Restaurant	186	183	139	137	93	90
Total	186	183	139	137	93	90

Regardless, the project site characteristics are anticipated to follow a larger shared parking (interaction) reduction than 20%. Using a value of 40% to reduce parking requirements for shared parking yields a requirement of 139 (weekday) and 137 (weekend) parking space requirement, forty-eight (48) parking spaces less than the 187 spaces to be provided.

Using a value of 60% (in line with expected operations of the project site) to reduce parking requirements for shared parking yields a requirement of 93 (weekday) and 92 (weekend) parking space requirement, ninety-four (94) parking spaces less than the 187 spaces to be provided.



Conclusion

The Villas at Southbank is a proposed mixed-use senior housing development in Tempe, Arizona. With a mix of land uses including both residential, retail and restaurant, it is expected that much of the traffic to and from this ‘non-typical’ project site will remain internal.

A project site shared parking (interaction) reduction rate was applied to the vehicle parking requirements to account for the interaction between the various businesses (customers of the development visiting more than one business on a trip to the site). An example would be picking up dry cleaning before going to the bank. With a mix of land uses including residential, retail and restaurant, it is expected that much of the traffic to and from the project site will remain internal. Due to this nature of project site and its expected land uses, a 60% shared (interaction) parking reduction rate was used, which decreased the vehicle parking space requirements to 112 (60%) parking spaces.

The proposed land uses for the Villas at Southbank also have distinct peak parking demand times (banks during the day and restaurants typically during the evening). This allows mixed-use developments to share parking spaces. A peak parking demand analysis (per City of Tempe guidelines) was performed for the project site, with the resulting parking space requirements being further reduced to 93 spaces on the weekdays and 92 parking spaces on the weekends using the 60% shared parking (interaction) reduction.

With more than 50% of the retail, banking, and eating traffic anticipated to be generated by the Villas at Southbank residents, the 187 proposed parking spaces are calculated to be adequate for the project site. Moreover, the project will be providing car and local shuttle services for residents which are expected to further decrease parking needs for the project site by limiting the need for personal vehicles.

By providing valet service it is expected that the project site can optimize on-site parking by placing vehicles on their proper floor, with the option of additional tandem parking, in turn supplying additional parking spaces to further reduce parking needs.

Based on City of Tempe and APA bicycle parking requirements, the Villas at Southbank project will need 189 bicycle parking spaces. The Villas at Southbank is proposing to construct fifty-four (54). Once again, due to the ‘senior adult’ nature of the project, it is not expected that the project site would have a large demand for bicycle use. Moreover, if the independent living and guest suites are treated similar to the assisted living land use portion of the project site, only thirty (30) bicycle spaces are required for the project site.

Using the information established within the report in regards to parking ratios (**Table 3**), a shared parking (interaction) reduction of 60% (**Table 5**), and peak parking demand for each land use, recommended parking ratios for the project site are shown in **Table 7**. The proposed ratio for multi-family (senior adult housing) includes both 1 and 2 bedroom units, guest units, along with guest parking. The proposed ratio for quality restaurant includes parking for the outdoor portion of the facility.



When used, these ratios indicate a need for 118 vehicle parking spaces as shown in **Table 8**. Approximately thirty (30) of these spaces will be reserved for onsite staff. This difference is due to the assumption that the 93 parking space total shown in **Table 6** does not assume that the peak parking utilization for each land use occurs during the same hour of the day, as shown in the peak parking demand calculations in the appendix. In contrast, the 118 total assumes that the peak utilization for each would occur all during the same hour, an assumption that is not expected to occur.

Table 7 – Calculated Parking Ratios for Villas at Southbank

Land Use	Proposed Parking	Proposed Bicycle Parking
Elder Care (Memory Care and Assisted Living)	0.17 Parking Spaces per bed	0.05 Parking Spaces per bed
Multi-Family (Senior Adult Housing - Independent Living and Guest Suites)	0.24 Parking Spaces per unit	0.05 Parking Spaces per unit
Financial Institution	1 Parking Space per 700 square feet	1 Parking Space per 1,500 square feet*
Dry Cleaners	1 Parking Space per 700 square feet	1 Parking space per 7,500 square feet, 4 min
Spa (Personal Services Establishment)	1 Parking Space per 500 square feet	1 Parking Space per 3,333 square feet***
Quality Restaurant	1 Parking Space per 136.61 square feet	1 Parking Space per 500 square feet
Bread/Donut/Bagel Shop without Drive-Thru Window (Café)	1 Parking Space per 136.61 square feet	1 Parking Space per 500 square feet

* Rates based on Tempe Parking Standards

**Rates based on ITE Parking Standards

*** Rates based on American Planning Association Parking Standards

Table 8 – Calculated Parking Ratios and Parking Spaces for Villas at Southbank

USE	Vehicle Parking Ratios	Unit (Vehicle)	Total Size	Minimum Parking Spaces Needed	Bicycle Parking Ratios	Unit (Bicycle)	Minimum Bike Parking Spaces Needed
Elder (Memory Care and Assisted Living)	0.17	Per Bed	89	15.13	0.05	Per Bed	4.45
Multi-Family (Senior Adult Housing - Independent Living and Guest Suites - includes 1 and 2 bedroom units, guest units, and guest parking)	0.24	Per Unit	173	41.52	0.05	Per Unit	8.65
Guest Parking (See Multi-Family)							
Financial Institution	1	Per 700 sf	1,400	2.00	1	Per 1,500 sf	0.93
Dry Cleaners	1	Per 700 sf	700	1.00	1	Per 7,500 sf (4 min)	4
Spa (Personal Services Establishment)	1	Per 500 sf	3,000	6.00	1.00	Per 3,333 sf	0.90
Quality Restaurant* (includes indoor portion of facility)	1	Per 137 sf	6,150	44.89	1	Per 500 sf	9.30
Outside Restaurant (See Quality Restaurant)							
Bread/Donut/Bagel Shop without Drive-Thru Window (Café)	1	Per 137 sf	1,030	7.52	1	Per 500 sf	2.06
			Total	118			30

*Bike - Outdoor portion - 1 parking space per 2,000 sf (amount - 2000 sf)

sf - square feet

VILLAS AT SOUTHBANK
PARKING ANALYSIS

Time	Peak Parking Demands (Weekday)						ZONE 1						Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Eldery Apts	Retail	Bank	Restaurant	Nursing Home	Spa	Eldery Apts				
7:00	8%	2%	20%	8%	100%	1	5	112	37	15	103	273				
8:00	18%	63%	5%	18%	90%	0	3	2	18	2	74	101				
9:00	42%	93%	10%	100%	85%	0	4	9	30	5	70	118				
10:00	68%	100%	20%	68%	80%	1	4	18	30	8	66	126				
11:00	87%	100%	30%	100%	70%	1	4	27	30	10	58	129				
12:00	97%	90%	50%	97%	70%	1	4	45	30	12	58	148				
1:00	100%	90%	70%	100%	70%	1	4	63	30	12	58	166				
2:00	97%	97%	60%	100%	97%	1	4	54	30	12	58	157				
3:00	95%	93%	60%	100%	70%	1	4	54	30	11	58	157				
4:00	87%	77%	50%	100%	75%	1	3	45	30	10	62	150				
5:00	79%	47%	70%	100%	85%	1	2	63	30	9	70	174				
6:00	82%	23%	90%	50%	90%	1	1	81	15	10	74	181				
7:00	89%	7%	100%	20%	95%	1	0	90	6	11	78	185				
8:00	87%	7%	100%	20%	95%	1	0	90	6	10	78	185				
9:00	61%	3%	100%	20%	100%	0	0	90	6	7	82	186				
10:00	32%	3%	90%	20%	100%	0	0	81	6	4	82	173				
11:00	13%	0%	70%	20%	100%	0	0	63	6	2	82	153				
12:00	0%	0%	50%	20%	100%	0	0	45	6	0	82	133				
								Peak Marking Demand				186				

Time	Peak Parking Demands (Saturday)						ZONE 1						Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Eldery Apts	Retail	Bank	Restaurant	Nursing Home	Spa	Eldery Apts				
7:00	3%	7%	2%	20%	3%	0	5	112	37	15	103	273				
8:00	10%	20%	3%	25%	10%	0	1	3	7	1	74	86				
9:00	30%	25%	6%	50%	30%	0	1	5	15	4	70	95				
10:00	45%	25%	8%	50%	45%	0	1	7	15	5	66	95				
11:00	73%	35%	10%	50%	73%	1	1	9	15	9	58	92				
12:00	85%	35%	30%	50%	85%	1	1	27	15	10	58	112				
1:00	95%	30%	45%	50%	95%	1	1	40	15	11	58	126				
2:00	100%	20%	45%	50%	100%	1	1	40	15	12	58	126				
3:00	100%	15%	45%	50%	100%	1	1	40	15	12	58	126				
4:00	90%	15%	45%	50%	75%	1	1	40	15	11	62	129				
5:00	75%	5%	60%	50%	75%	1	0	54	15	9	70	148				
6:00	65%	2%	90%	30%	65%	1	0	81	9	8	74	172				
7:00	60%	2%	100%	20%	60%	0	0	85	6	7	78	177				
8:00	55%	0%	100%	20%	55%	0	0	90	6	7	78	181				
9:00	40%	0%	100%	20%	40%	0	0	90	6	5	82	183				
10:00	38%	0%	95%	20%	38%	0	0	85	6	5	82	178				
11:00	13%	0%	85%	20%	13%	0	0	76	6	2	82	166				
12:00	0%	0%	70%	20%	0%	0	0	63	6	0	82	151				
								Peak Marking Demand				183				

NOTES:
The peak parking demand is per the City of Tempe (which is based on the Urban Land Institute guidelines).
A 20% reduction in the parking demand was taken to account for parking interaction (multiple store visits on one vehicle trip to the site, which requires only one parking space).

VILLAS AT SOUTHBANK
PARKING ANALYSIS

Time	Peak Parking Demands (Weekday)					ZONE 1					Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Retail	Bank	Restaurant	Nursing Home	Spa				
7:00	8%	2%	20%	8%	100%	1	5	112	37	15	103	273		
8:00	18%	63%	5%	18%	90%	0	1	1	4	1	62	69		
9:00	42%	93%	10%	100%	85%	0	3	7	22	4	53	88		
10:00	68%	100%	20%	100%	80%	0	3	13	22	6	49	95		
11:00	87%	100%	30%	100%	70%	1	3	20	22	8	43	97		
12:00	97%	90%	50%	100%	70%	1	3	34	22	9	43	111		
1:00	100%	90%	70%	100%	70%	1	3	47	22	9	43	125		
2:00	97%	97%	60%	100%	97%	1	3	40	22	9	43	118		
3:00	95%	93%	60%	100%	70%	1	3	40	22	9	43	118		
4:00	87%	77%	50%	100%	75%	1	2	34	22	8	46	113		
5:00	79%	47%	70%	100%	85%	0	1	47	22	7	53	131		
6:00	82%	23%	90%	50%	90%	0	1	60	11	7	56	136		
7:00	89%	7%	100%	20%	95%	1	0	67	4	8	59	139		
8:00	87%	7%	100%	20%	87%	1	0	67	4	8	59	139		
9:00	61%	3%	100%	20%	100%	0	0	67	4	5	62	139		
10:00	32%	3%	90%	20%	100%	0	0	60	4	3	62	130		
11:00	13%	0%	70%	20%	100%	0	0	47	4	1	62	115		
12:00	0%	0%	50%	20%	100%	0	0	34	4	0	62	100		
								Peak Marking Demand				139		

Time	Peak Parking Demands (Saturday)					ZONE 1					Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Retail	Bank	Restaurant	Nursing Home	Spa				
7:00	3%	7%	2%	20%	3%	1	5	112	37	15	103	273		
8:00	10%	20%	3%	25%	10%	0	0	1	6	0	62	68		
9:00	30%	25%	6%	50%	30%	0	1	4	11	1	56	65		
10:00	45%	25%	8%	50%	45%	0	1	5	11	3	53	71		
11:00	73%	35%	10%	50%	73%	0	1	7	11	4	49	71		
12:00	85%	35%	30%	50%	85%	1	1	20	11	7	43	69		
1:00	95%	30%	45%	50%	95%	1	1	30	11	8	43	84		
2:00	100%	20%	45%	50%	100%	1	1	30	11	9	43	95		
3:00	100%	15%	45%	50%	100%	1	0	30	11	9	43	95		
4:00	90%	15%	45%	50%	90%	1	0	30	11	8	46	97		
5:00	75%	5%	60%	50%	75%	0	0	40	11	7	53	111		
6:00	65%	2%	90%	30%	65%	0	0	60	7	6	56	129		
7:00	60%	2%	95%	20%	60%	0	0	64	4	5	59	133		
8:00	55%	0%	100%	20%	55%	0	0	67	4	5	59	136		
9:00	40%	0%	100%	20%	40%	0	0	67	4	4	62	137		
10:00	38%	0%	95%	20%	38%	0	0	64	4	3	62	134		
11:00	13%	0%	85%	20%	13%	0	0	57	4	1	62	125		
12:00	0%	0%	70%	20%	0%	0	0	47	4	0	62	113		
								Peak Marking Demand				137		

NOTES:
The peak parking demand is per the City of Tempe (which is based on the Urban Land Institute guidelines).
A 40% reduction in the parking demand was taken to account for parking interaction (multiple store visits on one vehicle trip to the site, which requires only one parking space).

VILLAS AT SOUTHBANK
PARKING ANALYSIS

Time	Peak Parking Demands (Weekday)					ZONE 1					Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Retail	Bank	Restaurant	Nursing Home	Spa				
7:00	8%	2%	20%	8%	100%	1	5	112	37	15	103	273		
8:00	18%	63%	5%	18%	90%	0	0	1	3	0	41	46		
9:00	42%	93%	10%	100%	85%	0	2	4	15	3	35	59		
10:00	68%	100%	20%	100%	80%	0	2	9	15	4	33	63		
11:00	87%	100%	30%	100%	70%	0	2	13	15	5	29	65		
12:00	97%	90%	50%	100%	70%	0	2	22	15	6	29	74		
1:00	100%	90%	70%	100%	70%	0	2	31	15	6	29	83		
2:00	97%	97%	60%	100%	97%	0	2	27	15	6	29	79		
3:00	95%	93%	60%	100%	70%	0	2	27	15	6	29	78		
4:00	87%	77%	50%	100%	75%	0	2	22	15	5	31	75		
5:00	79%	47%	70%	100%	85%	0	1	31	15	5	35	87		
6:00	82%	23%	90%	50%	90%	0	0	40	7	5	37	91		
7:00	89%	7%	100%	20%	95%	0	0	45	3	5	39	93		
8:00	87%	7%	100%	20%	87%	0	0	45	3	5	39	93		
9:00	61%	3%	100%	20%	100%	0	0	45	3	4	41	93		
10:00	32%	3%	90%	20%	100%	0	0	40	3	2	41	87		
11:00	13%	0%	70%	20%	100%	0	0	31	3	1	41	76		
12:00	0%	0%	50%	20%	100%	0	0	22	3	0	41	67		
								Peak Marking Demand				93		

Time	Peak Parking Demands (Saturday)					ZONE 1					Eldery Apts	Spa	Eldery Apts	Combined
	Retail	Bank	Restaurant	Nursing Home	Spa	Retail	Bank	Restaurant	Nursing Home	Spa				
7:00	3%	7%	2%	20%	3%	1	5	112	37	15	103	273		
8:00	10%	20%	3%	25%	10%	0	0	1	4	0	41	45		
9:00	30%	25%	6%	50%	30%	0	1	3	7	2	35	48		
10:00	45%	25%	8%	50%	45%	0	1	4	7	3	33	47		
11:00	73%	35%	10%	50%	73%	0	1	4	7	4	29	46		
12:00	85%	35%	30%	50%	85%	0	1	13	7	5	29	56		
1:00	95%	30%	45%	50%	95%	0	1	20	7	6	29	63		
2:00	100%	20%	45%	50%	100%	0	0	20	7	6	29	63		
3:00	100%	15%	45%	50%	100%	0	0	20	7	6	29	63		
4:00	90%	15%	45%	50%	90%	0	0	20	7	5	31	65		
5:00	75%	5%	60%	50%	75%	0	0	27	7	5	35	74		
6:00	65%	2%	90%	30%	65%	0	0	40	4	4	37	86		
7:00	60%	2%	95%	20%	60%	0	0	43	3	4	39	89		
8:00	55%	0%	100%	20%	55%	0	0	45	3	3	39	90		
9:00	40%	0%	100%	20%	40%	0	0	45	3	2	41	92		
10:00	38%	0%	95%	20%	38%	0	0	43	3	2	41	89		
11:00	13%	0%	85%	20%	13%	0	0	38	3	1	41	83		
12:00	0%	0%	70%	20%	0%	0	0	31	3	0	41	76		
								Peak Marking Demand				92		

NOTES:
The peak parking demand is per the City of Tempe (which is based on the Urban Land Institute guidelines).
A 60% reduction in the parking demand was taken to account for parking interaction (multiple store visits on one vehicle trip to the site, which requires only one parking space).





AMENDED PLANNED AREA DEVELOPMENT OVERLAY FOR VILLAS AT SOUTHBANK

PORTION OF THE NORTHWEST QUARTER OF SECTION 14, TOWNSHIP 1 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA
1122 EAST VISTA DEL LAGO
TEMPE, AZ

ACKNOWLEDGEMENT

STATE OF ARIZONA)
COUNTY OF MARICOPA) SS
ON THIS, THE _____ DAY OF _____, 2012, BEFORE ME, _____, WHO ACKNOWLEDGED _____, HASSET/HERSELF TO BE THE AUTHORIZED AGENT OF _____ CORPORATION, AND ACKNOWLEDGED THE HE/SHE, AS SUCH OFFICER, BEING DULY AUTHORIZED SO TO DO, EXECUTED THE FOREGOING INSTRUMENT FOR THE PURPOSES CONTAINED THEREIN.
IN WITNESS WHEREOF:
I HEREBY SET MY HAND AND OFFICIAL SEAL:

DATE: _____
NOTARY PUBLIC
MY COMMISSION EXPIRES: _____

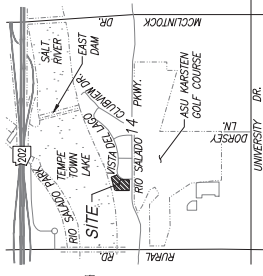
LEGAL DESCRIPTION

PER 202 - AMENDED AS DESCRIBED IN BOOK 843 AT PAGE 46, MARICOPA COUNTY RECORDERS OFFICE, MARICOPA COUNTY, ARIZONA

OWNER
MOT DEVELOPMENT PARTNERS, LLC
41607 NORTH PINNAC HILLS COURT
TEMPE, ARIZONA 85284
CONTACT: JIM MITCHELL

LOT #	PHASE ONE					SUBTOTAL	PARKING RATIO
	1	9	6	5	4		
1	3.10	3.60	3.14	2.78	1.20	14.02	
2	2.22	2.46	2.34	1.70	0.52	9.26	
3	28.44	29	29	35	35	135	
4	188-6"	308-6"	291-6"	251-6"	233-6"		
5	151-4"	281-4"	51-0"	351-1"	441-0"		
6	371-0"	161-0"	801-4"	181-0"	251-0"		
7	371-0"	231-0"	311-0"	341-1"	221-0"		
8	371-0"	301-0"	221-6"	201-4"	211-1"		
9	418.50	630.80	572.90	373.50	137.50	2,088.20	
10	195	384	302	-	79	679	DTY 1.75/MS
11	184	672	539	-	138	1,333	MFC 1.25/MS
12	194	770	559	-	146	1,610	MFC 1.25/MS
13	230	-	-	-	-	230	DTY 3.13/MS
14	786	-	-	-	-	786	MFC 3.25/MS
15	771	-	-	-	-	771	MFC 3.25/MS
16	17	13	15	7	-	52	DTY 3.13/MS
17	57	43	50	25	-	175	MFC 3.06/MS
18	52	40	46	23	-	161	MFC 3.25/MS
19	-	-	-	285	-	285	DTY 1.00/MS
20	-	-	-	285	-	285	MFC 3.25/MS
21	-	-	-	141	-	141	MFC 3.25/MS
22	-	-	-	20	-	20	DTY 6.00/MS
23	-	-	-	156	-	156	MFC 4.29/MS
24	-	-	-	86	-	86	MFC 4.29/MS
25	7	15	5	17	-	44	DTY 11.13/MS
26	53	200	68	220	-	581	MFC 8.36/MS
27	65	140	47	154	-	407	MFC 8.36/MS
28	-	-	-	15	-	15	DTY 6.00/MS
29	-	-	-	29	-	29	MFC 1.96/MS
30	1,100	915	647	606	138	3,606	
31	1,082	891	652	433	146	3,204	
32	1,124	1,077	680	565	146	3,592	
33	108	84	100	78	20	390	
34	24	162	37	(24)	6	(14)	
35	42	186	28	132	(6)	388	
36	2	2	2	2	2	10	
37	3	3	2	3	2	13	

*RATES BASED ON TEMPE PARKING STANDARDS
**RATES BASED ON THE PARKING STANDARDS
***RATES BASED ON AMERICAN PLANNING ASSOCIATION PARKING STANDARDS



CONDITIONS OF APPROVAL: PAD 07003

- THE PLANNED AREA DEVELOPMENT OVERLAY FOR PER 202 SHALL BE PAID INTO PROPER ENGINEERED FORMAT WITH APPROPRIATE MAPS AND RECORDS TO BE FILED WITH THE COUNTY RECORDS DEPARTMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
- THE PAD OF PER 202 SHALL ADHERE TO SETBACK REQUIREMENTS FOR FLOOD CONTROL, INCLUDING THE TOWN LAKE ARE-CIRCULATION WELL EASEMENTS, PURSUANT TO SECTION 5-104 OF THE ZONING AND DEVELOPMENT CODE.
- A SUBDIVISION PLAT/CONDOMINIUM PLAT IS REQUIRED FOR THIS DEVELOPMENT. THE SUBDIVISION PLAT SHALL REQUIRE THE ESTABLISHMENT OF A 25' EASEMENT FOR WASTEWATER PIPELINE THROUGH THE EAST END OF THE SITE.
- A PARKING AFFIDAVIT SHALL BE FILED WITH THE DEVELOPMENT AFFIDAVIT. THE AFFIDAVIT SHALL BE SUPPORTED BY THE INTERVIEW OF PROPOSED USERS REQUIRING ADDITIONAL SUPPORT BY THE PARKING ANALYSIS. A REVISED PARKING MODEL SHALL BE SUBMITTED.
- SHALL BE PROVIDED FOR RESERVATION USE SHALL RESERVE MINIMUM PARKING SPACES FOR THE RESERVATION TENANTS. DISTRIBUTION OF PARKING ALLOCATION SHALL BE DETERMINED WITHIN THE CONDOMINIUM CORP'S.

APPROVAL

BY: _____
DATE: _____
DEVELOPMENT SERVICES

1840 S. Shiloh Dr.
Mesa, AZ 85204
Tel: 480.822.3213
www.hubbardengineering.com

PAD COVER SHEET
VILLAS AT SOUTHBANK
THIS IS A PORTION OF THE PROJECTS QUARTERS OF SECTION 14, TOWNSHIP 1 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, CITY OF TEMPE, ARIZONA

City of Tempe
1400 S. Mill Ave.
Tempe, AZ 85281-1100

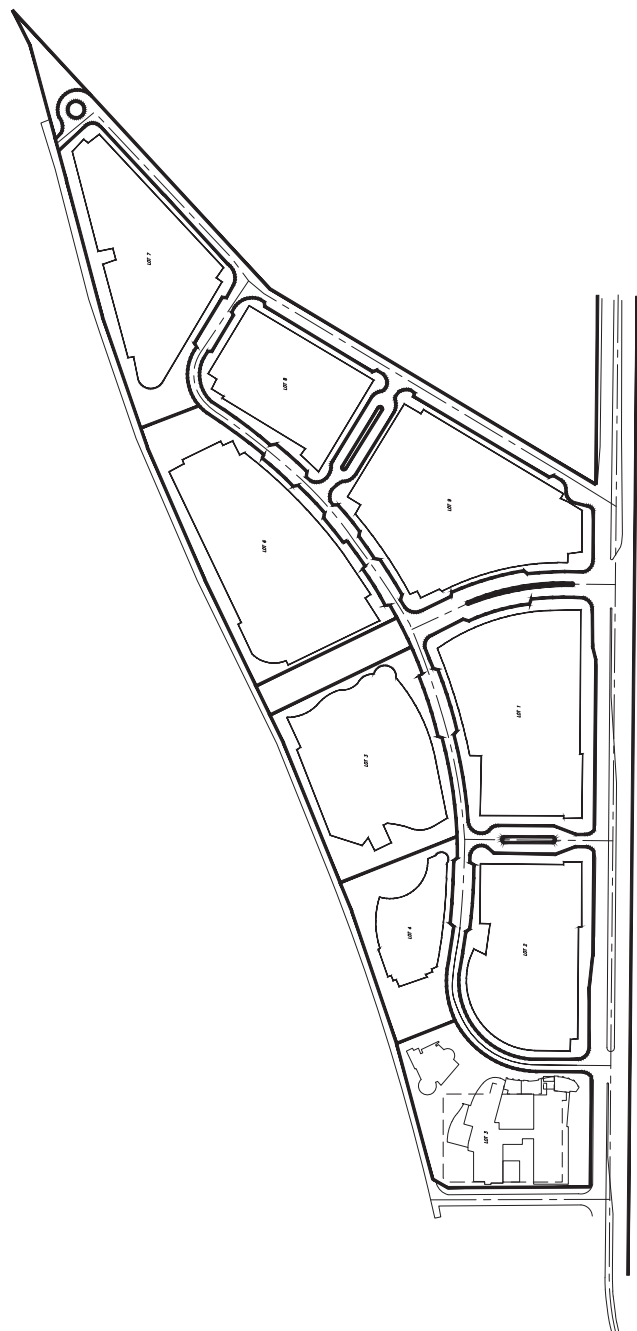
Project No.	12103
Project Mgr	G. Millett P.E.
Date	4/4/12
Sheet	1 OF 2

SHEET: 2 OF 2	
Project No.	12103
Date	4/4/12
Project Mgr	B. KITCHEN
Project Eng.	G. MILLETT P.E.

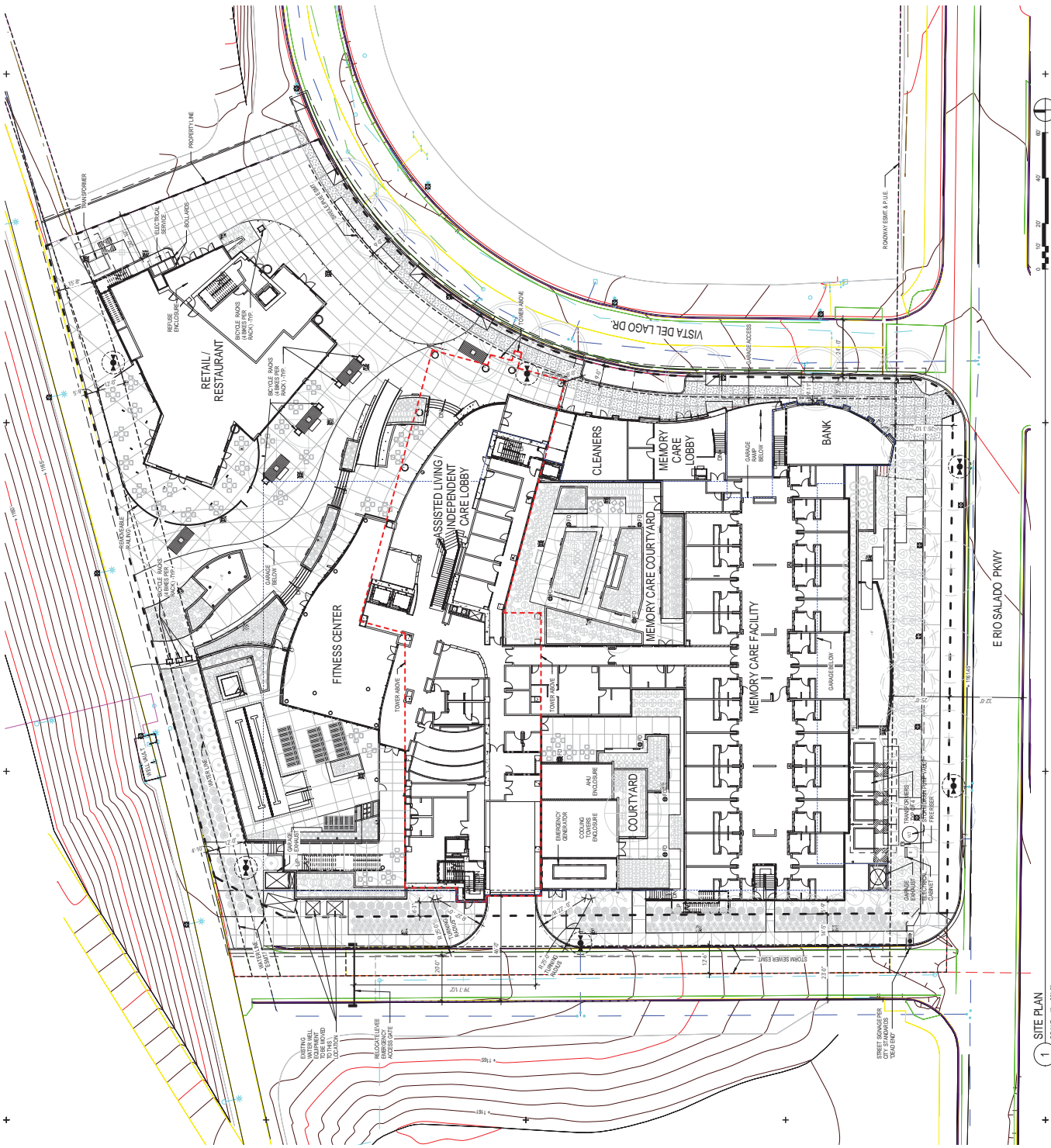
Call for more info:
 480.252.1100
 480.252.1100
 www.hubbardengineering.com

PAD EXHIBIT
VILLAS AT SOUTHBANK
THIS IS A PORTION OF THE NORTHWEST QUARTER OF SECTION 24
 TOWNSHIP 4 NORTH, RANGE 6 EAST OF THE CLARK MOUNTAIN
 BASE AND MOUNTAIN, MARICOPA COUNTY, CITY OF TEMPE, ARIZONA

HUBBARD ENGINEERING
 www.hubbardengineering.com
 1840 S. SHIPPY DR.
 SUITE 107
 MESA, AZ 85004
 PH: 480.822.3313



ALL DESIGN, DIMENSIONS AND PLANS INDICATED ON THIS DRAWING ARE OWNED BY AND THE PROPERTY OF CARRIER JOHNSON. NO PART OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF CARRIER JOHNSON. FILING THIS DRAWING DOES NOT CONSTITUTE AN ENDORSEMENT OR A GUARANTEE OF THE ACCURACY OF THE INFORMATION CONTAINED HEREIN. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



- THE VILLAS AT SOUTH BANK @ ASU PROJECT DATA**
- A. SUBMITTED BY: MDT DEVELOPMENT PARTNERS, LLC
4180 NORTH PHOENIX HILLS COURT
ARIZONA 85008
PHONE: 602.491.4333
CONTACT: JIM MITCHELL, PRESIDENT
 - B. PROJECT NAME: THE VILLAS AT SOUTH BANK
 - C. SITE ADDRESS: 1122 EAST VISTA DEL LAGO DR.
TEMPE, ARIZONA 85281
 - D. SCOPE OF WORK:
 - 1. TANDEN PARKING
 - E. USE PERMITS:
 - 1. TANDEN PARKING
 - F. LOCATION MAP: REFER TO VICINITY MAP BELOW
 - G. BAR SCALE & NORTH ARROW: REFER TO SITE PLAN
 - H. LEGAL DESCRIPTION:
 - LOT #1, PIER 202 - AMENDED ACCORDING TO BOOK 48 OF MAPS, PAGE 48, RECORDS OF MARICOPA COUNTY, ARIZONA.
 - I. PROPERTY LINES, EASEMENTS AND SET BACKS, FULLY DIMENSIONED: REFER TO SITE PLAN
 - J. PARCEL SIZE: 86,958 SQ. FT. (2.226 ACRES)
PARCEL APN: 182-22-017
 - K. GENERAL PLAN 2020 PROPOSED LAND USE & PROJECTED DENSITY: LIVE/WORK/AMENITY USE
HIGH DENSITY (1 > 100 per acre)
 - L. ZONING: MU-4 (PDU) - RIO SALADO OVERLAY DISTRICT
 - M. BUILDING AREA:
 - 98,748 CSF (INCLUDES SUBTERRANEAN PARKING)
 - PERCENTAGE OF LOT COVERAGE: 42.7%
 - HEIGHT OF BUILDING: 71' (TO TOP OF MECH. SCREEN WALL)
 - NUMBER OF STORIES: 11 (8 SUBTERRANEAN + 2 SUBTERRANEAN)
 - N. TYPE OF CONSTRUCTION:
 - 1A. MAIN BUILDING: 88 - 2 STORY RETAIL BUILDING TO BE PROVIDED AT BOTH BUILDINGS
 - O. AUTOMATIC FIRE SUPPLYING SYSTEM PER CITY OF TEMPE BC:

MEMORY CARE	24
STUDIOS	04
GUEST UNITS	04
STUDIOS	25
1 BR. IBA	15
2 BR. IBA	55
2 BR. 2BA	10
TOTAL # OF UNITS	262
 - P. RESIDENTIAL DENSITY:
 - 262/2,226 = 117
 - Q. PARKING FOR MOTOR VEHICLES AND BICYCLES:
 - PROVIDED 30 AT GRADE & 17 AT PARKING GARAGE
 - REFER TO SCHEDULE B FOR MORE DETAILS
 - REFER TO LEVEL 1H FOR PROVIDED PARKING SUMMARY
 - R. LANDSCAPE AREA ON SITE:
 - OVERALL SITE AREA: 96,995 SQ. FT.
 - 16,716 SQ. FT. (Percentage of Overall Site - 17.2%)
 - SITE LANDSCAPE AREA: 38,610 SQ. FT. (Percentage of Overall Site - 39.8%)
 - INTERIOR COURTYARD LANDSCAPE: 3,493 SQ. FT.
 - INTERIOR COURTYARD LANDSCAPE: 4,200 SQ. FT. (Does not include Interior Courtyards)
 - S. FIRE HYDRANT: REFER TO SITE PLAN, AN
 - T. REFUSE ENCLOSURES: REFER TO SITE PLAN
 - U. STREET DIMENSIONS: REFER TO SITE PLAN
 - V. STORMDRAINS, SEWER LINES, WATER LINES, FIRE DEPT. CONNECTION, AND PROGRAMS: REFER TO ONE PLAN
 - W. PROPOSED RETENTION AREA FOR 100 YEAR, ONE HOUR STORM: REFER TO CIVIL ENGINEERS LETTER
 - X. BIKE RACKS NEAR MAIN BUILDING ENTRANCE: REFER TO SITE PLAN

THE VILLAS AT SOUTH BANK
1122 EAST VISTA DEL LAGO, TEMPE, ARIZONA 85281

04/20/2019 REVISION PLANNING SUBMITTAL
03/05/2019 REVISION PLANNING SUBMITTAL
02/15/2019 PRELIMINARY SITE REVIEW

ISSUES:
PRELIMINARY NOT FOR CONSTRUCTION

PROJECT NO.:
SHEET NO.:
DATE: 04/20/2019 12:54:00 PM

DRAWN BY: CHAMP
CHECKED BY: CHAMP

SITE PLAN

SA1.0

DRAWING NO.:

VICINITY MAP

ATTACHMENT 28
 SCALE: 1" = 20'-0"
 1 SITE PLAN

carrierjohnson
 architecture for urban environments
 1301 third avenue san dego ca 92101
 phone 619.239.2353 | fax 619.239.6227



PROJECT NO.:
 SHEET NO.:
 DATE: 4/19/12 3:45:39 PM
 DRAWN BY: CHAMP
 CHECKED BY: CHAMP

B1 LEVEL FLOOR PLAN

DRAWING NO.:
SA2.B1

REFUSE COLLECTION APPROACH:

The Villas at SouthBank is a uniquely programmed Senior Living Experience consisting of 262 luxury living units based upon a Signature "On Campus Senior Living Environment" model. The residents will enjoy a number of lifestyle options ranging from Independent Care (IC) to Assisted Living (ALF), and secured Memory Care (ALZ). All resident regardless of which option best fits their needs will have full access to all amenities. Coupled with this truly unique program is a host of supportive retail venues designed to enhance the lifestyle of our residents and the neighboring community and campus, banking facilities, 24 hour resident valet parking, Day Spa and Salon with a full array of services, Coffee and Bakery retail, Dry Cleaner, 5-star lakefront dining, and a fitness facility that is dedicated to senior living.

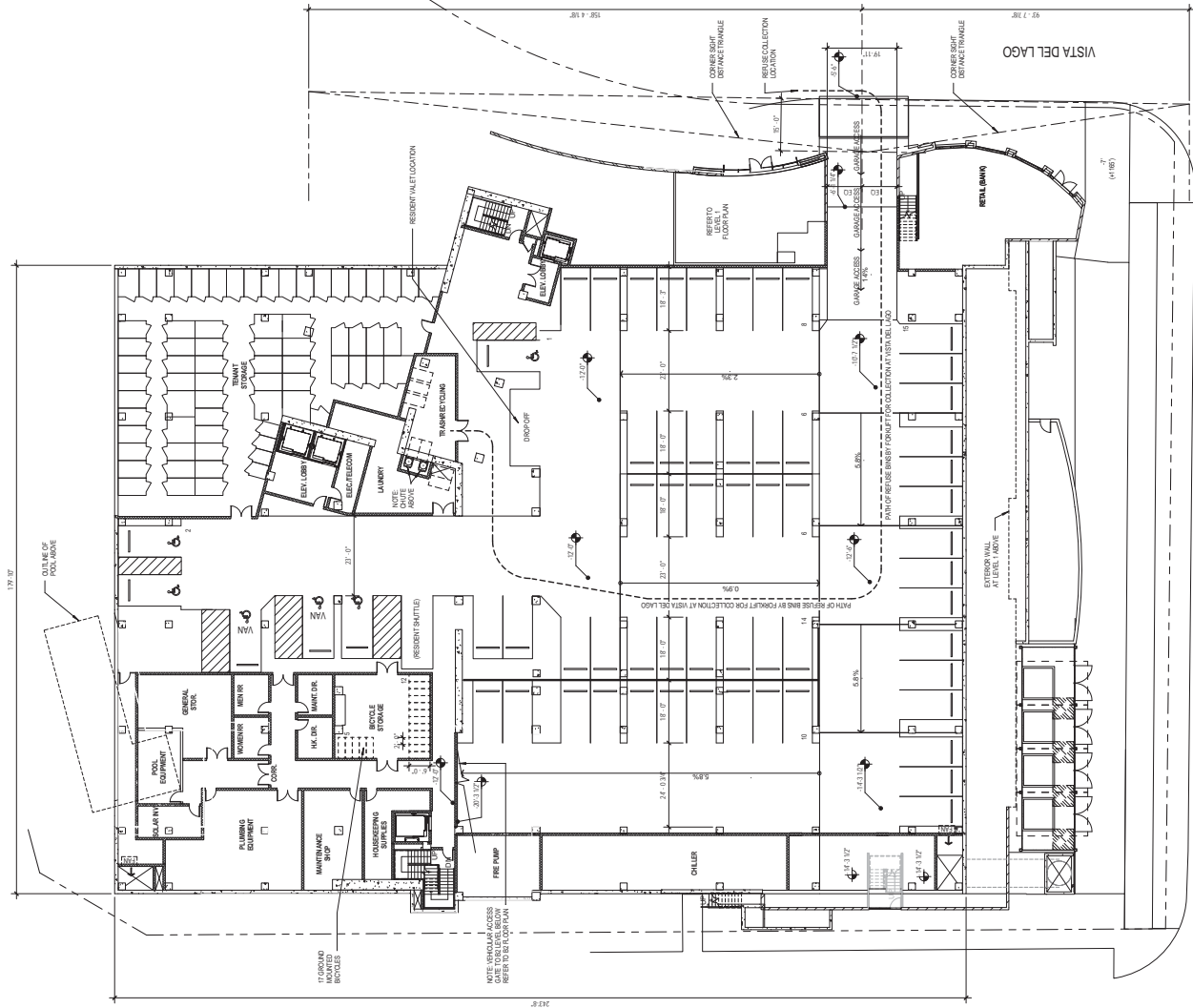
While this project is primarily residential, it does contain several commercial uses and is created more as a commercial facility rather than purely residential. As such the refuse recycle / collection plan is based on using a commercial refuse collection company that serves the area such as Waste Management or other to assist with the disposal. Due to the unique mixed-use environment and site limitations, the garbage / refuse collection will require an alternative approach as subsequently outlined.

The ASU Villas at South Bank residential refuse will be handled via the trash room and chute that is centrally located in the tower structure. The trash chute is vertically connected at all floors and terminates in the trash / recycling room at the B-1 level and noted on the plan as room B104. All other areas of the building with the exception of the ancillary Retail / Restaurant building will also utilize the trash chute and the B-1 level trash / recycling room. The refuse would then be collected, sorted to separate recyclable materials from other waste, compacted and placed into larger transportable trash bins for collection within the B-1 level trash / recycling room. While it would be optimum to have access to the loading / service dock from the trash / recycle room, the slope of the site and the building layout does not allow this to be achievable. As such, the waste bins for collection would be handled by the building operator via forklift and brought to the parking garage entry for collection by the collection service provider. The timing of the waste bin collection would be closely coordinated with the refuse collection company for removal from the site. It is envisioned that the timing of this would be early morning and that the frequency would need to be monitored and adjusted as the building population increases or changes over time. Please reference the attached plan for further information on layout and location.

PARKING SUMMARY (PROVIDED)

LEVEL	VEHICULAR				TOTAL
	HC VAN	HC	STANDARD	TANDEM	
STREET	0	0	0	0	0
B1	2	4	56	0	62
B2 (VALET)	0	0	50	75	125
TOTAL	2	4	106	75	187

LEVEL	BICYCLE		TOTAL
	STREET	TOTAL	
STREET	0	36	36
B1	0	17	17
B2	0	0	0
TOTAL	0	53	53



1 B1 LEVEL FLOOR PLAN
 SCALE: 1/16" = 1'-0"

ATTACHMENT 31

1301 THIRD AVENUE SAN DEGO CA 92101
 phone 619.239.2353 | fax 619.239.8277

carrierjohnson
 architecture for urban environments

**THE VILLAS AT
 SOUTHBANK**
 1122 EAST VISTA
 DEL LAGO, TEMPE,
 ARIZONA 85281

04/03/2012 REVISED PLANNING SUBMITTAL
 03/06/2012 PLANNING SUBMITTAL
 02/13/2012 PRELIMINARY SITE REVIEW

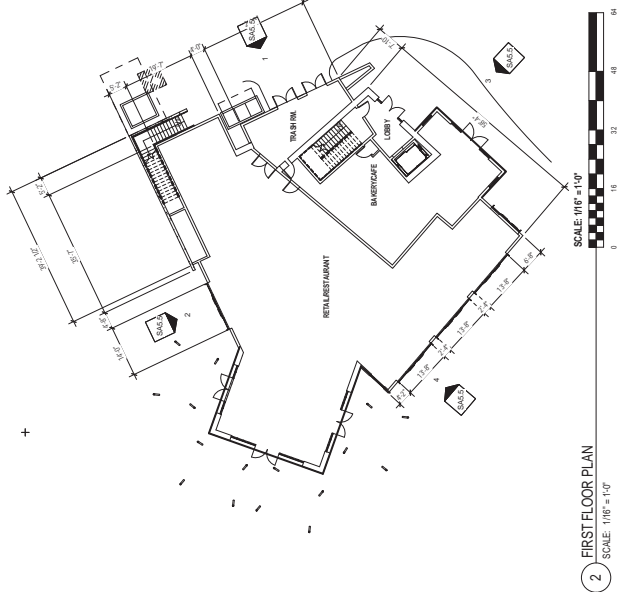
ISSUES:
 PRELIMINARY NOT FOR CONSTRUCTION



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 CARRIE J. DESIGN
 CHECKED BY:
 CARRIE J. DESIGN
 DATE:
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 TITLE:

FIRST FLOOR
 PLAN

DRAWING NO.:
SA2.1



0 10 20 30 40 50
 SCALE: 1/16" = 1'-0"

ATTACHMENT 32

1301 third avenue san diego ca 92101
 phone 619.239.2353 | fax 619.239.6227

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**THE VILLAS AT
 SOUTHBANK**
 1122 EAST VISTA
 DEL LAGO, TEMPE,
 ARIZONA 85281

04/03/2012 REVISED PLANNING SUBMITTAL
 03/06/2012 PLANNING SUBMITTAL
 02/13/2012 PRELIMINARY SITE REVIEW

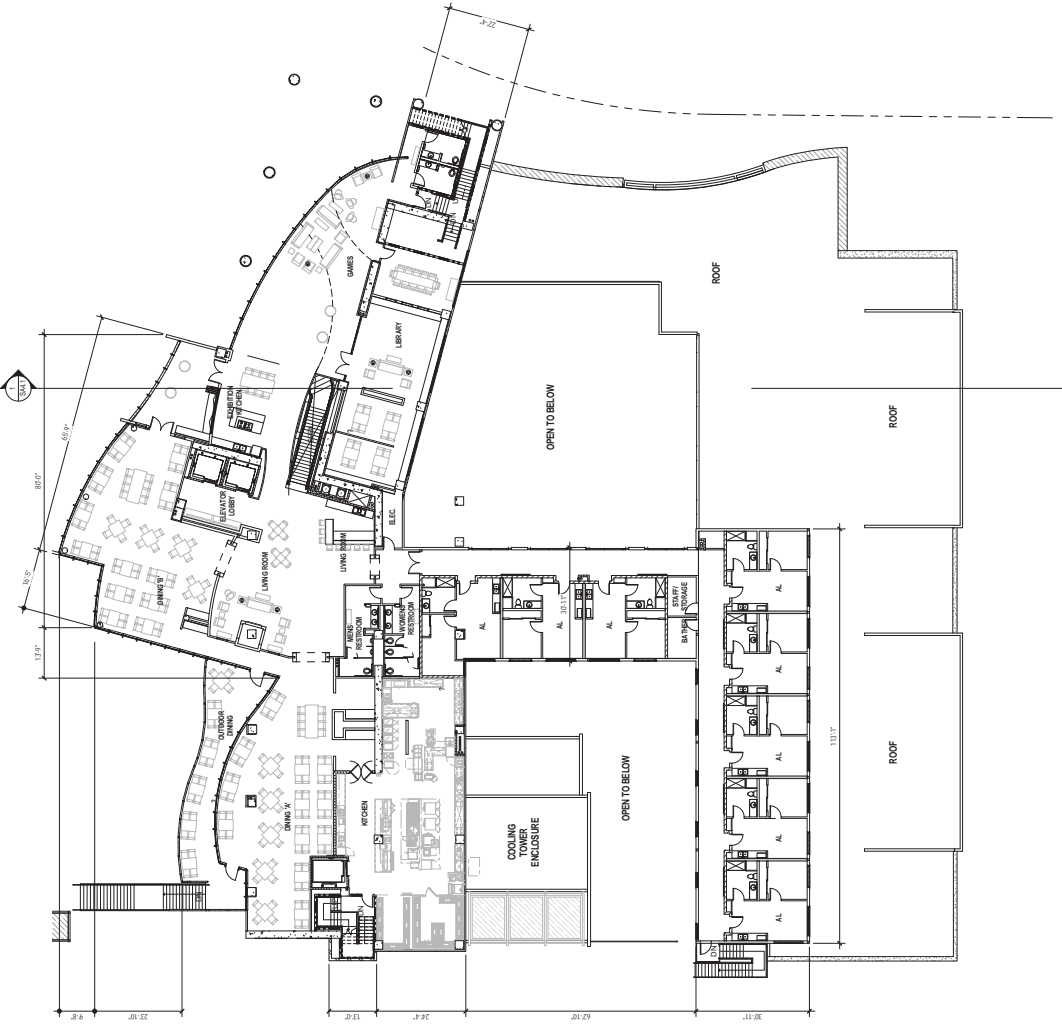
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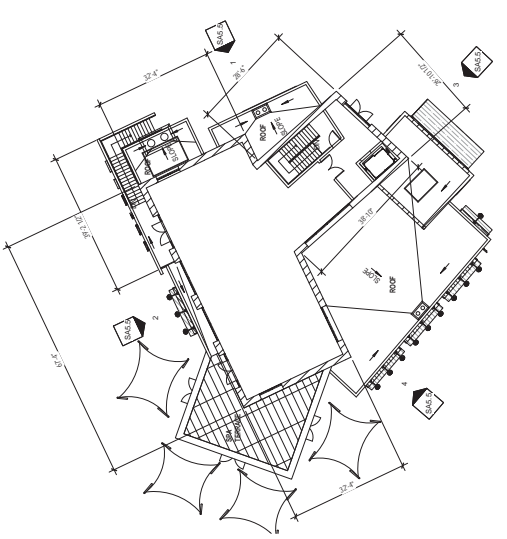
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 DATE: 02/13/2012
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SECOND
 FLOOR PLAN

DRAWING NO.:
SA2.2



1 LEVEL TWO FLOOR PLAN
 SCALE: 1/16" = 1'-0"



2 RETAIL BUILDING SECOND FLOOR PLAN
 SCALE: 1/16" = 1'-0"

**THE VILLAS AT
 SOUTHBANK**
 1122 EAST VISTA
 DEL LAGO, TEMPE,
 ARIZONA 85281

04/03/2012 REISED PLANNING SUBMITTAL
 03/06/2012 PLANNING SUBMITTAL
 02/13/2012 PRELIMINARY SITE REVIEW
 ISSUES:
 PRELIMINARY NOT FOR CONSTRUCTION



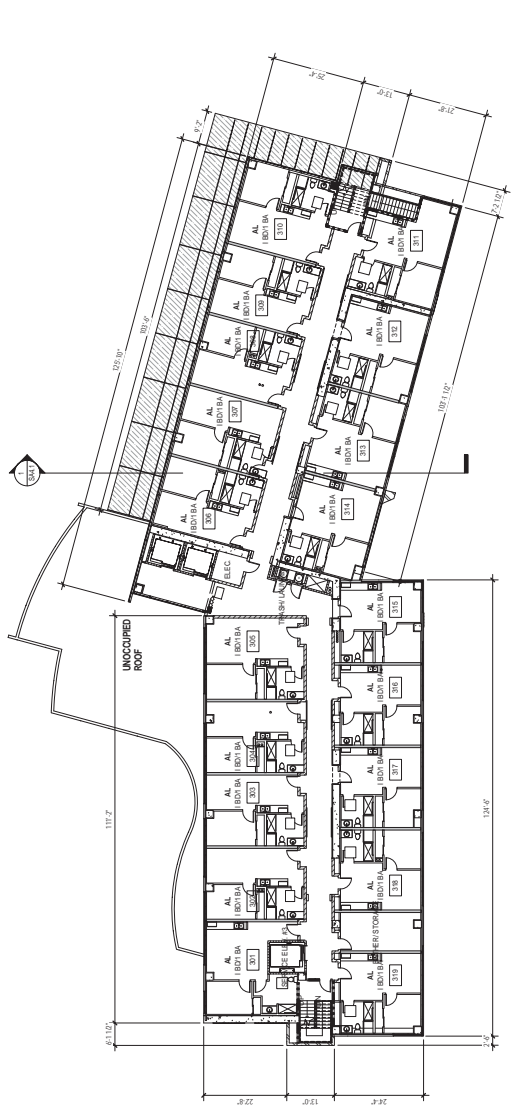
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**THIRD - FIFTH
 FLOOR PLANS**

DRAWING NO.:
SA2.3



2 LEVEL FOUR FLOOR PLAN (LEVEL 5 SIM.)
 SCALE: 1/16" = 1'-0"



1 LEVEL THREE FLOOR PLAN
 SCALE: 1/16" = 1'-0"

**THE VILLAS AT
 SOUTHBANK**
 1122 EAST VISTA
 DEL LAGO, TEMPE,
 ARIZONA 85281

04/03/2012 REISED PLANNING SUBMITTAL
 03/06/2012 PLANNING SUBMITTAL
 02/13/2012 PRELIMINARY SITE REVIEW

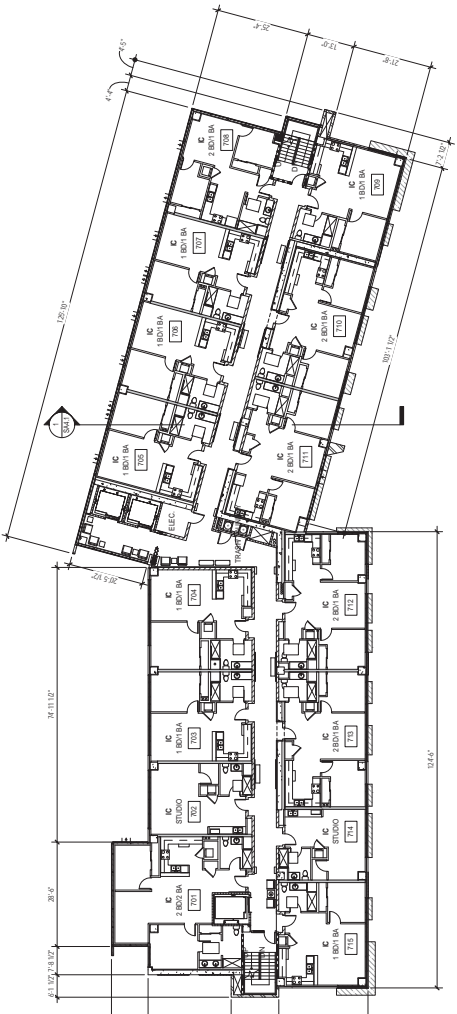


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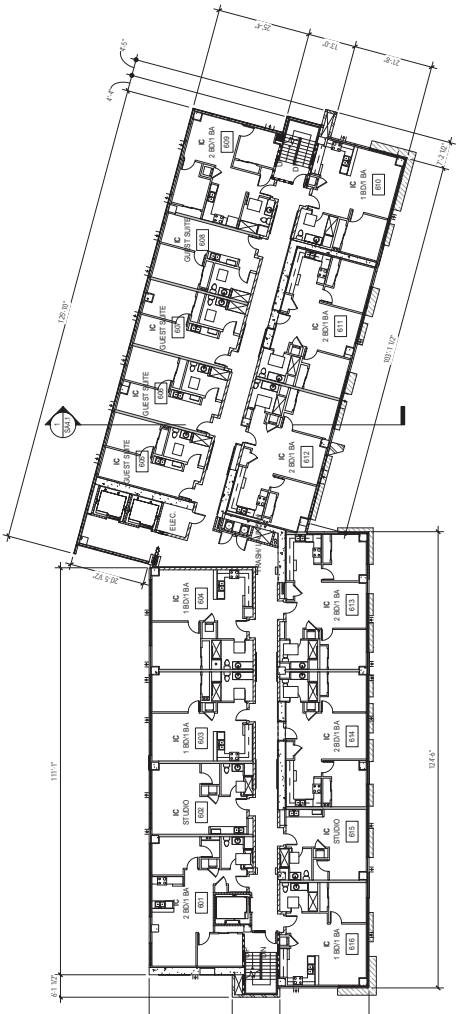
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DESIGNED BY:	WILLIAM W. JOHNSON
DRAWN BY:	CHAMP
CHECKED BY:	CHAMP
DATE:	04/03/2012
TIME:	4:19:00 PM
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SIXTH -
 SIXTEENTH
 FLOOR PLANS

DRAWING NO. **SA2.4**



2 LEVEL SEVEN FLOOR PLAN (LEVEL EIGHT THRU SIXTEEN SIM.)
 SCALE: 1/16" = 1'-0"



1 LEVEL SIX FLOOR PLAN
 SCALE: 1/16" = 1'-0"



ATTACHMENT 35

carrierjohanson
architecture for urban environments
1301 third avenue san diego ca 92101
phone 619.239.2353 | fax 619.239.6227

**THE VILLAS AT
SOUTHBANK**
1122 EAST VISTA
DEL LAGO, TEMPE,
ARIZONA 85281

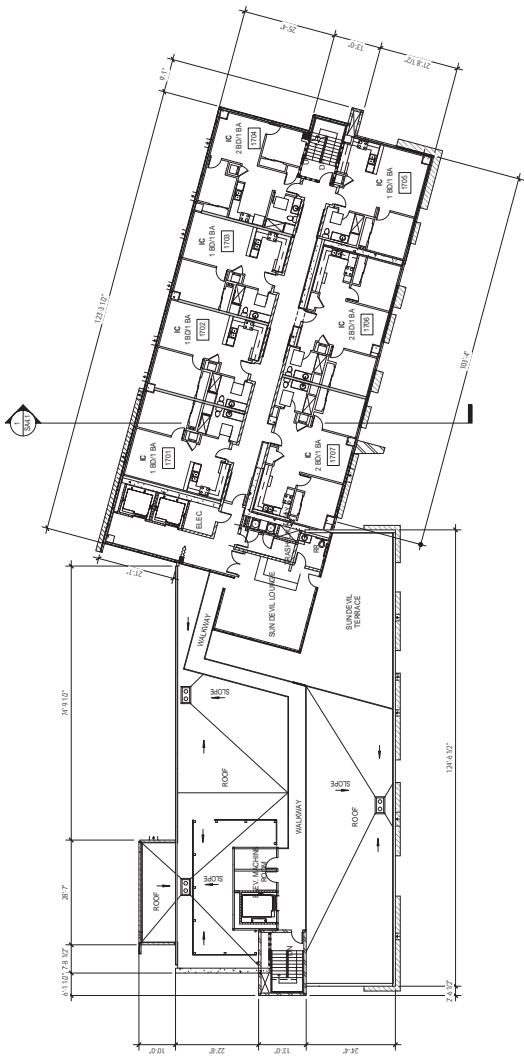
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02/15/2012 PRELIMINARY SITE REVIEW
ISSUES:
PRELIMINARY NOT FOR CONSTRUCTION



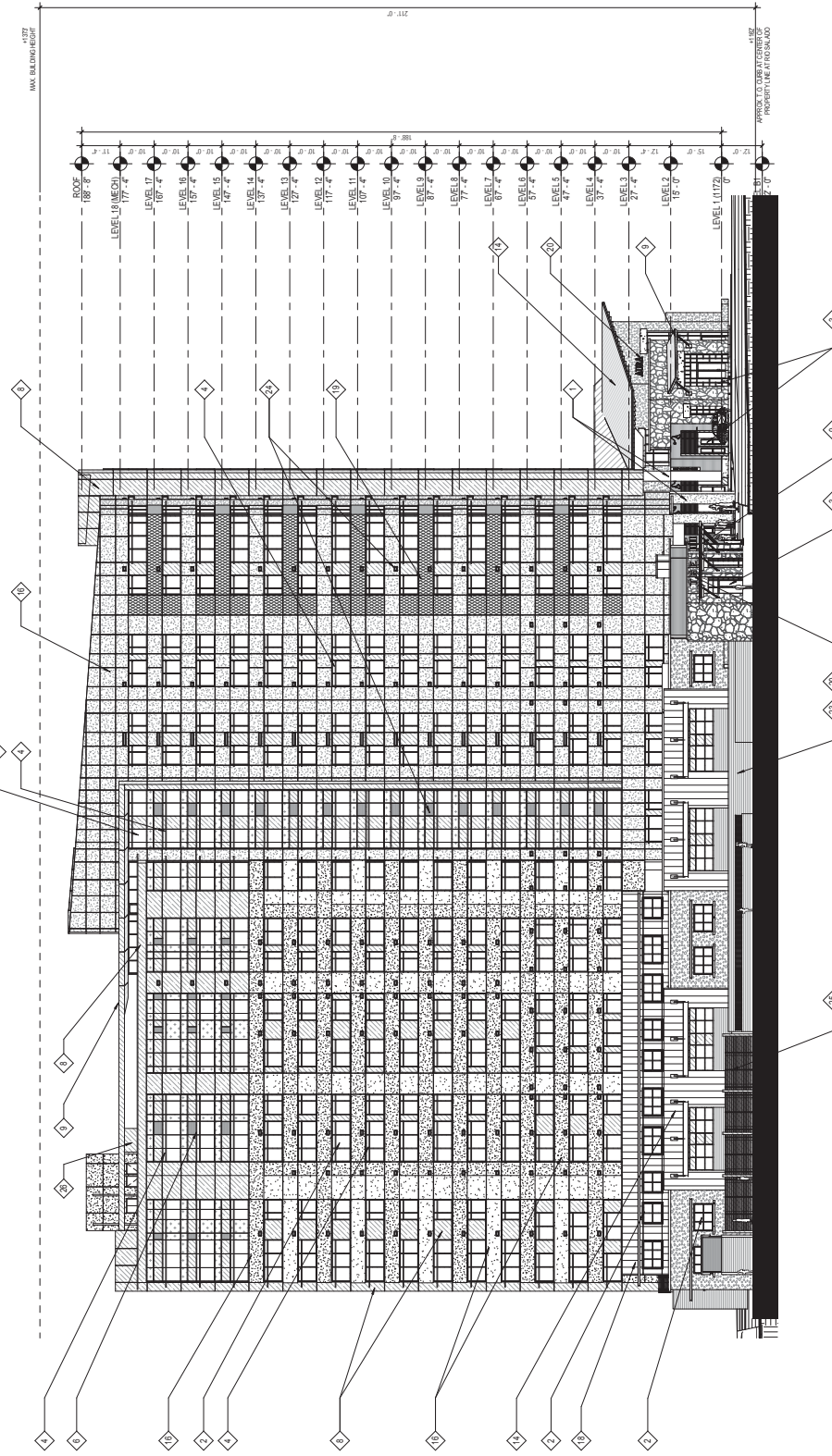
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CHECKED BY: CARRIE J. JOHNSON
DATE: 04/03/2012
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4/19/2012 3:45:22 PM
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SEVENTEENTH
FLOOR PLAN

DRAWING NO.:
SA2.5



1 LEVEL 17 FLOOR PLAN
SCALE: 1/16" = 1'-0"



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

ELEVATION / SECTION GENERAL NOTES		KEY NOTES		EXTERIOR MATERIAL AND GLASS LEGEND		
<p>VERTICAL DIMENSIONS ARE TO TOP OF JOINTS UNLESS NOTED OTHERWISE.</p> <p>ALL EXTERIOR METALS ARE TO BE ANODIZED ALUMINUM UNLESS NOTED OTHERWISE.</p> <p>ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE FROM THE STREET OR ADJACENT PROPERTY SHALL BE FINISHED WITH AN INTEGRAL COLOR FINISH. UNLESS OTHERWISE NOTED, THE FINISH SHALL BE THE SAME AS THE SURROUNDING WALL.</p>		<p>1 CAST IN PLACE CONCRETE COLUMN</p> <p>2 PREFINISHED ALUMINUM WINDOW</p> <p>3 ALUMINUM STOREFRONT SYSTEM AT RETAIL</p> <p>4 INTEGRATED ALUMINUM LOWERS / SUNSHADES</p> <p>5 PREFINISHED ALUMINUM STOREFRONT DOOR</p> <p>6 CURTAIN WALL WINDOW SYSTEM</p> <p>7 HORIZONTAL ALUMINUM FIN / SUNSHADE</p> <p>8 ALUMINUM PANEL</p> <p>9 PREFINISHED METAL CANOPY</p>	<p>10 GLASS GUARDRAIL SYSTEM</p> <p>11 OVERHEAD COILING DOOR (MOTORIZED)</p> <p>12 PRECAST CONCRETE PARAPET CAP</p> <p>13 NOT USED</p> <p>14 STANDING SEAM METAL ROOF</p> <p>15 NOT USED</p> <p>16 PRECAST CONCRETE PANEL WITH INTEGRAL COLOR CONCRETE</p> <p>17 EXPOSED SHEAR WALL W/ ARCHITECTURAL FINISH</p> <p>18 PREFINISHED METAL PANEL W/ PROFILE</p>	<p>19 PRECAST PANEL W/ FORMLINER FINISH</p> <p>20 SMOOTH FINISH</p> <p>21 PRECAST PANEL WITH FORMLINER FINISH</p> <p>22 C.I.P. CONCRETE WITH ARCHITECTURAL FINISH</p> <p>23 PREFINISHED METAL PANEL</p> <p>24 LARGE AGGREGATE CONCRETE</p> <p>25 PREFINISHED METAL PANEL WITH VERTICAL PROFILE</p> <p>26 PREFINISHED METAL PANEL WITH HORIZONTAL PROFILE</p>	<p>27 PRECAST PANEL WITH EXPOSED AGGREGATE</p> <p>28 C.I.P. CONCRETE WITH FORMLINER FINISH</p> <p>29 PREFINISHED METAL PANEL</p> <p>30 FIELD STONE</p> <p>31 PREFINISHED METAL PANEL WITH HORIZONTAL PROFILE</p> <p>32 PREFINISHED METAL PANEL WITH HORIZ. SEAMS</p> <p>33 PREFINISHED FLAT SEAM METAL PANEL WITH VERT. SEAMS</p>	<p>34 INSULATED GLASS W/ LOW E COATING</p> <p>35 SAME AS TYPE 1 W/ SPANDREL</p> <p>36 INSULATED GLASS W/ LOW E COATING</p>
<p>NOTE REFER TO SHEETS SA4.1 - SA4.3 FOR MATERIAL COLOR FINISH CLARIFICATION</p>						



PROJECT NO.:
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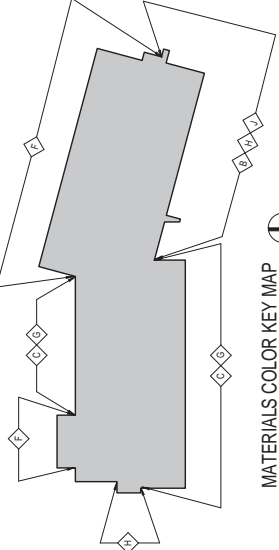
**COLOR NORTH
 ELEVATION**

DRAWING NO.:
SA5.1



KEY NOTES - MATERIALS

A	INTEGRAL COLOR CONCRETE	H	METAL PANEL / MILLION COLOR C (FAUX RUSTED)
B	PRECAST CONCRETE PANEL - COLOR A	I	METAL PANEL / MILLION COLOR D (BRONZE)
C	PRECAST CONCRETE PANEL - COLOR B	J	FIELD STONE
D	CONCRETE MASONRY - BLEND	K	FABRIC CANOPY
E	LARGE AGGREGATE CONCRETE	L	GLASS TYPE A - VIE L-50
F	METAL PANEL / MILLION COLOR A (SILVERSMITH)	M	GLASS TYPE B - VIE L-50 SPANDREL
G	METAL PANEL / MILLION COLOR B (GREY FELT)	N	GLASS TYPE C - VIE L-40
		O	TITANIUM



MATERIALS COLOR KEY MAP

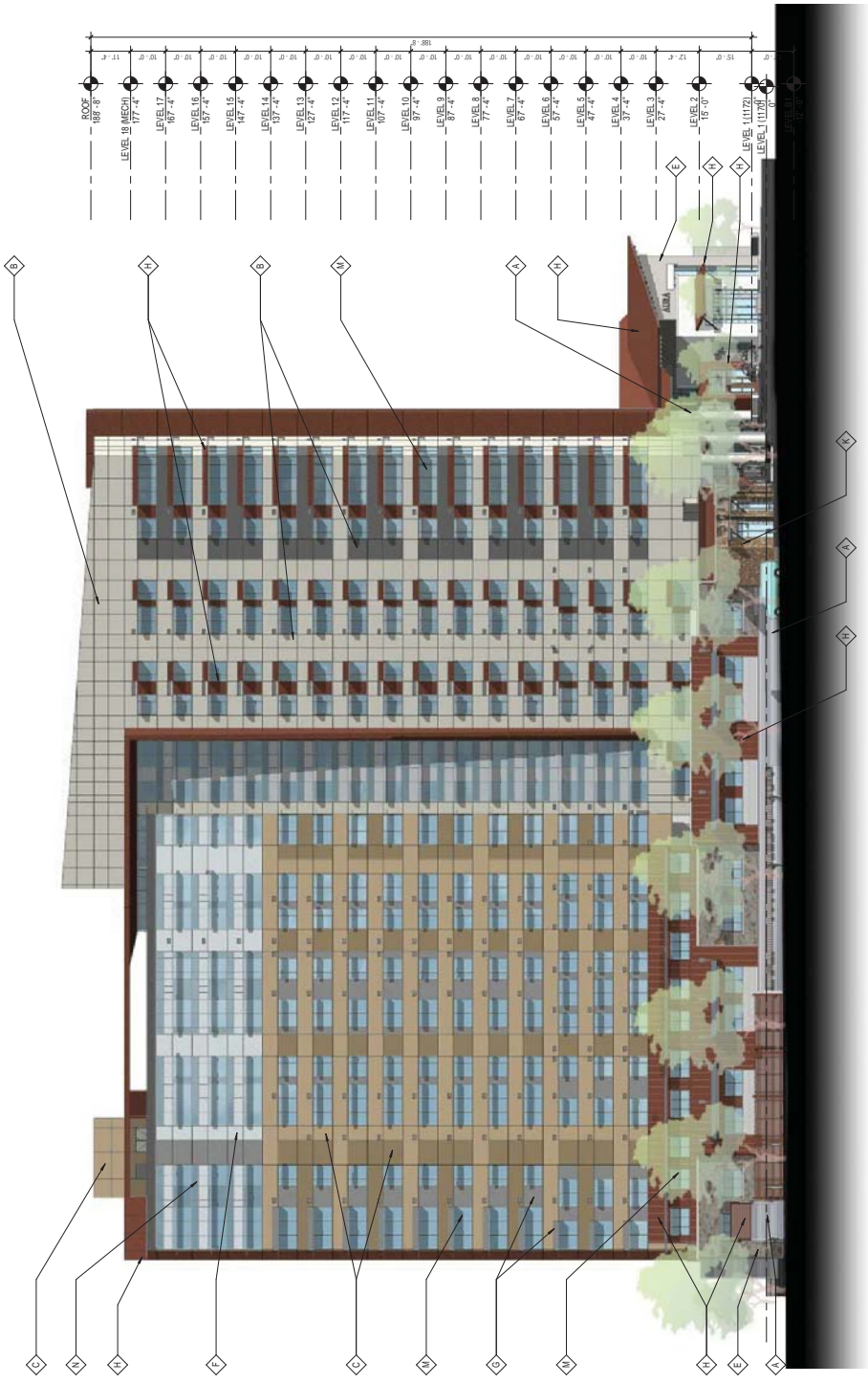
1 RENDERED NORTH ELEVATION
 SCALE: 1/16" = 1'-0"



PROJECT NO.:
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 DATE PLOTTED:
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**COLOR SOUTH
 ELEVATION**

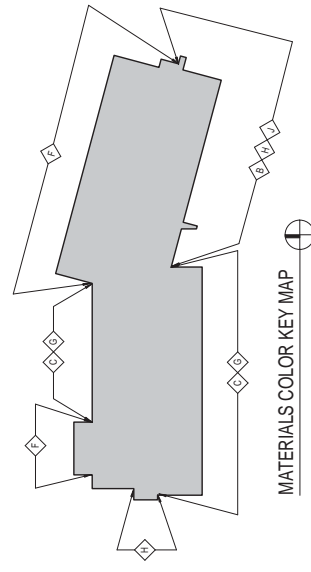
DRAWING NO.:
SA5.2



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

KEY NOTES - MATERIALS

A	INTEGRAL COLOR CONCRETE	METAL PANEL (MILLION COLOR C FAUX BRISTED)
B	PRECAST CONCRETE PANEL - COLOR A	METAL PANEL (MILLION COLOR D BRONZE)
C	PRECAST CONCRETE PANEL - COLOR B	FIELD STONE
D	CONCRETE MASONRY - BLEND	FABRIC CANOPY
E	LARGE AGGREGATE CONCRETE	GLASS TYPE A - VIE 1-60
F	METAL PANEL (MILLION COLOR A SILVERSMITH)	GLASS TYPE B - VIE 1-60 SPANDREL
G	METAL PANEL (MILLION COLOR B GREY VELVET)	GLASS TYPE C - VIE 1-40
		TITANIUM



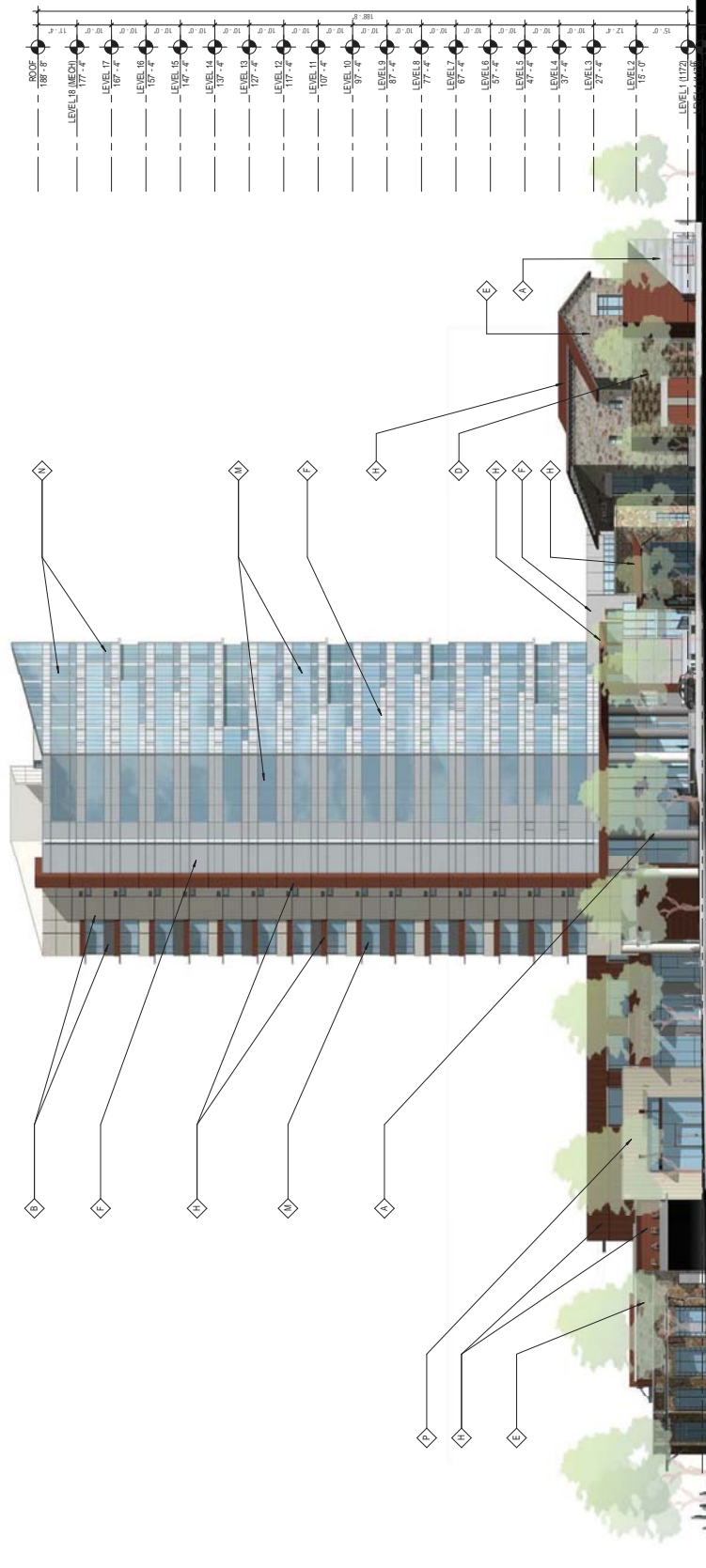
MATERIALS COLOR KEY MAP



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 DATE: 1/13/12
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**COLOR EAST
 ELEVATION**

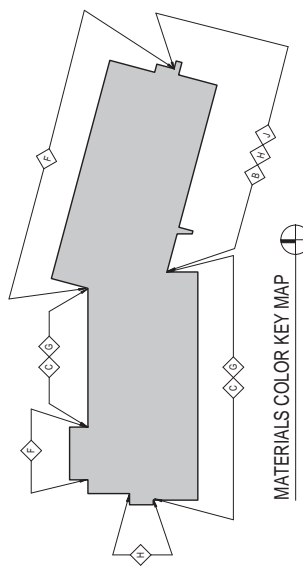
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1 RENDERED EAST ELEVATION
 SCALE: 1/16" = 1'-0"

KEY NOTES - MATERIALS

A	INTEGRAL COLOR CONCRETE	H	METAL PANEL / MILLION COLOR C (PAU/RUSTED)
B	PRECAST CONCRETE PANEL - COLOR A	I	METAL PANEL / MILLION COLOR D (BRONZE)
C	PRECAST CONCRETE PANEL - COLOR B	J	FIELD STONE
D	CONCRETE MASONRY - BLEND	K	FABRIC CANOPY
E	LARGE AGGREGATE CONCRETE	L	GAUSS TYPE A - VUE 1-90
F	METAL PANEL / MILLION COLOR A (SILVERSMITH)	M	GAUSS TYPE B - VUE 1-90 SPANREL
G	METAL PANEL / MILLION COLOR B (GREY/HEVEN)	N	GAUSS TYPE C - VUE 1-40
		O	TITANIUM



MATERIALS COLOR KEY MAP

**THE VILLAS AT
 SOUTHBANK**
 1122 EAST VISTA
 DEL LAGO, TEMPE,
 ARIZONA 85281

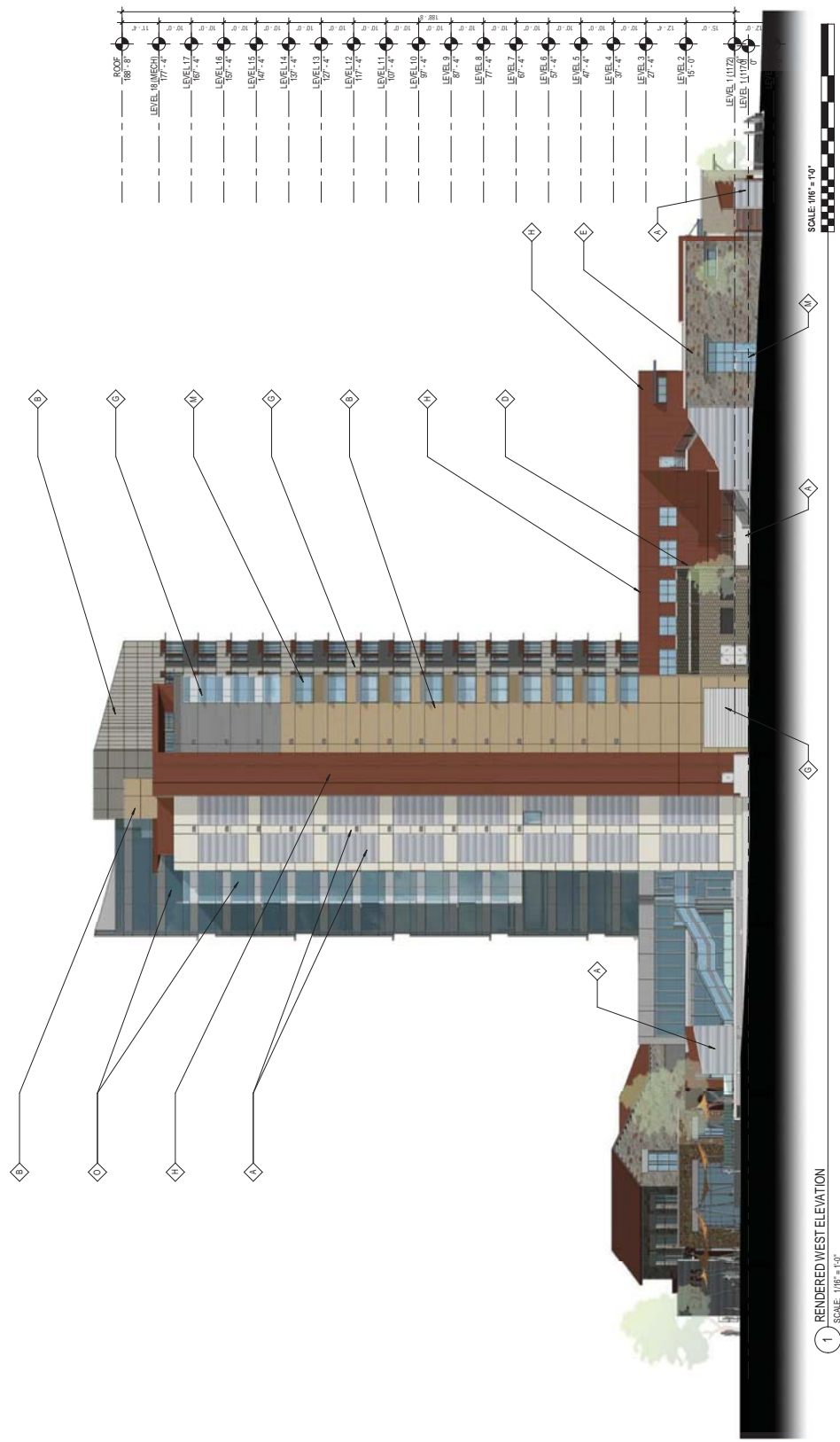
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 03/05/2012 PLANNING SUBMITTAL
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 PLOT TIME:
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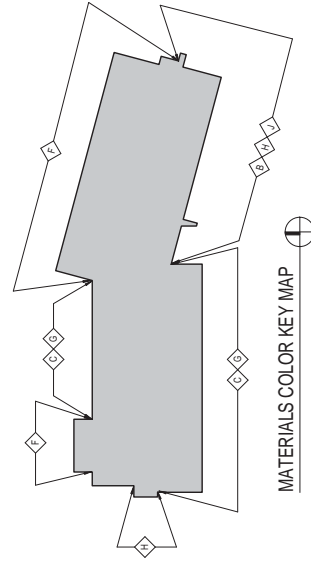
**COLOR WEST
 ELEVATION**

DRAWING NO.:
SA5.4



KEY NOTES - MATERIALS

A	INTEGRAL COLOR CONCRETE	D	METAL PANEL / MILLION COLOR C (PAVA RUSTED)
B	PRECAST CONCRETE PANEL - COLOR A	E	METAL PANEL / MILLION COLOR D (BRONZE)
C	PRECAST CONCRETE PANEL - COLOR B	F	FIELD STONE
D	CONCRETE MASONRY - BLEND	G	FABRIC CANOPY
E	LARGE AGGREGATE CONCRETE	H	GLASS TYPE A - VIE 1-50
F	METAL PANEL / MILLION COLOR A (SILVERSMITH)	I	GLASS TYPE B - VIE 1-50 SANDREL
G	METAL PANEL / MILLION COLORS GREY (NET)	J	GLASS TYPE C - VIE 1-40
		K	TITANIUM



1 RENDERED WEST ELEVATION
 SCALE: 1/16" = 1'-0"

**THE VILLAS AT
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 1122 EAST VISTA
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 ARIZONA 85281

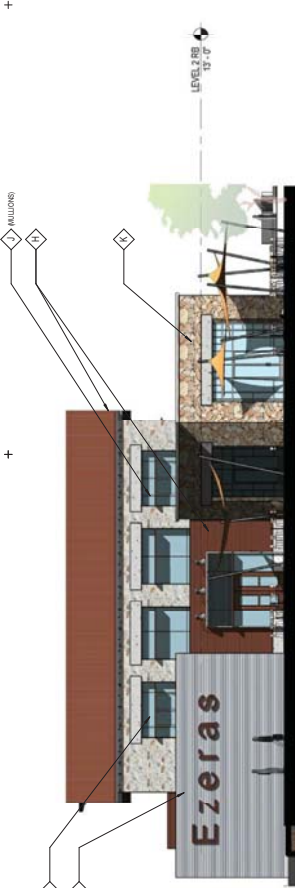
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 05/05/12 PLANNING SUBMITTAL
 05/10/12 PRELIMINARY SITE REVIEW
 ISSUES:
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**COLOR
 ENLARGED
 ELEVATIONS**

DRAWING NO.:
SA5.5



2 RENDERED NORTH WEST ELEVATION AT RETAIL BUILDING
 SCALE: 1/16" = 1'-0"



4 RENDERED SOUTH WEST ELEVATION AT RETAIL BUILDING
 SCALE: 1/16" = 1'-0"



1 RENDERED NORTH EAST ELEVATION AT RETAIL BUILDING
 SCALE: 1/16" = 1'-0"



3 RENDERED SOUTH EAST ELEVATION AT RETAIL BUILDING
 SCALE: 1/16" = 1'-0"



5 RENDERED SOUTH ELEVATION AT RIO SALADO
 SCALE: 1/16" = 1'-0"

KEY NOTES - MATERIALS

1	INTEGRAL COLOR CONCRETE	4	METAL PANEL / MILLION COLOR C (PAV. RUSTED)
2	PRECAST CONCRETE PANEL - COLOR A	5	METAL PANEL / MILLION COLOR D (BRONZE)
3	PRECAST CONCRETE PANEL - COLOR B	6	FIELD STONE
4	CONCRETE MASONRY - BLEND	7	FABRIC CANOPY
5	LARGE AGGREGATE CONCRETE	8	GLASS TYPE A - VUE 100
6	METAL PANEL / MILLION COLOR A (SILVERSMITH)	9	GLASS TYPE B - VUE 100 SPANDREL
7	METAL PANEL / MILLION COLOR B (GREY/VELVET)	10	GLASS TYPE C - VUE 140
8		11	TITANIUM



1 PERSPECTIVE FROM SOUTH EAST (RIO SALADO)
SCALE

PERSPECTIVE

DRAWING NO. SA6.1

PROJECT NO. 1122 EAST VISTA DEL LAGO, TEMPE, ARIZONA 85281

PROJECT NO. 1122 EAST VISTA DEL LAGO, TEMPE, ARIZONA 85281
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DATE: 04/03/2012
TIME: 4:19:00 PM



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ARIZONA 85281

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architecture for urban environments
1301 third avenue san diego ca 92101
phone 619.239.2353 | fax 619.239.6227





1 PERSPECTIVE FROM NORTH WEST (LAKE/LEVEE)
SCALE

PERSPECTIVE

DRAWING NO.:

SA6.2

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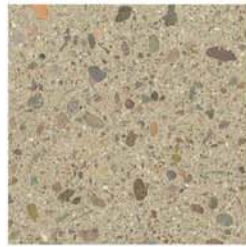
**THE VILLAS AT
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carrierjohnson + CULTURE
architecture + environments + brand strategy + graphics



A INTEGRAL COLOR CONCRETE



B PRECAST CONCRETE PANEL - COLOR A



C PRECAST CONCRETE PANEL - COLOR B



D CONCRETE MASONRY - BLEND



E LARGE AGGREGATE CONCRETE



K FABRIC CANOPY (COPPER)



L FABRIC CANOPY (COPPER)



P METAL PANEL / MULLION COLOR D (TITANIUM GREY)



G METAL PANEL / MULLION COLOR B (WEATHERED ZINC)



J METAL PANEL / MULLION COLOR D (DARK BRONZE)



F METAL PANEL / MULLION COLOR A (SILVER/WHITE)



H METAL PANEL / MULLION COLOR C (FAUX RUST)



M GLASS TYPE A - VUE 1:50



N GLASS TYPE B - VUE 1:50 SPANDEL



O GLASS TYPE C - VUE 1:40

ISSUES:
03-05-2012 PLANNING SUBMITTAL
04-03-2012 REVISED PLANNING

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TITLE:
MATERIALS

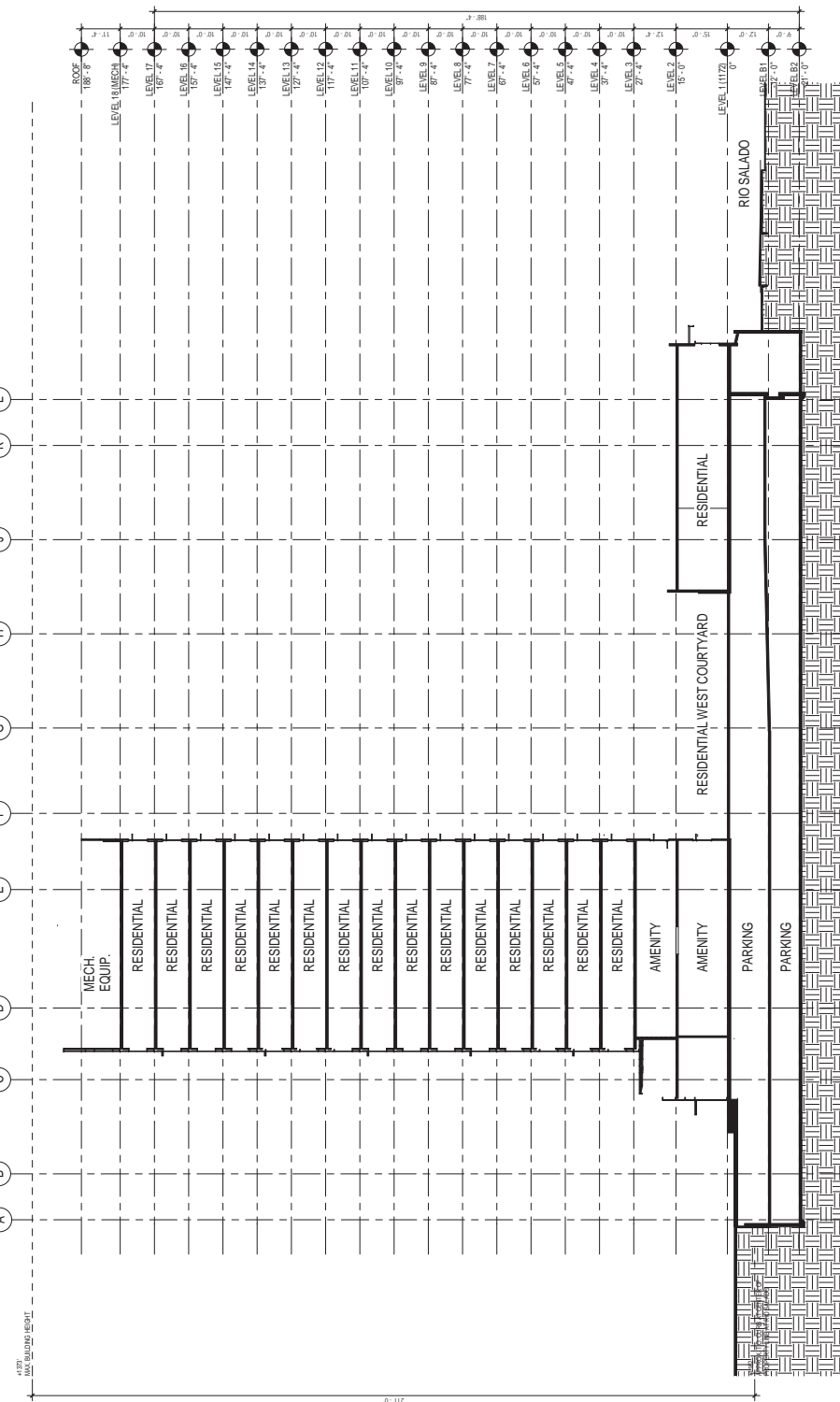
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04/20/2019 REVISION PLANNING SUBMITTAL
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PROJECT NO.:
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**BUILDING
 SECTION**

DRAWING NO.:
SA4.1

EXTERIOR MATERIAL AND GLASS LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(Symbol)	CAST IN PLACE CONCRETE COLUMN	(Symbol)	PRECAST PANEL W/ FORMLINER FINISH
(Symbol)	PREFINISHED ALUMINUM WINDOW	(Symbol)	PRECAST PANEL WITH EXPOSED AGGREGATE
(Symbol)	ALUMINUM STOREFRONT SYSTEM AT RETAIL	(Symbol)	PRECAST PANEL WITH SMOOTH FINISH
(Symbol)	INTEGRATED ALUMINUM LouVERS / SUNSHADES	(Symbol)	PRECAST PANEL WITH FORMLINER FINISH
(Symbol)	PREFINISHED ALUMINUM STOREFRONT DOOR	(Symbol)	C.I.P. CONCRETE WITH ARCHITECTURAL FINISH
(Symbol)	CURTAINWALL WINDOW SYSTEM	(Symbol)	PREFINISHED METAL PANEL
(Symbol)	HORIZONTAL ALUMINUM FIN / SUNSHADE	(Symbol)	LARGE AGGREGATE CONCRETE
(Symbol)	ALUMINUM PANEL	(Symbol)	PREFINISHED METAL PANEL WITH HORIZONTAL PROFILE
(Symbol)	PREFINISHED METAL CANOPY	(Symbol)	PREFINISHED METAL PANEL WITH HORIZONTAL PROFILE
(Symbol)	GLASS GUARDRAIL SYSTEM	(Symbol)	FIELD STONE
(Symbol)	OVERHEAD COILING DOOR (MOTORIZED)	(Symbol)	PREFINISHED METAL PANEL WITH VERTICAL PROFILE
(Symbol)	ALUMINUM STOREFRONT SYSTEM AT RETAIL	(Symbol)	TRANSFORMER SCREEN
(Symbol)	NOT USED	(Symbol)	MECHANICAL EQUIPMENT SCREEN
(Symbol)	STANDING SEAM METAL ROOF	(Symbol)	PREFINISHED METAL PANEL W/ PROFILE
(Symbol)	LOUVER	(Symbol)	PREFINISHED METAL PANEL WITH HORIZ. SEAMS
(Symbol)	NOT USED	(Symbol)	PREFINISHED FLAT SEAM METAL PANEL WITH VERT. SEAMS
(Symbol)	PRECAST CONCRETE PANEL WITH INTEGRAL COLOR CONCRETE	(Symbol)	
(Symbol)	EXPOSED SHEAR WALL W/ ARCHITECTURAL FINISH	(Symbol)	
(Symbol)	PREFINISHED METAL PANEL W/ PROFILE	(Symbol)	

ELEVATION / SECTION GENERAL NOTES

- REFERENCES ARE TO TOP OF JOINTS AND REVEALS UNLESS NOTED OTHERWISE.
- VERTICAL DIMENSIONS ARE TO TOP OF JOINTS AND REVEALS UNLESS NOTED OTHERWISE.
- ALUMINUM FINISHES: NO VISIBLE LINEWORK OR METAL SHEET SHALL BE SHOWN UNLESS SPECIFICALLY NOTED OTHERWISE.
- GLASS GUARDRAIL SYSTEM: FOLLOWING VALUES AT EXTERIOR WALLS AND ROOF CONSTRUCTION SURROUNDING CONCRETE: 1/8" MIN. GLASS, 1/2" MIN. SPACING TO GLASS, 1/2" MIN. WALLS & 1/2" FLOOR OVERLAP & 1/2" MIN. SPACING TO GLASS.
- ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR INLEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED.
- ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE NOT OBSERVABLE SHALL BE PLACED ON A SLOPE AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. NUMBERS SHALL CONTINUE WITH THEIR RESPECTIVE 17 HIGH DIMENSIONS WITH NO UNIT INDICATION.

KEY NOTES

- GLASS GUARDRAIL SYSTEM
- SONOAGE (N.C.)
- FABRIC CANOPY WITH PREFINISHED METAL SUPPORTS
- CMU SCREEN WALL
- C.I.P. CONCRETE WALL
- LOUVER
- PRECAST CONCRETE PANEL WITH INTEGRAL COLOR CONCRETE
- MECHANICAL EQUIPMENT SCREEN
- METAL SCREEN

1 BUILDING SECTION - NORTH-SOUTH
 SCALE: 1/16" = 1'-0"

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

ISSUES:
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Acetate Finish Concrete



Exposed Aggregate Finish Concrete



Adobe



Outback



Tree Grate

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Ten Cych
 ARCHITECTS
 1001 EAST JAY AVENUE SUITE 100
 PHOENIX, ARIZONA 85014
 PHONE: 602.954.9600
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Glass Pool Fence



Board Formed Concrete



Water Feature Character



Concrete Urn



Bench



Bicycle Rack



Bollard

THE VILLAS AT SOUTH BANK
 TEMPE, ARIZONA

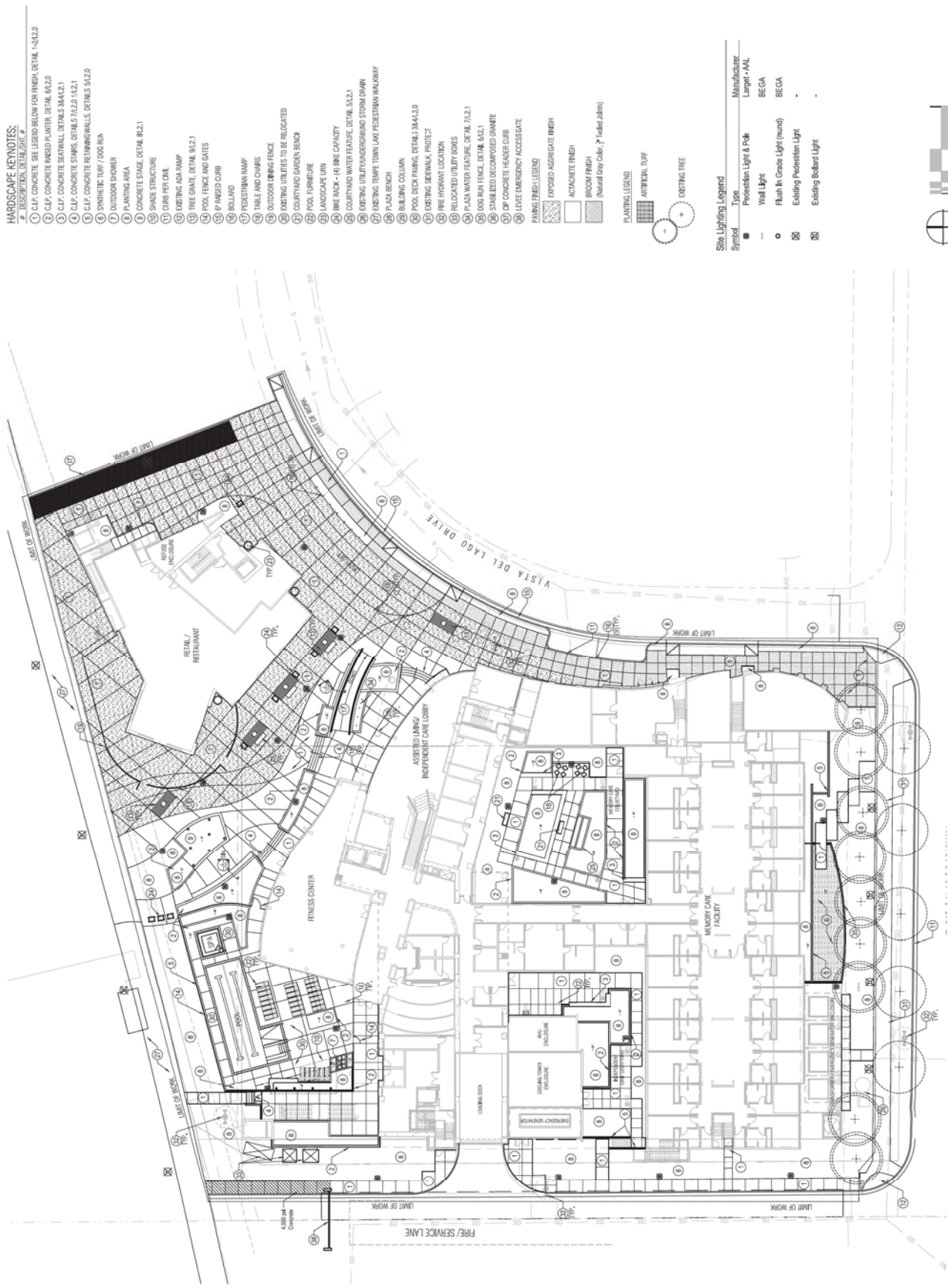
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 PROJECT NAME: THE VILLAS AT SOUTH BANK
 DRAWING NO. 1001-001 PRELIMINARY SITE REVIEW



PROJECT NO. 1001
 PROJECT NAME: THE VILLAS AT SOUTH BANK
 DRAWING NO. 1001-001 PRELIMINARY SITE REVIEW

HARDSCAPE CHARACTER

DRAWING NO. **L0.2**



HARDSCAPE KEYNOTES:

1. ASPHALT DRIVEWAY
2. ASPHALT DRIVEWAY (SEE LEGEND FOR FINISH) DETAIL 14.02.0
3. C.P. CONCRETE PAVED PAVEMENT DETAIL 81.02.0
4. C.P. CONCRETE STAINLESS STEEL DETAIL 84.02.1
5. C.P. CONCRETE STAINLESS STEEL DETAIL 14.2.1
6. C.P. CONCRETE STAINLESS STEEL DETAIL 14.2.1
7. SYNTHETIC TURF / DOG RUN
8. OUTDOOR SHOWER
9. PLANTING AREA
10. CONCRETE SLAB DETAIL 81.2.1
11. SWAGE STRUCTURE
12. CORRUGATED METAL
13. EXISTING ADA RAMP
14. TREE GRATE DETAIL 81.2.1
15. POOL FENCE AND GATES
16. P FENCED CURB
17. BOLLARD
18. PEDESTRIAN RAMP
19. TABLE AND CHAIRS
20. OUTDOOR DINING FENCE
21. EXISTING UTILITIES TO BE RELOCATED
22. COURTYARD GARDEN BENCH
23. POOL FURNITURE
24. LANDSCAPE LUMBER
25. BIKE RACK - (4) BIKE CAPACITY
26. COURTYARD WATER FEATURE DETAIL 84.2.1
27. EXISTING UTILITY UNDERGROUND STORM DRAIN
28. EXISTING TEMPE TOWN LAKE PEDESTRIAN WALKWAY
29. PLAZA BENCH
30. BUILDING COLUMN
31. POOL DECK FINISH DETAIL 38.02.0
32. EXISTING SEWER/ WASTE PROTECT
33. FIRE HYDRANT LOCATION
34. RELOCATED UTILITY BOXES
35. PLAZA WATER FEATURE DETAIL 71.2.1
36. DOG-RUN FENCE DETAIL 84.2.1
37. STABILIZED RECOMPOSED GRANITE
38. C/P CONCRETE HEADER CURB
39. LEVEE EMERGENCY ACCESSGATE

PAVING FINISH LEGEND

- EXPOSED AGGREGATE FINISH
- ACRYLIC FINISH
- BROOM FINISH
- Natural Gray Color, 2" Tabled Joints

PLANTING LEGEND

- ARTIFICIAL TURF
- EXISTING TREE

Site Lighting Legend

Symbol	Type	Manufacturer
■	Provision Light & Pole	Leggett - LAL
○	Wall Light	BEGA
○	Flush In Gravel Light (round)	BEGA
⊗	Existing Pedestrian Light	-
⊗	Existing Bollard Light	-



**THE VILLAS AT
SOUTH BANK
TEMPE, ARIZONA**

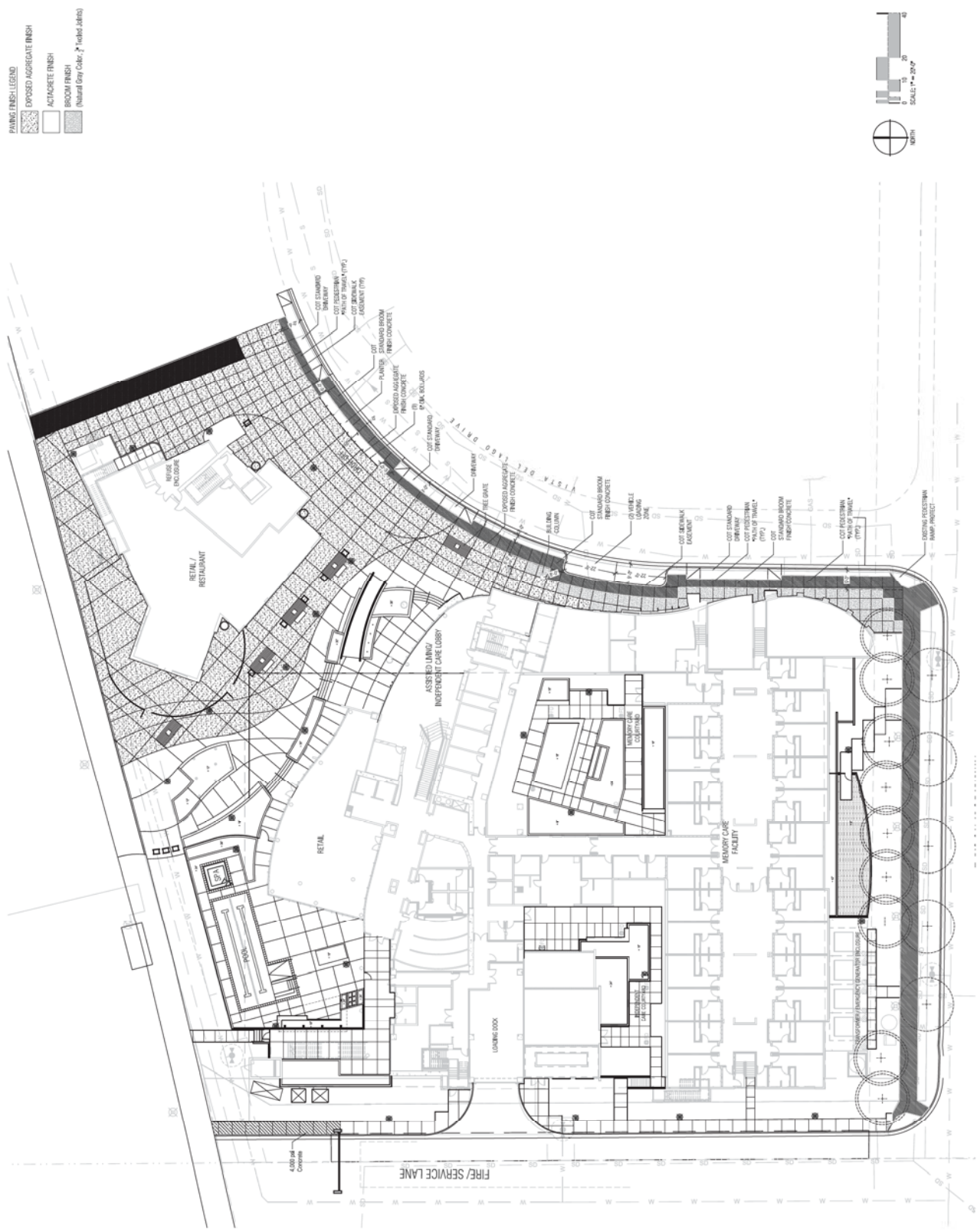
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**SITE
HARDSCAPE
PLAN**

DRAWING NO:
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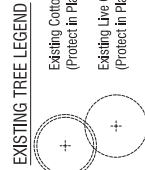
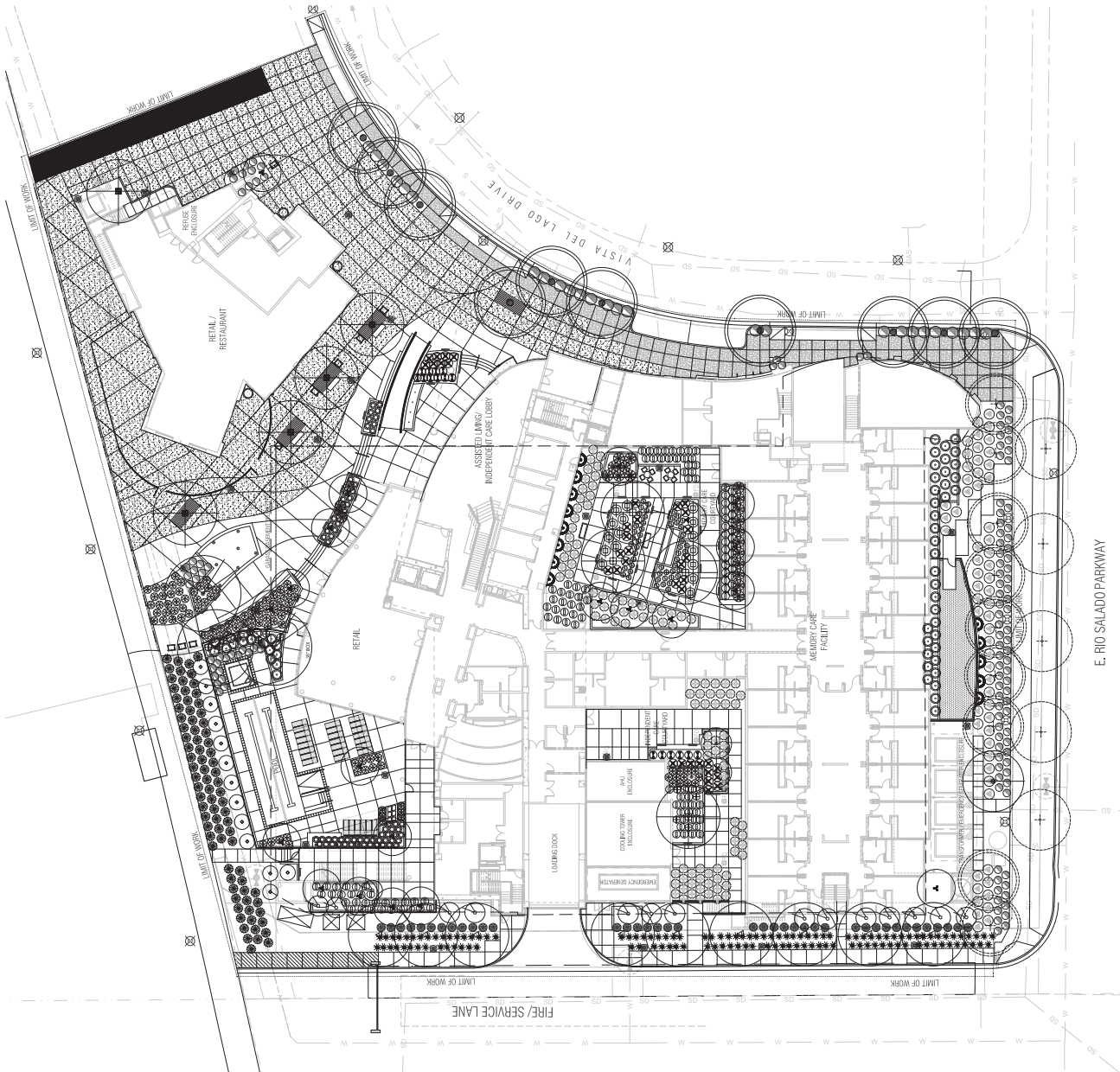
**SIDEWALK
 EXHIBIT**

DRAWING NO:

L1.1

PLANT LEGEND

TREES	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
	<i>Bauhinia variegata</i>	Azalea Orchid	24" Box	Multi-Trunk
	<i>Dalbergia sissoo</i>	Sissoo Tree	36" Box	Standard
	<i>Ficus velutina 'Fain-tex'</i>	Fan tex ash	36"	Standard
	<i>Olea europaea Swain Hill</i>	Swan Hill Fruitless Olive	36" Box	Multi-Trunk
	<i>Olneya tesota</i>	Ironwood Tree	48" & 36"	Multi-Trunk
	<i>Prosopis hybrid 'Phoenix'</i>	Thornless Hybrid Mesquite	36" Box	Multi-Trunk
	<i>Populus fremontii</i>	Cottonwood Tree	36" Box	Standard
	<i>Sophora secundiflora</i>	Texas Mountain Laurel	24" Box	Multi-Trunk
SHRUBS				
	<i>Jasminum sambac</i>	Arabian jasmine	5 Gallon	
	<i>Lavandula angustifolia</i>	Lavender Sp.	5 Gallon	
	<i>Ruellia pennsylvanica</i>	Desert Ruellia	5 Gallon	
	<i>Tecoma x 'Solar Flare'</i>	Solar Flare Tecoma	5 Gallon	
	<i>Tecoma stans 'Gold Star'</i>	Yellow Bells	5 Gallon	
ACCENTS/GRASSES				
	<i>Aloe barbadensis</i>	Yellow Blooming Aloe	5 Gallon	
	<i>Aloe ferox</i>	Rice Aloe	5 Gallon	
	<i>Bouteloua gracilis</i>	Blue grama	1 Gallon	
	<i>Bulbine frutescens</i>	Shrubby Bulbine	5 Gallon	
	<i>Euphorbia antisyriatica</i>	Candelilla	5 Gallon	
	<i>Euphorbia biglandulosa</i>	Gopher Plant	5 Gallon	
	<i>Manfreda var. macho macho</i>	Manfreda	5 Gallon	
	<i>Pedilanthus macrocarpus</i>	Slipper Plant	5 Gallon	
	<i>Yucca pallida</i>	Palm Leaf Yucca	5 Gallon	
	<i>Yucca recurvifolia</i>	Soft Tippled Yucca	5 Gallon	
VINES				
	<i>Perittocarpus guineensis</i>	White Creeper	5 Gallon	
GROUNDCOVERS / PERENNIALS				
	<i>Lantana sp. 'New Gold'</i>	New Gold Lantana	1 Gallon	
	<i>Sarcocolla pallida</i>	Purple Heart	1 Gallon	
	<i>Weselia imbricata</i>	Yellow Dot	1 Gallon	
	<i>Zephyranthes candida</i>	White Faith Lily	1 Gallon	



THE VILLAS AT SOUTH BANK TEMPE, ARIZONA

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 TITLE: [Blank]

LANDSCAPE PLANTING PLAN

DRAWING NO.: L2.0

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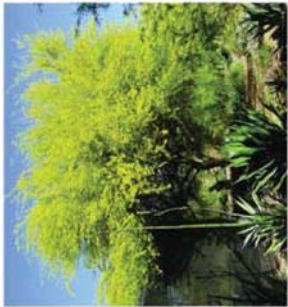
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Chicago Sycamore
Chicago



Chickadee Parakeet
Dorset Manor



Chickadee Parakeet
Bent Pine Drive



Chickadee Parakeet
Cascadia



Chickadee Parakeet
Imitative Arch



Chickadee Parakeet
Pine Bluffs



Chickadee Parakeet
Woodland



Chickadee Parakeet
Sage Hill Drive



Chickadee Parakeet
Pine Bluffs



Chickadee Parakeet
Aubrey



Chickadee Parakeet
New Drive



Chickadee Parakeet
Sage Hill



Chickadee Parakeet
New M. Lane



Chickadee Parakeet
Live Oak



Chickadee Parakeet
Thomas M. Lane



Chickadee Parakeet
Cottonwood

**THE VILLAS AT
 SOUTH BANK**
 TEMPE, ARIZONA

ARCHITECT: CARRIER JOHNSON
 LANDSCAPE ARCHITECT: TEN TICK
 DATE: 05-15-2012
 PROJECT: PRELIMINARY SITE REVIEW



PROJECT NO.:
 DATE: 05-15-2012
 DRAWING NO.:
 CHECKED BY:
 DATE: 05-15-2012
 TITLE:

**LANDSCAPE
 CHARACTER**

DRAWING NO.:
L2.1

TREES

carrierjohnson
architecture for urban environments
1301 third avenue san diego ca 92101
phone 619.239.2353 | fax 619.239.6227

Ten Tick
ARCHITECTURE
1025 WEST 18TH AVENUE SUITE 100
DENVER CO 80202
PHONE 303.733.9333
FAX 303.733.9334
WWW.TENTICK.COM

THE VILLAS AT SOUTH BANK TEMPE, ARIZONA

PROJECT NO: 1001
DESIGNER: T. TICK ARCHITECTURE
DATE: 08-15-12
DRAWN BY: J. JOHNSON
CHECKED BY: J. JOHNSON
SCALE: 1/2" = 1'-0"



PROJECT NO:
DATE:
DRAWN BY:
CHECKED BY:
SCALE:
PROJECT NO:
DATE:
DRAWN BY:
CHECKED BY:
SCALE:

TITLE:
LANDSCAPE CHARACTER

DRAWING NO:
L2.2

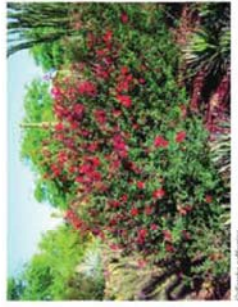
SHRUBS



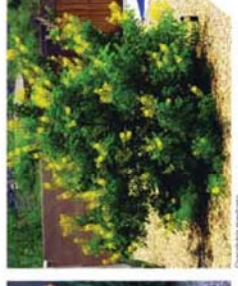
Artemisia tridentata
Desert Hollyhock



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



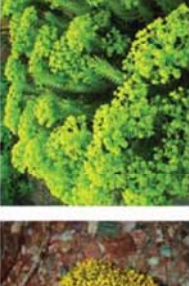
Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus



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Flower Cactus



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Flower Cactus



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Flower Cactus



Prosopis juliflora
Flower Cactus

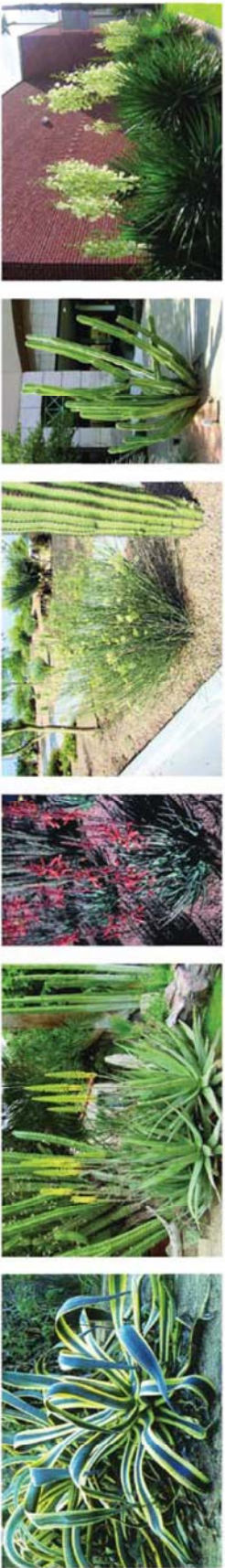


Prosopis juliflora
Flower Cactus



Prosopis juliflora
Flower Cactus

ACCENTS



Agave americana
Agave

Agave bracteatus
Yucca Desmetiana

Agave fibreifolius
Fiber agave

Agave schottii
Desert cholla

Agave schottii
Desert cholla

Cylindropuntia
Cholla cactus

Sida acuta
Red flower yucca



Yucca variegata
Green Desert Agave



Yucca elata
Desert cholla



Yucca elata
Fiber agave



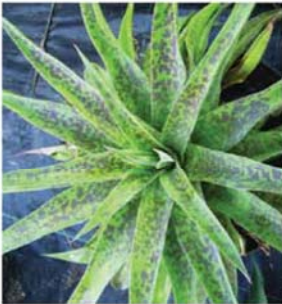
Agave americana
Desert cholla



Cylindropuntia
Red cholla



Yucca elata
Desert cholla



Yucca elata
Desert cholla



Yucca elata
Desert cholla



Cylindropuntia
Red cholla



Yucca elata
Fiber agave



Cylindropuntia
Red cholla



Yucca elata
Fiber agave

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**THE VILLAS AT
SOUTH BANK
TEMPE, ARIZONA**

ARCHITECT: CARRIER JOHNSON ARCHITECTURE
LANDSCAPE ARCHITECT: CARRIER JOHNSON ARCHITECTURE
DATE: 10/10/12
REVISIONS: 1
SCALE: 1/8" = 1'-0"



PROJECT NO: _____
DATE: _____
DRAWN BY: _____
CHECKED BY: _____
FOOT DATE: _____
TITLE: _____

LANDSCAPE CHARACTER

DRAWING NO: _____

L2.4

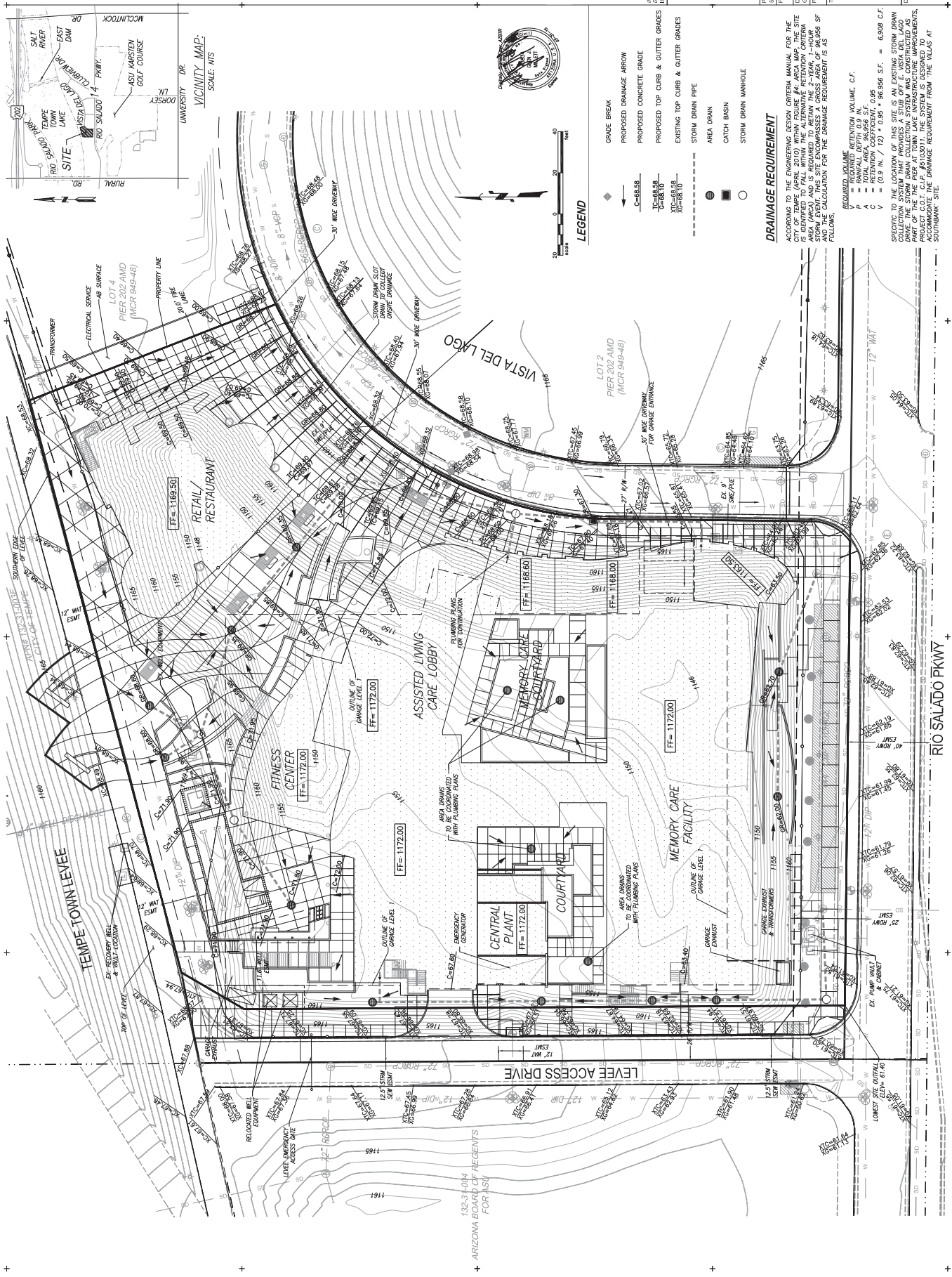
THE VILLAS AT SOUTH BANK
 1122 East Vista del Lago
 TEMPE, ARIZONA

ASU 2017 PRELIMINARY GRADING & DRAINAGE PLAN
 DATE: 08/15/17

PRELIMINARY NOT FOR CONSTRUCTION

PROJECT NO.: 112200
 FILE NAME:
 DRAWN BY: GJM
 CHECKED BY: GJM
 PLOT DATE:
 TITLE:
 SHEET 1 OF 1

DRAWINGS:



LEGEND

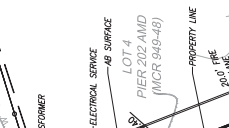
- GRADE BREAK
- PROPOSED DRAINAGE ARROW
- PROPOSED CONCRETE GRADE
- PROPOSED TOP CURB & GUTTER GRADES
- EXISTING TOP CURB & GUTTER GRADES
- STORM DRAIN PIPE
- AREA DRAIN
- CATCH BASIN
- STORM DRAIN MANHOLE

DRAINAGE REQUIREMENT

ACCORDING TO THE ENGINEERING DESIGN CRITERIA MANUAL FOR THE STATE OF ARIZONA, THE DESIGN CRITERIA FOR THIS PROJECT IS IDENTIFIED TO FALL WITHIN THE ALTERNATIVE RETENTION CRITERIA FOR A SUBURBAN DEVELOPMENT. THE DESIGN CRITERIA FOR THIS PROJECT IS IDENTIFIED TO FALL WITHIN THE ALTERNATIVE RETENTION CRITERIA FOR A SUBURBAN DEVELOPMENT. THE DESIGN CRITERIA FOR THIS PROJECT IS IDENTIFIED TO FALL WITHIN THE ALTERNATIVE RETENTION CRITERIA FOR A SUBURBAN DEVELOPMENT.

REQUIRED VOLUME RETENTION VOLUME, C.F.
 = RAINFALL DEPTH 0.9 IN. * AREA
 = RETENTION COEFFICIENT, 0.95 * VOLUME
 = (0.9 IN. / 12) * 0.95 * 96,856 S.F. = 6,808 C.F.
 SPECIFIC TO THE LOCATION OF THIS SITE IS AN EXISTING STORM DRAIN COLLECTION SYSTEM THAT PROVIDES A SUBURBAN DESIGN CRITERIA AS PART OF THE TOWN LAKE INFRASTRUCTURE IMPROVEMENTS. THIS PROJECT IS IDENTIFIED TO ACCOMMODATE THE DRAINAGE REQUIREMENT FROM THE VILLAS AT SOUTH BANK SITE.

VICINITY MAP
 SCALE: 1/8" = 100'





1 SHADOW STUDY - JUNE 21, 8:00 AM
SCALE: 1" = 100'-0"



2 SHADOW STUDY - JUNE 21, 12:00 PM
SCALE: 1" = 100'-0"



3 SHADOW STUDY - JUNE 21, 5:00 PM
SCALE: 1" = 100'-0"



4 SHADOW STUDY - DECEMBER 21, 9:00 AM
SCALE: 1" = 100'-0"



5 SHADOW STUDY - DECEMBER 21, 12:00 PM
SCALE: 1" = 100'-0"



6 SHADOW STUDY - DECEMBER 21, 4:00 PM
SCALE: 1" = 100'-0"



PROJECT NO.:
SHEET NO.:
DATE: 11/21/18
DRAWN BY: [Name]
CHECKED BY: [Name]
SCALE: AS SHOWN
DATE: 11/21/18
TIME: 4:20:00 PM